

# WESTWARD PARTS

S E R V I C E S L T D

**SPRAYER**

**PARTS**

**CATALOGUE**

Call the Parts Professionals...

**Red Deer, AB**  
Phone (403) 347-2200  
Fax 1-800-661-4508

**Regina, SK**  
Phone (306) 721-2113  
Fax 1-800-721-2977

**Winnipeg, MB**  
Phone (204) 697-2444  
Fax 1-800-257-8338

*Representing*



*Spraying Systems Co.*

**TeeJet®**

**Hypro®**

**COMBO-JET®**

**DELAVAN**

**SHURflo**

**TEXAS  
INDUSTRIAL  
REMCOR, INC.**



*and more!*



## **Welcome to the Westward Parts Sprayer Parts Catalogue**

This catalogue is presented in Adobe Acrobat format. This format allows a number of enhancements over traditional paper version of the catalogue including quicker navigation, information supplements, and updated information.

### **How to use this catalogue**

We assume you have some understanding of the navigation tools used by Adobe Acrobat Reader. If not, please review the Help files supplied by the application.

#### **Finding Products by Part Type**

1. Locate the appropriate catalogue section listed in the left hand column of bookmarks and click once to move to that section.
2. Click the appropriate part type from the index to move to that listing.

#### **Finding Products By Part Number**

1. Click the binoculars at the top of the page.
2. Enter the part number or product description you wish to find.

### **How to Order**

Once you've located the information for the desired product, there are three ways to order the product:

1. Call one of our knowledgeable customer service representatives at the following numbers:

(403) 347-2200

(306) 721-2113

(204) 697-2444

2. Fax your purchase order to Westward Parts at  
1-800-661-4508 (AB)  
1-800-721-2977 (SK) or  
1-800-257-8338 (MB).

3. Mail your purchase order to:

Westward Parts Services Ltd., 6517 - 67 Street, Red Deer, AB T4P 1A3





## FAX

BC, AB, NWT  
1-800-661-4508

SK  
1-800-821-2977

MB, ON, Maritimes  
1-800-257-8338  
24 Hours A Day



## PHONE

BC, AB, NWT  
(403) 347-2200

SK  
(306) 721-2113

MB, ON, Maritimes  
(204) 697-2444  
Mon. - Fri. 8:00am - 5:00pm

## MAIL

Mail your completed form to any of:



Westward Parts Services Ltd.  
6517 67 Street  
Red Deer, Alberta T4P 1A3



Westward Parts Services Ltd.  
201 Henderson Drive  
Regina, Saskatchewan S4N 7E2



Westward Parts Services Ltd.  
1435 St. James Street  
Winnipeg, Manitoba R3H 0W9

## Shipping

DHL Courier will be used as the common carrier in most instances. Items exceeding size and weight limitations of DHL will be shipped freight collect by commercial truck line. DHL air is available for VISA, Master Card, and American Express orders. Call for rates. Prepaid \$750 value ground shipping applies to standard parts orders only. **Any item of excessive size and weight may have additional shipping charges. ALL items unable to be boxed will have an additional \$5.00 charge added in the shipping. DHL delivers to physical addresses ONLY.**

## Returns

If you are not completely satisfied, please return merchandise PREPAID within 30 days. All merchandise to be returned must have a **RETURN AUTHORIZATION NUMBER** from Westward Parts. Please write, fax, or phone and tell us what you want to return and why you want to return it. You will be issued a Return Authorization Number. Please include a **copy of your invoice/packing slip** and note the Return Authorization Number on the invoice/packing slip.

**Returns** must be in good resaleable condition (excluding defective items). Proper refund will be issued after merchandise has been received. A **15% restocking charge** will be made on all returns for reasons other than shipping error on our part or defective merchandise.

## Prices & Errors

### **Prices are Subject to Change Without Notice**

**Errors:** We are only human and we do make mistakes. Although we have tried hard to correct all items, we apologize for any errors. We welcome your comments and suggestions.

**Out Of Stock Items:** It is our goal to ship all orders promptly as we receive them. Not all items pictured in our catalogue are stocked. Sometimes due to heavy demands or supply problems, certain items must be back-ordered. We will make every effort to ship your order within thirty days or refund your money.

**Parts:** We offer **High Quality Replacement Parts** equal to or superior to Original Equipment Manufacturer (OEM). OEM part numbers are used for reference only. **We do NOT offer any used sprayer parts.**

# **Ask About Our Extensive Line Of Estate Sprayers!**

**I N D E X**

**ACCESSORIES**

ShurFlo ..... 1-78 to 1-80

**CENTRIFUGAL PUMPS**

Ace (parts only) (GE 100) ..... 1-22  
Banjo ..... 1-20, 1-21

**CENTRIFUGAL ELECTRIC MOTOR DRIVEN PUMPS**

Ace ..... 1-37 to 1-40  
Banjo ..... 1-20, 1-21  
Hypro ..... 1-47, 1-48

**CENTRIFUGAL FRAME MOUNT PUMP**

Ace ..... 1-37 to 1-42  
Hypro ..... 1-47, 1-48

**CENTRIFUGAL GAS ENGINE DRIVEN PUMPS**

Ace ..... 1-37 to 1-42  
Ace (parts only) (GE100) ..... 1-22  
Banjo ..... 1-20, 1-21  
Hypro ..... 1-47, 1-48  
Westward(Water Transfer) ..... 1-94

**CENTRIFUGAL HYDRAULIC DRIVEN PUMPS**

Ace ..... 1-29 to 1-36  
Delavan ..... 1-43  
Hypro ..... 1-44 to 1-46

**CENTRIFUGAL MAGNET CLUTCH PUMPS**

Ace ..... 1-41, 1-42  
Hypro ..... 1-47, 1-48

**CENTRIFUGAL PEDESTAL MOUNT PUMPS**

Ace ..... 1-37 to 1-42  
Banjo ..... 1-20, 1-21  
Hypro ..... 1-47, 1-48

**CENTRIFUGAL PTO DRIVEN PUMPS**

Ace ..... 1-25 to 1-28  
Hypro ..... 1-49, 1-50

**COUPLERS**

Pump Couplers ..... 1-96 to 1-99  
Quick Couplers ..... 1-96 to 1-99  
Shaft Couplings ..... 1-98

**DIAPHRAGM 12 VOLT PUMPS**

Flojet ..... 1-67 to 1-71  
ShurFlo ..... 1-72 to 1-82  
ShurFlo Parts ..... 1-81, 1-82

**DIAPHRAGM 110 VOLT PUMPS**

ShurFlo ..... 1-75, 1-76

**DIAPHRAGM AIR DRIVEN PUMPS**

ShurFlo ..... 1-76  
FloJet ..... 1-69

**DIAPHRAGM PTO DRIVEN PUMPS**

Hypro ..... 1-52 to 1-66

**ELECTRIC DRILL PUMPS**

ShurFlo ..... 1-79

**FLOW LIMITER VALVE**

..... 1-36

**FOOT VALVES & STRAINERS**

..... 1-95

**HYDRAULIC FLOW LIMITER VALVE**

..... 1-36

**IMPELLER PUMPS**

ShurFlo ..... 1-78, 1-79

**OIL CHANGE SYSTEM 12 VOLT**

ShurFlo ..... 1-79

**PISTON PUMPS**

Hypro ..... 1-17 to 1-19

**PRESSURE WASHER PUMPS**

Accessories (General, Inter) ..... 1-88  
Accessories (Westward) ..... 1-93  
Comet Pump ..... 1-92, 1-93  
General Pump ..... 1-88 to 1-91  
Inter Pump ..... 1-88 to 1-91  
Westward ..... 1-94

**PROPORTIONATING PUMPS**

ShurFlo ..... 1-74

**PUMPS**

Pump Drive Specifications ..... 1-2  
Pumps Roller Delavan ..... 1-3 to 1-8  
Pumps Roller Hypro ..... 1-9 to 1-16  
Pumps Piston Hypro ..... 1-17 to 1-19  
Pumps Centrifugal Banjo ..... 1-20, 1-21  
Pumps Roller Ace ..... 1-23, 1-24  
Pumps Centrifugal Westward (Water Transfer) .. 1-94  
Pumps Centrifugal Ace ..... 1-25 to 1-42

**I N D E X**

**PUMPS (CONTINUED)**

Pumps Centrifugal Delavan ..... 1-43  
 Pumps Centrifugal Hypro ..... 1-44 to 1-50  
 Pumps Turbine Delavan ..... 1-51  
 Pumps Diaphragm Hypro ..... 1-52 to 1-66  
 Pumps Diaphragm 12 Volt FloJet ..... 1-67 to 1-71  
 Pumps Diaphragm 12 Volt ShurFlo ..... 1-72 to 1-82  
 Pumps Diaphragm Air Operated ..... 1-69, 1-76  
 Pumps Sump and Sewage ..... 1-83 to 1-87  
 Pumps High Pressure ..... 1-88 to 1-93  
 Pumps Pressure Washer General and Inter ..... 1-88 to 1-91  
 Pumps Pressure Washer Comet ..... 1-92, 1-93

**ROLLER PUMPS**

Ace ..... 1-23, 1-24  
 Delavan ..... 1-3 to 1-8

Hypro ..... 1-9 to 1-16

**ROLLER PUMPS 12 VOLT**

Delavan ..... 1-71

**SUBMERSIBLE PUMP 24 VOLT**

ShurFlo ..... 1-78

**SUMP & SEWAGE PUMPS**

Monarch ..... 1-83 to 1-87

**TURBINE PUMPS**

Delavan ..... 1-51

# Sprayer Parts

©2003 04/03

**Pump Drives**

How a pump is to be driven is often a primary consideration in selecting the proper type of pump. If the power source has already been determined, the following chart can be of further help in selecting the type of pump that is best suited to your needs.

**PUMP SHAFT ROTATION**

With many pumps, you need to specify which direction the shaft rotates ...either clockwise (CW) or counter clockwise (CCW). Rules on shaft rotation are as follows:

**RULE #1 "Eyes on the end"**

Always view the rotation when you're facing the end of the drive shaft. If it turns clockwise, it's a clockwise shaft. Always use this rule for determining rotation of the pump shaft and for the power source shaft (PTO, for example). Once you've determined the rotation of the power source shaft, remember rule #2:

**RULE #2 "Opposites attract"**

A clockwise (CW) rotating PTO shaft will require a counterclockwise (CCW) rotating pump shaft, and vice versa. All shaft rotation references in this catalog are based on these two rules.

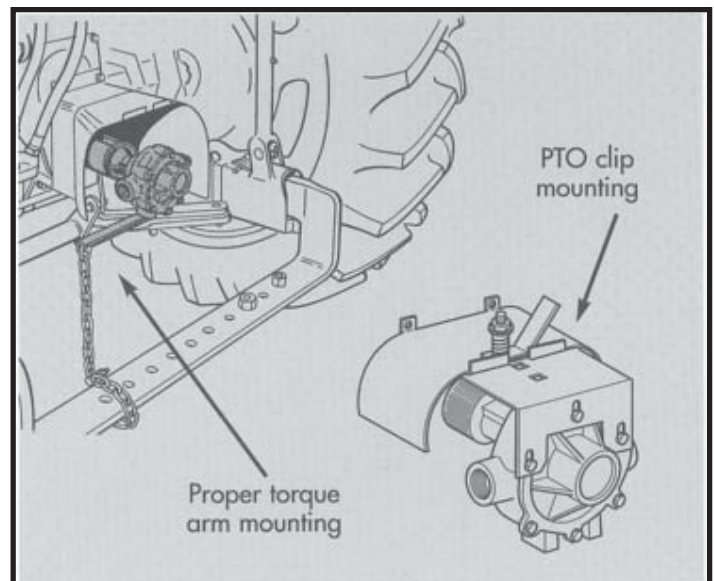
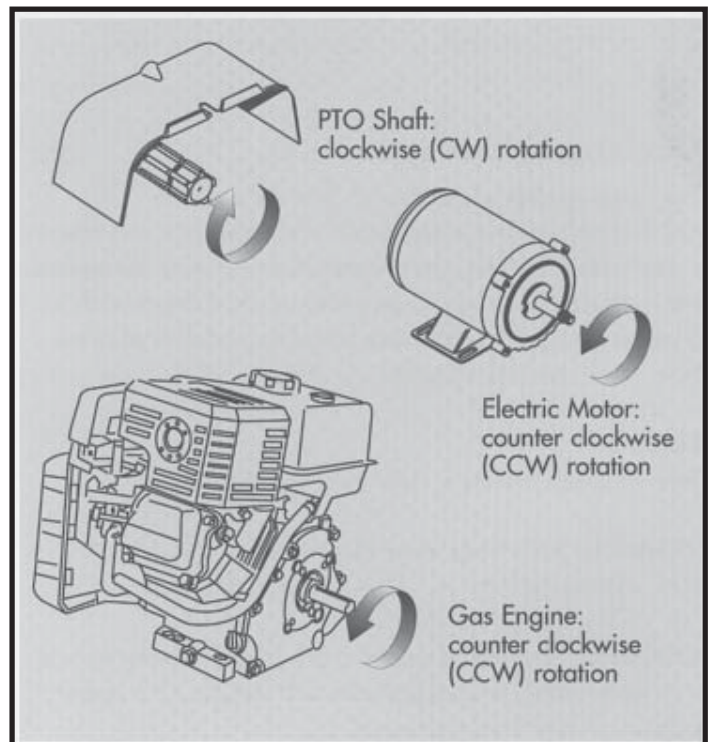
**PTO direct-mount (Torque Bar & Chain)**

Location of PTO driven pumps and pump drive units can have a significant effect on pump life. Mounting the pump directly to the PTO is always a good choice. Even though installation is relatively easy, use caution to insure the shaft does not get bent or damaged. Always use a quality, properly secured coupler and provide adequate support for the pump itself in order to withstand the extreme bouncing and vibration the system must endure. PTO mounting shields should always be used for maximum safety and protection.

Part No.	Description
70884	Torque Bar & Chain
75179	PTO Clip Mounting

You can use these pump types:

If your power source is:		Roller	Centrifugal	Turbine	Diaphragm	Piston
540 rpm PTO	direct coupled through gear drive: through belt/pulley:	✓	✓ ✓		✓	✓
1000 rpm PTO	direct coupled through gear drive: through belt/pulley	✓	✓ ✓	✓		
Hydraulic Motor			✓			
12 Volt DC Motor		✓				
Gas Motor	direct coupled through gear reduct: through belt/pulley	✓ ✓ ✓	✓ ✓		✓ ✓	✓ ✓
Electric Motor	direct coupled through belt/pulley	✓ ✓	✓ ✓		✓	✓





**Stronger Than Steel, Tougher Than Roundup®**

Lasts up to ten times longer than cast iron pumps.

Features:

- ◆ Special alloy body and end plate
- ◆ Stainless steel rotor, bearings and shaft
- ◆ Glass-filled polypropylene rollers
- ◆ Viton seals (standard)
- ◆ Available in reverse rotation



**Diamond Series™ Roller Pumps**

JOIN DELAVAN'S CAST IRON AND NI-RESIST PUMP FAMILY TO GIVE YOU LONGER PUMP LIFE WITH HARSH CHEMICALS.

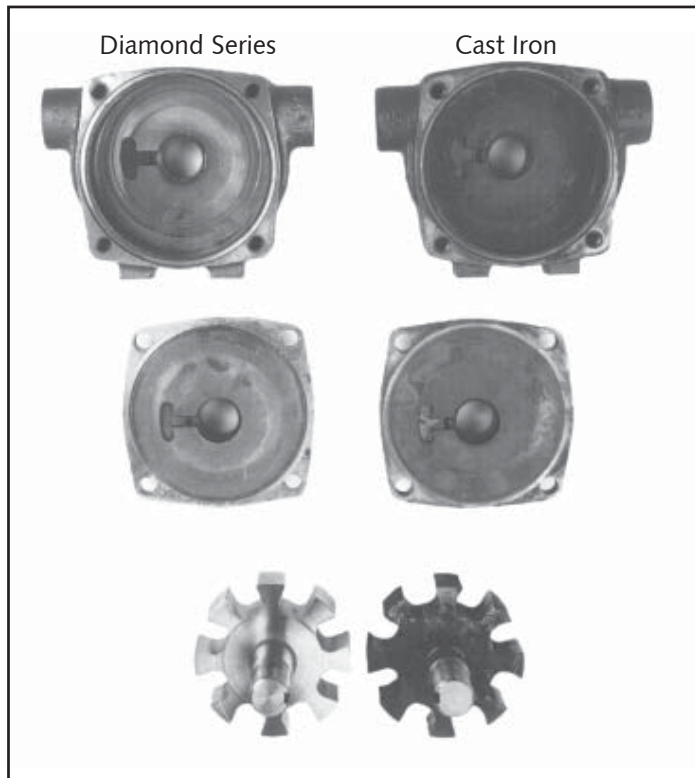
The following test was conducted on a conventional Cast Iron 8 roller pump, and an 8 roller Diamond Series™ pump using a rate of two times the recommended rate of Roundup® mixed with water.

The pumps were running side by side at 1000 RPM's and 40 PSI, and pumping from the same tank mixture.

The pumps ran 4 hours and then soaked in the solution for 24 hours. They then ran continuous with the flow being checked every 24 hours, until the Cast Iron pump lost 50% of it's flow. The Diamond Series™ pump lasted 10 times longer and was still in like new condition!

**WARNING: DO NOT RUN PUMP DRY.  
FLUSH WITH ANTIFREEZE AFTER USE.**

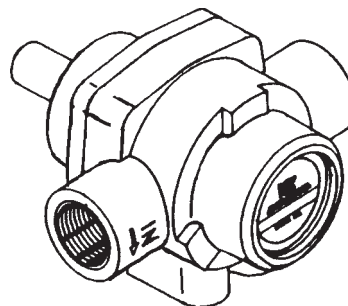
**THE BEST CHEMICAL  
RESISTANT PUMP THAT  
MONEY CAN BUY!**



Pump comparison after a usage rate of 1000 RPM's at 40 PSI with a Roundup®/water mixture twice the recommended rate.

**Delavan 4 Roller Pump**

PART NO.	REPLACES	REPLACES OLD	DESCRIPTION
70000	4400C	X44-5111	4 roller side port pump
70003	4400N	X44-6111	Ni-resist pump
70005	4400D	X44-7111	Diamond Series Pump
70260	4401C-M12	50098-1	12 volt 4 roller pump



**SPECIFICATIONS**

- ◆ For direct electric motor drive or belt and pulley drive at a speed of 1800 rpm, delivers up to 6.5 gpm. Minimum size electric motor: 1 ¼ horsepower.
- ◆ For direct gas engine drive at speeds up to 2600 rpm, delivers up to 9.2 gpm.
- ◆ Pressure to 150 psi, 1000 kPa
- ◆ Speeds of 1800/2600 rpm
- ◆ Capacity to 9.2 gpm at 2600 rpm
- ◆ ¾" ports
- ◆ Max. Recommended Pressure: 150 psi (1000 kPa)
- ◆ Max. Recommended Temperature: 120°F (50° C)
- ◆ Max. Recommended Motor Speed: 2600 rpm

**REPAIR KIT FOR 4 ROLLER PUMP**

PART NO.	REPLACES	DESCRIPTION
70600	48631-1	4 roller pump repair kit 44-4000RK

PART NO.	REPLACES	DESCRIPTION	QTY/KIT
70800	48234	Roller, Polypropylene, ½" dia.	4
70801	20468	Lip Seal, Fluorocarbon (Viton)	2
70802	31350-142	Seal Ring	1

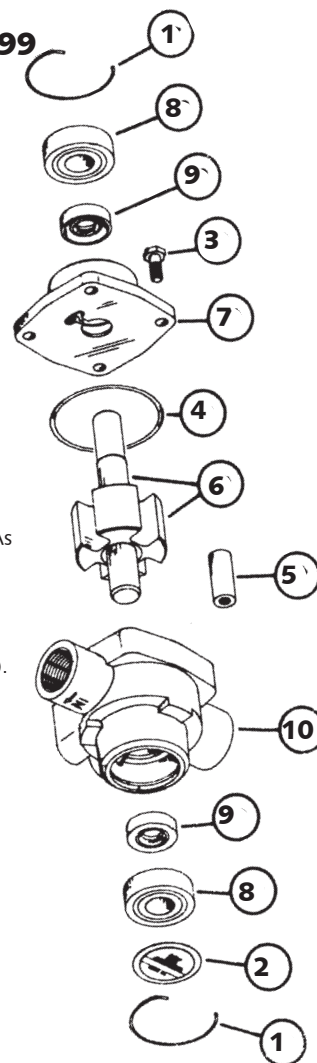
**REPLACEMENT PARTS FOR 4 ROLLER PUMP**

REF.	PART NO.	REPLACES	DESCRIPTION	QTY. REQ.
1	70803	15070	Snap ring	2
2	70804	48237	Nameplate	1
3	70805	48236	Cap screw	4
4	70802	31350-142	Seal ring, Buna-N	1
5	70800	48234	Roller, Polypropylene, ½"	4
6	70806	31661-14	5/8" stainless steel shaft/cast iron rotor	1
7	70807	48231	End plate, cast iron	1
8	70808	15072	Ball bearing	2
9	70801	20468	Lip seal, Viton (Fluorocarbon compound)	2
10	70809	48229	Pump body, cast iron	1

**5/8" Dia. Shaft**

**Shaft Couplings (Series 2738)**

See Page 96-99



**FLOW RATES AND HORSEPOWER REQUIREMENTS FOR 4 ROLLER PUMP**

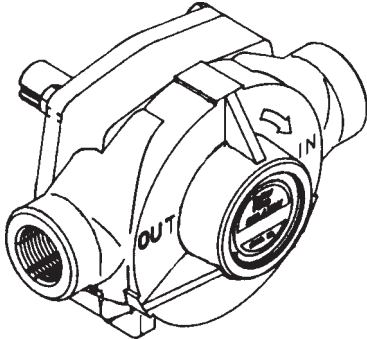
PRESSURE	1800 RPM		2200 RPM		2600 RPM	
	GPM	HP	GPM	HP	GPM	HP
0 psi	6.5	.12	7.7	.15	9.2	.19
25 psi	5.4	.24	6.7	.31	8.4	.36
50 psi	4.7	.35	5.9	.42	7.7	.54
75 psi	4.0	.43	5.3	.54	7.1	.70
100 psi	3.5	.50	4.8	.65	6.7	.84
125 psi	3.0	.55	4.3	.75	6.3	1.02
150 psi	2.6	.60	3.9	.85	5.9	1.17

**Note:** Horsepower listed is for electric motor drives. For gas engine drives, follow gas engine manufacturer's recommendations. (As an estimate for gas engines, double the horsepower requirements for electric motors listed).

**FLOW RATES AND HORSEPOWER REQUIREMENTS FOR 4 ROLLER PUMP**

PRESSURE	1800 RPM		2200 RPM		2600 RPM	
	L/MIN	KW	L/MIN	KW	L/MIN	KW
0 kPa	24.5	.09	19.5	.11	35.0	.14
100 kPa	22.0	.14	27.0	.18	32.8	.22
200 kPa	20.0	.19	24.5	.24	31.2	.29
300 kPa	18.0	.24	23.1	.29	29.2	.37
500 kPa	15.5	.31	20.5	.39	27.5	.51
600 kPa	14.3	.34	19.2	.44	26.5	.57
700 kPa	13.3	.37	18.0	.49	25.5	.64

**Delavan 5 Roller Pump**



**SPECIFICATIONS**

- ◆ For 540 and 1000 rpm PTO driven applications.
- ◆ Delivers up to 45 gpm at 1000 rpm and 0 psi.

**FEATURES**

- ◆ Body & endplate - cast iron.
- ◆ Ball bearings - heavy-duty shielded bearings support shaft at both ends. These sealed bearings are lubricated at the factory for the life of the pump.
- ◆ Shaft 15/16" dia., 416 stainless steel
- ◆ Rotor - cast iron
- ◆ Rollers - 1" polypropylene
- ◆ Seals - cartridge type, Viton lip seals
- ◆ Seal ring - Buna-N
- ◆ Ports - 1" NPT female side ports
- ◆ Rotation - normal PTO rotation - counter-clockwise rotation when facing the shaft end

PART NO.	REPLACES	REPLACES OLD	DESCRIPTION
70001	5500C	X55-5110	5 roller side port pump
70008	5500N	X55-6110	Ni-resist pump
70009	5500D	X55-7110	Diamond Series Pump
70884	33680		Torque Arm & Chain

**REPLACEMENT PARTS FOR 5 ROLLER PUMP**

REF.	PART NO.	REPLACES	DESCRIPTION	QTY. REQ.
1	70813	15334	Snap ring	2
2	70814	48255	Nameplate	1
3	70815	15341	Cap screw	4
4	70812	48252	Seal ring, Buna-N	1
5	70810	48253	Roller, Polypropylene, 1"	5
6	70816	31661-15	15/16" stainless steel shaft/cast iron rotor	1
7	70817	48248-1	End plate, cast iron	1
8	71032	16228	Ball bearing	2
9	70861	47927	Lip seal, Viton (Fluorocarbon compound)	2
10	70819	48246-1	Pump body, cast iron	1

**REPAIR KIT FOR 5 ROLLER PUMP**

PART NO.	REPLACES	DESCRIPTION
70601	48632-1	5 roller pump repair kit 55-1700RK

PART NO.	REPLACES	DESCRIPTION	QTY./KIT
70810	48253	Roller, Polypropylene, 1" dia.	5
70861	47927	Lip Seal, Viton	2
70812	48252	Seal Ring	1
70885	22059	Old Style Roller 3/4"	

**FLOW RATES AND KILOWATT REQUIREMENTS FOR 5 ROLLER PUMP**

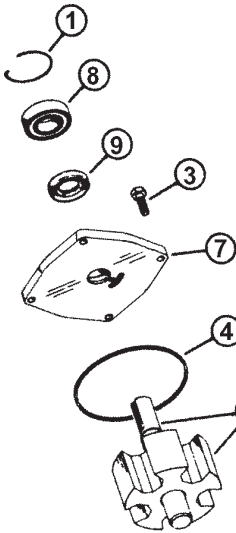
PRESSURE RPM	0 KPA		200 KPA		500 KPA		700 KPA		1000 KPA	
	L/MIN	KW	L/MIN	KW	L/MIN	KW	L/MIN	KW	L/MIN	KW
450*	79	.13	70	.47	60	.99	58	1.31	48	1.68
540*	95	.20	83	.58	75	1.15	70	1.53	64	1.99
650*	105	.29	105	.75	95	1.40	90	1.82	85	2.48
750*	126	.37	122	.88	110	1.61	105	2.07	95	2.89
850*	151	.59	141	1.08	125	1.80	118	2.27	114	3.31
1000**	173	1.27	168	1.80	155	2.58	148	3.09	136	3.94

**Note:** To achieve rated capacity 2.5 cm suction and pressure hose should be used.

**FLOW RATES AND HORSEPOWER REQUIREMENTS FOR 5 ROLLER PUMP**

PRESSURE RPM	0 PSI		50 PSI		100 PSI		150 PSI		200 PSI	
	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
450*	20.8	.18	16.4	.98	14.4	1.74	11.4	2.31	7.5	2.71
540*	25.1	.27	20.5	1.16	17.8	2.03	15.4	2.74	12.2	3.44
650*	30.4	.39	25.7	1.45	22.6	2.41	20.3	3.42	17.3	4.26
750*	34.7	.49	30.7	1.68	26.6	2.73	24.4	4.00	22.0	5.11
850*	39.7	.79	35.1	1.93	31.0	3.00	28.1	4.60	26.2	5.95
1000**	46.5	1.62	42.5	2.93	38.5	4.11	35.1	5.42	-	-

**Note:** To achieve rated capacity 1" suction and pressure hose should be used.

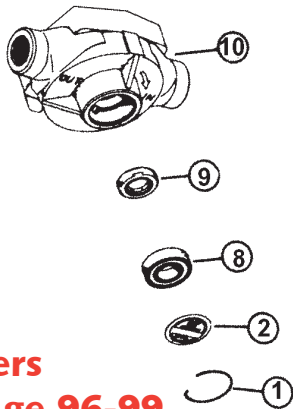


**\*For PTO Speeds below 850 RPM:**  
Pressures to 200 psi (1400 kPa) are recommended.

**\*\*For PTO Speeds over 850 RPM:**  
Max. Recommended Pressure:  
-for continuous duty is 100 psi (700 kPa)  
-for intermittent duty is 150 psi (1050 kPa)

Max. Recommended temp  
120° F (50° C)

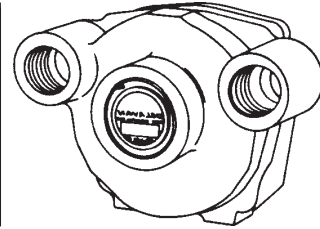
Max. Recommended PTO speed: 1000 rpm



**Couplers**  
**See Page 96-99**

**Delavan 6 Roller Pump**

PART NO.	REPLACES	REPLACES OLD	DESCRIPTION
70002	6600C-R	XX6-5111	6 roller side port- reverse rotation pump
70004	6601C	X66-5110	6 roller back port pump
70011	6600N	XX6-6110	6 roller side port Ni-resist pump
70012	6600D	XX6-7110	6 roller side port Diamond Series pump
70020	6600C	XX6-5110	6 roller side port pump
70884	33680		Torque Arm & Chain



**SPECIFICATIONS**

- ◆ For 540 and 1000 rpm PTO driven applications.
- ◆ Delivers up to 19.5 gpm
- ◆ Pressures to 300 psi

**FEATURES**

- ◆ Body & endplate - cast iron.
- ◆ Ball bearings - heavy-duty shielded bearings support shaft at both ends. These sealed bearings are lubricated at the factory for the life of the pump.

- ◆ Shaft 5/8" dia., 416 stainless steel
- ◆ Rotor - cast iron
- ◆ Rollers - 11/16" polypropylene
- ◆ Seals - cartridge type, Viton lip seals
- ◆ Seal ring - Buna-N
- ◆ Seal ring - Buna-N
- ◆ 3/4" ports
- ◆ Max. Recommended Pressure: 300 psi (2000 kPa)
- ◆ Max. Recommended Temperature: 120° F (50° C)
- ◆ Max. Recommended Motor Speed: 1000 rpm

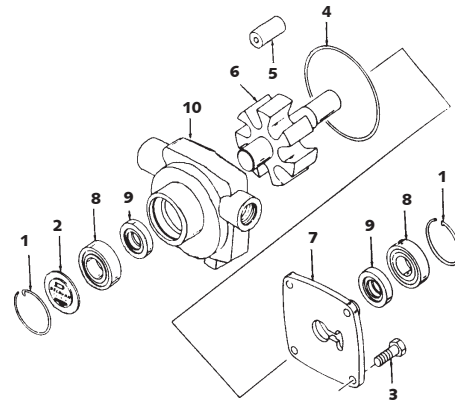
**REPLACEMENT PARTS FOR 6 ROLLER PUMP**

REF.	PART NO.	REPLACES	DESCRIPTION	QTY. REQ.
1	70803	15070	Snap ring	2
2	70887	46210	Nameplate	1
3	70822	15077	Cap screw	4
4	70821	24819	Seal ring	1
5	70820	19341	Roller, Polypropylene, 11/16"	6
6	70823	31661-8	Stainless steel shaft/powdered metal rotor	1
7	70824	31664-1	End plate, cast iron	1
8	70808	15072	Ball bearing	2
9	70801	20468	Lip seal, Viton	2
10	70825	24817	Pump body Cast Iron	1

**REPAIR KIT FOR 6 ROLLER PUMP**

PART NO.	REPLACES	DESCRIPTION
70602	48394-1	6 roller pump repair kit 66-6500RK
70613	18756	6 roller pump repair kit old style 11/16" rollers
70615	25227	6 roller pump repair kit old style 3/4" rollers

PART NO.	REPLACES	DESCRIPTION	QTY./KIT
70820	19341	Roller, Polypropylene, 11/16"	6
70801	20468	Shaft Seal, Viton A	2
70821	24819	Seal Ring	1
70885	22059	Old Style 3/4" Roller	



**Couplers**

See Page 96-99

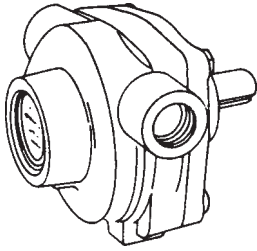
**ROLLER PUMP CAPACITIES AND INPUT POWER (BASED ON WATER)**

MODEL	SPEED (RPM)	0 KPA		200 KPA		500 KPA		700 KPA		1000KPA		1500 KPA		2000 KPA	
		L/MIN	KW	L/MIN	KW	L/MIN	KW	L/MIN	KW	L/MIN	KW	L/MIN	KW	L/MIN	KW
6 roller	450	34.0	.09	29.5	.22	22.5	.52	18.5	.71	14.7	.98	8.0	1.4	3.0	1.9
17.5 mm	540	40.9	.11	35.6	.29	29.1	.59	26.1	.80	22.0	1.21	15.9	1.8	10.2	2.3
	650	48.0	.13	44.5	.34	38.0	.76	34.5	1.0	30.0	1.4	23.0	2.0	17.5	2.6
	750	55.5	.16	52.0	.40	45.0	.86	42.0	1.2	37.5	1.7	31.5	2.3	25.5	3.0
	850	62.5	.19	58.0	.46	57.0	1.0	50.0	1.4	45.5	1.9	39.0	2.6	33.0	3.4
	1000	73.8	.22	70.0	.66	64.7	1.2	61.7	1.5	57.2	2.0	50.7	3.1	44.3	3.8

**ROLLER PUMP CAPACITIES AND INPUT POWER (BASED ON WATER)**

MODEL	SPEED (RPM)	0 PSI		25 PSI		50 PSI		100 PSI		200 PSI		250 PSI		300 PSI	
		GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
6 roller 11/16"	450	9.1	.12	7.8	.27	6.5	.50	5.0	.95	2.6	1.8	1.6	2.2	.7	2.6
	540	10.8	.15	9.6	.35	8.5	.60	6.9	1.1	4.6	2.2	3.4	2.7	2.4	3.3
	650	12.7	.17	11.6	.40	10.6	.73	9.1	1.3	6.7	2.5	5.5	3.1	4.5	3.7
	750	14.6	.20	13.7	.47	11.2	.86	11.2	1.6	8.6	2.9	7.6	3.5	6.5	4.2
	850	16.5	.25	15.5	.55	14.7	1.0	13.2	1.8	10.6	3.3	9.5	4.0	8.4	4.8
	1000	19.5	.30	18.6	.80	17.8	1.2	16.3	2.0	13.8	3.7	12.6	4.6	11.5	5.5

**Delavan 7 Roller Pump**



PART NO.	REPLACES	REPLACES OLD	DESCRIPTION
70006	7000C	X77-5110	7 roller side port pump
70007	7000C-R	X77-5111	7 roller side port - reverse rotation pump
70010	7000N	X77-6110	7 roller side port with Ni-resist housing & rotor
70015	7000D	X77-7110	7 roller side port Diamond series pump
70884	33680		Torque Arm & Chain

**REPLACEMENT PARTS FOR 7 ROLLER PUMP**

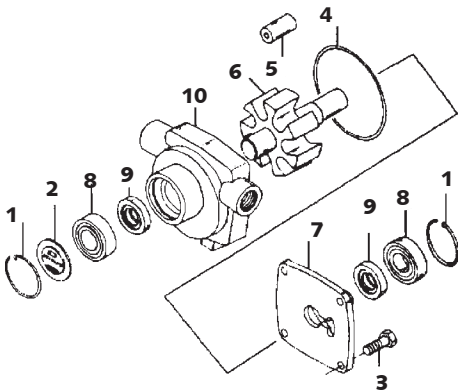
REF.	PART NO.	REPLACES	DESCRIPTION	QTY. REQ.
1	70813	15334	Snap ring	2
2	70828	46209	Nameplate	1
3	70815	15341	Cap screw	4
4	70827	24829	Seal ring	1
5	70820	19341	Roller, Polypropylene, 1 <sup>1</sup> / <sub>16</sub> "	7
6	70829	31661-10	Stainless steel shaft/powdered metal rotor	1
7	70831	31666-1	End plate, cast iron (77-51 )	1
7	70832	31666-2	End plate, Ni-resist (77-61 )	1
8	71032	16228	Ball bearing	2
9	70861	47927	Lip seal, Viton (77-5130, 5111, 6110, 6111, 6130)	1
9	70826	25203	Lip seal, Teflon	1
10	70833	24842-1	Pump body, cast iron (77-51 )	1
10	70834	24842-2	Pump body, Ni-resist (77-61 )	1

**SPECIFICATIONS**

- ◆ For 540 and 1000 rpm PTO driven applications.
- ◆ Delivers up to 22.5 gpm
- ◆ Pressures to 200 psi
- ◆ 15/16" shaft
- ◆ 3/4" ports
- ◆ Max. Recommended Pressure: 300 psi (2000 kPa)
- ◆ Max. Recommended Temperature: 120°F (50° C)
- ◆ Max. Recommended Motor Speed: 850 rpm

**Couplers**

See Page 96-99



**REPAIR KIT FOR 7 ROLLER PUMP**

PART NO.	REPLACES	DESCRIPTION
70603	48394-2	7 roller pump repair kit (Viton seals)70-7700RK
70604	48394-4	7 roller pump repair kit (Teflon seals)
70616	25228	7 roller pump Old style Repair Kit 3/4" Rollers

PART NO.	REPLACES	DESCRIPTION	QTY./KIT
70820	19341	Roller, Polypropylene, 1 <sup>1</sup> / <sub>16</sub> "	7
70826	25203	Shaft Seal, Teflon	2
70827	24829	Seal Ring	1
70861	47927	Shaft seal, Viton A	2
70885	22059	Old Style 3/4" roller	

**ROLLER PUMP CAPACITIES AND INPUT POWER (BASED ON WATER)**

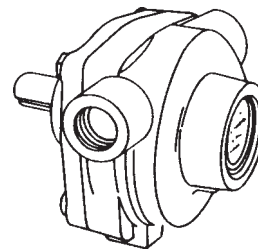
MODEL	SPEED (RPM)	0 KPA		200 KPA		500 KPA		700 KPA		1000KPA		1500 KPA	
		L/MIN	KW	L/MIN	KW	L/MIN	KW	L/MIN	KW	L/MIN	KW	L/MIN	KW
7 roller	450	45.4	.22	42.0	.37	37.1	.60	34.8	.86	31.7	1.16	27.6	1.53
17.5 mm	540	56.2	.26	52.6	.48	47.9	.78	45.4	.99	41.6	1.38	37.5	1.88
	650	66.3	.30	61.7	.53	58.3	.87	54.9	1.16	51.5	1.59	48.1	2.18
	750	75.7	.34	71.9	.62	67.4	.97	65.5	1.29	61.7	1.88	58.1	2.50
	850	85.2	.37	81.4	.67	77.6	1.07	75.0	1.44	71.6	2.09	66.8	2.80

**ROLLER PUMP CAPACITIES AND INPUT POWER (BASED ON WATER)**

MODEL	SPEED (RPM)	0 PSI		25 PSI		50 PSI		100 PSI		200 PSI	
		GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
7 roller 1 <sup>1</sup> / <sub>16</sub> "	450	12.0	.30	11.2	.50	10.4	.60	9.2	1.1	7.3	2.0
	540	15.0	.35	14.0	.60	13.2	.75	12.0	1.3	9.9	2.5
	650	17.5	.40	16.5	.70	15.8	.85	14.5	1.5	12.7	2.9
	750	20.0	.45	19.2	.80	18.4	1.00	17.2	1.7	15.2	3.3
	850	22.5	.50	21.5	.85	21.0	1.10	19.9	1.9	17.7	3.7

**D e l a v a n 8 R o l l e r P u m p**

PART NO.	REPLACES	REPLACES OLD	DESCRIPTION
70013	8800C	X88-5110	8 roller side port pump
70014	8800C-R	X88-5111	8 roller side port - reverse rotation pump
70016	8800N	X88-6110	8 roller side port with Ni-resist housing & rotor
70017	8800D	X88-7110	8 roller side port Diamond series pump
70884	33680		Torque Arm & Chain



**REPLACEMENT PARTS FOR 8 ROLLER PUMP**

REF.	PART NO.	REPLACES	DESCRIPTION	QTY. REQ.
1	70813	15334	Snap ring	2
2	70828	46209	Nameplate	1
3	70815	15341	Cap screw	4
4	70827	24829	Seal ring	1
5	70820	19341	Roller, Polypropylene, 11/16"	8
6	70835	31661-12	Stainless steel shaft/powdered metal rotor	1
7	70831	31666-1	End plate, cast iron (88-5110)	1
7	70832	31666-2	End plate, Ni-resist (88-6110)	1
8	71032	16228	Ball bearing	2
9	70861	47927	Lip seal, Viton	2
10	70837	24842-3	Pump body, cast iron (88-5110)	1
10	70838	24842-4	Pump body, Ni-resist (88-6110 )	1

**SPECIFICATIONS**

- ◆ For 540 and 1000 rpm PTO driven applications.
- ◆ Delivers up to 24 gpm
- ◆ Pressures to 300 psi
- ◆ 15/16" shaft
- ◆ 3/4" ports
- ◆ Max. Recommended Pressure: 300 psi (2000 kPa)
- ◆ Max. Recommended Temperature: 120°F (50° C)
- ◆ Max. Recommended Motor Speed: 1000 rpm

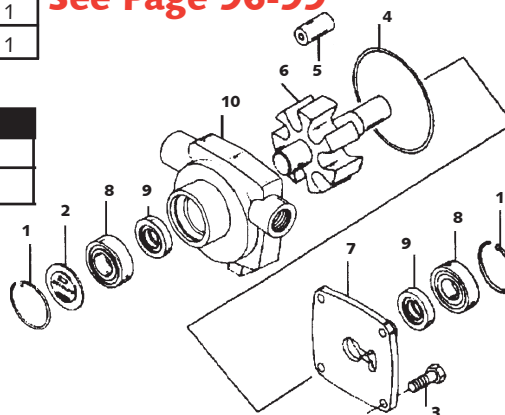
**Couplers**

See Page 96-99

**REPAIR KIT FOR 8 ROLLER PUMP**

PART NO.	REPLACES	DESCRIPTION
70605	48394-3	8 roller pump repair kit 88-7560RK
70614	18768	8 roller pump repair kit old style 11/16" rollers

PART NO.	REPLACES	DESCRIPTION	QTY/KIT
70820	19341	Roller, Polypropylene, 11/16"	8
70827	24829	Seal Ring	1
70861	47927	Shaft seal, Viton A	2
70885	22059	Old Style 3/4" roller	



**ROLLER PUMP CAPACITIES AND INPUT POWER (BASED ON WATER)**

MODEL	SPEED (RPM)	0 KPA		200 KPA		500 KPA		700 KPA		1000KPA		1500 KPA		2000 KPA	
		L/MIN	KW	L/MIN	KW	L/MIN	KW	L/MIN	KW	L/MIN	KW	L/MIN	KW	L/MIN	KW
8 roller	450	41.0	.13	36.5	.25	32.0	.53	29.5	.73	25.0	1.1	19.5	1.6	14.8	2.2
17.5 mm	540	49.2	.16	45.0	.34	40.1	.64	37.5	.84	33.3	1.2	27.2	1.9	23.1	2.5
	650	58.5	.18	55.5	.38	50.1	.79	47.5	1.1	43.0	1.5	37.5	2.3	33.0	2.9
	750	68.0	.21	64.0	.44	59.5	.94	57.0	1.3	52.5	1.8	47.0	2.6	43.0	3.4
	850	77.0	.26	73.5	.53	68.2	1.1	66.0	1.5	62.0	2.0	56.0	2.9	51.5	3.8
	1000	90.8	.32	87.4	.70	82.5	1.3	79.5	1.6	75.3	2.3	69.3	3.3	64.7	4.3

**ROLLER PUMP CAPACITIES AND INPUT POWER (BASED ON WATER)**

MODEL	SPEED (RPM)	0 PSI		25 PSI		50 PSI		100 PSI		200 PSI		250 PSI		300 PSI	
		GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
8 roller 11/16"	450	10.8	.17	9.7	.30	9.0	.50	7.8	.95	5.5	2.0	4.6	2.5	3.7	3.0
	540	13.0	.20	12.1	.40	11.3	.60	10.0	1.1	7.6	2.3	6.7	2.9	6.0	3.5
	650	15.6	.24	14.7	.45	13.8	.76	12.7	1.5	10.3	2.8	9.4	3.4	8.6	4.0
	750	18.0	.29	17.1	.51	16.3	.90	15.0	1.7	12.7	3.2	11.8	3.9	11.0	4.6
	850	20.3	.34	19.6	.63	18.8	1.1	17.5	2.0	15.1	3.6	14.2	4.4	13.5	5.2
	1000	24.0	.40	23.2	.85	22.4	1.3	21.0	2.3	18.7	4.0	17.8	5.0	17.0	6.0

**Hypro Silver Series XL Pumps and Super Rollers**

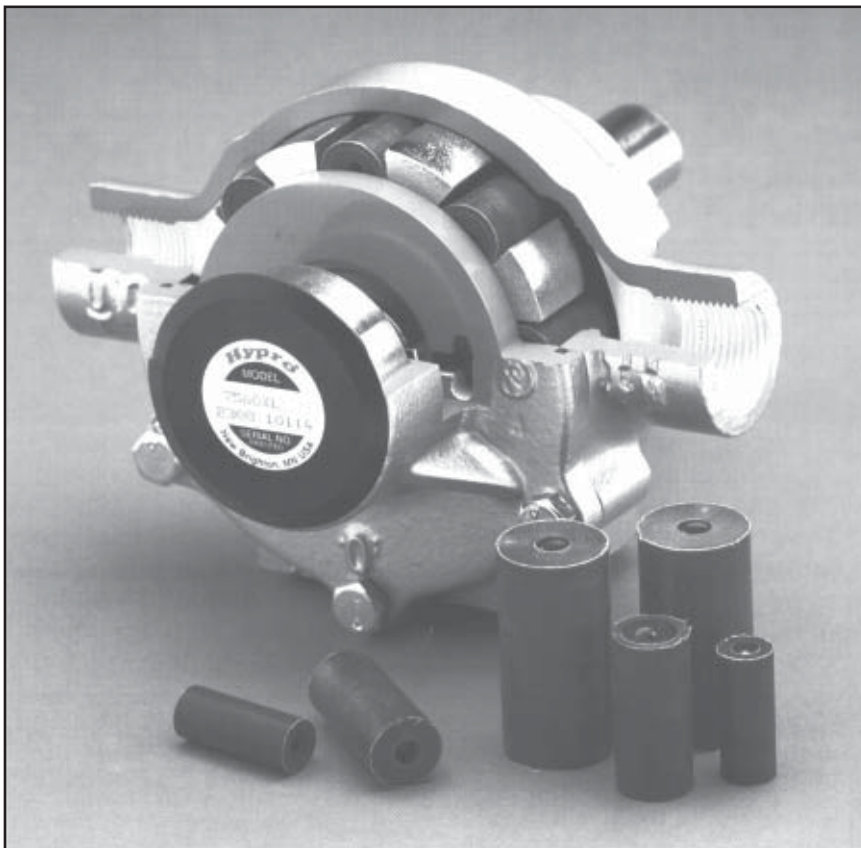
Hypro was the first manufacturer to offer an alloy that is harder, smoother and more resistant to wear and corrosion than standard casting materials used for sprayer pumps. This alloy has been appreciated for years in Hypro's **Silver Series XL™** roller pumps.

The material in Hypro's **Silver Series XL™** pumps provides maximum pump life. In tests using Roundup® herbicide, Hypro Silver Series XL™ roller pumps ran up to 10 times longer than standard cast iron roller pumps... and over 3 times longer than Ni-Resist roller pumps! Even after 1000 hours - long after the other pumps had failed- the **Silver Series XL™** pumps still met new pump performance specs!

Matched with Hypro's Super Rollers, these pumps provide superior resistance to wear and/or corrosion when handling today's powerful agricultural chemicals. (See below for details on Super Rollers).

**Hypro and your herbicide: A "Total Value" team.**

Today's lower chemical application rates give farmers important economic and environmental benefits. Those same benefits expand further with Hypro's longer running **Silver Series XL™** pumps. They are built to last longer and are completely repairable, so they are more economical. Plus, their consistent, precise, pump performance ensures greater overall spraying accuracy. That's good for the environment. For the best "total value", team up your herbicide with superior **Silver Series XL™** roller pumps.



**Super Rollers** are the result of two years of research, development and continuous testing. These dark blue colored rollers are made from a special combination of materials that provide the long life of polypropylene rollers and the chemical resistance of nylon rollers. Super rollers do not swell in water and maintain their performance when exposed to chemical carriers such as xylene. They are ideal for use with water-soluble chemicals and emulsifiable concentrates.

Super Rollers can be used for the vast majority of agricultural applications, and because they are versatile, there is usually no need to switch rollers or pumps. One caution— Super Rollers should not be used with acids. Hypro recommends using teflon or poly rollers or one of Hypro's poly centrifugal pumps.

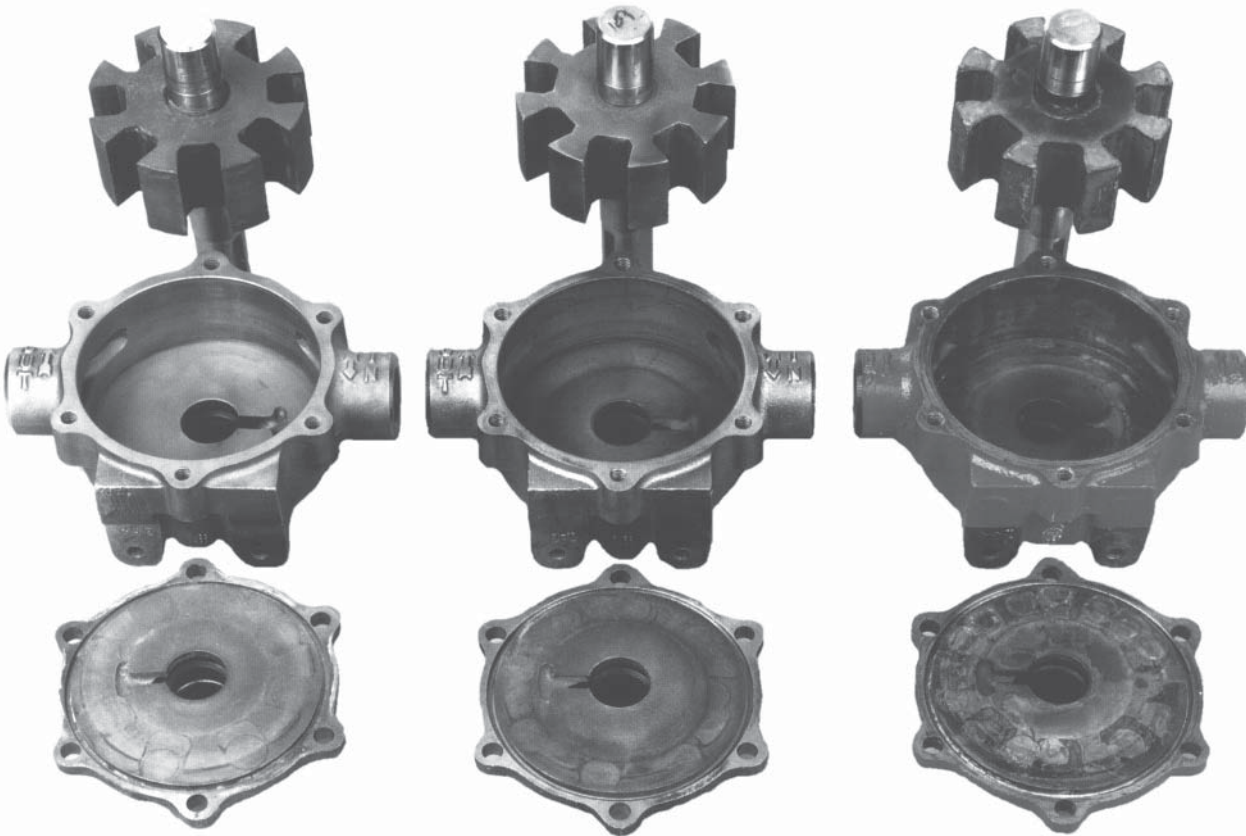
## Hypro Roller Pump Comparisons

**Herbicide Users**—Get up to 10 times longer pump life with Hypro **Silver Series XL™** Roller Pumps!

### Silver Series XL™

### Ni-Resist

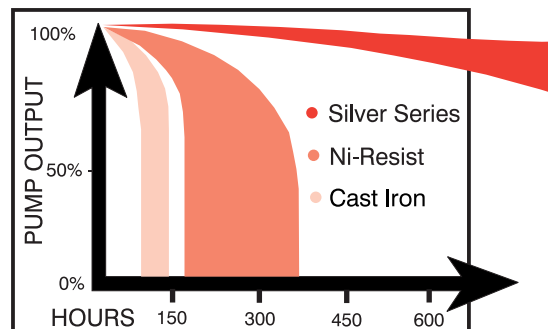
### Cast Iron



The three pumps shown above were photographed after being tested with a 30:1 mix of water and Roundup® herbicide. The Ni-Resist and cast iron indicate damage from pitting and corrosion, but the Silver Series is in like new condition after more than 1000 hours of use.

## Herbicide users get up to 10 times longer pump life!

- ◆ Cast iron pumps lasted to 140 hours before failure
- ◆ Ni-Resist pumps lasted to 332 hours before failure
- ◆ Silver Series pumps ran over 1000 hours and still met new pump specs!





**H y p r o 4 R o l l e r P u m p**

4001/4101



4101N-EH



PART NO.	REPLACES	DESCRIPTION
<b>Pumps operating up to 1800 rpm</b>		
70040	4001C	Cast iron pump 5/8" solid shaft
70041	4001N	Ni-resist pump 5/8" solid shaft
70073	4001XL	Silver Cast 5/8" solid shaft
70088	4001C-R	Cast iron pump 5/8" solid shaft, reverse rotation
70039	4101N-EH	12 volt Ni-resist 4 roller pump 1900 rpm
73928	2570-0013	12 volt motor for 70039

PART NO.	REPLACES	DESCRIPTION
<b>Pumps operating up to 2600 rpm</b>		
70042	4101C	Cast iron pump 5/8" solid shaft
70043	4101N	Ni-resist pump 5/8" solid shaft
70074	4101XL	Silver Cast 5/8" solid shaft
70089	4101N-H	Ni-resist pump 1/2" hollow shaft

Use series 4001/4101 as a "pressure" pump for spraying, atomizing or blending insecticides, herbicides, fumigants, etc., or as a transfer pump for water, brine, oils, solvents, and many chemicals, or as a circulating pump for lubricants, coolants, and rinsing solutions.

- Body, endplate and rotor:** Cast iron or Ni-resist
- Shaft:** 5/8" stainless steel
- Ports:** 3/4" NPT
- Horsepower:** .14 to 1.10
- Bearings:** Shielded ball type, factory lubricated
- Rollers:** Super standard polypropylene, nylon, teflon, or Buna-N optional
- Seals:** Viton Standard, Buna-N or Leather optional
- Series 4001, for electric motor drive:** Output to 9 gpm; pressure to 150 psi; speed to 1800 rpm, temperature to 140° F
- Series 4101, for gas engine drive:** Output to 7 gpm; pressure to 150 psi; speed to 2600 rpm; temperature to 140°F

LENGTH	WIDTH	HEIGHT	SHAFT HEIGHT	SHAFT DIAMETER	PORT NPT
5 11/32"	4 5/8"	3"	1 3/4"	5/8"	3/4"

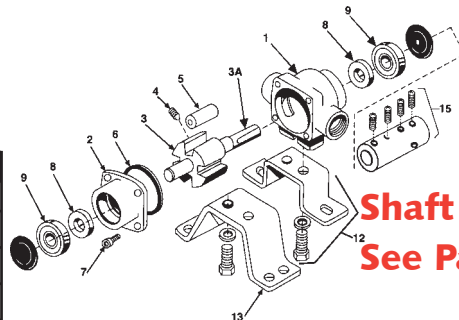
**REPLACEMENT PARTS FOR 4 ROLLER PUMP**

REF. NO.	PART NO.	REPLACES	DESCRIPTION	QTY. REQ.
1	71000	0100-4001C	Body (cast iron) for 4001 C pump	1
1	71001	0100-4001N	Body (Ni-resist) for 4001N pump	1
1	71002	0100-4101C	Body (Cast iron) for 4101C pump	1
1	71003	0100-4101N	Body (Ni-resist) for 4101N pump	1
1	73900	0100-4001X	Body (SilverCast) with std. seal (4001)	1
1	73901	0100-4101X	Body (SilverCast) with std. seal (4101)	1
2	71004	0200-4001C	Endplate (cast iron) for 4001C	1
2	71005	0200-4001N	Endplate (ni-resist) for 4001N	1
2	71006	0200-4101C	Endplate (cast iron) for 4101C	1
2	71007	0200-4101N	Endplate (Ni-resist) for 4101N	1
2	73902	0200-4001X	Endplate (SilverCast) with std. seal (4001)	1
2	73903	0200-4101X	Endplate (SilverCast) with std. seal (4101)	1
3	71008	0300-4001C	Rotor & shaft assy for 4001C	1
3	71009	0300-4001N	Rotor & shaft assy for 4001N	1
3	71010	0300-4101C	Rotor & shaft assy for 4101C	1
3	71011	0300-4101N	Rotor & shaft assy for 4101N	1
3	73904	0300-4001X	Rotor (SilverCast) & shaft assembly (4001)	1
3	73905	0300-4101X	Rotor (SilverCast) & shaft assembly (4101)	1
3A	71012	0550-6600	Shaft	1
4	71013	2230-0002	Rotor set screw	1
4	73906	2230-0016	Rotor set screw (SilverCast only)	1
5	71014	1002-0002	Polypropylene rollers	4
5	71015	1005-0002	Rollers (super) standard	4
5	71016	1001-0002	Buna-N rubber rollers (optional)	4
5	71017	1055-0002	Teflon rollers (optional)	4
6	71018	1720-0104	O-ring gasket for endplate	1
7	71019	2200-0018	Endplate screw	4
8	71020	2107-0002	Standard seal (Viton)	2
8	71021	2102-0001	Optional seal (Buna-N)	2
8	71022	2103-0001	Optional seal (leather)	2
9	71592	2000-0010	Ball bearing (sealed)	2
*	71024	1800-0001	Bearing retainer ring	1
12	71025	3420-0024	Base kit for mounting pump to electric motors w 3 1/2" shaft centerline	1
13	71026	3420-0025	Base kit for mounting pump to gas engines w/4 3/16" shaft centerline	1
13	71027	3420-0026	Base kit for replacing old style 4000 series pumps	1
15	71028	1320-0016	Adapter kit w 4 setscrews for gas engine	1
15	71029	1320-0024	Adapter kit w 4 setscrews for cub tractor drive	1

\*Not Shown

**REPAIR KIT FOR 4 ROLLER PUMP**

PART NO.	REPLACES	DESCRIPTION	QTY/KIT
70620	3430-0390	4 roller pump repair kit (super Rollers)	
70621	3430-0158	4 roller pump repair kit (polypropylene rollers)	
PART NO.	REPLACES	DESCRIPTION	QTY/KIT
71014	1002-0002	Roller, Polypropylene	4
71015	1005-0002	Roller, super	4
71018	1720-0104	O-ring gasket for end plate	1
71020	2107-0002	Viton seal	2



**Shaft Coupling**  
**See Page 96-99**

MODEL	SPEED (RPM)	0 PSI		25 PSI		50 PSI		75 PSI		100 PSI		125 PSI		150 PSI	
		GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
4001	1800	9.1	.14	8.5	.30	8.0	.46	7.6	.62	7.3	.78	7.0	.95	6.7	1.1
4101	2600	7.2	.16	6.9	.30	6.6	.46	6.4	.62	6.0	.76	5.7	.92	5.4	1.08

**H y p r o 5 R o l l e r P u m p**

**1700**



PART NO.	REPLACES	DESCRIPTION
70044	1700C	Cast iron pump
70045	1700N	Ni-resist pump
70072	1700CR	Cast iron pump, reverse rotation
70075	1700XL	Silver cast

LENGTH	WIDTH	HEIGHT	SHAFT HEIGHT	SHAFT DIAMETER	PORT NPT
7 23/32"	8 1/4"	6 7/32"	3 3/8"	15/16"	1"

The 1700 series handles a variety of liquids: water, herbicides, insecticides, emulsions, aromatic solvents, fertilizer and wettable powder. Use where moderate flow and pressure is desirable.

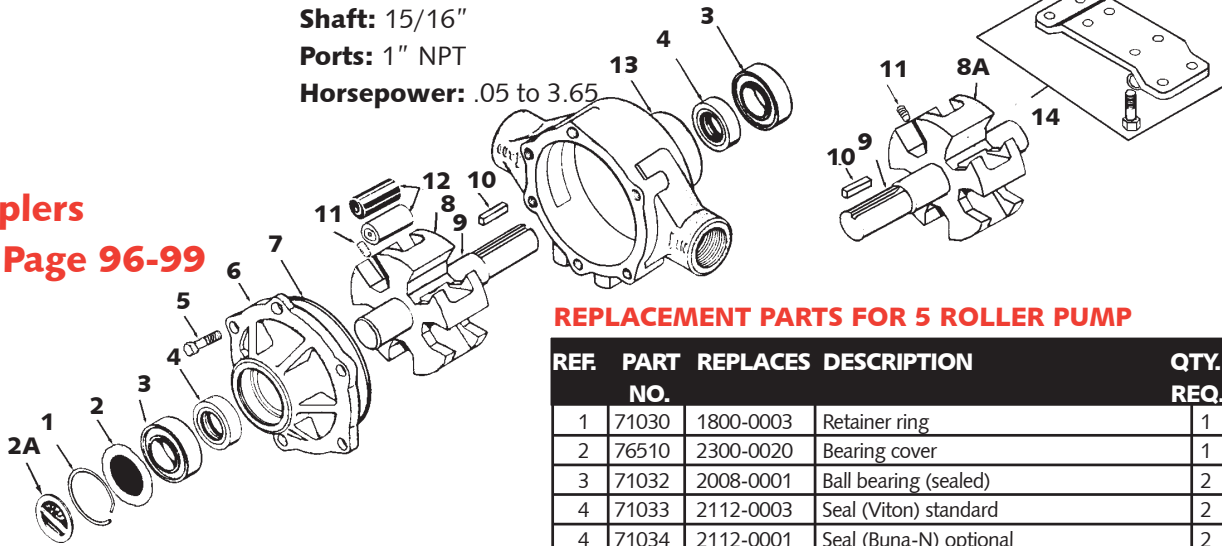
**Output:** 20.5 gpm at 50 psi

**Shaft:** 15/16"

**Ports:** 1" NPT

**Horsepower:** .05 to 3.65

**Couplers**  
See Page 96-99



**REPLACEMENT PARTS FOR 5 ROLLER PUMP**

REF.	PART NO.	REPLACES	DESCRIPTION	QTY. REQ.
1	71030	1800-0003	Retainer ring	1
2	76510	2300-0020	Bearing cover	1
3	71032	2008-0001	Ball bearing (sealed)	2
4	71033	2112-0003	Seal (Viton) standard	2
4	71034	2112-0001	Seal (Buna-N) optional	2
4	71035	2103-0002	Seal (leather) optional	2
5	71036	2210-0005	Bolts for end plate	6
6	71037	0200-1700C	End plate (cast iron) includes seal	1
6	71038	0200-1700N	End plate (Ni-resist) includes seal	1
6	73907	0200-1700X	End plate (SilverCast) with seal	1
7	71039	1720-0099	O-Ring gasket for end plate	1
8	71040	0300-1700C	Rotor (cast iron) with shaft	1
8	71041	0300-1700N	Rotor (Ni-resist) with shaft	1
8	73908	0300-1700X	Rotor (SilverCast) with shaft	1
8A	71042	0301-1700C	Rotor (cast iron) w/shaft (reverse rot.)	1
8A	71043	0301-1700N	Rotor (Ni-resist) w/shaft (reverse rot.)	1
9	71044	0500-1502	Solid shaft only	1
10	71045	1610-0005	Spline key	1
11	71046	2230-0018	Set screw only	1
11	73909	2230-0034	Set screw (Silvercast only)	1
12	71047	1002-0005	Roller (polypropylene)	5
12	71048	1005-0005	Roller, Super Standard	5
12	71049	1055-0005	Roller (Teflon) optional	5
13	71050	0100-1700C	Body (cast iron) includes seal	1
13	71051	0100-1700N	Body (Ni-resist) includes seal	1
13	73910	0100-1700X	Body (SilverCast) with seal	1
14	71052	3420-0010	Base kit (base and 4 bolts)	1

**REPAIR KIT FOR 5 ROLLER PUMP**

PART NO.	REPLACES	DESCRIPTION
70625	3430-0383	5 roller pump repair kit (super rollers)
70623	3430-0160	5 roller pump repair kit (polypropylene rollers)

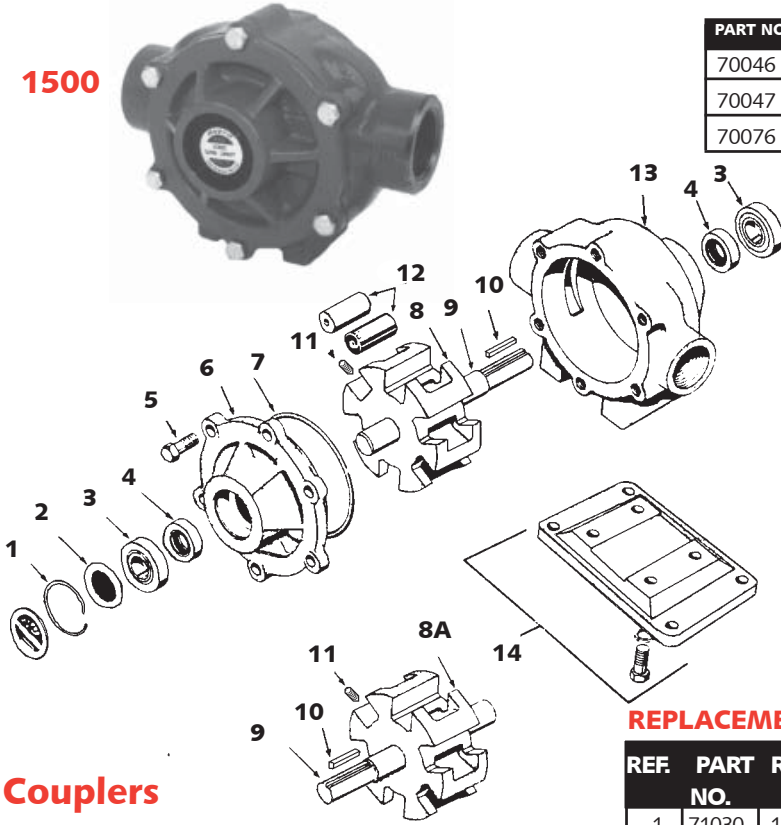
PART NO.	REPLACES	DESCRIPTION	QTY./KIT
71047	1005-0005	Roller, Super	5
71039	1720-0099	O-ring gasket for end plate	1
71033	2112-0003	Viton seal	2
71034	2112-0004	Buna-N seal (optional)	

**Output to 45 gpm - pressure to 200 psi**  
**Speed to 1000 rpm - temperature to 140°F**

MODEL	SPEED (RPM)	0 PSI		25 PSI		50 PSI		75 PSI		100 PSI	
		GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
1700	540	24.5	.13	20.5	.96	17.7	1.78	16.3	2.57	14.3	3.3

**H y p r o 6 R o l l e r P u m p**

**1500**



PART NO.	REPLACES	DESCRIPTION
70046	1502C	Cast iron pump
70047	1502N	Ni-resist pump
70076	1502XL	Silver cast

Series 1500 six roller pumps, with their large capacity and high pressure capability, can be used for fire fighting in addition to other roller pump applications. They can adapt to 1 3/8" or 1 3/4", 1000 rpm PTO shaft as well as 540 rpm. A large variety of chemicals can be used.

**Output:** 30 gpm at 540 rpm, 50 psi  
**Maximum Pressure:** 150 psi  
**Maximum speed:** 800 rpm  
**Shaft:** 1 5/16" **Ports:** 1 1/2" NPT  
**Horsepower:** .5 to 5.5

**Couplers**  
See Page 96-99

LENGTH	WIDTH	HEIGHT	SHAFT HEIGHT	SHAFT DIAMETER	PORT NPT
7 23/32"	8 3/4"	8 1/8"	5"	1 5/16"	1 1/2"

**REPAIR KIT FOR 6 ROLLER PUMP**

PART NO.	REPLACES	DESCRIPTION
70624	3430-0163	Repair kit (Poly rollers, Buna-N seals)
70625	3430-0383	Repair kit (Super rollers, Viton seals) 2 o-rings
70626	3430-0386	Repair kit (Super rollers, Viton seals) 1 o-ring
70627	3430-0387	Repair kit (super rollers, Buna-N seals)

PART NO.	REPLACES	DESCRIPTION	QTY/KIT
71034	2112-0001	Buna-N seal	2
71033	2112-0003	Viton seal (optional)	2
71183	1720-0003	O-Ring gasket	1

**Output to 62 gpm - pressure to 150 psi**  
**Speed to 1000 rpm - temperature to 140°F**

**REPLACEMENT PARTS FOR 6 ROLLER PUMP**

REF. NO.	PART NO.	REPLACES	DESCRIPTION	QTY. REQ.
1	71030	1800-0003	Retainer ring	1
2	76510	2300-0020	Bearing cover	1
3	71032	2008-0001	Ball bearing (sealed)	2
4	71034	2112-0001	Seal (Buna-N) standard	2
4	71033	2112-0003	Seal (Viton) optional	2
4	71035	2103-0002	Seal (leather) optional	2
5	71053	2210-0026	Bolts for end plate	6
6	71054	0200-1500C	End plate (cast iron) includes seal	1
6	71055	0200-1500N	End plate (Ni-resist) includes seal	1
6	73911	0200-1500X	End plate (SilverCast) with seal	1
7	71183	1720-0003	O-ring gasket for end plate	1
8	71056	0300-1502C	Rotor (cast iron) with shaft	1
8	71057	0300-1502N	Rotor (Ni-resist) with shaft	1
8	73912	0300-1502X	Rotor (SilverCast) with shaft	1
8A	71058	0301-1502C	Rotor (cast iron) w/shaft (reverse rot.)	1
8A	71059	0301-1502N	Rotor (Ni-resist) w/shaft (reverse rot.)	1
9	71044	0500-1502	Solid shaft only	1
10	71045	1610-0005	Spline key	1
11	71046	2230-0018	Set screw only	1
11	73909	2230-0034	Set screw (Silvercast only)	1
12	71047	1002-0005	Roller (polypropylene)	6
12	71048	1005-0005	Roller, Super Standard	6
12	71049	1055-0005	Roller (Teflon) optional	6
13	71060	0100-1500C	Body (cast iron) includes seal	1
13	71061	0100-1500N	Body (Ni-resist) includes seal	1
13	73913	0100-1500X	Body (SilverCast) with seal	1
14	71062	3420-0004	Base kit (base, 4 bolts & washers)	1

**ROLLER PUMP CAPACITIES AND INPUT POWER (BASED ON WATER)**

MODEL	SPEED (RPM)	0 PSI		50 PSI		100 PSI		150 PSI	
		GPM	HP	GPM	HP	GPM	HP	GPM	HP
1500	540	34	.75	30	1.75	28	2.75	26	3.75

**H y p r o 6 R o l l e r P u m p**

**6500**



PART NO.	REPLACES	DESCRIPTION
70048	6500C	Cast iron pump
70049	6500N	Ni-resist pump
70050	6500CR	Cast iron pump reverse rotation
70077	6500XL	Silver Cast

LENGTH	WIDTH	HEIGHT	SHAFT HEIGHT	SHAFT DIAMETER	PORT NPT
5 11/32"	6"	5 1/32"	3 5/32"	5/8"	3/4"

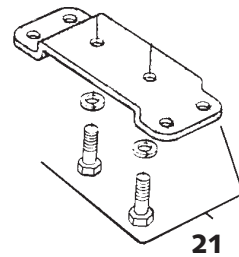
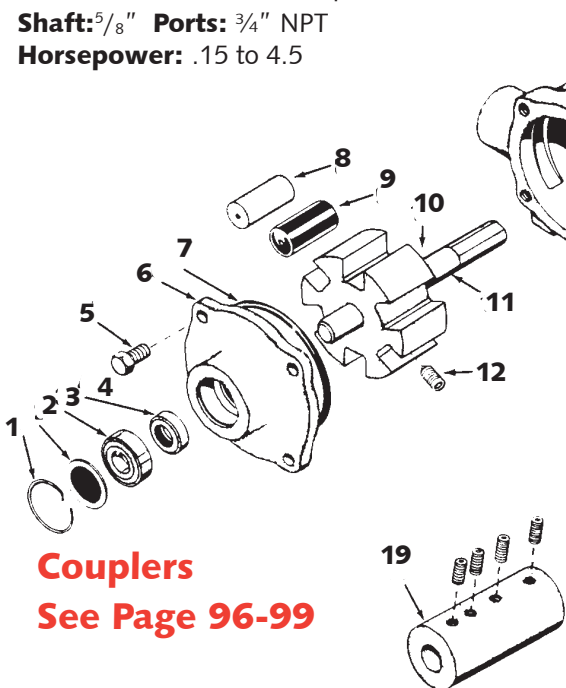
Along with the 7560, the series 6500 is one of the most widely used pumps on farms today. It's an economical way to handle: water, herbicides, insecticides, emulsions, aromatic solvents, fertilizer and wettable powder.

**Output:** 7.4 gpm at 540 rpm, 50 psi, 15gpm at 1000 rpm, 50 psi

**Maximum Pressure:** 300 psi

**Shaft:** 5/8" **Ports:** 3/4" NPT

**Horsepower:** .15 to 4.5



**REPLACEMENT PARTS FOR 6 ROLLER PUMP**

REF. NO.	PART NO.	REPLACES	DESCRIPTION	QTY. REQ.
1	71024	1800-0001	Bearing retainer ring	1
2	76511	2300-0021	Bearing cover	1
3	71592	2000-0010	Ball bearing (sealed)	2
4	71020	2107-0002	Seal (Viton) standard	2
4	71021	2102-0001	Seal (Buna-N) optional	2
4	71022	2103-0001	Seal (leather) optional	2
5	71063	2210-0004	Cap screw for end plate	4
6	71064	0200-6600C	End plate (cast iron) includes seal	1
6	71065	0200-6600N	End plate (Ni-resist) includes seal	1
6	73914	0200-6600X	End plate (SilverCast) with std. seal	1
7	71066	1720-0008	O-Ring gasket for end plate	1
8	71067	1052-0004	Rubber roller (optional)	6
9	71068	1005-0004	Super roller standard	6
9	70820	1002-0004	Polypropylene roller	6
10	71070	0300-6600C	Rotor with shaft (cast iron)	1
10	71071	0300-6600N	Rotor w/shaft (Ni-resist)	1
10	73915	0600-6600X	Rotor (SilverCast) with shaft	1
11	71072	0500-6600	Shaft only (includes set screw)	1
12	73916	2230-0007	Set screw (Silvercast only)	1
13	71073	0100-6600C	Body (cast iron) includes seal	1
13	71074	0100-6600N	Body (Ni-resist) includes seal	1
13	73917	0100-6600X	Body (SilverCast) with seal	1
19	71029	1320-0024	Adapter for Cub 1 inch PTO	1
21	71076	3420-0023	Base kit for pump (includes bolts)	1

**Couplers**  
See Page 96-99

**REPAIR KIT FOR 6 ROLLER PUMP**

PART NO.	REPLACES	DESCRIPTION
70628	3430-0380	6 roller pump repair kit (super rollers)

PART NO.	REPLACES	DESCRIPTION	QTY/KIT
71068	1005-0004	Super rollers	6
71066	1720-0008	O-Ring gasket for end plate	1
71020	2107-0002	Viton seal	2

**Output to 22 gpm - pressure to 300 psi**  
**Speed to 1200 rpm - temperature to 140°F**

**ROLLER PUMP CAPACITIES AND INPUT POWER (BASED ON WATER)**

SPEED MODEL	0 PSI (RPM)	50 PSI		100 PSI		150 PSI		200 PSI		250 PSI		300 PSI			
		GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP		
6500	540	9.1	.21	7.4	.58	6.5	.81	5.6	1.13	4.8	1.44	4.0	1.77	3.3	2.10
6500	1000	16.5	.50	15.1	1.04	14.4	1.44	13.6	2.06	12.9	2.58	12.1	3.14	11.3	3.74

**Hypro 7 Roller Pump**



Plenty of pump for both spraying and agitation - 13 gpm at 50 psi at 540 rpm PTO speed. Designed for wettable powder herbicides and insecticides. Avoids clogging and helps assure a proper and uniform mix.

**Output:** 12.9 gpm at 540 rpm, 50 psi

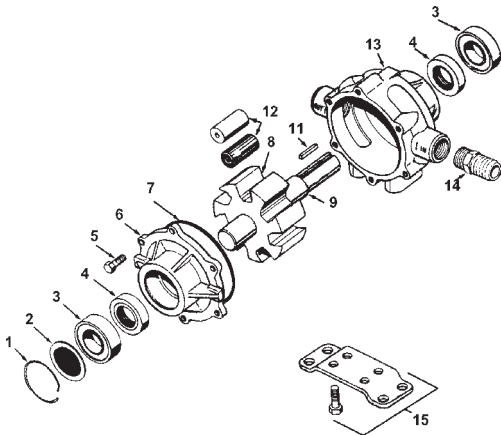
**Maximum Pressure:** 200 psi

**Shaft:** 15/16" **Ports:** 3/4" NPT

**Horsepower:** .11 to 3.3

**Couplers**

See Page 96-99



PART NO.	REPLACES	DESCRIPTION
70051	7700C	Cast iron pump
70052	7700N	Ni-resist pump
70078	7700XL	SilverCast

LENGTH	WIDTH	HEIGHT	SHAFT HEIGHT	SHAFT DIAMETER	PORT NPT
6 7/8"	6 5/8"	6"	3 1/2"	15/16"	3/4"

**REPLACEMENT PARTS FOR 7 ROLLER PUMP**

REF. NO.	PART NO.	REPLACES	DESCRIPTION	QTY. REQ.
1	71030	1800-0003	Retainer Ring	1
2	76510	2300-0020	Bearing Cover	1
3	71032	2008-0001	Ball bearing (sealed)	2
4	71034	2112-0001	Seal (Buna-N) optional	2
4	71033	2112-0003	Seal (Viton) standard	2
4	71035	2103-0002	Seal (leather) optional	2
5	71063	2210-0004	Bolts for end plate	6
6	71077	0200-7700C	End plate (cast iron) includes seal	1
6	71078	0200-7700N	End plate (Ni-resist) includes seal	1
6	73918	0200-7700X	End plate (SilverCast) with seal	1
7	71079	1720-0014	O-Ring gasket for end plate	1
8	71080	0300-7700C	Rotor (cast iron) with shaft	1
8	71081	0300-7700N	Rotor (Ni-resist) with shaft	1
8	71082	0301-7700C	Rotor (cast iron) w/shaft (reverse rot.)	1
8	71083	0301-7700N	Rotor (Ni-resist) w/shaft (reverse rot.)	1
8	73919	0300-7700X	Rotor (SilverCast) with shaft	1
9	71084	0550-7400	Solid shaft only (include set screw)	1
*	73916	2230-0007	Set screw (SilverCast only)	1
11	71045	1610-0005	Spline key	1
12	71068	1005-0004	Super roller	7
12	70820	1002-0004	Roller (Polypropylene)	7
13	71085	0100-7700C	Body (cast iron) includes seal	1
13	71086	0100-7700N	Body (Ni-resist) includes seal	1
13	73920	0100-7700X	Body (SilverCast) with seal	1
14	73496	2404-0052	1 inch hose barb	1
15	71087	3420-0010	Base kit for pump (with 4 bolts)	1

\* Not Shown

**REPAIR KIT FOR 7 ROLLER PUMP**

PART NO.	REPLACES	DESCRIPTION
70629	3430-0384	Repair kit (Super rollers, Viton seals)

PART NO.	REPLACES	DESCRIPTION	QTY/KIT
71068	1005-0004	Super rollers	7
71079	1720-0014	O-Ring gasket for end plate	1
71033	2112-0003	Viton seal	2

**Output to 20 gpm - pressure to 200 psi**

**Speed to 800 rpm - temperature to 140°F**

**ROLLER PUMP CAPACITIES AND INPUT POWER (BASED ON WATER)**

MODEL	SPEED (RPM)	0 PSI		50 PSI		100 PSI		150 PSI		200 PSI	
		GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
7700	540	14.2	.23	12.9	.56	11.9	1.10	11.2	1.64	10.3	2.22

**H y p r o 8 R o l l e r P u m p**

**7560**



The series 7560 offers a variety of choices in materials for rollers, shaft seals and pump housing. The choice reflects your pumping needs: water, herbicides, insecticides, emulsions, aromatic solvents, fertilizer and wettable powder. Heavy duty construction with 15/16" diameter steel shaft.

**Output:** 11.4 gpm at 540 rpm, 50 psi, 22 gpm at 1000 rpm, 50 psi  
**Maximum Pressure:** 300 psi  
**Shaft:** 15/16" **Ports:** 3/4" NPT  
**Horsepower:** .25 to 6

**REPLACEMENT PARTS FOR 8 ROLLER PUMP**

REF.	PART NO.	REPLACES	DESCRIPTION	QTY. REQ.
1	71030	1800-0003	Retainer Ring	1
*	76510	2300-0020	Bearing Cover	1
3	71032	2008-0001	Ball bearing (sealed)	2
4	71033	2112-0003	Seal (Viton) standard	2
4	71034	2112-0001	Seal (Buna-N) optional	2
4	71035	2103-0002	Seal (leather) optional	2
5	71063	2210-0004	Cap screw for end plate	6
6	71090	0204-7500C	End plate (cast iron) includes seal	1
6	71091	0204-7500N	End plate (Ni-resist) includes seal	1
6	73921	0204-7500X	End plate (SilverCast) with seal	1
7	71079	1720-0014	O-ring gasket for end plate	1
8	71068	1005-0004	Super roller standard	8
8	70820	1002-0004	Roller (polypropylene) optional	8
8	71067	1052-0004	Roller (Buna-N) optional	8
9	71092	0308-7560C	Rotor (cast iron) with shaft	1
9	71093	0308-7560N	Rotor (Ni-resist) with shaft	1
9	73922	0308-7560X	Rotor (SilverCast) with shaft	1
10	71094	0500-7400	Solid shaft only	1
11	71045	1610-0005	Spline key	1
12	71095	0104-7500C	Body (cast iron) includes seal	1
12	71096	0104-7500N	Body (Ni-resist) includes seal	1
12	73923	0104-7500X	Body (SilverCast) with seal	1
14	71097	3420-0003	Base kit (base, bolts, washers)	1

\* Not Shown

**REPAIR KIT FOR 8 ROLLER PUMP**

PART NO.	REPLACES	DESCRIPTION
70630	3430-0381	Pump repair kit (Super rollers)

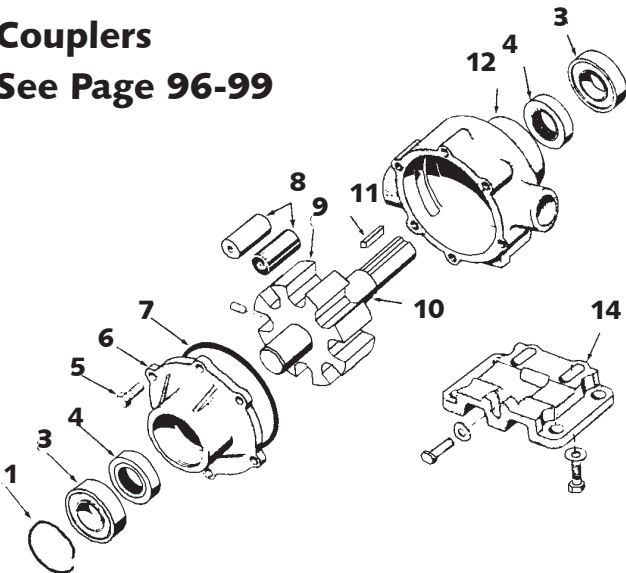
PART NO.	REPLACES	DESCRIPTION	QTY/KIT
71068	1005-0004	Super rollers	8
71079	1720-0014	O-Ring gasket for end plate	1
71033	2112-0003	Viton seal	2

**Output to 22 gpm - pressure to 300 psi**  
**Speed to 1000 rpm - temperature to 140°F**

PART NO.	REPLACES	DESCRIPTION
70053	7560C	Cast iron pump
70054	7560N	Ni-resist pump
70055	7560CR	Cast iron pump with base kit, reverse rot.
70079	7560XL	SilverCast

LENGTH	WIDTH	HEIGHT	SHAFT HEIGHT	SHAFT DIAMETER	PORT NPT
6 13/16"	6 5/8"	5 15/16"	3 3/8"	15/16"	3/4"

**Couplers**  
**See Page 96-99**



**ROLLER PUMP CAPACITIES AND INPUT POWER (BASED ON WATER)**

MODEL	SPEED (RPM)	0 PSI		50 PSI		100 PSI		150 PSI		200 PSI		250 PSI		300 PSI	
		GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
7560C	540	11.8	.25	11.2	.75	10.4	1.25	9.8	1.50	9.1	2	8.3	2.50	7.8	3
7560C	1000	22.9	1	21.9	2	21.4	3	20.5	4	19.7	5	18.9	6		

**Hypro "Small Twin" Piston Pump**

**5300**



Use leather cups for pest control applications and general chemical spraying insecticides, herbicides, fungicides, aromatic solvents. Use rubber cups for water, soaps and detergent solutions. Use teflon for continuous, hot service (from 100° to 140° F) on clean, non-abrasive liquids (including water, soaps, and detergents). Pump can be driven in either direction without changing inlet and outlet.

**PISTON PUMP CAPACITIES AND INPUT POWER (BASED ON WATER)**

LENGTH	WIDTH	HEIGHT	SHAFT HEIGHT	SHAFT DIA	PORT NPT
--------	-------	--------	--------------	-----------	----------

Solid shaft model

5 19/32"	5 1/8"	6 13/16"	3 1/2"	5/8"	1/2 NPT
----------	--------	----------	--------	------	---------

Hollow shaft model

5 7/32"	5 1/8"	5 1/2"	2 3/4"	5/8" ID	1/2 NPT
---------	--------	--------	--------	---------	---------

MODEL	SPEED (RPM)	100 PSI GPM	100 PSI HP	200 PSI GPM	200 PSI HP	400 PSI GPM	400 PSI HP	500 PSI GPM	500 PSI HP
5320	1800	2.26	.32	2.25	.44	2.21	.66	2.20	.79

**REPLACEMENT PARTS FOR PISTON PUMP**

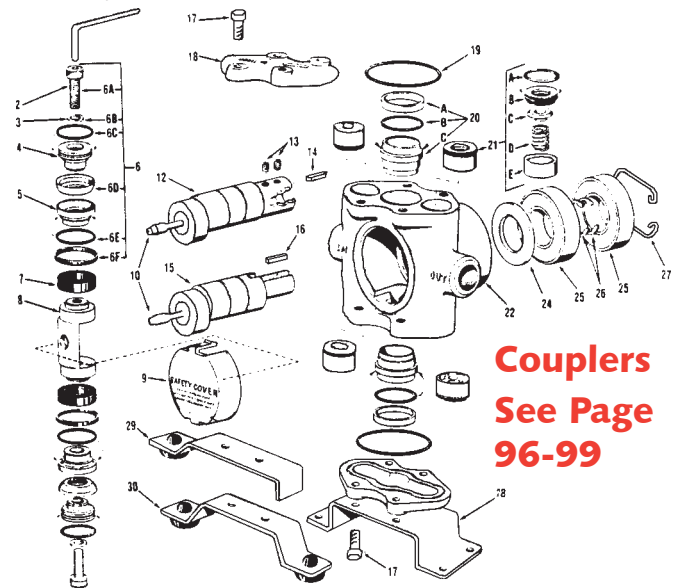
PART NO.	REPLACES	DESCRIPTION	QTY.	
2	in kit	Piston cap screw	2	
3	in kit	Washer gasket (always use new one when replacing piston assembly)	2	
4	70631	3430-0007	Piston repair kit (leather cups)	1
4	70632	3430-0009	Piston repair kit (rubber cups)	1
4	70633	3430-0030	Piston repair kit (Teflon cups)	1
5	in kit	Piston cup spreader	2	
6	in kit	Cup backing plate	2	
7	71116	1440-0004	Piston guide	2
8	71117	0502-5300	Connecting rod (replaces 501-5300)	1
9	71118	0608-5300	Grease fitting safety cover	1
10	71121	2405-0006	Grease Fitting	
12	-	-	Crankshaft assembly - see table Hollow Shaft	
13	71120	2230-0017	Set screw for hollow shaft	
15	-	-	Crankshaft assembly - see table solid shaft	
16	71122	1610-0007	Spline key for solid shaft	2
14	71123	1610-0011	Spline key for hollow shaft	1
17	71124	2210-0006	Headbolt	8
18	71125	0204-5300C	Cylinder head (cast iron)	2
19	71126	1720-0038	O-Ring for cylinder head	2
20B	71127	1720-0079	O-Ring for cylinder sleeve	2
20	71128	3550-0019	Cylinder sleeve assembly (Ni-resist)	2
21	71129	3400-0073	Unitized valve (stainless steel poppet spring & seat)	4
22	71130	0100-5300C	Body (cast iron)	1
24	71131	2130-0007	Bearing shield	1
25	71032	2008-0001	Main bearing (ball bearing)	2
26	71133	1810-0013	Bearing retainer ring (shaft)	2
27	71134	1820-0025	Bearing retainer ring (housing)	1
28	71135	1510-0022	Mounting base	1
29	71136	2820-0040	Torque arm for electric motor mount	1
30	71137	2820-0028	Torque arm for gas engine mount	1
31	71029	1320-0024	Adapter for cub tractor PTO shaft	1

PART NO.	REPLACES	5/8 SHAFT TYPE	OUTPUT @ 1800 RPM	CUP MATERIAL	WT.
70056	5320C-RX	Solid	2 gpm	Rubber	10
70057	5330C-RX	Solid	3 gpm	Rubber	10
70058	5320C-HRX	Hollow	2 gpm	Rubber	9 1/2
70059	5330C-HRX	Hollow	3 gpm	Rubber	9 1/2

MODEL PUMP	SUB ASSEMBLY PART NO.	REPLACES	COMPLETE ASSEMBLY PART NO.	REPLACES
5315H	71100	5501-5315	71108	5500-5315
5320H	71101	5501-5320	71109	5500-5320
5325H	71102	5501-5325	71110	5500-5325
5330H	71103	5501-5330	71111	5500-5330
5315	71104	5001-5315	71112	5000-5315
5320	71105	5001-5320	71113	5000-5320
5325	71106	5001-5325	71114	5000-5325
5330	71107	5001-5330	71115	5000-5330

Sub Assemblies - Include shaft (ref. 12 or 15) with cam bearing, grease fitting assembly (ref. 10), set screw for hollow shaft (ref. 13) and spline key (ref. 16 or 14).

Complete Assemblies - Include the Sub assembly plus parts identified by reference numbers 23-26



**Couplers**  
**See Page 96-99**

**REPAIR KIT FOR PISTON CUP & GUIDE**

PART NO.	REPLACES	DESCRIPTION
70634	3430-0008	Leather cup kit w/guides
70635	3430-0010	Rubber cup kit w/guides
70636	3430-0046	Teflon cup kit w/guides

PART NO.	REPLACES	DESCRIPTION	QTY./KIT
70631	3430-0007	Piston repair kit w/leather cups	1
70632	3430-0009	Piston repair kit w/rubber cups	1
70633	3430-0030	Piston repair kit w/Teflon cups	1
71116	1440-0004	Piston guide	2

**Hypro Twin Piston Plunger Pump**

**5321**



Use leather cups for pest control applications and general chemical spraying insecticides, herbicides, fungicides, aromatic solvents. Use rubber cups for water, soaps and detergent solutions. Use teflon for continuous, hot service (from 100° to 140° F) on clean, non-abrasive liquids (including water, soaps, and detergents). Pump can be driven in either direction without changing inlet and outlet. Solid shaft models include mounting base. Maximum pressure 1000 psi. Maximum speed 1800 rpm.

PART NO.	REPLACES	5/8 SHAFT TYPE	OUTPUT @ 1800 RPM	PLUNGER MATERIAL	WT.
70060	5321C	5/8" Solid	2.15 gpm	Stainless steel	11
70038	5322C-H	Hollow 5/8"	2.00 gpm	Ceramic plunger	11
70037	5321C-H	Hollow 5/8"	2.15 gpm	Stainless steel	11

**PISTON PUMP CAPACITIES AND INPUT POWER (BASED ON WATER)**

MODEL	SPEED (RPM)	100 PSI		200 PSI		400 PSI		500 PSI		600 PSI		800 PSI		1000 PSI	
		GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
5321,5322	1750	2.23	.33	2.22	.49	2.22	.77	2.22	.88	2.20	1.04	2.20	1.32	2.15	1.53

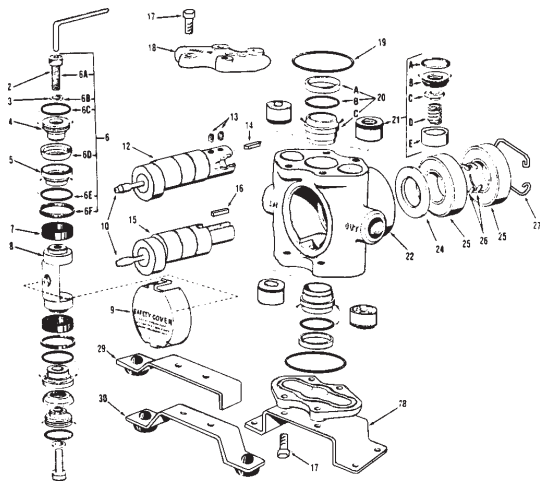
**CRANKSHAFT ASSEMBLIES**

**Part No. 73924 - Solid Shaft Sub-Assembly No. 5001-5321** consist of one each of the following parts: No. 0500-5321 crankshaft; No. 1600-0014 crankpin retainer, No. 2007-0029 cam bearing, No. 2405-0006 grease fitting assembly; No. 1610-0007 key

**Part No. 73925 - Solid Shaft Assembly No. 5000-5321** consists of one No. 5001-5321 crankshaft sub-assembly, two No. 1810-0013 retainer rings, two No. 2008-0001 main bearings, one No. 2130-0007 bearing shield

**Part No. 73926 - Hollow Shaft Sub-Assembly No. 5501-5321** consists of one No. 0550-5321 crankshaft, one No. 1600-0014 crankpin retainer, one No. 2007-0029 cam bearing, one No. 2405-0006 grease fitting assembly, one No. 1610-0011 key, two No. 2230-0017 set screws

**Part No. 73927 - Hollow Shaft Assembly No. 5500-5321** consists of one No. 5501-5321 crankshaft sub-assembly, two No. 1810-0013 retainer rings, two No. 2008-0001 main bearings, one No. 2130-0007 bearing shield



**REPAIR KIT FOR PISTON STACK & GUIDE**

PART NO.	REPLACES	DESCRIPTION
*70654	3430-0144	Plunger stack parts kit (seal rings guides, O-Rings, seal assys., capscrews, washers)
70681	3430-0145	Plunger parts kit (all above plus plungers)

**REPLACEMENT PARTS FOR PISTON PUMP**

REF	PART NO.	REPLACES	DESCRIPTION	QTY. REQ.
*2	71420	2220-0039	Socket head capscrew	2
*3	71421	2270-0042	Washer	2
4	71422	1830-0056	Retainer	2
*5	71412	2150-0027	Seal assembly	2
6	71423	1830-0054	Seal retainer	2
*7	71127	1720-0079	O-Ring for seal retainer	2
*8	71424	1440-0037	Guide	2
*9	71425	1720-0064	O-Ring for seal ring	2
*10	71426	1440-0010	Seal ring	2
11	71427	1830-0053	Guide retainer	2
12	71428	3500-0021	Plunger	2
13	71117	0502-5300	Connecting rod	1
14	71118	0608-5300	Safety cover	1
15	71429	2210-0063	Cylinder head bolt	4 or 8
15A	71430	2210-0064	Extra long cyl. head bolt for 5321C	4
16	71431	0201-5300C	Cylinder head (cast iron)	2
17	71126	1720-0038	O-Ring for cylinder head	2
18	71432	3430-0197	Set of 4 unitized valve assy.	1 set
19	71433	0108-5300C	Body (cast iron)	1
21	71121	2405-0006	Grease fitting assembly	1
22			Crankshaft assy. (see listing)	1
24	71120	2230-0017	Set screws for hollow shaft	2
25	71123	1610-0011	Spline key for hollow shaft	1
26			Crankshaft assy. (see listing)	1
27	71122	1610-0007	Spline key for solid shaft	1
28	71131	2130-0007	Bearing shield	1
29	71032	2008-0001	Main bearing	2
30	71133	1810-0013	Bearing retainer	2
31	71134	1820-0025	Retaining ring (housing)	1
32	71434	1510-0041	Mounting base for 5321C (solid shaft)	1
33	71435	3420-0030	Torque arm kit for 5321C-H	1

**COUPLERS SEE PAGES 96-99**



**Hypro "Big Twin" Piston Pump**

**5200**



5200 series pumps have 3/4" NPT ports. Cast iron housing. Maximum operating pressure is 400 lbs. Pumps come with leather cups as standard. Maximum output 6 gpm or 10 gpm. Maximum temperature 140° F.

**PISTON PUMP CAPACITIES AND INPUT POWER (BASED ON WATER)**

MODEL	SPEED (RPM)	100 PSI GPM	100 PSI HP	200 PSI GPM	200 PSI HP	400 PSI GPM	400 PSI HP
5206	600	5.84	.60	5.83	.90	5.80	1.78
5210	600	10.55	1.19	10.41	1.59	10.18	2.83

PART NO.	REPLACES	SHAFT TYPE	OUTPUT @ 1800 RPM	CUP MATERIAL	WT.
70062	5210C-H	w/1 3/8 PTO Adapter	10 gpm	Leather	16
70063	5206C-H	w/1 3/8 PTO Adapter	6 gpm	Leather	16
70064	5210C	1" solid shaft	10 gpm	Leather	16
70065	5206C	1" solid shaft	6 gpm	Leather	16

LENGTH	WIDTH	HEIGHT	SHAFT HEIGHT	SHAFT DIA	PORT NPT
--------	-------	--------	--------------	-----------	----------

Solid shaft model

5 11/16"	6 3/8"	7 11/16"	4 1/16"	1"	3/4 NPT
----------	--------	----------	---------	----	---------

Hollow shaft model

6 5/16"	6 3/8"	7 11/16"	4 1/16"	PTO	3/4 NPT
---------	--------	----------	---------	-----	---------

Maximum pressure 400 psi.

Maximum Speed 800 rpm (5206) 600 rpm (5210)

**CRANKSHAFT ASSEMBLIES**

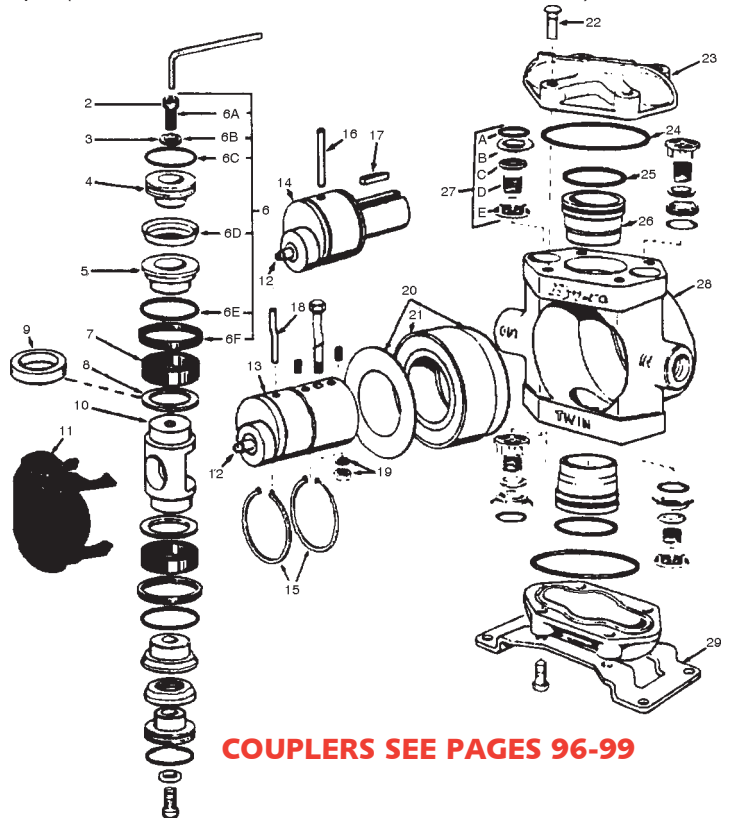
MODEL PUMP	CRANKSHAFT ONLY PART NO.	REPLACES	SUB ASSEMBLY PART NO.	REPLACES	COMPLETE ASSEMBLY PART NO.	REPLACES
5206C-HN	71138	0550-5206	71142	5503-5206	71146	5501-5206
5210C-HN	71139	0550-5210	71143	5503-5210	71147	5501-5210
5206C-N	71140	0500-5506	71144	5003-5206	71148	5001-5206
5210C-N	71141	0500-5210	71145	5003-5210	71149	5001-5210

Sub Assemblies - Include grease fitting, crankshaft, cam bearing and roll pin. (reference no. 20, 21, 35 and 18 or 19)

Complete Assemblies - Include ball bearing, slinger rings, retaining rings, crankshaft, cam bearing, grease fitting and roll pin (reference no. 14, 15, 16, 20, 21, 35 and 18 or 19)

**REPLACEMENT PARTS FOR PISTON PUMP**

REF	PART NO.	REPLACES	DESCRIPTION	QTY. REQ.
2	71168	2220-0013	Socket head capscrew	2
3	71169	2270-0012	Washer	2
4	71170	1830-0039	Piston cup spreader	2
5	71171	1410-0054	Backing plate	2
6	70637	3430-0037	Kit with leather cups	1
6	70638	3430-0039	Kit with fabric cups	1
7	71172	1440-0005	Piston guide	2
8	71173	1410-0018	Support ring for 5210C models	2
9	71174	1410-0020	Support ring for 5206C models	2
10	71175	0503-5200	Connecting rod	1
11	71418	0602-5200	Bearing cover (name plate)	1
12	71121	2405-0006	Grease fitting assembly	1
13			Crankshaft - see listing	
14			Crankshaft - see listing	
15	71165	1810-0001	Retainer ring	2
16	71167	1600-0013	Roll pin	1
17	71045	1610-0005	Key	1
20	71164	1410-0006	Slinger ring	2
21	71163	2005-0002	Main bearing	1
22	71154	2210-0062	Hex head cap screw	8
23	71151	0203-5200C	Cylinder head (cast iron)	2
24	71153	1720-0028	O-Ring for cylinder head	2
25	71155	1720-0019	O-Ring for cylinder sleeve	1
26	71156	3550-0007	Cylinder sleeve	2
27	71157	3400-0038	Valve set	4
28	71150	0100-5200C	Body (cast iron)	1
29	71152	1510-0024	Base	1



**COUPLERS SEE PAGES 96-99**

**REPAIR KIT FOR PISTON STACK & GUIDE**

PART NO.	REPLACES	DESCRIPTION
70637	3430-0037	Leather cup kit (ref. 6)
70638	3430-0039	Fabric cup kit (ref. 6)

PART NO.	REPLACES	DESCRIPTION	QTY./KIT
71168	2220-0013	Socket head cap screw	2
71169	2270-0012	Washer	2
71170	1830-0039	Piston cup spreader	2

**Banjo Centrifugal Pump**

**POLYPROPYLENE SELF-PRIMING FOR GASOLINE ENGINES WITH 3/4" SHAFTS AND ELECTRIC MOTORS WITH 3/4" SHAFT**



**PEDESTAL PUMP AND PUMP ONLY**

**Pedestal pumps:**  
With the addition of the Banjo bearing pedestal, the pump is easily adaptable to electric power. A flexible shaft coupling is used between motor and pump shaft.

**UNIVERSAL BASE PLATE ASSEMBLY**



**BEARING PEDESTAL PUMPS - FOR ELECTRIC MOTORS**

PART NO.	BANJO NO.	DESCRIPTION
SPW 150PB	150PB	1 1/2" pump/bearing - 3/4" straight shaft with key
SPW 200PB	200PB	2" pump/bearing pedestal - 3/4" straight shaft with key 3-vane impeller
SPW 205PB	205PB	2" pump/bearing pedestal - 3/4" straight shaft with key 5-vane impeller
SPW 300PB	300PB	3" poly pump with bearing pedestal - 3/4" shaft
SPP 71538	12882A	Bearing Pedestal - 3/4" straight shaft with key

(Recommended RPM 3450)

**PUMP ONLY (UNASSEMBLED) - FOR GASOLINE ENGINE**

RT NO.	BANJO NO.	DESCRIPTION
SPW 150PO	150PO	1 1/2" pump only (unassembled) accepts 3/4" straight shaft 3-vane impeller
SPW 200PO	200PO	2" pump only (unassembled) accepts 3/4" straight shaft 3-vane impeller
SPW 205PO	205PO	2" pump only (unassembled) accepts 3/4" straight shaft 5-vane impeller
SPW300PO	300PO	3" poly pump (unassembled) accepts 3/4" straight shaft 4-vane impeller

PART NO.	BANJO NO.	DESCRIPTION
SPP 71541	18700	Base Plate Assembly
Complete with bolts, washers, shims and coupling guard		

**REPAIR PARTS LIST (VITON) - NEW DESIGN**

PART NO.	BANJO NO.	DESCRIPTION
SPP 71529	12713V	Viton seal assy. with 316 SS cup & spring
SPP 71530	12719AV	Viton body O-Ring
SPP 71531	12717V	Viton O-Ring for screw head
SPP 71532	12754V	Viton O-Rng segment
SPP 71547	14774VA	Viton O-Ring for acorn nut
SPP 71535	12705V	Viton check valve
SPP 71559	UV15163V	Prime plug O-Ring
SPP 71537	12710V	Viton O-Ring for seal assy.
SPP 70687	12000AV	Viton repair kit
SPP 70688	12999AV	Viton pump seal/O-Ring kit

**PERFORMANCE CHART @ 3450 RPM BASED ON WATER**

150PB, 150PO PERFORMANCE CHART @ 3450 RPM (BASED ON WATER)									
Head (ft)	0	11	23	34	46	57	69	80	92
Pressure (PSI)	0	5	10	15	20	25	30	35	40
Flow (GPM)	125	110	95	80	70	50	30	15	0

200PB, 200PO PERFORMANCE CHART @ 3450 RPM (BASED ON WATER)									
Head (FT)	0	11	23	34	46	57	69	80	92
Pressure (PSI)	0	5	10	15	20	25	30	35	40
Flow (GPM)	140	120	105	85	70	50	30	15	0

205PB, 205PO PERFORMANCE CHART @ 3450 RPM (BASED ON WATER)										
Head (FT)	0	11	23	34	46	57	69	80	92	103
Pressure (PSI)	0	5	10	15	20	25	30	35	40	45
Flow (GPM)	195	180	170	155	145	125	110	85	60	20

300 PB, 300PO PERFORMANCE CHART @ 3450 RPM (BASED ON WATER)							
Head (FT)	0	11	23	34	46	57	69
Pressure (PSI)	0	5	10	15	20	25	30
Flow (GPM)	300	285	240	190	145	85	15

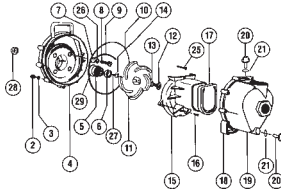
**SEE NEXT PAGE FOR PARTS BREAKDOWN**

**Banjo Centrifugal Pump**

**NEW DESIGN**

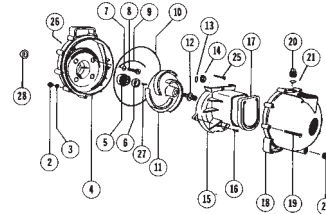
Replacement parts for pumps manufactured beginning September, 1996.

Viton replacement parts for new design on previous page.



**OLD DESIGN**

Replacement parts for pumps manufactured prior to September, 1996.



REF	PART NO.	DESCRIPTION	QTY.	1 1/2"	2"	3"
2	71501	Body nuts SS	10	V07019	V07019	V07019
3	71502	Lock washer SS	10	V07018	V07018	V07018
4	71542	Poly pump rear bracket	1	12703A	12703A	12703A
5&6	71504	Seal assembly*+	1	12713	12713	12713
7	71505	Screw heads O-Ring*+	4	12717	12717	12717
8	71543	Bracket screws SS	4	12715A	12715A	12715A
9	71507	O-Ring segment*+	1	12754	12754	12754
10	71508	Body O-Ring*+	1	12719A	12719A	12719A
11	71544	3 vane poly pump impeller	1	12771A	-	-
11	71539	5 vane poly pump impeller+	1	-	12772	-
11	71545	4 vane poly pump impeller+	1	-	-	13771
12	71546	Impeller bit SS	1	12765A	12765A	12765A
13	71547	Impeller bit gasket*+	1	12774VA	12774VA1	12774VA
14	71548	Impeller hex nut	1	12775A	12775A	12775A
15	71527	Poly pump volute	1	12702A	12702A	-
15	71549	Poly pump volute	1	-	-	13702A
16	71514	Volute screws SS	2	12725	12725	12725
17	71515	Poly pump check valve+	1	12705	12705	12705
18	71516	Poly pump body assembly	1	12711A	-	-
18	71551	Poly pump body assembly	1	-	12712A	-
18	71552	Poly pump body assembly	1	-	-	13712
19	71518	Body screws SS	10	12720	12720	12720
20	71519	Prime/drain plug	2	12777	12777	-
20	71553	Prime/drain plug	2	-	-	13777
21	71554	Prime/drain plug O-Ring*+	2	UV15163	UV15163	-
21	71555	Prime/drain plug O-Ring*+	2	-	-	13778
25	71524	Upper volute screw SS	1	12900	12900	12900
26	71525	Rear bracket washer SS	4	12901	12901	12901
27	71556	Impeller key	1	12902A	12902A	12902A
28	71557	Poly pump Slinger*+	1	12706	-	-
28	75254	Poly Pump Slinger	1	-	12716	12716
29	71528	O-Ring for seal assembly*+	1	12710	12710	12710
	71538	Bearing pedestal 3 3/4" straight shaft w/key	1	12882A	12882A	12882A
	71558	Impeller removal bolt*+	1	12099	12099	12099
	70663	Pump repair kit 1 1/2" & 2" pump (consists of items marked with +)		12000A	12000A	-
	70664	Pump repair kit 3" pump (consists of items marked with +)		-	-	13000
	70684	Pump seal o-ring kit 1 1/2" & 2" pump (consists of items marked with *)		12999A	12999A	-
	70685	Pump seal o-ring kit 3" pump (consists of items marked with *)		-	-	13999

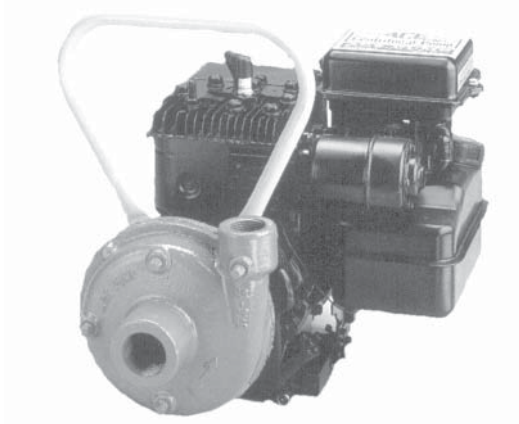
REF	PART NO.	DESCRIPTION	QTY.	1 1/2"	2"
2	71501	Body nuts	10	V07019	V07019
3	71502	Lock washer	10	V07018	V07018
4	71503	Rear bracket	1	12703	12703
5&6	71504	Seal assembly*+	1	12713	12713
7	71505	O-Ring for screw heads*+	4	12717	12717
8	71506	Bracket screws	4	12715	12715
9	71507	O-ring segment*+	1	12754	12754
10	71508	Body O-Ring*+	1	12719A	12719A
11	71509	Impeller+	1	12771	12771
12	71510	Impeller stud	1	12765	12765
13	71511	O-Ring acorn nut*+	1	12774V	12774V
14	71512	Acorn nut	1	12775	12775
15	71513	Volute	1	12702	12702
16	71514	Volute screws	2	12725	12725
17	71515	Check valve+	1	12705	12705
18	71516	Body	1	12711A	-
18	71517	Body	1	-	12012
19	71518	Body screws	10	12720	12720
20	71519	Prime plug	1	12777	12777
21	71520	O-Ring prime plug*+	1	12722	12722
22	71521	Drain plug	1	12723	12723
25	71524	Upper volute screw	1	12900	12900
26	71525	1/4" S.S. washer	4	12901	12901
27	71526	Impeller key	1	12902	12902
28	71520	Slinger O-Ring*+	3	12722	12722
29	71528	Seal O-Ring*+	1	12710	12710
	71538	Bearing pedestal 3/4" straight shaft w/key	1	12882A	12882A
	70660	Pump repair kit (consists of items marked with +)		12000	12000
	70661	Pump seal/O-Ring kit (consists of items marked with *)		12999	12999
	70662	Viton repair kit		12000V	12000V
	70686	Viton repair kit		12999V	12999V
	71522	Body plug		12766	12766
	71523	Spanner nut		12767	12767

**A c e C e n t r i f u g a l P u m p**

**GASOLINE ENGINE MOUNTED**

**GE100-A**

Note: GE-100 engines have 1/2" dia. shaft; GE-100-A Engines have 5/8" dia. shaft



**REPLACEMENT PARTS FOR CENTRIFUGAL PUMP**

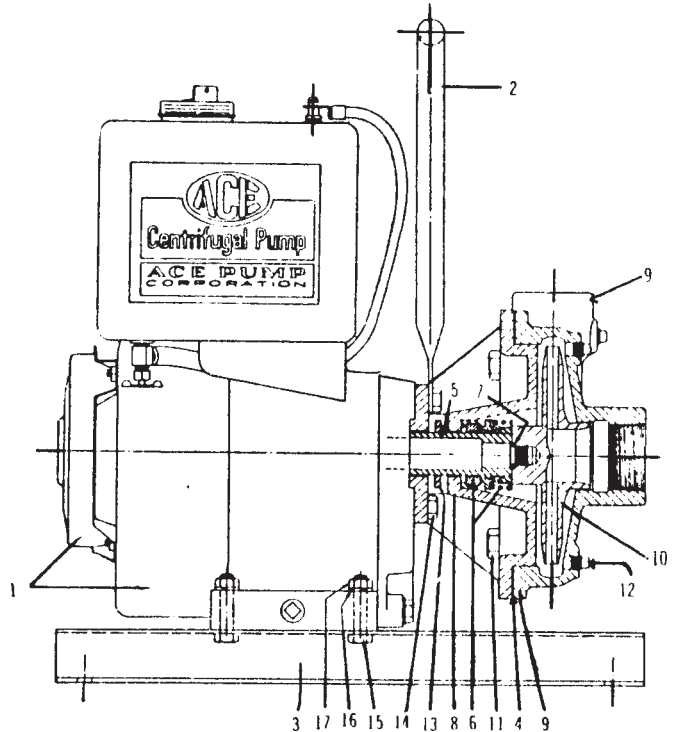
REF.	PART NO.	REPLACES	DESCRIPTION	QTY. REQ.
4	71562	31040	Gasket	1
5	71563	GE-6-SS	1" O.D. shaft sleeve, stainless steel GE-100	1
5	71648	GE-6-SS-A	1" O.D. shaft sleeve GE-100-A	1
6	71565	GE-7-V	1" rotary seal, Viton	1
7	71566	GE-8-A	O-Ring for GE-6A-SS shaft sleeve	1
8	71567	GE-9	Bracket	1
9	71568	30100	1 1/4" x 1" volute	1
10	71569	GE-26	Impeller, cast iron GE100	1
10A	71649	GE-26-A	Impeller, cast iron GE100A	1
12	71572	41110	1/8" N.P.T. pipe plug	4
12	71573	41120	1/8" N.P.T. pipe plug, stainless (opt.)	4
13	71574	GE-54	Slinger	1

**REPAIR KITS FOR CENTRIFUGAL PUMP**

PART NO.	REPLACES	DESCRIPTION
70670	RK-GE100	Seal repair kit (older model)
70671	RK-GE100A	Seal repair kit (newer model)

PART NO.	REPLACES	DESCRIPTION	QTY./KIT
71565	GE-7-V	1" rotary seal, Viton	1
71562	31040	Gasket	1
71566	GE-8-A	O-Ring for GE-6 shaft sleeve	1



**A c e R o l l e r P u m p s**

**MODEL 661-C  
CAST IRON 6 ROLLER PUMP**

**PART NO.**  
70102

Shaft 5/8" Stainless Steel  
Ports 3/4" NPT  
540 rpm 10 gpm max.  
300 psi max.  
1000 rpm 17 gpm max.  
300 psi max.



**MODEL 881-C  
CAST IRON 8 ROLLER PUMP**

**PART NO.**  
70103

(shown with optional roller changeout plug)

Shaft 15/16" Stainless Steel  
Ports 3/4" NPT  
540 rpm 12 gpm max.  
200 psi max.  
1000 rpm 22 gpm max.  
300 psi max.



**MODEL 661-C**

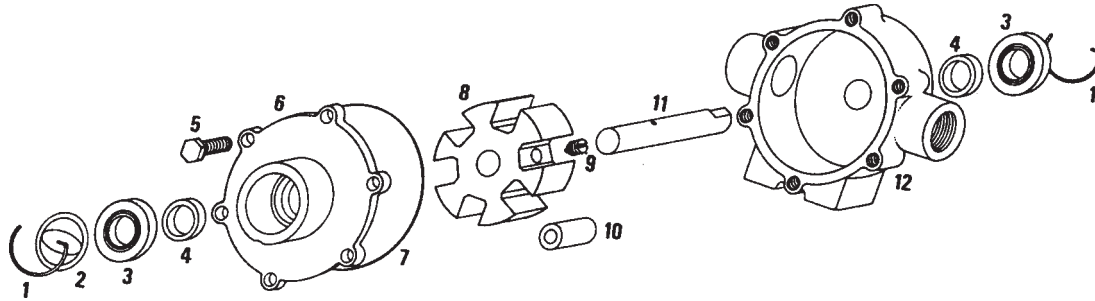
PUMP SPEED	0 PSI		50 PSI		100 PSI		150 PSI		200 PSI		250 PSI		300 PSI	
	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
400 rpm	7.0	.07	4.8	.49	4.0	.75	3.0	.80	1.5	1.00	-	-	-	-
540 rpm	10.0	.10	9.0	.60	7.6	.95	6.8	1.2	5.7	2.0	4.2	2.2	3.5	3.0
800 rpm	14.5	.20	13.3	.92	12.5	1.28	12.0	1.75	11.1	2.25	10.0	2.75	9	3.25
1000 rpm	17.5	.25	16.8	1.00	15.8	1.75	15.0	2.50	14.4	3.00	13.2	4.00	11.8	4.50

**MODEL 881-C**

PUMP SPEED	0 PSI		50 PSI		100 PSI		150 PSI		200 PSI		250 PSI		300 PSI	
	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
400 rpm	9.8	.25	7.8	.50	6.0	1.00	4.1	1.25	3.5	1.45	3.1	1.8	2.5	2.25
540 rpm	12.7	.33	10.9	.75	9.5	1.2	8.9	1.62	7.1	2.20	6.5	2.68	5.9	3.3
800 rpm	18.6	.90	17.1	1.25	15.2	1.85	14.5	2.25	12.6	3.10	11.8	3.90	10.5	4.25
1000 rpm	22.1	1.40	21.0	1.70	19.2	2.50	18.7	3.40	17.6	4.22	16.9	4.95	15.5	5.89

**SEE NEXT PAGE FOR PARTS BREAKDOWN**

**Ace Roller Pump Parts**



REF.	PART NO.	REPLACES	DESCRIPTION	QTY. REQ.	
				6 ROLLER	8 ROLLER
1	71620	41070	Retaining Ring	2	
1	71663	811	Retaining Ring		2
2	71664	6610C	Name Plate	1	
2	71665	8810C	Name Plate		1
*3	71023	BAC-37	Ball Bearing	2	
*3	71032	10650	Ball Bearing		2
4	71022	6056	Seal Leather	2	
4	71035	805L	Seal Leather		2
*4	71021	605N	Seal, Buna-N	2	
*4	71034	805N	Seal, Buna-N		2
4	71020	605V	Seal Viton	2	
4	71033	805V	Seal Viton		2
5	71063	41330	Cap Screw	8	8

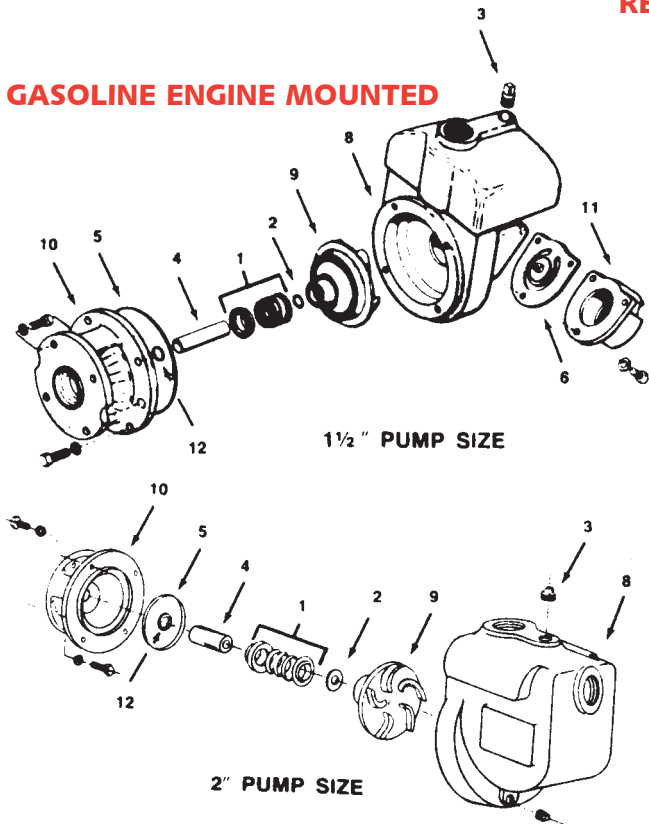
REF.	PART NO.	REPLACES	DESCRIPTION	QTY. REQ.	
				6 ROLLER	8 ROLLER
6	71666	622-C	End Plate	1	
6	71667	882-C	End Plate		1
*7	71066	6081	O-Ring	1	
*7	71079	8081	O-Ring		1
8,9,11	71668	663-C-664	Rotor & Shaft Assy.	1	
8,9,11	71669	883-C-884	Rotor & Shaft Assy.		1
*10	71068	10670	Roller, Nylon	6	8
*10	70820	10672	Roller, Polypropylene	6	8
12	71670	661C	Housing	1	
12	71671	881-C	Housing		1
	70628	25810	Repair Kit 6 Roller Super Rollers		
	70630	25910	Repair Kit 8 Roller Super Rollers		

\* in Repair Kit

Couplers See Page 96-99

**Scot Centrifugal Pump**

**REPLACEMENT PARTS FOR SCOT CENTRIFUGAL PUMP**



REF.	PART NO.	REPLACES	DESCRIPTION	QTY. REQ.	
				1 1/2"	2"
1	71700	101.000.102	Seal, Buna	1	1
1*	71701	101.000.115	Seal, Viton	1	1
2	71702	104.000.142	Shim	1	1
3	None	106.000.102	Prime plug	1	-
3	None	106.000.104	Prime plug	-	1
	None	106.000.284	Drain plug	1	1
4*	71703	110.000.258	Shaft sleeve	1	1
	None	None	O-Ring, shaft	1	1
5*	71704	116.000.146	O-Ring, casing	1	1
	None	None	O-Ring, flange	1	1
6	71705	118.000.114	Flapper, Buna	1	-
6	71706	118.000.261	Flapper, EPDM	1	-
7	71707	119.000.206	Base Plate	1	1
8	71708	130.000.142	Casing	1	-
8	71709	130.000.239	Casing	-	1
9	71710	131.000.238	Impeller	1	-
9	71714	131.000.526	Impeller	-	1
10	71711	132.000.155	Adapter	1	1
11	71712	136.000.138	Flange, suction	1	-
	None	None	Flange, discharge	1	1
12*	71713	104.000.179	Flinger	1	1
*	70700	118.000.252	Repair Kit		

**Ace Centrifugal Pump**

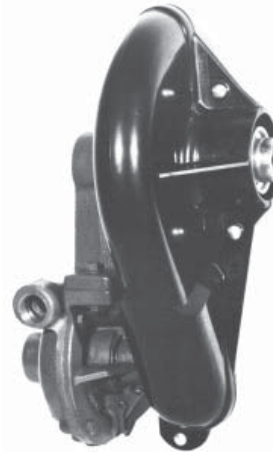
**TRACTOR PTO DRIVEN**

PART NO.	REPLACES	DESCRIPTION
70100	PTOC-600-10-6SP	Cast iron 1 1/4" x 1" straight centrifugal with pulleys and 10 groove belt arranged for direct mounting on 1 3/8" 600 rpm PTO shaft. 0-60 psi. Equipped with 6 spline PTO drive shaft. Viton mechanical seal. Fully guarded for operator safety.
70101	PTOC-1000-10-21SP	Cast iron 1 1/4" x 1" straight centrifugal with pulleys and 10 groove belt arranged for direct mounting on 1 3/8" 1000 rpm PTO shaft. 0-60 psi. Equipped with 21 spline split PTO drive shaft and split ring locking collar. Viton mechanical seals. Fully guarded for operator safety.

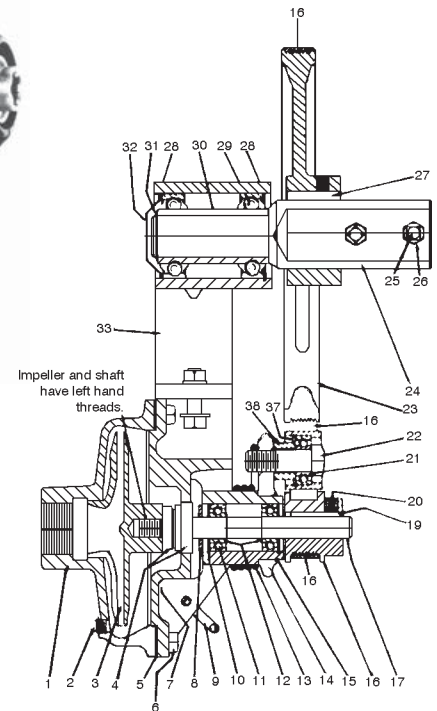
**REPLACEMENT PARTS FOR CENTRIFUGAL PUMP**

REF.	PART NO.	REPLACES	DESCRIPTION	QTY. REQ.
1	71580	BAC-12	1 1/4" x 1" volute	1
2	71572	41110	1/8" NPT plug	3
3	71582	BAC-26-CI	Impeller, cast iron	1
3	71853	BAC-26-VALOX	Impeller, Valox	1
4	71584	BAC-7B	Buna-N seal (optional)	1
4	71585	BAC-7V	Viton seal (standard)	1
5	71586	BAC-4	Gasket, 4 hole	1
6	71587	40930	3/8" NC cap screw	4
7	71588	BAC-14MIA	Mounting frame	1
8	71589	BAC-54	Slinger	1
9	71590	BAC-52	1/4" cold shut	1
10	71591	BAC-33	Internal snap ring (BAC-14)	2
11	71023	BAC-37	Ball bearing (BAC-6 shaft)	2
12	71593	BAC-32	Snap ring (BAC-6 shaft)	2
13	71594	BAC-5	Idler spring	1
14	71595	BAC-13	Idler arm	1
15	71596	BAC-36	External snap ring (BAC-13)	1
16	71645	BAC-28-8	8 groove belt (PTOC-600-10)	1
16	71597	BAC-28-10	10 groove belt (PTOC-600-10, 600-10B)	1
16	71598	BAC-28-10-M	10 groove belt (PTOC-1000-10, 1000-10B)	1
17	71599	BAC-29-10-1.5	10 groove pulley 1.7PD x 5/8" bore	1
18	71600	BAC-6	5/8" shaft L.H. thread	1
18	71601	BAC-6-SS	5/8" S.S. shaft L.H.	1
19	71602	BAC-50	3/16" key	1
20	71603	BAC-57	5/16" NC set screw	1
21	71604	BAC-55	Idler bearing assy.	1
22	71605	BAC-47	Hex head idler cap screw	1
23	71606	BAC-30-10	10 groove pulley 10.6" PD x 2" (PTOC-600-10)	1
23	71607	BAC-30-10M	10 groove pulley 6.375" PD x 2" (PTOC-1000-10)	1
24	71608	BAC-10-6SPQC	1 3/8" 6 spline PTO (PTOC-600-10)	1
24	71609	BAC-10-21SP	1 3/8" 21 spline PTO (PTOC-1000-10)	1
24	71610	BAC-10-S	1" PTO stub drive shaft	1
25	71611	BAC-40	3/8" NC set screw	6
26	71612	40960	3/8" NC jam nut	6
27	71613	BAC-51	3/8" key	1
28	71614	BAC-34	Internal snap ring (BAC-15)	2
29	71615	BAC-31	Ball bearing for BAC-10 shaft	2
30	71616	BAC-38	Bearing spacer	1
31	71617	BAC-35	External snap ring (BAC-10)	1
33	71618	BAC-15	Bearing housing (PTOC-600, 1000)	1
33	71619	BAC-15-B	Bearing housing w/base 600B	1
33	77801	BAC-15-A-6SP	PTO drive shaft bearing housing assy w/6 spline shaft	1
37	71620	41070	Retainer ring	1
38	71621	BAC-46	5/8" jam nut spacer	1
*	71622	40160	O-Ring for BAC-6 shaft	1
*	71623	BAC-55-A	Idler arm and outer roller assy.	1
*	71624	BGKH	Belt guard kit	1

\* Does not appear in drawing



**PTOC-600-10**



**REPAIR KITS FOR CENTRIFUGAL PUMP**

PART NO.	REPLACES	DESCRIPTION
70672	RK-PTOC-600-10	Repair kit for PTOC-600-10-6SP, PTOC-600-10-QC, and PTOC-600-10B
70673	RK-PTOC-1000-10	Repair kit for PTOC-1000-10-21SP, and PTOC-1000-175-20SP

PART NO.	REPLACES	DESCRIPTION	QTY.
71597	BAC-28-10	10 groove belt (PTOC-600-10, 10B)	1
71598	BAC-28-10-M	10 groove belt (PTOC-1000-10, 10B)	1
71585	BAC-7V	Viton seal	1
71586	BAC-4	Gasket, 4 hole	1
71622	40160	O -Ring for BAC-6 shaft	1

## A c e C e n t r i f u g a l P u m p

PART NO.	REPLACES
70104	PTOC-150-600-6sp
70105	PTOC-150-1000-21sp
70106	PTOC-150-600B with mounting base
70107	PTOC-150-1000B with mounting base

- The High Performance Pump. 40 GPM at 100 psi due to increased pulley ratio and larger 1 1/2" x 1 1/4" construction
- Provides higher pressure and greater volume for application with large tanks and long spray booms.
- Allow fuel savings by operating at lower engine speeds and still maintains adequate spraying pressures

### PTOC-150-600

TRACTOR PTO SPEED PSI	450 RPM GPM	500 RPM GPM	540 RPM GPM	600 RPM GPM
30	55	75	90	100
40	40	65	85	95
50	25	55	80	90
60	10	45	70	80
70	-	25	65	75
80	-	10	55	65
90	-	-	30	55
100	-	-	-	40

**1 1/2 X 1 1/4 CCW**

**SUCTION DISCHARGE**

**150 SERIES**  
**HIGH PERFORMANCE**



### PTOC-150-1000

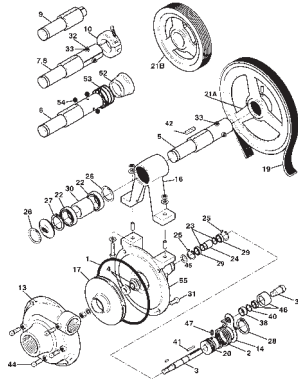
TRACTOR PTO SPEED PSI	700 RPM GPM	800 RPM GPM	900 RPM GPM	1000 RPM GPM
30	85	90	93	100
40	74	87	90	95
50	67	80	87	90
60	44	74	80	85
70	-	63	72	78
80	-	43	65	72
90	-	-	48	60
100	-	-	15	40

### REPAIR KITS FOR CENTRIFUGAL PUMP

PART NO.	REPLACES	DESCRIPTION
70677	RK-PTOC-150-600	Repair kit for PTOC-150-600 series, includes belt 71659, seal 71585, and O-Ring 71652
70678	RK-PTOC-150-1000	Repair kit for PTOC-150-1000 series, includes belt 71672, seal 71585, and O-Ring 71652



**Parts List for PTOC-150-1000-21SP & PTOC-150-600SP**

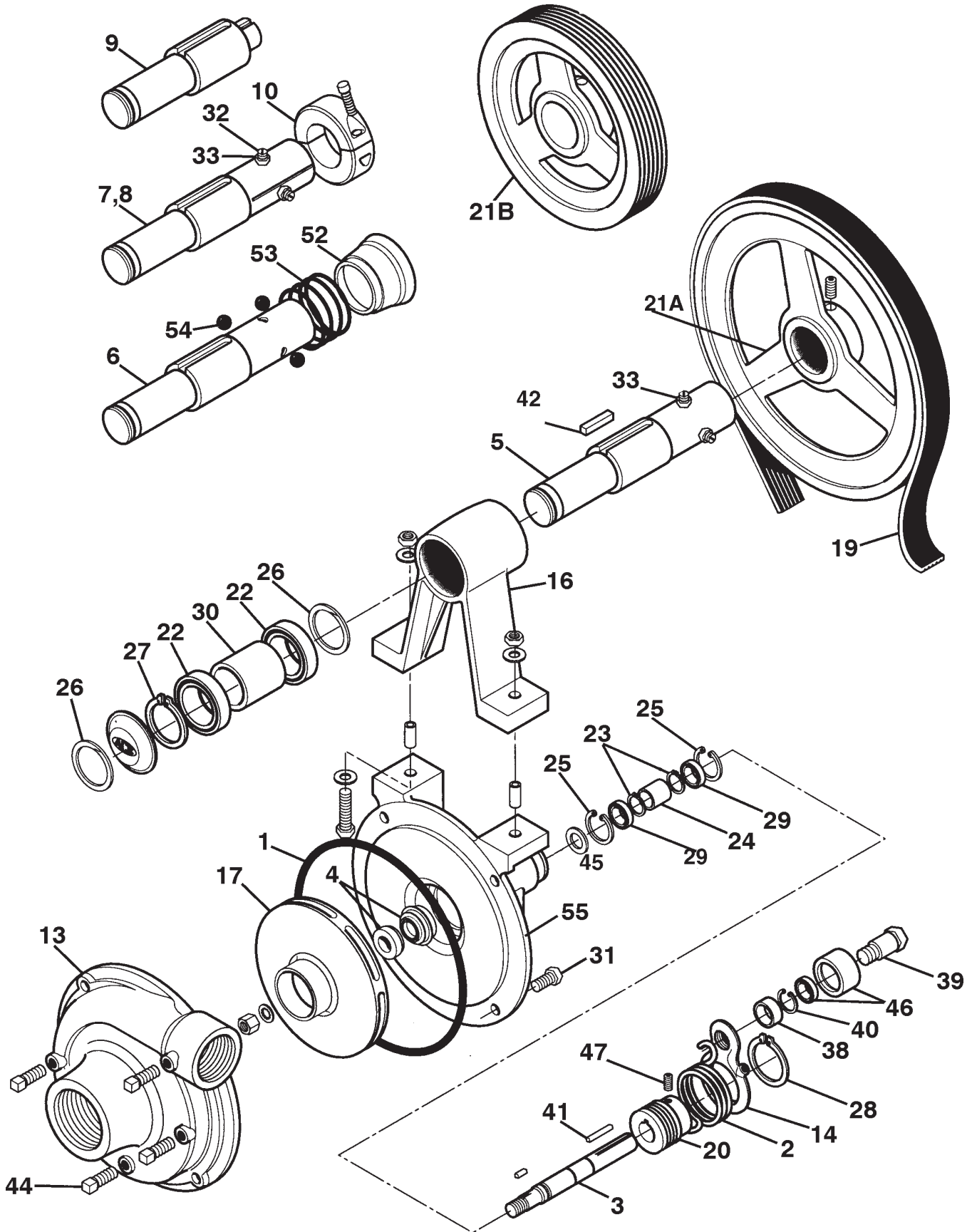


**SEE NEXT PAGE FOR  
EXPLODED VIEW.**

REF	PART NO.	REPLACES	REPLACES	DESCRIPTION	QTY
#	71624	BGKH	052610	Belt and shaft guard (for PTO mounted centrifugal pumps)	1
1	71652	*BAC-4-150	40015	O-Ring, volute seal	1
2	71594	BAC-5	40030	Idler mounted torsion spring	1
3	71653	BAC-6-150/200	40055	5/8" driven shaft with keyway	1
4	71585	*BAC-7V	40151	Viton mechanical seal (includes 40160 O-Ring)	1
4	71584	BAC-7B	40110	Buna-N mechanical seal (includes 40160 O-Ring) (optional)	1
#	71622	*40160	40160	O-ring for shaft	1
5	71654	BAC-10-6SP	40200	1 3/8" 6 tooth PTO spline drive shaft	1
6	71608	BAC-10-6SP-QC	40210	1 3/8" 6 tooth PTO spline shaft for quick coupler	1
7	71655	BAC-10-175-20SP	40180	1 3/4" 20 tooth PTO spline drive shaft, includes BAC-11-175	1
8	71609	BAC-10-21SP	40220	1 3/8" 21 tooth PTO spline drive shaft, includes BAC-11	1
9	71610	BAC-10-S	40190	1" tumbled rod stub drive shaft	1
10	71656	BAC-11	40235	Split ring, locking collar (for BAC-10-21SP shaft)	1
13	71657	BAC-12-150	40255	Volute, 1 1/2" x 1 1/4"	1
14	71595	BAC-13	40270	Idler arm	1
16	71618	BAC-15	40340	PTO drive shaft bearing housing	1
#	71619	BAC-15-B	40370	Tumbled rod drive shaft bearing housing with mounting base	1
17	71658	BAC-26-150	40445	Impeller, cast iron with keyway	1
19	71659	*BAC-28-10-150	40611	Poly-v belt, 10 groove (for PTOC-150-600)	1
#	71672	*BAC-28-10M-150	40621	Poly-v belt, 10 groove (for PTOC-150-1000)	1
20	71673	BAC-29-10-1.35	40675	1.35" P.D. x 5/8" bore poly-v pulley, 10 groove (for PTOC-150-600)	1
#	71599	BAC-29-10-1.50	40680	1.5" P.D. x 5/8" bore poly-v pulley, 10 groove ( for PTOC-150-1000)	1
21A	71813	BAC-30-10-150	40741	11.6" PD x 2" bore poly-v pulley, 10 groove (PTOC-150-600)	1
21B	71814	BAC-30-175-150	40746	7.9" PD x 2 3/8" bore poly-v pulley for PTOC-150-1000-20SP	1
21B	71815	BAC-30-10M-150	40751	7.9" PD x 2" bore poly-v pulley (for PTOC-150-1000-21SP)	1
22	71615	BAC-31	40780	Sealed ball bearing, BAC-10 drive shaft	2
23	71593	BAC-32	40790	External snap ring for driven pump shaft	2
24	71625	BAC-32-S	40795	Spacer for pump shaft	1
25	71591	BAC-33	40810	Internal snap ring for mounting frame	2
26	71614	BAC-34	40830	Internal snap ring, BAC-15 bearing housing	2
27	71617	BAC-35	40840	External snap ring, BA-10 drive shaft	1
28	71596	BAC-36	40850	External snap ring, BAC-13 idler arm	1
29	71023	BAC-37	40870	Sealed ball bearing for pump shaft	2
30	71616	BAC-38	40900	Bearing spacer, drive shaft	1
31	71587	40930	40930	3/8" NC x 3/4" hex head cap screw, stainless steel (optional)	4
32	71611	BAC-40	40940	3/8" NC slotted set screw	3
33	71612	40960	40960	3/8" NC jam nut	3
38	71621	BAC-46	41020	5/8" spacer	1
39	71605	BAC-47	41040	5/8" NC x 2 1/8" hex head idler cap screw	1
40	71620	41070	41070	Retainer ring	1
41	71602	BAC-50	41080	3/16" x 3/16" x 1 1/4" key	1
42	71613	BAC-51	41090	3/8" x 1/2" x 1 1/2" key, PTO drive shaft	1
#	71590	BAC-52	41100	1/4" cold shut, torque chain anchor	1
44	71572	41110	41110	1/8" NPT pipe plug	3
44	71573	41120	41120	1/8" NPT pipe plug, stainless steel (optional)	3
45	71589	BAC-54	41130	Slinger	1
46	71604	BAC-55	41140	Idler bearing and outer roller assembly	1
47	71603	BAC-57	41180	5/16" NC x 5/16" allen head set screw for BAC-29-10 pulley	2
52	71807	BAC-81-QC	41450	Ball retainer sleeve	1
54	76519	BAC-83-QC	41470	Ball for quick coupler	
55	71683	BAC-14-150-MIA	40308	Mounting Frame.	

\* in seal kit

**PTOC-150-1000-21SP and PTOC-150-600SP**



**A c e C e n t r i f u g a l P u m p**

PART NO.	REPLACES	CLOSED CENTER	OPEN CENTER	PUMP ONLY
70200	FMC-HYD-204	All	4-13 gpm	70216
70201	FMC-HYD-210	Not recommended	14-17 gpm	70216
70202	FMC-HYD-310	Not recommended	18-24 gpm	70217



**FMC-HYD-204**

Contact your Westward Parts order desk for more information on selecting the correct centrifugal pump for current model tractors.

Cast iron 1 1/4" frame mounted straight centrifugal pump for tractor hydraulic system applications. Assembled with hydraulic motor equipped with internal check valve to prevent reverse rotation and resulting seal damage. Also equipped with integral needle valve to control input of fluid on open center tractor hydraulic systems and a restrictor orifice to control input of fluid on closed center systems is included with model FMC-HYD-204. (Models FMC-HYD-210 and FMC-HYD-310 are not equipped with restrictor orifice). To match pump model with tractor hydraulic system capacity, refer to chart. Models FMC-HYD-204 and FMC-HYD-210 produce 0-100 psi at maximum 4600 rpm and 60 gpm at open discharge. Model FMC-HYD-310 produces 0-65 psi at maximum 3950 rpm and 60 gpm at open discharge. For open center systems which require sprayer pump pressures of from 60 to 100 psi, pump model FMC-HYD-210 should be selected where the tractor system has a minimum of 8 gpm at 500 psi available at the remote ports.

**REPLACEMENT PARTS FOR CENTRIFUGAL PUMP**

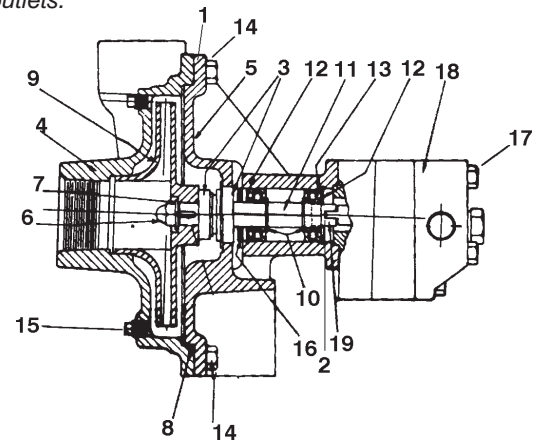
REF.	PART NO.	REPLACES	DESCRIPTION	QTY. REQ.
1	71586	BAC-4	Gasket, 4 hole	1
2	71626	BAC-6-HYD	5/8" driven shaft w/tang slot	1
2	71627	BAC-6-HYD-SS	5/8" driven shaft w/tang slot, stainless	1
2	71798	BAC6-HYD-SS	Shaft 5/8" w/tangss. for lipseal	
3	71584	BAC-7B	Buna-N mechanical seal	1
3	71585	BAC-7V	Viton mechanical seal	1
3	71796	40125	Leather seal	1
#	71622	40160	O-Ring for BAC-6-HYD shaft	1
4	71580	BAC-12	1 1/4" x 1" volute	1
5	71628	BAC-14-HYD	Mounting frame	1
5	71629	BAC-14-HYD-310	Mounting frame for BAC-75-HYD-310 hydraulic motor	1
6	71630	BAC-23-SS	3/8" N.F. hex nut, stainless steel	1
7	71631	BAC-24-HYD-SS	3/8" washer, stainless steel	1
8	71632	BACH-25	1/8" x 1/8" x 1/2" impeller key	1
9	71633	BAC-26-HYD	Impeller, Valox, w/keyway	1
9	71634	BAC-26-HYD-CI	Impeller, cast iron, w/keyway(opt.)	1
10	71593	BAC-32	External snap ring, BAC-6-HYD shaft	2
11	71625	BAC-32S	Spacer for BAC-6-HYD shaft	1
12	71591	BAC-33	Internal snap ring, BAC-14-HYD frame	2
13	71023	BAC-37	Sealed ball bearing, BAC-6-HYD shaft	2
14	71587	40930	3/8" N.C. x 3/4" hex head cap screw	4
15	71572	41110	1/8" NPT pipe plug	3
15	71573	41120	1/8" NPT pipe plug, stainless steel	3
16	71589	BAC-54	Slinger	1
17	71638	41256	5/16" N.C. x 3 1/2" hex head cap screw motor to pump (FMC-HYD-204)	4
17	71639	41257	5/16" N.C. x 4" hex head cap screw motor to pump (FMC-HYD-210)	4
17	71640	41330	5/16" N.C. x 3/4" hex head cap screw motor to pump (FMC-HYD-310)	4
18	71641	BAC-75-HYD-204	Hydraulic motor (open or closed center system with integral needle valve) (FMC-HYD-204)	1
18	71642	BAC-75-HYD-210	Hydraulic motor (open or closed center system with integral needle valve) (FMC-HYD-210)	1
18	71643	BAC-75-HYD-310	Hydraulic motor (open or closed center system with integral needle valve) (FMC-HYD-310)	1
19	71644	BAC-76-HYD	Coupling for hydraulic motor	1
#	70984	40161	Steel Support spacer	

#Not shown in cross section drawing

**PUMP CAPACITIES (BASED ON WATER)**

MODEL	10 PSI GPM	30 PSI GPM	40 PSI GPM	50 PSI GPM	60 PSI GPM	90 PSI GPM	100 PSI GPM
204	75	60	-	50	-	20*	10*
210	75	60	-	50	-	20*	10*
310	75	60	50	-	20	-	-

Data based on 1 foot lift through unrestricted suction hose and fittings with full 1 1/4" I.D. on 1 1/4" x 1" series and 2" I.D. on 2" x 1 1/2" series. Performance based on maximum 4600 rpm for 1 1/4" x 1" pumps equipped with 204 or 210 motors, and 3950 rpm for 1 1/4" x 1" pumps equipped with 310 motors or all 2" x 1 1/2" pumps. \* For open center systems which require sprayer pump pressures from 60 to 100 psi, pump model FMC-HYD-210 should be selected where the tractor has a minimum of 8 gpm at 500 psi available at the remote outlets.



**REPAIR KITS FOR CENTRIFUGAL PUMP & ORBIT MOTOR**

PART NO.	REPLACES	DESCRIPTION	QTY.
70674	RK-FMC	Pump seal kit for FMC-HYD-204, FMC-HYD-210, & FMC-HYD-310	
70683	RK-FMCL	Pump seal kit leather	
70675	RK-BAC-75-204	Orbit motor repair kit (FMC-HYD-204, & FMC-HYD-210)	
70689	RK-BAC-75-HYD-L	New L seal kit for 71641 and 71642 orbit motors	
PART NO.	REPLACES	DESCRIPTION	QTY.
71586	BAC-4	Gasket, 4 hole	1
71585	BAC-7V	Viton mechanical seal	1
71622	40160	O-Ring for BAC-6-HYD shaft	1

## A c e C e n t r i f u g a l P u m p

## TRACTOR HYDRAULIC DRIVEN SYSTEM

2" X 1 1/2" CCW  
SUCTION DISCHARGE

PART NO.	MODEL NO.	PUMP ONLY
SPP 70203	FMC-200-HYD-210	SPP 70218
SPP 70204	FMC-200-HYD-310	SPP 70219

REF.	PART NO.	REPLACES	DESCRIPTION	QTY
1	71586	BAC-4	Gasket, 4 hole	1
2	71626	BAC-6-HYD	5/8" driven shaft with tang slot	1
2	71627	BAC-6-HYD-SS	5/8" driven shaft with tang slot, stainless steel (optional)	1
3	71584	BAC-7B	Buna-N mechanical seal (includes 40160 O-Ring) (optional)	1
3	71585	BAC-7V	Viton mechanical seal (includes 40160 O-Ring)	1
3	71796	40125	Leather seal	1
4	71676	BAC-14-CCW	Volute, 2" x 1 1/2" (for FMC-200 and FMC-200-HYD)	1
#	71622	40160	O-ring for BAC-6 shaft	1
5	71628	BAC-14-HYD	Mounting frame (for BAC-75-HYD-204 and 210 hydraulic motors)	1
5	71629	BAC-14-HYD-310	Mounting frame (for BAC-75-HYD-310 hydraulic motor)	1
6	71630	BAC-23-SS	3/8" NF Hex nut, stainless steel	1
7	71631	BAC-24-HYD-SS	3/8" washer, stainless steel	1
8	71632	BACH-25	1/8" x 1/8" x 1/2" key	1
9	71675	41525	5 1/2" impeller cast iron, with keyway (for FMC-200-HYD)	1
10	71593	BAC-32	External snap ring, BAC-6 driven shaft	2
#	71625	BAC-32-S	Spacer for BAC-6 shaft	1
11	71591	BAC-33	Internal snap ring, BAC-14 mounting frame	2
12	71023	BAC-37	Sealed ball bearing, BAC-6 driven shaft	2
13	71587	40930	3/8" NC x 3/4" hex head cap screw, stainless steel (optional)	4
14	71572	41110	1/8" NPT Pipe plug	3
14	71573	41120	1/8" NPT pipe plug, stainless steel (optional)	3
15	71589	BAC-54	Slinger	1
16	71639	41257	5/16" NC x 4" hex head cap screw (for 210 motor)	4
#	71640	41330	5/16" NC x 3/4" cap screw BACH-12 volute	8
17	71642	BAC-75-HYD-210	8 GPM hydraulic motor for open-center or closed-center systems with integral needle valve	1
17	71643	BAC-75-HYD-310	16 GPM hydraulic motor for open-center systems with integral needle valve	1
18	71644	BAC-76-HYD	Coupling for hydraulic motor	1

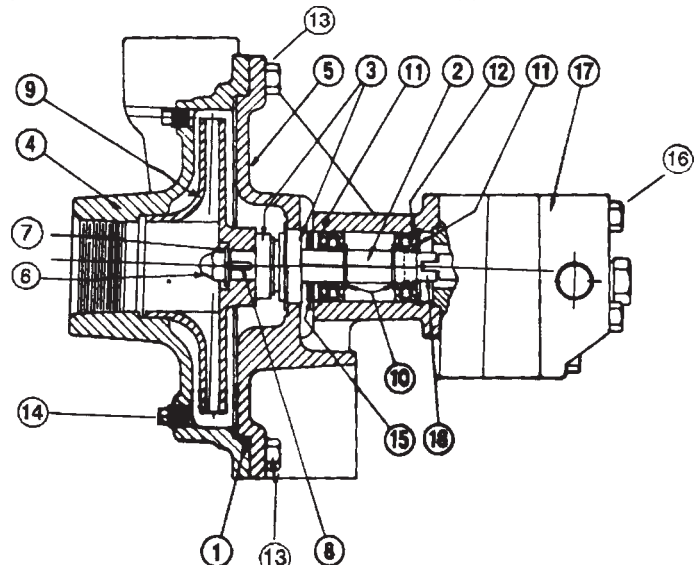
- For high volume applications. Capacity to 180 GPM
- Ideal for spraying, large tank agitation, liquid transfer, or spray-transfer combinations
- The 210 motor requires 8 GPM hydraulic input  
Recommended for:
  - John Deere type pressure compensating closed centre systems
  - Case-IH type load sensing closed centre systems
  - Open centre systems with capacities from 8 to 17 GPM
- The 310 motor requires 16 GPM hydraulic fluid input.  
Recommended for large open centre systems with capacities from 16 to 24 GPM

SHUT-OFF 0 GPM	20 GPM	60 GPM	100 GPM	140 GPM	180 GPM
80 PSI	75 PSI	67 PSI	55 PSI	40 PSI	10 PSI
60 PSI	55 PSI	47 PSI	35 PSI	20 PSI	
40 PSI	35 PSI	27 PSI	15 PSI		

**Maximum Pressure:** 80 PSI (60 PSI for -310)

**Maximum Flow:** 180 GPM

**Note:** To determine the correct performance data for your application, first shut off all flow on discharge side of pump and determine the shut-off pressure at the pump. Use this SHUT-OFF pressure to determine which line of data applies.



## REPAIR KITS FOR CENTRIFUGAL PUMP &amp; ORBIT MOTOR

PART NO.	REPLACES	DESCRIPTION
70674	RK-FMC	Pump seal kit Viton includes 71586, 71585 & 71622
70683	RK-FMCL	Pump seal kit leather includes 71586, 71796 & 71622
70675	RK-BAC-75-204	Orbit motor repair kit (FMC-200-HYD-210)
70689	RK-BAC-75-HYD-L	New L seal kit for 71642 orbit motor
70676	RK-BAC-75-310	Orbit motor repair kit (FMC-200-HYD-310)

**Ace Hydraulic Driven Centrifugal Pump**

**1 1/2" X 1 1/4" CCW**

**150 SERIES**  
HIGH PERFORMANCE

**SUCTION DISCHARGE**



PART NO.	MODEL	DESCRIPTION
SPP 70207	FMC-150-HYD-206	Hydraulic driven centrifugal pump
SPP 70231		Pump only

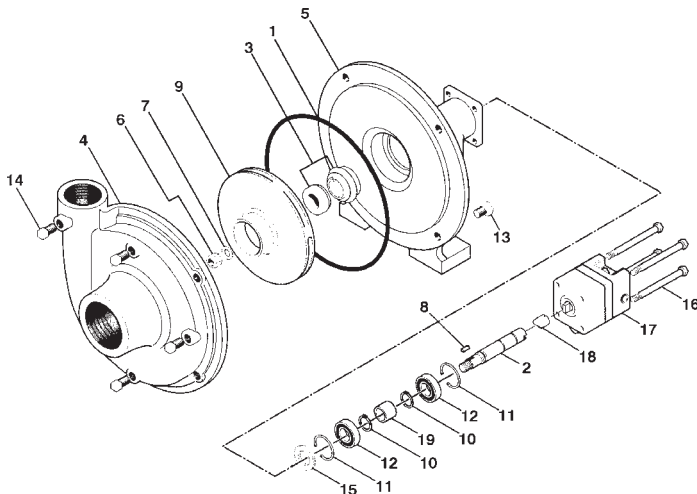
- The high performance pump - 20 GPM at 100 PSI
- Provides higher pressure and greater volume for application with large tanks and long booms
- The 206 motor requires 7 GPM hydraulic fluid input and fits virtually all tractor hydraulic systems
- Recommended for:
  - John Deere type pressure compensating closed centre systems
  - Case-IH type load sensing closed centre systems
  - Open centre systems with capacities from 7 to 16 GPM

SHUT-OFF 0 GPM	20 GPM	40 GPM	60 GPM	80 GPM	100 GPM
120 PSI	100 PSI	80 PSI	60 PSI	30 PSI	10 PSI
100 PSI	95 PSI	76 PSI	52 PSI	26 PSI	5 PSI
80 PSI	75 PSI	62 PSI	45 PSI	21 PSI	
60 PSI	55 PSI	40 PSI	25 PSI	5 PSI	

**Maximum Pressure:** 120 PSI

**Maximum Flow:** 100 GPM

**Note:** To determine the correct performance data for your application, first shut off all flow on discharge side of pump and determine the SHUT-OFF pressure at the pump. Use this SHUT-OFF pressure to determine which line of data applies.



REF.	PART NO.	REPLACES	DESCRIPTION	QTY.
*1	71652	BAC-4-150	O-Ring, volute	1
2	71626	BAC-6-HYD	5/8" driven shaft with tang slot	1
2	71627	BAC-6HYD-SS	5/8" driven shaft with tang slot, stainless steel (optional)	1
#	71584	BAC-7B	Buna-N mechanical seal (optional)	1
*3	71585	BAC-7V	Viton mechanical seal (includes 40160 O-Ring)	1
3	71921	BAC-7SC	Silicon carbide Mechanical seal c/w 40160 o-ring. This material is resistant to scratching by abrasive particles in spray solution	
*#	71622	40160	O-Ring for BAC-6-HYD shaft	1
4	71657	BAC-12-150	1 1/2" x 1 1/4" volute	1
5	71678	BAC-14-150-HYD	Mounting frame	1
6	71630	BAC-23-SS	3/8" N.F. hex nut, stainless steel	1
7	71631	BAC-24-HYD-SS	3/8" lock washer, stainless steel	1
8	71632	BACH-25	1/8" x 1/2" x 1/2" impeller key	1
9	71658	BAC-26-150	Impeller, w/keyway cast iron	1
9	71916	BAC-26-150-P	Impeller w/keyway plastic	1
10	71593	BAC-32	External snap ring, BAC-6-HYD driven shaft	2
11	71591	BAC-33	Internal snap ring, BAC-14-HYD-150 mounting frame	2
12	71023	BAC-37	Sealed ball bearing, BAC-6-HYD driven shaft	2
13	71587	40930	3/8" N.C. x 3/4" hex head cap screw, stainless steel (optional)	4
14	71572	41110	1/8" NPT pipe plug	3
14	71573	41120	1/8" NPT pipe plug, stainless steel (optional)	3
15	71589	BAC-54	Slinger	1
16	71679	41258	5/16" N.C. x 3 3/4" hex head cap screw motor to pump (for FMC-150-HYD-206)	4
17	71681	BAC-75-HYD-206	Hydraulic motor for open-centre or closed centre systems with integral needle valve (for Model FMC-150-HYD-206)	1
18	71644	BAC-76-HYD	Coupling for hydraulic motor	1
19	71625	BAC-32-S	Spacer for BAC-6 shaft	1
#	71808	LS-206	Flow limit valve for 71681 orbit motor	1
#	70984	40161	steel support spacer	1

\* items included in repair kit

# Not shown on cross section drawing

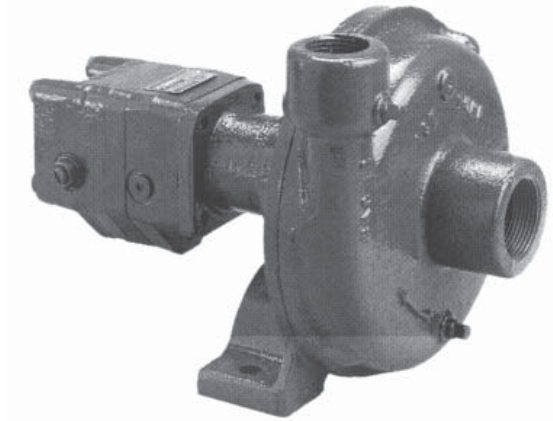
**REPAIR KITS FOR CENTRIFUGAL PUMP & ORBIT MOTOR**

PART NO.	REPLACES	DESCRIPTION
70679	RK-FMC-150	Pump seal kit, includes 71585, 71677 and 71622
70675	RK-BAC-75-HYD	Orbit motor repair kit (FMC-150-HYD-206)
70689	RK-BAC-75-HYD-L	New L seal kit for 71681 orbit motor

**Ace High Capacity Hydraulic Driven Centrifugal Pump**

PART NO.	MODEL NO.
SPP 70212	FMC-200-HYD-304
SPP 70213	Pump Only

- Suction 2" Discharge 1 1/2"
- Recommended for use on the following Hydraulic Systems:
  - Pressure Compensating Closed Centre
  - Load Sensing or Pressure Flow Compensating Closed Centre
  - Open Center from 10 to 20 GPM
- Integral Needle Valve bypasses up to 9 GPM on Open Center Systems
- Standard Viton Carbon/Ceramic seal
- All iron construction
- Stainless Steel Shaft

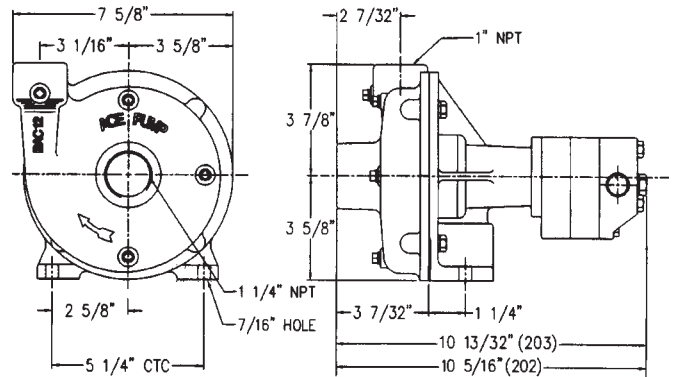


**PERFORMANCE CHART**

SHUT-OFF 0 GPM	40 GPM	80 GPM	120 GPM	160 GPM	200 GPM
120 psi	114 psi	100 psi	85 psi	65 psi	36 psi
100 psi	92 psi	83 psi	68 psi	52 psi	-
80 psi	76 psi	68 psi	57 psi	43 psi	-
60 psi	56 psi	50 psi	40 psi	-	-

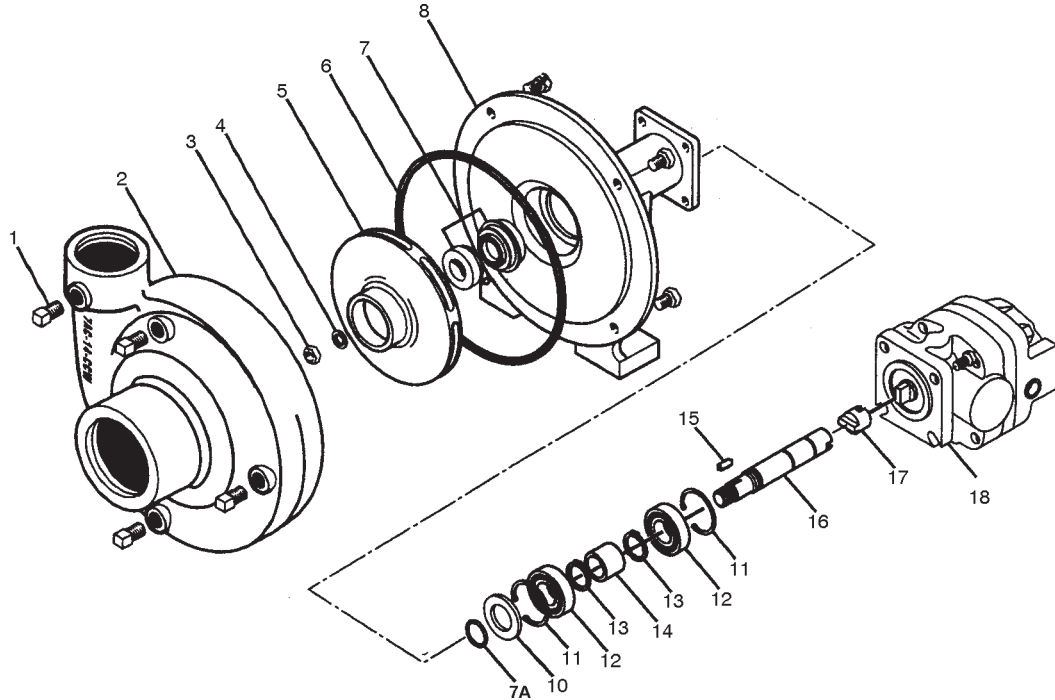
Use the SHUT-OFF pressure of your spraying system to determine which line of data applies. The hydraulic system input pressure and flow will vary within the chart.

MAXIMUM SHUT-OFF PRESSURE - 120 PSI



**FOR PUMP PARTS BREAKDOWN SEE NEXT PAGE**

**A c e F M C - 2 0 0 - H Y D - 3 0 4**



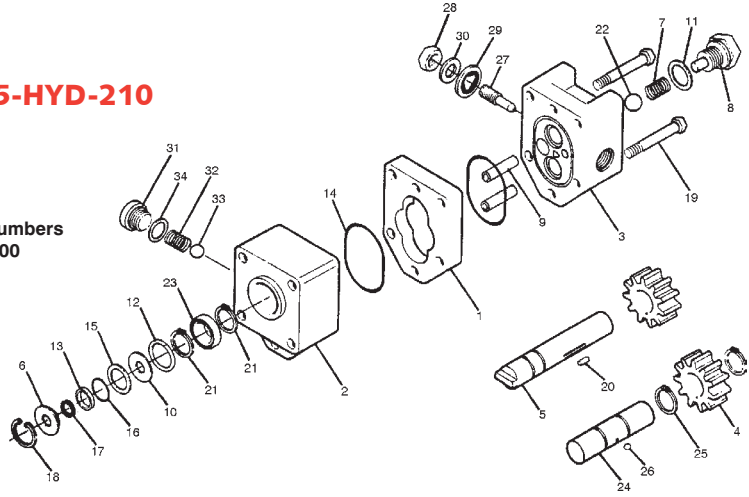
REF. #	PART NO.	REPLACES	DESCRIPTION
1	71572	41110	Pipe plug
1	71573	41120	Pipe plug, stainless steel (optional)
2	71676	7AC-14-CCW	Volute, 2" x 1-1/2
3	71918	BAC-23-A	Nut, 3/8" NF, cad plated
4	71631	BAC-24-HYD-SS	Washer, 3/8" star stainless steel
5	71919	BAC-26-200-CI	Impeller, with extended keyway, cast iron (date code E-9 and up)
5	71675	BAC-26-HYD-200-CI	Impeller, cast iron, keyway
5	70988	BAC-26-200P	Impeller, thermoplastic
*6	71586	BAC-4	Gasket, 4 hole
*6	71920	BAC-4A	O-Ring, body seal, effective April 1996
*7	71585	BAC-7V	Seal, mechanical, Viton (includes 40160 O-Ring)
7	71921	BAC-7SC	Seal, mechanical, silicon carbide (includes 40160 O-Ring (optional))
7A	71622	40160	O-Ring, shaft seal
8	71629	BAC-14-HYD-300	Mounting frame (for -300 series hydraulic motor)
10	71589	BAC-54	Slinger
11	71591	BAC-33	Snap ring, internal, BAC-14 mounting frame
12	71023	BAC-37	Ball Bearing, sealed, BAC-6 shaft
13	71593	BAC-32	Snap ring, external, BAC-6 shaft
14	71625	BAC-32-S	Spacer for BAC-6 shaft
15	71922	BAC-25	Key, 1/8" x 1/8" x 13/16", extended keyway (date code E-9 and up)
15	71632	BACH-25	Key, 1/8" x 1/8" x 1/2"
16	71923	BAC-6-HYD-200-SS	Shaft, extended keyway, tang, stainless steel (date code E-9 and up)
16	71626	BAC-6-HYD	Shaft, 5/8" diameter, keyway and tang slot
16	71627	BAC-6-HYD-SS	Shaft, 5/8" diameter, keyway and tang slot, stainless steel (optional)
16	71798	BACL-6-HYD-SS	Shaft 5/8" w/tang slot SS for lipseal models
17	71644	BAC-76-HYD	Coupling for hydraulic motor
18	71924	BAC-75-HYD-304	Hydraulic motor, 11 GPM
18	77817	BAC-75-HYD-307X	Hydraulic Motor, 19 GPM
#	70674	RK-FMC	Repair kit for FMC series pump
#	70728	RK-BAC-75-HYD-304	Repair kit for 304 motor
#	70729	RK-BAC-75-HYD-304-L	Repair kit for 304-L motor

\*Items included in pump repair kit.

## Ace Hydraulic Motor Parts List

## BAC-75-HYD-204, BAC-75-HYD-206, BAC-75-HYD-210

For motors with serial numbers  
beginning with 40400



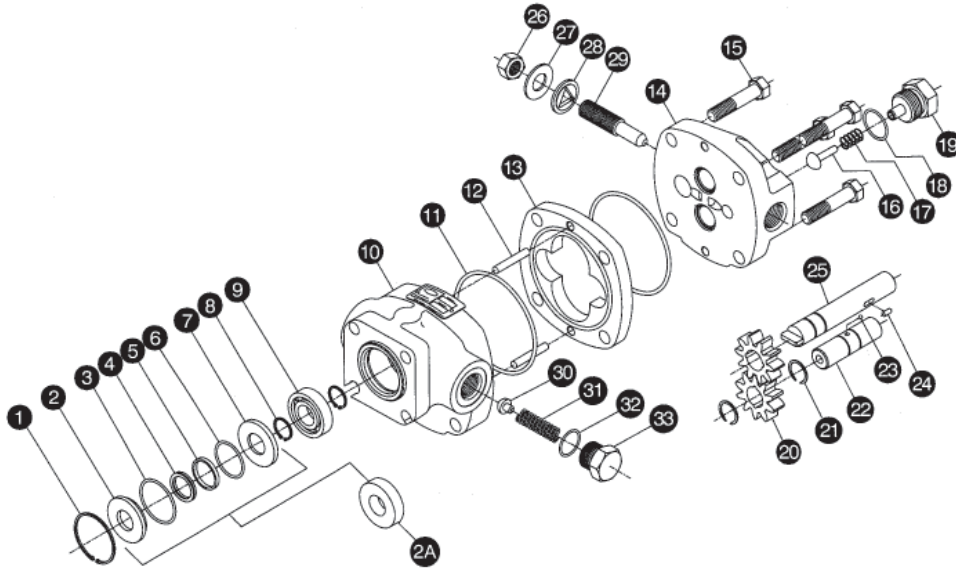
REF NO.	PART NO.	MODEL 204	PART NO.	MODEL 206	PART NO.	MODEL 210	DESCRIPTION
1	71816	41720	71905	41721	71911	41725	Gear housing
2	71817	41731	71817	41731	71817	41731	Drive plate
3	71818	41740	71818	41740	71818	41740	End plate
4	71819	41750	71906	41751	71912	41755	Gear
5	71718	41761	71907	41764	71913	41766	Drive shaft
6	71719	41770	71719	41770	71719	41770	Steel seal retainer
6	78393	40153	78393	40153	78393	40153	Teflon Lip seal kit
7	71715	41780	71715	41780	71715	41780	Spring, reverse flow check
8	71716	41790	71716	41790	71716	41790	Valve cap, reverse flow check
9	71824	41800	71908	41805	71908	41805	Dowel pin, housing
10	71791	41810	71791	41810	71791	41810	Steel backup washer
11	71825	41820	71825	41820	71825	41820	Nylon washer
12	71792	41830	71792	41830	71792	41830	Wire ring bearing spacer
13	71793	41840	71793	41840	71793	41840	Collar, quad ring shaft seal
14*	71803	41850	71803	41850	71803	41850	O-Ring, housing seal
15*	71804	41860	71804	41860	71804	41860	O-Ring, seal retainer
16*	71805	41870	71805	41870	71805	41870	O-Ring, seal collar
17*	71806	41880	71806	41880	71806	41880	Quad ring shaft seal
18	71794	41890	71794	41890	71794	41890	Retaining ring, shaft seal
19	-	41900	-	41900	-	41905	Cap screw, 1/4" N.C. hex head
20	71826	41920	71909	41921	71914	41925	Pin, drive shaft
21	71827	41941	71827	41941	71827	41941	Snap ring, bearing
22	71717	41950	71717	41950	71717	41950	Ball, reverse flow check
23	71802	41961	71802	41961	71802	41961	Ball bearing 7/16" I.D.
24	71828	41970	71910	41971	71915	41975	Idler shaft
25	71809	41980	71809	41980	71809	41980	Retaining ring, idler gear
26	71829	41990	71829	41990	71829	41990	Ball, idler shaft
27	71801	42010	71801	42010	71801	42010	Adjusting screw, needle valve
28	-	40960	-	40960	-	40960	3/8" N.C. jam nut, needle valve
29*	71650	42030	71650	42030	71650	42030	3/8" thread seal, needle valve
30	71651	42040	71651	42040	71651	42040	Flat steel backup washer, needle valve
31	71810	42041	71810	42041	71810	42041	Valve cap, coasting check
32	71830	42042	71830	42042	71830	42042	Spring, coasting check
33	71811	42043	71811	42043	71811	42043	Ball, coasting check
34*	71812	42044	71812	42044	71812	42044	O-Ring, coasting check
	70675	41371	70675	41371	70675	41371	Repair kit, RK-BAC-75-HYD

\* Items included in repair kit



**Ace Hydraulic Motor Parts List**

**BAC-75-HYD-304, BAC-75-HYD-304L, BAC-75-HYD-310**



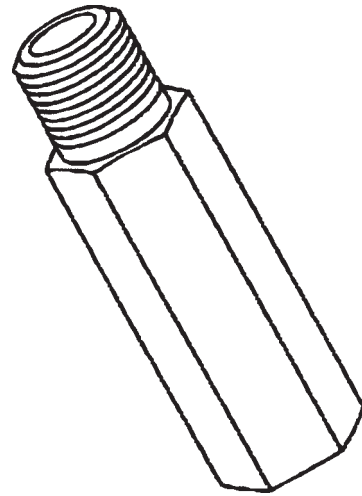
Ref #	Part No.	Model 304	Part No.	Model 310	Description	Required
1	77806	43175	77845	43170	Retaining ring, shaft seal	1
2	77807	43051	78415	43050	Steel seal retainer	1
2A	77844	40154	—	—	Hydraulic seal cartridge for -304L (replaces REF#2-7)	1
3	77846	43141	77847	43140	O-Ring, seal retainer	1
4	77848	43161	77849	43160	Quad ring shaft seal	1
5	77850	43125	77851	43120	Collar, quad ring shaft seal	1
6	77852	43151	77853	43150	O-Ring, seal collar	1
7	77854	43095	78417	43090	Backup washer	1
8	77855	43205	77856	43200	Retaining ring, bearing	2
9	77857	43225	77858	43220	Ball bearing	1
10	77859	43015	77860	43010	Drive plate	1
11	77861	43130	77861	43130	O-Ring, housing seal	2
12	77862	43085	77863	43080	Dowel pin, housing	2
13	77864	43005	77865	43000	Gear Housing	1
14	77865	43020	77866	43020	End plate	1
15	77867	43185	77868	43180	Cap screw, 3/8" N.C. hex head	4
16	77869	43210	77869	43210	Plunger, reverse flow check	1
17	77870	43060	77870	43060	Spring, reverse flow check	1
18	77871	43290	77871	43290	O-Ring, reverse flow check	1
19	77872	43070	77872	43070	Valve cap, reverse flow check	1
20	77873	43035	77874	43030	Gear	2
21	77875	43240	77875	43240	Retaining ring, gear	2
22	77876	43235	77877	43230	Idler shaft	1
23	77878	43255	77879	43250	Ball, idler shaft	1
24	77880	43195	77881	43190	Dowel pin, drive shaft	1
25	77810	43045	77882	43040	Drive shaft	1
26	77883	43270	77883	43270	Hex nut, needle valve	1
27	77884	43292	77884	43292	Flat steel backup washer, needle valve	1
28	70989	43291	70989	43291	1/2" thread seal, needle valve	1
29	77885	43260	77885	43260	Adjusting screw, needle valve	1
30	77886	43300	—	—	Plunger, coasting check	1
31	77887	43305	—	—	Spring, coasting check	1
32	77888	43310	—	—	O-Ring, coasting check	1
33	77889	43315	—	—	Valve cap, coasting check	1
	70728	041361	70676	041379	Motor repair kit, RK-BAC-75-HYD-304 or -310	—
	70729	041365	—	—	Motor repair kit, RK-BAC-75-HYD-304L	—

## Ace Flow Limiter Valve

**FOR USE ON LOAD SENSING OR PRESSURE-FLOW COMPENSATING CLOSED CENTER SYSTEMS**

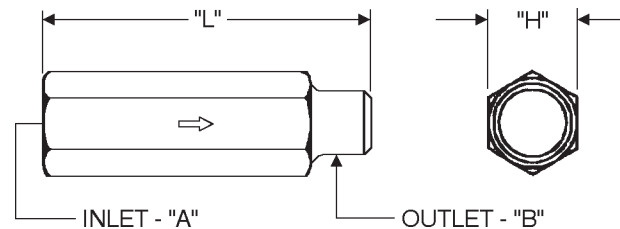
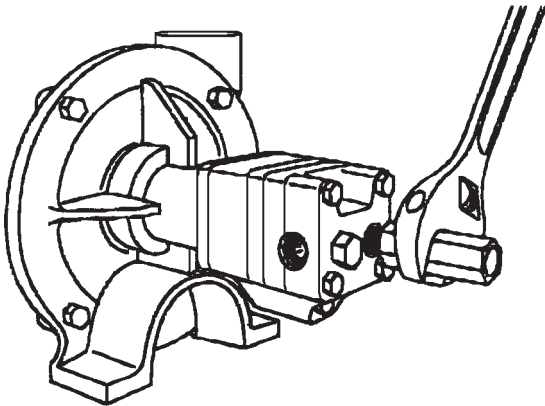
### MODEL LS

- Installs in Ace Hydraulic Motor Inlet Port
- Shuts off all hydraulic flow through valve when the motor's capacity is exceeded
- Protects Motor from overspeeding
- Automatically resets when hydraulic pressure is released
- Sizes available for all Ace models recommended for use on this hydraulic system



### MODEL CHART

PUMP MODEL	FLOW LIMITER	PART NO.
FMC-HYD-204	LS204	71863
FMC-HYD-210	LS210	71864
FMC-150-HYD-206	LS206	71808
FMC-200-HYD-210	LS210-200	71864
FMC-HYD-304	LS304	71865



MOTOR MODEL	"A"/"B"	"L"	"H"
200 Series	3/8" NPT	3 1/4"	7/8"
300 Series	1/2" NPT	3 5/16"	1 1/8"

The flow limiter is a hydraulic device designed to shut off the flow of hydraulic oil when a specified flow is exceeded. On tractors with LOAD SENSING (LS) Closed Centre hydraulic systems, this device limits the flow of oil to the Ace motor and prevents failures due to misapplication.

The new Case-IH, John Deere, New Holland, and CAT tractors, present a great potential to turn the motors beyond their rated speeds. Flows out of the hydraulic valves can exceed 20 GPM while the motors are rated at 4-11 GPM. The flow limiter protects the ACE motor by shutting off when hydraulic flows exceed the motors capacity.

The flow limiter should not be used on OPEN Center or PRESSURE COMPENSATING Closed Center hydraulic systems. The flow limiter should not be used with a restrictor orifice.

**Ace Frame Mounted Centrifugal Pumps**

**COUNTER CLOCKWISE ROTATION - CCW (WHEN FACING SHAFT)**

<b>PART NO.</b>
SPP 70205
<b>PUMP REPAIR KIT</b>
SPP 70674

PUMP SHAFT SPEED	PRESSURE								
	20 PSI GPM	40 PSI GPM	60 PSI GPM	80 PSI GPM	100 PSI GPM	120 PSI GPM	140 PSI GPM	160 PSI GPM	MAX HP
3200 RPM	55	30	-	-	-	-	-	-	1.0
3800 RPM	63	50	20	-	-	-	-	-	1.7
4400 RPM	75	63	60	38	-	-	-	-	3.0
5000 RPM	75	68	62	57	45	10	-	-	4.2
6000 RPM	75	70	67	65	63	62	58	38	6.8



<b>PART NO.</b>
SPP 70208
<b>PUMP REPAIR KIT</b>
SPP 70679

PUMP SHAFT SPEED	PRESSURE								
	20 PSI GPM	40 PSI GPM	60 PSI GPM	80 PSI GPM	100 PSI GPM	120 PSI GPM	140 PSI GPM	160 PSI GPM	MAX HP
3200 RPM	77	45	-	-	-	-	-	-	1.5
3800 RPM	96	80	38	-	-	-	-	-	4.0
4400 RPM	112	105	90	60	-	-	-	-	6.0
5200 RPM	130	125	116	105	85	46	-	-	10.0
6000 RPM	160	150	140	130	114	100	72	37	15.0



<b>PART NO.</b>
SPP 70206
<b>PUMP REPAIR KIT</b>
SPP 70674

PUMP SHAFT SPEED	PRESSURE						MAX HP
	20 PSI GPM	30 PSI GPM	40 PSI GPM	60 PSI GPM	80 PSI GPM	100 PSI GPM	
2800 RPM	100	50	-	-	-	-	1.7
3200 RPM	125	105	97	-	-	-	3.2
3600 RPM	140	130	121	-	-	-	4.0
4000 RPM	160	145	138	105	-	-	5.3
4600 RPM	180	170	163	150	70	40	7.5



**PUMP PARTS BREAKDOWN SEE NEXT PAGE**

**A c e F M C a n d F M C - 2 0 0**

**ACE FMC AND FMC-200**

**1 1/4" X 1 2" X 1 1/2"**

**FRAME MOUNTED CENTRIFUGAL PUMPS,  
COUNTERCLOCKWISE ROTATION**

REF	PART NO.	REPLACES	DESCRIPTION	REQ. FMC FMC -200	
1	71586*	BAC-4	Gasket, 4 hole	1	1
2	71600	BAC-6	5/8" driven shaft, left hand thread	1	
2	71653	BAC-6-150/200	5/8" driven shaft with keyway	1	
2	71601	BAC-6-SS	5/8" driven shaft, left hand thread, stainless steel (optional)		1
2	71797	BACL-6-SS	5/8" SS Shaft LH Thread for lip seal models		
3	71584	BAC-7B	Buna-N mechanical seal (includes 40160 O-Ring) (optional)	1	1
3	71585*	BAC-7V	Viton mechanical seal (includes 40160 O-Ring)	1	1
3	71921	BAC-7SC	Silicon carbide mechanical seal c.w O-Ring. This material is resistant to scratching by abrasive particles in spray solution	1	1
#	71622*	40160	O-ring for BAC-6 shaft	1	1
5	71580	BAC-12	Volute, 1 1/4" x 1"		1
5	71676	7AC-14-CCW	Volute, 2" x 1 1/2" (for FMC200 and FMC-200-HYD)	1	
6	71682	BAC-14-MAG	Mounting frame, machined to accept magnetic clutch assembly	1	1
6	71588	BAC-14-MIA	Mounting frame, machined for idler arm	1	1
7	71630	BAC-23-SS	3/8" NF hex nut, stainless steel	1	
8	71631	BAC-24-HYD-SS	3/8" washer, stainless steel	1	
9	71632	BACH-25	1/8" x 1/8" x 1/2" key	1	
10	71583	BAC-26-VALOX	Impeller, Valox, left hand thread		1
10	71582	BAC-26-CI	Impeller, cast iron, left hand thread (optional)		1
10	71675	41525	5 1/2" Impeller cast iron, with keyway (for FFMC-200-HYD)	1	
11	71593	BAC-32	External snap ring, BAC-6 driven shaft	2	2
12	71625	BAC-32-S	Spacer for BAC-6 shaft	1	1
13	71591	BAC-33	Internal snap ring, BAC-14 mounting frame	2	2
14	71023	BAC-37	Sealed ball bearing, BAC-6 driven shaft	2	2
15	71587	40930	3/8" NC x 3/4" hex head cap screw stainless steel (optional)	4	4
16	71572	41110	1/8" NPT pipe plug	3	3
16	71573	41120	1/8" NPT pipe plug, stainless steel (optional)	3	3
17	71602	BAC-50	3/16" x 3/16" x 1 1/4" key	1	1
18	71589	BAC-54	Slinger	1	1

**FMC-150**

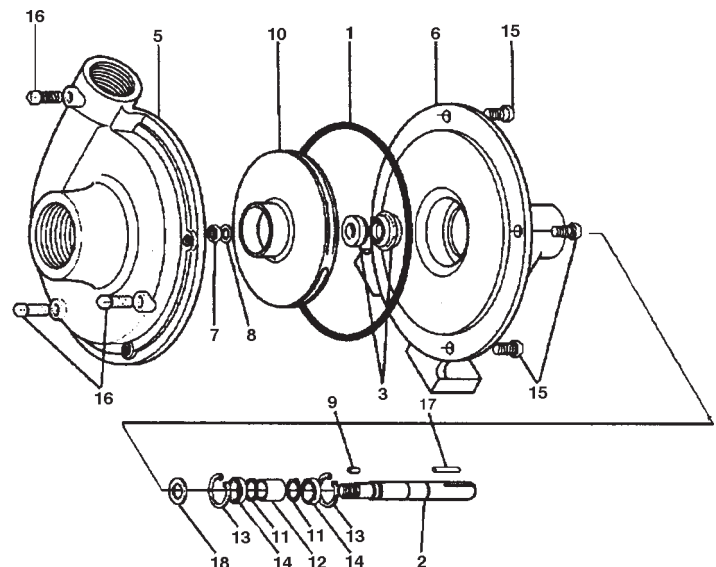
**1 1/2" X 1 1/4"**

**FRAME MOUNTED CENTRIFUGAL PUMPS,  
COUNTERCLOCKWISE ROTATION**

REF	PART NO.	REPLACES	DESCRIPTION	REQ
1	71652*	BAC-4-150	O-Ring, volute seal	1
2	71653	BAC-6-150/200	5/8" driven shaft with keyway	1
3	71585*	BAC-7V	Viton mechanical seal (includes 40160 O-Ring)	1
#	71622*	40160	O-Ring for BAC-6 shaft	1
5	71657	BAC-12-150	Volute, 1 1/2" x 1 1/4"	1
6	71684	BAC-14-150-MAG	Mounting frame, machined to accept magnetic clutch assembly	1
6	71683	BAC-14-150-MIA	Mounting frame, machined for idler arm	1
7	71630	BAC-23-SS	3/8" NF hex nut, stainless steel	1
8	71631	BAC-24-HYD-SS	3/8" washer, stainless steel	1
9	71632	BACH-25	1/8" x 1/8" x 1/2" key	1
10	71658	BAC-26-150	Impeller, Cast iron, with keyway	1
11	71593	BAC-32	Internal snap ring, BAC-6 driven shaft	2
12	71625	BAC-32-S	Spacer for BAC-6 driven shaft	1
13	71591	BAC-33	Internal snap ring, BAC-14 mounting frame	2
14	71023	BAC-37	Sealed ball bearing, BAC-6 driven shaft	2
15	71587	40930	3/8" NC x 3/4" hex head cap screw	4
16	71572	41110	1/8" NPT pipe plug	3
16	71573	41120	1/8" NPT pipe plug, stainless steel (optional)	3
17	71602	BAC-50	3/16" x 3/16" x 1 1/4" key	1
18	71589	BAC-54	Slinger	1

\* Items included in repair kit

# Not shown in exploded view drawing



**Ace Frame Mounted Centrifugal Pumps**

**CLOCKWISE ROTATION-CW (WHEN FACING SHAFT)**

**FMC-CW-150**

**1½" X 1¼"**

**SUCTION DISCHARGE**

**5/8" SHAFT**

<b>PART NO.</b>
SPP 70209
<b>PUMP REPAIR KIT</b>
SPP 70674

PUMP SHAFT SPEED	PRESSURE						MAX HP GPM
	20 PSI GPM	30 PSI GPM	40 PSI GPM	60 PSI GPM	80 PSI GPM	100 PSI GPM	
3200 RPM	70	55	5	-	-	-	1.4
3800 RPM	75	70	60	10	-	-	1.8
4400 RPM	80	78	72	60	-	-	3.0
5200 RPM	80	80	78	75	70	30	4.7



**FMC-CW-200**

**2" X 1½"**

**SUCTION DISCHARGE**

**5/8" SHAFT**

<b>PART NO.</b>
SPP 70214
<b>PUMP REPAIR KIT</b>
SPP 70674

PUMP SHAFT SPEED	PRESSURE					MAX HP
	20 PSI GPM	30 PSI GPM	40 PSI GPM	60 PSI GPM	80 PSI GPM	
2800 RPM	100	40	-	-	-	1.7
3200 RPM	125	100	90	-	-	3.0
3600 RPM	140	125	110	-	-	3.7
4000 RPM	160	140	135	90	-	4.5
4600 RPM	180	165	160	140	60	7.0



**FMC-CW-800**

**2" X 1½"**

**SUCTION DISCHARGE**

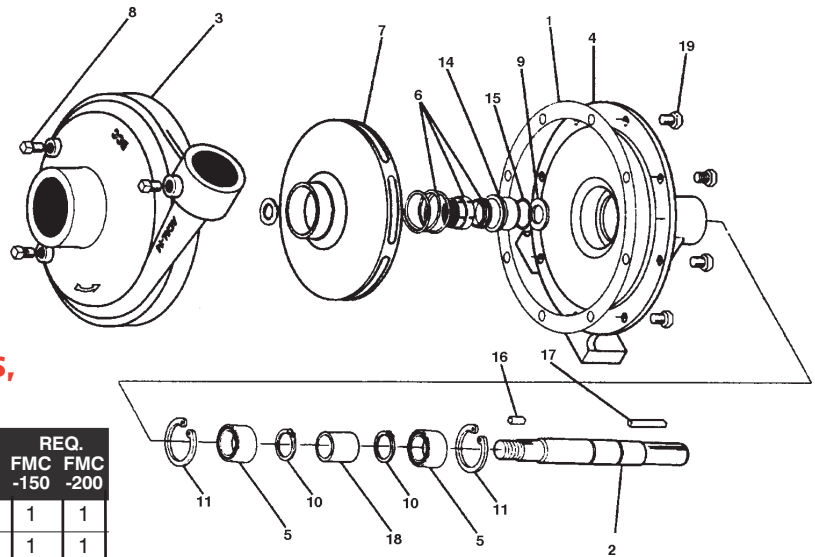
<b>PART NO.</b>
SPP 70215
<b>PUMP REPAIR KIT</b>
SPP 70682

PUMP SHAFT SPEED	PRESSURE								
	20 PSI GPM	40 PSI GPM	60 PSI GPM	80 PSI GPM	100 PSI GPM	120 PSI GPM	140 PSI GPM	160 PSI GPM	MAX HP
3200 RPM	160	150	130	80	10	-	-	-	6.5
3600 RPM	180	180	150	120	60	40	-	-	8.0
3800 RPM	180	180	175	150	120	80	30	-	10.0
4000 RPM	180	180	180	170	150	100	70	-	12.5
4200 RPM	180	180	180	180	170	140	100	50	14.2



**PUMP PARTS BREAKDOWN SEE NEXT PAGE**

**Ace FMC-CW-150 and FMC-CW-200**



1 1/2" X 1 1/4"  
2" X 1 1/2"

**FRAME MOUNTED CENTRIFUGAL PUMPS, CLOCKWISE ROTATION**

REF	PART NO.	REPLACES	DESCRIPTION	REQ.	
				FMC -150	FMC -200
1	71586*	BAC-4	Gasket, 4 hole	1	1
2	71687	41480	5/8" driven shaft, R.H. thread	1	1
3	71685	6AC-12	Volute, 1 1/2" x 1 1/4", clockwise rotation	1	-
3	71686	7AC-14-4	Volute, 2" x 1 1/2", clockwise rotation	-	1
4	71682	BAC-14-MAG	Mounting frame, machined to accept magnetic clutch assembly	1	1
4	71588	BAC-14-MIA	Mounting frame, machined for idler arm	1	1
6	71584	BAC-7B	Buna-N mechanical seal (includes 40160 O-Ring) (optional)	1	1
6	71585*	BAC-7V	Viton mechanical seal (includes 40160 O-Ring)	1	1
6	71921	BAC-7SC	BAC-75C silicon carbide mechanical seal c/w O-Ring. This material is resistant to scratching by abrasive particles in spray solution	1	1
7	71780	41510	Impeller valox, R.H. thread	1	-
7	71781	41515	Impeller, cast iron R.H. thread	1	-
7	71782	41520	Impeller, cast iron R.H. thread	-	1
8	71572	41110	1/8" NPT pipe plug	3	3
8	71573	41120	1/8" NPT pipe plug, stainless steel (optional)	3	3
9	71589	BAC-54	Slinger	1	1
10	71593	BAC-32	External snap ring, BAC-6 driven shaft	2	2
11	71591	BAC-33	Internal snap ring, BAC-14 mounting frame	2	2
15	71622*	40160	O-Ring for BAC-6 shaft	1	1
17	71602	BAC-50	3/16" x 3/16" x 1 1/4" key	1	1
18	71625	BAC-32-S	Spacer for BAC-6 shaft	1	1
19	71587	40930	3/8" NC x 3/4 hex head cap screw, stainless steel (optional)	4	4
#	71023	BAC-37	Sealed ball bearing, BAC-6 driven shaft	2	2

**FMC-CW-800  
2" X 1 1/2"**

**FRAME MOUNTED CENTRIFUGAL PUMPS, CLOCKWISE ROTATION**

REF	PART NO.	REPLACES	DESCRIPTION	REQ
1	71694*	9000	Gasket, 8 hole	1
2	71688	ALCAL-6	Shaft, stainless steel (for FMC-CW-800)	1
3	71689	ACAL-14	Volute, 2" x 1 1/2", clockwise rotation	1
4	71690	ACAL-15	Mounting frame	1
5	71032	10650	Ball bearing, sealed	2
6	71692*	30255	.984" Viton mechanical seal	1
7	71693	ACAL-26-75	Impeller, 8" diameter, with keyway	1
8	71572	41110	1/8" NPT pipe plug	3
8	71573	41120	1/8" NPT pipe plug, stainless steel (optional)	3
9	71574	GE-54	Slinger	1
10	71696	BACG-32	External snap ring, BACG-6-SS-A driven pinion shaft	2
11	71697	BACG-33	Internal snap ring, BACG-14-A mounting frame	2
14	71698	BACG-90M	Seal cartridge for mechanical seal	1
15	71699*	13300-90	O-Ring	2
16	71695	41079	3/16" x 3/16" x 1/2" impeller key	2
17	71602	BAC-50	3/16" x 3/16" key	1
18	71691	ACAL-32-S	Bearing spacer for ACAL-6 shaft	1
19	71587	40930	3/8" NC x 3/4" hex head cap screw	8

\* Items included in repair kit

# Not shown in exploded view drawing

**Ace Magnetic Clutch Centrifugal Pumps**

**COUNTERCLOCKWISE ROTATION-CCW (WHEN FACING SHAFT)**

**FMC-MAG**  
**1 1/4" X 1"**  
**SUCTION DISCHARGE**

<b>PART NO.</b>
SPP 70232
<b>PUMP REPAIR KIT</b>
SPP 70674

PUMP SHAFT SPEED	PRESSURE						MAX HP
	20 PSI GPM	40 PSI GPM	60 PSI GPM	80 PSI GPM	100 PSI GPM	120 PSI GPM	
3200 RPM	55	30	-	-	-	-	1.0
3800 RPM	63	50	20	-	-	-	1.7
4400 RPM	75	63	60	38	-	-	3.0
5200 RPM	75	70	65	61	50	15	4.2



**FMC-150-MAG**  
**1 1/2" X 1 1/4"**  
**SUCTION DISCHARGE**

<b>PART NO.</b>
SPP 70233
<b>PUMP REPAIR KIT</b>
SPP 70679

PUMP SHAFT SPEED	PRESSURE						MAX HP
	20 PSI GPM	40 PSI GPM	60 PSI GPM	80 PSI GPM	100 PSI GPM	120 PSI GPM	
3200 RPM	77	45	-	-	-	-	1.5
3800 RPM	96	80	38	-	-	-	4.0
4400 RPM	112	150	60	60	-	-	6.0
5200 RPM	130	125	116	105	85	46	10.0



**FMC-200-MAG**  
**2" X 1 1/2"**  
**SUCTION DISCHARGE**

<b>PART NO.</b>
SPP 70234
<b>PUMP REPAIR KIT</b>
SPP 70674

PUMP SHAFT SPEED	PRESSURE						MAX HP
	20 PSI GPM	30 PSI GPM	40 PSI GPM	60 PSI GPM	80 PSI GPM	100 PSI GPM	
3200 RPM	125	105	97	-	-	-	3.2
3600 RPM	140	130	121	-	-	-	4.0
4000 RPM	160	145	138	105	-	-	5.3
4600 RPM	180	170	163	150	70	40	7.5



**PUMP PARTS BREAKDOWN SEE PAGE 1-38**

**MAGNETIC CLUTCH PARTS FOR FMC, FMC-150 AND FMC-200 MODELS**

PART NO.	REPLACES	DESCRIPTION	REQ.
71783	41475	Magnetic clutch assembly, rated at 13 ft/lbs and 10 h.p. at 4000 RPM (standard clutch)	1
71784	41476	Coil ring, 12 volt DC activated (for standard clutch)	1
71785	41477	Spacer, (for standard clutch)	1

**Ace Magnetic Clutch Centrifugal Pumps**

**CLOCKWISE ROTATION-CW (WHEN FACING SHAFT)**

**FMC-CW-150-MAG**

**1 1/2" X 1 1/4"**

**SUCTION DISCHARGE**

<b>PART NO.</b>	SPP 70235
<b>PUMP REPAIR KIT</b>	SPP 70674

PUMP SHAFT SPEED	PRESSURE						MAX HP
	20 PSI GPM	30 PSI GPM	40 PSI GPM	60 PSI GPM	80 PSI GPM	100 PSI GPM	
3200 RPM	70	55	5	-	-	-	1.4
3800 RPM	75	71	60	10	-	-	1.8
4400 RPM	80	78	72	60	-	-	3.0
5200 RPM	80	80	78	75	70	30	4.7



**FMC-CW-200-MAG**

**2" X 1 1/2"**

**SUCTION DISCHARGE**

<b>PART NO.</b>	SPP 70236
<b>PUMP REPAIR KIT</b>	SPP 70674

PUMP SHAFT SPEED	PRESSURE						MAX HP
	20 PSI GPM	30 PSI GPM	40 PSI GPM	60 PSI GPM	80 PSI GPM	100 PSI GPM	
2800 RPM	100	40	-	-	-	-	1.7
3200 RPM	125	100	90	-	-	-	3.0
3600 RPM	140	125	110	-	-	-	3.7
4000 RPM	160	140	135	90	-	-	4.5
4600 RPM	180	165	160	140	60	-	7.0



**FMC-CW-800-MAG**

**2" X 1 1/2"**

**SUCTION DISCHARGE**

<b>PART NO.</b>	SPP 70237
<b>PUMP REPAIR KIT</b>	SPP 70682

PUMP SHAFT SPEED	PRESSURE								MAX HP
	20 PSI GPM	40 PSI GPM	60 PSI GPM	80 PSI GPM	100 PSI GPM	120 PSI GPM	140 PSI GPM	160 PSI GPM	
3200 RPM	160	150	130	80	10	-	-	-	6.5
3600 RPM	180	180	150	120	60	40	-	-	8.0
3800 RPM	180	180	175	150	120	80	30	-	10.0
4000 RPM	180	180	180	170	150	100	70	-	12.5
4200 RPM	180	180	180	180	170	140	100	50	14.2



Equipped with heavy duty magnetic clutch which draws 2 amps and is capable of transmitting 23 HP at 4,000 RPM.

**PUMP PARTS BREAKDOWN SEE PAGE 1-40**

**MAGNETIC CLUTCH PARTS FOR FMC-CW-800-MAG**

PART NO.	REPLACES	DESCRIPTION	REQ.
71786	41479	5 1/4" pulley assembly complete with bearing and clutch driver (for standard clutch)	1
71787	41485	Magnetic clutch assembly, rated for 30 ft/lb torque and 23 HP at 4000 rpm (for use with FMC-CW-800-MAG)	1
71788	41486	5" pulley assembly complete with bearing and clutch driver (for use with FMC-CW-800-MAG)	1
71789	41487	Coil ring, 12 volt DC activated (for use with the FMC-CW-800-MAG)	1
71790	41489	Spacer, (for use with the FMC-CW-800-MAG)	1



**Delavan Centrifugal Pump**

**TRACTOR HYDRAULIC SYSTEM DRIVEN**



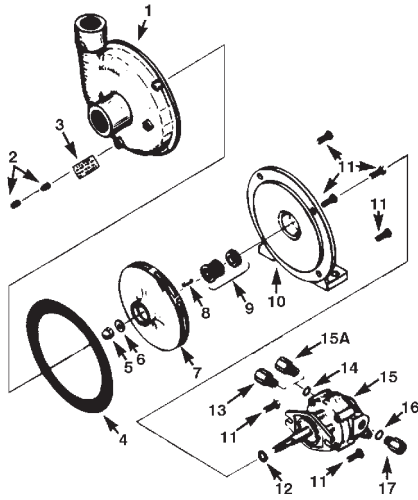
Features: Common shaft eliminates the need for external couplings or bearing. Viton pump seals are standard. Nylon impeller reduces wear and resists corrosion. Compact size allows for a range of installation points. Delavan centrifugal pumps use high quality Gresen motors. The hydraulic motors can be adapted to operate on either “open-center” or “closed-center” tractor hydraulic systems. Pump assembly #34945 (with #35277 metering orifice installed in the inlet port of the motor) can be used on a closed-center hydraulic system. All models can be used on open-center hydraulic systems. For pump/motor #34945-1, a minimum of 4 gpm and a maximum of 12 gpm of hydraulic fluid input at 1260 psi is required for the pump to operate at rated capacity. For pump/motor #35566-1, a minimum of 11 gpm and a maximum of 18 gpm at 600 psi is required. For pump/motor #46818-1, a minimum of 17 gpm and a maximum of 24 gpm at 600 psi is required.

PART NO.	REPLACES	HYDRAULIC OIL FLOW	TRACTOR HYDRAULIC SYSTEM
70210	34945-1	15-45 L/min @ 8600 kPa 4-12 gpm @ 1250 psi	Closed & Open
70211	35566-1	42-68 L/min @ 4100 kPa 11-18 gpm @ 600 psi	Open

**PUMP CAPACITIES (BASED ON WATER)**

MODEL	20 PSI GPM	40 PSI GPM	60 PSI GPM
34945	51	37	24
35566	59	47	29

Contact your Westward Parts order desk for more information on selecting the correct centrifugal pump for current model tractors.



**REPAIR KIT FOR CENTRIFUGAL PUMP & ORBIT MOTOR**

PART NO.	REPLACES	DESCRIPTION	QTY./KIT
70608	35745	Pump repair kit	
70609	38109-1	Orbit bearing and seal kit (Gresen)	
70610	38109-2	Orbit seal kit (Gresen motor)	
70611	38109-3	Orbit check valve kit (Gresen motor)	
70612	38109-4	Orbit bypass valve kit (Gresen motor)	
70618	36634	External bypass kit	
PART NO.	REPLACES	DESCRIPTION	QTY./KIT
70865	34912	Pump gasket	1
70866	34944	Cap locknut	1
70867	34942	Washer	1
70870	34943	Face seal assembly	1
70873	35278	Gasket slinger	1

**REPLACEMENT PARTS FOR CENTRIFUGAL PUMP**

REF.	PART NO.	REPLACES	DESCRIPTION	QTY.
1	70862	34907	Volute casing	1
4	70865	34912	Pump gasket	1
5	70866	34944	Cap locknut	1
6	70867	34942	Washer	1
7	70868	34915-2	Impeller assembly	1
8	70869	34941	Impeller key	1
9	70870	34943	Face seal assembly	1
10	70871	34908	Mounting support	1
11	70872	34916	Cap screw	6
12	70873	35278	Gasket slinger	1
13	70874	35312	Adapter	1
14	70875	31351-15	O-Ring	2
15	70876	35564-1	Hydraulic motor - 34945-1 assy.	1
15	70877	35564-2	Hydraulic motor - 35566-1 assy.	1
15A	70878	35277-P	Metering orifice (34945-1 only)	1
17	70880	35776	Adapter	1

**Hydro Centrifugal Pump**

**TRACTOR HYDRAULIC SYSTEM DRIVEN**

Mounting almost anywhere on tractor or sprayer, series 9300 becomes part of the vehicle's hydraulic system and frees the PTO for other uses. "Close-coupled" design reduces mounting space – a single stainless steel shaft is common to both pump and motor.

Pump construction: Epoxy-coated cast iron housing, nylon impeller, two needle main bearings and an outboard, double sealed factory-lubricated ball bearing. Viton sealing element standard.

PART NO.	REPLACES	CLOSED CENTER	OPEN CENTER	HYDRAULIC MOTOR PART NO.	REPLACE
70220	9303C-HM1C	No	Yes	71439	2500-0009C
70221	9303C-HM2C	Yes	No	71440	2500-0010C
70222	9303C-HM3C	No	Yes	71441	2500-0011C
70223	9303C-HM4C	Yes	No	71442	2500-0012C
70272	9303C-HM5C	Yes	Yes	70929	2500-0018C

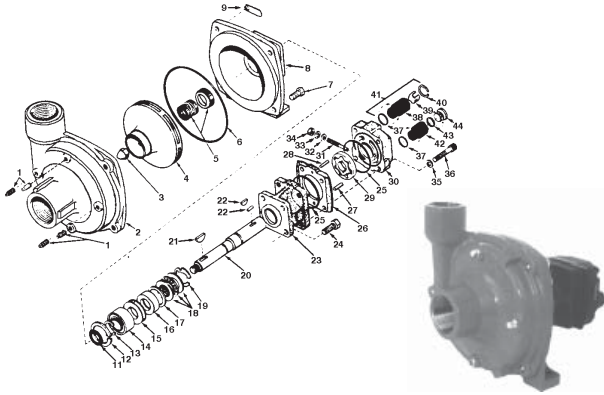
Port Size: 1 1/2" inlet, 1 1/4" outlet

Weight: 21 lbs.

PART NO.	REPLACES	CLOSED CENTER	OPEN CENTER	HYDRAULIC MOTOR PART NO.	REPLACES
70224	9304C-HM5C	Yes	Yes	70929	2500-0018C
70275	9304C-HM1C	Yes	Yes	71439	2500-0009C
70276	9304C-HM3C	No	Yes	71441	2500-0011C

Port Size: 2" inlet, 1 1/2" outlet

Weight: 21 lbs.



**REPAIR KITS FOR ORBIT MOTOR**

PART NO.	REPLACES	DESCRIPTION
70639	3430-0178	Parts repair kit HM1, HM2, HM3, HM4, HM5 Parts kit contains: one each ball bearing (ref. 14), motor shaft seal (ref.16) thread seal gasket (ref.32) and washer (ref. 33), two each motor housing O-Rings (ref. 25) and port adapter O-Rings (ref. 37)
70640	3430-0187	Adapter kit for HM4 models only Adapter kit includes: one each ref. 37, ref 42 and ref. 44, and three of ref. 43

- 9303C-HM1: Output to 120 gpm - pressure to 180 psi - 10 gpm hyd. motor
- 9303C-HM2: Output to 95 gpm - pressure to 100 psi - 5 gpm hyd. motor
- 9303C-HM3: Output to 120 gpm - pressure to 100 psi - 20 gpm hyd. motor
- 9303C-HM4: Output to 110 gpm - pressure to 100 psi - 7 gpm hyd. motor
- 9303C-HM5C: Output to 147 gpm-pressure to 145 psi-15 gpm hyd motor
- 9304C-HM1C: Output to 210 gpm -pressure to 115 psi - 10 gpm hyd motor
- 9304C HM3C: Output to 190 gpm - pressure to 80 psi- 20 gpm hyd motor
- 9304C-HM5: Output to 200 gpm - pressure to 90 psi - 15 gpm hyd motor

**REPLACEMENT PARTS FOR CENTRIFUGAL PUMP**

REF.	PART NO.	REPLACES	DESCRIPTION	QTY. REQ.
1	71176	2406-0007	Drain/vent plug	4
1	71177	2406-0016	Drain/vent plug (for Valox)	4
2	71178	0150-9000C	Pump casing (volute)	1
2	71234	0150-9200C	Pump casing (volute)fits 9304	
3	71179	2253-0002	Impeller nut	1
3	71180	2253-0006	Impeller nut (for Valox)	1
4	71181	0402-9100P	Impeller (polypropylene)fits 9303	1
4	71380	0401-9100P	Impeller (nyglass std.) fits 9303	
4	70990	0401-9200C	Cast iron Impeller Fits 9304	
5	71182	2120-0009	Mechanical seal Viton 9303 Model	1
5	71235	2120-0008	Mechanical seal Buna-N 9301 Models	
6	71236	1720-0083	O-Ring	1
7	71184	2210-0020	Hex head capscrew	4
8	71185	0750-9300C	Mounting flange	1
11	71186	1410-0056	Slinger ring	1
12	71187	1820-0013	Retaining ring	1
13	71188	1810-0014	Snap ring	1
14	71023	2000-0010	Ball bearing	1
15	71190	1410-0073	Spacer	1
16	71191	2104-0005	Shaft seal	1
17	71192	1410-0074	Seal spacer	1
18	71193	2029-0014	Thrust bearing assy (w/2 races)	1
19	71194	1810-0026	Snap ring	1
20	71195	0509-2500	Shaft (HM2 - HM4 models)	1
20	71196	0511-2500	Shaft (HM1 models)and HMS	1
20	71197	0510-2500	Shaft (HM3 models)	1
21	71198	1610-0012	Woodruff key	1
22	71199	1610-0032	Roll pin (HM2 & HM4 models)	1
23	71200	0151-2500A	Front motor body (w/main bearing)	1
24	71036	2210-0005	Hex head capscrew	4
25	71201	1720-0110	O-Ring	2
26	71202	07012500A	Gerotor housing (HM2 models)	1
26	71203	0700-2500A	Gerotor housing (HM1 models)	1
26	71204	0703-2500A	Gerotor housing (HM4 models)	1
26	71205	0702-2500A	Gerotor housing (HM3 models)	1
26	71714	0704-2500C	Gerotor Housing (HM5C)	
27	71206	1600-0045	Dowel pin (HM2 & HM4 models)	1
27	71207	1600-0044	Dowel pin (HM1 & HM5 models)	1
27	71208	1600-0052	Dowel pin (HM3 models)	1
28	71209	1600-0042	Dowel pin (HM2 & HM4 models)	1
28	71210	1600-0037	Dowel pin (HM1 & HM5 models)	1
28	71211	1600-0051	Dowel pin (HM3 models)	1
29	71212	3900-0023	Gerotor (HM2 models)	1
29	71213	3900-0022	Gerotor (HM1 models)	1
29	71214	3900-0025	Gerotor (HM4 models)	1
29	71215	3900-0024	Gerotor (HM3 models)	1
29	77809	3900-0048	Gerotor (HM5C)	
30	71216	0251-2500A	Motor end plate (w/main bearing)	1
31	71217	3220-0029	Bypass adjusting screw	1
32	71218	1700-0047	Gasket	1
33	71219	2270-0027	Washer	1
34	71220	2250-0038	Lock nut	1
35	71221	2270-0039	Washer	4
36	71222	2220-0045	Capscrew (HM2 & HM4 models)	4
36	71223	2220-0021	Capscrew (HM1 models)	4
36	71224	2220-0044	Capscrew (HM3 models)	4
37	71225	1720-0108	O-Ring	2
38	71226	3320-0016	Tank port adapter	1
39	71227	3260-0039	Poppet	1
40	71228	1820-0023	Retaining ring	1
41	71229	3320-0015	Tank check valve assembly (includes O-Ring, tank port, adapter poppet, retaining ring)	1
42	71230	3360-0021	Pressure port adapter	1
43	71231	1720-0105	Orifice O-Ring (HM2 & HM4 models)	1
44	71232	3373-0020	Metering orifice (HM2 & HM4 models)	1

**REPAIR KITS FOR CENTRIFUGAL PUMP**

PART NO.	REPLACES	DESCRIPTION	
70641	3430-0332	Repair kit (Viton seal and O-Ring)	
70642	5168248	Repair kit (Buna-N seal and O-Ring)	
PART NO.	REPLACES	DESCRIPTION	
71182	2120-0009	Mechanical seal (viton) standard	1
71235	2120-0008	Mechanical seal (Buna-N) opt.	1
71236	1720-0083	O-Ring (Buna-N)	
77715	3430-0475	Silicon seal and O-Ring	

Contact your Westward Parts order desk for more information on selecting the correct centrifugal pump for current model tractors.

**Hypro Centrifugal Pumps**

**HYDRAULIC DRIVEN, STAINLESS STEEL**



These new Stainless Steel pumps from Hypro Corporation are just what you need for effectively handling caustic chemicals. The S-series pump is ideal for use with Roundup® or other acid applications, such as burndown and defoliation.

**Features:**

- Hydraulic motor drive (for open and closed center systems)
- Maximum flow: 82-190 gpm
- Maximum pressure: 130-180 psi (in closed center operation)
- Maximum fluid temperature: 140°F
- Port sizes:
  - 9303S 1.5" NPT inlet  
1.25" NPT outlet
  - 9306S 2" NPT inlet  
1.5" NPT outlet
- Housing: Stainless Steel
- Impeller:
  - 9303S series: poly
  - 9306S series: glass-filled nylon
- Motor: Internal gear gerotor
- Hydraulic ports: .5" NPT
- Motor capacities: 5-20 gpm
- Weight: 21 lbs/9.52 kg
- Centrifugal shaft seals: Viton/ceramic
- Hydraulic motor seal, double lip teflon

PART NO.	REPLACES	MAX. GPM	MAX. PSI	DESCRIPTION
70225	9303S-HM1C	114	130	10 gpm hydraulic motor/stainless steel pump for open/closed center systems 1 1/2" NPT inlet, 1 1/4" NPT outlet
70226	9303S-HM4C	115	93	7 gpm hydraulic motor/stainless steel pump for open/closed center systems 1 1/2" NPT inlet, 1 1/4" NPT outlet
70227	9306S-HM1C	210	115	10 gpm hydraulic motor/stainless steel pump for open/closed center systems 2" NPT inlet, 1 1/2" NPT outlet
70228	9306S-HM5C	210	95	15 gpm hydraulic motor/stainless steel pump for open/closed center systems 2" NPT inlet, 1 1/2" NPT outlet

**SERIES 9300 CAST IRON, HYDRAULIC DRIVEN PUMPS**

PART NO.	REPLACES	MAX. GPM	MAX. PSI	DESCRIPTION
70329	9305C-HM3C	190	180	20 gpm hydraulic motor/cast iron pump, large open center systems, ports (NPT): 2" inlet, 1 1/2" outlet
70330	9306C-HM1C	207	130	10 gpm hydraulic motor/cast iron pump, open/closed center systems, ports (NPT): 2" inlet, 1 1/2" outlet.
70331	9306C-HM3C	214	135	20 gpm hydraulic motor/cast iron pump, open/closed center systems, ports(NPT): 2" inlet, 1 1/2" outlet
70332	9306C-HM5C	212	150	15 gpm hydraulic motor/cast iron pump, large open center systems, ports (NPT): 2" inlet, 1 1/2" outlet
77715	3430-0475			Silicon Seal and O-Ring
77716	3430-0551			Silicon Seal for 9305C-HM3C only

**SERIES 9302 CAST IRON, HYDRAULIC DRIVEN PUMPS**

PART NO.	REPLACES	MAX. GPM	MAX. PSI	DESCRIPTION
70337	9302C-HM1C	72	140	11 gpm hydraulic motor/cast iron pump, open/closed center systems ports 1 1/4" inlet 1" outlet
70338	9302C-HM2C	65	90	4 gpm hydraulic motor/cast iron pump, open/closed center systems ports 1 1/4" inlet 1" outlet
70339	9302C-HM4C	72	110	6 gpm hydraulic motor/cast iron pump, open/closed center systems ports 1 1/4" Inlet 1" outlet

**Hypro Polypropylene Centrifugal Pumps**

**HYDRAULIC MOTOR DRIVEN**

PART NO.	MODEL NO.	MAX GPM	MAX PSI	SYSTEM	DESCRIPTION	HYD MOTOR PART NO.
70080	9303P-HM1C	90	100	Open/closed	The hydraulic motor features a fixed displacement internal gear design for smooth operation. A double lip teflon shaft seal provides excellent reliability even with high hydraulic oil back pressure. The hardest stainless steel motor/pump shaft is supported by two needle bearings and a ball bearing for dependable operation through years of use.	71439
70081	9303P-HM3C	93	100	Open		71443
70082	9303P-HM4C	86	100	Open/closed		71444

**Ports:** 1 1/2" NPT Inlet  
1 1/4" NPT Outlet

**Hydraulic Ports:** 1/2" NPT Inlet  
1/2" NPT Tank

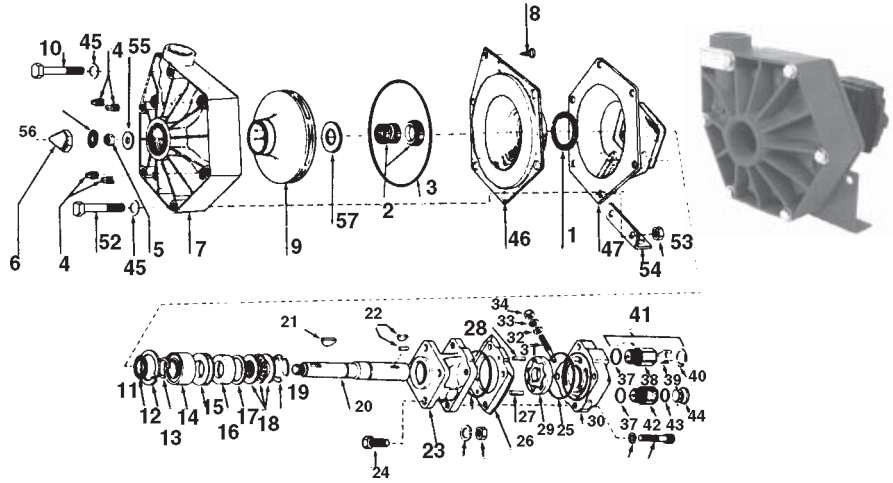
**REPAIR KIT**

PART NO.	REPLACES	DESCRIPTION
70727	3430-0445	Contains one of ref. 2, 3, 55, 56 and 57
77715	3430-0475	Silicon Seal & O-Ring

PART REF. NO.	QTY. REQ.	REPLACES	DESCRIPTION
1	71445	1 1410-0082	Spacer
2	71182	1 2120-0009	Mechanical seal
3	71446	1 1721-0083	O-ring
4	71447	4 2406-0020	Pipe plug
5	71448	1 2250-0051	Jam nut
6	71449	1 2250-0052	Impeller nut
7	71450	1 0700-9000P	Pump casing
8	71451	1 2210-0088	Screw
9	71181	1 0402-9100P	Impeller
10	71452	4 2210-0087	Hex head capscrew
11	71186	1 1410-0056	Slinger ring
12	71187	1 1820-0013	Retaining ring
13	71188	1 1810-0014	Snap ring
14	71023	1 2000-0010	Ball bearing
15	71190	1 1410-0073	Spacer
16	71191	1 2104-0005	Shaft seal
17	71192	1 1410-0074	Seal spacer
18	71193	1 2029-0014	Thrust bearing assembly: Includes (1) Thrust bearing (2) Thrust bearing races
19	71194	1 1810-0026	Snap ring
20	71453	1 0507-2500	Shaft HM4, 7 1/16" long
20	71454	1 0508-2500	Shaft HM3, 7 19/16" long
20	71455	1 0506-2500	Shaft HM1, 7 5/16" long
21	71198	1 1610-0012	Woodruff key
22	71199	1 1610-0032	Roll pin (HM4 Model)
22	71456	1 1610-0030	Woodruff key (HM3 Model)
22	71457	1 1610-0031	Roll pin (HM4 model)
23	71200	1 0151-2500A	Front motor body: Includes (1) Main brg.
25	71201	2 1720-0110	O-ring
26	71203	1 0700-2500A	Gerotor housing (HM1 Model) 1/2" wide
26	71204	1 0703/2500A	Gerotor housing (HM4 Model) 3/16" wide
26	71205	1 0702-2500A	Gerotor housing (HM3 Model) 1" wide
27	71206	1 1600-0045	Dowel pin (HM4 model)
27	71208	1 1600-0052	Dowel pin (HM3 model)

PART NO	DESCRIPTION
70639	Orbit motor repair kit

Parts kit No. 3430-0178 Contains: One each ball bearing (Ref. 14), motor shaft seal (Ref. 16), thread seal gasket (Ref. 32), and washer (Ref. 33), two each motor housing O-Rings (Ref. 25), and port adapter O-Rings (Ref. 37)



PART REF. NO.	QTY. REQ.	REPLACES	DESCRIPTION
27	71207	1 1600-0044	Dowel pin (HM1 model)
28	71209	1 1600-0042	Dowel pin (HM4 model)
28	71211	1 1600-0051	Dowel pin (HM3 model)
28	71210	1 1600-0037	Dowel pin (HM1 model)
29	71214	1 3900-0025	Gerotor (HM4 model)
29	71215	1 3900-0024	Gerotor (HM3 model)
29	71213	1 3900-0022	Gerotor (HM1 model)
30	71216	1 0251-2500A	Motor end plate: Incl. (1) main bearing
31	71217	1 3220-0029	Valve stem
32	71218	1 1700-0047	Gasket
33	71219	1 2270-0027	Washer
34	71220	1 2250-0038	Lock nut
35	71221	4 2270-0039	Washer
36	71222	4 2220-0045	Socket head capscrew (HM4 models)
36	71224	4 2220-0044	Socket head capscrew (HM3 models)
36	71223	4 2220-0021	Socket head capscrew (HM1 model)
37	71225	2 1720-0108	O-ring
38	71226	1 3320-0016	Check valve body
39	71227	1 3260-0039	Poppet

PART REF. NO.	QTY. REQ.	REPLACES	DESCRIPTION
40	71228	1 1820-0023	Retaining ring
41	71229	1 3320-0015	Tank check valve assy. Consists of: (1) O-Ring - ref. 37, (1) check valve Body - ref 38, (1) Poppet - ref 39, (1) Retaining ring - Ref 40
42	71230	1 3360-0021	Pressure port adapter
43	71231	1 1720-0105	Orifice O-Ring (HM4 models only)
44	71232	1 3373-0020	Metering orifice (HM4 models only)
45	71458	6 2270-0041	Washer
46	71459	1 0750-9300P	Cover
47	71460	1 0750-9006C	Intermediate flange
48	71461	4 2260-0002	Lockwasher
50	71462	4 2220-0058	Socket head capscrew
52	71463	2 2210-0016	Screw
53	71464	6 2250-0008	Hex nut
54	71465	1 1510-0063	Mounting foot
55	71466	1 2270-0057	Washer
56	71467	1 1700-0097	Gasket
57	71468	1 1700-0100	Rubber gasket

**Hypro Centrifugal Pump**

Two models with different capacities (130 gpm and 105 gpm), both models with the volume and pressure to handle many spraying applications and liquid transfers. Pumps offer great installation versatility. The pedestal mounting base can be used for direct drive or belt and pulley drive. The pump outlet can be rotated to four different positions.

**Ports:**

**Model 9202C:** Inlet 1 1/4" NPT, Outlet 1" NPT

**Model 9203C:** Inlet 1 1/2" NPT, Outlet 1 1/4" NPT



PART NO	REPLACES	DESCRIPTION
70066	9202C	Pump w/ 5/8" shaft
70067	9203C	Pump w/ 5/8" shaft
70083	9203C-R	Pump w/ 5/8" shaft clockwise rotation
70127	9204C	Pump w/ 5/8" shaft
70128	9205C	Pump w/ 7/8" shaft

**Model 9204C and 9205C:** Inlet 2" NPT, Outlet 1 1/2" NPT

**Shaft:** 5/8" solid stainless steel with 3/32" x 3/16" keyway

**Shaft Seal:** Stainless steel mechanical seal of ceramic and carbon faces with Viton sealing element. Buna-N seal is available.

**Outlet:** Can be changed to four different positions by removing the bolts and rotating the casing.

**Housing:** Pressure tested cast iron. Epoxy coated inside and out. Mounting flange is drilled to accept two 3/8" bolts.

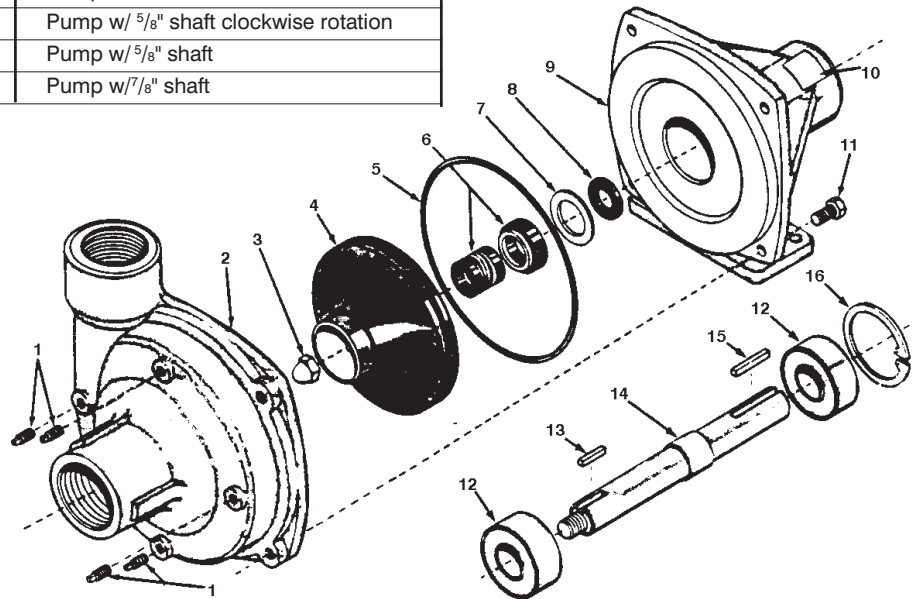
**Bearings:** Two heavy-duty, factory lubricated shaft ball bearings.

**Net Weight:** 15 1/2 pounds (7.03 kg).

**PSI:** 180

**Output to 130 gpm:** pressure to 180 psi

**Speed to 6000 rpm:** temperature to 140°F



**REPAIR PARTS**

REF. PART NO.	REPLACES	DESCRIPTION	QTY.
1	71233	2406-0009 Drain vent plug	4
2	71234	0150-9200C Pump casing (9202) (1 1/4" inlet, 1" outlet)	1
2	71178	0150-9000C Pump casing (9203) (1 1/2" inlet, 1 1/4" outlet)	1
2	71470	0152-9000C Pump casing (9203-R)	1
3	71179	2253-0002 Impeller nut	1
4	71380	0401-9100P Impeller (9202 & 9203)9262	1
4	71469	0403-9100P Impeller (9203-R)9263	1
5	71236	1720-0083 O-Ring (Buna-N)	1
6	71182	2120-0009 Mechanical seal (Viton) standard	1
6	71235	2120-0008 Mechanical seal (Buna-N) opt.	1
6	71482	2120-0032 Mechanical seal silicon	1
7	71237	1830-0040 Seal retainer	1
8	71186	1410-0056 Slinger ring	1
11	71184	2210-0020 Bolt	4
12	71023	2000-0004 Ball bearing	2
13	71240	1610-0015 Key	1
14	71241	0501-9200 Pump shaft	1
15	71242	1610-0004 Key	1
16	71187	1820-0013 Bearing retainer ring	1

**SERIES 9200 PEDESTAL MODELS WITH 12-VOLT CLUTCHES**

PART NO.	MODEL NO.	MAX GPM	MAX PSI	MAX RPM	DESCRIPTION
70230	9262C-C	88	124	5000	Pedestal mount, cast iron pump with 12 volt heavy duty clutch with 5" diameter A-section pulley, 1 1/4" NPT inlet, 1" NPT outlet, counterclockwise rotation*.
70229	9263C-C	140	124	5000	Pedestal mount, cast iron pump with 12 volt heavy duty clutch with 5" diameter A-section pulley, 1 1/2" NPT inlet, 1 1/4" NPT outlet, counterclockwise rotation*.
70340	9263C-CR	140	127	5000	Same as above but clockwise rotation

**REPAIR KITS**

PART NO.	REPLACES	DESCRIPTION	
70641	3430-0332	Repair kit (Viton seal and O-Ring)	
70642	5168248	Repair kit (Buna-N seal and O-Ring)	
77715	3430-0475	Silicone Carbide Kit	
PART NO.	REPLACES	DESCRIPTION	
71182	2120-0009	Mechanical seal (viton) standard	1
71235	2120-0008	Mechanical seal (Buna-N) opt.	1
71236	1720-0083	O-Ring (Buna-N)	1

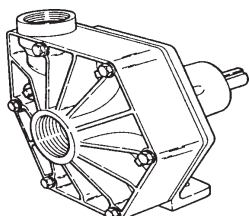
**Hypro Polypropylene Centrifugal Pedestal Pumps**

PART NO.	MODEL NO.	MAX GPM	MAX PSI	MAX RPM	DESCRIPTION
70084	9203P-S	92	75	4200	Pedestal mounted pump designed for direct drive with an electric motor or belt and pulley drive with an electric motor or gas engine, 7/8" solid keyed 316 stainless steel shaft.
70085	9500P-S	83	75	4200	Clockwise rotation pedestal mounted pump designed for direct drive with a gas engine or electric motor, 7/8" solid keyed 316 stainless steel shaft.

**PUMP REPAIR KITS**

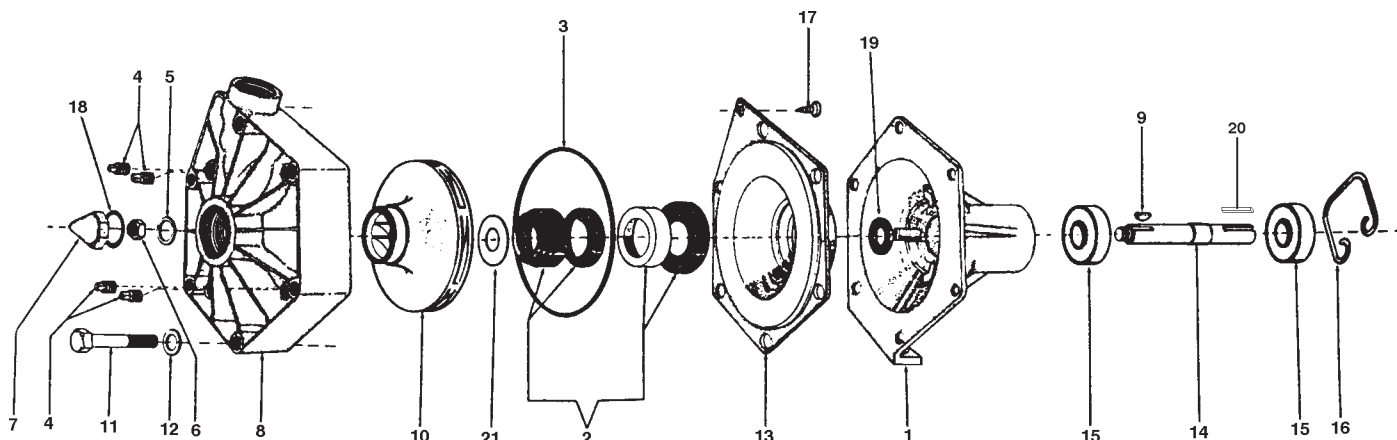
PART NO.	DESCRIPTION
70665	Seal, O-Ring repair kit No. 3430-0333 consists of (1) ref. 2 mechanical seal, (1) ref. 3 O-Ring and (1)ref. 18 gasket
70666	Seal, O-Ring repair kit No. 3430-0335 consists of (1) ref. 2 mechanical seal, (1) ref. 3 O-Ring and (1)ref. 5 washer

**Max. Flow Rate:** 92 gpm  
**Max. Pressure:** 80 psi  
**Max. Speed:** 4200 rpm  
**Ports:** 1 1/2" npt inlet  
 1 1/4" npt outlet



**SERIES 9200 PEDESTAL MODELS WITH 12-VOLT CLUTCHES**

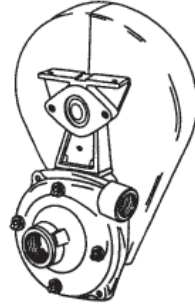
PART NO.	MODEL NO.	MAX GPM	MAX PSI	MAX RPM	DESCRIPTION
70335	9253P-C	92	80	4200	Pedestal mount, polypropylene pump with 12 volt heavy duty clutch with 5" diameter A-section pulley, 1 1/2" NPT inlet, 1 1/4" NPT outlet, counterclockwise rotation*.
70336	9553P-C	92	80	4200	Pedestal mount, polypropylene pump with 12 volt heavy duty clutch with 5" diameter A-section pulley, 1 1/2" NPT inlet, 1 1/4" NPT outlet, clockwise rotation*.



REF.	PART NO.	QTY.	REPLACES	DESCRIPTION
1	71471	1	0702-9200C	Flange
2	71472	1	2120-0011	Mechanical seal Buna
2	70656	1	2120-0010	Mechanical seal viton
3	71446	1	1721-0083	O-ring
4	71447	4	2406-0020	Plug
5	71466	1	2270-0057	Washer
6	71448	1	2250-0051	Jam nut
7	71449	1	2250-0052	Impeller nut
8	71450	1	0700-9000P	Pump casing 9203P-S, 992538-C
8	71473	1	0701-9500P	Pump casing 9500P-S 92538-C
9	71198	1	1610-0012	Woodruff key
10	71474	1	0403-9000P	Impeller (9203P-S)92538-C
10	71475	1	0402-9000P	Impeller 9500P-S, 9553P-C
11	71452	6	2210-0087	Screw

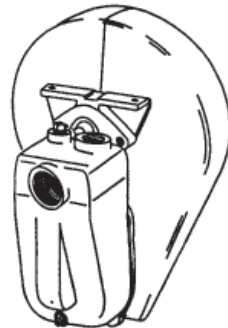
REF.	PART NO.	QTY.	REPLACES	DESCRIPTION
12	71458	6	2270-0041	Washer
13	71476	1	0750-9000P	Back cover 9203P-S, 9253P-C
13	71481	1	0700-9500P	Back cover 9500P-S 9553P-C
14	71477	1	0506-9200	Shaft
14	71478	1	0507-9200	Optional stainless steel shaft
15	71032	2	2008-0001	Bearing
16	71134	1	1820-0025	Retaining ring
17	71451	1	2210-0088	Screw
18	71467	1	1700-0097	Gasket
19	71479	1	1410-0083	Slinger ring
20	71242	1	1610-0004	Key
21	71480	1	1700-0101	Gasket

**Hypro Series 9400 Cast Iron and Poly Belt-Driven Models with 12-Groove Belt and Idler**



**SERIES 9402C & 9403C**

PART NO.	MODEL NO.	MAX GPM	MAX PSI	MAX RPM	SHAFT	PUMP HOUSING	NPT PORTS
70273	9402C-540	76	95	600	1 <sup>3</sup> / <sub>8</sub> " hollow, 6-spline	cast iron	1 <sup>1</sup> / <sub>4</sub> " inlet, 1" outlet
70274	9402C-540Q	76	95	600	1 <sup>3</sup> / <sub>8</sub> " 6-spline quick coupler	cast iron	1 <sup>1</sup> / <sub>4</sub> " inlet, 1" outlet
70277	9402C-540S	76	95	600	1" solid	cast iron	1 <sup>1</sup> / <sub>4</sub> " inlet, 1" outlet
70278	9402C-1000	76	95	1000	1 <sup>3</sup> / <sub>8</sub> " hollow, 21 spline	cast iron	1 <sup>1</sup> / <sub>4</sub> " inlet, 1" outlet
70279	9402C-1000L	76	95	1000	1 <sup>3</sup> / <sub>4</sub> " hollow, 20-spline	cast iron	1 <sup>1</sup> / <sub>4</sub> " inlet, 1" outlet
70318	9402C-1000S	76	95	1000	1" solid	cast iron	1 <sup>1</sup> / <sub>4</sub> " inlet, 1" outlet
70319	9403C-540	140	104	600	1 <sup>3</sup> / <sub>8</sub> " hollow, 6-spline	cast iron	1 <sup>1</sup> / <sub>2</sub> " inlet, 1 <sup>1</sup> / <sub>4</sub> " outlet
70320	9403C-540Q	140	104	600	1 <sup>3</sup> / <sub>8</sub> " 6-spline quick coupler	cast iron	1 <sup>1</sup> / <sub>2</sub> " inlet, 1 <sup>1</sup> / <sub>4</sub> " outlet
70321	9403C-540S	140	104	600	1" solid	cast iron	1 <sup>1</sup> / <sub>2</sub> " inlet, 1 <sup>1</sup> / <sub>4</sub> " outlet
70322	9403C-1000	140	104	1000	1 <sup>3</sup> / <sub>8</sub> " hollow, 21 spline	cast iron	1 <sup>1</sup> / <sub>2</sub> " inlet, 1 <sup>1</sup> / <sub>4</sub> " outlet



**Hypro Series 9400 Cast Iron Self-Priming, Belt-Driven Models with 12-Groove Belt and Idler Pulley**

**SERIES 9403C-SP**

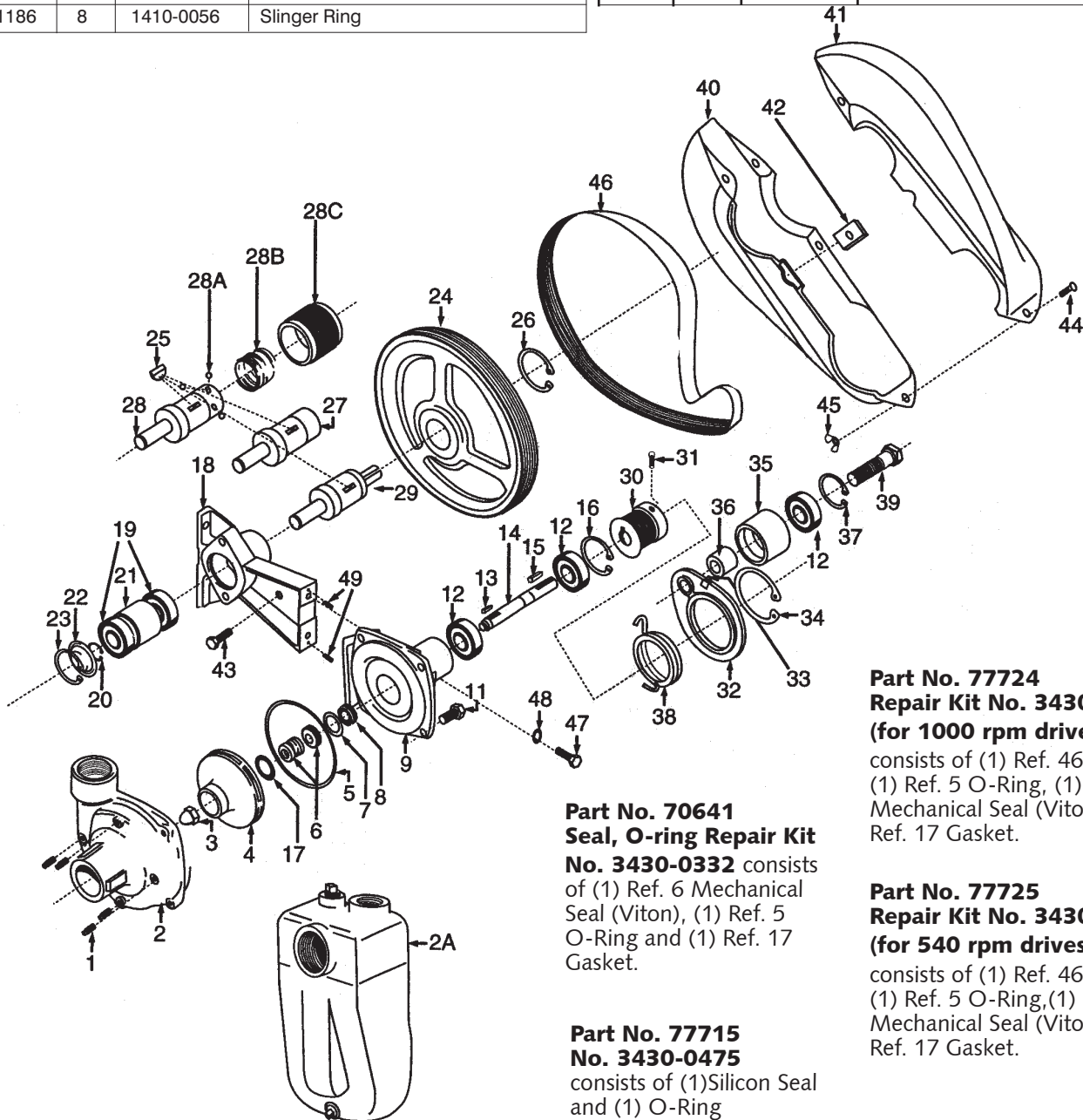
PART NO.	MODEL NO.	MAX GPM	MAX PSI	MAX RPM	SHAFT	PUMP HOUSING	NPT PORTS
70323	9403C-540-SP	120	99	600	1 <sup>3</sup> / <sub>8</sub> " hollow, 6-spline	cast iron	1 <sup>1</sup> / <sub>2</sub> " inlet, 1 <sup>1</sup> / <sub>4</sub> " outlet
70324	9403C-540Q-SP	120	99	600	1 <sup>3</sup> / <sub>8</sub> " 6 spline quick coupler	cast iron	1 <sup>1</sup> / <sub>2</sub> " inlet, 1 <sup>1</sup> / <sub>4</sub> " outlet
70325	9403C-540S-SP	120	99	600	1" solid	cast iron	1 <sup>1</sup> / <sub>2</sub> " inlet, 1 <sup>1</sup> / <sub>4</sub> " outlet
70326	9403C-1000-SP	120	99	1000	1 <sup>3</sup> / <sub>8</sub> " hollow, 21- spline	cast iron	1 <sup>1</sup> / <sub>2</sub> " inlet, 1 <sup>1</sup> / <sub>4</sub> " outlet
70327	9403C-1000L-SP	120	99	1000	1 <sup>3</sup> / <sub>4</sub> " hollow, 20-spline	cast iron	1 <sup>1</sup> / <sub>2</sub> " inlet, 1 <sup>1</sup> / <sub>4</sub> " outlet
70328	9403C-1000S-SP	120	99	1000	1" solid	cast iron	1 <sup>1</sup> / <sub>2</sub> " inlet, 1 <sup>1</sup> / <sub>4</sub> " outlet
70333	9403C-1000L	140	104	1000	1 <sup>3</sup> / <sub>4</sub> " hollow 20-spline	cast iron	1 <sup>1</sup> / <sub>2</sub> " inlet, 1 <sup>1</sup> / <sub>4</sub> " outlet
70334	9403C-1000S	140	104	1000	1" solid	cast iron	1 <sup>1</sup> / <sub>2</sub> " inlet, 1 <sup>1</sup> / <sub>4</sub> " outlet

**REPAIR PARTS LISTED ON NEXT PAGE**

**Series 9402C, 9403C and 9403C-SP**

PART NO.	REF.	REPLACES	DESCRIPTION
71176	1	2406-0007	Drain Plug
71178	2	0150-9000C	Pump Casing (Models 9403C)
71234	2	0150-9200C	Pump Casing (Models 9402C)
77718	2A	0150-9070C	Pump Casing (Model 9403C-SP)
71179	3	2253-0002	Impeller Nut
71380	4	0401-9100P	Impeller (Nylon) (Standard)
71181	4	0402-9100P	Impeller (Nylon)
71236	5	1720-0083	O-Ring
71182	6	2120-0009	Mechanical Seal (Standard Viton)
71235	6	2120-0008	Mechanical Seal (optional Buna-N)
71482	6	2120-0032	Mechanical Seal (opt. Silicon Carbide)
71237	7	1830-0040	Seal Retainer
71186	8	1410-0056	Slinger Ring

PART NO.	REF.	REPLACES	DESCRIPTION
71023	12	2000-0010	Ball Bearing 71023
71240	13	1610-0015	Key
71242	15	1610-0004	Key
71187	16	1820-0013	Bearing Retainer
71468	17	1700-0100	Gasket
77719	19	2001-0006	Driver Shaft Bearings
77720	20	1810-0012	Driver Shaft Bearing Retainer Ring
77721	21	1410-0094	Bearing Spacer
77722	22	2840-0053	End Cap
77723	23	1820-0032	Bearing Bore Retaining Ring
77724	46	3100-0006	Poly V-Belt (540 rpm)
77725	46	3100-0005	Poly V-Belt (1000 rpm)



**Part No. 77724  
Repair Kit No. 3430-0477  
(for 1000 rpm drives)**

consists of (1) Ref. 46 Poly V-Belt, (1) Ref. 5 O-Ring, (1) Ref. 6 Mechanical Seal (Viton), and (1) Ref. 17 Gasket.

**Part No. 77725  
Repair Kit No. 3430-0476  
(for 540 rpm drives)**

consists of (1) Ref. 46 Poly V-Belt, (1) Ref. 5 O-Ring, (1) Ref. 6 Mechanical Seal (Viton), and (1) Ref. 17 Gasket.

**Part No. 70641  
Seal, O-ring Repair Kit  
No. 3430-0332**

consists of (1) Ref. 6 Mechanical Seal (Viton), (1) Ref. 5 O-Ring and (1) Ref. 17 Gasket.

**Part No. 77715  
No. 3430-0475**

consists of (1) Silicon Seal and (1) O-Ring



**Delavan Turbine Pump**

**TURBO-90**

PART NO.	REPLACES	DESCRIPTION
70018	26556-4	Cast iron pump with lip seals and nylon impeller
70019	26556-11	Cast iron pump with face seals and nylon impeller

**PUMP SHAFT 15/16"**

**PUMP CAPACITIES AND INPUT POWER (BASED ON WATER)**

MODEL	SPEED (RPM)	0 PSI GPM	10 PSI GPM	20 PSI GPM	30 PSI GPM	40 PSI GPM	50 PSI GPM	60 PSI GPM
26556	600	45	25	8	-	-	-	-
26556	800	60	47	34	20	5	-	-
26556	1000	75	65	55	45	33	20	10
26556	1200	90	80	73	65	55	45	35

Note: All flows based on 38.1 mm (1 1/2") I.D. inlet and outlet hose.

MODEL	SPEED (RPM)	0 KPA L/MIN	100 KPA L/MIN	200 KPA L/MIN	300 KPA L/MIN	400 KPA L/MIN
26556	600	170	72	-	-	-
26556	800	227	159	81	-	-
26556	1000	284	231	174	112	38
26556	1200	340	297	252	202	148

Note: All flows based on 38.1 mm (1 1/2") I.D. inlet and outlet hose.

**REPLACEMENT PARTS FOR TURBINE PUMP**

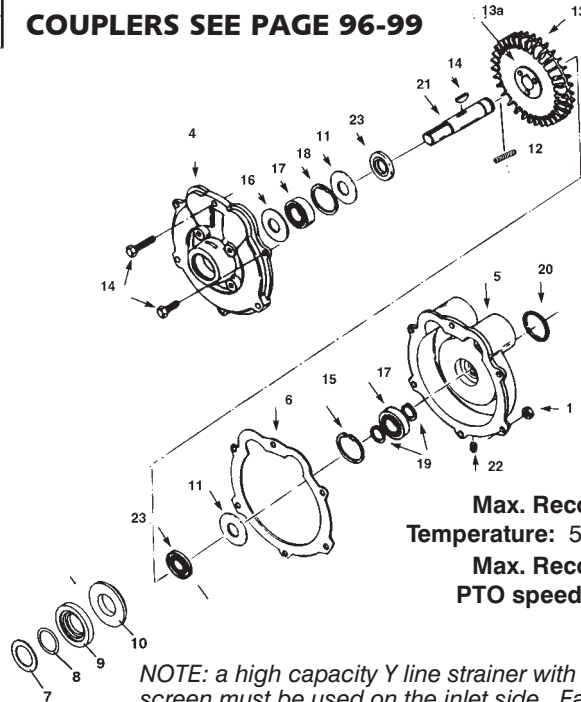
REF	PART NO.	REPLACES	DESCRIPTION	REQ
1	70839	17902	Hex nut (3/8" - 16 UNC)	6
4	70841	39923	End plate, cast iron	1
5	70842	39924	Body, cast iron	1
6	70843	26545	Gasket	1
7		26542	Seal ring (use seal kit)	-
8	70845	31352-022	O-ring (viton)	1
11	70848	39925	Seal support	-
13	70850	28709	Impeller, nylon	1
13a	70852	30512	Hub	1
14	70853	26544	Woodruff key	1
15	70854	26548	Snap ring, internal	2
16	70855	26665	Dust shield	1
17	71032	16228	Bearing, shielded	2
18	70856	39934	Cap screw, hex head (3/8" - 16 UNC x 1 1/2")	3
19	70857	26547	Snap ring, external	2
20	70858	39935	Name plate	1
21	70859	34793	Shaft	1
22	70860	25785	Pipe plug, square head	1
23	70861	47927	Lip seal	2
	70619	50914	Face seal assembly	
	70888	45005	Lip seal assembly	

The Turbo-90 is designed to operate from a 1000 rpm PTO shaft without attachments. Peak performance at slower rotation means longer life of the seals.

The Turbo-90 can pump suspended materials without accumulation unlike a conventional turbine pump. This is possible because of pressure relief passages from the seal cavities to the inlet port. The suspension circulates and, therefore, is cleared from the inner cavities. It can be used for large quantity liquid transfer – from trucks to tanks for instance. It is also perfect for high volume sprayer pumping applications.

Features: A nylon impeller made of DuPont Super Tough Nylon Resin reinforced with 14% glass filler has been designed to reduce corrosion, increase pump life and smooth operation because of less rotation weight. Seals available are either face seals or lip seals. Specify face seals for severe service. Face seals feature hard, wear-resistant phenolic rings pressing against ceramic seals. Bearings are isolated by drain cavities. Large 1 1/2" inlet and outlet ports permit unrestricted high volume flow. Because of the high capacity of the Turbo-90, sufficient by-pass flow is available to maintain maximum agitation. Shaft is made of stainless steel and has a 24 mm (15/16") dia. with 6.4 mm (1/4") keyway.

**COUPLERS SEE PAGE 96-99**



**Max. Recommended Temperature: 50°C (120°F)**  
**Max. Recommended PTO speed: 1251 rpm**

NOTE: a high capacity Y line strainer with a 20 mesh screen must be used on the inlet side. Failure to use a suction strainer, as specified, may void the product warranty.

NOTE: If 540 rpm PTO coupler is used, capacity of the Turbo-90 pump will be reduced.

**REPAIR KITS FOR TURBINE PUMP**

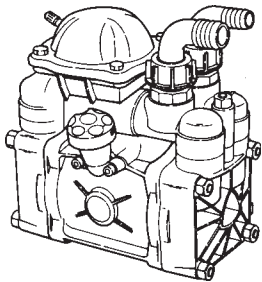
PART NO.	REPLACES	DESCRIPTION	QTY./KIT
70606	28455-2*	Pump repair kit with lip seals	
70607	28455-1	Pump repair kit with face seals	
PART NO.	REPLACES	DESCRIPTION	QTY./KIT
70843	26545*	Gasket	1
70861	47927*	Lip seal	2
70845	31352-022	O-Ring (viton)	2
70848	39925	Seal support	2

## Hypro Low Pressure Diaphragm Pumps

PART NO.	MODEL NUMBER	MAX. GPM	MAX. PSI	MAX RPM	DESCRIPTION	ESTIMATED WEIGHT EA
70069	9910-D70 (replaces D60)	19	290	550	2 - diaphragm pump - 1 1/4" HB inlet, 3/4" HB outlet. Select shaft kif for desired drive.	22 lbs.
70091	9910-D70GR	19	290	3600	9910-D70GR - with gear reduction for 5 hp gasoline engine	31 lbs.
70070	9910-D115 (replaces D100)	30.1	290	550	3 - diaphragm pump - 1 1/2" HB inlet, 1" HB outlet. Select shaft kit for desired drive.	35 lbs.
70086	9910-D135 (replaces D120)	34.8	290	550	3 - diaphragm pump - 1 1/2" HB inlet, 1" HB outlet. 1 3/8" - 6 splined male shaft.	38 lbs.
70092	9910-D160 (replaces D150)	42.5	290	550	4 - diaphragm pump - 2" HB inlet, 1 1/2" HB outlet. 1 3/8" - 6 splined male shaft.	66 lbs.
70093	9910-D250 (replaces D230)	66	290	550	6 - diaphragm pump - 2" HB inlet, 1 1/2" HB outlet. 1 3/8" - 6 splined male shaft	92 lbs.

Hypro low pressure diaphragm pumps are recommended for ground and low-level spraying of herbicides, pesticides, liquid fertilizers and many other hard-to-handle fluids. Low cost maintenance and almost wear-free operation make these pumps ideal for a wide variety of spraying jobs. Pressure and output are designed for

optimum performance of medium to large sized sprayers. Hypro low pressure diaphragm pumps can be adapted for splined shaft, female coupler shaft, and solid shaft drive options. Pumps include a pulsation dampener.



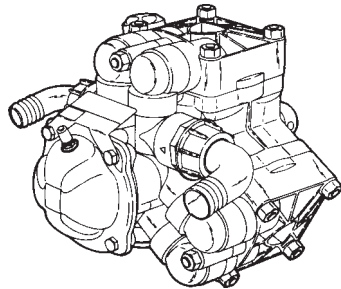
### Model 9910-D70

**Part No.:** 70069

**Max Flow:** 19 gpm

**Max Pressure:** 290 psi

**2 Diaphragms**



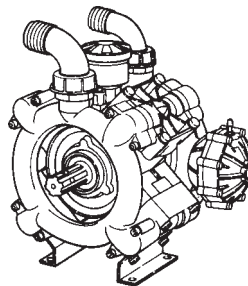
### Model 9910-D115

**Part No.:** 70070

**Max Flow:** 30.1 gpm

**Max Pressure:** 290 psi

**3 Diaphragms**



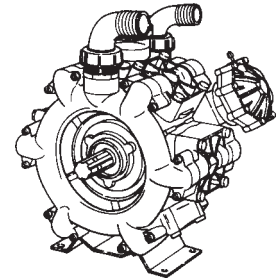
### Model 9910-D160

**Part No.:** 70092

**Max Flow:** 42.5 gpm

**Max Pressure:** 290 psi

**4 Diaphragms**



### Model 9910-D250

**Part No.:** 70093

**Max Flow:** 66 gpm

**Max Pressure:** 290 psi

**6 Diaphragms**

### Model 9910-D135

**Part No.:** 70086

**Max Flow:** 34.8 gpm

**Max Pressure:** 290 psi

**3 Diaphragms**

**Hypro Low Pressure Diaphragm Pump Performance**

**ENGLISH STANDARD**

SERIES D70	PSI	350 RPM		400 RPM		450 RPM		500 RPM		550 RPM	
		GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
	0	12.7	0.3	13.7	0.3	15.7	0.4	17.2	0.6	19.0	0.6
	145	10.7	1.2	11.0	1.4	13.5	1.6	14.9	1.8	16.0	1.9
	217	10.3	1.7	10.5	2.0	13.4	2.3	14.4	2.5	15.9	2.7
	290	10.0	2.2	10.0	2.5	13.0	2.8	14.1	3.1	15.8	3.4

**METRIC**

SERIES D70	BAR	350 RPM		400 RPM		450 RPM		500 RPM		550 RPM	
		L/M	HP	L/M	HP	L/M	HP	L/M	HP	L/M	HP
	0	47.9	0.3	51.9	0.3	59.6	0.4	65.0	0.6	71.8	0.6
	10	40.4	1.2	41.6	1.4	51.2	1.6	56.4	1.8	60.4	1.9
	15	39.0	1.7	39.7	2.0	50.6	2.3	54.4	2.5	60.1	2.7
	20	37.8	2.2	37.9	2.5	49.2	2.8	53.2	3.1	59.7	3.4

**ENGLISH STANDARD**

SERIES D115	PSI	350 RPM		400 RPM		450 RPM		500 RPM		550 RPM	
		GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
	0	19.3	0.3	22.1	0.3	24.8	0.4	27.1	0.7	30.1	0.8
	145	18.7	1.8	21.4	2.1	24.0	2.4	26.4	2.7	29.0	3.0
	217	18.6	2.7	21.2	3.1	23.9	3.5	26.2	3.9	28.8	4.3
	290	18.5	3.6	21.1	4.1	23.8	4.5	26.1	5.0	28.7	5.5

**METRIC**

SERIES D115	BAR	350 RPM		400 RPM		450 RPM		500 RPM		550 RPM	
		L/M	HP	L/M	HP	L/M	HP	L/M	HP	L/M	HP
	0	73.1	0.3	83.6	0.3	94.0	0.4	102.7	0.7	113.8	0.8
	10	70.8	1.8	80.9	2.1	91.0	2.4	99.8	2.7	109.8	3.0
	15	70.3	2.7	80.4	3.1	90.5	3.5	99.1	3.9	109.0	4.3
	20	70.0	3.6	80.0	4.1	90.0	4.5	98.6	5.0	108.8	5.5

**ENGLISH STANDARD**

SERIES D135	PSI	350 RPM		400 RPM		450 RPM		500 RPM		550 RPM	
		GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
	0	22.8	0.4	26.1	0.5	29.3	0.6	31.5	1.1	34.8	1.2
	145	22.1	2.3	25.3	2.6	28.4	2.9	30.5	3.4	33.6	3.8
	217	22.0	3.2	25.1	3.7	28.3	4.2	30.4	4.8	33.4	5.3
	290	21.7	4.3	24.8	4.9	27.9	5.5	30.3	6.1	33.3	6.7

**METRIC**

SERIES D135	BAR	350 RPM		400 RPM		450 RPM		500 RPM		550 RPM	
		L/M	HP	L/M	HP	L/M	HP	L/M	HP	L/M	HP
	0	86.4	0.4	98.7	0.5	111.0	0.6	119.4	1.1	131.7	1.2
	10	83.6	2.3	95.6	2.6	107.5	2.9	115.4	3.4	127.0	3.8
	15	83.2	3.2	95.1	3.7	107.0	4.2	115.0	4.8	126.5	5.3
	20	82.1	4.3	93.8	4.9	105.5	5.5	114.5	6.1	126.0	6.7

NOTE: "HP" is electrical horsepower. Consult your gas engine supplier for engine horsepower required.

**Hypro Low Pressure Diaphragm Pump Performance****ENGLISH STANDARD**

SERIES D160	PSI	350 RPM		400 RPM		450 RPM		500 RPM		550 RPM	
		GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
	0	27.7	0.7	31.7	0.8	35.7	0.9	38.4	1.3	42.5	1.4
	145	25.2	2.5	28.8	2.9	32.4	3.3	35.8	3.9	39.4	4.3
	217	24.7	3.7	28.2	4.2	31.7	4.7	35.2	5.3	38.7	5.8
	290	24.2	4.5	27.7	5.2	31.2	5.9	34.6	6.7	38.2	7.4

**METRIC**

SERIES D160	BAR	350 RPM		400 RPM		450 RPM		500 RPM		550 RPM	
		L/M	HP	L/M	HP	L/M	HP	L/M	HP	L/M	HP
	0	105.0	0.7	120.0	0.8	135.0	0.9	145.4	1.3	160.9	1.4
	10	95.4	2.5	109.0	2.9	122.6	3.3	135.5	3.9	149.0	4.3
	15	93.4	3.7	106.7	4.2	120.0	4.7	133.2	5.3	146.5	5.8
	20	91.7	4.5	104.8	5.2	118.0	5.9	130.9	6.7	144.6	7.4

**ENGLISH STANDARD**

SERIES D250	PSI	350 RPM		400 RPM		450 RPM		500 RPM		550 RPM	
		GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
	0	41.9	1.3	47.9	1.5	53.9	1.7	59.6	2.5	65.9	2.8
	145	39.7	3.8	45.3	4.4	51.0	4.9	56.7	5.6	62.4	6.2
	217	38.9	5.5	44.5	6.3	50.1	7.1	55.5	8.1	61.0	8.9
	290	38.4	7.2	43.9	8.3	49.4	9.3	55.0	10.4	60.7	11.5

**METRIC**

SERIES D250	BAR	350 RPM		400 RPM		450 RPM		500 RPM		550 RPM	
		L/M	HP	L/M	HP	L/M	HP	L/M	HP	L/M	HP
	0	158.6	1.3	181.3	1.5	204.0	1.7	225.4	2.5	249.6	2.8
	10	150.1	3.8	171.5	4.4	193.0	4.9	214.5	5.6	236.0	6.2
	15	147.3	5.5	168.4	6.3	189.5	7.1	210.0	8.1	231.0	8.9
	20	145.2	7.2	166.0	8.3	186.8	9.3	208.2	10.4	229.7	11.5

**Hypro Medium Pressure Diaphragm Pumps**

PART NO.	MODEL NUMBER	MAX. GPM	MAX. PSI	MAX. RPM	DESCRIPTION	ESTIMATED WEIGHT EA.
70094	9910-D12GRGI	3.5	290	3600	2 - diaphragm pump - 3/4" HB inlet, (2) 3/8" HB outlets. Gearbox input shaft is 5/8" I.D. to fit 2.5 hp gas engine.	9 lbs.
70095	9910-D19	6.0	290	650	2 - diaphragm pump - 3/4" HB inlet, 1/2" NPT outlet. D19 - 3/4" solid keyed shaft.	12 lbs.
70096	9910-D19GRGI3/4	-	-	3600	2 - diaphragm (semi-hydraulic) pump - 3/4" inlet; 5/8" NPT outlet. D19 - 3/4" hollow shaft, gear reduced for 2.5 hp gas engine.	14 lbs.
70097	9910-D19GRGI5/8	6.0	290	3600	2 - diaphragm (semi-hydraulic) pump - 3/4" inlet; 5/8" NPT outlet. D19 - 5/8" hollow shaft, gear reduced for 2.5 hp gas engine.	14 lbs.
70068 70098	9910-D30 9910-D30AP-A	9.5	580	550	2 - diaphragm pump - 1" HB inlet, 1/2" HB outlet. D30AP-A-3/4" solid extended shaft. Select shaft kit or gear reduction.	23 lbs. 24 lbs.
70099 70108	9910-D30GRGI 9910-D30-B-GRGI	9.5	580	3600	2 - diaphragm pump - with GS40GI control unit & gear reduction - fits 5 hp gas engine. -B version with Buna-N diaphragms.	32 lbs. 32 lbs.
70109 70111	9910-D303 9910-D303GRGI	7.9	580	550 3600	3 - diaphragm pump - 1" HB inlet, 1/2" HB outlet. 3 - diaphragm pump - with GR40 control unit & gear reduction that fits 5-6 hp gas engines.	23 lbs. 23 lbs.
70112 70113	9910-D403 9910-D403GRGI	10.6	580	550 3600	3 - diaphragm pump - 1" HB inlet, 1/2" HB outlet. 3 - diaphragm pump - with GR40 control unit & gear reduction that fits 5-6 hp gas engines.	23 lbs. 23 lbs.
70114 70115	9910-D50 9910-D50AP-A	14.0	580	550	2 - diaphragm pump - 1 1/4" HB inlet, 1/2" HB outlet. D50AP-A-1" solid extended shaft. Select shaft kit or gear reduction.	35 lbs. 37 lbs.
70116	9910-D503	15.0	580	550	3 - diaphragm pump - 1 1/4" HB inlet, 3/4" NPT outlet. Select shaft kit or gearbox	28 lbs.
70117	9910-D503GRGI	15.0	580	3600	3 - diaphragm pump - assembled with gearbox 9910-KIT1642 and control 9910-RM40 for mounting on 8 hp gas engines.	41 lbs.

**HYPRO MEDIUM PRESSURE DIAPHRAGM PUMP GAS ENGINE UNITS**

PART NO.	MODEL NUMBER	MAX. GPM	MAX. PSI	MAX. RPM	DESCRIPTION	ESTIMATED WEIGHT EA.
70124	1534	6	290	650	Model D19 diaphragm pump with 9910-KIT1990 control unit and gearbox, 3 hp Briggs & Stratton gas engine with base.	50 lbs.
70125	1535	9.5	580	600	Model D30 diaphragm pump with GS40GI control unit and KIT1640 gearbox, 5 hp Industrial Plus Briggs & Stratton gas engine with base.	82 lbs.

## Hypro Medium Pressure Diaphragm Pump

## PART NO.

70094

**MODEL 9910-D12GRGI**

- Max. flow: 3.5 gpm
- Max. pressure: 290 psi
- Max. rated speed: 3600 rpm
- Max. fluid temperature: 140°F
- Port sizes: 3/4" inlet, 3/8" outlet, hose barb
- Shaft: 5/8" hollow, gear reduced for 3 hp gas engine
- Diaphragms: 2, semi-hydraulic
- Housing: anodized aluminum
- Weight: 9 lbs.
- Pump shaft rotation: CW and CCW

Complete with control unit.

**MODEL 9910-D252, D9910-D252GRGI, 9910-D252GRG158, AND 9910-D252GRGIAP**

- Max. flow: 6 gpm
- Max. pressure: 290 psi
- Max. rated speed: 650 rpm (D252)  
3600 rpm (70096,97,129)
- Max. fluid temperature: 140°F
- Port sizes: 3/4" inlet, 1/2" outlet D252
- Port sizes: 3/4" inlet, 5/8" outlet 70096,97,129
- Shaft: D252 is 3/4" solid; 70096,97,129 is 3/4" or 5/8" hollow, gear reduced for 2 - 3 1/2 hp gas engine
- Diaphragms: 2, semi-hydraulic
- Housing: anodized aluminum
- Mounting base: included
- Weight: 14 lbs

Recommended control unit: 9910-KIT1990 (SPP 70703)

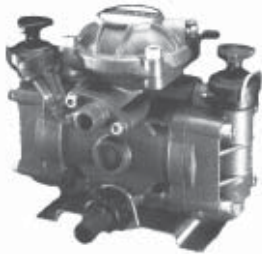
## PART NO.

70095

70096

70097

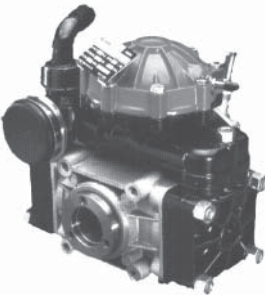
70129



## PART NO.

70068

70098


**MODEL 9910-D252, D9910-D252GRGI**

- Max. flow: 9.5 gpm
- Max. pressure: 580 psi
- Max. rated speed: 550 rpm
- Max. fluid temperature 140°F
- Pump shaft rotation: CW and CCW
- Shaft: D30 flanged for shaft kit; D30AP-A flanged w/3/4" shaft ext.
- Port sizes: 1" inlet, 1/2" outlet, hose barb
- Diaphragms: 2, semi-hydraulic
- Housing components for liquid handling: epoxy-coated
- Weight: 23 lbs.

Recommended control unit: 9910-GS40GI (SPP 70071)

## PART NO.

70114

70115


**MODEL 9910-D50 AND - D50AP-A**

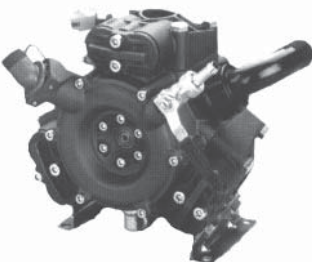
- Max. flow: 14 gpm
- Max. pressure: 580 psi
- Max. rated speed: 550 rpm
- Max. fluid temperature: 140°F
- Shaft: D50 flanged for shaft kit; D50AP-A flanged w/1" shaft ext.
- Port sizes: 1 1/4" inlet, 1/2" outlet, hose barb
- Diaphragms: 2, full-hydraulic
- Housing components for liquid handling: epoxy-coated
- Weight: 35 lbs.
- Pump shaft rotation: CW and CCW

Recommended control unit: 9910-GS40GI (SPP 70071)

## PART NO.

70116

70117


**MODEL 9910-D503 (MODEL - D503GRGI IS NOT SHOWN.)**

- Max. flow: 15 gpm
- Max. pressure: 580 psi
- Max. rated speed: 550 rpm
- Max. fluid temperature: 140°F
- Shaft: flanged adapter
- Port sizes: 1 1/4" (M) hose barb inlet, 3/4" NPT outlet
- Diaphragms: 3, semi-hydraulic
- Housing: anodized aluminum
- Mounting base: included
- Weight: 28 lbs.
- Pump shaft rotation: CW and CCW

Recommended control unit: 9910-RM40 (SPP 70706)

**Hypro Medium Pressure Diaphragm Pump Performance**

**ENGLISH STANDARD**

MODEL 9910-D12GRGI	PSI	1000 RPM		1100 RPM		1200 RPM		1300 RPM		1400 RPM	
		GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
0		2.4	.02	2.6	.02	3.0	.03	3.2	.04	3.5	.04
140		2.3	.3	2.5	.3	2.9	.4	3.0	.5	3.2	.5
210		2.2	.4	2.4	.4	2.8	.5	2.9	.6	3.1	.6
290		2.1	.5	2.3	.5	2.5	.6	2.8	.7	3.0	.8

**METRIC STANDARD**

MODEL 9910-D12GRGI	BAR	1000 RPM		1100 RPM		1200 RPM		1300 RPM		1400 RPM	
		L/M	W	L/M	W	L/M	W	L/M	W	L/M	W
0		9.4	134	10.3	156	11.3	224	12.2	291	13.2	306
9.8		9.0	216	9.8	231	10.7	298	11.5	365	12.5	380
14.7		8.6	291	9.4	306	10.2	372	11.0	440	12.0	455
20.3		8.2	365	9.0	380	9.8	447	10.6	522	11.8	596

**ENGLISH STANDARD**

MODEL 9910-D252GR	PSI	450 RPM		550 RPM		650 RPM	
		GPM	HP	GPM	HP	GPM	HP
50		4.2	.33	5.1	.43	6	.53
100		4.1	.37	5	.47	5.9	.57
150		4	.4	4.9	.5	5.8	.6
200		3.8	.5	4.7	.6	5.5	.8
290		3.6	.6	4.5	.8	5.3	1

**METRIC STANDARD**

MODEL 9910-D252GR	BAR	450 RPM		550 RPM		650 RPM	
		L/MIN	W	L/MIN	W	L/MIN	W
3.5		15.8	245	19.2	320	22.7	395
7		15.4	275	18.8	350	22.3	425
10.5		15.2	300	18.6	375	22	445
14		14.5	375	17.8	445	21	595
20.3		13.8	445	17	595	20	745

MODEL 9910-D30	PSI	350 RPM		450 RPM		550 RPM	
		GPM	HP	GPM	HP	GPM	HP
50		6	.4	7.9	.8	9.5	1.6
100		5.9	.9	7.8	1.3	9.3	2
200		5.7	1.3	7.5	1.8	9.1	2.5
300		5.5	1.6	7.4	2.2	9	2.8
400		5.3	2.2	7.1	2.8	8.7	3.6
580		5	2.7	6.9	3.4	8.45	4.2

MODEL 9910-D30AP-A	BAR	350 RPM		450 RPM		550 RPM	
		L/MIN	W	L/MIN	W	L/MIN	W
3.5		23	300	30	600	36	1190
7		22.5	670	29.5	970	35.2	1490
14		21.5	970	28.5	1340	34.5	1860
21		21	1190	28	1640	34	2090
28		20	1640	27	2085	33	2680
40.6		19	2012	26	2535	32	3130

MODEL 9910-D50	PSI	350 RPM		450 RPM		550 RPM	
		GPM	HP	GPM	HP	GPM	HP
50		9.5	.6	11.9	1	14	1.5
100		9.3	1	11.7	1.6	13.8	2
200		9.1	1.6	11.5	2.3	13.6	3
300		9	2	11.4	2.8	13.5	3.5
400		8.7	2.7	11	3.5	13.2	4.5
580		8.45	3.5	10.8	4.5	12.7	6.5

MODEL 9910-D50AP-A	BAR	350 RPM		450 RPM		550 RPM	
		L/MIN	W	L/MIN	W	L/MIN	W
3.5		36	450	45	745	53	1120
7		35.2	745	44.2	1190	52.3	1490
14		34.5	1190	43.5	1715	51.5	2235
21		34	1490	43	2090	51	2610
28		33	2010	42	2610	50	3350
40.6		32	2610	41	3350	48	4840

**ENGLISH STANDARD**

MODEL 9910-D503	PSI	350 RPM		400 RPM		450 RPM		500 RPM		550 RPM	
		GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
145		9.2	1.2	10.6	1.5	11.6	1.8	12.7	2.2	13.7	2.5
285		9.0	2.0	10.3	2.3	11.4	2.8	12.4	3.1	13.5	3.5
430		8.7	2.7	10.0	3.0	11.1	3.5	12.1	4.0	13.2	4.5
580		8.4	3.4	9.8	3.8	10.8	4.4	11.9	4.9	12.9	5.4

**METRIC STANDARD**

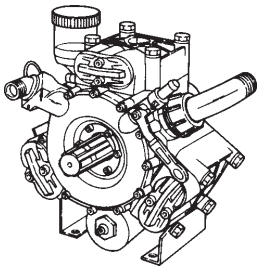
MODEL 9910-D503	BAR	350 RPM		400 RPM		450 RPM		500 RPM		550 RPM	
		L/M	W	L/M	W	L/M	W	L/M	W	L/M	W
10		35	895	40	1119	44	1342	48	1641	52	1865
19.7		34	1492	39	1715	43	2088	47	2312	51	2611
29.7		33	2014	38	2238	42	2611	46	2984	50	3357
40.6		32	2536	37	2834	41	3282	45	3655	49	4028

## Hypro High Pressure Diaphragm Pumps

PART NO.	MODEL NUMBER	MAX. GPM	MAX. PSI	MAX RPM	DESCRIPTION	ESTIMATED WEIGHT EA.
70118	9910-D813	21.4	725	550	3 - diaphragm pump - 1 1/4" HB inlet, 3/4" NPT outlet. Select shaft kit or gearbox. 1 3/8" -6 splined male shaft extension.	48 lbs.
70119	9910-D813GRGI	21.4	725	3600	3 - diaphragm pump assembled with gearbox 9910-KIT 1642 and control 9910-VDR50 for mounting on 11 hp gas engines.	60 lbs.
70090	9910-D1064	28	725	550	4 - diaphragm pump - 1 1/2" HB inlet, 3/4" NPT outlet. Select shaft kit or gearbox. 1 3/8" -6 splined male shaft extension.	54 lbs.
70120	9910-D1064GRGI	28	725	3600	4 - diaphragm pump assembled with gearbox 9910-KIT 1642 and control 9910-VDR50 for mounting on 18 HP gas engines.	65 lbs.
70121	9910-D1265	33.2	725	550	5 - diaphragm pump - 1 1/2" HB inlet, 3/4" NPT outlet. 1 3/8" -6 splined male shaft extension	66 lbs.
70122	9910-D1516	40	725	550	6 - diaphragm pump - 1 1/2" HB inlet, 3/4" NPT outlet. 1 3/8" -6 splined male shaft extension.	78 lbs.
70123	9910-D1554	41	725	550	4 - diaphragm pump - 1 1/2" HB inlet, 3/4" HB outlet, 1 3/8" - 6 splined male shaft extension. Complete with pulsation dampener.	120 lbs.

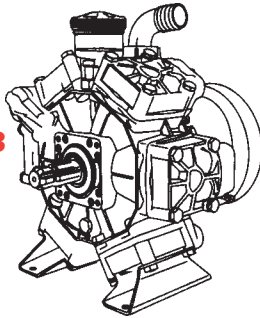
Hypro high pressure diaphragm pumps are recommended for spraying of herbicides, pesticides, liquid fertilizers and many other hard to handle fluids. Low cost maintenance and almost wear-free operation make these pumps ideal for a wide variety of spraying jobs. Pressure and output are designed for optimum performance of medium to large sized sprayers.

Hypro high pressure diaphragm pumps are supplied with single or double splined thru-shafts. Pumps include pulsation dampeners.



### MODEL 9910-D813

**Part No.:** SPP 70118  
**Max. flow:** 21.4 gpm  
**Max. pressure:** 725 psi  
**Max. speed:** 550 rpm  
**3 Diaphragms**

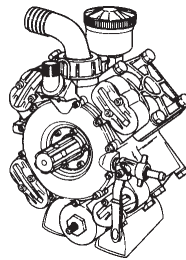


### MODEL 9910-D1516

**Part No.:** SPP 70122  
**Max. flow:** 40 gpm  
**Max pressure:** 725 psi  
**Max speed:** 550 rpm  
**6 Diaphragms**

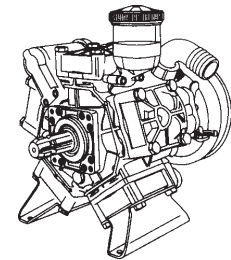
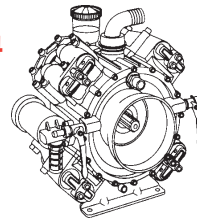
### CONTROL UNITS 9910-GS50GI & 9910-VDR50

Control units are available for easy flow and pressure control of your sprayer system. These units include a pressure relief valve to control pressure, an oil-filled pressure gauge to monitor pressure, and outlet ball valves to control flow. Control Unit 9910-GS50GI can be remote mounted with Kit No. 9910-KIT1742 (70709). No additional kit is required for remote mounting Control Unit 9910-VDR50.



### MODEL 9910-D1064

**Part No.:** SPP 70090  
**Max. flow:** 28 gpm  
**Max. pressure:** 725 psi  
**Max. speed:** 550 rpm  
**4 Diaphragms**



### MODEL 9910-D1265

**Part No.:** SPP 70121  
**Max. flow:** 33.2 gpm  
**Max. pressure:** 725 psi  
**Max. speed:** 550 rpm  
**5 Diaphragms**

### MODEL 9910-D1554

**Part No.:** SPP 70123  
**Max. flow:** 41 gpm  
**Max. pressure:** 725 psi  
**Max. speed:** 550 rpm  
**4 Diaphragms**

PART NO.	CONTROL UNIT MODEL	MAX GPM	MAX PSI	PUMP MODEL
70708	9910-GS50GI	48	725	All models
70710	9910-VDR50	35	725	-D813, -D1064, and -D1265



**Hypro High Pressure Diaphragm Pump Performance**

**ENGLISH STANDARD**

MODEL 9910-D813	PSI	350 RPM		400 RPM		450 RPM		500 RPM		550 RPM	
		GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
0		14.7	2.2	17.0	2.5	18.2	2.9	19.7	3.5	20.8	3.6
435		13.5	4.1	15.5	4.6	17.3	5.3	19.0	5.9	19.6	6.3
580		13.4	5.3	15.2	6.0	17.1	6.8	18.3	7.6	19.2	8.1
725		13.3	6.4	14.9	7.4	16.9	8.4	17.8	9.3	18.7	9.9

**METRIC STANDARD**

MODEL 9910-D813	BAR	350 RPM		400 RPM		450 RPM		500 RPM		550 RPM	
		L/MIN	HP	L/MIN	HP	L/MIN	HP	L/MIN	HP	L/MIN	HP
0		55.6	2.2	64.3	2.5	68.7	2.9	74.6	3.5	78.6	3.5
30		51.1	4.1	58.7	4.6	65.5	5.3	71.9	5.9	74.2	6.3
40		50.8	5.3	57.7	6.0	64.8	6.8	69.3	7.6	72.6	8.1
50		50.4	6.4	56.5	7.4	63.9	8.4	67.5	9.3	70.8	9.9

**ENGLISH STANDARD**

MODEL 9910-D1064	PSI	350 RPM		400 RPM		450 RPM		500 RPM		550 RPM	
		GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
0		18.9	2.8	21.5	3.1	24.2	3.9	25.4	4.4	27.9	5.0
435		18.6	4.4	20.7	5.4	23.5	6.7	25.2	7.1	27.6	7.5
580		18.1	5.5	18.7	6.2	21.0	7.8	24.8	8.3	27.2	9.1
725		17.5	8.5	16.3	9.9	18.3	11.1	24.3	12.2	26.7	13.1

**METRIC STANDARD**

MODEL 9910-D1064	BAR	350 RPM		400 RPM		450 RPM		500 RPM		550 RPM	
		L/MIN	HP	L/MIN	HP	L/MIN	HP	L/MIN	HP	L/MIN	HP
0		71.6	2.8	81.5	3.1	91.6	3.9	96.1	4.4	105.6	5.0
30		70.3	4.4	78.4	5.4	89.0	6.7	95.2	7.1	104.3	7.5
40		68.4	5.5	70.9	6.2	79.6	7.8	93.7	8.3	103.0	9.1
50		66.2	8.5	61.6	9.9	69.2	11.1	91.9	12.2	101.0	13.1

**ENGLISH STANDARD**

MODEL 9910-D1265	PSI	350 RPM		400 RPM		450 RPM		500 RPM		550 RPM	
		GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
0		23.8	3.8	26.8	4.5	29.7	5.1	31.9	5.5	33.3	5.8
435		22.4	7.0	25.5	8.0	28.7	9.1	31.4	9.7	32.7	10.2
580		22.2	9.1	25.3	10.4	28.4	11.8	31.1	12.5	32.6	12.8
725		22.1	11.2	25.0	12.3	28.2	14.6	30.8	15.5	31.4	15.6

**METRIC STANDARD**

MODEL 9910-D1265	BAR	350 RPM		400 RPM		450 RPM		500 RPM		550 RPM	
		L/MIN	HP	L/MIN	HP	L/MIN	HP	L/MIN	HP	L/MIN	HP
0		90.0	3.8	101.5	4.5	112.6	5.1	120.7	5.5	126.1	5.8
30		84.8	7.0	96.7	8.0	108.5	9.1	118.9	9.7	123.9	10.2
40		84.2	9.1	95.7	10.4	107.5	11.8	117.7	12.5	123.4	12.8
50		83.7	11.2	94.8	12.3	106.8	14.6	116.4	15.5	118.7	15.6

## Hypro High Pressure Diaphragm Pump Performance

### ENGLISH STANDARD

MODEL 9910-D1516	PSI	350 RPM		400 RPM		450 RPM		500 RPM		550 RPM	
		GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
	0	27.7	4.5	31.6	5.4	34.9	6.1	36.3	6.7	39.8	7.1
	435	26.4	8.2	30.4	9.6	33.9	10.8	35.9	11.5	39.5	12.0
	580	26.2	10.5	30.2	12.3	33.7	13.9	35.8	14.7	39.3	15.3
	725	26.0	12.9	29.9	15.1	33.5	16.9	35.7	17.9	38.4	18.6

### METRIC STANDARD

MODEL 9910-D1516	BAR	350 RPM		400 RPM		450 RPM		500 RPM		550 RPM	
		L/MIN	HP	L/MIN	HP	L/MIN	HP	L/MIN	HP	L/MIN	HP
	0	104.7	4.5	119.7	5.4	132.0	6.1	137.5	6.7	150.6	7.1
	30	100.0	8.2	115.2	9.6	128.3	10.8	135.8	11.5	149.4	12.0
	40	99.1	10.5	114.2	12.3	127.7	13.9	135.6	14.7	148.6	15.3
	50	98.3	12.9	113.2	15.1	126.7	16.9	135.3	17.9	145.3	18.6

### ENGLISH STANDARD

MODEL 9910-D1554	PSI	450 RPM		550 RPM	
		GPM	HP	GPM	HP
	100	40.7	4.5	42.3	5.2
	300	40	8.1	41.7	8.5
	500	39	15.7	40.6	16.1
	725	38.5	19.4	40.1	20.2

### METRIC STANDARD

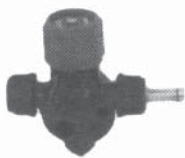
MODEL 9910-D1554	BAR	450 RPM		550 RPM	
		L/MIN	HP	L/MIN	HP
	7	154	4.5	160	5.2
	21	151.4	8.1	157.8	8.5
	35	147.6	15.7	153.7	16.1
	50	145.7	19.4	151.8	20.2

Note: The "HP" shown is electrical horsepower. Consult your gas engine supplier for the engine horsepower required.

**H y p r o D i a p h r a g m P u m p s**

**CONTROL UNITS FOR PRESSURE AND OUTPUT CONTROL OF SPRAYERS**

PART NO.	MODEL NUMBER	MAX. GPM	MAX. PSI	DESCRIPTION	ESTIMATED WEIGHT EA.
70702	9910-KIT1994	3.5	290	Control unit for Model 9910-D12GRGI. Includes relief valve and two 3/8" hose barb outlets.	1 lbs.
70703	9910-KIT1990	6.0	290	Control unit for mounting on 9910-D19 model pump. Includes relief valve and pressure/bypass selector. 5/8" HB bypass port and 3/8" HB outlet.	1 lbs.
70071	9910-GS40GI Repair Kit 70668	21	580	Control unit for mounting on 9910-D30 and D50 model pumps. Includes high pressure relief valve and 3 1/2" HB outlets with individual shut-offs.	3.5 lbs.
70704	9910-KIT1741	-	-	Remote mounting kit for 9910-GS40GI control unit. Includes mounting bracket, bolts, and hose barb.	1 lbs.
70705	9910-GR40	11	580	Control unit for 9910-D303 and D403 model pumps include adjustable high pressure relief valves, complete bypass lever, 2 1/2" gauge, outlet barbs and 5/8" bypass barb.	2 lbs.
70706	9910-RM40	24	580	Control unit for 9910-D503 model pump. Includes high pressure relief valve and two 1/2" HB outlet with individual shut-offs. Unit can be either direct or remote mounted.	3.5 lbs.
70707	9910-KIT1897	-	-	Remote mounting kit for 9910-RM40.	2 lbs.
70708	9910-GS50GI	48	725	Remote control unit for Models 9910-D813, -D1064, -D1265, -D1516, and D1554 pumps, Includes relief valve and three 1/2" HB outlets with individual shut-offs.	8.5 lbs
70709	9910-KIT1742	-	-	Remote mounting kit for 9910-GS50GI control unit. Includes mounting bracket, bolts and hose barb.	1.25 lbs
70710	9910-VDR50	35	725	Control unit for mounting on Models 9910-D503, -D813, -D1064, and -D1265 pumps. Includes high pressure relief valve and two 1/2" HB outlets with individual shut-offs. For additional hose barbs, order 9910-130491 (71754).	3.5 lbs.
70087 70712	3300-0087 3300-0088	42.5	290	Remote control units for 9910-D70, -D115, -D135, and -D160 pumps. Includes built-in relief valve, 1" HB inlet, and each unit is supplied with the following hose barb outlets that can be interchanged onto the individual shut-off valves: (3) 3/8" HB outlets (3) 1/2" HB outlets (3) 3/4" HB outlets model 3300-0088 includes a manual by-pass lever.	7.75 lbs
70713	3300-0082	66	290	Remote control unit for models 9910-D250 pumps. Unit maintains constant pressure of the system when a boom section is shut off. Includes main shut-off valve, single 1 1/2" HB return for all four 3/4" HB outlets, and 1 1/2" HB inlet.	18 lbs.



**70702**



**70703**



**70071**



**70710**



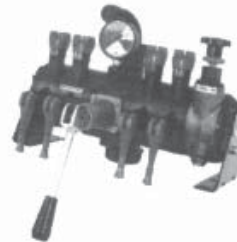
**70706**



**70708**

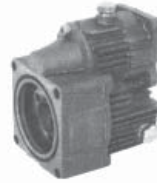


**70087**



**70713**

## Hypro Diaphragm Pumps

**70698****70714**

### GEAR REDUCTION KITS

PART NO.	MODEL NUMBER	DESCRIPTION	ESTIMATED WEIGHT EA.
70698	9910-KIT1640	For Model 9910-D30, D303 and D403 pumps 6:1 gear box for standard 5 hp gas engines with 3/4" shaft.	6.5 lbs.
70714	9910-KIT1642	For Model 9910-D50, D503, D813, D1064 and D1265 pumps 6:1 gear box for standard 8-18 hp gas engine with 1" shaft.	8.5 lbs.

### 1-3/8-6B FEMALE PTO SHAFT KITS

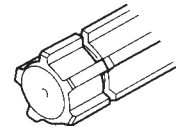
PART NO.	MODEL NUMBER	DESCRIPTION	ESTIMATED WEIGHT EA.
70697	9910-KIT1704	For Model 9910-D50, D30	7 lbs.
70667	9910-KIT1708	For Model 9910-D70 and Model 9910-D115 pumps	5.25 lbs.
70715	9910-KIT2204	For Model 9910-D503	7 lbs.



Kits include female PTO coupler and retaining clamp, torque arm and mounting bracket, chains, and necessary hardware.

### 1-3/8-6B MALE PTO SHAFT KITS

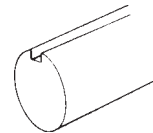
PART NO.	MODEL NUMBER	DESCRIPTION	ESTIMATED WEIGHT EA.
70699	9910-KIT1702	For Model 9910-D30 pumps	3 lbs.
70716	9910-KIT1706	For Model 9910-D50	4.25 lbs.
70717	9910-KIT1710	For Model 9910-D70 and Model 9910-D115 pumps	5.5 lbs.
70718	9910-KIT2200	For Model 9910-D503	4.25 lbs.
70719	9910-KIT2201	For Models 9910-D813, D1064, D1265 pumps	4.25 lbs.



Kits include male PTO shaft adapter, mounting bracket and necessary hardware.

### 1" SOLID SHAFT KITS

PART NO.	MODEL NUMBER	DESCRIPTION	ESTIMATED WEIGHT EA.
70701	9910-KIT1703	For Model 9910-D30 pumps	2.5 lbs.
70720	9910-KIT1707	For Model 9910-D50	3.75 lbs.
70669	9910-KIT1711	For Model 9910-D70 and Model 9910-D115 pumps	5 lbs.
70722	9910-KIT2202	For Model 9910-D503	3.75 lbs.
70723	9910-KIT2203	For Model 9910-D813, D1064, D1265 pumps	3.75 lbs.



Kits include solid shaft adapter, mounting bracket and necessary hardware.

**70726****70725****70724**

### HYDRAULIC MOTOR MOUNTING FLANGE KIT

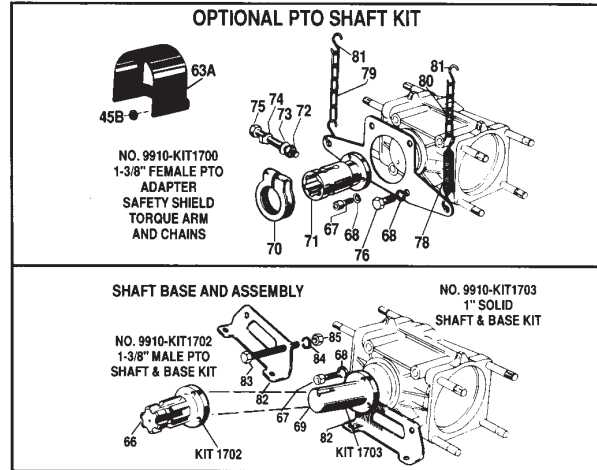
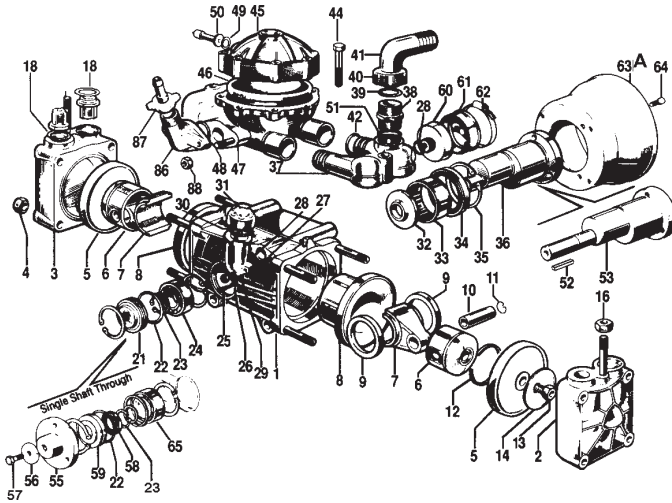
PART NO.	MODEL NUMBER	DESCRIPTION	FITS DIAPHRAGM PUMP MODELS	ESTIMATED WEIGHT EA.
70724	9910-HYD5312	Hydraulic motor mounting flange kit that includes one flange, one 1" hollow shaft and two bolts.	9910-D30, D303, D403, D50, D503, D813, D1064 and D1265	5.5 lbs.
70725	9910-HYD1570	Hydraulic motor mounting flange kit that includes one flange, one coupling and six bolts.	9910-D160 and D250	2.5 lbs.
70726	9910-HYD5341	Hydraulic motor mounting flange kit that includes one coupling and two pins.	9910-D115 and D70	5.5 lbs.

**H y p r o   D i a p h r a g m   P u m p s**

**DIAPHRAGM PUMP REPAIR KITS**

PART NUMBER	FOR PUMP MODEL 9910-	KIT MODEL NUMBER	DESCRIPTION
71755 71756 71757	D70	9910-KIT2363 9910-KIT2364 9910-KIT2365	Diaphragm kit Valve kit O-Ring kit
71831 71832 71833	D115 and D135	9910-KIT2369 9910-KIT2370 9910-KIT2026	Diaphragm kit Valve kit O-Ring kit
71834 71835 71836	D160	9910-KIT2373 9910-KIT2374 9910-KIT1908	Diaphragm kit Valve kit O-Ring kit
71837 71838 71839	D250	9910-KIT2310 9910-KIT2114 9910-KIT1904	Diaphragm kit Valve kit O-Ring kit
71840 71841	D12GRGI and D12GI/12V	9910-KIT1882 9910-KIT1992	Diaphragm kit Valve kit
71842 71843	D503	9910-KIT1881 9910-KIT1987	Diaphragm kit Valve kit
71844 71845 71846	D19 (all versions)	9910-KIT1723 9910-KIT1914 9910-KIT1913	Diaphragm kit Valve kit O-Ring kit
71847 70644 71848 70643	D30 (all versions)	9910-KIT2110 9910-KIT1724 9910-KIT1917 9910-KIT1916	Diaphragm kit (Buna-N diaphragm) Diaphragm kit (Desmopan diaphragm) Valve kit O-Ring kit
71849 70652 71850 70653	D50	9910-KIT2111 9910-KIT1725 9910-KIT1920 9910-KIT1919	Diaphragm kit (Buna-N diaphragm) Diaphragm kit (Desmopan diaphragm) Valve kit O-Ring
71851 71852 71853	D813	9910-KIT1886 9910-KIT1963 9910-KIT2376	Diaphragm kit Valve kit O-Ring kit
71851 71854 71855	D1064	9910-KIT1886 9910-KIT1964 9910-KIT2378	Diaphragm kit Valve kit O-Ring kit
71856 71854 71855	D1265	9910-KIT2100 9910-KIT1964 9910-KIT2378	Diaphragm kit Valve kit O-Ring kit
71857 71858 71859	D1554	9910-KIT1734 9910-KIT1965 9910-KIT1744	Diaphragm Kit Valve kit O-Ring kit
71860 71861 71862	D1516	9910-KIT2113 9910-KIT2053 9910-KIT2112	Diaphragm kit Valve kit O-Ring kit

Hypro Diaphragm Pump- Replacement parts for pump 9910-D30



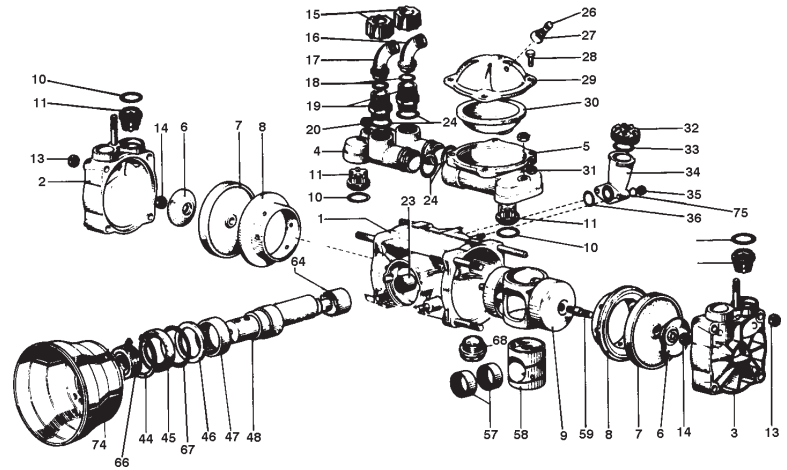
REF.	PART NO.	REPLACES	DESCRIPTION	QTY. REQ.
2	71254	9910-620101	Head assembly (right hand)	1
3	71255	9910-620102	Head assembly (left hand)	1
4	71256	9910-320130	Nut (12MA)	8
5	71406	9910-620085	Diaphragm (Desmopan)	2
6	71257	9910-620120	Piston	2
7	71258	9910-620140	Connecting rod	1
8	71259	9910-620110	Piston sleeve	2
9	71260	9910-580130	Retainer ring	2
10	71261	9910-380300	Connecting rod pin	2
11	71262	9910-380080	Retainer ring	4
12	71263	9910-160230	Piston ring	2
13	71264	9910-580360	Retaining bolt	2
*	71266	9910-550131	Lock nut	2
16	71267	9910-180150	Nut (10MA)	2
*	71268	9910-550200	Stud	2
18	71245	9910-620030	O-Ring	4
21	71271	9910-620025	Oil sealing cap	1
22	71246	9910-620210	O-Ring	1
23	71272	9910-620291	Retaining ring	1
24	71273	9910-620190	Ball bearing	2
25	71274	9910-390440	Nut	2
26	71275	9910-550331	Washer	2
27	71276	9910-550330	Stud	1
28	71247	9910-180101	O-Ring	1
29	71277	9910-550030	Oil sight glass	1
30	71248	9910-550040	O-Ring	1
31	71278	9910-550056	Cap for oil sight glass	1
32	71279	9910-620160	Spacer washer	1
33	71280	9910-550060	Roller bearings	1
34	71281	9910-620130	Seal	1
35	71282	9910-620330	Retainer ring	1
36	71283	9910-620170	Crankshaft	1
37	71284	9910-620150	Manifold	1
38	71285	9910-550340	Threaded adapter	1
39	71249	9910-550350	O-Ring	1
40	71286	9910-550242	Barb nut	1
41	71287	9910-550370	Hose barb	1
42	71250	9910-390060	O-Ring	4
	71289	9910-390270	Nut	8
44	71407	9910-621780	Bolt (8MAx40)	8

\*Not shown

REF.	PART NO.	REPLACES	DESCRIPTION	QTY. REQ.
45	71291	9910-620230	Accumulator head	1
45B	71316	2270-0004	Washer	2
46	71244	9910-550190	Accumulator diaphragm	1
47	71292	9910-622070	Accumulator pressure assy.	1
48	71293	9910-30211	Studs	2
49	71408	9910-650542	O-Ring	1
50	71294	9910-180020	Air valve	1
51	71252	9910-390290	O-Ring	1
52	71295	9910-620680	Key	1
53	71296	9910-620172	Crankshaft (AP model)	1
55	71297	9910-620661	Retainer	1
56	71409	9910-620670	Washer	1
57	71299	9910-180370	Bolt	1
58	71436	9910-620630	Seal	1
59	71300	9910-620021	Spacer	1
60	71324	9910-650660	Damper body	1
61	71325	9910-650670	Damper diaphragm	1
62	71326	9910-650690	Clamp	1
63A	71317	2840-0028	Shield	1
65	71273	9910-620190	Ball Bearing	1
66	71301	9910-620240	Male 6 spline 1 3/8" PTO shaft	1
67	71302	9910-620470	Bolt (10 MAx20)	3
68	71303	9910-200231	Lock washer	4
69	71304	9910-621600	1" solid shaft	1
70	71305	9910-500160	Collar	1
71	71306	9910-620270	Female 6 spline 1 3/8" PTO adapter	1
72	71256	9910-320130	Nut	1
73	71307	9910-320131	Washer	1
74	71308	9910-500171	Lock retaining washer	1
75	71309	9910-320170	Bolt (12MAx75)	1
76	71310	9910-620340	Bolt (12MAx20)	1
78	71312	9910-620650	Torsion spring	1
79	71313	9910-320640	Chain (450 mm)	1
80	71314	9910-320641	Chain (320 mm)	1
81	71315	9910-320650	"S" hook	3
82	71318	9910-380200	Base	2
83	71319	9910-380210	Bolt (8MAx75)	2
84	71320	9910-380241	Lock washer	2
85	71321	9910-380240	Nut	2
86	71322	9910-450145	Discharge flange housing	1
87	71323	9910-110130	Hose barb & nut	4
88	71289	9910-390270	Nut	2

**H y p r o D i a p h r a g m P u m p**

**9910-D60 PARTS ONLY**



**REPAIR KITS FOR PUMP**

PART NO.	REPLACES	DESCRIPTION
70645	9910-KIT1720*	Diaphragm repair kit
70646	9910-KIT1902 ^	O-Ring repair kit

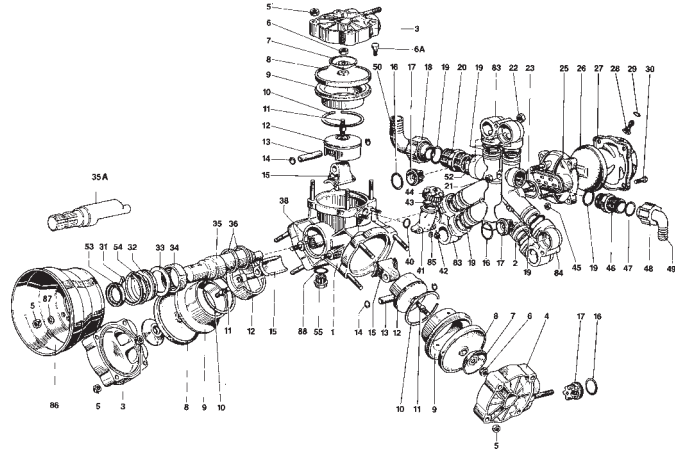
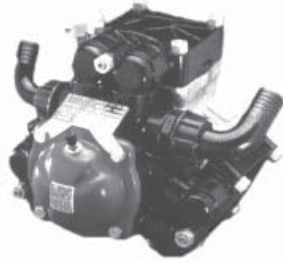
**REPLACEMENT PARTS FOR PUMP 9910-D60**

REF.	PART NO.	REPLACES	DESCRIPTION	QTY. REQ.
1	71327	9910-550010	Pump body	1
2	71328	9910-550101	Head assembly (right hand)	1
3	71329	9910-550102	Head assembly (left hand)	1
4	71330	9910-550150	Manifold	1
5	71331	9910-559200	Accumulator pressure assembly	1
7	71332	9910-550080*	Diaphragm	2
7	71333	9910-55008V	Viton diaphragm	2
8	71334	9910-550110	D60BP piston sleeve	2
9	71335	9910-550120	Piston	2
10	71336	9910-320030* ^	O-Ring	4
11	71395	9910-759050	Check valve assembly	4
12	71338	9910-550020	Stud	2
13	71267	9910-180150	Nut	8
14	71266	9910-550131	Lock nut	2
15	71286	9910-550242	Barb nut	2
16	71287	9910-550370	1" hose barb (inlet)	1
17	71339	9910-550380	3/4" hose barb (outlet)	1
18	71249	9910-550350 ^	O-Ring	2
19	71285	9910-550340	Threaded adapter	2
20	71267	9910-180150	Nut	2
21	71268	9910-550200	Stud	8
23	71340	9910-550310	Roller bearing	1
24	71252	9910-390290 ^	O-Ring	4
25	71276	9910-550330	Stud	2
26	71341	9910-550300	Air valve	1
27	71251	9910-650540 ^	O-Ring	1
28	71342	9910-180371	Bolt (8MAx25)	4
29	71343	9910-550230	Accumulator head	1
30	71244	9910-550190*	Accumulator diaphragm	1
31	71321	9910-380240	Nut	4
32	71278	9910-550056	Cap for oil sight glass	1
33	71248	9910-550040 ^	O-Ring	1
34	71277	9910-550030	Oil sight glass	1
35	71274	9910-390440	Nut	2
36	71247	9910-180101 ^	O-Ring	1
37	71344	9910-550290	Roll pin	

REF.	PART NO.	REPLACES	DESCRIPTION	QTY. REQ.
38	71256	9910-320130	Nut	1
39	71307	9910-320131	Washer	1
40	71305	9910-500160	Collar	1
42	71309	9910-320170	Bolt (12MAx75)	1
43	71345	9910-550250	Female splined shaft	1
44	71346	9910-200391	Retainer ring	1
45	71347	9910-550470	Seal ring	1
46	71348	9910-550070	Spacer for crankshaft	1
47	71280	9910-550060	Roller bearing	1
48	71349	9910-550170	D60BP crankshaft	1
49	71315	9910-320650	Chain, S hook	4
50	71313	9910-320640	Chain	1
51	71267	9910-180150	Nut	2
52	71303	9910-200231	Washer	2
53	71350	9910-320620	Washer	1
54	71351	9910-320630	Bolt	1
55	71352	9910-580020	Stud	2
56	71313	9910-320640	Chain	1
57	71353	9910-550280	Roller bearings	2
58	71354	9910-550140	Piston backup	1
59	71264	9910-580360	Retaining bolt	2
61	71355	9910-580080	Base	1
64	71357	9910-550160	Spacer sleeve	1
65	71358	9910-320610	Wing nut	1
66	71359	9910-550491	Oil seal cover	1
67	71360	9910-550480	Oil seal spacer ring	1
68	71361	9910-130171	Oil drain plug	1
69	71362	9910-550510	Adapter	1
70	71304	9910-621600	1" solid shaft	1
71	71301	9910-620240	1 3/8" male 6 spline PTO shaft	1
72	71303	9910-200231	Washer	3
73	71302	9910-620470	Bolt	3
74	71317	2840-0028	Safety shield	1
75	71316	2270-0004	Washer	4

**Hypro Diaphragm Pump**

**9910-D100 PARTS ONLY**



**REPAIR KITS FOR PUMP**

PART NO.	REPLACES	DESCRIPTION
70647	9910-KIT1721*	Diaphragm repair kit
70648	9910-KIT1905 ^	O-Ring repair kit

**REPLACEMENT PARTS FOR PUMP 9910-D100**

REF.	PART NO.	REPLACES	DESCRIPTION	QTY. REQ.
1	71363	9910-580010	Pump body	1
2	71364	9910-580150	Manifold	1
3	71328	9910-550101	Head assembly (right hand)	2
4	71329	9910-550102	Head assembly (left hand)	1
5	71267	9910-180150	Nut	12
8	71332	9910-550080*	Diaphragm	3
9	71366	9910-580110	Piston sleeve	3
10	71367	9910-500260	Piston ring	3
11	71264	9910-580360	Retaining bolt	3
12	71368	9910-580120	Piston	3
13	71261	9910-380300	Connecting rod pin	3
14	71262	9910-380080	Retainer ring	6
15	71369	9910-580140	Connecting rod	3
16	71336	9910-320030* ^	O-Ring	6
17	71395	9910-759050	Check valve assembly	6
18	71370	9910-580060	Hose barb nut	1
19	71252	9910-390290 ^	O-Ring for adapter	2
20	71371	9910-580030	Adapter	1
21	71289	9910-390270	Nut	3
22	71267	9910-180150	Nut	3
23	71372	9910-580050 ^	O-Ring	1
24	71373	9910-280030	Stud	3
25	71374	9910-580180	Accumulator pressure assembly	1
26	71244	9910-550190*	Accumulator diaphragm	1
27	71343	9910-550230	Accumulator head	1
28	71341	9910-550300	Air valve	1
29	71251	9910-650540	O-Ring	1
30	71342	9910-180371	Bolt (8MAx25)	4
31	71346	9910-200391	Retainer ring	1
32	71347	9910-550470	Seal	1
33	71348	9910-550070	Spacer ring	2
34	71280	9910-550060	Roller bearing	1
35	71349	9910-550170	Crankshaft	1
36	71260	9910-580130	Retainer ring	2
37	71268	9910-550200	Stud	12
38	71340	9910-550310	Roller bearing	1
39	71276	9910-550330	Stud	2
40	71247	9910-180101 ^	O-Ring	1

REF.	PART NO.	REPLACES	DESCRIPTION	QTY. REQ.
41	71277	9910-550030	Oil sight glass	1
42	71274	9910-390440	Nut	2
43	71248	9910-550040 ^	O-Ring	1
44	71278	9910-550056	Cap for oil sight glass	1
45	71321	9910-380240	Nut	4
46	71285	9910-550340	Threaded adapter	1
47	71249	9910-550350 ^	O-Ring	1
48	71287	9910-550370	1" hose barb (outlet)	1
49	71286	9910-550242	Barb nut	1
50	71375	9910-580040	1 1/8" hose barb (inlet)	1
51	71338	9910-550020	Stud	3
52	71376	9910-250310 ^	Adapter	1
53	71359	9910-550491	Oil seal cover	1
54	71360	9910-550480	Spring for pressure ring	1
55	71361	9910-130171	Oil drain plug	1
56	71317	2840-0028	Safety shield	1
57	71316	2270-0004	Washer	4
58	71256	9910-320130	Nut	1
59	71307	9910-320131	Washer	1
60	71305	9910-500160	Collar	1
61	71308	9910-500171	Lock retaining washer	1
62	71309	9910-320170	Bolt(12MAx75)	1
63	71344	9910-550290	Roll pin	2
64	71345	9910-550250	Female splined shaft	1
65	71377	9910-380271	Torque bracket	1
66	71267	9910-180150	Nut	2
67	71303	9910-200231	Lock washer	2
68	71378	9910-650340	S hook	4
69	71313	9910-320640	Chain	2
70	71358	9910-320610	Wing nut	1
71	71350	9910-320620	Washer	1
72	71351	9910-320630	Eye bolt	1
74	71302	9910-620470	Bolts	3
75	71303	9910-200231	Washer	3
76	71301	9910-620240	1 3/8" male 6 spline PTO shaft	1
77	71362	9910-550510	Adapter	1
78	71304	9910-621600	1" solid shaft	1
80	71355	9910-580080	Base	1
82	71379	9910-540300	Bolt (10MAx30)	1



**Flojet Electric Diaphragm Pumps**

PART NO.	NEW REPLACES	OLD REPLACES	VOLTS	AMPS	DEMAND SWITCH OR RELIEF VALVE	PRESSURE RANGE	GALLONS PER MIN.
70240		2100-755	12	7	Demand Switch	25 - 60	1 - 2
70241		2100-894	12	7	Relief Valve	**0 - 45	1 - 2
70242	2100-734	2100-774	12	7	Relief Valve	**0 - 30	1 - 2
70243		4300-142	12	9	Demand Switch	30 - 45	3.7
70244		2100-959	12	8	Relief Valve	**0 - 70	1 - 2
70257		2100-615	12	8	Relief Valve	**0-60	1 - 22
70262		2100-979	115	.5	Relief Valve	0 - 60	1 - 2
70245	2100-914	2100-855	115	.5	Relief Valve	**0 - 50	1 - 2
70179	D3835V5011		115	.5	Demand Switch	0 - 60	1 - 2
70246	D3225H1411	2100-856	24	4.0	Relief Valve	0-70	1 - 2
70247		2100-573	12	7	Relief Valve	**0 - 70	1 - 2.1
70254	D3135B1411	2100-596	12	7	Relief Valve	**0 - 31	1 - 1.1
70255		2100-840	12	7	Relief Valve	**0 - 50	1 - 2.1
70198	4300-504A		12	14	Demand Switch	0-40	4.5
70197	4100-502A		12	14	on/off	0-40	4.5

\*\*Non Adjustable Pressure



**SPP 70240  
DEMAND PUMP**



**SPP 70242  
RELIEF VALVE PUMP**

- **DEMAND SWITCH MODELS** operate only when liquid flow is required. Pump and motor stop instantly when discharge is closed.
- **RELIEF VALVE MODELS** have pressure controlled by an internal relief valve, and run continuously unless electric current is turned off
- Diaphragm design eliminates troublesome shaft seal.
- Pump can be run indefinitely without damage.
- No metal comes in contact with liquid being pumped.
- Ball bearing drive – assures longer pump life.
- Excellent self-priming capability.
- Nitrile diaphragms and viton valves are standard.
- Small solids, such as dirt, sand, and powders will not damage pump.
- Maximum temperature of pumped liquid 160°F (71°C).
- Permanent magnet motor – long life brushes.
- Not to be used for Petroleum based products

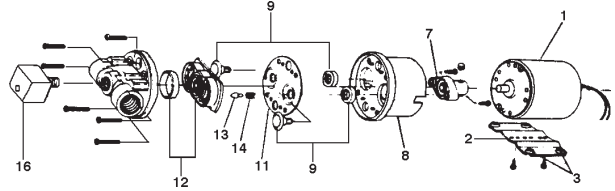
**SEE PARTS BREAKDOWN  
ON NEXT PAGE AND PAGE 1-71**

PART NO.	DESCRIPTION
SPP 71727***	Viton check valve repair kit for 2000 & 2100 series relief valve pumps (includes check valve & o-Ring)
SPP 71728****	Viton check valve repair kit for 2000 & 2100 series demand pumps (includes check valve & o-Ring)
SPP 70692**	Nitrile diaphragm repair kit for 2000 & 2100 series pumps (includes diaphragm & pistons)
SPP 70693*	Cam bearing repair kit for 2100 series pumps (includes cam bearing set screw)
SPP 70694	Diaphragm repair kit for 4300 series pumps (includes pistons & screens)
SPP 70695	Check valve repair kit for 4300 series pumps (includes o-ring & ferrules)

**Flojet Electric Diaphragm Pump**

**PARTS LIST FOR 2000 SERIES FLOJET PUMPS (MANUFACTURED UNTIL SEPTEMBER 1989)**

REF	PART NO.	REPLACES	DESCRIPTION	QTY.
1	71720	02009-004	Motor 12 Volt	1
1	71721	02029-000	Motor 110 Volt	1
2	71722	11028-101	Base	1
3	71723	20132-000	Grommets	set of 4
7	71725	21022-012	Cam bearing Assembly	1
8	71726	20016-000	Bearing Cover	1
9	See Kit	See **	Piston inner & outer (includes No. 11)	2
11	See Kit	See **	Diaphragm (includes No. 9)	1
12	71727	20028-086	Check valve assembly Viton (relief valve pump)***	1
12	71743	20028-022	Check Valve assembly Buna (relief valve pump)	1
12	71728	20028-087	Check valve assembly Viton (demand pump)****	1
14	71730	91005-001	Relief valve spring 20-30 psi	2
16	71732	02095-100	Pressure switch (demand pump)	1
	71733	20097-001	Brush kit (12 volt)	set of 2
	71747	21010-002	Diaphragm Buna	
	71749	21010-004	Diaphragm EPDM	

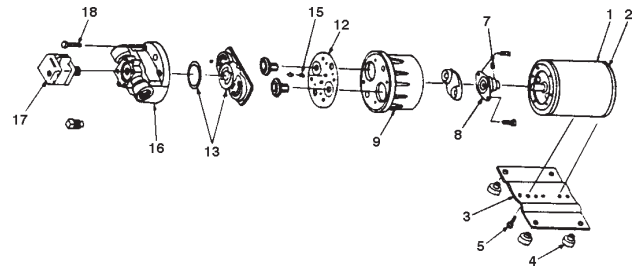


**REPAIR KITS FOR 2000 SERIES PUMPS**

PART NO.	REPLACES	DESCRIPTION
71747**	21010-002	Diaphragm kit Nitrile
71727***	20028-086	Viton check valve assy. (relief valve pump)
71728****	20028-087	Viton check valve assy. (demand pump)

**PARTS LIST FOR 2100 SERIES FLOJET PUMPS (MANUFACTURED AFTER SEPTEMBER 1989)**

REF	PART NO.	REPLACES	DESCRIPTION	QTY.
1	71720	02009-004	Motor 12 volt	1
1	71721	02029-000	Motor 110 volt	1
2	71734	20115-116	Brush end bell assy. (D.C.)	1
3	71722	11028-101	Base plate	1
4	71723	20132-000	Grommet	set of 4
5	71735	20131-002	Screw (for base plate)	2
7	71737	20552-000	Set screw (for cam bearing)	1
8	See kit	See *	Cam/bearing	1
9	71738	20428-100	P.P. bearing cover	1
10	See kit	See **	Piston (inner & outer)	2
12	See kit	See **	Diaphragm	1
13	71727	20028-086	Check valve assembly Viton (relief valve pump)***	1
13	71743	20028-022	Check valve assembly Buna (relief valve pump)	1
13	71728	20028-087	Check valve assembly Viton (demand switch pump)****	1
15	71739	20378-003	Bypass spring 60 to 70 psi (relief valve pump)	2
16	71740	20500-507	P.P. pump housing	1
17	71732	02095-100	Pressure switch 60 psi (demand pump)	1
*	71748	5157096	Fuse Holder	
18	71736	20131-001	Pump Screw	
	71747	21010-002	Diaphragm Buna	
	71749	21010-004	Diaphragm EPDM	
	71750	20028-008	Santoprene check valve assembly (demand pump)	
	71753	20028-002	Santoprene check valve assembly (relief pump)	

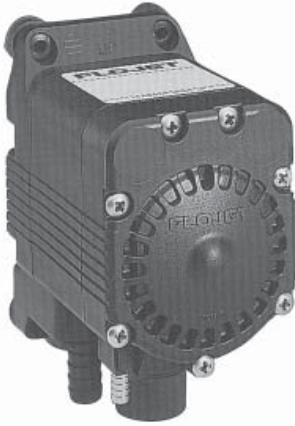


**REPAIR KITS FOR 2000 SERIES PUMPS**

PART NO.	REPLACES	DESCRIPTION
70693*	21004-002	Cam/bearing kit
71747**	21010-002	Diaphragm kit Nitrile
71727***	20028-086	Viton check valve kit (relief valve pump)
71728****	20028-087	Viton check valve kit (demand switch pump)

\*Not shown

**Flojet Air Operated Diaphragm Pump**



**PRODUCT DATA**

Pump Design ..... Duplex Diaphragm  
 Wetted Parts ..... Diaphragm Material Santoprene®  
 ..... Check Valve Seat Material Santoprene®  
 ..... Housing and check valve material  
 ..... Polypropylene (Glass Reinforced)  
 ..... Springs ..... Hastelloy  
 Ports ..... Gas Inlet & Outlet 1/4" (6.3 mm)  
 Product Inlet 3/8" (9.5 mm)  
 Product Outlet 3/8" (9.5 mm)  
 Net Weight ..... 1.2 Pounds (0.54kg)  
 ® A registered trade mark of Monsanto Co.  
 ® A registered trade mark of I.E. DuPont Co.

**PERFORMANCE SPECIFICATIONS PUMP**

Liquid Temperature Min 40°F (4.4°C)  
 ..... Max ..... 120°F (48.9°C)  
 Priming ..... Dry ..... 15 ft. (4.5 m)  
 ..... Wet ..... 20 ft. (6.1 m)  
 Flow Rates ..... Max Up to 5 GPM (18.9 L/min)  
 Gas Supply Pressure ..... 20 to 100 PSI (1.4 to 6.9 bar)  
 Noise Level ..... Max ..... 87dB

**DESCRIPTION**

FLOJET Industrial G-57 Series Pumps are designed for general commercial and industrial applications. These pumps are constructed from a selection of materials for handling a broad range of chemicals.

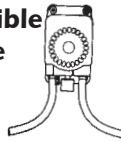
**Allowed fluids for Santoprene® materials**

Potable Water, Acids Alkaline, Soaps Alcohols, Ketones

**Not Allowed Fluids for Santoprene® materials**

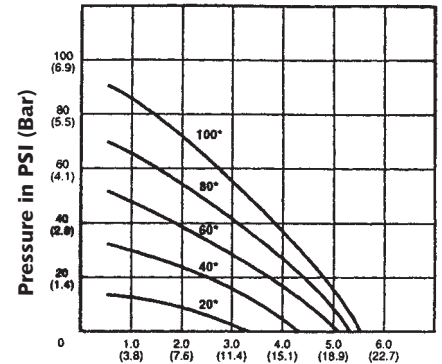
Oils, Solvents, Soaps with Solvents, D-Limonene, Aromatic Hydrocarbons

**Flexible Hose**



**Rigid Pipe**

**Santoprene and Viton Material with 1/2" Ports**



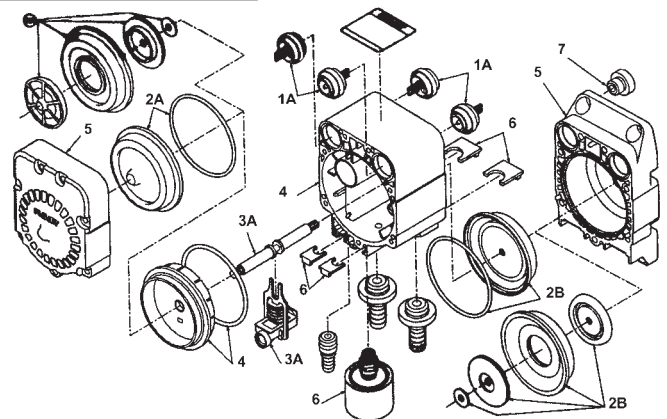
Flow in gpm (l/min) \*Indicates airlet pressure

PART NO.	REPLACES
70261	G575205

**WARNING: DO NOT PUMP GASOLINE OR FLAMMABLE LIQUIDS OR USE WHERE FLAMMABLE VAPORS ARE PRESENT.**

**REPLACEMENT PARTS FOR G575205**

REF. NO.	PART NO.	REPLACES	DESCRIPTION	Qty.
1A	70480	20740-050A	Kit, Check Valve, Assy., Santo®, Hastelloy	4
2A	70481	20730-000A	Kit, Diaphragm, Santo®, w/O-Rings	2
3A	70482	20751-000A	Kit, Shaft & Slide Valve Assy. (Santo®)	2
4	70483	20896-000A	Kit, Flange & Housing Assy.w/O-Ring	2
5	70484	20753-000A	Kit End Caps	2
6	70485	20793-100A	Kit Hardware - Includes Screws #10x1.5" Hi Low Retainer Clip Small Retainer Clip Large Exhaust Port Exhaust Muffler	14 2 2 1 1
7	70486	20132-000	Kit, Grommets	2



**Flojet Sensor VSD Pump**



PART NO.	REPLACES
70258	R4515743
70259	R4525743

**FLOJET R4515/R4525 SERIES SENSOR VSD WATER SYSTEMS**

**Styles Available:** **Sensor VSD 3.7** Model No. R4515-743  
0-3.7 gpm VSD Water Pressure System  
**Sensor VSD 4.5** Model No. R4525-743  
0-4.5 gpm VSD Water Pressure System

**SHUT-OFF PRESSURE**

R4515 35psi ..... (2.4 bar)  
R4525 40 psi ..... (2.8 bar)

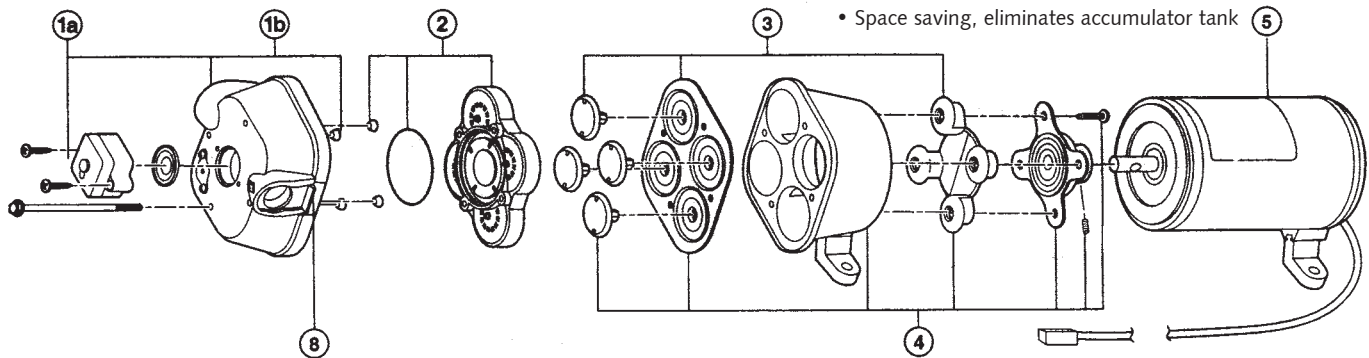
**SPECIFICATIONS (PATENT PENDING)**

Materials	Pump Body .....	Polypropylene
	Diaphragm .....	Santoprene
	Valves .....	EPDM
	Sensor .....	Magnetic Hall Effect
	VSD .....	PWM Solid State
Temperature	Water .....	160°F (70°C) max
	Motor .....	266°F (130°C) max
Thermal Protection	Motor .....	266°F (130°C) max
	Motor .....	266°F (130°C) max
Dimensions	R4515 .....	3.75"H x 6.3W x 9.0"L (95mm x 160mm x 221 mm)
	R4525 .....	3.75"H x 6.3"W x 10.3"L (95mm x 160mm x 252mm)
	R4515 .....	3.75"H x 6.3W x 9.0"L (95mm x 160mm x 221 mm)
Weight	R4515 .....	4.3 lb/2.0 kg
	R4525 .....	6.3 lb / 3.0 kg
Flow	R4515 .....	0-3.7 gpm / 14 lpm
	R4525 .....	0-4.5 gpm / 17 lpm
Running Pressure (see curves)	R4515 .....	25 psi (1.7 bar)
	R4525 .....	30 psi (2.1 bar)
	R4525 .....	30 psi (2.1 bar)

**PRODUCT FEATURES**

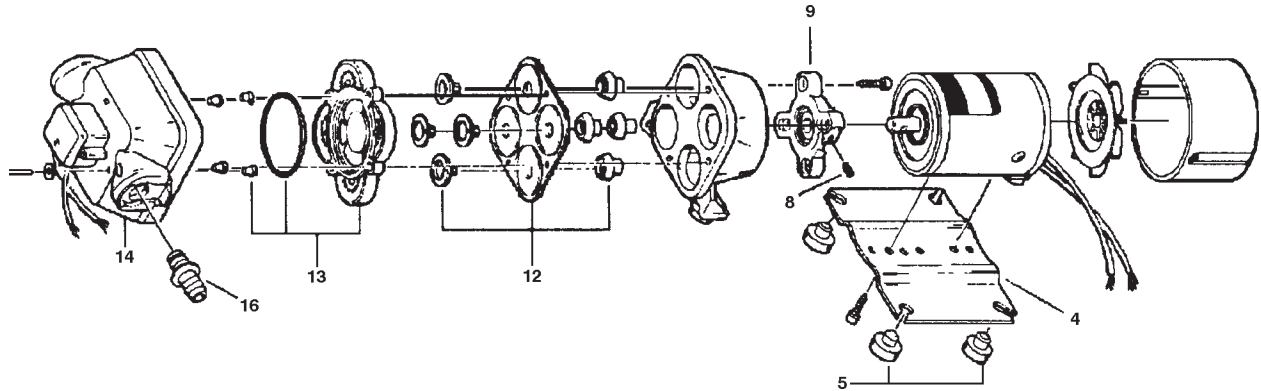
- Variable speed Drive
- Water Pressure System Pump
- Solid state proprietary micro controller
- Automatically adjusts to 12 or 24 V dc electrical systems
- Pressure regulated variable speed drive
- Hall effect pressure sensor - pat. pend.
- No switch, no points, no contacts
- Reduced current, extended life
- Saves energy at all flow rates
- CSA listed for US and Canadian sales
- EN ISO 8846 USCG Ignition Protection
- Space saving, eliminates accumulator tank

**REPLACEMENT PARTS FOR SENSOR VSD PUMPS**



KEY	PART NO.	MODEL #4515-743	PART NO.	MODEL #4525-743	DESCRIPTION
0	70487	20409-043	70487	20409-043	Service Kit
1	70488	20404-027	70489	20404-028	Upper Housing with Sensor Housing
2	70695	20407-030	70695	20407-030	Check Valve Assembly
3	70694	20403-040	70694	20403-040	Diaphragm Assembly (includes screws)
4	70492	20419-002	70492	20419-002	Lower Housing Assembly
5	70493	R2009-128A	70494	R2009-127A	Motors with Sensor
7	70495	20406-037A	70496	20406-038A	Pump Head Assembly
8	71742	20408-000	71742	20408-000	Side Clips (pair)

**Flojet Model 4300 Series Parts List**



REF	PART NO.	REPLACES	DESCRIPTION
4	71722	11028-101	Baseplate assy. with grommet & screws
5	71723	20132-000	Grommet kit
8	71737	20552-000	Cam/bearing set screw
9	71746	20400-002	Cam/bearing kit with set screw
12	70694	20403-040	Diaphragm kit, santo with piston & screws

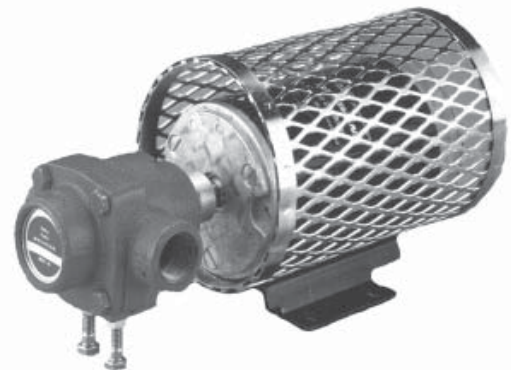
REF	PART NO.	REPLACES	DESCRIPTION
13	70695	20407-030	Check valve assy. kit EPDM with O-Ring & ferrules
14	70696	20404-001	Upper housing switch assy. kit
16	71741	20381-002	1/2" port hose barb
	71742	20408-000	Port clip
	71752	20132-005	Fan & shroud kit

**DELAVAN ELECTRIC ROLLER PUMP**

PART NO.	REPLACES	DESCRIPTION
70260	4401C-M12	12 volt motor driven 4 roller pump

**FOR REPLACEMENT PARTS SEE DELAVAN 4 ROLLER PUMP BREAKDOWN ON PAGE 1-4.**

For the smaller pumping jobs, where a tractor PTO is not available the power to run this pump comes from the tractor's 12 volt battery.



PRESSURE (PSI)	FLOW RATE (GPM)	AMPERES
0	6.8	13.3
5	6.5	15.1
10	6.5	17.0
15	5.8	18.8
20	5.4	20.7
25	5.1	22.5
30	4.7	24.4
35	4.4	26.2
40	4.1	28.1

**FEATURES**

- Pressure to 40 psi (276 kPa)
- Capacity is 6.8 gpm (25.7 L/min) at 0 psi (0 kPa) or 4.1 gpm (15.5 L/min) at 40 psi (275 kPa)
- Draws 28.1 amperes at 40 psi (275 kPa)
- Body and endplate – cast iron
- Ball bearings – heavy-duty shielded bearings support shaft at both ends. These sealed bearings are lubricated at the factory for the life of the pump
- Shaft – 1/2" hollow, 416 stainless steel
- Rotor – corrosion resistant alloy
- Rollers – 1/2" polypropylene
- Seals – cartridge type, Viton lip seals
- Ports – 3/4" NPT (F) side ports
- Rotation – clockwise rotation when facing the motor shaft end
- Mounting hole configuration interchanges with competitive unit

## Shurflo 8000 Series Diaphragm Pumps

### AUTOMATIC DEMAND 12 VDC

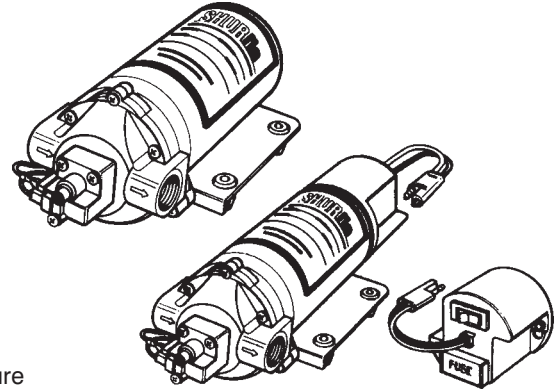
#### Features

- Self priming up to 8 feet [2.4m]
- Chemical resistant material
- Designed for heavy duty spraying and fluid transfer applications
- Can run dry without damage

#### Additional features of pump with Elect. Pkg.\*\*

- Built in on/off switch included
- In-line fuse assembly provided

The 8000 Series diaphragm pump is Shurflo's most widely used agriculture pump. With its conical shaped viton valves and automatic demand switch. The 8000 Series pump is the pump of choice for sprayers used on the farm or around the yard. These 12 VDC pumps deliver up to 1.4 gpm [5.3 lpm] providing maximum performance in a wide range of applications



**ELECTRICAL PKG.  
PART NO. SPP 71759**

PART NO.	MODEL	DESCRIPTION	PSI	BAR	GPM	LPM	AMPS
70290	8000-343-236	All Viton Pump 1.2 gpm [4.5 lpm] open flow, all Viton elastomers 60 psi [4.1 bar] Demand Switch, 3/8" NPT-Female ports.	20	1.4	.93	3.5	3.9
			40	2.8	.84	3.2	4.9
			60	4.1	.76	2.9	5.8
70287	8000-541-236	Lawn and Garden Pump 25 gallon [95 lt] tank or less, 1.0 gpm [3.8 lpm] open flow, Viton valves, Santoprene diaphragm, 60 psi [4.1 bar] Demand Switch, 3/8" NPT - Female ports.	20	.89	.70	3.0	2.3
			40	2.8	.70	2.6	3.2
			60	4.1	.62	2.3	3.8
70263	8000-542-136	Low Flow Standard Pump 1.2 gpm open flow, Viton® valves, Santoprene® diaphragm, 60 PSI Demand Switch, 1/2" MSPT* ports	20	1.4	1.11	4.3	4.1
			40	2.8	0.98	3.7	5.1
			60	4.1	0.90	3.4	6.0
70264	8000-542-296	Switch/Bypass Pump 1.3 gpm open flow, Viton® valves, Santoprene® diaphragm, 60 psi Internal Bypass, with 60 psi demand switch, 3/8" NPT-Female ports	20	1.4	1.18	4.5	3.7
			40	2.8	1.06	4.0	4.9
			60	4.1	0.90	3.4	5.9
70265	8000-543-136	Standard Pump 1.4 gpm open flow, Viton® valves, Santoprene® diaphragm, 60 PSI Demand Switch, 1/2" MSPT* ports.	20	1.4	1.26	4.7	5.0
			40	2.8	1.14	4.3	6.2
			60	4.1	1.02	3.9	7.3
70280	8000-543-236	Standard Pump 1.4 gpm [5.3 lpm] open flow, Viton valves, Santoprene diaphragm, 60 psi [4.1 bar] Demand Switch, 3/8" NPT - Female ports.	20	1.4	1.26	4.7	5.0
			40	2.8	1.14	4.3	6.2
			60	4.1	1.02	3.9	7.3
70289	8000-543-238	High Pressure Pump 1.4 gpm [5.3 lpm] open flow, Viton valves, Santoprene diaphragm, 100 psi [6.9 bar] Demand Switch, 3/8" NPT - Female ports	20	1.4	1.45	5.5	4.2
			40	2.8	1.31	5.0	5.5
			60	4.1	1.22	4.6	6.5
			100	6.9	0.96	3.6	8.7
70266	8000-543-936	Standard Pump w/Wire Harness 1.4 gpm open flow, Viton® valves, Santoprene® diaphragm, prewired with two wire molded connectors, 60 psi Demand Switch, 3/8" NPT-Female ports.	20	1.4	1.26	4.7	5.0
			40	2.8	1.14	4.3	6.2
			60	4.1	1.02	3.9	7.3
70267	8000-643-236	Transfer Pump 1.8 gpm open flow, Buna valves, Geolast® diaphragm 60 psi Demand Switch, 3/8" NPT-Female ports	20	1.4	1.44	5.4	4.1
			40	2.8	1.33	5.0	5.6
			60	4.1	1.22	4.6	6.8
70268	8006-543-236	Standard Pump w/Reversed Pump Head 1.4 gpm open flow, Viton® valves, Santoprene® diaphragm 60 psi Demand Switch, 3/8" NPT -Female ports	20	1.4	1.26	4.7	5.0
			40	2.8	1.14	4.3	6.2
			60	4.1	1.02	3.9	7.3
70288	8007-543-236	Standard Pump w/Electrical Package** 1.4 gpm [5.3 lpm] open flow, Viton valves, Santoprene diaphragm, 60 psi [4.1 bar] Demand Switch with built-in on/off power switch, fuse holder, prewired with two wire molded connector and motor shroud, 3/8" NPT - Female ports.	20	1.4	1.57	5.9	4.3
			40	2.8	1.39	5.3	5.6
			60	4.1	1.23	4.7	6.8
70291	8030-813-239	150 psi High Pressure Pump 1.5 gpm [5.7 lpm] open flow, Viton valves, Santoprene diaphragm, 150 psi [10.3 bar] Demand Switch, 3/8" NPT - Female ports.	80	5.5	.94	3.5	4.6
			100	6.9	.86	3.2	6.3
			150	10.2	.61	2.3	7.5

**SEE PAGE 1-81 FOR PARTS BREAKDOWN**

**8000 Series Diaphragm Pumps**

**BY-PASS 12 VDC**

**Features**

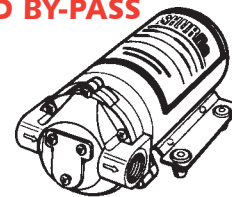
- Self priming up to 8 feet [2.4 m]
- Chemical resistant materials
- Internal bypass
- Can run dry without damage

**Additional features of pump with Elect. Pkg.\*\***

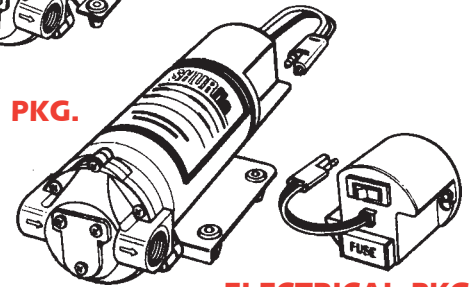
- Built in on/off switch included
- In-line fuse assembly provided

These Shurflo internal bypass pumps are the answer to applications where an automatic demand switch is not required. Pumps with by-pass will continue to run at high pressure. Ideal for intermittent duty applications. They incorporate a triple chamber with viton elastomers to withstand the toughest of applications. Perfect for spot sprayers, foam markers and transfer applications where smooth consistent flow is needed

**STANDARD BY-PASS**



**BY-PASS  
W/ELECT. PKG.**



**ELECTRICAL PKG.  
PART NO.71759  
ROCKER SWITCH  
PART NO. 71758**

**SEE PAGE 1-81 FOR PARTS BREAKDOWN**

PART NO.	MODEL	DESCRIPTION	PSI	BAR	GPM	LPM	AMPS
70281	8000-543-250	Standard By-Pass Pump 1.4 gpm [5.3 lpm] open flow, Viton valves, Santoprene diaphragm, 45 psi [3.1 bar] internal by-pass, 3/8" NPT - Female ports	20	1.4	1.20	4.5	3.9
			40	2.8	1.10	4.2	5.2
			60	4.1	1.00	3.8	6.2
70284	8007-543-850 used on all Westward sprayers	By-Pass Pump w/Elect. Pkg.** 1.4 gpm [5.3 lpm] open flow, Viton valves, Santoprene diaphragm, 60 psi [4.1 bar] internal by-pass with built-in on/off switch, Prewired w/2-wire molded connector and motor shroud, 3/8" NPT - Female ports.	20	1.4	1.20	4.5	3.9
			40	2.8	1.10	4.2	5.2
			60	4.1	1.00	3.8	6.2
70269	8006-543-250	Bypass Pump w/Reserved Pumphead 1.4 gpm open flow, Viton® valves, Santoprene® diaphragm, 60 psi internal bypass with built-in on/off switch, Fuse holder, Prewired w/2-wire molded connector and motor shroud. No Demand Switch, 3/8" NPT-Female ports.	20	1.4	1.30	4.9	4.0
			40	2.8	0.69	2.6	5.2
			50	4.1	0.18	0.7	5.5

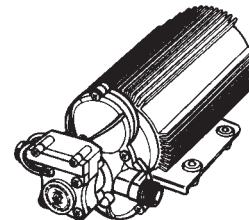
**2088 SERIES DIAPHRAGM PUMPS  
AUTOMATIC DEMAND 12V DC**

**Features**

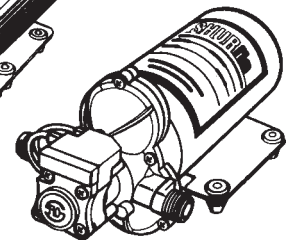
- Self Priming up to 12 feet [3.7 m]
- Can run dry without damage
- Built-in check valve (may vary on models) prevents back flow of fluid into the solution tank
- Continuous duty motor (fin cooled version only)
- Chemical resistant materials
- Automatic demand

Shurflo 2088 Series diaphragm pumps are considered to be the workhorse of pumps. They are used in a variety of spot spraying, mini-bulk transfer and fertilizer applications that require flows of up to 3.6 gpm [13.6 lpm]. They are available in a variety of chemical resistant materials

**PREMIUM**



**STANDARD**



PART NO.	MODEL	DESCRIPTION	PSI	BAR	GPM	LPM	AMPS
70292	2088-313-145	Premium Pump with Fin Cooled Motor 3.6 gpm [13.6 lpm] open flow, Viton valves, Santoprene diaphragm 45 psi [3.1 bar] Demand Switch, 1/2" MSP ports, Continuous duty	10	0.7	3.09	11.7	6.4
			30	2.1	2.49	9.4	8.7
			50	3.4	1.90	7.2	10.1
70282	2088-343-135	Standard Pump 3.0 gpm [11.3 lpm] open flow, Viton valves, Santoprene diaphragm, 45 psi [3.1 bar] Demand Switch, 1/2" MSP ports.	10	0.7	2.80	10.6	5.3
			30	2.1	2.36	8.9	6.7
			50	3.4	1.42	5.4	8.0
70317	2088-474-144	Standard Pump, 24V 3.0 gpm open flow, Viton valves, Santoprene diaphragm, 45 psi [3.1 bar] Demand Switch, 1/2" MSP Parts					

**SEE PAGE 1-82 FOR PARTS BREAKDOWN**

## Shurflo Power Twin Pump™

### POWER TWIN PUMP™

#### "FIRST IN FLUID INNOVATION"

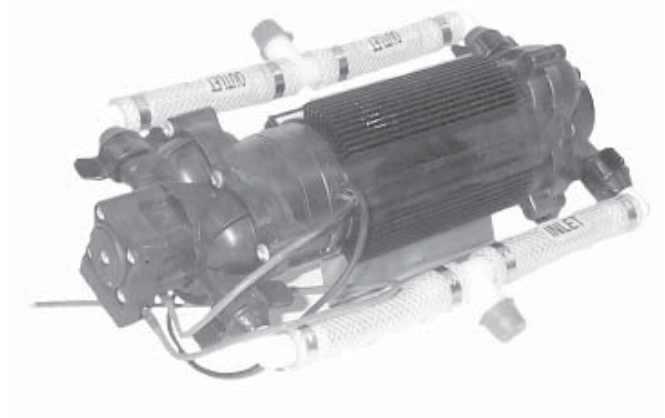
#### SHURFLO IS PLEASED TO OFFER OUR NEW TWIN-HEAD HIGH FLOW PUMP!

For over a decade Shurflo's 2088 Series family of pumps has proven reliable, durable and powerful performance in a wide range of applications.

- Self priming
- Up to 7 gpm
- 45 psi pressure setting
- Splash-proof switch

#### GREAT FOR PROPORTIONING FLUIDS

- Low AMP draw
- Optional manifold system
- Quiet/balanced operation
- Long life premium motor



PART NO.	MODEL #	DESCRIPTION
70315	4111-035	12 VDC with heat sink, Viton valves, Santoprene diaphragm, splash-proof switch, 45 psi with manifold
70316	4211-035	12 VDC with heat sink, Viton valves, Santoprene diaphragm, splash-proof switch, 45 psi, no manifold

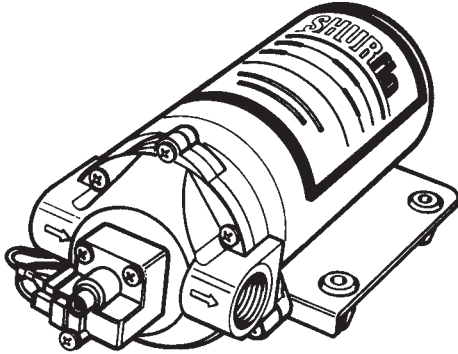
#### TYPICAL PERFORMANCE

PRESSURE (PSI/BAR)	FLOW (GPM/LPM)	CURRENT	VOLTAGE
OPEN	7.0/26.5	9.8	12 VDC
10/0.7	6.4/24.2	12.8	12 VDC
20/1.4	5.8/22.0	15.2	12 VDC
30/2.1	5.0/18.7	17.1	12 VDC
40/2.8	4.2/16.0	19.1	12 VDC



**8000 and 8020 Series Diaphragm Pumps**

**AUTOMATIC DEMAND 115V AC**



**Features**

- Self priming up to 8 feet [2.4 m]
- Chemical resistant materials
- Can run dry without damage
- Built-in check valve
- Corded pump optional

These Shurflo 8000 and 8020 Series Demand pumps provide the same reliability as the 12 VDC version except in a 115 VAC capacity. They are ideal in agricultural applications that require high pressure with flow rates up to 1.4 gpm [5.3 lpm] with low amp draw. They can be mounted in any position, are compact, and are designed for long trouble free life.

PART NO.	MODEL	DESCRIPTION	PSI	BAR	GPM	LPM	AMPS
70286	8000-033-236	All Viton Pump 1.0 gpm [3.8 lpm] open flow, Viton valves, Viton diaphragm 60 psi [4.1 bar] demand switch, 3/8" NPT - female ports	20	1.4	.89	3.4	.40
			40	2.8	.76	2.9	.48
			60	4.1	.64	2.4	.54
70294	8000-533-236	Standard Pump 1.4 gpm [5.3 lpm] open flow, Viton valves, Santoprene diaphragm, 60 psi [4.1 bar] demand switch, 3/8" NPT - female ports	20	1.4	1.15	4.3	.46
			40	2.8	.97	3.7	.55
			60	4.1	.85	3.2	.64
70304	8020-513-236	Standard pump with 6' [1.8 m] Power Cord 1.4 gpm [5.3 lpm] open flow, Viton valves, Santoprene diaphragm, 60 psi [4.1 bar] demand switch, 3/8" NPT - female ports, Polypro parts	10	0.7	1.26	4.8	.41
			20	1.4	1.15	4.3	.46
			30	2.1	1.05	4.0	.51
			40	2.8	.97	3.7	.55
			50	3.4	.91	3.4	.60
70293	8020-833-238	High Pressure Pump with 6' [1.8 m] Power Cord 1.4 gpm [5.3 lpm] open flow, Viton valves, Santoprene diaphragm, 100 psi [6.9 bar] demand switch, 3/8" NPT - female ports, Nylon parts	60	4.1	1.00	3.8	.70
			70	4.8	.96	3.6	.74
			80	5.5	.93	3.5	.78
			90	6.2	.89	3.4	.82
			100	6.9	.85	3.2	.85
			80	5.5	.94	3.5	.76
			100	6.9	.86	3.2	.86
70296	8030-863-239	150 psi High Pressure Pump 1.5 gpm [5.7 lpm] open flow, Viton valves, Santoprene diaphragm, 150 psi (10.3 bar) demand switch 3/8" NPT female ports	150	10.2	.61	2.3	1.00

**SEE PAGE 1-81 FOR PARTS BREAKDOWN**

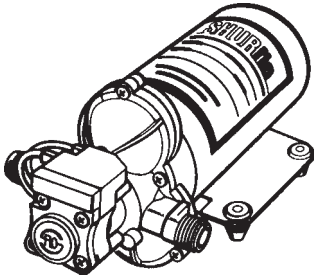
**8000 AND 8020 SERIES DIAPHRAGM PUMPS**

**BY-PASS 115 VAC**

PART NO.	MODEL	DESCRIPTION	PSI	BAR	GPM	LPM	AMPS
70305	8020-503-250	By-pass pump with 6 ft. power cord. 1.4 gpm [5.3 lpm] open flow, Viton valves, Santoprene diaphragm, 45 psi [3.1 bar] internal by-pass, 3/8" NPT - female ports, nylon parts	10	0.7	1.36	5.1	.34
			20	1.4	1.21	4.6	.41
			30	2.1	1.05	4.0	.46
			40	2.8	.65	2.5	.51
			50	3.4	.19	0.7	.54

## 2088 Series Diaphragm Pumps

### AUTOMATIC DEMAND 115 VAC



#### Features

- Self Priming up to 12 feet [3.7 m]
- Can run dry without damage
- Built-in check valve (may vary on models) prevents back flow of fluid into the solution tank
- Chemical resistant materials
- Automatic demand

Shurflo 2088 Series diaphragm pumps are considered to be the workhorse of pumps. They are used in a variety of spot spraying, mini-bulk transfer and fertilizer applications that require flows of up to 3.6 gpm [13.6 lpm]. They are available in a variety of chemical resistant materials

**SEE PAGE 1-82 FOR PARTS BREAKDOWN**

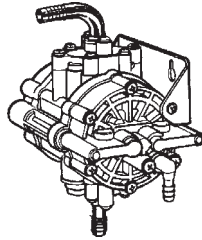
PART NO.	MODEL	DESCRIPTION	PSI	BAR	GPM	LPM	AMPS
70310	2088-394-144	Standard Pump with Power Cord	10	0.7	2.40	9.1	.55
		3.0 gpm [11.4 lpm] open flow, Viton valves, Santoprene diaphragm,	30	2.1	1.90	7.2	.65
		45 psi [3.1 bar] Demand Switch, 1/2" MSP ports	50	3.4	1.40	5.3	.75
70295	2088-394-154	Standard Pump	10	0.7	2.71	10.2	.65
		3.2 gpm [12.1 lpm] open flow, Viton valves, Santoprene diaphragm,	30	2.1	2.10	8.0	.89
		40 psi [2.8 bar] demand switch, 1/2" MSP ports	50	3.4	1.59	6.0	1.04

## 166 Series Diaphragm Pumps

### AIR DRIVEN

#### Features

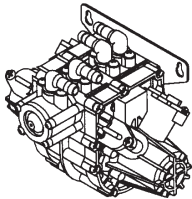
- 2 chamber dual diaphragm
- On demand operation
- 30 to 60 psi [2.1 - 4.1 bar]
- Positive displacement
- Chemical resistant polypropylene body



Shurflo's 166 Air Operated Demand Pumps employ a dual diaphragm design, with a patented fast action switching mechanism allowing for consistent flow and pressure. They are built for the toughest pumping applications and are available in a variety of elastomers that allow them to be compatible with most caustic or acidic fluids. Ideal for chemical transfer, liquid fertilizer injection and agricultural sprayers.

PART NO.	MODEL	DESCRIPTION	
70297	166-200-36	Viton Air Pump	2.0 gpm [7.6 lpm] open flow, Viton valves and diaphragm
70298	166-200-46	Buna Air Pump	2.0 gpm [7.6 lpm] open flow, Buna valves and diaphragm
70299	166-200-56	EPDM Air Pump	2.0 gpm [7.6 lpm] open flow, EPDM valves and diaphragm
70300	166-200-57	Santoprene Air Pump	2.0 gpm [7.6 lpm] open flow, Santo valves and diaphragm

## 94 Series Proportioning Pumps



The Brix Pump is a proportioning device which pumps two liquids (e.g. water and concentrate) in an exact ratio. The particular ratio is determined in the pump, and is thereby maintained precisely, independent of system flow or pressure changes, with no need to set or regularly readjust brix at the discharge point.

The pump operates on the source pressure of one of the proportioned liquids, typically incoming water, eliminating the need for CO<sub>2</sub> pressurized air or electric power.

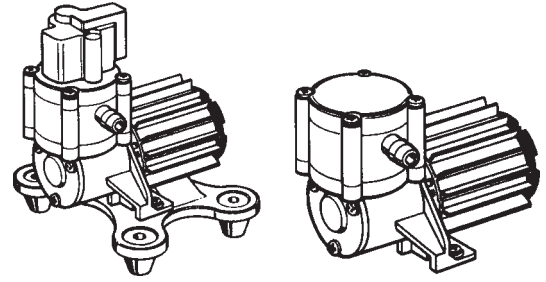
PART NO.	MODEL	DESCRIPTION	PSI	BAR	GPM	LPM
70302	94-260-21	Water Driven Proportioning Pump	20	1.4	1.15	4.3
		3:1 ratio, 3.0 gpm [11.4 lpm] open flow, EPDM seals and valves, Santoprene diaphragm, 50 psi [3.4 bar], 3/8" barb fittings	40	2.8	.97	3.7
70303	94-260-22	Water Driven Proportioning Pump	20	1.4	.89	3.4
		5:1 ratio, 3.2 gpm [12.1 lpm] open flow, EPDM seals and valves, Santoprene diaphragm, 50 psi [3.4 bar], 3/8" barb fittings	40	2.8	.76	2.9

**402 Series Midi-Fram Pumps 12 VDC**

**Features**

- Self-priming up to 4 feet [1.2 m]
- Can be run dry without damage
- Chemical resistant construction
- Available in 12 VDC

Shurflo's Model 402 Series is ideal for light duty applications requiring moderate pressure with flow rates up to 0.75 gpm(2.8 lpm) with low amp draw. Available with Santoprene or Viton valves and Santoprene diaphragm, the 402 Series can accommodate a wide range of chemicals typically found in agriculture.



**WITH BASEPLATE AND SWITCH      WITHOUT BASEPLATE OR SWITCH**

PART NO.	MODEL	DESCRIPTION	PSI	BAR	GPM	LPM	AMPS
70308	402-140-033	Standard Light Duty Transfer Pump .75 gpm [2.8 lpm], Viton valves, Santoprene diaphragm, Nylon, 30 psi [2.1 bar] switch, 3/8" barb ports, with Heat Sink	0	0.0	.75	2.8	1.6
			10	0.7	.60	2.3	2.5
			25	1.7	.50	1.9	2.7
70309	402-040-000	Light Duty Transfer Pump w/Santoprene Elastomers .50 gpm [1.9 lpm], Santoprene elastomers, Nylon, no switch, 3/8" barb ports, without Baseplate or Heat Sink.	0	0.0	.50	1.9	1.2
			10	0.7	.40	1.5	1.4
			25	1.7	.30	1.1	1.7

**SLV Series Demand Pump 12VDC**



SLV10-AA40 includes on/off switch

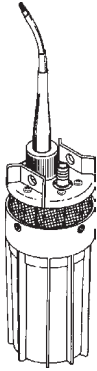
**Features**

- Automatic demand; 25 PSI (1.72 bar) on /40 PSI (2.76 bar) off
- Self priming up to 2.5 vertical feet (.76 m)
- Long life pressure switch
- Santoprene® diaphragm, Viton® valves
- Thermally protected ball bearing motor with splash proof housing
- Internal fan radiates heat; external heat sink not required
- Integral on/off switch optional

New from Shurflo, the SLV is an economy spot sprayer pump for low volume intermittent duty applications. Unique design has no metals in the fluid path for maximum chemical resistance. Big pump features include automatic demand operation and elastomers that handle a wide variety of chemicals. Perfect for low volume spraying and transfer. Cost effective yet with high performance and reliability; the SLV offers tremendous value.

PART NO.	MODEL	DESCRIPTION	PSI	BAR	GPM	LPM	AMPS
70270	SLV10-AA40	Automatic Demand Pump 1.0 GPM open flow, Viton® valves Santoprene® Diaphragm 40 PSI Demand Switch, 3/8" Barb Ports Integral on/off switch included	3	0.2	0.9	3.4	1.8
			10	0.7	0.73	2.8	2.1
			20	1.4	0.62	2.3	2.3
			30	2.1	0.49	1.9	2.5
70271	SLV10-AA41	Automatic Demand Pump 1.0 GPM open flow, Viton® valves Santoprene® Diaphragm 40 PSI Demand Switch, 3/8" Barb Ports	3	0.2	0.9	3.4	1.8
			10	0.7	0.73	2.8	2.1
			20	1.4	0.62	2.3	2.3
			30	2.1	0.49	1.9	2.5

**9300 Series Submersible Pump 24 VDC**



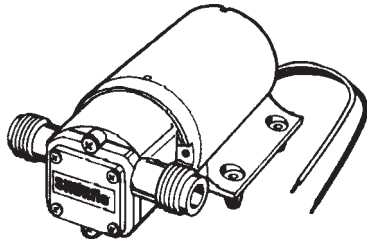
**Features**

- Accommodates for wells 4 inches [10.2 cm] in diameter and larger
- Accepts a variety of jacketed cables from your power source
- Runs dry without damage
- Corrosion-proof housing with stainless-steel fasteners
- Long-life, 24 VDC operation
- Quick Disconnect for easy installation and service

A solution to your remote water needs, Shurflo's 9300 Series Submersible Pump! It's rugged, durable and built to last. This pump delivers a steady 82 gph (310 lph) operating @ 100 psi [6.9 bar] maximum depth of 230 feet (70.1 m). It incorporates a unique waterblocked cable connector that is impervious to water leakage and condensation problems preventing waterwicking. Great for applications in livestock watering, irrigation, ponds, islands, remote homes and cabins.

PART NO.	MODEL	DESCRIPTION	VERT. LIFT		GPH	LPH	SOLAR ARRAY WATTS	CURRENTS AMPS
			FT	METER				
70301	9325-043-101	1.8 gpm [6.8lpm] open flow, EPDM valves, Santoprene diaphragm Net weight - 6 lbs.	20	6.1	117	443	58	1.5
			60	18.3	109	413	78	2.1
			100	30.5	103	390	99	2.6
			140	42.7	99	375	115	3.1
			180	54.9	93	352	135	3.6
			230	70.1	82	310	155	4.1

**3000 Series Flexible Impeller Pumps 12VDC**

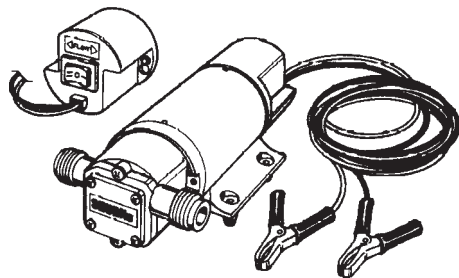


**STANDARD  
3000-050**

**Features**

- Self-priming to 7 1/2 feet [2.3 m] vertical
- Maximum head of 40 feet [12.2 m] (12 psi) [.83 bar]
- Liquid temps from 40°F to 185°F [4.4°C to 85°C]
- Thermal overload protection
- Stainless steel shaft
- BUNA-N impeller and lip seal
- Built-in reversible switch and 8 foot [2.4 m] cable with battery clips (3000-350 only)

A variety of uses for these pumps has been made possible by the use of a buna impeller for applications in pumping water to changing oil in cars, trucks, farm equipment and center point irrigation systems. Pumps incorporate thermal overload protection. The premium model includes a built-in 3 position switch to simplify flow reversal.

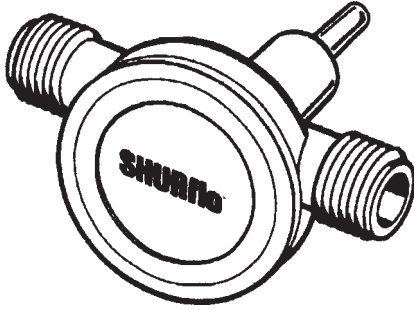


**PREMIUM  
3000-350**

*Not intended for use with flammable liquids, or in flammable environments.*

PART NO.	MODEL	DESCRIPTION	PSI	BAR	DISCHG. FT. OF HEAD	GPM	LPM	CURRENT (AMPS)
70311	3000-050	Standard	0	0.00	0.0	3.75	14.2	6.5
			5	0.34	11.5	3.40	12.9	7.1
			10	0.69	23.0	2.50	9.5	7.4
70312	3000-350	Premium	0	0.00	0.0	3.75	14.2	6.5
			5	0.34	11.5	3.40	12.9	7.1
			10	0.70	23.0	2.50	9.5	7.4

**Drill Pump**



**Features**

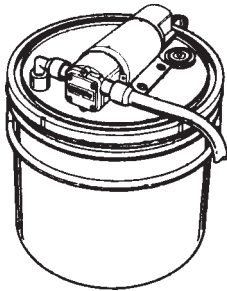
- Self-primers to 8 feet [2.4 m] vertical
- Pump liquids 40°F to 120°F [4.4°C to 48.8°C]
- BUNA impeller and seals
- 1/4" [6.35 mm] shaft fits standard drills

Attaches to any standard 1/4" [6.35 mm] drill motor. Ideal for pumping water from appliances, aquariums, water beds, sinks, toilets or drums. Includes a 1/4" [6.35 mm] oil probe that easily allows the transfer of oil from cars, trucks or lawn and farm engines and equipment.

*Not intended for use with flammable liquids, or in flammable environments.*

PART NO.	MODEL	PORTS	FLOW - OPEN	LPH
70313	3010-000	3/4" (M) GHT ports	200 gph	757

**Oil Change System**



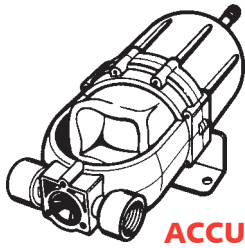
**Features**

- Complete with necessary tubing and oil storage container
- Built-in reversible switch and eight foot cable with battery clips
- Thermal overload protection
- BUNA-N impeller

Makes a messy job clean and easy. Simply install the oil probe in the engine oil dipstick tube, attach the battery clips, and flip a switch. Oil is safely removed and stored in the easy to carry container.

PART NO.	MODEL	PORTS
70314	3000-400	3/4" M garden hose, 3/8" NPT - female

## Accessories

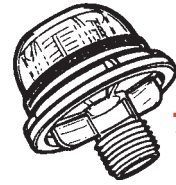
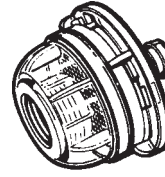


**ACCUMULATOR  
TANK**



73454

71866



71867

**TWIST-ON WATER STRAINER**

PART NO.	MODEL	DESCRIPTION
70283	181-101	Accumulator Tank 24 ounce total capacity (liquid and air), pre-pressurized to 20 psi [1.8 bar], (0 to 100 PSI [6.9 bar] range of adjustment), Santoprene bladder, mounting bracket, 1/2" (F) NPT ports
71866 71867	170-060-00 170-061-00	Twist-on Water Strainer 316 ss, 50 mesh screen, 1/2" [12 mm] Barb inlet, EPDM O-Ring. 316 ss, 50 mesh screen, 1/2" [12 mm] Pipe inlet, EPDM O-Ring Additional fitting p/n 73454 needed for use with 8000 series pumps with 3/8" NPT - female ports

### Twist-on In-line strainers

These twist-on strainers will protect the pumps filtering dirt and other foreign particles often found in tanks used in ag spraying. Mounts directly on pumphead using integral molded-in threads. Their transparent design makes it easy to see when it's time to clean out the strainer. A simple twist of the wrist opens the strainer - no tools required.

## Swivel Barbed Straight With Wingnut



PART NO.	MODEL	DESCRIPTION
71869	8-071-01	1/2" NPT - female x 3/8" barb*
71870	8-070-01	1/2" NPT - female x 1/2" barb*
71871	8-154-01	1/2" NPT - female x 5/8" barb
71872	8-156-01	1/2" NPT - female x 3/4" barb
71873	8-161-01	1/2" NPT - female x 1/2" barb
71874	8-162-01	1/2" NPT - female x 3/8" barb

\*Swivel only

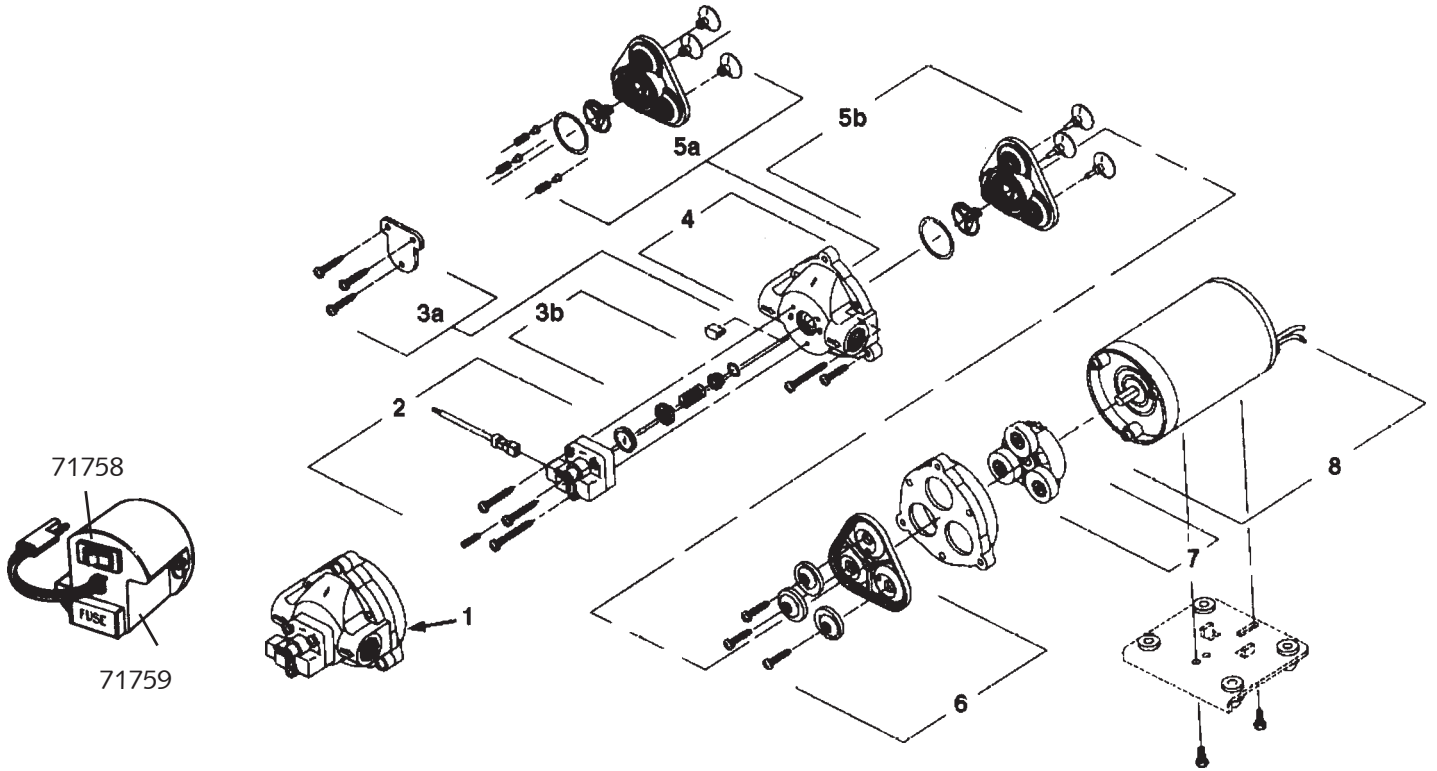
## Swivel Barbed Elbow With Wingnut



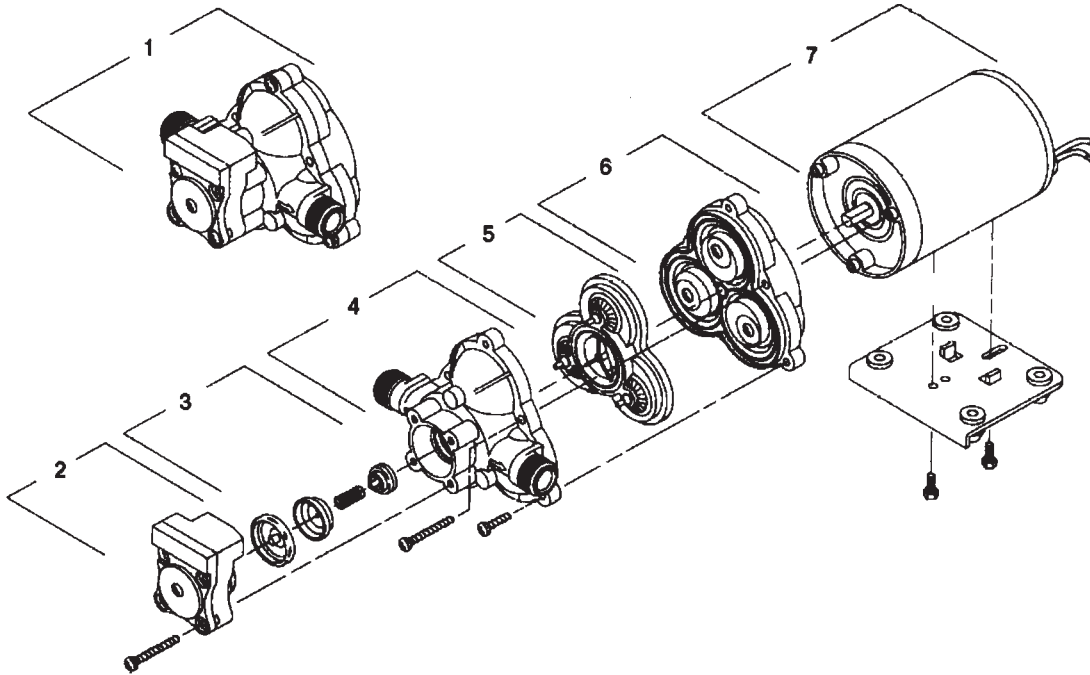
PART NO.	MODEL	DESCRIPTION
71875	8-034-01	1/2" NPT - female x 1/2" barb*
71876	8-065*	1/2" NPT - female x 1/2" NPT male*
71877	8-060-01	1/2" NPT - female x 3/8" barb*
71878	8-157-01	1/2" NPT - female x 3/4" barb
71879	8-155-01	1/2" NPT - female x 5/8" barb
71880	8-158-01	1/2" NPT - female x 1/2" barb
71881	8-159-01	1/2" NPT - female x 3/8" barb

\*Swivel only

**8000 Series Parts Kit List**



PUMP PART NO.	PUMP MODEL NO.	1 COMPLETE PUMP HEAD ASSEMBLY	2 SWITCH ASSEMBLY	3A 3B CHECK VALVE ASSEMBLY	4 UPPER HOUSING	5A 5B BY-PASS NON BY-PASS VALVE ASSEMBLY	6 DIAPHRAGM ASSEMBLY	7 DRIVE IMPELLER ASSEMBLY	8 MOTOR
70286	8000-033-236	94-380-05 71882	94-375-05 71760	94-374-10 71883	94-379-00 71761	94-390-05 71762	94-395-06 71764	94-385-04 71776	11-150-00 71884
70290	8000-343-236	94-380-05 71882	94-375-05 71760	94-374-10 71883	94-379-00 71761	94-390-05 71762	94-395-05 71885	94-385-04 71776	11-111-00 71766
70294	8000-533-236	94-380-02 71767	94-375-05 71760	94-374-10 71883	94-379-00 71761	94-390-05 71762	94-395-06 71764	94-385-03 71765	11-150-00 71884
70287	8000-541-236	N/A	94-375-06 71886	94-374-05 71779	94-379-00 71761	94-390-05 71762	94-395-06 71764	94-385-02 71925	11-148-04 71887
70280	8000-543-236	94-380-02 71767	94-375-06 71886	94-374-05 71779	94-379-00 71761	94-390-05 71762	94-395-06 71764	94-385-03 71765	11-111-00 71766
70289	8000-543-238	N/A	94-375-18 71888	94-374-05 71779	94-379-00 71761	94-390-05 71762	94-395-06 71764	94-385-03 71765	11-111-00 71766
70281	8000-543-250	94-382-09 71768	N/A	N/A	94-379-00 71761	94-391-09 71763	94-395-06 71764	94-385-03 71765	11-111-00 71766
70288	8007-543-236	94-380-02 71767	94-375-06 71886	94-374-05 71779	94-379-00 71761	94-390-05 71762	94-395-06 71764	94-385-03 71765	11-184-00 71889
70284	8007-543-850 used on all Westward Sprayers	N/A	N/A	N/A	94-379-00 71761	94-391-07 71777	94-395-06 71764	94-385-03 71765	11-168-01 71778
70305	8020-503-250	94-382-09 71768	N/A	N/A	94-379-00 71761	94-391-08 71890	94-395-06 71764	N/A	11-194-00 71891
70304	8020-513-236	94-380-02 71767	94-375-06 71886	N/A	94-379-00 71761	94-390-05 71762	94-395-06 71764	N/A	11-194-01 71892
70293	8020-833-238	94-380-28 71893	94-375-15 71894	N/A	94-379-01 71895	94-390-15 71896	94-395-16 71897	N/A	11-195-01 71898
70291	8030-813-239	N/A	94-375-15 71894	N/A	94-379-01 71895	94-390-15 71896	N/A	N/A	11-227-00 71899
70296	8030-863-239	N/A	94-375-15 71894	94-374-10 71883	94-379-01 71895	94-390-15 71896	N/A	N/A	11-223-00 71900
71758	Rocker switch only 10-360 fits Pump No. 70284								
71759	Complete electric pkg c/w rocker switch 84-712-00 fits Pump No. 70284								

**2088 Series Parts Kit List**


PUMP PART NO.	PUMP MODEL NO.	1 COMPLETE PUMP HEAD ASSEMBLY	2 SWITCH ASSEMBLY	3 CHECK VALVE ASSEMBLY	4 UPPER HOUSING	5 BY-PASS NON BY-PASS VALVE ASSEMBLY	6 DRIVE IMPELLER DIAPHRAGM ASSEMBLY	7 MOTOR
70292	2088-313-145	94-236-15 71769	94-230-55 71901	94-237-05 71773	94-231-30 71770	94-232-05 71774	94-238-03 71775	11-185-06 71902
70282	2088-343-135	94-231-05 71772	94-230-36 71771	94-237-05 71773	94-231-30 71770	94-232-05 71774	94-238-03 71775	11-111-00 71766
70310	2088-394-144	94-231-05 71772	94-230-36 71771	94-237-05 71773	94-231-30 71770	94-232-05 71774	94-238-03 71775	11-195-01 71898
70295	2088-394-154	94-231-05 71772	94-230-36 71771	94-237-05 71773	94-231-30 71770	94-232-05 71774	94-238-03 71775	11-150-10 71904
		94-231-05 71772	Upper housing with switch kit to fit pump numbers 70282, 70310 and 70295 (includes ref #2, 3 and 4)					



**Monarch Sump & Sewage Submersible Effluent Pumps**

**WS SERIES SUBMERSIBLE EFFLUENT PUMPS**

Automatic, Manual, and High Head Effluent Pumps.

Features.

1. **Construction** - Motor and pump housing is Cast Iron Class 30.
2. **Cord** - Power cord sealed at motor housing. WS50 and WS100 uses SJOW. WS30 uses SJTW.
3. **Impeller** - Cast Iron Class 30. Solids handling non-clog impeller. Two vanes on the WS50 and WS100. Three vanes on the WS30.
4. **Seal** - Mechanical carbon/ceramic type 6, 5/8 rotary.
5. **Shaft** - Motor shaft is 416 stainless steel.
6. **Motor** - Oil filled chamber with automatic overload protection, double ball bearing. Capacitor Start designed for hi-torque and are thermally protected with automatic reset (single phase only).
7. **Switch** - Mercury Free float switch for automatic on-off operation; piggyback style
8. **Discharge** - 2" NPT. Adaptor kit for 3" NPT available
9. **Fasteners** - Stainless steel fasteners throughout, for serviceability.



**SUBMERSIBLE EFFLUENT PUMPS - AUTOMATIC AND MANUAL**



MODEL NO	PART NO.	HP	VOLT	PH	SOLIDS HANDLING	SHIP WT. (LBS.)	SWITCH	CORD LENGTH
WS30M	620010	1/3	115V	1	11/16"	51	Manual	20'
WS30AM	620000	1/3	115V	1	11/16"	53	Automatic	20'

**HIGH HEAD SUBMERSIBLE EFFLUENT PUMPS - AUTOMATIC AND MANUAL**

WS50HM	620200	1/2	115V	1	3/4"	57	Manual	30'
WS50HM-20	620218	1/2	115V	1	3/4"	56	Manual	20'
WS50HAM	620212	1/2	115V	1	3/4"	59	Automatic	30'
WS50HAM-20	620219	1/2	115V	1	3/4"	58	Automatic	20'
WS50HM-12	620204	1/2	208/230V	1	3/4"	57	Manual	30'
WS50HM-12-20	620220	1/2	208/230V	1	3/4"	56	Manual	20'
WS50HAM-12	620217	1/2	208/230V	1	3/4"	59	Automatic	30'
WS50HAM-12-20	620221	1/2	208/230V	1	3/4"	58	Automatic	20'
WS100HM-12	620201	1	208/230V	1	3/4"	58	Manual	30'
WS100HM-12-20	620222	1	208/230V	1	3/4"	57	Manual	20'
WS100HAM-12	620213	1	208/230V	1	3/4"	60	Automatic	30'
WS100HAM-12-20	620223	1	208/230V	1	3/4"	59	Automatic	20'
WS100HM-32	620207	1	208/230V	3	3/4"	62	Manual	30'
WS100HM-34	620206	1	460V	3	3/4"	62	Manual	30'

Note: Manual models do not include float switch. Automatic models include float switch.

**PERFORMANCE CHARTS**

MODEL NO.	RPM	TOTAL HEAD IN FEET					SHUT-OFF HEAD (FT.)
		5	10	15	20	25	
WS30	1750	105	90	70	45	15	28



HIGH HEAD MODEL NO.	RPM	TOTAL HEAD IN FEET										SHUT-OFF HEAD (FT.)
		10	20	30	40	50	60	70	80	90		
WS50H	3450	115	98	78	57	30	0				60	
WS100H	3450	150	140	128	115	97	76	53	27	0	90	





**Monarch Sump & Sewage Sump Pumps**

**UP16M SERIES SUBMERSIBLE UTILITY PUMP**

**Features:**

**Motor** - 1/6 HP, 115 volt, thermal overload protected. 9 foot power cord. Stainless steel heat treated shaft. "Oil free" motor. Permanently lubricated lip seal. CSA approved.

**Pump Casing** - Corrosion resistant aluminum for superior heat dissipation. 3/4" NPT discharge.

**Impeller** - Constructed of durable glass reinforced thermoplastic.

**Garden Hose Adapter** - For convenient hook up.

**Bottom Suction Design** - Bottom suction design allows pumping to within 1/4" of the surface. Built in suction strainer to eliminate internal damage from possible debris. Removable filter screen for easy cleaning.



**SUBMERSIBLE UTILITY PUMP - 3/4" DISCHARGE**

MODEL NO	ORDER NO.	HP	SHIP WT. (LBS.)	DESCRIPTION
UP16M	620137	1/6	8	Submersible utility pump with garden hose adapter
44-33FR	616130	1/3	33	Cast Iron Pump end with S.S. Franklin Motor built-in Pressure diaphragms with 10 ft. vented power cord
44-50FR	616130	1/2	37	



**PERFORMANCE CHARTS**

MODEL NO	TOTAL HEAD IN FEET				SHUT-OFF HEAD (FT.)
	5	10	15	17	
CAPACITIES IN U.S. GPM					
UP16M	20	14	7	4	16



**UP16M SERIES SUBMERSIBLE UTILITY PUMP**

**Features:**

**Motor** - 1/4 HP, 115 volt, thermal overload protected. 9 foot power cord. Stainless steel heat treated shaft. "Oil free" motor. Permanently lubricated lip seal. CSA approved.

**Pump Casing** - Corrosion resistant aluminum for superior heat dissipation. 1 1/4" NPT discharge.

**Impeller** - Constructed of durable glass reinforced thermoplastic.

**Switch** - Automatic, mercury free, mechanical float switch.

**Bottom Suction Design** - Bottom suction design allows pumping to within 1/4" of the surface. Built in suction strainer to eliminate internal damage from possible debris. Removable filter screen for easy cleaning.



**SUBMERSIBLE UTILITY PUMP - 1 1/4" DISCHARGE**

MODEL NO	ORDER NO.	HP	SHIP WT. (LBS.)	DESCRIPTION
SP25A	620136	1/4	8.5	Submersible sump pump with automatic float switch.
SP33A	620135	1/3	10	Submersible sump pump with automatic float switch

**PERFORMANCE CHARTS**

MODEL NO	TOTAL HEAD IN FEET				SHUT-OFF HEAD (FT.)
	5	10	15	20	
CAPACITIES IN U.S. GPM					
SP25A	24	19	12	5	21



## Monarch Sump & Sewage Sump/Effluent Pumps

### ESP33 SERIES SUBMERSIBLE SUMP/EFFLUENT PUMP

#### Features:

**Construction** - Rugged cast iron motor housing dissipates heat away from motor. Rugged corrosion resistant, molded polypropylene pump body.

**Motor** - 1/3 HP, 115 volt with stainless steel shaft, in oil filled chamber with thermal overload protection. CSA approved.

**Impeller** - 5 vane reinforced polypropylene, handles 1/2" spherical solids.

**Seal** - Mechanical type in oil filled chamber with ceramic and carbon faces.

**Switch** - Separate float switch, removable for manual operation.

**Discharge** - 1 1/2" NPT. Reducer bushing for 1 1/4" discharge included.



### SUMP/EFFLUENT PUMPS – SUBMERSIBLE TYPE - 1 1/2" - 1 1/4" DISCHARGE

MODEL NO	ORDER NO.	HP	SHIP WT. (LBS.)	DESCRIPTION
ESP33AM	620088	1/3	19	Automatic, with separate float switch and 10 ft. cord
ESP33M	620089	1/3	17	Manual, with 10 ft. power cord



#### PERFORMANCE CHARTS

MODEL NO	TOTAL HEAD IN FEET				SHUT-OFF HEAD (FT.)
	5	10	15	20	
CAPACITIES IN U.S. GPM					
ESP33	44	33	13	0	17.5



### SP33A SERIES SUBMERSIBLE SUMP PUMP

#### Features:

**Motor** - 1/3 HP, 115 volt, thermal overload protected, CSA approved. "Oil free" motor. Stainless steel motor housing improves heat dissipation for longer motor life. Complete with a 9 foot power cord. Stainless steel heat treated shaft. Permanently lubricated lip seal.

**Pump Casing** - Fully constructed of durable reinforced thermoplastic for excellent corrosion resistance. 1 1/4" NPT discharge for ease of installation.

**Impeller** - Non clogging design constructed of durable reinforced thermoplastic.

**Switch** - Automatic, mercury free, mechanical float switch.

**Bottom Suction Design** - Built in suction strainer to eliminate internal damage from possible debris. Removable filter screen for easy cleaning.



### SUBMERSIBLE SUMP PUMP - 1 1/4" DISCHARGE

MODEL NO	ORDER NO.	HP	SHIP WT. (LBS.)	DESCRIPTION
SP33A	620135	1/3	10	Submersible sump pump with automatic float switch

#### PERFORMANCE CHARTS

MODEL NO	TOTAL HEAD IN FEET				SHUT-OFF HEAD (FT.)
	5	10	15	20	
CAPACITIES IN U.S. GPM					
SP33A	30	23	16	5	23



**Monarch Sump & Sewage Submersible Sewage Pumps**

**WS SERIES SUBMERSIBLE SEWAGE PUMPS - VORTEX**

**Features:**

**Construction** - Motor and pump housing is Cast Iron.

**Cord** - 20 foot power cord sealed at motor housing.

**Impeller** - A high capacity vortex impeller, designed for superior solids handling capabilities. This impeller is able to pass 2" solids by creating a vortex. Solids do not come into contact with the impeller. This provides superior clog free operation.

**Motor** - Powerful CSA approved 115 volt, capacitor start motor. The durable cast iron motor housing dissipates heat away from the motor providing longer life. With thermal overload protection and double ball bearings for reliability.

**Switch** - Mercury Free Float switch for automatic on-off operation.

**Discharge** - 2" NPT.

**Fasteners** - 304 Stainless steel fasteners throughout, for serviceability.



**SUBMERSIBLE SEWAGE PUMPS - AUTOMATIC AND MANUAL**

MODEL NO	PART NO.	HP	VOLT	PH	SOLIDS HANDLING	SHIP WT. (LBS.)	SWITCH	CORD LENGTH
WSV52M	620202	1/2	115V	1	2"	54	Manual	20'
WSV52A	620205	1/2	115V	1	2"	56	Automatic	20'

**PERFORMANCE CHARTS**

MODEL NO	TOTAL HEAD IN FEET				SHUT-OFF HEAD (FT.)
	5	10	15	20	
CAPACITIES IN U.S. GPM					
WSV52	112	80	40	0	18

**General Pump Accessories**

PHOTO	PART NO.	MODEL	DESCRIPTION
<b>W-TYPE AUTOMATIC PRESSURE REGULATOR</b>			
A	78835	W1	0 to 1600 PSI W-Type Automatic pressure regulator with built-in chemical injector and by-pass tube • Sized for direct mount on to most general pumps • Saves space and plumbing • Maximum pressure can be pre-set
<b>SBH SERIES WET SANDBLASTING ATTACHMENT HEAD</b>			
B	78865	SBH1	Water flow draws sand into spray. Uses dry, sifted, quartz or silica sand
<b>WATER SUCTION KIT</b>			
C	78866	WW20-152	Make yourself completely mobile with the WW20-152. Draw water from a pond, creek, lake or even drums of water. Comes complete with garden hose fitting, 25' H.D. 3/4 hose, suction strainer and check valve.



**PHOTO A**

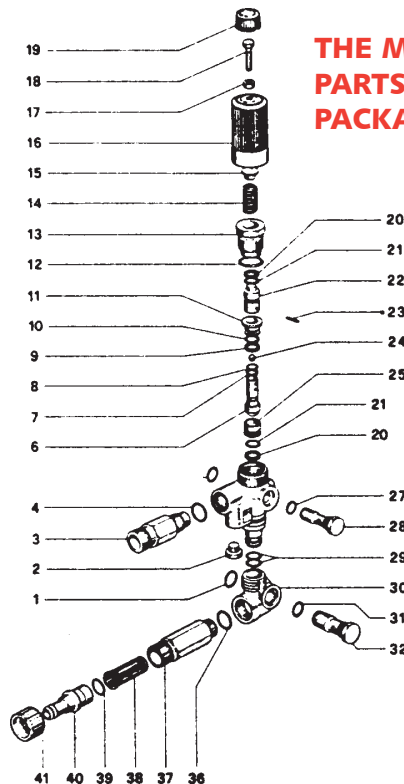
REF.	PART NO.	REPLACES	DESCRIPTION
1	78836	90.3839.00	O-Ring
3	78837	10007870	Nipple
4	78838	90.3832.00	O-Ring kit 94
6	78839	36.3167.66	Valve kit 98
7	78839	90.5025.00	O-Ring kit 98
8	78839	90.3575.00	O-Ring kit 98
9	78839	90.5075.00	O-Ring kit 98
10	78839	90.3589.00	O-Ring kit 98
11	78839	36.3165.70	Valve guide kit 98
12	78839	90.3847.00	O-Ring kit 98
13	78839	36.3166.70	Bushing kit 98
14	78840	94.7436.00	Spring
15	78841	36.3169.70	Spring plate
16	78842	36.3171.02	Knob
17	78843	92.2200.00	Nut
18	78844	99.3052.00	Bolt
19	78845	36.3172.51	Cap
20	78839	90.5065.00	O-Ring kit 98
21	78839	90.3822.00	O-Ring kit 98 or 94
22	78839	36.3168.66	Piston kit 98
23	78839	97.6132.00	Pin kit 98
24	78839	97.4800.00	Ball kit 98
25	78839	36.3164.66	Valve seat kit 98
27	78847	90.3820.00	O-Ring
28	78848	36.2567.70	Bolt
29	78849	90.3825.00	O-Ring
30	78850	36.3152.22	Body
31	78851	90.3827.00	O-Ring
32	78852	36.2568.70	Bolt
36	78853	90.3591.00	O-Ring
37	78854	36.2560.70	Nipple
38	78855	92.8925.00	Filter
39	78856	90.3828.00	O-Ring
40	78857	36.2569.70	Hose barb
41	78858	10.0119.02	Ring nut
46	78859	10015766	Nozzle
47	78838	90.3582.00	O-Ring kit 94
48	78838	94.8217.00	Spring kit 94
49	78838	97.4782.00	Ball kit 94
50	78838	90.3572.00	O-Ring kit 94
51	78838	90.3585.00	O-Ring kit 94
52	78860	36.2563.70	Valve seat
53	78861	36.2562.51	Body
54	78838	94.7383.00	Spring kit 94
55	78838	90.3580.00	O-Ring kit 94
56	78862	36.2564.70	Valve
57	78863	36.2565.51	Knob
58	78838	90.3570.00	O-Ring kit 94
59	78864	36.2566.70	Hose barb



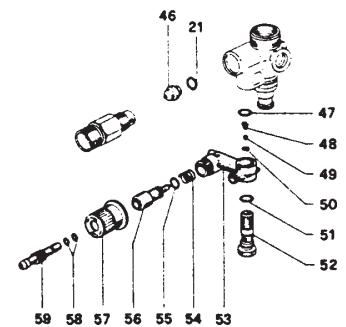
**PHOTO B**



**PHOTO C**



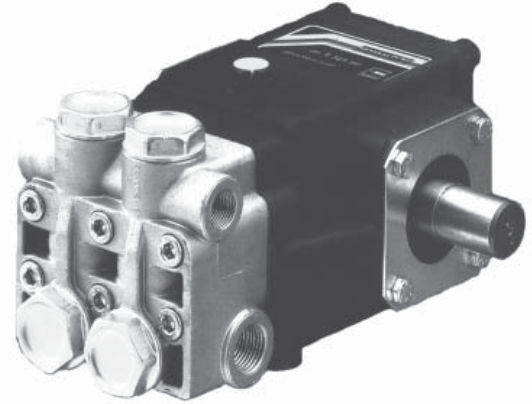
**THE MOST COMMON SPARE PARTS ARE SOLD IN KIT PACKAGING**



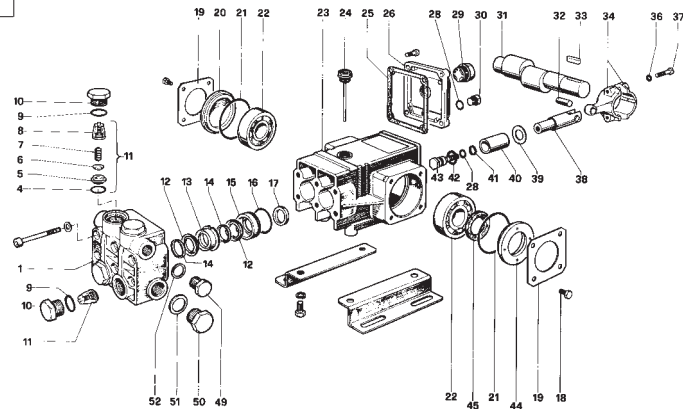
**General Pump & Interpump**

**T9721, T9731, T9791, W972, W973 & W979**

PART NO.	70180	70181	70182
Model No.	T9721	T9731	T9791
GPM	2.1	2.85	2.5
PSI	1000	1000	1100
RPM	1750	1750	1750
HP	1.5	2.0	2.0
Max. inlet pressure (PSI)	125	125	125
Max. suction lift (ft.hg)	10/8.8	10/8.8	10/8.8
Piston bore (mm)	20	22	20
Piston stroke (mm)	7.8	10.5	9.5
Crankcase capacity (L)	0.3	0.3	0.3
Inlet Port (in.)	1/2	1/2	1/2
Outlet Port (in.)	3/8	3/8	3/8
Shaft diameter (mm)	24	24	24
Weight (lbs.)	11	11	11



REF.	PART NO.	REPLACES	DESCRIPTION
1	78162	49.1200.41	Head
4	70965	90.3841.00	O-Ring kit 1
5	70965	36.2003.66	Valve seal kit 1
6	70965	36.2007.76	Air valve kit 1
7	70965	94.7376.00	Spring kit 1
8	70965	36.2002.51	Valve guide kit 1
9	78164	90.3847.00	O-Ring kit 4
10	78164	98.2220.00	Cap kit 4
11	70965	36.7032.01	Valve unit kit 1
12	78165	90.2703.00	Packing kit 27
13	78165	50.2166.70	Ring kit 27
14	78165	50.1000.51	Head ring kit 27
15	78165	50.0805.70	Packing retainer kit 27
16	78165	90.3612.00	O-Ring kit 27
17	78166	90.1614.00	Ring kit 23
19	78167	50.1500.74	Cover
20	78168	50.2116.51	Spacer
21	78169	90.4097.00	O-Ring
22	78170	91.8329.00	Bearing T9791, W979
22	78170	91.8328.00	Bearing T9721, T9731, W972, W973
23	78172	49.0100.22	Crankcase (W)
23	78173	49.0104.22	Crankcase (T)
24	78174	98.2103.00	Dip stick
25	78175	49.2119.84	Gasket
26	78176	49.1600.22	Crankcase cover (W)
26	78177	49.1603.22	Crankcase cover (T)
28	78178	90.3585.00	O-Ring kit 6
29	78179	97.5968.00	Oil level indicator
30	78180	98.2041.00	Cap
31	78181	49.0204.35	Crankshaft T9791, W979
31	78182	49.0220.35	Crankshaft T9721, W972
31	78183	49.0217.35	Crankshaft T9731, W973



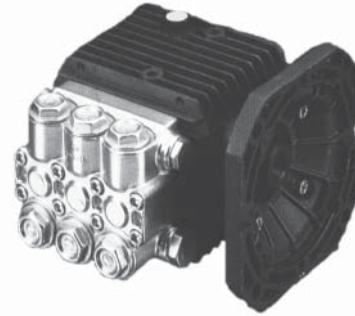
REF	PART NO.	REPLACES	DESCRIPTION
32	78184	97.7330.00	Piston ring
33	78185	91.4878.00	Key
34	78186	50.0300.01	Connecting rod
36	78187	96.6939.00	Washer
37	78188	99.1927.00	Bolt
38	78189	50.0500.56	Piston guide
39	78178	96.7286.00	Washer kit 6
40	78190	50.0404.09	Piston
41	78178	90.5067.00	Anti extrusion ring kit 6
42	78178	96.7280.00	Washer kit 6
43	78178	47.2195.66	Piston bolt kit 6
44	78191	50.2115.51	Spacer
45	78192	90.1634.00	Ring seal
49	78193	98.2100.00	Cap
50	78194	98.2176.00	Cap
51	78195	96.7514.00	Washer
52	78196	96.7380.00	Washer

**THE MOST COMMON SPARE PARTS ARE SOLD ONLY IN KIT PACKAGING**

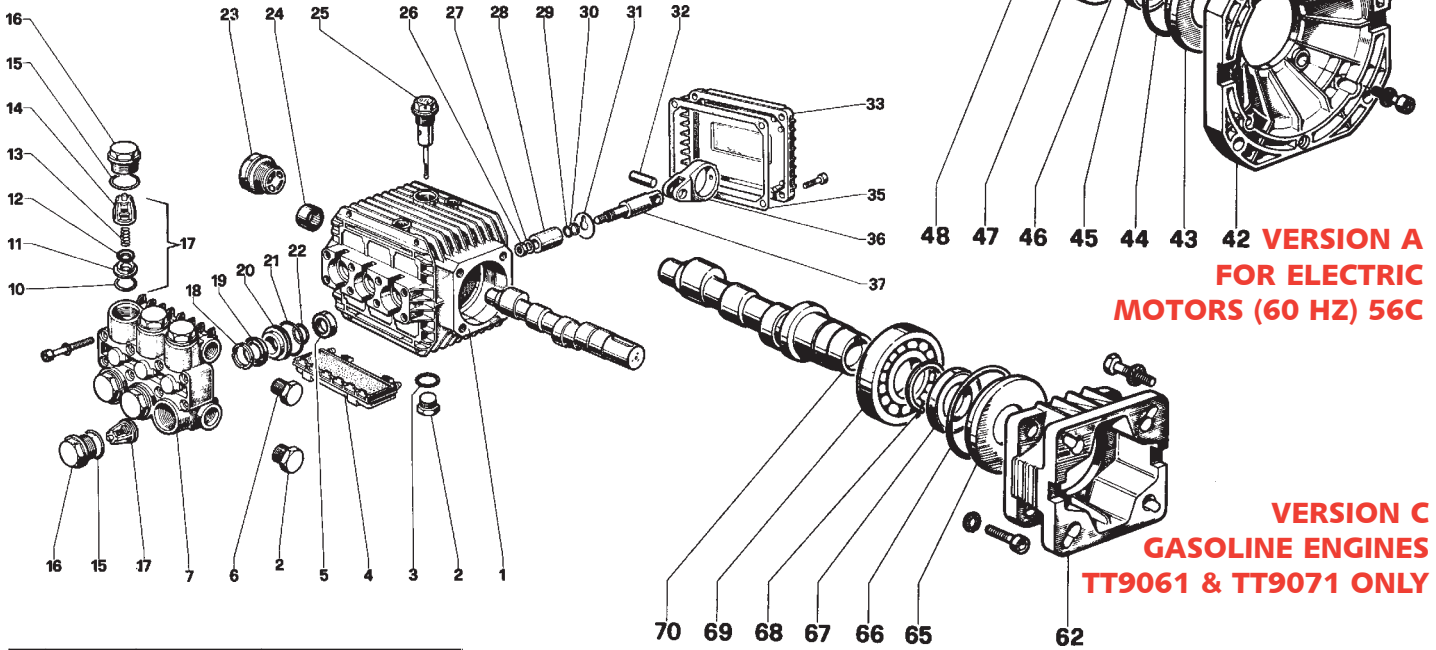
**General Pump & Interpump**

**T9051, TT9061, TT9071, W905, WW906 & WW907**

PART NO.	70183	70184	70185
Model	T9051	TT9061	TT9071
GPM	2.11	2.11	2.8
PSI	1015	1015	1500
RPM	1750	3400	3400
HP	1.5	1.5	3
Max. inlet pressure (PSI)	125	125	125
Max. suction lift (ft/hg)	10/8.8	10/8.8	10/8.8
Piston bore (mm)	15	15	15
Piston stroke (mm)	9.4	5	6.6
Crankcase capacity (l)	0.33	0.33	0.33
Inlet port (in.)	3/8	3/8	3/8
Outlet port (in.)	1/4	1/4	1/4
Shaft diameter	5/8 hollow	5/8 hollow	3/4 hollow



**MOTOR FLANGE NOT SUPPLIED WITH PUMP**



**VERSION A FOR ELECTRIC MOTORS (60 HZ) 56C**

**VERSION C GASOLINE ENGINES TT9061 & TT9071 ONLY**

REF.	PART NO.	REPLACES	DESCRIPTION
1	78197	51.0106.22	Crankcase
2	78193	98.2100.00	Cap
4	78199	51.2091.02	Side cover
5	78800	90.1565.00	Ring kit 83
6	78180	98.2041.00	Cap
7	78801	51.1200.41	Head
10	70965	90.3841.00	O-ring kit 1
11	70965	36.2003.66	Valve seat kit 1
12	70965	36.2001.76	Air valve kit 1
13	70965	94.7376.00	Spring kit 1
14	70965	36.2002.51	Valve guide kit 1
15	78802	90.3847.00	O-Ring kit 84
16	78802	98.2218.00	Cap kit 84
17	70965	36.7032.01	Valve unit kit 1
18	78803	51.1000.51	Head ring kit 96
19	78803	90.2620.00	Packing kit 96

REF.	PART NO.	REPLACES	DESCRIPTION
20	78803	51.0800.70	Rocking ret.kit 96
21	78803	90.3604.00	O-Ring kit 96
22	78803	90.3835.00	O-Ring kit 96
23	78179	97.5968.00	Oil level indicator
24	78804	91.8014.00	Bushing
25	78174	98.2103.00	Dipstick
26	78805	92.2216.00	Nut
27	78806	96.7008.00	Washer
28	78807	51.0400.09	Piston
29	78808	90.3572.00	O-Ring
30	78809	90.5022.00	Unit extrusion ring
31	78810	96.7070.00	Washer
32	78811	97.7310.00	Piston pin
33	78812	51.1600.22	Crankcase cover
35	78813	51.2101.84	Gasket
36	78814	51.0300.22	Connecting rod
37	78815	51.0500.56	Piston guide

REF.	PART NO.	REPLACES	DESCRIPTION
42	78817	10034422	C flange
43	78191	50211551	Spacer
44	78169	90409700	O-Ring
45	78818	90164400	Ring seal
46	78819	90066700	Cir clip
47	78816	91837300	Bearing
48	78820	51020835	Crankshaft TT9061
48	78821	51020935	Crankshaft TT9071
48	78822	51021535	Crankshaft T9051
62	78823	10.0346.22	Motor flange
65	78191	50.2115.51	Spacer
66	78169	90.4097.00	O-Ring
67	78818	90.1644.00	Ring seal
68	78819	90.0667.00	Cir clip
69	78816	91.8373.00	Bearing
70	78824	51.0210.35	Crankshaft
70	78825	51.0211.35	Crankshaft

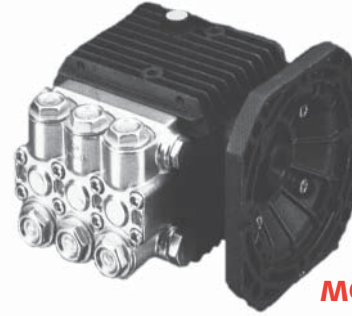
**THE MOST COMMON SPARE PARTS ARE SOLD ONLY IN KIT PACKAGING**



**General Pump & Interpump**

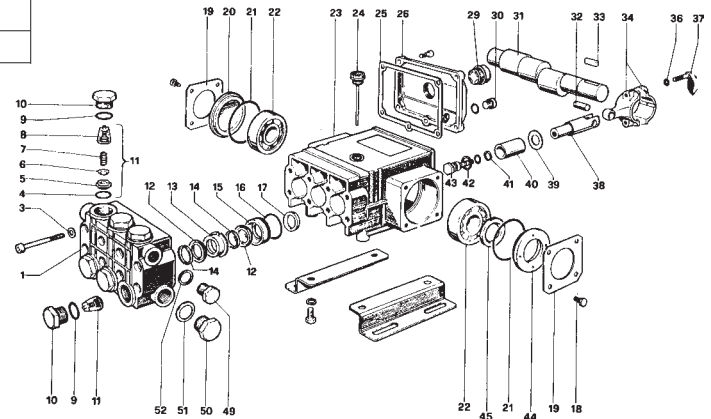
**T9951, T9961, T9971, T701, T711 & T911**

PART NO.	70186	70187	70188
Model	T9951	T9961	T9971
GPM	3.5	4.0	4.0
PSI	1300	1100	2000
RPM	1750	1750	1750
HP	3.0	3.0	5.5
Max. inlet pressure (psi)	125	125	125
Max. suction lift (ft/hg)	10/8.8	10/8.8	10/8.8
Piston bore (mm)	20	20	20
Piston stroke (mm)	8.5	10	10
Crankcase capacity (l)	0.45	0.45	0.45
Inlet port (in.)	1/2	1/2	1/2
Outlet port (in.)	3/8	3/8	3/8
Shaft diameter (mm)	24	24	24
Weight (lbs.)	18.7	18.7	18.7



**MOTOR FLANGE  
NOT SUPPLIED  
WITH PUMP**

REF.	PART NO.	REPLACES	DESCRIPTION
1	78826	50.1207.41	Head
4	70965	90.3841.00	O-Ring kit 1
5	70965	36.2003.66	Valve seal kit 1
6	70965	36.2001.76	Air valve kit 1
7	70965	94.7376.00	Spring kit 1
8	70965	36.2002.51	Valve guide kit 1
9	78164	90.3847.00	O-Ring kit 4
10	78164	98.2220.00	Cap kit 4
11	70965	36.7032.01	Valve unit kit 1
12	78165	90.2703.00	Packing kit 27
13	78165	50.2166.70	Ring kit 27
14	78165	50.1000.51	Head ring kit 27
15	78165	50.0805.70	Packing retainer kit 27
16	78165	90.3612.00	O-Ring kit 27
17	78166	90.1614.00	Ring kit 23
19	78167	50.1500.74	Crankcase cover
20	78168	50.2116.51	Spacer
21	78169	90.4097.00	O-Ring
22	78170	91.8329.00	Bearing
23	78827	50.0104.22	Crankcase
24	78174	98.2103.00	Dipstick
25	78828	50.2119.84	Gasket
26	78829	50.1603.22	Crankcase cover
28	78178	97.5968.00	O-Ring kit 6
29	78179	97.5968.00	Oil level indicator
30	78180	98.2041.00	Cap
31	78830	50.0218.35	Crankshaft T711-T911-T9961-T9971
31	78831	50.0219.35	Crankshaft T701-T9951
32	78184	97.7330.00	Piston ring
33	78832	91.4890.00	Key
34	78186	50.0300.01	Connecting rod - T701-T711-T9961-T9951



REF	PART NO.	REPLACES	DESCRIPTION
36	78187	96.6939.00	Washer
37	78188	99.1927.00	Bolt
38	78834	50.0501.56	Piston guide
39	78178	96.7286.00	Washer kit 6
40	78190	50.0404.09	Piston
41	78178	90.5067.00	Unit extrusion ring kit 6
42	78178	96.7280.00	Washer kit 6
43	78178	47.2195.66	Piston bolt kit 6
44	78191	50.2115.51	Spacer
45	78192	90.1634.00	Ring seal
49	78193	98.2100.00	Cap
50	78194	98.2176.00	Cap
51	78195	96.7514.00	Washer
52	78196	96.7380.00	Washer

**THE MOST COMMON SPARE PARTS ARE SOLD ONLY IN KIT PACKAGING**

## Westward Pressure Washer Pumps and Parts

### TO FIT WSS2005E PUMP ASSEMBLY PUMP ONLY

#### Specifications:

- 2.7 GPM
- 5 HP
- 3400 RPM
- 2000 PSI
- 3/4" Hollow Shaft

PART NO.
SPP 70189
SPP 70190

#### PUMP REPAIR KITS

PART NO.	DESCRIPTION
SPP 70960	Seal Kit
SPP 70961	Valve Kit

### AXD3020G

Axial radial pump, direct mount. Built-in unloader & soaper. Fits most gas engines with 3/4" round shaft: Briggs & Stratton, Honda, Kawasaki, Kohler, Kubota, & Yamaha



### TO FIT WSSE1015 AND WSSE1520 PUMP ASSEMBLY PUMP ONLY

#### Specifications:

- 2.0 GPM
- 1.5 HP
- 3400 RPM
- 2000 PSI
- 5/8" Hollow Shaft

PART NO.
SPP 70191
SPP 70192

#### PUMP REPAIR KITS

PART NO.	DESCRIPTION
SPP 70960	Seal Kit
SPP 70961	Valve Kit

### AXD2020E

Axial radial pump, direct mount. Built-in unloader & soaper. Fits most electric motors with 5/8" round shaft: Baldor



### TO FIT WSS2055 PUMP ASSEMBLY PUMP ONLY

#### Specifications:

- 3.0 GPM
- 5.5 HP
- 3400 RPM
- 2000 PSI
- 3/4" Hollow Shaft

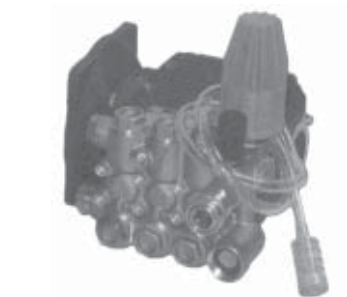
PART NO.
SPP 70193
SPP 70194

#### PUMP REPAIR KITS

PART NO.	DESCRIPTION
SPP 70962	Seal Kit
SPP 70965	Valve Kit

### LWDK3020G

Triplex ceramic plunger pump, direct mount, built-in unloader and soaper. Fits most gas engines with 3/4" round shaft: Briggs & Stratton, Honda, Kawasaki, Kohler, Kubota, & Yamaha



### SEE SECTION 7 FOR MORE INFORMATION



### PUMP OIL

- Non-detergent, non foaming
- Specially formulated and rated for superior rust protection and oxidation protection
- Ideal for axial radial pumps
- Universal Transmission Fluid Heavy (UTFH)

PART NO.	DESCRIPTION
74225	1 litre (UTFH)

**Westward Pressure Washer Pumps and Parts**

**TO FIT WSS3011  
PUMP ASSEMBLY  
PUMP ONLY**

PART NO.
SPP 70195
SPP 70196

**Specifications:**

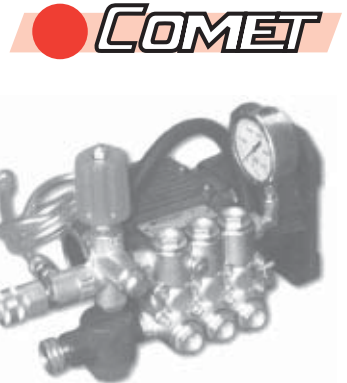
- 4.0 GPM
- 11 HP
- 3400 RPM
- 3000 PSI
- 1" Hollow Shaft

**PUMP REPAIR KITS**

PART NO.	DESCRIPTION
SPP 70964	Seal Kit
SPP 70965	Valve Kit

**ZWD4030G**

Triples ceramic plunger pump, direct mount. Fits most gas engines with 1" round shaft: Briggs & Stratton, Honda, Kawasaki, Kohler, Kubota, & Yamaha



**O-RINGS FOR  
FEMALE COUPLERS**

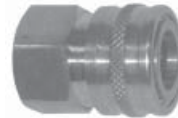


1/4" NPT	SPP 74228
3/8" NPT	SPP 74229
1/2" NPT	SPP 74232

**FEMALE COUPLER X FEMALE SOCKET  
MPT**



SPP 74226
SPP 74227
SPP 74591



SPP 78118
SPP 78119
SPP 78120

**FEMALE PLUG**



SPP 78121
SPP 78122
SPP 78123

**MALE PLUG**



SPP 78124
SPP 78125
SPP 78126

**COMPONENTS FOR ALL WESTWARD PRESSURE WASHERS**

PART NO.	DESCRIPTION
73645	Filter screen washer (2005E, E1015, E1520, 2055)
70967	Water inlet filter (3011)
70968	Soap hose assy
78088	Soap suction filter
70969	Garden hose adapter assy
70970	1/2" thermal valve (2055)
70971	E-Z start unloader valve (3011)
70972	Repair kit for 70971
70973	Seal kit for 70971
70974	By pass hose (3011)
75027	5000 PSI gauge (3011)
78083	Handgun (3011)
78127	Repair kit for 78083 Handgun
78105	Handgun (all units except 3011)
78129	Repair Kit for 78105 Handgun
78078	18" lance w/molded grip
78079	24" lance w/molded grip
78080	36" lance w/molded grip (all units)
78081	48" lance w/molded grip
70975	Red tip (2005E, E1015, E1520, 2055) 0°
70976	Yellow tip (2005E, E1015, E1520, 2055) 15°
70977	White tip (2005E, E1015, E1520, 2055) 40°
70978	Black Soaper nozzle (all units)
70979	Red tip (3011) 0°
70980	Yellow tip (3011) 15°
70981	White Tip (3011) 40°
70982	30' high pressure hose with couplers (2055E, E1015, E1520, 2055)
70983	50' high pressure hose with couplers (3011)



**FOR MORE INFORMATION  
SEE SECTION 7**



## Centrifugal Water Pumps

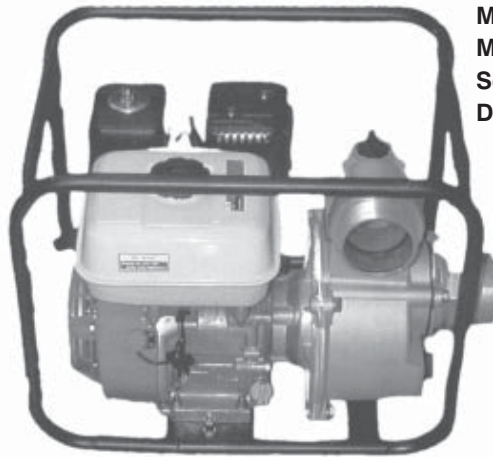
### 2" AND 3" HONDA POWERED WATER PUMPS

General purpose centrifugal water pumps constructed from aluminum for performance reliability, durability, and lightweight portability. These pumps are economical and ideal for drainage and most general purpose water pumping applications including effluent.

#### PART NO. WSS2040

##### 2" GENERAL PURPOSE PUMP

**Engine:** 4 HP Honda "Oil Alert"  
**Pump:** Centrifugal Aluminum  
**Impeller:** Cast Iron  
**Inlet/Outlet:** 50 mm (2")  
**Max Flow:** 580 L/min, 150 Gal/min  
**Max Head:** 85 feet  
**Solids:** No  
**Dry Weight:** 21 kg (46 lbs.)



**PARTS BREAKDOWN SEE SECTION 9**

#### PART NO. WSS2050

##### 2" GENERAL PURPOSE PUMP

**Engine:** 5 HP Honda GC  
**Pump:** Centrifugal Aluminum  
**Impeller:** Cast Iron  
**Inlet/Outlet:** 50 mm (2")  
**Max Flow:** 580 L/min, 150 Gal/min  
**Max Head:** 85 feet  
**Solids:** No  
**Dry Weight:** 21 kg (46 lbs.)

#### PART NO. WSS3050

##### 3" GENERAL PURPOSE PUMP

**Engine:** 5.5 HP Honda "Oil Alert"  
**Pump:** Centrifugal Aluminum  
**Impeller:** Cast Iron  
**Inlet/Outlet:** 80 mm (3")  
**Max Flow:** 980 L/min, 255 Gal/min  
**Max Head:** 95 feet  
**Solids:** No  
**Dry Weight:** 27 kg (59 lbs.)



**PARTS BREAKDOWN SEE SECTION 9**

#### PART NO. WSST3080

##### 3" TRASH PUMP

**Engine:** 8 HP Honda GX Oil Alert  
**Impeller:** Cast Iron  
**Inlet/Outlet:** 80 mm (3")  
**Max Flow:** 1100 L/min, 300 Gal/min  
**Max Head:** 100 feet  
**Max Lift:** 25 feet  
**Solids:** 1"  
**Dry Weight:** 59 kg (130 lbs.)

**Water Pump Accessories**

**STANDARD BRONZE FOOT VALVE WITH PERFORATED BRASS STRAINER**

PART NO	REPLACES	PIPE SIZE	MIN. WELL DIA.
78696	627610	3/4"	1 1/4"
78697	627620	1"	2"
78698	627630	1 1/4"	2 1/2"
78699	627640	1 1/2"	3"
78700	6927650	2"	3 1/2"
76145	FU-300	3"	3 1/2"
76146	FU-400	4"	4 1/2"



**CYCOLAC FOOT VALVE WITH STRAINER (ABS PLASTIC)**

PART NO	REPLACES	PIPE SIZE	MIN. WELL DIA.
78701	626860	1"	2"
78702	626870	1 1/4"	2 1/2"
78703	626871	1 1/2"	2 1/2"



**PLASTIC SUCTION STRAINER**

PART NO	REPLACES	PIPE SIZE	SHIP WT. (LBS)
78704	627815	1 1/2"	1/3
78705	627825	2"	1/3
74994	70002800	3"	3/4"



**HD BRONZE FOOT VALVE WITH PERFORATED STAINLESS STEEL STRAINER**

PART NO	REPLACES	PIPE SIZE	SHIP WT. (LBS)
78706	627530	2 1/2"	5
78707	627540	3"	5



**ALL BRONZE CHECK VALVES**

PART NO	REPLACES	PIPE SIZE	SHIP WT. (LBS)
78708	627710	1/2"	1 1/4
78709	627720	3/4"	1 1/4
78710	627730	1"	2
78711	627740	1 1/4"	2 1/2
78712	627750	1 1/2"	3
78713	627760	2"	3 1/2
76147	CU-300	3"	3 1/2
76148	CU-400	4"	4 1/2



**CAST IRON SUCTION STRAINERS-STR SERIES**

PART NO	MODEL NO.	REPLACES	PIPE SIZE	DESCRIPTION
78714	STR-1 1/4	409390	1 1/4"	Rugged construction, painted, with standard pipe thread. An ideal choice for the protection of your pump,
78715	STR-1 1/2	409340	1 1/2"	
78716	STR-2	409350	2"	
78717	STR-3	409360	3"	Designed with a maximum "open" area for continuous flow.
78718	STR-4	409370	4"	







**NYLON FOOT STRAINERS**



The Slimline plastic foot strainer is used for suction on: 1 1/4", 1 1/2", or 2" hose. This strainer includes a check valve type shut off to prevent pump prime loss by holding water in hose when pump is shut off.

PART NO.	REPLACES	DESCRIPTION
77020	08ART17B	1 1/4" foot strainer
77021	08ART17C	1 1/2" foot strainer
77022	08ART17D	2" foot strainer

## Delavan Pump Couplers

PART NO.	PUMP COUPLERS	REPLACES	PUMP AND TRACTOR PTO COUPLER MATCH	WEIGHT	DESCRIPTION
70400		46814-1	For 6 - roller pump with 5/8" pump shaft, 1 3/8" 540 & 1000 rpm PTO	2.1 lbs.	Fits either 540 or 1000 rpm 1 3/8" shafts Allows quick and simple slip-on, slip off installation of a pump to a tractor PTO shaft. Just pull collar back and slide on or slide off. Coupler is clamped to pump shaft with allen head socket screws. Corrosion resistant cast aluminum; collar is Super Tough Nylon
70401		46814-2	For old-style and competitive pumps with 7/8" shaft, 1 3/8" 540 & 1000 PTO	2.1 lbs.	
70402	Dual Speed 540 & 1000 RPM PTO Quick Couplers	46814-3	For 7-* & 8-roller pumps with 15/16" shafts, 1 3/8" 540 & 1000 PTO	2.1 lbs.	
70412		46819	Replacement 1/4" socket head setscrew for 70400, 70401, 70402		
70405		35735	For 5-, 7-* & 8-Roller pumps with 15/16" shafts, 1 3/8" 540 RPM PTO	2.3 lbs.	Same quick installation as above; use on 1 3/8" 540 RPM PTO only; body is steel
70406		35979	For Turbo 90 pump & 5- & 8-Roller pumps with 15/16" shafts, 1 3/8" 1000 RPM PTO	2.3 lbs.	Same as above except use on 1 3/8" 1000 RPM PTO
70407	Steel Bodied PTO Quick Couplers for Turbo 90 and Roller Pumps	35992	For Turbo 90 pump with 15/16" shaft, 1 3/4" 1000 RPM PTO	4.6 lbs.	Same as above except use on 1 3/4" 1000 RPM PTO
76517		35992	Replacement pin for above couplers Except for 70407		*7-Roller pump on 540 PTO only NOTE: Do not use P/N 46814 Coupler for 5 Roller or Turbo 90 Pumps
76518		35993	Replacement pin for 70407 coupler		
70408		46935-1	For Turbo 90 pump and 5- & 8-Roller Pumps with 15/16" shafts, 1 3/8" 1000 RPM PTO	2.3 lbs.	This coupler reduces possible vibration by clamping a full 360° on the pump shaft and PTO. Better centering of pump shaft to tractor PTO; less chance for uneven wear. Both ends of coupler must be wrench-tightened onto PTO & pump shafts before operation. Do not force coupler too far onto PTO. After coupler is in position, 1/4"-3/8" of PTO spline should be visible.
70409	Collar™ Coupler for Turbo™ 90 Pumps and Roller Pumps	47647	For Turbo 90 pump & 5- & 8-Roller pumps with 15/16" shafts, 1 3/4" 1000 RPM PTO	3.7 lbs.	
70466		50101	For 4-Roller pump with 5/8" shaft & 5/8" motor or engine drive shaft	2.2 lbs	Aluminum set-screw coupler. Set screws are recessed for safety.
	for 4-Roller Pump				

**H y p r o P u m p C o u p l e r s**

**HYPRO ADAPTER FOR ADAPTING PUMPS TO PTO'S AND GAS ENGINES (FEMALE TO FEMALE)**

PART NO.	REPLACES	PTO (I.D.)	PUMP END (I.D.)	MATERIAL	RPM	PUMP MODEL
79035	1320-0015	3/4"	5/8"	steel	*	4000, 6500
71028	1320-0016	5/8"	5/8"	steel	*	4000, 6500
70424	1320-0022	1 3/8" (6 spline)	5/8"	die cast	540	6500 Series
70425	1320-0033	1 3/8" (6 spline)	15/16"	die cast	540	1500, 1700, 7560, 7700
70427	1320-0038	1 3/8" (21 spline)	15/16"	die cast	1000	1500, 1700, 7560
70426	1320-0053	1 3/8" (21 spline)	5/8"	die cast	1000	4000, 6500
70413	1320-0054	3/4"	15/16"	die cast	*	1500, 1700, 7560, 7700
71419	1320-0059	1 3/8" (6 spline)	1"	die cast	540	1200/5200
70415	1320-0076	1 3/8" (6 spline)	15/16"	forged steel	540	1500, 1700, 7560, 7700
70416	1320-0077	1 3/8" (6 spline)	5/8"	forged steel	540	6500
70417	1320-0078	1 3/8" (21 spline)	15/16"	forged steel	1000	1500, 1700, 7560
70445	1320-0079	1 3/8" (21 spline)	5/8"	forged steel	1000	4000, 6500
70446	1320-0080	1 3/4" (20 spline)	15/16"	forged steel	1000	1500, 1700, 7560
70447	1320-0081	1 3/8" (6 spline)	1"	forged steel	540	1200/5200

\* Refer to recommended pump rpm



**STEEL**



**DIE CAST**



**FORGED STEEL**

**HYPRO QUICK COUPLER (FEMALE TO FEMALE)**

PART NO.	REPLACES	PTO (I.D.)	PUMP END (I.D.)	MATERIAL	RPM	PUMP MODEL
70420	1321-0006	1 3/8" (6 spline)	5/8"	die cast	540	6500
70421	1321-0007	1 3/8" (6 spline)	15/16"	die cast	540	1500, 1700, 7560, 7700
70422	1321-0008	1 3/8" (21 spline)	5/8"	die cast	1000	4000, 6500
70423	1321-0009	1 3/8" (21 spline)	15/16"	die cast	1000	1500, 1700, 7560
70448	1321-0012	1 3/8" (multi-speed)	5/8"	die cast	540/1000	4000, 6500
70449	1321-0013	1 3/8" (multi-speed)	15/16"	die cast	540/1000	1500, 7560, 7700
70458	1323-0072	1 3/8" (6 spline)	15/16"	forged steel	540	1500, 1700, 7560, 7700
70459	1323-0073	1 3/8" (21 spline)	15/16"	forged steel	1000	1500, 1700, 7560
70462	1323-0074	1 3/8" (6 spline)	5/8"	forged steel	540	6500
70463	1323-0075	1 3/8" (21 spline)	5/8"	forged steel	1000	4000, 6500
70464	1323-0076	1 3/8" (multi-speed)	15/16"	forged steel	540/1000	1500, 1700, 7560
70465	1323-0077	1 3/8" (multi-speed)	5/8"	forged steel	540/1000	4000,6500
76515	3250-004	Replacement Nylon ball for above couplers				



**DIE CAST**



**FORGED STEEL**

## Ace Couplers

### ACE STANDARD COUPLERS

PART NO.	REPLACES	DESCRIPTION
70432	612-6SP	Fits 5/8" shaft on to 540 rpm 6 spline
70431	812-6SP	Fits 7/8" shaft on to 540 rpm 6 spline
70433	812-20SP	Fits 7/8" shaft on to 1000 rpm 20 spline
70434	812-21SP-78	Fits 7/8" shaft on to 1000 rpm 21 spline
70430	812-6SP-1516	Fits 15/16" shaft on to 540 rpm 6 spline
70428	812-20SP-1516	Fits 15/16" shaft on to 1000 rpm 20 spline
70435	812-21SP-1516	Fits 15/16" shaft on to 1000 rpm 21 spline



**STEEL  
BODY**

### ACE QUICK COUPLERS

PART NO.	REPLACES	DESCRIPTION
70436	612-6SPQC	Fits 5/8" shaft 540 rpm 6 spline
70437	612-21SPQC	Fits 5/8" shaft 1000 rpm 21 spline
70438	812-6SPQC-78	Fits 7/8" shaft 540 rpm 6 spline
70439	812-21SPQC-78	Fits 7/8" shaft 1000 rpm 21 spline
70460	812-6SPQC-1516	Fits 15/16" shaft 540 rpm 6 spline
70461	812-21SPQC-1516	Fits 15/16" shaft 1000 rpm 21 spline
76519	BAC-83-QC	Replacement ball for above couplers



**STEEL BODY**

### GARDEN TRACTOR AND ATV STEEL COUPLER

PART NO.	DESCRIPTION
70419	1" - 15 spline male x 5/8" female



**STEEL BODY**

### SHAFT COUPLINGS



**COUPLING  
END      CENTER  
DISC      COUPLING  
END**

### SERIES 2738 (2 HP LIMIT)

PART NO.	REPLACES	COUPLING BORE SIZE
70441	2738-0001	1/2" w/ 1/8" key
70442	2738-0002	5/8" w/ 3/16" key
70443	2738-0003	3/4" w/ 3/16" key
70444	2738-0004	7/8" w/ 3/16" key
70440	2728-0001	Centre disc for 2738 couplings

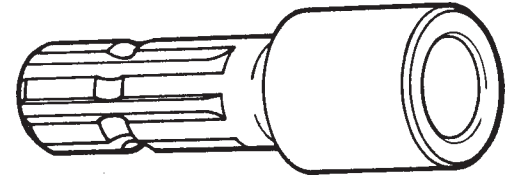
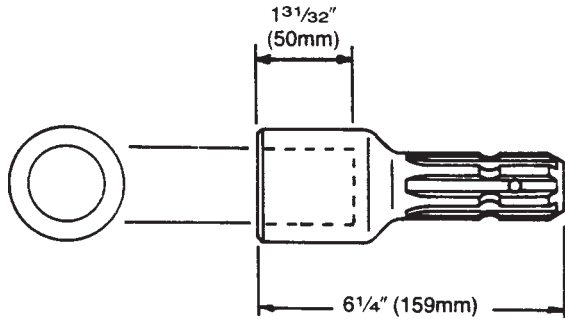
### SERIES 2739 (4 1/2 HP LIMIT)

PART NO.	REPLACES	COUPLING BORE SIZE
70451	2739-0001	5/8" w/ 3/16" key
70452	2739-0002	3/4" w/ 3/16" key
70453	2739-0003	7/8" w/ 3/16" key
70454	2739-0004	15/16" w/ 1/4" key
70455	2739-0005	1" w/ 1/4" key
70456	2739-0006	1 1/8" w/ 1/4" key
70450	2729-0001	Centre disc for 2739 couplings
70457	2729-0005	HD centre disc for 2739 coupler



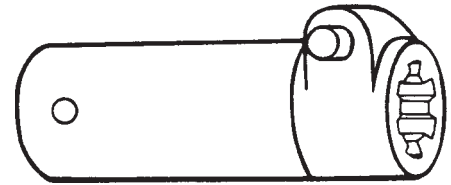
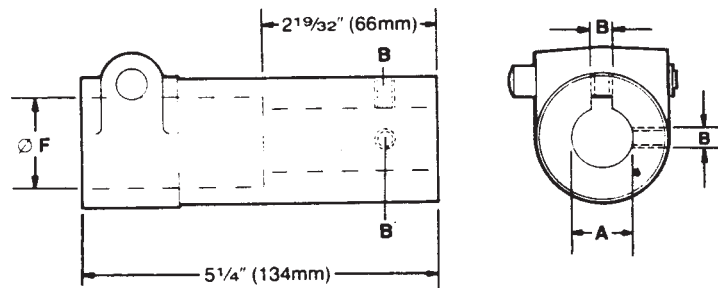
**Pump Couplers - 540 RPM - 6 Spline**

**SPECIAL PTO ADAPTER**



PART NO.	DESCRIPTION
PTO 4895	1" Round with 540 rpm (6 spline)
PTO 4896	1 1/8" Round with 540 rpm (6 spline)
PTO 4897	1 1/4" Round with 540 rpm (6 spline)
PTO 4898	1 3/8" Round with 540 rpm (6 spline)
PTO 4899	1 1/2" Round with 540 rpm (6 spline)

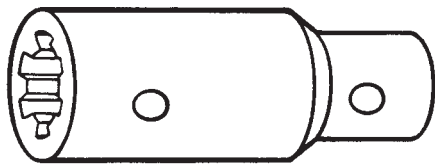
**QUICK RELEASE ADAPTER**



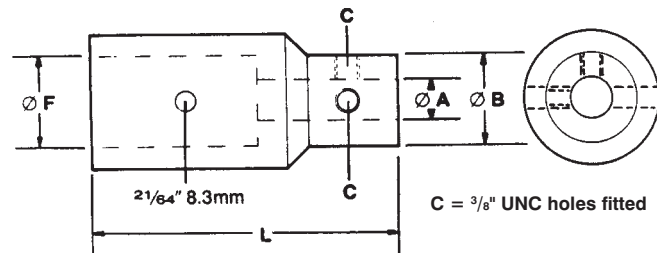
PART NO.	DESCRIPTION
PTO 4900	7/8" Round (A) with 540 rpm (6 spline)
PTO 4901	1" Round (A) with 540 rpm (6 spline)

B = 0.3165"/0.3188" (8.04mm/8.098mm).  
holes fitted with grub screws  
F = 1 3/8" (35mm) x 6 Spline.

**GENERAL PURPOSE PUMP ADAPTOR**



F FEMALE SPLINE	# OF SPLINES	PART NO.	A		B		OVERALL LENGTH		WEIGHT KG	
			IN	MM	IN	MM	IN	MM		
1 3/8	35	6	4981	5/8	16	1 3/8	35	4 5/8	117.5	0.82
1 3/8	35	6	4982	3/4	19	1 3/8	35	4 5/8	117.5	0.78
1 3/8	35	6	4983	7/8	22	1 3/8	35	4 5/8	117.5	0.74
1 3/8	35	6	4984	1	25	1 1/2	38	4 5/8	117.5	0.66



C = 3/8" UNC holes fitted with grub screws.

PART NO.	DESCRIPTION
PTO 4981	5/8" Round with 540 rpm (6 spline)
PTO 4982	3/4" Round with 540 rpm (6 spline)
PTO 4983	7/8" Round with 540 rpm (6 spline)
PTO 4984	1" Round with 540 rpm (6 spline)

**I N D E X**

**AIR ACTUATED VALVES**

Banjo ..... 2-63

**BALL VALVES MANUAL**

Ace ..... 2-89  
Banjo ..... 2-55 to 2-62, 2-70  
Brass ..... 2-86, 2-88, 2-89  
Black Carbon Steel ..... 2-86  
Drain ..... 2-88  
Garden Hose ..... 2-90  
PVC ..... 2-90  
Stainless Steel ..... 2-86, 2-87  
TeeJet ..... 2-52

**BALL VALVES BOLTED**

Banjo ..... 2-55 to 2-62, 2-70  
TeeJet ..... 2-52

**BALL VALVES FLANGED**

Banjo ..... 2-65 to 2-70

**BALL VALVES THREE WAY**

Banjo ..... 2-46 to 2-48, 2-50, 2-70  
Brass ..... 2-89  
TeeJet ..... 2-52

**BOLTED BALL VALVES**

Banjo ..... 2-55 to 2-62, 2-70  
TeeJet ..... 2-52

**BOOM CONTROL VALVES ELECTRIC**

Delavan ..... 2-42  
TeeJet ..... 2-5, 2-10, 2-32, 2-33,  
..... 2-34, 2-38  
Texas Industrial Remcor ..... 2-2, 2-20, 2-22, 2-23

**BOOM CONTROL VALVES MANUAL**

Delevan ..... 2-76  
TeeJet ..... 2-77

**BRASS BALL VALVES**

..... 2-86, 2-88, 2-89

**CHECK VALVES**

Brass ..... 2-91  
PVC ..... 2-90

**CHEMICAL ISOLATOR KIT**

..... 2-16, 2-92

**DAMPENERS**

..... 2-92, 2-95

**DIRECTO VALVES MANUAL**

Delavan ..... 2-76  
TeeJet ..... 2-77

**DRY-MATE VALVES**

Banjo ..... 2-62, 2-70

**ELECTRIC BALL VALVES**

Banjo ..... 2-43 to 2-48,  
..... 2-65 to 2-69

**ELECTRIC PRESSURE REGULATING VALVES**

TeeJet ..... 2-10, 2-32, 2-33  
Texas Industrial Remcor ..... 2-2, 2-20, 2-23

**FIRE HOSE NOZZLE**

..... 2-92

**FLANGED BALL VALVES**

Banjo ..... 2-65 to 2-70

**FOOT VALVES**

..... 2-91

**GARDEN HOSE VALVES**

..... 2-90

**GATE VALVES**

Brass ..... 2-88

**GAUGES**

..... 2-93 to 2-95

**GLOBE VALVES**

..... 2-88

**IBC VALVES**

..... 2-96, 2-97, 2-98

**IBC ACCESSORIES**

..... 2-99, 2-100

**LEVER VALVES**

Brass ..... 2-86 to 2-89

**MANIFOLD FITTINGS**

Banjo ..... 2-71 to 2-73

**MANIFOLD LINE STRAINERS**

Banjo ..... 2-74, 2-75

**MANIFOLD SYSTEMS**

Banjo ..... 2-64 to 2-75

**I N D E X**

**MANIFOLD TANK FITTINGS**

Banjo ..... 2-73

**MANIFOLD VALVES**

Banjo ..... 2-65 to 2-70

**POLY NOZZLE VALVE**

Banjo ..... 2-89

**PRESSURE GAUGES**

..... 2-93 to 2-95

**PRESSURE GAUGE DAMPENERS**

..... 2-95

**PRESSURE RELIEF VALVE**

Delevan ..... 2-81, 2-83, 2-84

Hamilton ..... 2-83

TeeJet ..... 2-81, 2-82, 2-84,

..... 2-85

**REMOTE CONTROL SYSTEMS**

TeeJet ..... 2-5 to 2-12

Texas Industrial Remcor ..... 2-1 to 2-4

**SELECTOR VALVES**

Delavan ..... 2-79

TeeJet ..... 2-78

**SINGLE UNION VALVES**

Banjo ..... 2-49, 2-50

**SIPHON TUBE**

..... 2-100

**SOLENOID VALVES**

Delevan ..... 2-42

Hypro ..... 2-33

TeeJet ..... 2-34, 2-38

Texas Industrial Remcor ..... 2-13 to 2-31

**STUBBY VALVE**

Banjo ..... 2-57 to 2-60

**SUCTION STRAINERS**

..... 2-91

**THREE WAY VALVE**

Banjo ..... 2-46, 2-50, 2-70

Banjo Flanged ..... 2-70

TeeJet ..... 2-33, 2-52

Texas Industrial Remcor ..... 2-16, 2-17, 2-26,

..... 2-29

**THROTTLING VALVES**

TeeJet ..... 2-85

**UNLOADER VALVES**

Hypro ..... 2-92

**Texas Industrial Remcor, Inc. Remote Control System**

**RC-1B SERIES**

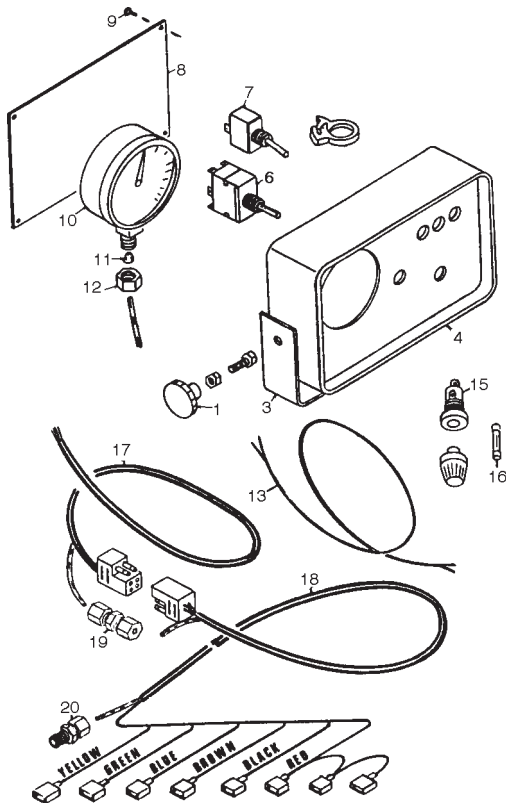
RC-1B remote control systems are designed to give the operator complete and safe control of both spraying pressure and boom shutdown from the tractor seat. The cab harness of the control console attaches to the sprayer harness with molded quick disconnects for quick and easy coupling of the sprayer to the tractor. This exclusive feature also affords the option of cab and sprayer harness lengths most suitable for your tractor and sprayer combination. Includes 0-100 psi or 0-700 kPa pressure gauge, adjustable mounting bracket, regulator switch, master switch, three on-off switches for solenoid shutoff valves, fuse holder with fuse, 8 ft. power cord, and high pressure gauge line encased in a tight fitting jacket of the wiring harness.

The standard control system is equipped with 6 ft. cab harness, 8 ft. sprayer harness, and 1560 3/4" nylon pressure regulator and is available with or without solenoid shutoff valves. 1541 pressure regulator has 1" ports.

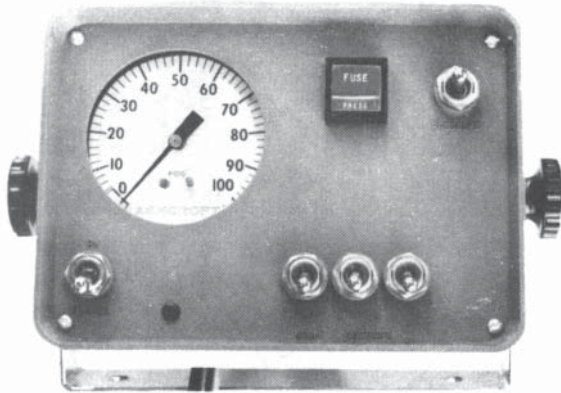


1560  
76630 - 3/4"  
1541  
76631 - 1"

PART NO.	REPLACES	MODEL NO.	DESCRIPTION
76600	RC-1B	RC-1B	Remote control system without solenoid valves but with 1560 pressure valve
76601	RC-1B-2	2060	Remote control system with (2) two 1999A-1 solenoid valves & 1541 pressure valve
76602	RC-1B-3	2040	Remote control system with (3) three 1999A-1 solenoid valves & 1541 pressure valve



REF	PART NO.	REPLACES	DESCRIPTION
1	76622	1266	Knob
3	76625	1927	Mounting bracket
4	76626	1986	Control panel for 3 boom switches (standard)
4	76627	2072	Control panel for 2 boom switches (optional)
6	76614	1175	Regulator switch
7	76610	1214	Boom switch
8	76628	1948	Back panel
10	75029	1213	Gauge, 0-100 psi (standard) 1/8" NPT
11	76608	1204	Ferrule
12	76609	1187	1/8" NPT nut
13	76605	1212	8' (2.4 m) power cord
15	76624	1172	Fuse holder
16	76629	70079	Fuse, 10 amp. 3AG
17	76616	1195	6' (1.8M) cab harness (standard)
17	76639	1294	10' (3m) cab harness (optional)
18	76638	1576	8' (2.4 m) sprayer harness (standard)
19	76621	1182	1/8" tube union
20	76618	1181	1/8" NPT x 1/8" tube fitting
	76648	1987	Complete panel, items 1 - 17, 3 switch
	76623	1231	15' (4.5 m) extension harness (optional)
	73000	0909	1/8" gauge tubing
	76630	1560	Regulator, 3/4" NPT
	76631	1541	Regulator, 1" NPT
	76680	1999A-1	Solenoid
	76699	2045	Repair kit for 1999A-1

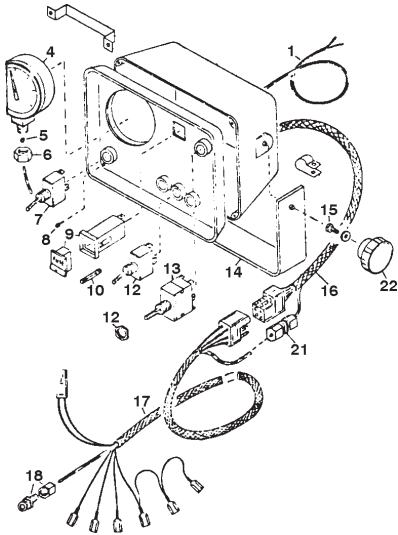


**76680 (1999A-1)**



**76630 - 3/4" (1560)**

**76631 - 1" (1541)**



**PARTS LIST**

REF	PART NO.	REPLACES	DESCRIPTION
1	76605	1212	Power cord
4	75029	1213	Gauge 0-100 psi
5	76608	1204	Ferrule
6	76609	1187	1/8 NPT nut
7	76610	1214	Master switch
8			Screw 4-40 x 3/8
9	76611	1215	Fuse holder
10	76612	1216	15 amp fuse
11	76610	1214	Boom switch
12	76613	1205	Hex nut for 1775 & 1214
13	76614	1175	Regulator switch
14	76615	1211	Mounting bracket
15			1/4-20 x 3/4 bolt w/nut & washer

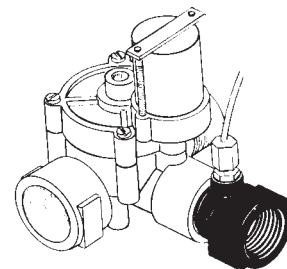
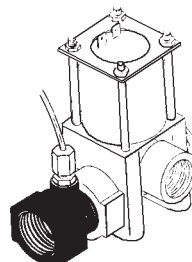
REF	PART NO.	REPLACES	DESCRIPTION
16	76616	1195	6' lead harness
17	76617	1196	8' wire harness
18	76618	1181	1/8 NPT x 1/8 tube fitting
21	76621	1182	1/8" tube union
22	76622	1266	Plastic knob
	76623	1231	15' harness extension
	73000	0909	1/8" gauge tubing
	76630	1560	Regulator - 3/4" NPT
	76631	1541	Regulator - 1" NPT
	76680	1999A-1	Solenoid
	76699	2045	Repair kit for 1999A-1

**3/4 NPT PRESSURE ADAPTER**

The No. 2152 Pressure Adapter is used to connect the 1/8" Gauge Tubing to the spray line. With the 2100 valve the adapter is used on the inlet side of the valve. With the 1999 valve the adapter is screwed into the outlet

**PART NO.**  
**76867**

**2502B**  
**2500B**  
**2100B**



**1999A**

**Texas Industrial Remcor, Inc. Sprayer Controls for Motorized Shutoff Valves**

Single Control System for sprayers which require control for only one motorized boom shutoff valve. Includes 0-200 PSI pressure gauge, control panel with mounting bracket, toggle-type on-off boom switch and pressure regulator switch, 9-ft. power cord with fuse holder, 20-ft. sprayer harness and 1541 1" pressure regulator.



PART NO.	REPLACES	DESCRIPTION
77007	2490	Single control system with 1541 1" pressure regulator

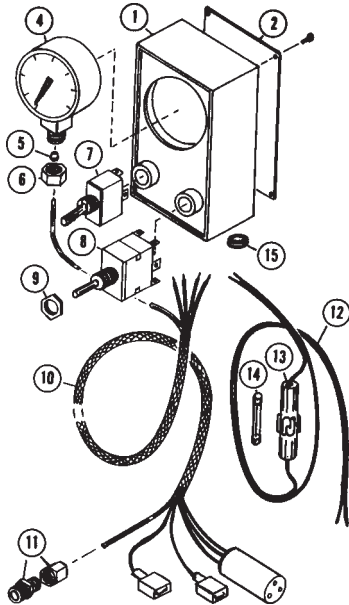
Remote Control System for sprayers which require 2 or 3 motorized boom shutoff valves. Equipped with 10 ft. cab harness and 10 ft. sprayer harness with molded quick disconnects for quick and easy coupling of the sprayer to the tractor. Includes 0-160 PSI pressure gauge, adjustable mounting bracket, toggle-type regulator switch, master switch, and on-off switches for motorized shutoff valves, 8 ft. power cord, fuse holder with fuse, high pressure gauge line encased in a tight fitting jacket of the wiring harnesses, and 1541 1" pressure regulator.

PART NO.	REPLACES	DESCRIPTION
77008	2460	Remote control system with 1541 1" pressure regulator and switch for 3 motorized shutoff valves
77009	2550	Remote control system with 1541 1" pressure regulator and switch for 2 motorized shutoff valves.



**Texas Industrial Remcor, Inc.**

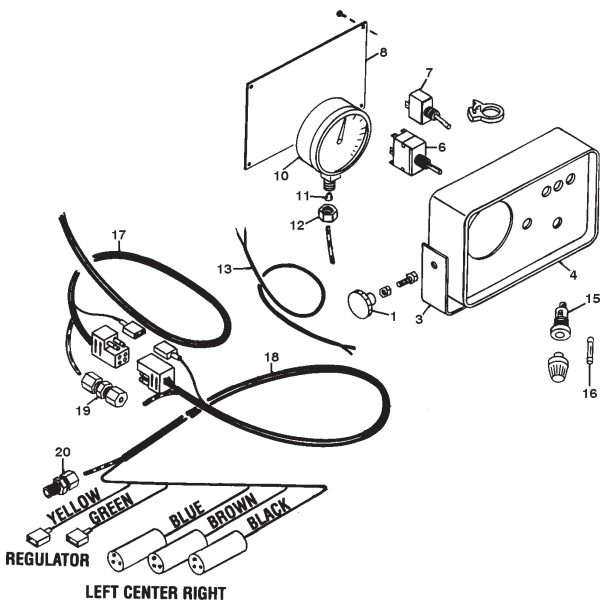
**No. 2490 Sprayer Control**



**PARTS LIST**

REF	PART NO.	REPLACES	DESCRIPTION	REQ.
1	77010	1186	Control box	1
2	77011	1203	Back plate	1
4	77014	2399	Gauge, 0-200 PSI, 1/4 NPT	1
5	76608	1204	Ferrule	1
6	77015	1320	1/4 NPT Nut	1
7	76610	1214	On-Off Switch	1
8	76614	1175	Regulator Switch	1
9	76613	1205	Hex Nut for 1214 & 1175	2
10	77019	2457	20' (6 m) harness	1
11	76618	1181	1/8 NPT x 1/8 tube fitting	1
12	77023	1206	Cord with fuse holder	1
13	77024	1207	Fuse Holder	1
14		1208	5 amp fuse	1
15		1209	Grommet	1
	77025	2465	Control Panel & Harness Assembly (Consists of items 1 thru 15)	1

**No. 2460 and 2550 Sprayer Control**



**PARTS LIST**

REF	PART NO.	REPLACES	DESCRIPTION	REQ.
1	76622	1266	Knob	2
3	76625	1927	Mounting bracket	1
4	76626	1986	Control panel for 3 boom switches	1
6	76614	1175	Regulator switch	1
7	76610	1214	Boom switch	4
8	76628	1948	Back panel	1
10	77026	1734	Gauge, 0-160 PSI 1/4 NPT	1
10	77027	2421	Gauge, 0-200 PSI (optional) 1/4 NPT	1
11	76608	1204	Ferrule	1
12	77015	1320	1/4 NPT nut	1
13	76605	1212	8' (2.4 m) power cord	1
15	76624	1172	Fuse holder	1
16	76629	70079	Fuse, 10 amp. 3 AG	1
17	77028	2548	10' (3 m) cab harness	1
18	77029	2549	10' (3 m) sprayer harness	1
19	76621	1182	1/8" tube union	1
20	76618	1181	1/8" NPT x 1/8" tube fitting	1
	77030	2551	Complete panel, items 1 thru 17, 3 switch	

**TeeJet Spray Control Kits**

The TeeJet K-Series Sprayer Control Kits provide the necessary components to upgrade your sprayer for remote application control.

All kits are packaged in an attractive display carton and include a control console, a pressure regulator valve, cables and required hardware. Refer to the table for included DirectoValve® boom section shutoff valves, available in NPT.



**744A SOLENOID VALVE CONTROL SYSTEMS KITS**

For pressures up to 100 PSI/7 bar

PART NO.	CONTROL KIT NO.	GAUGE	QTY.	KIT INCLUDES ITEM
76700	AAK744A-100D-10S 90-50156	100 PSI dry	1 1	744A Control - 1 boom section 244C-3/4 regulating valve
76701	AAK744A-100D-11S 90-50158	100 PSI dry	1 1 1	744A Control - 1 boom section 244C-3/4 regulating valve 144A DirectoValve
76702	AAK744A-100D-30S 90-50160	100 PSI dry	1 1	744A Control - 3 boom section 244C-3/4 regulating valve
76703	AAK744A-100D-33S 90-50162	100 PSI dry	1 1 3	744A Control - 3 boom section 244C-3/4 regulating valve 144A DirectoValve

**TeeJet Electric Pressure Regulating Valves**



AA244C-3/4

PART NO.

76846

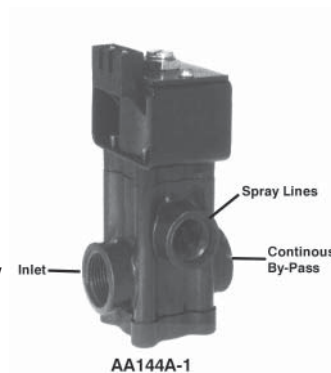
**AA244C-3/4**

The TeeJet AA244C-3/4 butterfly valve provides remote pressure control and features a two-wire lead for use in 12VDC system. Its quality design features good corrosion resistance, a low power consumption of 0.15 amp. and 3/4" NPT (F) connections.

**FEATURES:**

- Pressure drop of 5 PSI (0.35 bar) for 45 GPM (170 l/min) flow
- Maximum operating pressure is 100 PSI (7bar)

PART NO.	DESCRIPTION
76853	Repair kit for AA244C-3/4
76722	Repair kit for AA144A-1



AA144A-1

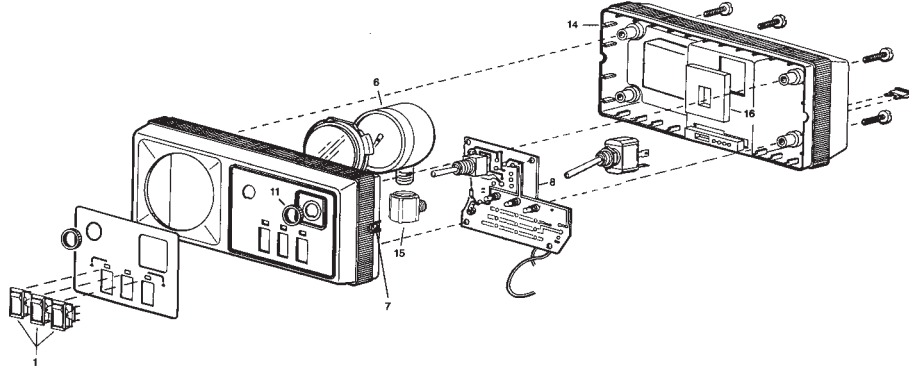
PART NO.

76710



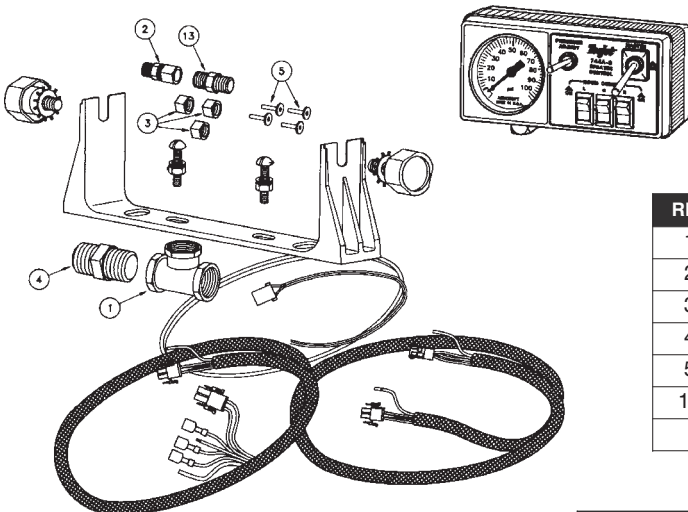
**Parts List Spraying Systems Remote Control System**

**AAK744A-100D SERIES**



REF	PART NO.	REPLACES	DESCRIPTION
1	76831	CP26211	Boom switch (3 req'd)
6	75009	CP26387-100	2 1/2" dry gauge (for model No. 37203-100D-3)
8	76836	37206	Circuit board module (includes items 9 & 10)
14	76841	21462-PHO	Back housing
15	76842	CP37211-NYB	Elbow, nylon (black)
	73000	0909	Gauge tubing

**Parts List Spraying Systems Remote Control System #AAK744A-100D Series**



REF	PART NO.	REPLACES	DESCRIPTION	QTY
1	73395	CP21476-NYB	Tee fitting, nylon	1
2	76618	CP21736-NY	Male connector, nylon	1
3	76827	CP21545-NY	Tubing nut, nylon	3
4	73242	CP21737-NYB	Close nipple, nylon (black)	1
5	76828	CP21494	Tubing insert, brass	4
13	76830	CP21486-NY	Male coupling, nylon	1
	73000	0909	1/8" gauge tubing	

PART NO.	DESCRIPTION	CONTROL	CABLE
76706	Extension cable (4.6 meters (15 ft.))	744A-1	21719-15
76707	Extension cable (4.6 meters (15 ft.))	744A-3	21720-15
76822	Power cable (2.7 meters (8 ft.))	744A	21478-2

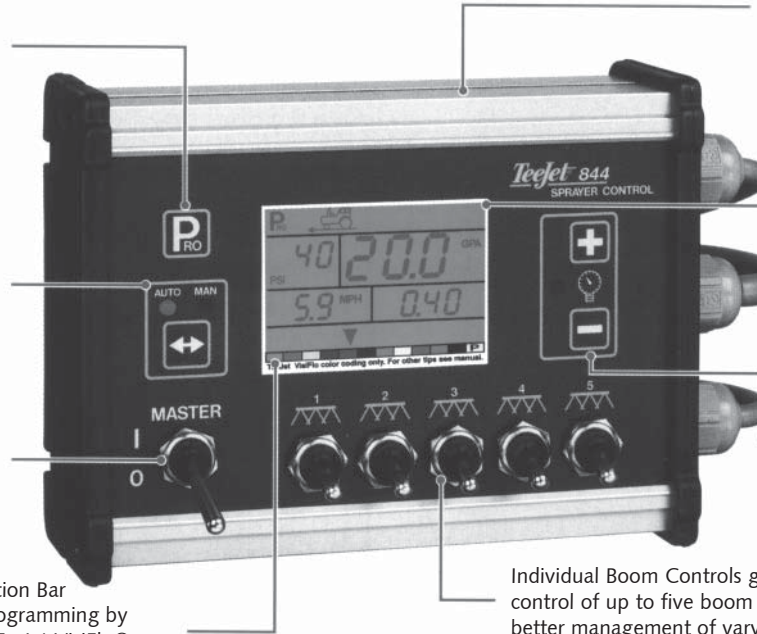
**TeeJet 844-E Sprayer Control**

Easily Accessible Programming Mode is very user-friendly. The process is made simple with a series of easy-to-follow, symbol-driven programming steps.

Auto/Manual Control gives the operator a manual application option for fail-safe reliability

Master Shutoff controls all boom sections with one switch

Color-Coded Tip Selection Bar allows for easy user programming by matching the color of TeeJet VisiFlo® spray tips



Aluminum Console Housing with sealed computer switch panel resists electronic interference and damage through rough handling for years of reliable service.

A Large, Backlit Display continuously displays all vital spraying functions. With a quick glance, the display reveals the application rate (automatically switches between target and actual), pressure, speed, area covered and volume applied.

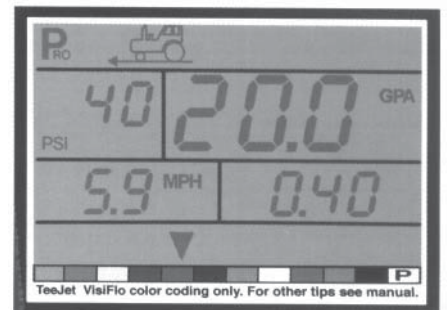
Boost Mode will temporarily increase or decrease application rates for special situations, such as in patches of heavy weeds.

Individual Boom Controls give independent control of up to five boom sections. This allows better management of varying field features, such as waterways and terraces.

The TeeJet 844 Sprayer Control offers spraying advantages not found in other controllers. Designed with simplicity in mind, computer-controlled spraying has never been so easy. Simply set your target application rate and the unique VisiFlo display on the 844 helps select the right TeeJet tip for the application. Once spraying begins, the large display shows application rate, volume sprayed, system pressure, sprayer speed and area covered. The built-in planning tool on the 844 automatically displays the speed needed to achieve the target rate with the specified tip. It will also calculate the pressure necessary for achieving the target application rate when the speed is entered.

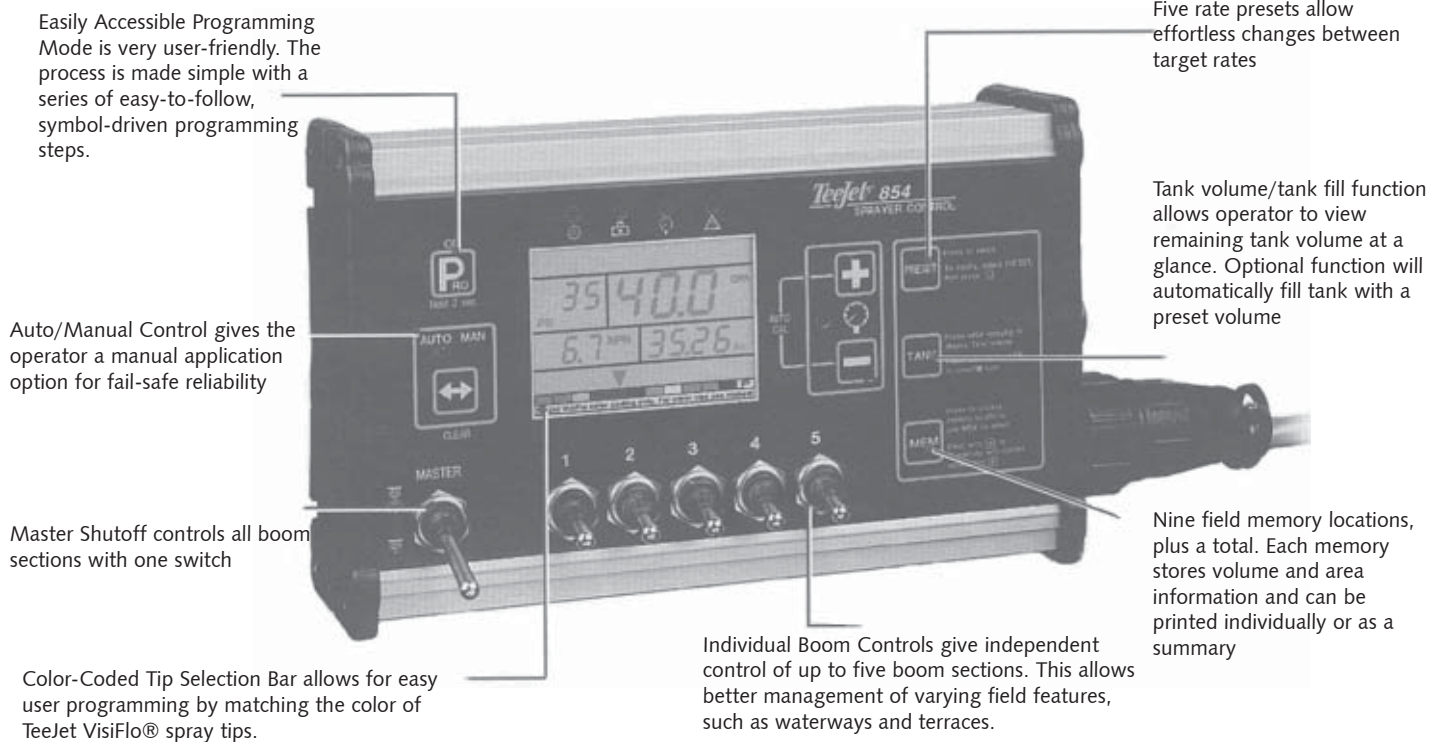
The 844 is available in a complete package with the valves, cables and sensors needed to put together a total sprayer control system, or as an individual controller.

- Full-featured sprayer control with industry-leading ease of use.
- Large backlit display shows all spraying information at a glance.
- Color-coded tip selection for easy programming
- Communication Port for PC and GPS interfacing
- Flow or pressure based regulation options provide reliability and flexibility
- Five boom section switches plus master shutoff
- Durable, weather-resistant aluminum housing
- Single cable connection for quick hookup



PART NO.	DESCRIPTION
90-50017	844-E-5 Core Kit (console w/mounting brackets, cables and manual

## TeeJet 854 Sprayer Control



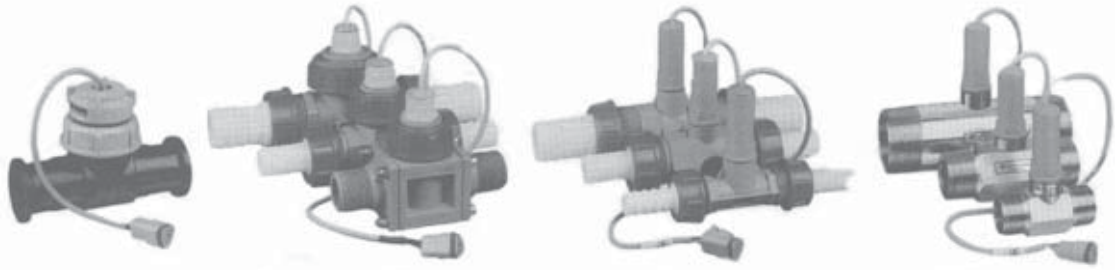
Enjoy a new generation of flexibility and power with the TeeJet 854 Spray Controller. This innovative new product combines the simple operation and programming of the proven TeeJet line with features not available until now in spray control systems.

**TeeJet 854 Sprayer Control** delivers features you need.

- Rugged construction, sealed switches and non-volatile memory mean dependability that won't let you down
- Single-connection wiring system provides durability that's clutter-free
- Front panel has clear instructions for easy operation
- Saves summary reports on up to 10 jobs
- Auto-Master can be set to automatically switch boom sections on and off at predetermined speeds
- Dual boom capability means wider ranges of speed and application rate
- Smart Sensing automatically selects between pressure or flow sensors, choosing the best sensor for that application
- Communications port for printer, PC, and GPS connections
- Auto tank fill allows the console to control tank filling operations

PART NO.	DESCRIPTION
90-02108	854 Core Kit (console with mounting brackets, cables and manuals)

**TeeJet Sprayer Control Flow Meters**



**Flow Meters**

A range of flow meters is available to match your application. Flow rates from .8 GPM to 400 GPM are available in a range of styles and bearing materials. The new 801 flow meter is a versatile design ideal for most applications between 2.5 and 60 GPM.

PART NO.	DESCRIPTION	FLOW CAPACITY
90-02163	1" Electromagnetic with 1" straight hose barbs	5-50 GPM (19-190 l/min)
90-02164	1" Electromagnetic with 1¼" straight hose barbs	5-50 GPM (19-190 l/min)
90-50230	1" 801 flow meter with 1" straight hose barbs	2.5-60 GPM (9.5-227 l/min)
90-50232	1" 801 flow meter with 1" straight hose barbs	2.5-60 GPM (9.5-227 l/min)
57-10096	¾" standard flow meter with ¾" hose barbs	1.9-37 GPM (7-140 l/min)
57-10036	1" Rapid Check flow meter with 1" hose barbs	4-50 GPM (15-190 l/min)
57-10061	1" Rapid Check flow meter with 1¼" hose barbs	4-50 GPM (15-190 l/min)
57-10097	2" standard flow meter with 2" hose barbs	19-400 GPM (72-1500 l/min)

**TeeJet Sprayer Control Speed Sensors**



**Radar Sensor**

The Compact Radar II uses a concentrated millimeter-wave radar signal and the proven Doppler shift principal to accurately measure vehicle ground speed.

- Unique design contained in a rugged plastic enclosure
- Output signal compatible with older speed sensor products
- Mounting height 24-39 inches (51-100 cm)
- EP-455 and CE compliant

**Magnetic Sensor**

The magnetic speed sensor kit is designed for versatility and long life. All components are plated steel or aluminum, and each sensor is equipped with a built-in test light and waterproof connectors.

- Built-in LED at sensor
- Weather resistant connector
- Reverse polarity protected

**Proximity Sensor**

TeeJet Proximity Sensors are reliable and easy to use because they don't require magnets and will produce a signal from any metal object.

- Built-in LED at sensor
- Weather resistant connector
- Reverse polarity protected

PART NO.	DESCRIPTION
16-40004	Proximity Speed Sensor
16-40007	Wheel Speed Sensor Kit (sensor, 2 magnets & brackets)
16-40012	Wheel Speed Sensor Kit (sensor, 4 magnets & brackets)
16-40003	Wheel Speed Sensor only
64-50014	Single Magnet Assembly
16-40013	Speed Sensor Bracket Assembly
90-02169	Compact II Radar Speed Sensor w/Adapter Cable

## TeeJet Sprayer Control Pressure Sensors

### Pressure Sensors

- Available in two pressure ranges for maximum accuracy in your application
- Reverse polarity protected
- Weather resistant connector
- 145 PSI (10 bar) and 363 PSI (25 bar)
- 1/4" NPT (M) connections
- Sensors can withstand 2x rated pressure without damage



PART NO.	DESCRIPTION
16-40001	Pressure Sensor, 1/4" NPT, 0-10 BAR/0-145 psi
16-40002	Pressure Sensor, 1/4" NPT, 0-25 BAR/0-363 psi

## TeeJet Sprayer Control Regulating Valves

### Ball Valve

The TeeJet 38550 regulating valve is a high quality ball valve designed for maximum durability with automatic sprayer controls. Available in 3/4" and 1" NPT sizes, the 38550's specially shaped ball allows more linear pressure regulation than standard ball or butterfly-type valves.



- Capacity of 27 GPM (121 l/min) at 5 PSI (0.35 bar) pressure loss
- Maximum pressure rating is 300 PSI (20 bar)
- Cycle time from fully closed to fully open is 6 seconds.

PART NO.	REPLACES
77569	35-50000 (1" NPT) AA 344AE-2RL-1
77568	35-50001 (3/4" NPT) AA344AE-2RL-3/4

### Butterfly Valve

- Butterfly-type valve design for smooth, precise regulation
- Proven motor design
- 3/4", and 1" connections available
- Maximum operating pressure 300 PSI (20 bar)
- 30 GPM (113 l/min) capacity at 5 PSI (.34 bar) pressure drop



PART NO.	REPLACES
77572	35-50003 (1" NPT) AA344AE-2RB-1
77573	35-50016 (3/4" NPT) AA344AE-2RB-3/4



### High Precision Ball Valve

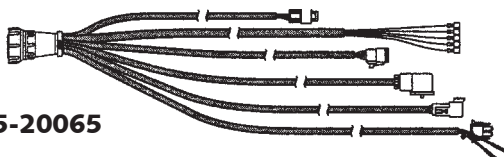
The TeeJet two-way linear pressure regulating valve is designed to provide gradual and smooth regulation. It is designed for use in situations where smooth regulation takes priority over maximum flow capacity. Available with 3/4" and 1" NPT connections.

- Capacity of 14 GPM (53 l/min) at 5 PSI (0.35 bar) pressure loss
- Maximum operating pressure of 300 PSI (20 bar)
- Cycle time from fully closed to fully open is 26 seconds

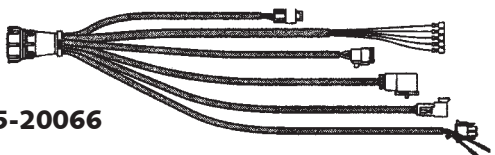
PART NO.	REPLACES
77570	35-50015 (1" NPT) AA344AE-2PR-1
77571	35-50031 (3/4" NPT) AA344AE-2PR-3/4

**TeeJet Sprayer Control Cables**

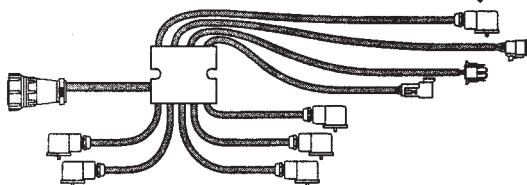
**45-20065**



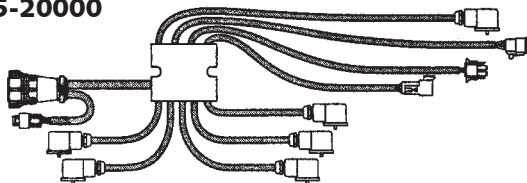
**45-20066**



**45-20000**



**45-20072**



**45-20239**



**45-20027, 28, 40, 41, 42**



**45-20009**



**For 854 Console:**

45-05210 Direct Cable for 854, 26'/8m, 5 section

**For 844 Consoles:**

45-20065 Direct Cable, 26'/8m, 5 section

45-20066 Direct Cable, 14'/4.2m, 5 section

45-20000 Junction Blox Cable, no power connection, 21'/6.4m valve cables, 5 section

45-20072 Junction Blox Cable, no power connection, 6'/1.8m valve cables, 5 section

78-05043 Direct Cable, for 10'/3m, 10 section

45-10046 Direct Cable, 10'/3m, 17'/5.2m speed lead, 5 section

**Extension cables for 844, 854 consoles:**

45-20239 SprayLink Ext. w/power and speed leads, 10'/3m, 5 section

45-20243 SprayLink Ext. w/power (ring terminals), 15'/4.6m, 5 section

45-10050 SprayLink Ext. w/power (ring terminals), 10'/3m, 10 section

45-20237 SprayLink Ext. 10'/3m, 5 section

45-20240 SprayLink Ext. 13'/4m, 5 section

45-20242 SprayLink Ext. 23'/7m, 5 section

45-20238 SprayLink Ext. 33'/10m, 5 section

45-20241 SprayLink Ext. 10'/3m, 10 section

**General Purpose cables for all consoles:**

45-20009 Power Cable, 12'/3.7m

45-20017 Wheel Speed Extension Cable, 15'/4.6m

45-20084 "Y" Adapter Cable-D-j Cable Splitter

45-20025 "Y" Adapter Cable-D-j or Magnavox (John Deere Tractor)

45-20026 "Y" Adapter Cable-D-j (CASE/IH)

45-20027 "Y" Adapter Cable-D-j or Magnavox (JD7000/8000)

45-20028 "Y" Adapter Cable-D-j (Cat 65C/75C)

45-20029 "Y" Adapter Cable-D-j (CAT 65/75)

45-20030 "Y" Adapter Cable-D-j (Ford/White)

45-20031 "Y" Adapter Cable-D-j (Ford Genesis)

45-20040 Radar Adapter Cable (Magnavox), 12"/.3m

45-20041 Radar Adapter Cable (Magnavox), 15'/4.6m

45-20042 Radar Adapter Cable (Dickey-john), 12"/.3m

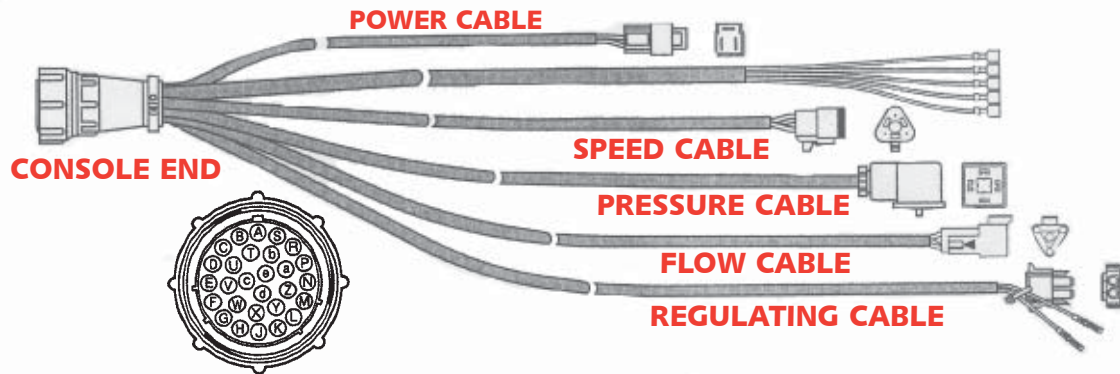
45-20043 Radar Adapter Cable (Raven), 12"/.3m

45-20044 Adapter Cable (Micro-Trak Trak Star), 12"/.3m

45-20032 Convenience Power Cable for John Deere 6'/1.8m

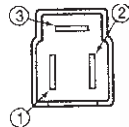
45-20033 Convenience Power Cable for Case/IH 6'/1.8m

**TeeJet Sprayer Control Cables (cont'd)**

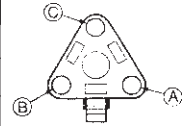


CONSOLE CONNECTOR	
PIN NO.	SIGNAL NAME
B	Section 1
C	Section 2
D	Section 3
E	Section 4
F	Section 5
R	Flow Signal
S	Pressure Signal
T	Speed Signal
V	Power Out
a	Regulating Valve (+)
b	Regulating Valve (+)
c	+ 12 VDC
d	Ground Free End (Valves)
e	+ 12 VDC Free End

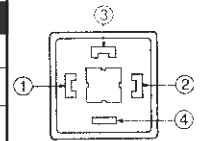
POWER CONNECTOR	
PIN NO.	SIGNAL NAME
1	+12 VDC
2	+12 VDC
3	Ground



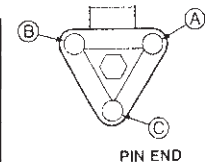
SPEED SENSOR CONNECTOR	
PIN NO.	SIGNAL NAME
A	Power Out
B	Speed Signal
C	Ground



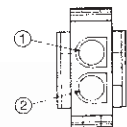
PRESSURE SENSOR CONNECTOR	
PIN NO.	SIGNAL NAME
1	Power Out
2	Pressure Signal
3	—
4	—



FLOW SENSOR CONNECTOR	
PIN NO.	SIGNAL NAME
A	Power Out
B	FlowSignal
C	Sensor Ground



REGULATOR CONNECTOR	
PIN NO.	SIGNAL NAME
1	+
2	-



**Printer**

The TeeJet Printer helps record and track application information by providing a paper record of total application history (odometer), field reports (tripometer), and programmed settings. The printer runs on 12 volts and is ready to connect to the TeeJet controller of choice.

**Features:**

- Printable programming parameters and machine settings
- Real time clock for date and time printing

**Part No. 78-20002**



**78-20002 PRINTER**

**Texas Industrial Remcor, Inc. Solenoid Valves**

Series 2200 12-volt DC solenoid valves have 1/4 NPT female inlet and outlet. The valve housing is made of glass filled nylon and the wetted metal parts of 304 and 430 stainless steel. Viton seals and O-Rings are standard. Coils are totally epoxy encapsulated with 1/4 male spade electrical connections. These direct operating valves can be used for foam and dye markers, small sprayers, boom end nozzles, chemical injection systems, individual nozzle shutoffs, etc.

The 2200 series are available in the following versions...

**2201-A SOLENOID VALVE**

.148 dia. orifice, .45CV rating, 1 GPM (3.75 LPM), 125 PSI (850 kPa), 12-volt DC, 1 amp. This is a good choice when large flow and high pressure is required.

PART NO.  
76860

**2202-A SOLENOID VALVE**

.148 dia. orifice, .45 CV rating, 1 GPM (3.75 LPM), 50 PSI (350 kPa), 12-volt DC, .85 amp. This valve has the same flow as the 2201-A. Can be used when maximum operating pressure does not exceed 50 PSI. Ideal for small sprayers.

PART NO.  
76861

**2203-A SOLENOID VALVE**

.105 dia. orifice, .26 CV rating, 1/2 GPM ( 1.9 LPM), 125 PSI (850 kPa), 12-volt DC, .85 Amp. This is a good choice for foam markers to control both air and liquids.

PART NO.  
76661

**2206-A SOLENOID VALVE**

.070 dia. orifice, .1 CV rating, .22 GPM (.85 LPM), 200 PSI (1400 kPa), 12-volt DC, .85 Amp.

PART NO.  
76878



2201-A



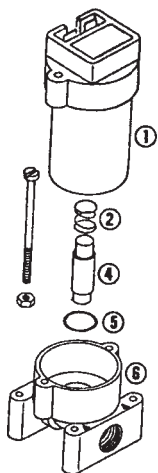
2202-A



2203-A



2206-A



**PARTS LISTING**

REF	PART NO.	REPLACES	DESCRIPTION
1	76697	1980	Coil 2201
1	76683	2188	Coil 2202, 2203, 2206
1	76877	2515	Coil 2201-A
2	76696	1979	Spring
4	76695	1978	Plunger w/Viton seat black, standard 2201
4	76685	2239	Plunger w/Viton seat black, standard 2202, 2203, 2201-A, 2206
4	76687	2112	Plunger w/Alfas seat brown, optional 2201
4	76686	2240	Plunger w/Alfas seat brown, optional 2202, 2203
5	76694	1977	O-ring, 014 Viton, black, standard
5	76684	2146	O-ring, 014 Aflas, brown, optional
6	76862	2171	Valve body, 148 orifice 2201, 2202, 2201-A
6	76669	2241	Valve body, 105 orifice, 2203
6	76879	2340	Valve body, 070 orifice, 2206

**SWITCH & WIRE ASSEMBLY**

Switch & wire assembly for on-off control of one solenoid shutoff valve. Includes on-off switch with 8 ft. battery power cord and 8 ft. wires with connectors for solenoid valve. 2114 switch & wire assembly.

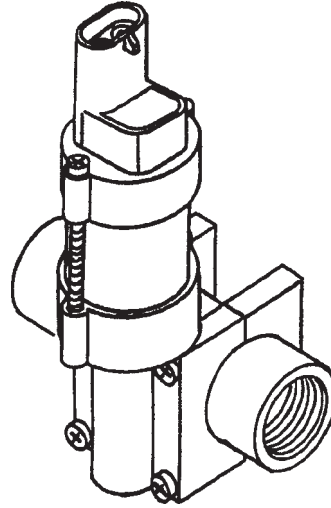


PART NO.  
76863



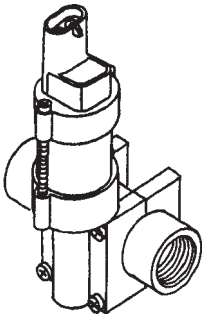
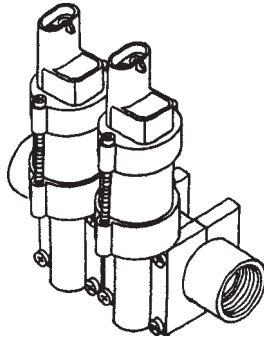
**Texas Industrial Remcor, Inc. 2200 Series Manifold Valves**

Series 2200 Manifold valves are clamped onto a 3/4" NPT pipe which acts as the central inlet for all the valves. The valves are plugged into 3/8" dia. holes drilled into the pipe. The 3/4" NPT pipe can be stainless steel, aluminium, brass, PVC, or P.P. The valves have a 1/4" NPT outlet. The valve housing is made of glass filled nylon and wetted metal parts of 430 and 304 stainless steel. Viton O-Rings and seals are standard. Coils are totally epoxy encapsulated with Weather Pack sealed electrical connections. Manifold valves are available in the following configurations


**2208 MANIFOLD VALVE**

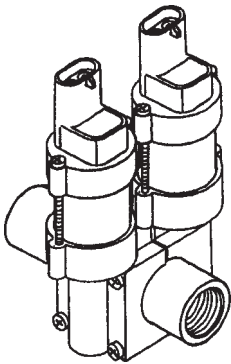
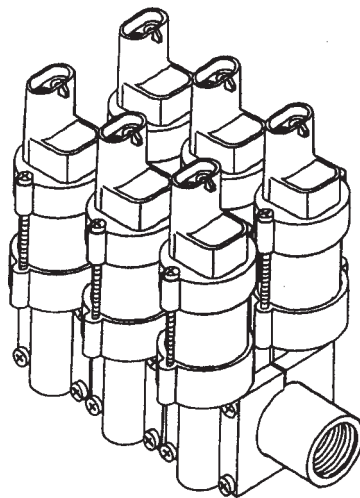
.148 dia. orifice. .45 CV. 1 GPM (3.75 LPM) at 5 PSI pressure drop.  
80 PSI (550 kPa) 12 Volt DC .85 amp.

PART NO.	REPLACES
SPP 77036	2208-1
SPP 77037	2208-2


**SPP 77036**

**SPP 77037**
**2209 MANIFOLD VALVE**

.148 dia. orifice. .45 CV. 1 GPM (3.75 LPM) at 5 PSI pressure drop.  
80 PSI (550 kPa) 12 Volt DC .85 Amp.

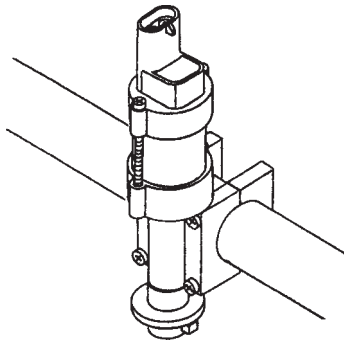
PART NO.	REPLACES
SPP 77038	2209-2
SPP 77039	2209-4
SPP 77040	2209-6


**SPP 77038**

**SPP 77040**

**Texas Industrial Remcor, Inc. 2600 Series Nozzle Body Valves**

Series 2600 nozzle body valves are clamped onto a 3/4" NPT boom pipe. The valves are plugged into 3/8" dia. holes drilled into the boom pipe. The nozzle outlet is compatible with most of the industry standard quick disconnect nozzle caps. The valve housing is made of glass filled nylon and wetted metal parts of 430 and 304 stainless steel. Viton O-Ring and seals are standard. Coils are totally epoxy encapsulated with Weather Pack sealed electrical connections. These direct operating valves can be used for field, golf course and road side spraying where instantaneous opening and shut off is desirable. The 2600 series nozzle valves are available in the following configurations.

**3/4" PIPE NOT INCLUDED**

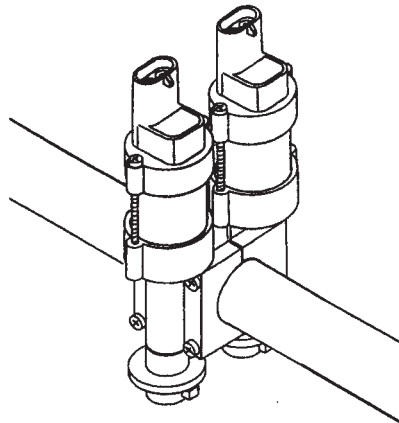


**SPP 77041**

**2605 NOZZLE BODY VALVE**

.148 dia. orifice. .45CV. 1 GPM (3.75 LPM) at 5 PSI pressure drop. 80 PSI (550 kPa) 12 Volt DC. .85 Amp.

PART NO.	REPLACES
SPP 77041	2605-1



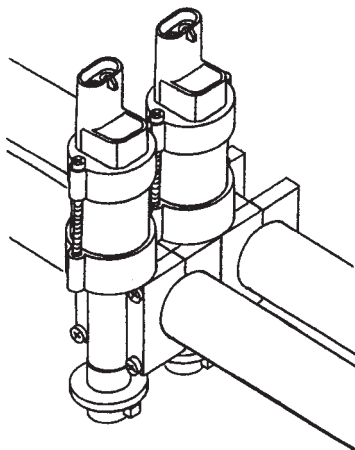
**SPP 77042**

**2606 NOZZLE BODY VALVE**

.148 dia. orifice. .45 CV. 1 GPM (3.75 LPM) at 5 PSI pressure drop. 80 PSI (550 kPa) 12 volt DC. .85 Amp.

This is a cluster of 2 valves. With different nozzle sizes this combination can give 3 spray rates. A cluster of 4 valves can give 15 spray rates.

PART NO.	REPLACES
SPP 77042	2606-2
SPP 77043	2606-4



**SPP 77044**

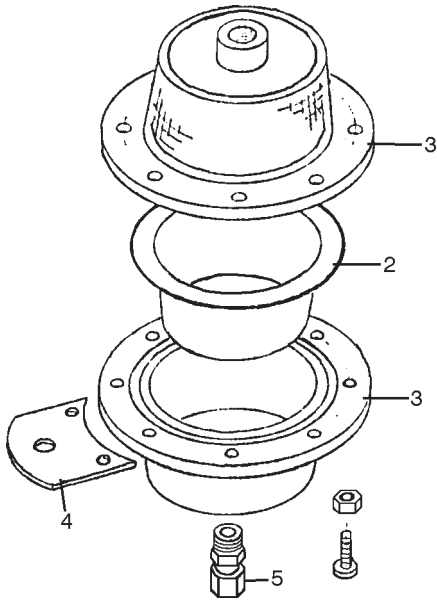
**2607 NOZZLE BODY VALVE**

.148 dia. orifice. .45CV. 1 GPM (3.75 LPM) at 5 PSI pressure drop. 80 PSI (550 kPa) 12 Volt DC. .85 Amp.

This is a cluster of 2 valves attached to 2 boom pipes. This makes immediate switch over from one chemical to another possible.

PART NO.	REPLACES
SPP 77044	2607-2

**Texas Industrial Remcor, Inc. Chemical Isolation Kit**



No. 2350 Chemical Isolator kit keeps chemicals from entering tractor or truck cab for added operator safety. Dampens and protects pressure gauge from corrosive chemicals. Large capacity assures accurate pressure reading. Fittings for 1/8" tubing are standard. Maximum operating pressure, 150 PSI (1000 kPa).

PART NO.
76649

REF.	PART NO.	REPLACES	DESCRIPTION
2	76663	2235	Diaphragm, Aflas, standard
2	76664	2197	Diaphragm, viton, optional
3	76665	2196	Body half, black
4	76666	2224	Mounting bracket
5	76618	1181	1/8" NPT x 1/8 tube fitting
	73000	0909	1/8" gauge tubing



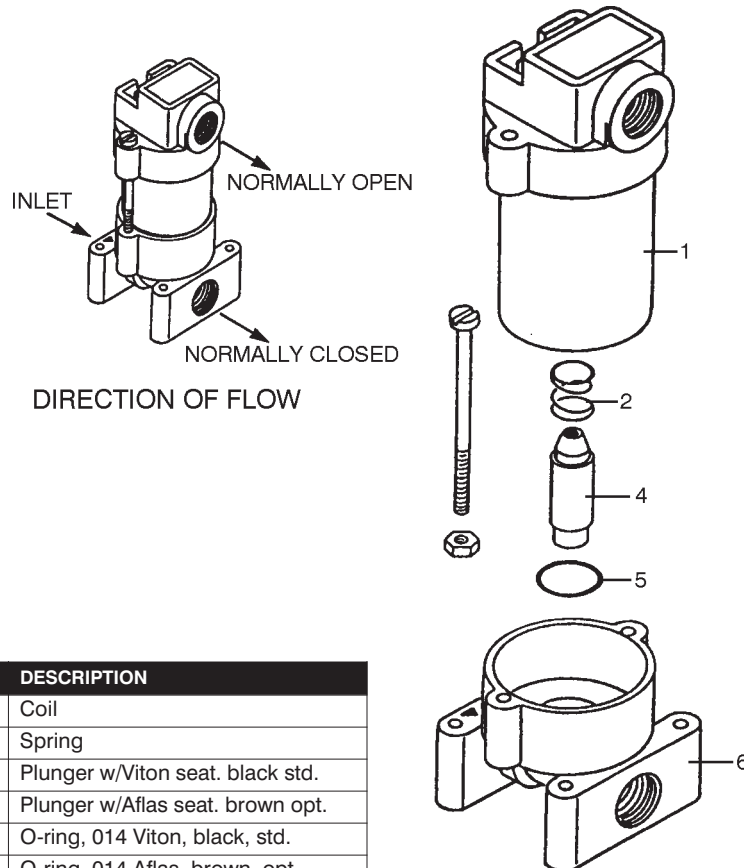
**Solenoid Valve**

**MODEL 2204 3 WAY SOLENOID VALVE**

PART NO.	REPLACES
76667	2204
78406	2204WP

**SPECIFICATIONS**

Valve Housing ..... Glass filled nylon  
 Inlet and outlet ..... 1/4 NPT  
 Wetted metal parts ..304 and 430 stainless steel  
 Seal and O-Ring ..... Aflas or Viton  
 Coil ..... Epoxy encapsulated  
 Terminals ..... 1/4" male tabs  
 Voltage ..... 12 Volt DC  
 Current ..... .85 AMP at 12 Volt  
 Operating Pressure ..... 40 PSI maximum  
 Flow ..... 0-1/2 GPM  
 Temperature ..... 120°F maximum

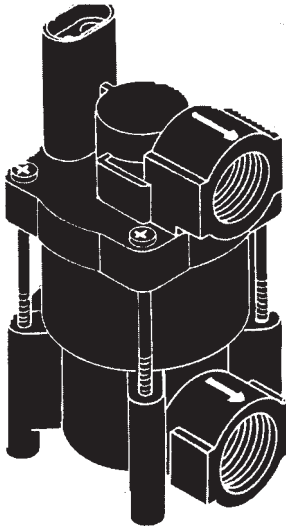


**PARTS LIST**

REF	PART NO.	REPLACES	DESCRIPTION
1	76668	2263	Coil
2	76696	1979	Spring
4	76681	2264	Plunger w/Viton seat. black std.
4	76682	2265	Plunger w/Aflas seat. brown opt.
5	76694	1977	O-ring, 014 Viton, black, std.
5	76684	2146	O-ring, 014 Aflas, brown, opt.
6	76669	2241	Valve body, 105 orifice



**Texas Industrial Remcor, Inc. 3-Way Solenoid Valves**



**PART NO.**  
76880

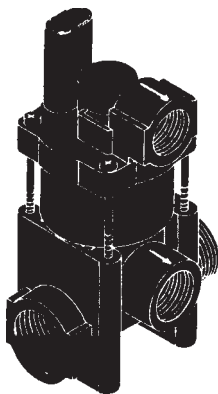
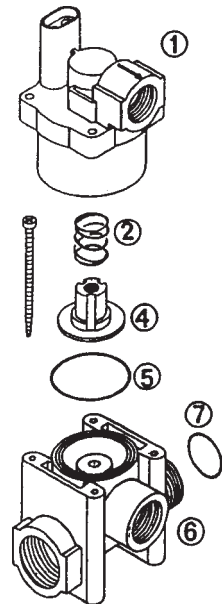
The 2504-B 3-way 12-volt DC solenoid valve has 1/2" NPT female inlet and two 1/2" NPT female outlets. The valve housing is made of glass filled nylon and the wetted metal parts of 430 stainless steel. Viton seal and O-Ring are standard. The coil is totally epoxy encapsulated and equipped with Weather Pack connector (shroud half). Ideal for foam markers to control both air and liquids – .220 orifice, .9 CV rating, 2 GPM (7.5 LPM), 75 PSI (500 kPa), 12-Volt DC, 1.1 Amp.

**SPECIFICATIONS**

	PART NO. 76880	PART NO. 76881
Valve housing	Glass filled nylon	Glass filled nylon
Inlet and outlet	1/2" NPT	3/4" NPT inlet, 1/2" NPT outlet
Wetted metal parts	304 and 430 stainless steel	304 and 430 stainless steel
Seal and O-Ring	Aflas or Viton	Aflas or Viton
Coil	Epoxy Encapsulated	Epoxy Encapsulated
Terminals	Weather pack, shroud half	Weather pack, shroud half
Voltage	12	12
Current	1.1 Amps at 12 Volt	1.7 Amp at 12 volt
Operating Pressure	75 PSI maximum	80 PSI maximum
Flow	0 - 2 GPM	0 - 2 GPM
Temperature	150°F maximum	150°F maximum

**PARTS LIST**

REF	PART NO.	REPLACES	DESCRIPTION
1	76900	2499	Coil (2505)
1	76882	2479	Coil (2504)
2	76883	2486	Spring
4	76884	2485	Plunger w/Viton seat
5	76885	2314	O-ring, .028 Viton
6	76899	2489	Valve body, .220 orifice (2505)
6	76886	2487	Valve body (2504)
7	76864	2166	O-ring, 018 (2505)



**PART NO.**  
76881

Model 2505 3-way solenoid valves have 3/4" NPT female inlet, 3/4" NPT male bypass outlet, and two 1/2" NPT female outlets. The valve housing is made of glass filled nylon and the wetted metal parts of 430 stainless steel. Viton seal and o-ring are standard. The coil is totally epoxy encapsulated and equipped with Weather Pack connector (shroud half). 12-Volt DC, 1.7 Amp, .9 CV Rating, 2 GPM (7.5 LPM), 80 PSI (550 kPa).

## Texas Industrial Remcor, Inc. 2600 Series Nozzle Body Valve

Series 2600 12-Volt DC solenoid valves have 1/4" NPT female inlet and a nozzle body outlet. The nozzle body outlet is compatible with most of the industry standard quick disconnect nozzle caps. The valve housing is made of glass filled nylon and the wetted metal parts of 304 and 430 stainless steel. Viton seals and O-Rings are standard. Coils are totally encapsulated with 1/4" spade or Weather Pack sealed electrical connections. These direct operating valves can be used for boom end nozzles, individual nozzle shutoffs, etc.

The 2600 series valves are available in the following versions. Prices do not include nozzle caps.

### 2601A SOLENOID VALVE

.148 dia. orifice, .45 CV rating  
1 GPM (3.75 LPM), 125 PSI (850 kPa), 1.1 Amp

PART NO.

76887

### 2601AWP SOLENOID VALVE

PART NO.

76888

### 2602A SOLENOID VALVE

.148 dia. orifice, .45 CV rating  
1 GPM (3.75 LPM), 50 PSI (350 kPa), .85 Amp

PART NO.

76889

### 2602AWP SOLENOID VALVE

PART NO.

76890

### 2603A SOLENOID VALVE

.105 dia. orifice, .26 CV rating  
1/2 GPM (1.9 LPM), 125 PSI (350 kPa), .85 Amp

PART NO.

76891

### 2603AWP SOLENOID VALVE

PART NO.

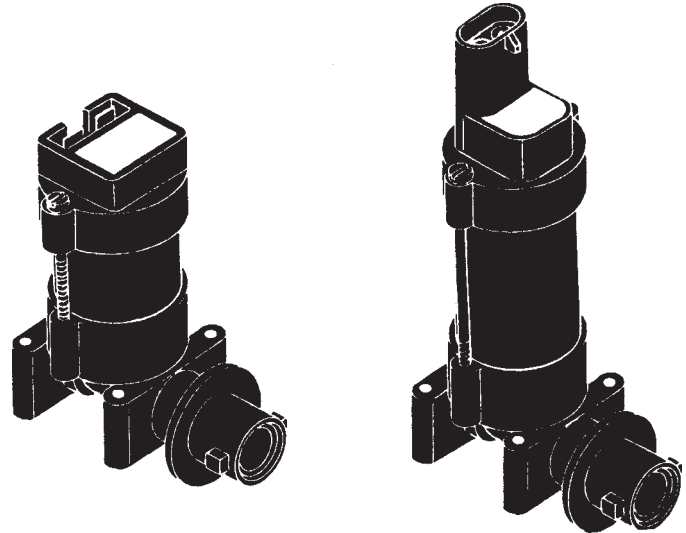
76892

### 2205 SOLENOID VALVE

Same as 2602 with 1/8" ports

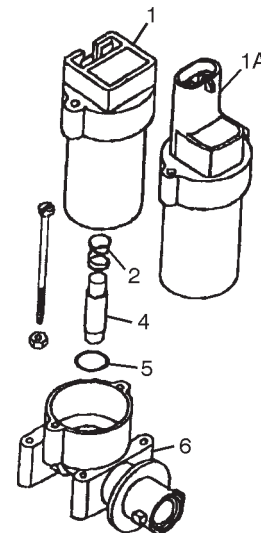
PART NO.

77035



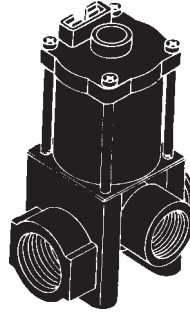
To order with Weather Pack connector, simply add "WP" after the part number of the valve.

REF	PART NO.	REPLACES	DESCRIPTION
1	76877	2515	Coil (2601A)
1	76683	2188	Coil (2602A, 2603A)
1A	76901	2520	Coil w/Weather Pack Connector (2601A)
1A	76902	2477	Coil w/Weather Pack Connector (2602A, 2603A)
2	76696	1979	Spring
4	76685	2239	Plunger w/Viton seat
5	76694	1977	O-ring, .014 Viton
6	76903	2488	Valve body, .148 orifice



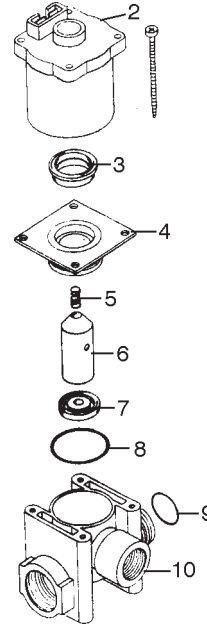
**Texas Industrial Remcor, Inc. 2100B-1 Series Solenoid Valves and Assemblies**

PART NO.	REPLACES	DESCRIPTION
76660	2100B-1	12 volt DC solenoid valve



**PARTS BREAKDOWN**

REF	PART NO.	REPLACES	DESCRIPTION	QTY. REQ.
2	76671	2140	Coil	1
3	76676	*2251	Aflas lip seal, optional	1
3	76893	°2254	Viton lip seal, standard	1
4	76677	2349	Base plate	1
5	76673	°*2176	Spring	1
6	76674	2092	Plunger	1
7	76675	*2121	Seal compound TIR, optional	1
7	76895	°2093	Seal, Viton, standard	1
8	76896	*°2339	O-ring, 024 Viton	1
9	76864	2166	O-ring, 018	1
10	76897	2351	Body	1
	76865	2252	Aflas repair kit. Consists of items marked with*.	
	76898	2255	Viton repair kit. Consists of items marked with°.	



Series 2100B 12-Volt DC electric boom shutoff valves have 3/4" NPT female inlet, 3/4" NPT male bypass outlet, and 1/2" NPT female boom line outlet. These direct operating valves are designed for 125 PSI maximum operating pressure. Only 5 PSI pressure loss at 10 GPM. Totally enclosed epoxy encapsulated coil draws only 2.4 amps per valve at 12 volts. Viton seals and O-Rings are standard, Aflas is optional, both are easily replaced. Wetted parts consist of 430 stainless steel and chemical resistant glass filled nylon body. For multiple units, simply screw one valve to another

**Texas Industrial Remcor, Inc. 1999A-1 Series Solenoid Valves and Assemblies**

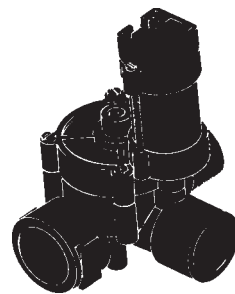
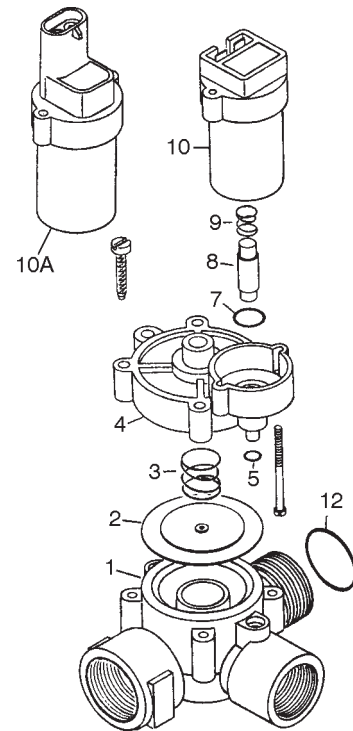
**NEW STYLE BEGINNING YEAR 2000**

PART NO.	REPLACES	DESCRIPTION
76680	1999A-1	12 volt DC solenoid valve

**PARTS BREAKDOWN**

REF	PART NO.	REPLACES	DESCRIPTION	QTY. REQ.
1	76689	1962	Valve body	1
2	76690	*1974	Viton diaphragm assembly, standard	1
2	76904	°2109	Aflas diaphragm assembly, optional	1
3	76691	°*1975	Spring	1
4	76692	1963	Valve cover	1
5	76693	°*1976	Viton O-Ring 010	1
7	76694	°*1977	Viton O-Ring 014	1
8	76685	*2239	Plunger w/Viton seat, standard	1
8	76686	°2240	Plunger w/Aflas seat, optional	1
9	76696	°1979	Plunger spring	1
10	76877	2515	Coil assembly	1
10A	76901	2520	Coil assembly, weather pack	1
12	76906	2168	O-Ring 022	1
	76908	2517	Viton repair kit - consists of items marked *	
	76909	2518	Aflas repair kit - consists of items marked °	

Series 1999A 12-Volt DC electric boom shutoff valves have 1" NPT female inlet, 1" male bypass outlet, and 3/4" NPT female boom line outlet for high volume applications at minimum pressure loss (pressure drop is only 5 psi at 18 GPM). Current draw of only 1.1 amp per valve. Chemical resistant glass filled nylon body with Viton or Aflas diaphragm and seals. Maximum operating pressure, 175 PSI. For multiple valve units, simply screw one valve to another.



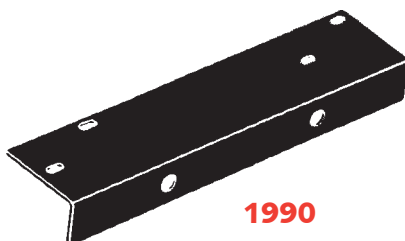
SPP 76680

**SPECIFICATIONS:**

Valve Housing ..... Glass filled nylon  
 Wetted metal parts ..... 304 and 430 stainless steel  
 Diaphragm, seats and seals ..... Viton  
 Coil ..... Epoxy encapsulated  
 Terminals ..... 1/4" male tabs  
 Voltage ..... 12 Volt DC  
 Current ..... 1.1 Amp at 12 Volt  
 Pressure ..... 175 PSI max., 10 PSI min.  
 Flow ..... 0 - 18 GPM  
 Actuating Pressure ..... 5 PSI

**Mounting Brackets**

Valve Mounting Brackets are formed from 14 gauge stainless steel. Screws for attaching brackets to valve(s) are included.



1990

PART NO.	REPLACES	DESCRIPTION
77890	1988	Bracket for Single Valve (1999A-1)
78458	1989	Bracket for Double Valve (1999A-2)
77891	1990	Bracket for Triple Valve (1999A-3)

**Texas Industrial Remcor, Inc. 1999 Series Solenoid Valve**

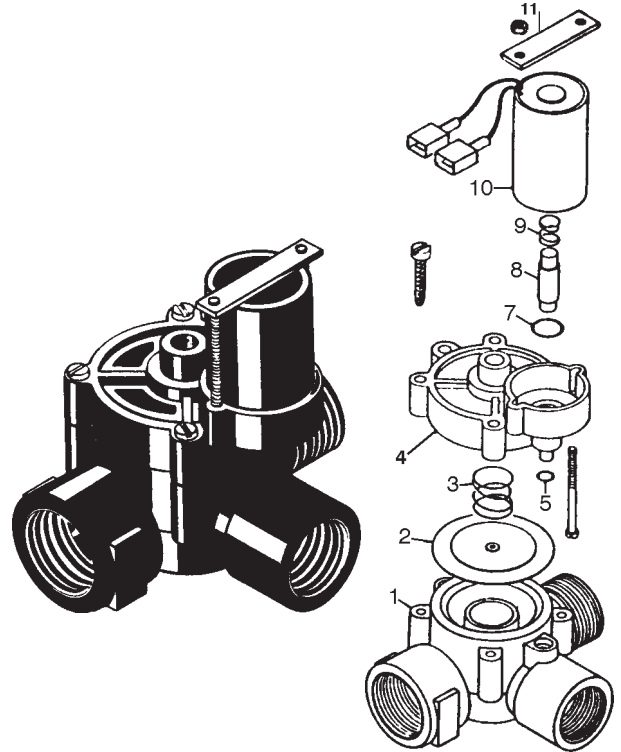
**1" NPT FEMALE INLET, 1" NPT MALE BYPASS AND 3/4" NPT FEMALE BOOM OUTLET  
OLD STYLE PREVIOUS TO YEAR 2000 (PARTS ONLY)**

**PARTS BREAKDOWN**

REF.	PART NO.	REPLACES	DESCRIPTION	NO. REQ.
1	76689	1962	Valve body	1
2	76690	*1974	Diaphragm assembly	1
3	76691	*1975	Spring	1
4	76692	1963	Valve cover	1
5	76693	*1976	O-ring	1
			6-32 x 3 screw w/hex nut	2
7	76694	*1977	O-ring	1
7	76684	2146	Aflas o-ring	
8	76695	*1978	Plunger	1
8	76687	2112	Plunger with aflas seat	
9	76696	*1979	Plunger spring	1
10	76697	1980	Coil Assembly	1
11	76698	1981	Clamp	1
	76699	2045	Repair kit consists of items marked *	

**SPECIFICATIONS:**

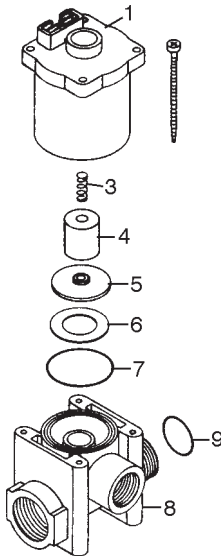
Valve Housing ..... Glass filled nylon  
 Wetted Metal Parts ..... 304 and 430 stainless steel  
 Diaphragm, Seats and Seals ..... Viton  
 Coil ..... Epoxy encapsulated  
 Terminals ..... 1/4" male tabs  
 Voltage ..... 12 volt DC  
 Current ..... 1 Amp at 12 Volt  
 Pressure ..... 125 PSI max, 10 PSI min.  
 Flow ..... 0-15 GPM  
 Actuating Pressure ..... 5 PSI





**Texas Industrial Remcor, Inc. 2500B-1, 2501B and 2502B-1 Series Solenoid Valves**
**PARTS BREAKDOWN**

REF.	PART NO.	REPLACES	DESCRIPTION	NO. REQ.
1	76912	2311	Coil (2500B, 2501B)	1
1	76919	2384	Coil (2502B)	1
3	76913	*2315	Spring	1
4	76914	2310	Plunger (2501B)	1
4	76920	2383	Plunger (2500B, 2502B)	1
5	76915	*2307	Disc valve Viton	1
6	76916	*2363	Washer	1
7	76885	*2314	O-ring, 028 Viton	1
8	76917	2295	Valve body (2500B, 2502B)	1
8	76921	2356	Valve body (2501B)	1
9	76864	2166	O-ring, 018	1
	76918	2352	Repair kit consists of items marked *	

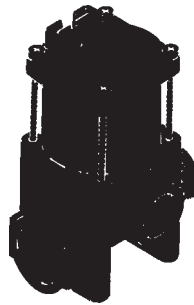


Model 2500B and 2502B 12-Volt DC electric boom shutoff valves have 3/4" NPT female inlet, 3/4" NPT male bypass outlet, and 1/2" NPT female boom outlet. Totally enclosed epoxy encapsulated coil draws only 1.7 amps per valve at 12 volts. Equipped with Viton seat and seal. Wetted parts consist of 430 stainless steel and chemical resistant glass filled nylon body. For multiple units, simply screw one valve to another.

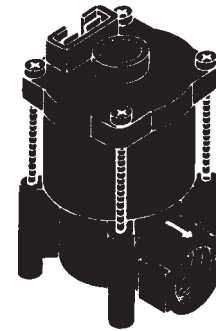
Model 2500B Series Valves are designed for 100 PSI maximum operating pressure and 0-10 GPM (only 5 PSI pressure loss at 10 GPM).

Model 2502B Series valves are designed for 175 PSI maximum operating pressure and 0-8 GPM (only 5 PSI pressure loss at 8 GPM).

Model 2501B 12-Volt DC electric shutoff valve has 1/2" NPT female inlet and outlet. This valve is designed for 150 PSI maximum operating pressure. Only 5 PSI pressure loss at 6 GPM. Totally enclosed epoxy encapsulated coil draws only 1.7 amps at 12 volts. Equipped with Viton seat and seal and chemical resistant glass filled nylon body.



PART NO.	REPLACES
76910	2500B-1
76911	2502B-1



PART NO.	REPLACES
76922	2501B

**Texas Industrial Remcor, Inc. Electric Pressure Regulator**

The model 1560 and 1541 electric pressure regulators are equipped with a precision high torque motor and gear reduction, and high strength valve body for heavy-duty service. Chemical resistant glass filled nylon body, stainless steel motor shaft and butterfly, and viton seal. Low current draw, 50 MA at 12 volt. Maximum recommended pressure, 150 psi. Speed at 12 volt = 1 rpm, or at 6 volt = .5 rpm.

Model 1560 features close tolerance butterfly for use as either bypass regulator or throttling valve.

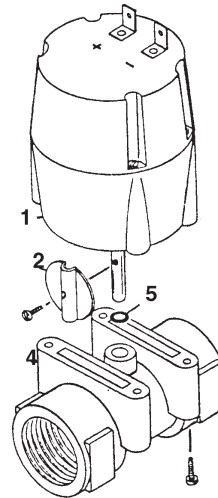
Switch & Wire Assembly for electric pressure regulators includes two-way switch with 8' battery power cord and 8' wires from switch to regulator connector.

PART NO.	REPLACES	DESCRIPTION
76630	1560	3/4" NPT with 3/4" orifice flow rates to 50 GPM
76631	1541	1" NPT with 1" orifice flow rates from 15 to 100 GPM
76866	1625	Switch & Wire Assy. for 1541 or 1560 pressure regulator



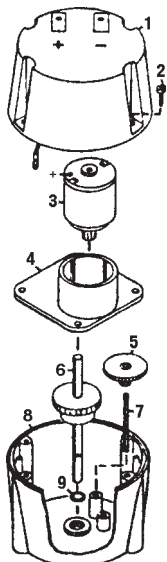
**1560 (NEW STYLE) NYLON ELECTRIC REGULATOR PARTS**

REF.	PART NO.	REPLACES	DESCRIPTION
1	76641	1559	Motor
2	76642	1150	Butterfly valve
4	76643	1479	Regulator body
5	76635	1169	O-ring



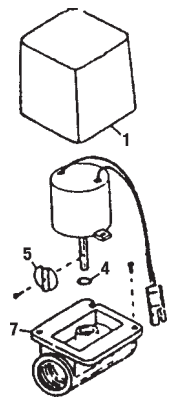
**1541 NYLON ELECTRIC REGULATOR PARTS**

REF.	PART NO.	REPLACES	DESCRIPTION	QTY.
1	76632	1554	Motor assembly	1
2	76633	1556	Butterfly valve	1
4	76634	1480	Valve body	1
5	76635	1169	O-ring, .008 Viton	1



**MOTOR HOUSING ASSEMBLY FOR 1560 AND 1541**

REF.	PART NO.	REPLACES	DESCRIPTION	REQ.
1	76640	1557	Cover assembly	1
3	76868	70093	Motor with pinion gear	1
4	76869	1484	Motor plate	1
5	76636	1509	Spur gear & pinion - nylon	4
6	76870	1513	Shaft with gear. 1560 regulator	1
6	76871	1558	Shaft with gear. 1541 regulator	1
7	76637	1510	Shaft	2
8	76872	1483	Gear housing	1
9	76635	1169	O-ring, .008 Viton or Buna	1
	76641	1559	Complete motor assembly 1560 regulator	
	76632	1554	Complete motor assembly 1541 regulator	



**1220 (OLD STYLE) NYLON ELECTRIC REGULATOR PARTS**

REF.	PART NO.	REPLACES	DESCRIPTION
1	76644	1165	Cover
4	76635	1169	O-ring
5	76646	1222	Butterfly valve
7	76647	1221	Regulator body

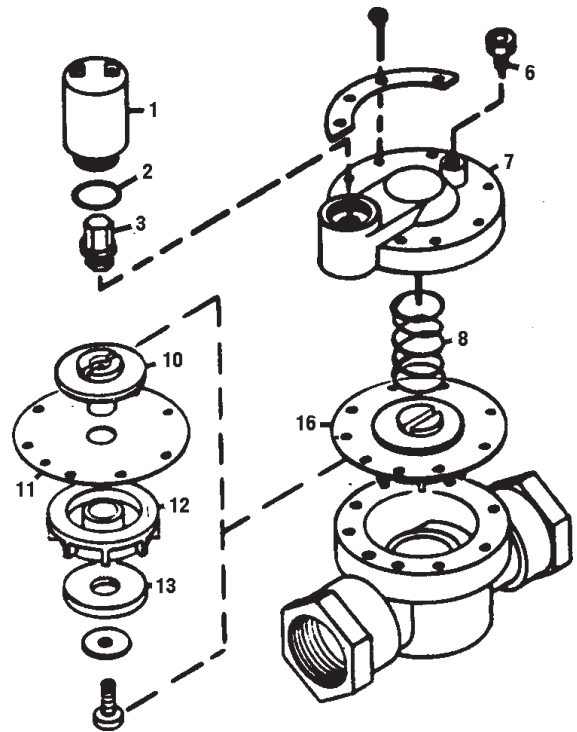
## Texas Industrial Remcor, Inc. 1666 Series Solenoid Valve

1" NPT, 20 GPM, 12 VOLT DC

COMPLETE VALVE NOT AVAILABLE (PARTS ONLY)

### PARTS LIST

REF.	PART NO.	REPLACES	DESCRIPTION	REQ.
1	76651	1604	Coil	1
2	76652	1605	O-ring, EPDM, standard	1
3	76873	1607	Plunger and spring assembly	1
6	76653	1609	Valve	1
7	76654	1610	Cover	1
8	76874	1611	Spring	1
10	76656	1613	Diaphragm washer	1
11	76657	1614	Diaphragm, EPDM, standard	1
12	76875	1616	Guide	1
13	76876	1617	Valve seat, EPDM, standard	1
16	76658	1621	Diaphragm assembly with EPDM parts	1
16	76659	1622	Diaphragm assembly with Viton parts	1

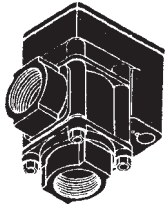


**Texas Industrial Remcor, Inc. 2400 Series 2-Way Motorized Valves**

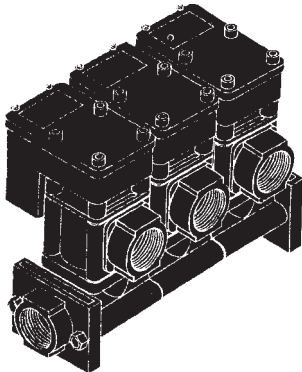
**20 GPM, 150 PSI, 12 VOLT**

Series 2400 valves have 1" or 1 1/2" NPT inlet and 1" NPT outlet. Only 5 PSI pressure drop at 20 GPM. Wetted parts are made of glass filled nylon and 303 stainless. Easy to replace Viton face seal. Totally enclosed motor with sealed connector, draws 1 Amp max. Motor is protected by a self resetting fuse. Open and closing time .8 sec.

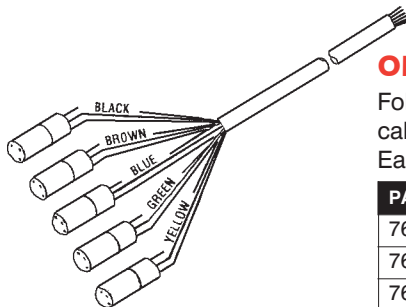
PART NO.	REPLACES	DESCRIPTION
76923	2402	The 2402 is a single valve with a 1" NPT bottom inlet and a 1" NPT side outlet



The 2404 valves are mounted on a stackable manifold, up to 5 sections. It can be assembled with 1" NPT or 1 1/2" NPT end plates on both ends or with a blank end plate on one end. Mounting holes are on the bottom of the end plates.



PART NO.	REPLACES	DESCRIPTION
76925	2404-1	Shutoff valve single
76926	2404-2	Shutoff valve double
76927	2404-3	Shutoff valve triple
76928	2404-4	Shutoff valve quadruple
76929	2404-5	Shutoff valve quintuple



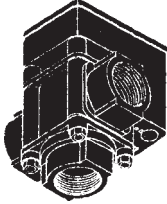
**OPTIONAL EQUIPMENT**

Following 25' harnesses are available for 2, 3, 4, and 5 valve automatic spray rate controllers. These cables have a 1/8" OD tube for pressure sensing, but do not have wires for a pressure regulator. Each plug has a white (-) and red (+) wire in addition to the colors listed on the illustration.

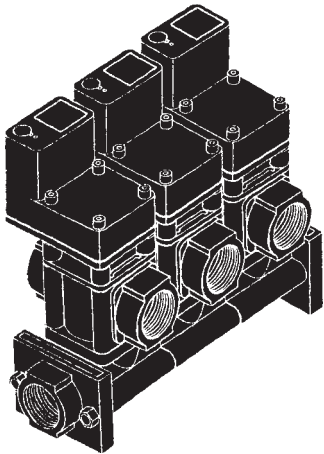
PART NO.	REPLACES	DESCRIPTION
76930	2463	25' cable with 5 plugs as shown
76931	2464	25' cable with 4 plugs
76932	2466	25' cable with 3 plugs
76933	2467	25' cable with 2 plugs

**Texas Industrial Remcor, Inc. 2400 Series 3-Way Motorized Valves**
**18 GPM, 150 PSI, 12 VOLT**

Series 2400 3-way valves have 1" or 1 1/2" NPT inlet and 1" NPT outlets. Only 5 PSI pressure drop at 18 GPM. Wetted parts are made of glass filled nylon and 303 stainless. Easy to replace Viton face seals. Totally enclosed motor with sealed connector, draws 1 amp max. Motor is protected by a self resetting fuse. Open and closing time .8 sec.

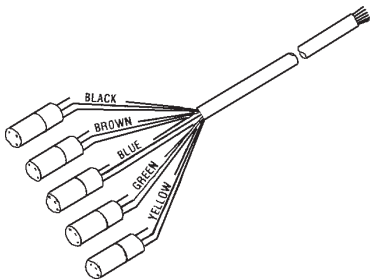


PART NO.	REPLACES	DESCRIPTION
76962	2401	The 2401 is a single valve with a 1" NPT bottom inlet and 1" NPT side outlets.



The 2403 valves are mounted on a stackable manifold, up to 5 sections. It can be assembled with 1" NPT or 1 1/2" NPT end plates on both ends or with a blank end plate on one end. Mounting holes are on the bottom of the end plate.

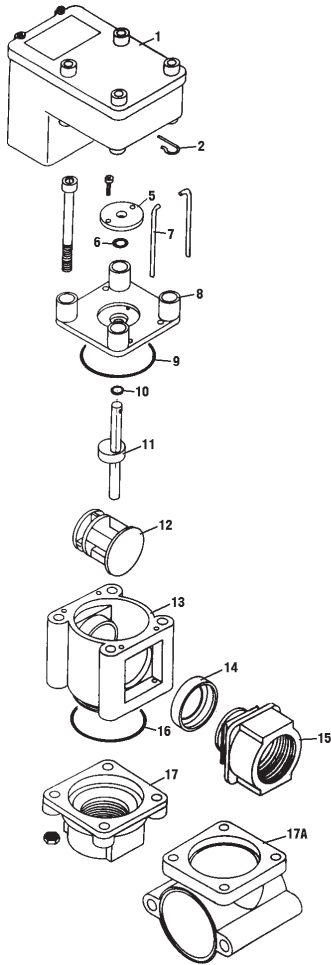
PART NO.	REPLACES	DESCRIPTION
76964	2403-1	Shutoff valve single
76965	2403-2	Shutoff valve double
76966	2403-3	Shutoff valve triple
76967	2403-4	Shutoff valve quadruple
76968	2403-5	Shutoff valve quintuple


**OPTIONAL EQUIPMENT**

Following 25' harnesses are available for 2, 3, 4, and 5 valve automatic spray rate controllers. These cables have a 1/8" OD tube for pressure sensing, but do not have wires for a pressure regulator. Each plug has a white (-) and red (+) wire in addition to the colors listed on the illustration.

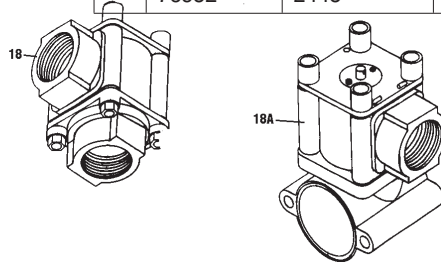
PART NO.	REPLACES	DESCRIPTION
76930	2463	25' cable with 5 plugs as shown
76931	2464	25' cable with 4 plugs
76932	2466	25' cable with 3 plugs
76933	2467	25' cable with 2 plugs

**Texas Industrial Remcor, Inc. 2400 Series 2 Way Valve Parts Breakdown**



**PARTS LIST**

REF.	PART NO.	REPLACES	DESCRIPTION	REQ.
1	76934	2427	Motor assembly	1
2	76935	2398	Cotter pin	1
5	76936	2367	Seal cover	1
*6	76937	2414	O-Ring, 108 Viton	1
7	76938	2416	Outlet pin	2
8	76939	2366	Valve cover	1
9	76940	2417	O-Ring, 030	1
10	76941	2418	Teflon washer	1
11	76942	2395	Cam shaft	1
12	76943	2370	Valve	1
13	76944	2449	Valve body	1
*14	76945	2389	Face seal	1
15	76946	2369	1" NPT outlet fitting	1
16	76947	2419	O-Ring, 030	1
17	76948	2262	1" NPT inlet fitting (2402)	1
17A	76949	2284	Manifold (2404)	1
18	76950	2448	Valve sub assembly item 3 thru 17 (2402)	
18A	76951	2450	Valve sub assembly item 3 thru 17 (2404)	
	76952	2445	Repair kit items marked*	

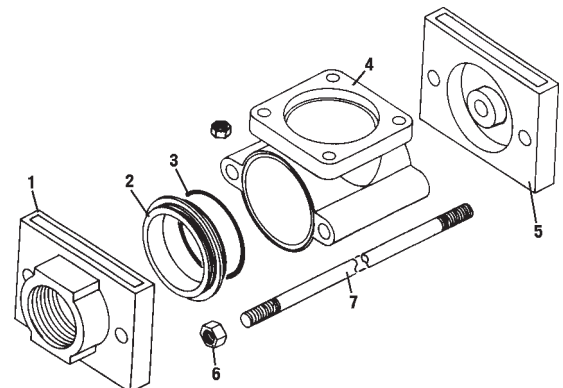


**Manifold Assemblies for 2404 Valves**

Manifold assemblies can be built with threaded end plates (1) on both ends. The blank end plate (5) can be drilled out and tapped for 1/8" NPT (R drill) or 1/4" NPT (7/16 drill). Do not overtighten the 5/16 - 18 hex nuts.

**PARTS LIST**

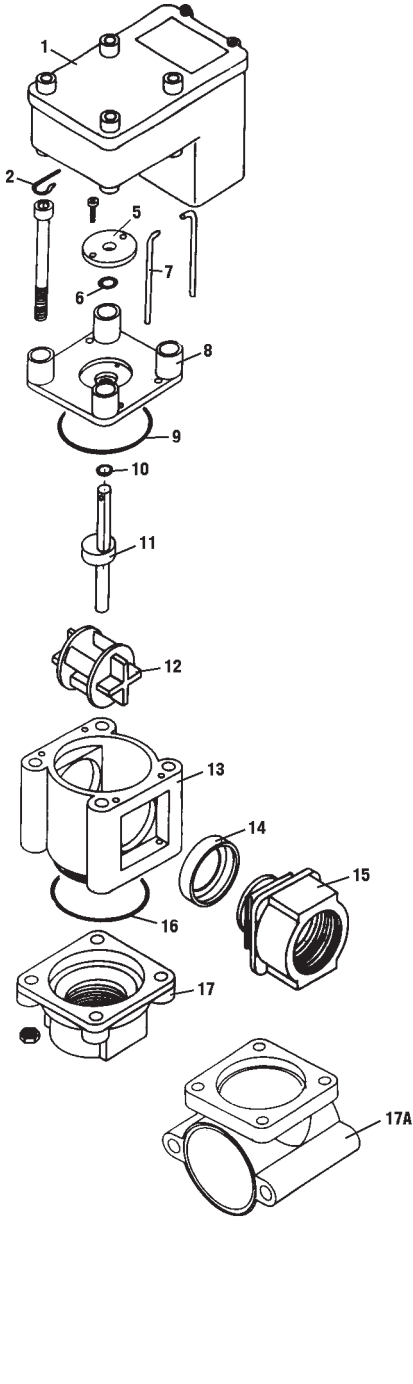
REF.	PART NO.	REPLACES	DESCRIPTION	REQ.
1	76953	2336	1" NPT end plate	1
2	76954	2338	Seal ring (1 valve assy)	2
2	76954	2338	Seal ring (2 valve assy)	3
2	76954	2338	Seal ring (3 valve assy)	4
2	76954	2338	Seal ring (4 valve assy)	5
2	76954	2338	Seal ring (5 valve assy)	6
3	76955	2438	O-ring, 029 (2 per seal ring)	-
4	76949	2284	Manifold (1 per valve)	-
5	76956	2337	Blank end plate	1
6			5/16 - 18 hex nut	4
7	76957	2439	5/16 - 18 x 4.00" rod (1 valve assy.)	2
7	76958	2440	5/16 - 18 x 6.40" rod (2 valve assy.)	2
7	76959	2441	5/16 - 18 x 8.75" rod (3 valve assy.)	2
7	76960	2442	5/16 - 18 x 11.20" rod (4 valve assy.)	2
7	76961	2443	5/16 - 18 x 13.50" rod (5 valve assy.)	2



**Texas Industrial Remcor, Inc. 2400 Series 3 Way Valve Parts Breakdown**

**PARTS LIST**

REF.	PART NO.	REPLACES	DESCRIPTION	REQ.
1	76934	2427	Motor assembly (2401)	1
1	76974	2428	Motor assembly (2403)	1
2	76935	2398	Cotter pin	1
5	76936	2367	Seal cover	1
*6	76937	2414	O-ring, 108 Viton	1
7	76938	2416	Outlet pin	4
8	76939	2366	Valve cover	1
9	76940	2417	O-ring, 030	1
10	76969	2330	Stainless steel washer	1
11	76970	2396	Cam shaft (2401)	1
11	76942	2395	Cam shaft (2403)	1
12	76971	2381	Valve	1
13	76972	2365	Valve body	1
*14	76945	2389	Face seal	2
15	76946	2369	1" NPT outlet fitting	2
16	76947	2419	O-ring, 030	1
17	76948	2262	1" NPT inlet fitting (2401)	1
17A	76949	2284	Manifold (2403)	1
18	76973	2446	Valve sub assembly item 3 thru 17 (2401)	
18A	76975	2451	Valve sub assembly item 3 thru 17 (2403)	
	76976	2447	Repair kit items marked *	

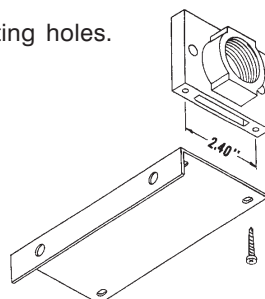


**FOR MANIFOLD ASSEMBLY SEE  
PAGE 2-27**

**M o u n t i n g**

Each end plate has two .170 dia x .75 deep mounting holes.  
Use 10 - 24 x 3/4 or no. 10 x 3/4 self-tapping screws.

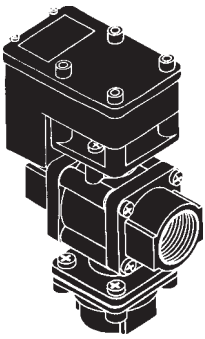
**SEE PAGE 2-30 FOR  
MOUNTING BRACKET PART NO.**



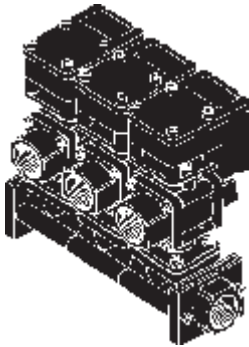
**Texas Industrial Remcor, Inc. 2700 Series 2 or 3 Way Electric Ball Valves**

**30 GPM, 200 PSI, 12 VOLT**

Series 2700 12-volt DC electric ball valves can be used for either 2 or 3-way applications. One outlet is plugged for 2-way applications -- for 3-way applications, the plug may be removed. Only 5 PSI pressure drop at 30 GPM. Wetted parts are made of glass filled nylon and 303 stainless steel. Equipped with Teflon shaft and ball seals. Totally enclosed motor with sealed connector, draws 2.5 Amp max. Motor is protected by a self resetting fuse. Open and closing time .8 sec.



PART NO.	REPLACES	DESCRIPTION
76977	2701	The 2701 is a single valve with a 1" NPT bottom inlet and 1" NPT side outlets.



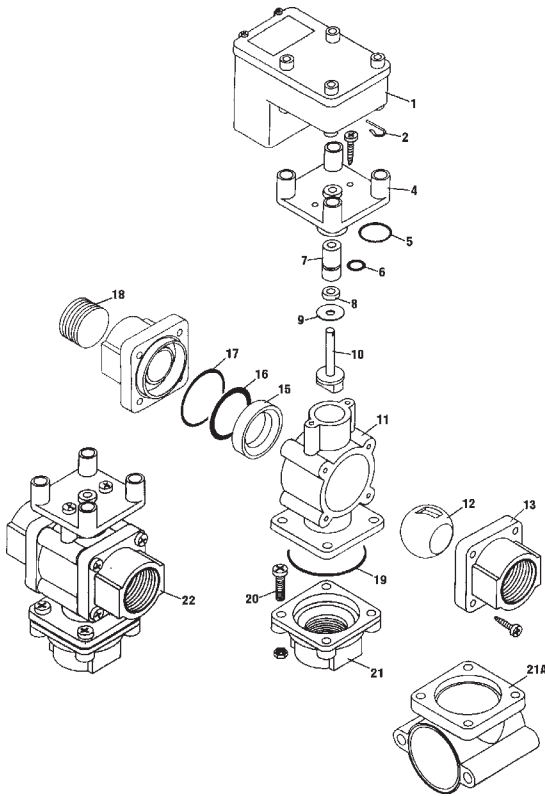
PART NO.	REPLACES	DESCRIPTION
76978	2702	The 2702 valves are mounted on a stackable manifold, up to 5 sections. The manifold can be assembled with 1" NPT or 1 1/2" NPT end plates on both ends or with a blank plate on one end. Outlets are 1" NPT. Mounting holes are on the bottom of the end plates

**2701 AND 2702 ELECTRIC BALL VALVE SPECIFICATIONS**

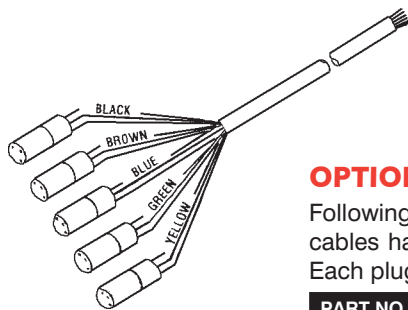
Valve Housing ..... Glass filled nylon  
 Wetted Metal Parts ..... 303 stainless steel  
 O-ring ..... Viton  
 Ball and shaft seals ..... Teflon  
 Motor ..... Totally enclosed, sealed  
 Terminals ..... Sealed 3 pin plug  
 Voltage ..... 12 volt DC  
 Current ..... 2 1/2 Amp at 12 Volt max.  
 Operating pressure ..... 200 PSI (1400 kPa) max.  
 Flow ..... 0-30 GPM (0-110 L/M) 13.4 cr.  
 Temperature ..... 120°F (50°C) max.  
*The valve is shipped as a 2 way valve by removing pipe plug (18).  
 It becomes a 3 way valve*

**#18 SEE PAGE 2-30**



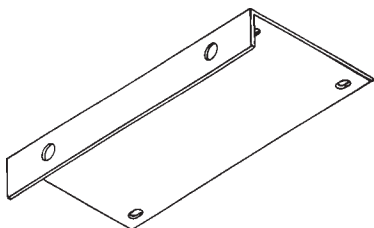
**Texas Industrial Remcor, Inc. 2700 Series Valve Parts Breakdown**

**PARTS LIST**

REF.	PART NO.	REPLACES	DESCRIPTION	REQ.
1	76979	2429	Motor assembly	1
2	76935	2398	Cotter pin	1
4	76980	2470	Valve top	1
5	76981	2526	O-ring 116	1
6	76982	2527	O-ring 012	1
7	76983	2524	Seal sleeve	1
8	76984	2535	Teflon shaft seal	1
9	76985	2523	Teflon washer	1
10	76986	2533	Ball driver and shaft	1
11	76987	2469	Valve body	1
*12	76988	2472	Ball	1
13	76989	2471	1" NPT outlet fitting	2
*15	76990	2519	Teflon seal	2
*16	76991	2528	O-ring 217	2
*17	76992	2529	O-ring 130	2
18	76993	2534	1" NPT pipe plug	1
19	76994	2531	O-ring 133	1
21	76948	2262	1" NPT inlet fitting (2701)	1
21A	76949	2284	Manifold (2702)	1
22	77121	2530	Valve sub assembly item 3 thru 21 (2701)	
22	76995	2525	Valve sub assembly item 3 thru 21 (2702)	
	76996	2532	Repair kit items marked *	


**OPTIONAL EQUIPMENT**

Following 25' harnesses are available for 2, 3, 4, and 5 valve automatic spray rate controllers. These cables have a 1/8" OD tube for pressure sensing, but do not have wires for a pressure regulator. Each plug has a white (-) and red (+) wire in addition to the colors listed on the illustration.

PART NO.	REPLACES	DESCRIPTION
76930	2463	25' cable with 5 plugs as shown
76931	2464	25' cable with 4 plugs
76932	2466	25' cable with 3 plugs
76933	2467	25' cable with 2 plugs



Valve mounting brackets are formed from 14 gauge stainless steel. Screws for attaching brackets to valve(s) are included.

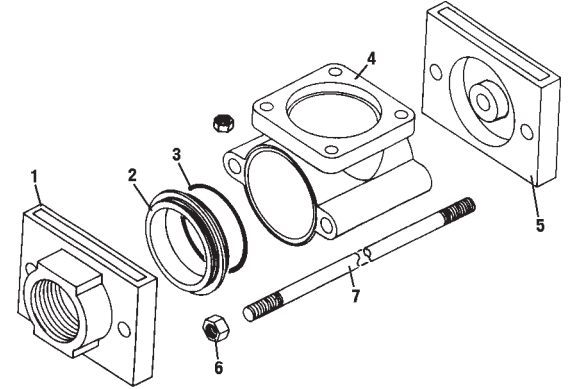
PART NO.	REPLACES	DESCRIPTION
76998	2452	Bracket for 1 valve
76999	2453	Bracket for 2 valves
77002	2454	Bracket for 3 valves
77003	2455	Bracket for 4 valves
77004	2456	Bracket for 5 valves

**Texas Industrial Remcor, Inc. Manifold Assemblies for 2700 Series Solenoid Valves**

Manifold assemblies can be built with threaded end plates (1) on both ends. The blank end plate (5) can be drilled out and tapped for 1/8" NPT (R drill) or 1/4" NPT (7/16" drill). Do not overtighten the 5/16 - 18 hex nuts.

**PARTS LIST**

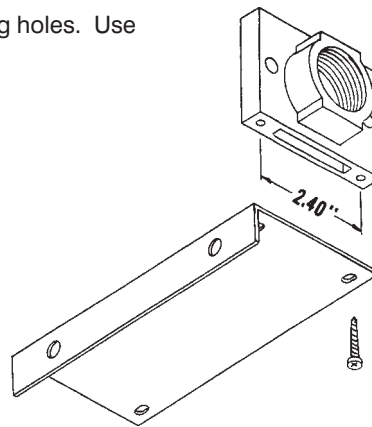
REF.	PART NO.	REPLACES	DESCRIPTION	REQ.
1	76997	2558	1 1/2" NPT end plate	1
1	76953	2336	1" NPT end plate	1
2	76954	2338	Seal ring (1 valve assy)	2
2	76954	2338	Seal ring (2 valve assy)	3
2	76954	2338	Seal ring (3 valve assy)	4
2	76954	2338	Seal ring (4 valve assy)	5
2	76954	2338	Seal ring (5 valve assy)	6
3	76955	2438	O-ring, 029 (2 per seal ring)	-
4	76949	2284	Manifold (one per valve)	-
5	76956	2337	Blank end plate	1
6			5/16 - 18 hex nut	4
7	76957	2439	5/16 - 18 x 4.00" rod (1 valve assy)	2
7	76958	2440	5/16 - 18 x 6.40" rod (2 valve assy)	2
7	76959	2441	5/16 - 18 x 8.75" rod (3 valve assy)	2
7	76960	2442	5/16 - 18 x 11.20" rod (4 valve assy)	2
7	76961	2443	5/16 - 18 x 13.50" rod (5 valve assy)	2



**M o u n t i n g**

Each end plate has two .170 dia. x .75 deep mounting holes. Use 10 - 24 x 3/4 or No. 10 x 3/4 self-tapping screws.

**SEE PAGE 2-30 FOR MOUNTING BRACKET PART NO.**



## TeeJet Electric Pressure Regulating Valves for Manual Control Systems



### AA244C-3/4

The TeeJet AA244C-3/4 butterfly valve provides remote pressure control and features a two-wire lead for use in 12 V DC system. Its quality design features good corrosion resistance, a low power consumption of 0.15 amp. and 3/4" NPT (F) connections

#### Features:

- Pressure drop of 5 PSI (0.35 bar) for 45 GPM (170 l/min) flow
- Maximum operating pressure is 100 PSI (7 bar)

PART NO.	DESCRIPTION
76846	Valve
76853	Repair kit

**PARTS BREAKDOWN SEE PAGES 2-37**

## Directo Valve 2-way Electric Control Ball Valves

### AA344AEC-2

Remote control Electric Ball Valves

- Works with a simple, single pole off/on switch
- No external fuses – incorporates an internal resettable fuse (disconnect power to valve for 20 seconds to reset)
- 5 PSI (0.35 bar) pressure drop for 32 GPM (121 l/min) flow
- Maximum pressure rating of 300 PSI (20 bar)



PART NO.	VALVE NO.	NUMBER OF OUTLETS	CONNECTION SIZE	RESPONSE TIME
76150	AA344AEC-2-3/4	1	3/4" NPT	3/4 sec.
79304	AA344AEC-2-1	1	1" NPT	3/4 sec.
78416	AA344AEC-2-1-SS	1	1" NPT	3/4 sec.

### AA344AE-2

Remote control Electric Ball Valves

- 3/4" or 1" NPT (F) connection
- Wetted parts: nylon, Teflon, polypropylene and Viton
- Works with double-pole double-throw system
- No external fuses – incorporates an internal resettable fuse (disconnect power to valve for 20 seconds to reset)
- 5 PSI (0.35 bar) pressure drop for 32 GPM (121 l/min) flow
- Maximum pressure rating of 300 PSI (20 bar)



PART NO.	VALVE NO.	NUMBER OF OUTLETS	CONNECTION SIZE	RESPONSE TIME
76153	AA344AE-2-3/4	1	3/4" NPT	3/4 sec.
79235	AA344AE-2-1	1	1" NPT	3/4 sec.

**FOR MORE CONTROL VALVES SEE PAGE 2-10**

**PARTS BREAKDOWN SEE PAGE 2-35 AND 2-36**

**TeeJet Directo Valve 3-Way Electric Bypass Control Ball Valves**

**AA344AEC-3**

Remote control Electric Ball Valves

- Works with a simple, single pole off/on switch
- No external fuses – incorporates an internal resettable fuse (disconnect power to valve for 20 seconds to reset)
- 5 PSI (0.35 bar) pressure drop for 24 GPM (91 l/min) flow
- Maximum pressure rating of 300 PSI (20 bar)



PART NO.	VALVE NO.	NUMBER OF OUTLETS	CONNECTION SIZE	RESPONSE TIME
76154	AA344AEC-3-3/4	2	3/4" NPT	3/4 sec.
76149	AA344AEC-3-1	2	1" NPT	3/4 sec.

**AA344AE-3**

Remote control Electric Ball Valves

- 3/4" or 1" NPT (F) connection
- Wetted parts: nylon, Teflon, polypropylene and Viton
- Works with double-pole double-throw system
- No external fuses – incorporates an internal resettable fuse (disconnect power to valve for 20 seconds to reset)
- 1 amp power consumption
- 5 PSI (0.35 bar) pressure drop for 24 GPM (91 l/min) flow
- Maximum pressure rating of 300 PSI (20 bar)



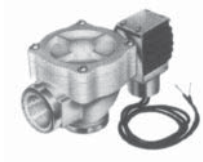
PART NO.	VALVE NO.	NUMBER OF OUTLETS	CONNECTION SIZE	RESPONSE TIME
76155	AA344AE-3-3/4	2	3/4" NPT	3/4 sec.
76156	AA344AE-3-1	2	1" NPT	3/4 sec.

**PARTS BREAKDOWN SEE PAGE 2-35 AND 2-36**

**H y p r o S o l e n o i d V a l v e s**

PART NO.	REPLACES	DESCRIPTION
76750	2525-0007	1 unit nylon valve, 3/4" ports (22 gpm)
76751	3430-0153	Repair kit for 2525-007

- Valve body: glass reinforced nylon
- Pressure rating: 100 PSI
- Diaphragm: Teflon/Fiberglass
- Coil: 12V DC 15 Watts
- Fluid temperature: 120°F



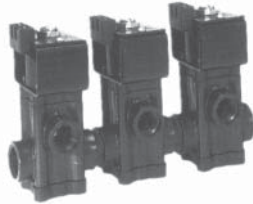
## TeeJet DirectoValve Electrically Operated Valves

### 144A VALVE FOR PRESSURE UP TO 100 PSI

- 10 GPM flow with only 5 psi pressure drop
- Can be ganged with 144 and 144H DirectoValve control valves.
- 2 amp current draw
- Polypropylene body for chemical resistance
- Fabric reinforced diaphragms for longer service life.

### 145H CONTROL VALVE

- Pressure up to 100 PSI
- 2.9 amp draw
- 15 GPM flow
- Fiberglass reinforced nylon body



### 146 CONTROL VALVE

- for pressure to 65 PSI
- 4 amp current draw
- 35 GPM flow with 5 PSI pressure drop
- Fiberglass reinforced nylon body

### 144A-,145H- & 146-DIRECTOVALVE CONTROL VALVES

- Direct acting; large internal flow chamber without pilot hole reduces chance of clogging.
- Stainless steel wetted parts provide additional corrosion resistance.
- Operate on 12 volt DC system.
- Encapsulated solenoid coil can be changed without removing valve from system.
- EPDM diaphragms and seat washers, Viton optional.
- Continuous flow through bypass connection, with flow to spray line controlled by valve "on-off" action.



**PARTS BREAKDOWN SEE PAGE 2-39, 2-40, 2-41**

PART NO.	REPLACES NO.	DESCRIPTION	SPRAY LINE CONN. NPT	CONT. FLOW INLET BY-PASS CONN. NPT	MAX PSI	CURRENT DRAW	CAPACITY
76710	AA144A-1	1 unit valve	1/2"	3/4"	100	2 amp	10 gpm
76711	AA144A-2	2 unit valve	1/2"	3/4"	100	2 amp	20 gpm
76712	AA144A-3	3 unit valve	1/2"	3/4"	100	2 amp	30 gpm
76778	AA145H-1	1 unit valve	1"	1"	100	2.9 amp	15 gpm
76716	AA146-1	1 unit valve	1"	1 1/4"	65	4 amp	35 gpm
76715	AA146-1 1/4	1 unit valve	1 1/4"	1 1/4"	65	4 amp	35 gpm
76722	PK-AB144A-1-kitRepair kit AA144A Series						
74213	PK-AB145H-kitRepair kit AA145-H Series						
74210	PK-AB146-kitRepair kit AA146 Series						

## AA144P DirectoValve Control Valves



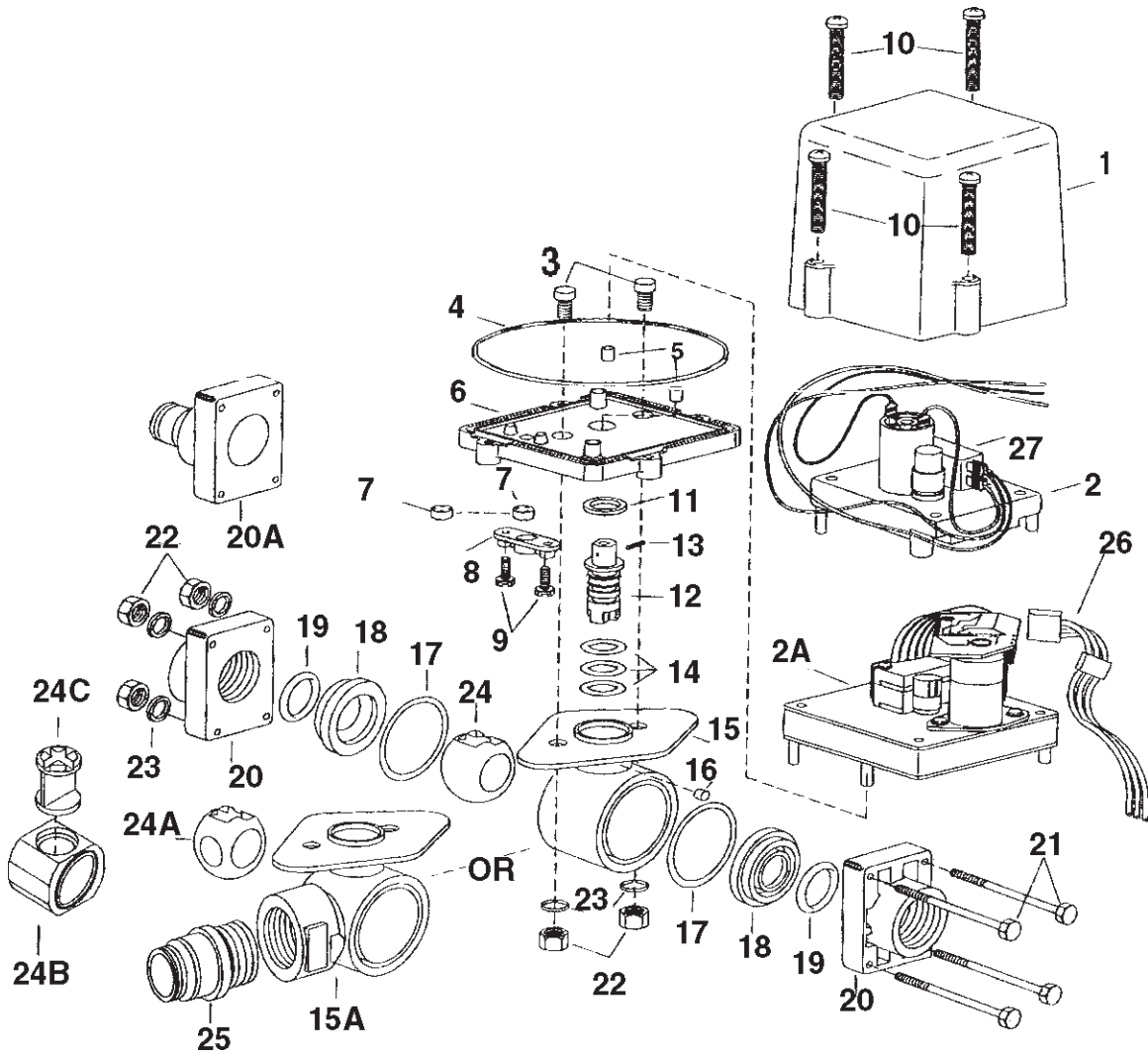
- 10 gpm (37.9 l/min) flow with only 5 PSI (0.35 bar) pressure drop
- 2.5 amp current draw
- Polypropylene body for chemical resistance
- Fabric reinforced Viton diaphragms
- No stroke adjustment required
- Corrosion-resistant. 430SS solenoid grade armature and armature stop
- Encapsulated coil and magnetic circuit

PART NO.	MODEL NO.	INLET SIZE	OUTLET SIZE	FLOW RATE AT 5 PSI PRESSURE DROP	MAXIMUM PRESSURE	CURRENT DRAW
76709	AA144P-1	3/4"	1/2"	10 gpm	100 psi	2.5 amp
77893	AA144P-2	3/4"	1/2"	10 gpm	100 psi	2.5 amp
77894	AA144P-3	3/4"	1/2"	10 gpm	100 psi	2.5 amp

**AA144P-1**

**SPP 76709**

**TeeJet Electric Valves Replacement Parts**



**BREAKDOWN FOR VALVE PART NUMBERS 76149, 76150, 76153, 76154, 76155, 76156, 77568, 77569, 77570, 77571, 77572, 77573, 79235 AND 79304**

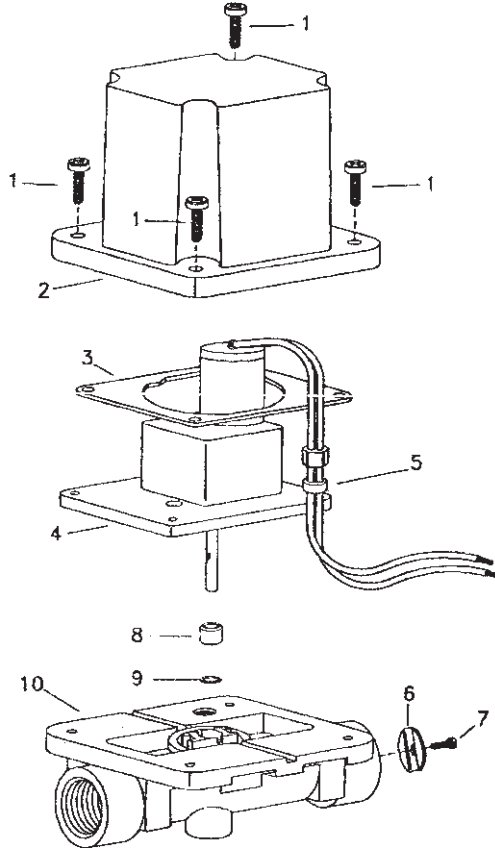
## TeeJet Electric Valves Parts BreakDown

REF. NO.	PART NO.	REPLACES	DESCRIPTION	76150	79304	76154	76149	77568	77569	77571	77570	77573	77572	76153	79235	76155	76156
1	77581	CP20113-PP	Cover	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2	77582	20122-1-SS	Motor Sub Assy											✓	✓	✓	✓
2	77583	22257	Motor Sub Assy					✓	✓								
2	77584	22257-4	Motor Sub Assy							✓	✓						
2	77585	22257-47	Motor Sub Assy									✓	✓				
2A	77586	20122-3-SS	Motor Sub Assy	✓	✓	✓	✓										
3		20127-SS	Stud	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4	77587	CP7717-2-155/40EPR	O-Ring	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5	77588	CP20124-NEO	Motor Mount	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6	77589	CP20111-NYB	Mount Plate	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7	77590	CP22158-3-EPR	Grommet	✓	✓	✓	✓							✓	✓	✓	✓
7	77591	CP22158-2-EPR	Grommet					✓	✓	✓	✓	✓	✓				
8	77592	CP22157-NYB	Retainer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
9		CP20123-3/4-430SS	Screw	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10		CP38036-1-1/4-430SS	Screw	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
11*	77593	CP20125-TEF	Washer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
12	77594	CP26250-1-SS	Stem	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓
12	77595	CP26250-NYB	Stem									✓	✓				
13	77596	CP23477-420SS	Pin	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
14*	77597	CP7717-M12x25-VI	O-Ring	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
15	77598	CP20101-NYB	Body	✓	✓			✓	✓			✓	✓	✓	✓		
15A	77599	CP20102-3/4-NYB	3/4" Body			✓			✓							✓	
15A	77469	CP20102-1-NYB	1" Body				✓				✓						✓
16*	77474	CP20126-FELT	Dust Plug	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
17*	77475	CP20564-VI	Gasket	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
18*	77476	CP20103-TEF	Seal	✓	✓	✓	✓	✓	✓	✓	✓	NA	NA	✓	✓	✓	✓
19*	77448	CP7717-2/213-VI	O-Ring	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓
19	77449	CP7717-2/021-VI	O-Ring									✓	✓				
20	77450	CP20104-3/4-NYB	3/4" End Cap	✓		✓		✓	✓			✓		✓		✓	
20	77451	CP20104-1-NYB	1" End Cap		✓		✓		✓		✓		✓		✓		✓
20A	74452	CP45514-NYB	End Cap Quick Connect	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
21		CP20129-SS	Screw	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
22		CP8535-SS	Nut	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
23		CP20128-SS	Lockwasher	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
24	77453	CP20106-1-PP	Ball	✓	✓									✓	✓		
24	77454	CP22259-1-PP	Ball					✓	✓								
24	77455	CP23483-1-PP	Ball							✓	✓						
24A	77456	CP20109-1-PP	Ball			✓	✓									✓	✓
24B	77459	CP46167-NYB	Body Insert									✓	✓				
24C	77435	CP46168-NYB	Butterfly									✓	✓				
25	77436	CP45526-NYB	1" Nipple X QC		✓		✓		✓		✓				✓		✓
26	77437	46541	Control Harness	✓	✓	✓	✓										
26	77438	46541-2	Control Harness							✓	✓						
27	79236	CP22872-PHE	Limit Switch	✓	✓	✓	✓	✓	✓	✓	✓	NA	NA	✓	✓	✓	✓
NS*	77439	AB344AE-KIT	Repair Kit	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓
NS**	77403	AB344AE-2RB-KIT	Repair Kit									✓	✓				

\* Includes all items marked with \*

\*\* Includes Ref # 11,12,14,17,19,24B and 24C

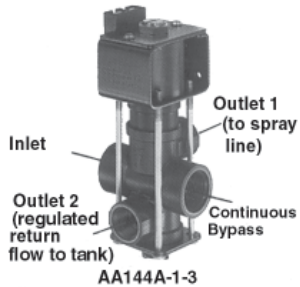
**TeeJet Parts Breakdown for Valve No. 76846**



REF.	PART NO.	REPLACES NO.	DESCRIPTION
1		CP38036-5/8-430SS	Screw, stainless steel (4 req'd)
2	77574	CP38028-PP	Cover, Polypropylene (Black)
3*	77575	CP38031-EPR	Gasket, EPDM Rubber
4	77576	38033	12VDC Vertical motor & strain relief sub-assembly
5		CP38029-2-EPR	Grommet, EPDM Rubber
6	77577	CP38039-SS	Butterfly, Stainless steel
7		CP38034-5/16-SS	Machine Screw, Stainless Steel
8	77578	CP38077-NY	Washer, Nylon
9*	77579	CP7717-2/106-VI	O-ring, Viton
10	77580	CP38038-NYB	Body, Nylon (Black) NPT Conn.
	76853	PK-AB244C-KIT	Spare Parts Kit (includes all items marked with *)



## TeeJet DirectoValve Solenoid Valves



AA144A-1-3

AA144A-3-3  
(Three Unit)

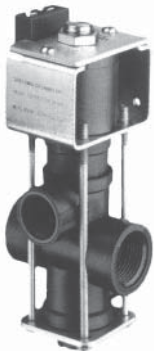
### AUTOMATICALLY MAINTAINS SYSTEM PRESSURE

The three-way solenoid-operated DirectoValve control valve bypasses boom flow to maintain constant spraying pressure when one or more boom sections are shut off. To maintain pressure with a 23520 Throttling Valve, Outlet 2 must be throttled to match the total capacity of the nozzles on that boom section.

- For pressures to 65 PSI (4.5 bar).
- 8 GPM (30 l/min) flow at only 5 PSI (0.34 bar) pressure drop
- 2.5 amp current draw
- Encapsulated 12VDC coil can be easily changed without removing valve from line
- Polypropylene body for chemical resistance.
- Stainless steel internal metal parts
- Chemical-resistant EPDM diaphragms and seat washers.

**NOTE: THROTTLING VALVE NOT INCLUDED  
23520 SEE PAGE 2-85**

PART NO.	MODEL NO.	NO. OF UNITS IN ASSEMBLY	SPRAY LINE CONNECTION	CONTINUOUS FLOW INLET BYPASS CONNECTION
77895	AA144A-1-3	1	½"	¾"
77896	AA144A-2-3	2	½"	¾"
77897	AA144A-3-3	3	½"	¾"



### TEEJET AA144F-1-3

#### DIRECTOVALVE SOLENOID VALVE FOR FOAM MARKERS

The 144F-1-3 three-way operated DirectoValve was designed for use with foam markers. With electrical power off, flow to outlet 1 is stopped and liquid flows to outlet 2. With electrical power on, flow to outlet 2 is stopped and liquid flows to outlet 1.

#### FEATURES:

- Operating pressure range 0-50 PSI (0-3.5 bar)
- Large flow capacities, 5 PSI (0.35 bar) pressure drop with 8 gpm (30 l/min) flow
- Nylon encapsulated 12 V DC coil with ¼" quick connect terminals
- Glass-filled polypropylene (black) valve body
- Internal metal parts are made of brass, fasteners are made of stainless steel, other metal parts are zinc-plated
- Chemical-resistant EPDM rubber seat washer and diaphragm

PART NO.	REPAIR KIT
76777	74981



PART NO.
74999

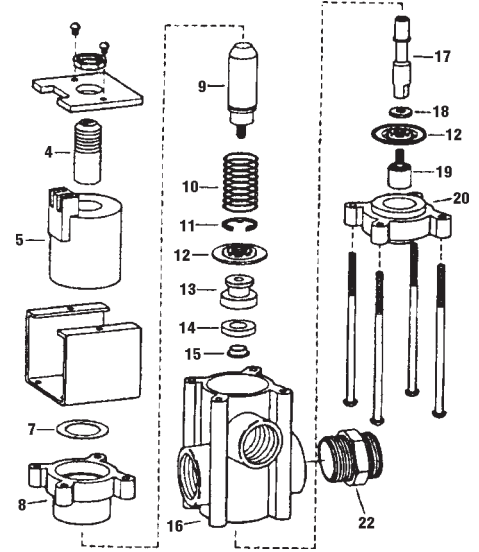
### AA144P-1-3 DIRECTOVALVE CONTROL VALVES

The 144P-1-3 three-way solenoid-operated DirectoValve control was specifically designed to provide bypass control in spraying applications. When used with part number 23520-PP throttling valve or a 4916 metering orifice plate in the bypass line, it can provide for a constant pressure spray system.

- For pressure to 65 PSI (4.5 bar)
- 5 PSI (0.34 bar) pressure drop with 8 GPM (30 l/min) flow
- Fabric reinforced Viton® diaphragms
- Nylon encapsulated 12V DC coil with ¼" Quick Connect terminals... power requirement 2.5 amp
- Glass-filled polypropylene (black) valve body
- Internal metal parts are stainless steel
- No stroke adjustment needed
- Corrosion-resistant, 430SS solenoid grade armature and armature stop

**TeeJet AA144A Directo Valve Series Parts List**

REF.	PART NO.	REPLACES	DESCRIPTION
4	76723	CP1516-1	Armature stop
5	76724	CP15163-NYB	Coil assembly
7	76725	CP15169-SS	Washer
8	76726	CP15164-NYB	Upper diaphragm housing
9	76727	CP15170-IENP	Armature
*10	Available in kit only		
11	76728	CP14183-1-IENP	Retaining ring
*12	Available in kit only		
13	76729	CP14807-SS	Seat washer
*14	Available in kit only		
15	76730	CP14811-SS	Spacer
16	72538	CP14801-PP	Body, polypropylene
17	76731	CP14812-SS	Stem, stainless steel
18	74436	CP14806-SS	Washer, stainless steel
19	76732	CP15162-SS	Lower diaphragm piston
20	76733	CP15165-NYB	Lower diaphragm housing
22	73242	CP21737-NYB	Connecting nipple 3/4"
	76722	PK-AB144A-1-KIT	Standard repair kit marked*
	74969	PK-AB144A-1-VI-KIT	Viton Repair Kit

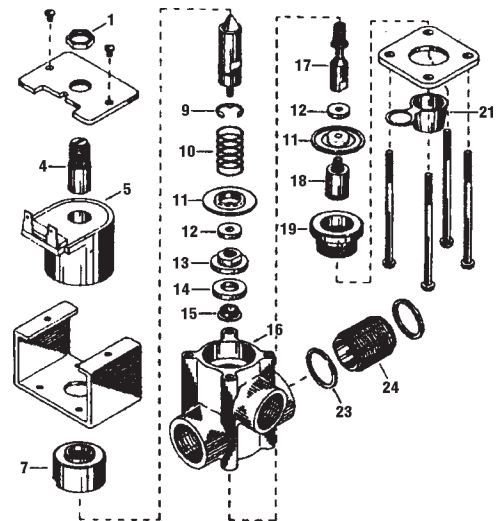


**Repair Parts List for AA144 Series Valve**

**(COMPLETE VALVES NO LONGER AVAILABLE)**

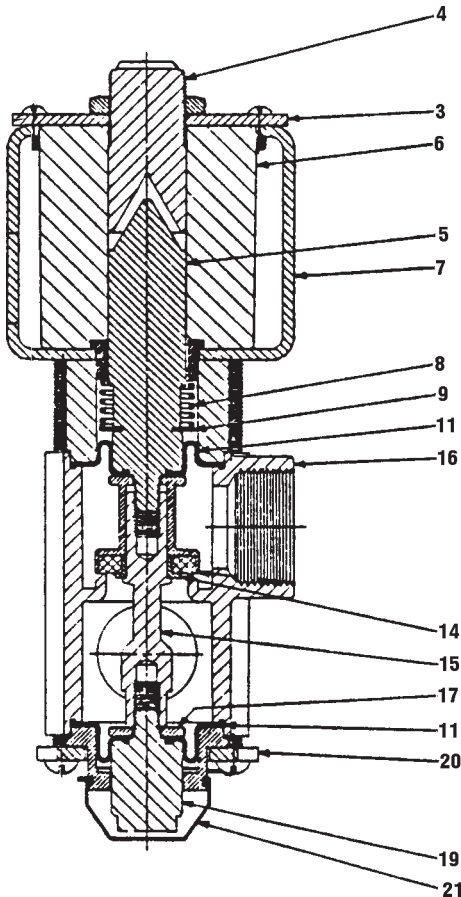
*Important Note: Parts listed in this section are for the AA144 Series valves manufactured prior to the summer of 1992. Parts in this section will not work in the AA144-A valves shown above*

REF.	PART NO.	REPLACES	DESCRIPTION
1	74434	CP14814-IENP	Jam nut
4	76734	CP14809-IENP	Armature stop
5	76717	CP14810-NY	12 Volt coil assembly
7	76735	CP14816-IENP	Upper diaphragm housing
9	76728	CP14813-IENP	Retainer ring
*10	Available in kit only		spring
*11	Available in kit only		Diaphragm, EPDM rubber
12	74436	CP14806-SS	Washer (2 required)
13	76729	CP14807-SS	Seat washer retainer
*14	Available in kit only		Seat washer
15	76730	CP14811-SS	Spacer
16	72538	CP14801-PP	Body
17	76731	CP14812-SS	Stem
18	76721	CP14817-SS	Lower diaphragm piston
19	76720	CP-14808-SS	Lower diaphragm housing
*21	Available in kit only		Boot, EPDM rubber
23	76324	CP8432-BU	Gasket (for 144-2 & 3)
24	73242	CP8343-NYB	Close nipple (for 144-2 & 3)
	76718	PK-AB-144-1 KIT	Repair kit marked *
	74968	PK-AB144-1-VI-KIT	Viton Repair Kit



## TeeJet AA145 Directo Valve Parts List

### COMPLETE VALVE NOT AVAILABLE PARTS ONLY



REF.	PART NO.	REPLACES	DESCRIPTION
3	76758	CP18603-1	Coil cover, steel-epoxy painted
4	76759	CP18618-1ENP	Armature stop, steel-electroless nickel plated.
5	76760	CP18606-1ENP	Armature, steel-electroless nickel plated
6	76761	CP18605-NYB	Coil assembly, polyester encapsulated
7	76762	CP18604-1	Strap sub-assembly, steel-epoxy painted
9	76743	CP15723-1ENP	Retaining ring, steel-electroless nickel plated
11	76764	CP18621-EPR	Diaphragm, EPDM rubber (2 required) standard
13	76766	CP18611-EPR	Seat washer, EPDM rubber (standard)
14	76767	CP18612-SS	Spacer, stainless steel
15	76768	CP18613-SS	Stem, stainless steel
16	76769	CP18601-3/4-NYB	Body, nylon (black) for (145-3/4) Directo Valve
16	76770	CP18601-1-NYB	Body, nylon (black) for (145-1) Directo Valve
17	76771	CP18609-SS	Washer, stainless steel
19	76773	CP18617-SS	Lower diaphragm piston, steel-electroless nickel plated
20	76774	CP18615-1	Bottom plate, steel-epoxy painted
21	76775	CP18622-EPR	Boot, EPDM rubber
	73242		Connecting Nipple 3/4"
	73245		Connecting Nipple 1"

### AA146 DIRECTOVALVE PARTS LIST

REF.	PART NO.	REPLACES	DESCRIPTION
3	76737	CP15704-1	Coil cover
4	76738	CP15721-1ENP	Armature stop
5	76739	CP15707-1ENP	Armature
6	76740	CP15706-1-PYR	Coil Assembly
7	76741	CP15726-1P	Sub assembly
8	76742	CP15709-302SS	Spring
9	76743	CP15723-1ENP	Retainer ring
10	76744	CP15708-CE	Upper housing
11	76745	CP15724-R	Diaphragm
12	76746	CP15714-R	Seat washer
14	76747	CP15715-SS	Spacer
15	76748	CP15716-SS	Stem
16	76749	CP15701-1-NYB	Body 146-1
16	76752	CP15701-1-1/4-NYB	Body 146-1 1/4
17	76759	CP15712-SS	Washer
18	76754	CP15717-CE	Lower housing
19	76755	CP15720-1ENP	Piston
20	76756	CP15718-1P	Bottom plate
21	76757	CP15722-R	Boot
	73248		Connecting nipple 1 1/4"
	73245		Connecting nipple 1"

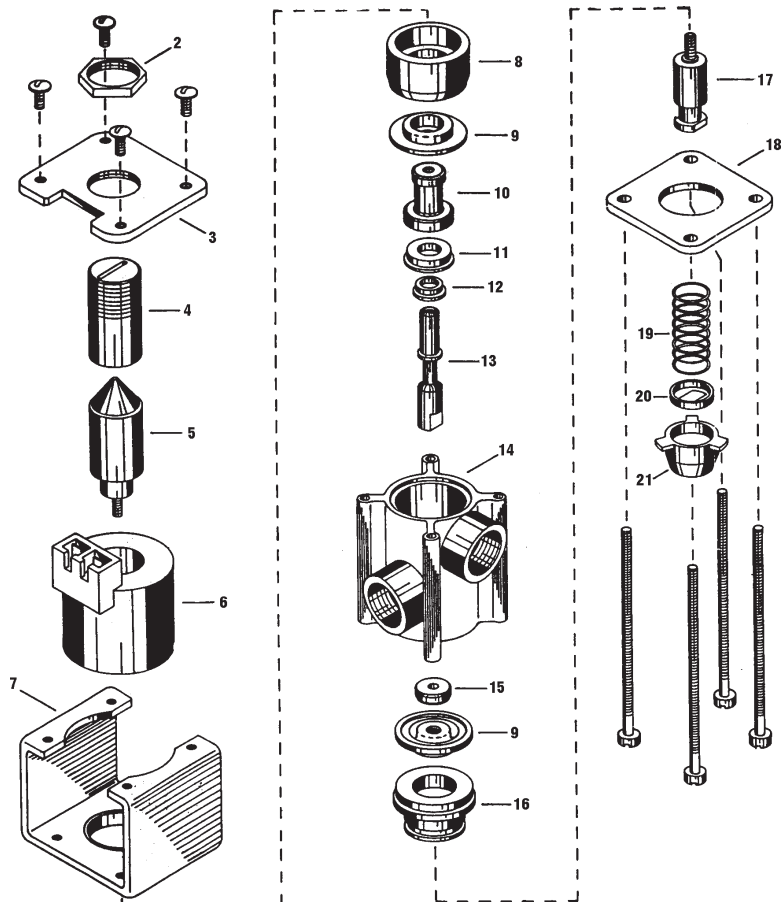
### AA145H Directo Valve Repair Kit

PART NO.	REPLACES	
74213	PK-AB-145H-KIT	Spring not included
74997	AB145H-KIT	Viton Repair Kit Spring not included

### AA146 Directo Valve Repair Kit

PART NO.	REPLACES
74210	PK-AB146-KIT

**TeeJet AA145H-1 Directo Valve Parts List**



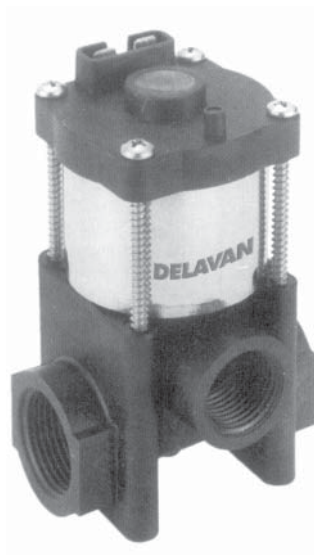
REF	PART NO.	REPLACES	DESCRIPTION
2	76795	CP18602-IENP	Jam nut., steel-electroless nickel plated
3	76758	CP18603-1-I	Coil cover, steel-epoxy painted
4	76759	CP18618-IENP	Armature stop, steel-electroless nickel plated
5	76760	CP18606-IENP	Armature, steel-electroless nickel plated
6	76761	CP18605-NYB	Coil assembly, nylon encapsulated (black)
7	77122	CP18623-1-I	Strap sub-assembly, steel-epoxy painted
8	77123	CP18607-NYB	Upper diaphragm housing, celcon (black)
9*	76764	CP18621-EPR	Diaphragm, EPDM rubber (2 req'd) standard
10	76796	CP18610-SS	Seat washer retainer, stainless steel
11*	76766	CP18611-EPR	Seat washer, EPDM rubber (standard)
12	76767	CP18612-SS	Spacer, stainless steel
13	76768	CP18613-SS	Stem, stainless steel
14	76770	CP18601-1-NYB	Body, nylon (black)
15	76771	CP18609-SS	Washer, stainless steel
16	76798	CP18614-1-CE	Lower diaphragm housing, celcon (black)
17	76773	CP18617-SS	Lower diaphragm piston, stainless steel
18	76774	CP18615-1-I	Bottom plate, steel-epoxy painted
19	76797	CP25831-302SS	Spring, type 302 stainless steel (Not in 74213 kit)
20	76799	CP18620-304SS	Spring retainer, type 304 stainless steel
21*	76775	CP18622-EPR	Boot, EPDM rubber
	74213	PK-AB-145H-KIT	Spare parts kit (includes all items marked with *)
	74997	AB-145H-KIT	Viton Repair Kit

## Delavan Del-A-Valve

- Valve housing is made of glass filled nylon
- Wetted metal parts are 430 Stainless Steel
- Seal and O-Rings are made of glass filled nylon
- Coil is epoxy encapsulated
- Terminals have 1/4" male tabs
- Voltage is 12 volt DC
- Current is 1.7 amp at 12 volt
- Operating pressure is 100 PSI maximum
- Flow is 0-10 GPM
- Temperature is 120°F maximum

### Features

- Chemical resistant material - viton, SS, high strength G.F. nylon
- Low current draw - 1.7 amp at 12 volt



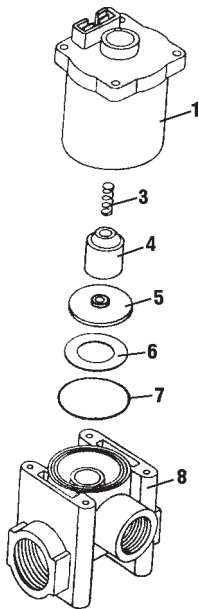
- Low pressure drop - 5 psi at 10 gpm
- pressure rating of 100 PSI
- 3/4" inlet, 1/2" outlet

### Benefits

- No diaphragms
- Direct acting
- Simple few moving parts
- Will operate on/off without flow through the valve
- Easy to repair

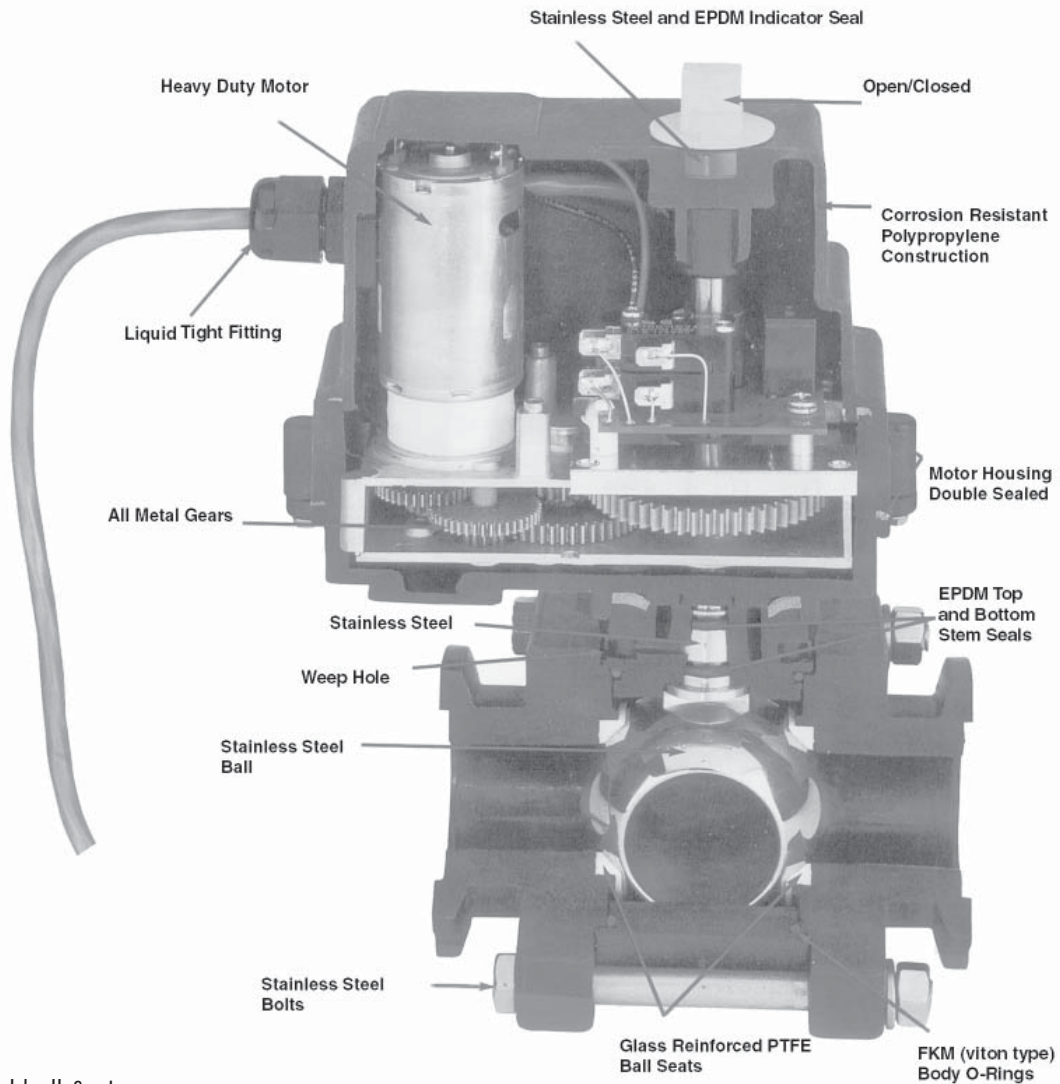
PART NO.

76249



REF	PART NO.	REPLACES	DESCRIPTION
1	76912	51430	Coil
3	76913	51432	Spring
4	76920	51433	Plunger
5	76915	51434	Disc valve viton
6	76916	51435	Washer
7	76885	31352-28	O-ring, 028 Viton
8	79917	51436	Valve body

**Banjo Electric Ball Valve**



**FEATURES**

- 316 stainless steel ball & stem
- Fiberglass reinforced polypropylene
- Glass reinforced PTFE seats
- FKM (viton type) Body O-Rings
- 12-volt DC operated
- 150 PSI maximum pressure
- Internally fused/automatic reset.

## B a n j o E l e c t r i c V a l v e s

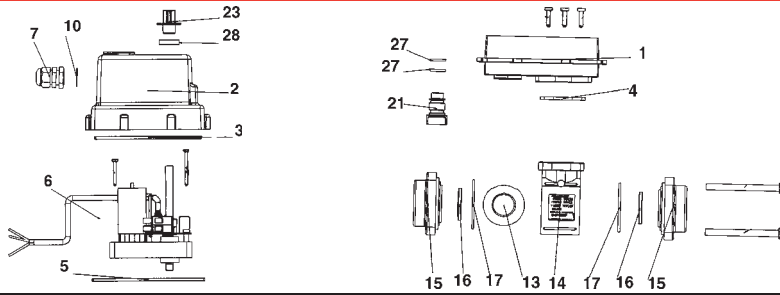
### FEATURES

- 316 stainless steel ball & stem
- Fiberglass reinforced polypropylene
- Teflon seats
- Viton O-Rings
- Excellent chemical resistance
- ¾ and 1 ¼ second response time
- 12 volt DC operated
- 150 PSI maximum pressure
- Internally fused/automatic reset

PART NO.	REPLACES	DESCRIPTION	MAX. PSI	PIPE SIZE	OPENING THRU BALL	RESPONSE TIME
76098	VE075	¾" electric valve	150	¾"	¾"	¾ sec.
76099	VE100FP	1" electric valve	150	1"	1"	¾ sec.
76112	VE125	1 ¼" electric valve	150	1 ¼"	1"	¾ sec.
76113	VE150	1 ½" electric valve	150	1 ½"	1 ½"	1 ¼ sec.
77898	VE200	2" electric valve	150	2"	1 ½"	1 ¼ sec.
76114	VE204FP	2" electric valve	150	2"	2"	1 ¼ sec.
77899	VER075	¾" electric valve	150	¾"	1"	4 sec.
77900	VER100FP	1" electric valve	150	1"	1"	4 sec.
77901	VER125	1 ¼" electric valve	150	1 ¼"	1"	4 sec.
77902	VER150	1 ½" electric valve	150	1 ½"	1 ½"	4 sec.
77903	VER200	2" electric valve	150	2"	1 ½"	4 sec.
77904	VER204FP	2" electric valve	150	2"	2"	4 sec.



**Banjo Electric Ball Valve Replacement Parts**



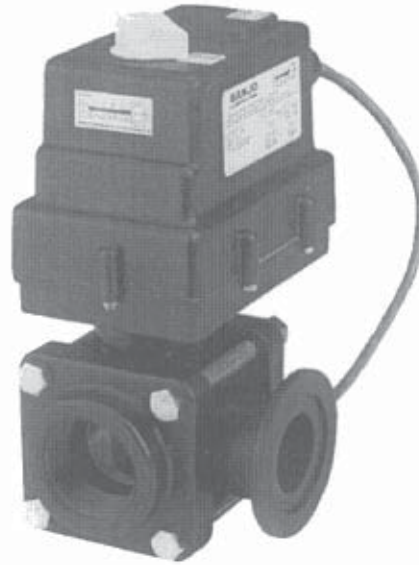
REF. NO.	PART NO.	REPLACES	DESCRIPTION	VE075	VE100FP	VE125	VE150	VE200	VE204FP	VER075	VER100FP	VER125	VER150	VER200	VER204FP
1	77905	VE25101	Poly Housing for Electric Valve	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2	77906	VE25102A	Housing Top for VE Actuator	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3	77907	VE114*	Large Inner Gasket	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4	76159	VE105*	Electric Valve Mounting Gasket	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5	77908	VE116*	Large Out Gasket for Electric Valves	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6	76164	VE4274	¾ Sec 3 Wire On/Off Motor	✓	✓	✓									
6	77909	VE4097	4 Sec 4 Wire Regulating Motor Assy							✓	✓	✓			
6	77910	VE4589	1¼ Sec High Torque On/Off Motor				✓	✓	✓						
6	77911	VE4708	4 Sec 12V High Torque Mtr Assy										✓	✓	✓
7	76161	VE3448	Weather Tight Fitting	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10	76162	V20060	Gasket	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
13	76116	VE10155SSH	1" Electric SS Hollow Ball	✓	✓	✓				✓	✓	✓			
13	77912	VE20255SS	2" VE Ball 316SS				✓	✓					✓	✓	
13	77913	VE25255SS	2"FP VE Ball 316SS						✓						✓
14	76115	VE10254B	VE Weephole Body- ¾ to 1¼"	✓	✓	✓				✓	✓	✓			
14	77914	VE20254A	VE Body 1½ to 2" Weep Hole				✓	✓					✓	✓	
14	77915	VE25254A	VE Body 2"FP With Weep Hole						✓						✓
15	76119	VE07357	¾" Electric Valve End Plate	✓						✓					
15	76157	VE10257	1" End Plate for Electric Valve		✓						✓				
15	76158	VE10256	1¼" Electric Valve End Plate			✓						✓			
15	77916	VE20256	2" Threaded End Plate					✓						✓	
15	77917	VE20257	1½" Threaded End Plate				✓						✓		
15	77918	VE25356	2" End Plate for Electric Valve						✓						✓
16	76118	VE10258*	Ball Seat for Electric Valve	✓	✓	✓				✓	✓	✓			
16	77919	VE20258*	1½" & 2" Electric Valve Ball Seat				✓	✓					✓	✓	
16	77933	VE25258*	2" FP Electric Valve Ball Seat						✓						✓
17	76117	VE10264*	1" Body O-Ring #139 FKM (viton type)	✓	✓	✓				✓	✓	✓			
17	77934	VE10264E	1" Body O-Ring EPDM	✓	✓	✓				✓	✓	✓			
17	77935	VE20264*	2" Valve Body O-Ring FKM (viton type)				✓	✓					✓	✓	
17	77936	VE20264E	2" Valve Body O-Ring EPDM				✓	✓					✓	✓	
17	77937	V25264	Valve Body O-Ring FKM (viton type)						✓						✓
17	77938	V25264EP	Valve Body O-Ring EPDM						✓						✓
21	76160	VE10151BSS	1" FP VE Weep Hole Stem 316SS	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	
21	77939	VE25151ASS	2" FP VE Weep Hole Stem 316SS						✓						✓
27	77940	V10163E*	EPDM Stem O-Ring 1" & 1¼"	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	
27	76167	V10163	FKM (viton type) Stem O-Ring 1" & 1¼"	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	
27	77941	VE25163E*	2-210 EPDM O-Ring						✓						✓
27	77942	VE25163	2-210 FKM (viton type) O-Ring						✓						✓
28	77943	VE109E	Indicator Seal EPDM (Standard)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
28	77944	VE109A	Indicator Seal FKM (viton type)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
N/S	77946	VE10200	¾", 1" and 1¼" Electric Valve Repair Kit	✓	✓	✓				✓	✓	✓			
N/S	77947	VE20200	1½" & 2" Electric Valve Repair Kit				✓	✓					✓	✓	
N/S	77948	VE25200	2" FP Electric Valve Repair Kit						✓						✓
23	77945	VE107A	VE Flow Indicator for VE109A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

\*Valve Repair Kits contain items marked with asterisk\*



**3-Way Electric Valves Threaded Outlet w/Flanged Inlet**
**3/4", 1", 1¼", 1½", 2"**
**FEATURES**

- 316 stainless steel ball & stem
- Fiberglass reinforced polypropylene
- Glass reinforced PTFE seats
- EPDM O-Rings
- 12-volt DC operated
- 150 PSI maximum pressure
- Internally fused/automatic reset
- Open/closed indicator

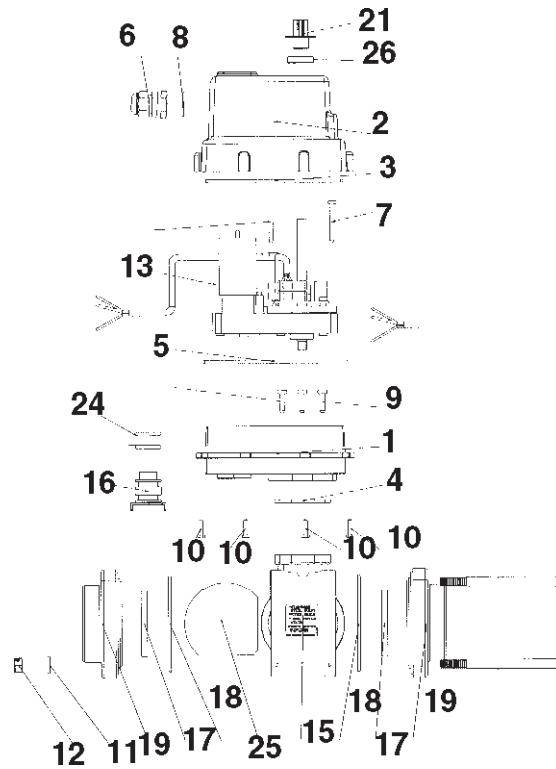

**SIDE LOAD:**
**DIRECTIONAL FLOW RIGHT OR LEFT  
 VALVE FLOW CANNOT BE TURNED OFF**

PART NO.	REPLACES NO.	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	RESPONSE TIME
77949	VE075SL	¾" Electric Valve x 1" Inlet Flange	150	¾"	1"	¾
77950	VE100SL	1" Electric Valve x 1" Inlet Flange	150	1"	1"	¾
77951	VE125SL	1¼" Electric Valve x 1" Inlet Flange	150	1¼"	1"	¾
77952	VE150SL	1½" x 2" Standard Port Flange	150	1½"	1½"	1¼
77953	VE200SL	2" x 2" Standard Port Flange	150	2"	1½"	1¼
77954	VE204SLFP	2" Electric Valve x 2" Full Port Flange	150	2"	2"	1¼


**BOTTOM LOAD:**
**DIRECTIONAL FLOW RIGHT OR LEFT  
 VALVE FLOW CANNOT BE TURNED OFF**

PART NO.	REPLACES NO.	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL	RESPONSE TIME
77955	VE075BL	¾" Electric Valve x 1" Inlet Flange	150	¾"	1"	1½
77956	VE100BL	1" Electric Valve x 1" Inlet Flange	150	1"	1"	1½
77957	VE125BL	1¼" Electric Valve x 1" Inlet Flange	150	1¼"	1"	1½
77958	VE150BL	1½" x 2" Standard Part Flange	150	1½"	1½"	2½
77959	VE200BL	2" x 2" Standard Port Flange	150	2"	1½"	2½
77999	VE204BLFP	2" Electric Valve x 2" Full Port Flange	150	2"	2"	2½

**Banjo Electric 3-Way Ball Valve Replacement Parts**



**SEE NEXT PAGE FOR PARTS DESCRIPTIONS**

## Banjo Electric 3-Way Ball Valve Replacement Parts

REF. NO.	PART NO.	REPLACES	DESCRIPTION	VE075SL	VE100SL	VE125SL	VE150SL	VE200SL	VE204SLFP	VE075BL	VE100BL	VE125BL	VE150BL	VE200BL	VE204BLFP
1	77905	VE25101	Poly Housing for Electric Valve	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2	77906	VE25102A	Housing Top for VE Actuator	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3	77907	VE114*	Large Inner Gasket	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4	76159	VE105*	Electric Valve Mounting Gasket	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5	77908	VE116*	Large Out Gasket for Electric Valves	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6	76161	VE3448	Connector w/Nut for Electric Valves	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7		VE110	#8x1½ PPHS Screw				✓	✓	✓				✓	✓	✓
8	76162	V20060	PTFE Bearing-Gasket	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
9		VE111	#10x¾ Phillips Pan Head Screw	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10		UV15220	Housing Screw	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
11		V20018	¾" S.S. Lock Washer				✓	✓	✓				✓	✓	✓
12		V20019	¾" S.S. Body Nut				✓	✓	✓				✓	✓	✓
13	77910	VE4589	1-¼ Sec. On-Off High Torque Motor				✓	✓	✓				✓	✓	✓
13	76164	VE4274	¾ Sec 3 Wire On/Off Motor	✓	✓	✓				✓	✓	✓			
15	77684	MVE25354AS	VE SL Body -2" w/Weephole						✓						
15	77685	MVE25354AB	VEBL Body-2" FP w/Weephole												✓
15	77686	MVE20354AS	VE SL Body-1½ to 2" Weephole				✓	✓							
15	77687	MVE20354AB	VE BL Body-1½ to 2" Weephole										✓	✓	
15	77688	MVE10354AB	VE BL Body-¾ to 1¼" Weephole							✓	✓	✓			
15	77689	MVE10354AS	1" SL Weephole Body	✓	✓	✓									
16	77690	VE25151ASS	2" FP VE Weephole Stem 316SS						✓						✓
16	77691	VE10151BSS	1" FP VE Weephole Stem 316SS	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	
17	77933	VE25258*	2" FP Electric Valve Ball Seat						✓						✓
17	77919	VE20258*	1½" & 2" Electric Valve Ball Seat				✓	✓					✓	✓	
17	76118	VE10258*	Ball Seat for Electric Valve	✓	✓	✓				✓	✓	✓			
18	77937	V25264*	Valve Body O-Ring						✓						✓
18	77938	V25264EP	Valve Body O-Ring FKM (viton type)						✓						✓
18	77935	VE20264*	2" VE Body O-Ring #150 FKM (viton type)				✓	✓					✓	✓	
18	77936	VE20264E	2" VE Body O-Ring EPDM				✓	✓					✓	✓	
18	76117	VE10264*	1" VE Body O-Ring #139 FKM (viton type)	✓	✓	✓				✓	✓	✓			
18	77934	VE10264E	1" VE Body O-Ring EPDM	✓	✓	✓				✓	✓	✓			
19	77918	VE25356	2" End Plate for Electric Valve						✓						✓
19	77916	VE20256	2" Threaded End Plate					✓						✓	
19	77917	VE20257	1½" Threaded End Plate				✓						✓		
19	76119	VE07357	¾" Electric Valve End Plate	✓						✓					
19	76158	VE10256	1¼" Electric Valve End Plate				✓					✓			
19	76157	VE10257	1" Electric Valve End Plate		✓						✓				
21	77945	VE107A	VE Flow Indicator for VE109A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
24	77941	VE25163E*	2-210 EPDM O-Ring						✓						✓
24	77942	VE25163	2-210 FKM (viton type) O-Ring						✓						✓
24	77940	V10163E*	EPDM Stem O-Ring 1" & 1¼"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
24	76167	V10163	EPDM Stem O-Ring 1" & 1¼"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
25	77692	VE25355	3-Way Stainless Steel Ball						✓						✓
25	77693	VE20355BL	2" Bottom Load VE Ball 316SS										✓	✓	
25	77694	VE20355	2" VE Ball 316SS				✓	✓							
25	77695	VE10355BL	1" FP Bottom Load VE Ball 316SS							✓	✓	✓			
25	77696	VE10355	1" FP VE Ball 316SS	✓	✓	✓									
26	77943	VE109E	Indicator Seal EPDM	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
26	77944	VE109A	Indicator Seal FKM (viton type)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
N/S	77948	VE25200	2" FP Electric Valve Repair Kit				✓	✓	✓				✓	✓	✓
N/S	77947	VE20200	1½" & 2" Repair Kit				✓	✓					✓	✓	
N/S	77946	VE10200	¾" 1", and 1¼" Electric Valve Repair Kit	✓	✓	✓				✓	✓	✓			

\*Valve Repair Kits contain items marked with asterisk\*

**Banjo Single Union Polypropylene Ball Valve**

**FEATURES**

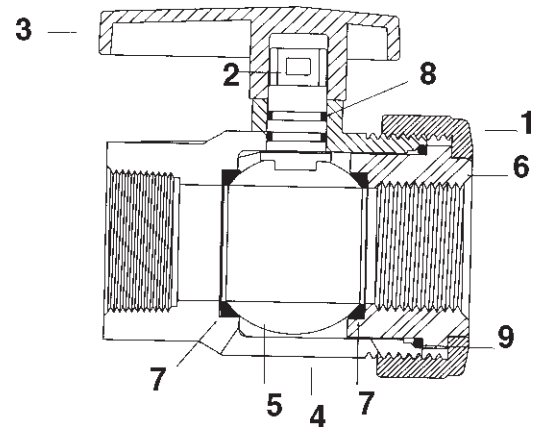
- Precision molded in glass reinforced polypropylene, for strength and chemical resistance.
- Teflon seats for smooth operation and proper sealing characteristics.
- EPDM O-Rings to handle most fertilizers and many chemicals, viton available.
- Double O-Rings in stem area for extra sealing protection.
- Interlocking body and end plate to allow easy thread connection when installing valves.
- Maximum operating pressure 100 PSI at 70°F.
- Quality with economy.



PART NO.	REPLACES	DESCRIPTION
76030	UV-050FP	1/2" nyglass ball valve
76031	UV-075FP	3/4" nyglass ball valve
76032	UV-100FP	1" nyglass ball valve
76033	UV-125FP	1 1/4" nyglass ball valve
76034	UV-150FP	1 1/2" nyglass ball valve
76035	UV-200FP	2" nyglass ball valve

**REPLACEMENT PARTS**

REF	PART NO.	REPLACES	DESCRIPTION
1	76023	UV07150	3/4" union end cap fits 1/2" and 3/4"
1	79295	UV10150	1" union end cap
1	76095	UV15150	1 1/4", 1 1/2" union end cap
1	76096	UV20150	2" union end cap
2	76024	UV07151	1/2", 3/4" union stem
2	76026	UV10151	1" union stem
2	76027	UV15151	1 1/4", 1 1/2" union stem
2	76028	UV20151	2" union stem
3	76079	UV07153	1/2", 3/4" union handle
3	76080	UV10153	1" union handle
3	76081	UV15153	1 1/4", 1 1/2" union handle
3	76082	UV20153	2" union handle
4	76029	UV05254	1/2" union valve body
4	76036	UV07254	3/4" union valve body
4	76037	UV10254	1" union valve body
4	76038	UV15244	1 1/4" union valve body
4	76039	UV15254	1 1/2" union valve body
4	76042	UV20254	2" union valve body
5	76043	UV07255	1/2", 3/4" union valve ball
5	76047	UV10255	1" union valve ball
5	76048	UV15255	1 1/4", 1 1/2" union valve ball
5	76051	UV20255	2" union valve ball
6	76052	UV05256	1/2" union end plate
6	76055	UV07256	3/4" union end plate
6	76056	UV10256	1" union end plate
6	76057	UV15267	1 1/4" union end plate
6	76058	UV15257	1 1/2" union end plate
6	76059	UV20257	2" union end plate



REF	PART NO.	REPLACE	DESCRIPTION
7	76062	UV07258	1/2", 3/4" union valve seat
7	76513	UV10258	1" union valve seat
7	77109	V20258	1 1/4", 1 1/2" union valve seat
7	76514	UV20258	2" union valve seal
8	76538	UV07163	1/2", 3/4" union stem O-Ring
8	76539	UV10163	1" union stem O-Ring
8	76540	UV15163	1 1/4", 1 1/2" union stem O-Ring
8	76541	UV20163	2" union stem O-Ring
9	76542	UV07264	1/2" 3/4" union body O-Ring
9	76543	UV10264	1" union body O-Ring
9	76544	UV15264	1 1/4", 1 1/2" union body O-Ring
9	76545	UV20264	2" union body O-Ring

## 3 - Way Poly Ball Valves

### FEATURES

- Stainless steel bolts.
- Precision molded in polypropylene. Polypropylene is reinforced with fiberglass for additional strength.
- Self-aligning ball moves freely against the teflon seats for smooth operation. The valve opens and closes with very little pressure on the handle.
- Ball is diamond turned, after molding, to make it spherically perfect, which provides precise contact between ball and seats.
- Viton O-Ring stem seal.
- Teflon self-lubricating stem bushings and seats cannot stick or bind.
- Maximum operating pressure 100 PSI

### BOTTOM LOAD

Directional flow, right or left.

Valve can be turned off to stop flow.

PART NO.	REPLACES	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL
77069	V075BL	3/4" 3-way bottom load poly valve	100	3/4"	1"
77070	V100BL	1" 3-way bottom load poly valve	100	1"	1"
77071	V125BL	1 1/4" 3-way bottom load poly valve	100	1 1/4"	1 1/2"
77072	V150BL	1 1/2" 3-way bottom load poly valve	100	1 1/2"	1 1/2"
77073	V200BL	2" 3-way bottom load poly valve	100	2"	2"

### SIDE LOAD

Directional flow, right or left.

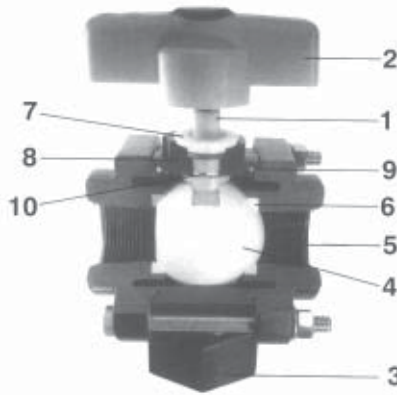
Valve can not be turned off to stop flow.

PART NO.	REPLACES	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL
77074	V075SL	3/4" 3-way side load poly valve	100	3/4"	1"
77075	V100SL	1" 3-way side load poly valve	100	1"	1"
77076	V125SL	1 1/4" 3-way side load poly valve	100	1 1/4"	1 1/2"
77077	V150SL	1 1/2" 3-way side load poly valve	100	1 1/2"	1 1/2"
76088	V200SL	2" 3-way side load poly valve	100	2"	2"



PART NO.	REPLACES	DESCRIPTION
77717	UV125BL	1 1/4" 3-Way Bottom Load Union Valve
77726	UV150BL	1 1/2" 3-Way Bottom Load Union Valve
77727	UV200BL	2" 3-Way Bottom Load Union Valve

**Banjo 3-Way Poly Ball Valve Parts Breakdown**



REF.	PART NO.	REPLACES	DESCRIPTION
1	76576	V10151A	Stem, 77069, 77070, 77074, 77075
1	77082	V20351	Stem, 77071, 77072, 77076, 77077
1	77083	V25151	Stem, 77073, 76088
2	77084	V10353TB	Handle, 77069, 77070
2	76083	V10153A	Handle, 77074, 77075 Straight
2	77086	V20353TB	Handle, 77071, 77072
2	77087	V20353TS	Handle, 77076, 77077
2	77088	V25353B	Handle, 77073
2	77089	V25153SH	Handle, 76088
3	77090	V07354B	Body, 77069
3	77091	V07354S	Body, 77074
3	77092	V10354B	Body, 77070
3	77093	V10354S	Body, 77075
3	77094	V20344B	Body, 77071
3	77095	V20344S	Body, 77076
3	77096	V20354B	Body, 77072
3	77097	V20354S	Body, 77077
3	77098	V25354B	Body, 77073
3	77099	V25354S	Body, 76088
4	77100	V10355B	Ball, 77069, 77070
4	77101	V10355S	Ball, 77074, 77075
4	77102	V20355B	Ball, 77071, 77072
4	77103	V20355S	Ball, 77076, 77077
4	77104	V25355B	Ball, 77073
4	77105	V25355S	Ball, 76088
5	77106	V07357	End plate, 77069, 77074

REF.	PART NO.	REPLACES	DESCRIPTION
5	76589	V10257	End plate, 77070, 77075
5	76593	V20267	End plate, 77071, 77076
5	76592	V20257	End plate, 77072, 77077
5	77107	V25356	End plate, 77073, 76088
6	77108	V10258	Ball seats, 77069, 77070, 77074, 77075
6	77109	V20258	Ball seats, 77071, 77072, 77076, 77077
6	77110	V25258	Ball seats, 77073, 76088
7	77111	V10159	Upper stem bushing, 77069, 77070, 77074, 77075
7	77112	V20159	Upper stem bushing, 77071, 77072, 77076, 77077
7	77113	V25160	Upper stem bushing, 77073, 76088
8	76167	V10163	Stem O-Ring, 77069, 77070, 77074, 77075
8	77115	V20163	Stem O-Ring, 77071, 77072, 77076, 77077
8	76087	V25163	Stem O-Ring, 77073, 76088
9	77116	V10264	Body O-Ring, 77069, 77070, 77074, 77075
9	77117	V20264	Body O-Ring, 77071, 77072, 77076, 77077
9	77937	V25264	Body O-Ring, 77073, 76088
10	77119	V10060	Thrust bushing, 77069, 77070, 77074, 77075
10	76162	V20060	Thrust bushing, 77071, 77072, 77076, 77077
10	77120	V25060	Thrust bushing, 77073, 76088

## TeeJet Directo Valve Polypropylene Ball Valves

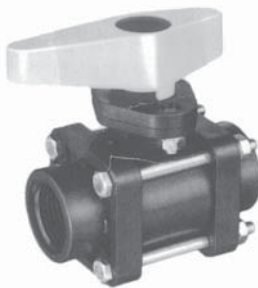
### 340M-PP SERIES MANUAL BALL VALVES

- Quarter turn of handle from shutoff to full flow.
- 2-way and 3-way versions available. 3-way version diverts flow to either outlet; no shutoff.
- Wetted parts: glass-reinforced polypropylene, teflon and viton

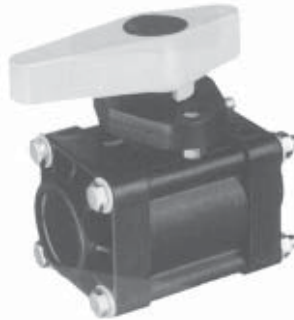
PART NO.	REPLACES	MAXIMUM PRESSURE	NO. OF OUTLETS	CONNECTION SIZE
76133	AA343M-2-3/8-PP	150 psi	1	3/8" NPT (F)
76135	AA343M-2-1/2PP	150 psi	1	1/2" NPT (F)
76535	AA344M-2-3/4	300 psi	1	3/4" NPT (F)
76536	AA344M-2-1	300 psi	1	1" NPT (F)
79231	AA344M-2-3/4-PP	125 psi	1	3/4" NPT (F)
76139	AA344M-2-1PP	125 psi	1	1" NPT (F)
76141	AA346M-2-1 1/4-PP	125 psi	1	1 1/4" NPT (F)
76143	AA346M-2-1 1/2-PP	125 psi	1	1 1/2" NPT (F)



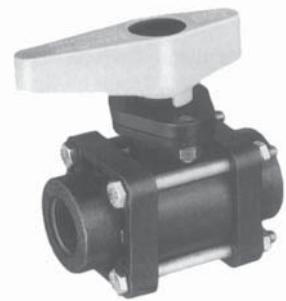
AA343M-PP



AA344M-PP



AA346M-PP



AA344M

## Directo Valve

### 340 SERIES 3-WAY MANUAL BYPASS BALL VALVES

PART NO.	REPLACES	MAXIMUM PRESSURE	NO. OF OUTLETS	CONNECTION SIZE
76537	AA344M-3-3/4	300 psi	2	3/4" NPT (F)
74283	AA344M-3-1	300 psi	2	1" NPT (F)
76134	AA343M-3-3/8-PP	150 psi	2	3/4" NPT (F)
76136	AA343M-3-1/2-PP	150 psi	2	1/2" NPT (F)
76138	AA344M-3-3/4-PP	125 psi	2	3/4" NPT (F)
76140	AA344M-3-1-PP	125 psi	2	1" NPT (F)
76142	AA346M-3-1 1/4-PP	125 psi	2	1 1/4" NPT (F)
76144	AA346M-3-1 1/2-PP	125 psi	2	1 1/2" NPT (F)



AA344M



AA346M-PP



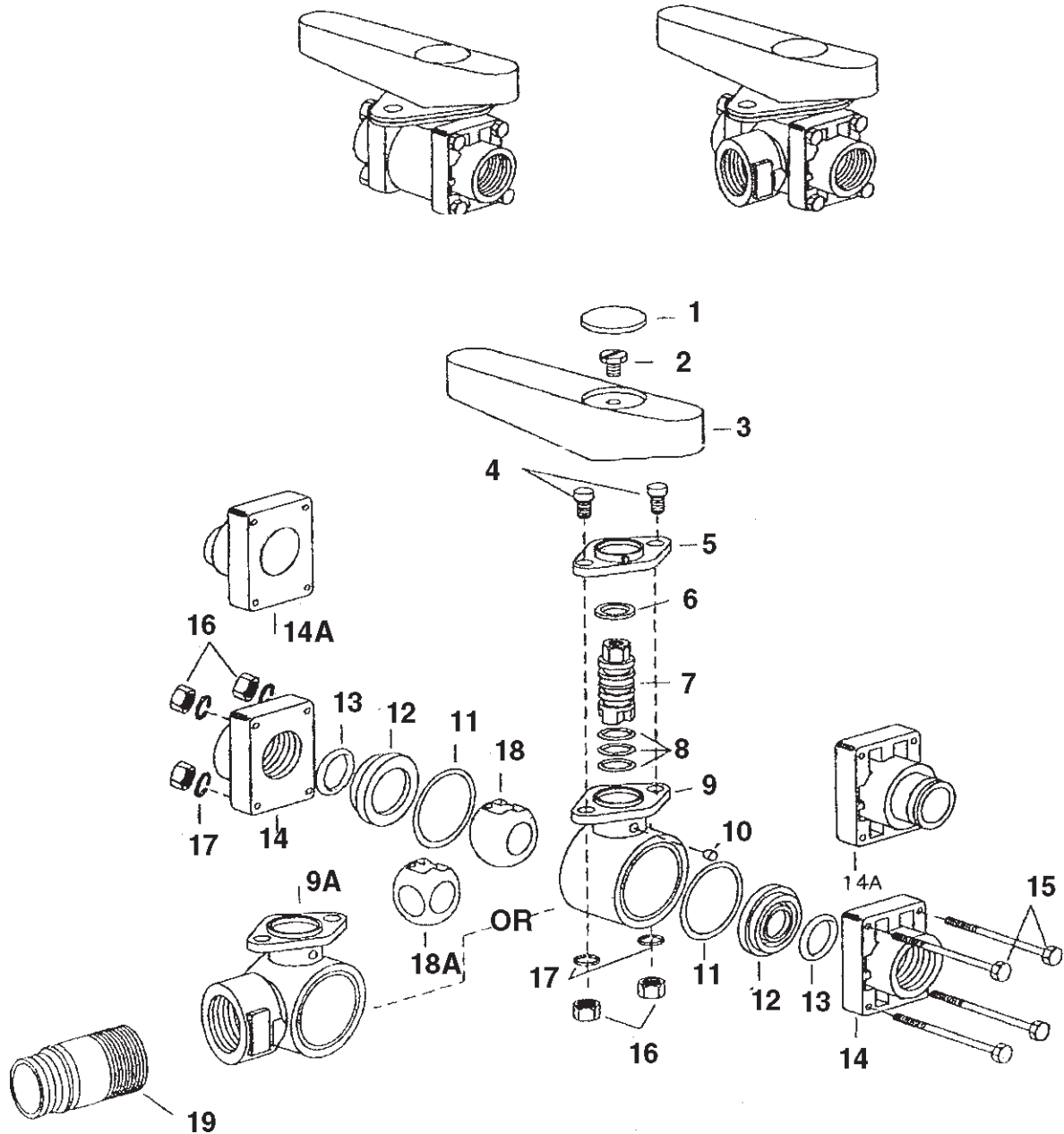
AA344M-PP



AA343M-PP

**DirectoValve Parts Breakdown**

**DIRECTOVALVE 340 SERIES 3-WAY MANUAL BYPASS BALL VALVES,  
340 SERIES 2-WAY MANUAL SHUTOFF BALL VALVES**



**FOR PART NUMBERS SEE NEXT PAGE**





**Banjo Polypropylene Bolted Ball Valves**

- **Stainless Steel Bolts**
- **Viton Seals**
- **100% Teflon Seats**

**Features**

- Precision molded in polypropylene. Polypropylene is reinforced with fiberglass for additional strength
- Self-aligning ball moves freely against the teflon seats for smooth operation. The valve opens and closes with very little pressure on the handle
- Ball is diamond turned, after molding, to make it spherically perfect, which provides precise contact between ball and seats
- Teflon self-lubricating stem bushing and seats can not stick or bind.



**4 BOLT VALVES**

PART NO.	REPLACES	DESCRIPTION	PIPE SIZE	OPENING THRU BALL
76063	V-050	Valve - full port	1/2"	3/4"
76064	V-075	Valve - full port	3/4"	3/4"
76065	V-100	Valve - standard port	1"	3/4"
76066	V-100-FP	Valve - full port	1"	1"
76067	V-125	Valve - standard port	1 1/4"	1"
76068	V-125-FP	Valve - full port	1 1/4"	1 1/2"
76069	V-150	Valve - full port	1 1/2"	1 1/2"
76070	V-200	Valve - standard port	2"	1 1/2"
77061	V-204-FP	Valve - full port	2"	2"



**Locking Device Features**

- Stainless steel construction
- Installs under valve handle
- Comes complete with handle and locking device (padlock not included)
- Available for V125FP, V150 and V200



**76074**

**Locking Handle Features**

- Stainless steel hardware.
- Locks in open and closed positions
- Locking handle replaces standard handle. Padlock not included.
- Available for valves V200FP, V300, V300FP and V400.



**76075**

**6 BOLT VALVES**

PART NO.	REPLACES	DESCRIPTION	PIPE SIZE	OPENING THRU BALL
76071	V-200-FP	Valve - full port	2"	2 1/16"
76072	V-300	Valve - standard port	3"	2 1/2"
76073	V-300-FP	Valve - full port	3"	3"
76563	V-400	Valve - standard port	4"	3 1/2"



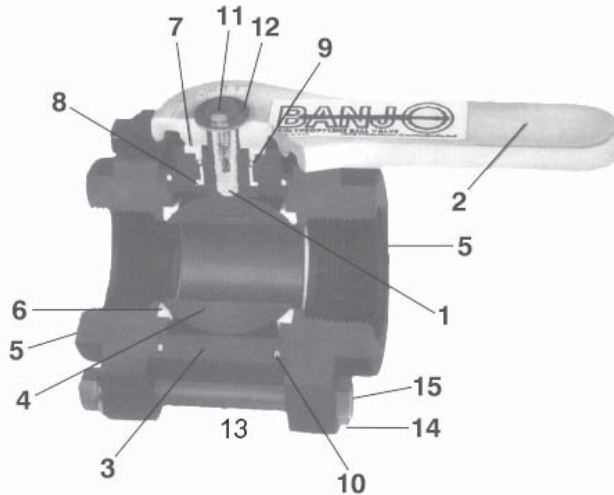
**STRAIGHT MOUNTING BRACKET**  
**76565, 77728**

**90° MOUNTING BRACKET**  
**76564, 77729**

**ACCESSORIES**

PART NO.	REPLACES	DESCRIPTION	
76074	VL20153	Locking device	Available for V125FP, V150 and V200 Padlock not included
76075	VL25153	Locking handle	Available for valves V200FP, V300, V300FP and V400 Padlock not included
76564	V25271	90° Mounting Bracket	Fits V150, V200, V200FP, V300 & V300FP
76565	V25270	Straight Mounting Bracket	Fits V150, V200, V200FP, V300 & V300FP
77728	V10270	Straight Mounting Bracket	Fits V100FP, V125
77729	V10271	90° Mounting Bracket	Fits V100FP, V125

## Banjo Polypropylene Bolted Ball Valves



### REPLACEMENT PARTS

REF	PART NO.	REPLACES	DESCRIPTION
1	76575	V07151A	Stem, 76063, 76064, 76065
1	76576	V10151A	Stem, 76066, 76067
1	76577	V20151M	Stem, 76068, 76069, 76070
1	76578	V25151A	Stem, 76071, 76072, 76073, 76563, 77061
2	76078	V07153A	Handle, 76063, 76064, 76065
2	76083	V10153A	Handle, 76066, 76067
2	76076	V20153	Handle, 76068, 76069, 76070
2	76077	V25153	Handle, 76071, 76072, 76073, 76563, 77061
3	76579	V07254	Valve body, 76063, 76064, 76065
3	76585	V10254	Valve body, 76066, 76067
3	76580	V20254	Valve body, 76068, 76069, 76070
3	76581	V25254	Valve body, 76071, 77061
3	76582	V30254	Valve body, 76072
3	76583	V35254	Valve body, 76073
3	76584	V40254	Valve body, 76563
4		*	Ball
5	76586	V05256	End plate, 76063
5	76587	V07257	End plate, 76064
5	76588	V07256	End plate, 76065
5	76589	V10257	End plate, 76066
5	76590	V10256	End plate, 76067
5	76591	V20256	End plate, 76070
5	76592	V20257	End plate, 76069
5	76593	V20267	End plate, 76068
5	76097	V25256	End plate, 76071
5	76594	V30264	End plate, 76072
5	76595	V35264	End plate, 76073
5	76596	V40264	End plate, 76563
5	77735	V25456	End Plate, 77061
6		*	Ball seat
7		*	Upper stem bushing
8		*	Thrust washer
9		*	Stem O-Ring

REF	PART NO.	REPLACES	DESCRIPTION
10		*	Valve body O-Ring
11	76597	V10020A	Handle bolt, 76063, 76064, 76065, 76066, 76067
11	76553	V20020	Handle Bolt, 76068, 76069, 76070, 76071, 76072, 76073, 76563
12	76598	V07021A	Handle washer, 76063, 76064, 76065, 76066, 76067
12	76552	V20021	Handle washer, 76068, 76069, 76070
12	76599	V25121A	Handle washer, 76071, 76072, 76073, 76563, 77061
13	76705	V07017	Body bolt, 76063, 76064, 76065
13	76708	V10117	Body bolt, 76066, 76067
13	77045	V20017	Body bolt, 76068, 76069, 76070
13	77046	V25017	Body bolt, 76071
13	77047	V30017	Body bolt, 76072
13	77048	V35017	Body bolt, 76073
13	77049	V40017	Body bolt, 76563
14	77051	V10118	Washer, 76066, 76067
14	77050	V07018	Washer, 76063, 76064, 76065
14	76556	V20018	Washer, 76068, 76069, 76070, 76071, 76072, 76073, 76563
15	77052	V07019	Nut, 76063, 76064, 76065
15	77053	V10119	Nut, 76066, 76067
15	76557	V20019	Nut, 76068, 76069, 76070, 76071, 76072, 76073, 76563
N.S.	77054	V07200	Repair kit, 76063, 76064, 76065
N.S.	77055	V10200	Repair kit, 76066, 76067
N.S.	77056	V20200	Repair kit, 76068, 76069, 76070
N.S.	77057	V25200	Repair kit, 76071, 77061
N.S.	77058	V30200	Repair kit, 76072
N.S.	77059	V35200	Repair kit, 76073
N.S.	77060	V40200	Repair kit, 76563

\*Valve repair kits contain items marked with asterisk:

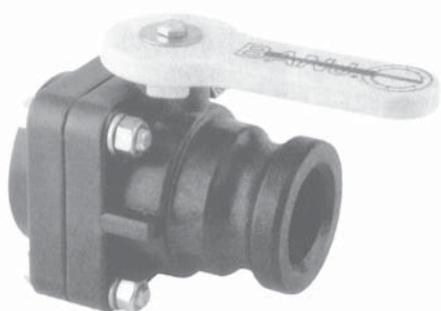
1 ball, 2 body O-Rings, 1 thrust washer, 2 ball seats, 1 upper stem bushing, 1 stem O-Ring

**B a n j o S t u b b y V a l v e**

**POLYPROPYLENE BOLTED BALL VALVES**

Features

- All teflon seals.
- Stainless steel bolts.
- Glass filled polypropylene
- Three design options
- Unique patented compact design
- Lightweight
- Maximum operating pressure 100 PSI @ 70°F, 75 PSI @ 150°F



PART NO.	REPLACES	DESCRIPTION	OPENING THRU BALL
76093	VSF200	2" male adapter x 2" female NPT thd	1 1/2"

**Replacement Parts**

REF	PART NO.	REPLACES	DESCRIPTION
1	76549	VF20254	2" F style body, VSF200, VSFMT200 VSFHB200
1	76550	VMT20254	2" MNPT style body, VSMT200,
2	76551	VS20153SH	2" short style handle
3	76552	V20021	Handle washer
4	76553	V20020	Handle bolt
5	76554	VS20256	2" end plate, VSF200, VSMT200
5	76555	VSMT20256	2" end plate, VSFMT200
5	77731	VSHB20256	2" HB End Plate
6	76556	V20018	Lock washer
7	76557	V20019	Body nut
8	76558	V20010SS	Body bolt
9	76162	V20060*	Upper stem bushing gasket
10	76162	V20060*	Thrust bearing gasket
11	76559	VS20151	Stem
12	77732	V20258A*	Seat
13	77733	VS20255*	Ball
14	77734	V21204*	Body Gasket
15	77732	VS20258A*	Seat

\* In repair Kit

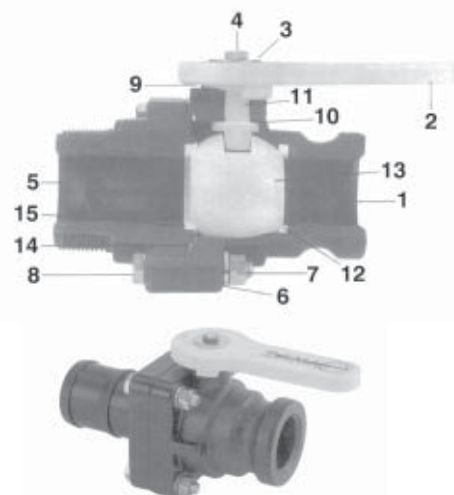
PART NO.	REPLACES	DESCRIPTION
76560	VS20200	Repair kit (includes ball, seats & all seals)



PART NO.	REPLACES	DESCRIPTION	OPENING THRU BALL
76547	VSMT200	2" male NPT thread x 2" female NPT thd	1 1/2"
78426	VSMT200H	2" male NPT x 2" Sleeve	1 1/2"



PART NO.	REPLACES	DESCRIPTION	OPENING THRU BALL
76094	VSFMT200	2" male adapter x 2" male NPT thd	1 1/2"



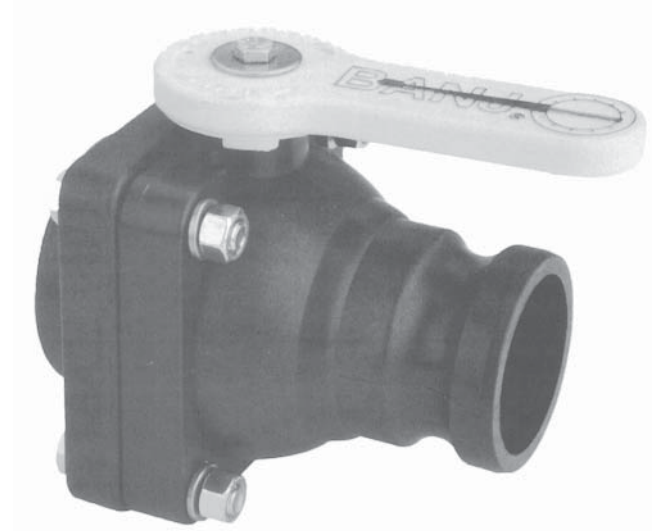
PART NO.	REPLACES	DESCRIPTION	OPENING THRU BALL
77730	VSFHB200	2" male adapter x 2" Hose barb	1 1/2"

## B a n j o S t u b b y V a l v e

### 2" FULL PORT BALL VALVES

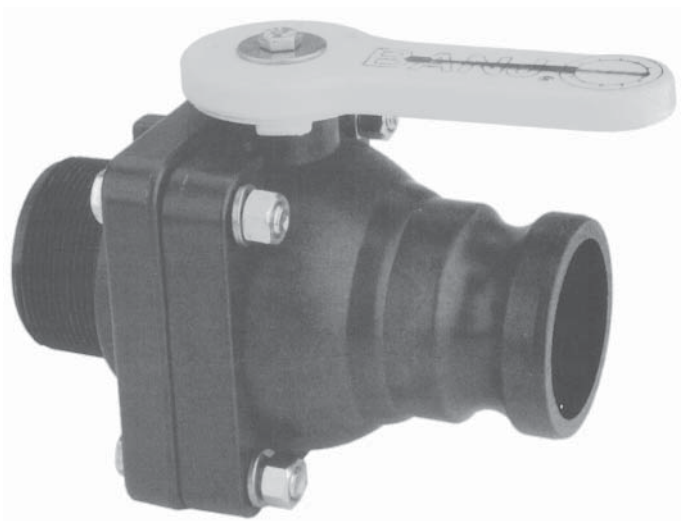
#### Features

- Stainless steel bolts
- 100% teflon seats
- All teflon seals
- Glass-filled polypropylene
- Unique compact design
- Lightweight



PART NO.	REPLACES	DESCRIPTION	PIPE SIZE	OPENING THRU BALL
76548	VSF204FP	2" male adapter x 2" female NPT thread	2"	2"

PART NO.	REPLACES	DESCRIPTION	PIPE SIZE	OPENING THRU BALL
76546	VSMT204FP	2" male NPT thread x 2" female NPT thread	2"	2"



PART NO.	REPLACES	DESCRIPTION	PIPE SIZE	OPENING THRU BALL
76562	VSFMT204FP	2" male adapter x 2" male NPT thread	2"	2"

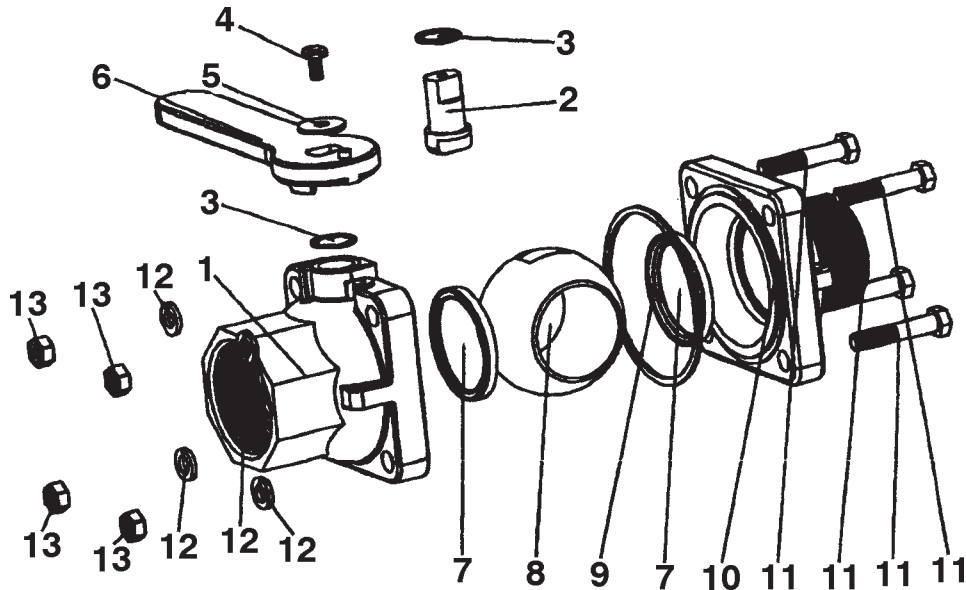


PART NO.	REPLACES	DESCRIPTION	PIPE SIZE	OPENING THRU BALL
76561	VS204FP	2" x 2" female NPT thread	2"	2"

**PARTS BREAKDOWN SEE NEXT PAGE**

**B a n j o S t u b b y V a l v e**

**2" FULL PORT BALL VALVES**



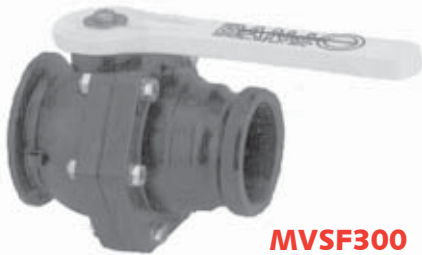
REF	PART NO.	REPLACES	DESCRIPTION
1	76566	VFT25254	Body, 76546, 76561
1	76567	VF25254	Body, 76548, 76562
2	76559	VS20151	Stem
3	76568	V20060	Thrust bearing
4	76553	V20020	Bolt
5	76552	V20021	Washer
6	76569	VS25153	Handle, 76546, 76562
6	76551	VS20153SH	Handle, 76548, 76561
7	76570	VS25258A	Seat
8	76571	VS25255	Ball
9	76572	V25214	Body gasket
10	76573	VS25356	End plate, 76548, 76561
10	76574	VSMT25356	End plate, 76546, 76562
11	76558	V20010SS	Bolt
12	76556	V20018	Washer
13	76557	V20019	Nut

## 3 " S t u b b y V a l v e

### 3" STANDARD PORT BALL VALVES - PATENTED

#### FEATURES

- Stainless steel bolts.
- Glass filled polypropylene
- PTFE and FKM (viton type) seals
- Five design options
- Unique patented compact design
- Lightweight
- 100 PSI @ 70°F and 75 PSI @ 150°F



**MVSF300**



**VSMT300**



**MVSMT300**



**VSF300**



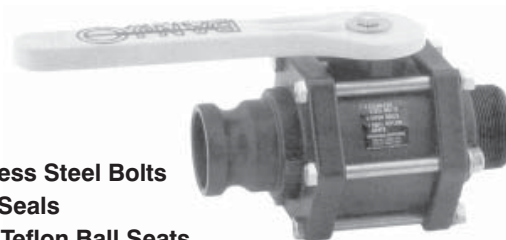
**VSFMT300**

PART NO.	REPLACES	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL
77736	MVSF300	3" Manifold Flange X 3" Male Adapter	100	3"	2.5"
77737	VSMT300	3" Female NPT x 3" Male NPT	100	3"	2.5"
77738	MVSMT300	3" Manifold Flange X 3" Male NPT	100	3"	2.5"
77739	VSF300	3" Female NPT X 3" Male Adapter	100	3"	2.5"
77740	VSFMT300	3" Male NPT X 3" Male Adapter	100	3"	2.5"

**Banjo 2" Full Port Polypropylene Bolted Ball Valves**

**FEATURES**

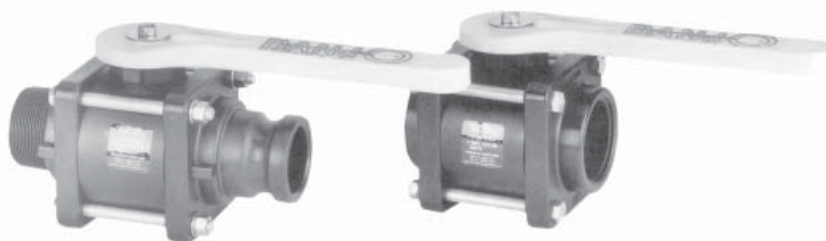
- Viton O-Ring stem seal.
- Teflon self-lubricating stem bushings and seats cannot stick or bind.
- Precision molded in polypropylene. Polypropylene is reinforced with fiberglass for additional strength.
- Self-aligning ball moves freely against the teflon seats for smooth operation. The valve opens and closes with very little pressure on the handle.
- Ball is diamond turned, after molding, to make it spherically perfect, which provides precise contact between ball and seats.
- Maximum operating pressure 150 PSI & 70°F, 75 PSI & 150°F.



- **Stainless Steel Bolts**
- **Viton Seals**
- **100% Teflon Ball Seats**

PART NO.	REPLACES	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL
77062	VFMT200FP	2" male adapter x 2" male NPT thread	150	2"	2"
77063	VFMT200FSPH	2" male adapter x 2" male NPT thread w/short handle	150	2"	2"

**4 Bolt 2" Full Port**



- **Stainless Steel Bolts**
- **Viton Seals**
- **100% Teflon Ball Seats**

PART NO.	REPLACES	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL
77064	VFMT204FP	2" valve – male NPT x male adapter – full port	150	2"	2"
77061	V204FP	2" valve – female NPT x female NPT thd – full port	150	2"	2"

**Ansi Flange Ball Valves**

**2" Full Port FEATURES**

- Stainless steel bolts.
- 100% teflon seats.
- Viton seals
- Glass-filled polypropylene.
- Unique compact design.
- Lightweight
- Maximum operating pressure 100 PSI @ 70°F, 75 PSI @ 150°F.



**SPP77065**



**SPP 77066**

PART NO.	REPLACES	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL
77065	VSF200FPAF	2" male adapter x 2" ANSI flange	100	2"	2"
77067	AF200G	2" ANSI flange gasket – EPDM			
77068	AF200GV	2" ANSI flange gasket – Viton			

PART NO.	REPLACES	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL
77066	VSMT200FPAF	2" male thread x 2" ANSI flange	100	2"	2"
77067	AF200G	2" ANSI flange gasket – EPDM			
77068	AF200GV	2" ANSI flange gasket – Viton			



## Banjo Dry-Mate Polypropylene Dry Disconnect

**PREVENTS  
ACCIDENTAL SPILLS  
AND EXPOSURE!**

**PATENTED DOUBLE  
BALL DESIGN WITH  
CAM LEVER  
CONNECTION!**

### Features

- Lightweight
- Unrestricted 1 1/2" flow
- Minimal fluid spillage
- Easy to use.
- Economical
- Reduces risk of exposure
- Wide range of chemical resistance
- Can not be uncoupled in open position
- 100 PSI maximum operating pressure



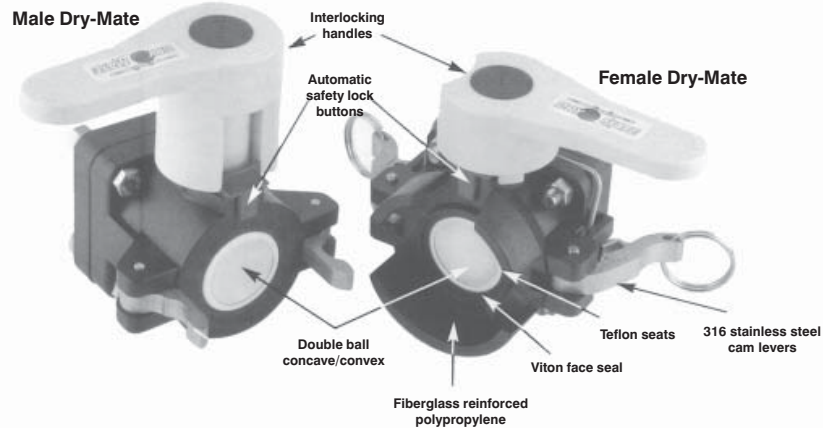
**User friendly:** Operating Dry-Mate is simple. The handles interlock making it easy to identify which handle opens or closes first. No guessing involved! The two Dry-Mate halves couple together with cam levers for positive engagement.

**Design:** The Banjo Dry-Mate is designed for safe and easy spill free connections. The "double ball" design allows maximum flow, while the cam lever style of connection is the most recognized fluid connector.



Comes complete with Dust Covers to protect balls and seals when not in use.

Lanyard included.



### MALE & FEMALE SOLD SEPARATELY

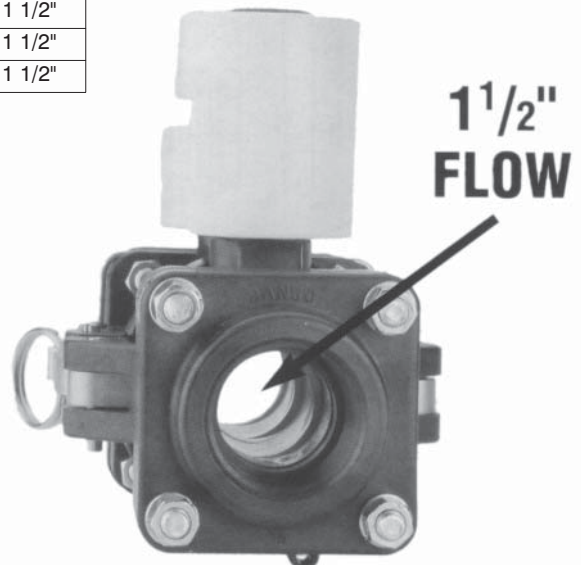
PART NO.	REPLACES	DESCRIPTION	MAX PSI	PIPE SIZE	OPENING THRU BALL
76089	DM150A	1 1/2" male Dry-Mate x FPT	100	1 1/2"	1 1/2"
76090	DM150D	1 1/2" female Dry-Mate x FPT	100	1 1/2"	1 1/2"
76091	DM200A	2" male Dry-Mate x FPT	100	2"	1 1/2"
76092	DM200D	2" female Dry-Mate x FPT	100	2"	1 1/2"

### REPAIR KIT (INCLUDES BALL, BALL SEATS & SEALS)

PART NO.	REPLACES	DESCRIPTION	SIZE
77078	DM20200A	Repair kit for male	Fits 1 1/2" & 2"
77079	DM20200D	Repair kit for female	Fits 1 1/2" & 2"

### CAP & PLUG

PART NO.	REPLACES	DESCRIPTION	SIZE
77080	DM200CAP	Dust cap for male	Fits 1 1/2" & 2"
77081	DM200PL	Dust plug for female	Fits 1 1/2" & 2"

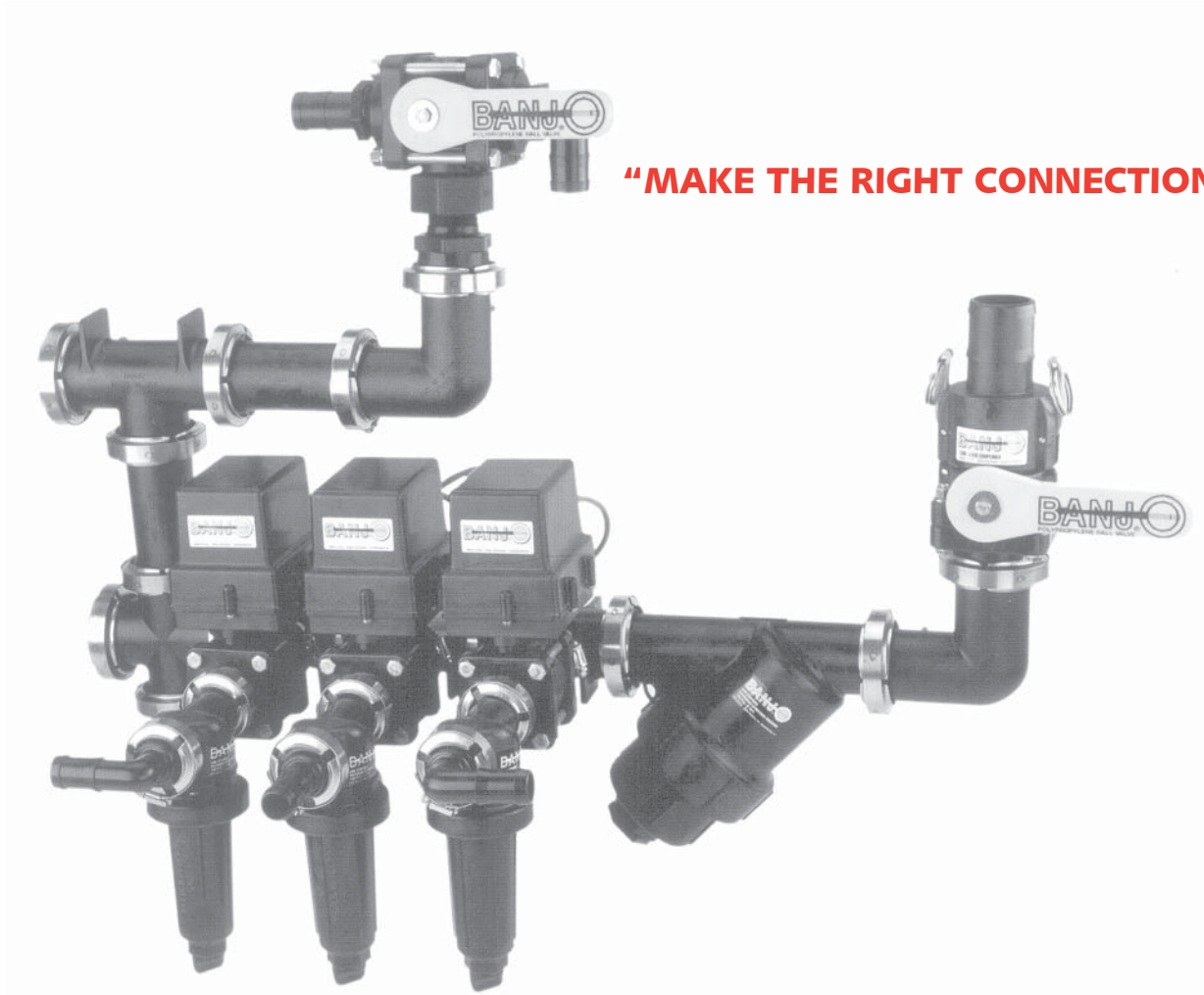


**Poly Air Actuated Shutoff Valves**



**POLY AIR ACTUATED SHUTOFF VALVES**

PART NO.	REPLACES	DESCRIPTION	MAX PSI	PIPE SIZE	PRESSURE DIFFER.
74984	PV075	3/4" x 3/4" Poly Pinch Valve	70	3/4"	15 to 20 PSI
74985	PV075V	3/4" FKM (viton type) Poly Pinch Valve	70	3/4"	15 to 20 PSI
74986	PV100	1" x 1" Poly Pinch Valve	70	1"	15 to 20 PSI
74987	PV100V	1" x 1" FKM (viton type) Pinch Valve	70	1"	15 to 20 PSI
74988	PV100-075	1" x 3/4" Poly Pinch Valve	70	1" x 3/4"	15 to 20 PSI
74989	PV100-075V	1" x 3/4" FKM (viton type) Pinch Valve	70	1" x 3/4"	15 to 20 PSI
74990	PV100-075B	1" x 3/4" Poly Pinch Valve Female Coupler	70	1" x 3/4"	15 to 20 PSI
74991	PV100-075BV	1" FPT x 3/4 Female Coupler FKM (viton type)	70	1" x 3/4"	15 to 20 PSI

**B a n j o M a n i f o l d S y s t e m s**


**“MAKE THE RIGHT CONNECTION!”**

**CONSTRUCTION**

- Heavy duty glass filled polypropylene

**CLAMPS**

- Stainless steel worm drive

**GASKETS**

- EPDM, Viton & Buna

**APPLICATIONS**

- Agricultural sprayers
- Fertilizer Plants
- Industrial Plumbing
- Chemical Processing

**FEATURES**

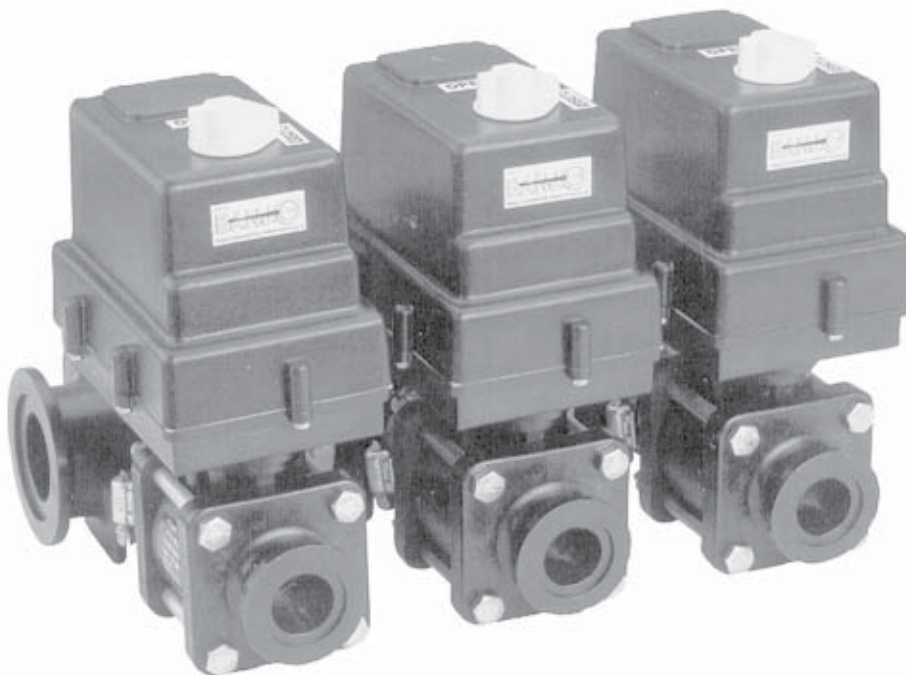
- Positive seals
- Quick & easy assembly
- Easy on/off hose connection
- 360° orientation
- No threads, no sealant, no pipe tape
- Heavy duty glass filled polypropylene

**SIZES**

- 100 series - 1" full port
- 220 series - 2" full port
- 300 series - 3" full port



**1" Banjo Electric Manifold Valve Assemblies**



**3 VALVE MANIFOLD**

PART NO.	REPLACES	DESCRIPTION	MAX PSI	PIPE SIZE	NUMBER OF VALVES
77124	MVE103CF	1" Manifold Valve Assembly (2" inlet flanges & 1" outlet flanges)	150	2" IN 1" OUT	3 Bank Valve
77698	MVE104CF	1" Manifold Valve Assembly (2" inlet flanges & 1" outlet flanges)	150	2" IN 1" OUT	4 Bank Valve
77697	MVE105CF	1" Manifold Valve Assembly (2" inlet flanges & 1" outlet flanges)	150	2" IN 1" OUT	5 Bank Valve

## Banjo Electric Manifold Valves 1" & 2" Full Port

### FEATURES

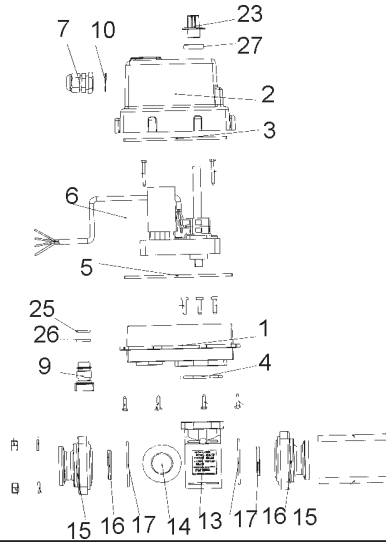
- 316 stainless steel ball & stem
- Fiberglass reinforced polypropylene
- Teflon seats
- Viton O-Rings
- 12 volt DC operated
- 150 PSI maximum pressure
- Internally fused/automatic reset



### ON/OFF ELECTRIC VALVES

PART NO.	REPLACES	DESCRIPTION	MAX PSI	FLANGE SIZE	OPENING THRU BALL	RESPONSE TIME (SEC)
76169	MVE100CF	1" full port electric ball valve	150	1"	1"	3/4
77699	MVE200CF	2" standard port electric ball valve	150	2"	1 1/2"	1 1/4
76170	MVE220CF	2" full port electric ball valve	150	2"	2"	1 1/4
77700	MVER100CF	1" full port electric ball valve	150	1"	1"	4
77701	MVER200CF	2" standard port electric ball valve	150	2"	1 1/2"	4
77702	MVER220CF	2" full port electric ball valve	150	2"	2"	4

**Replacement Parts for Manifold Valves**



ITEM	PART NO.	REPLACES	DESCRIPTION	MVE100CF	MVE200CF	MVE220CF	MVER100CF	MVER200CF	MVER220CF
1	77905	VE25101	Poly Housing for Electric Valve	✓	✓	✓	✓	✓	✓
2	77906	VE25102A	Housing Top for VE Actuator	✓	✓	✓	✓	✓	✓
3	77907	VE114*	Large Inner Gasket	✓	✓	✓	✓	✓	✓
4	76159	VE105*	Electric Valve Mounting Gasket	✓	✓	✓	✓	✓	✓
5	77908	VE116*	Large Out Gasket for Elec Valves	✓	✓	✓	✓	✓	✓
6	76164	VE4274	3/4 Sec 3 Wire On/Off Mtr	✓			✓		
6	77909	VE4097	4 Sec 4 Wire Reg Motor Assy	✓			✓		
6	77910	VE4589	1 1/4 Sec Hi Torque On/Off Mtr		✓	✓		✓	✓
6	77911	VE4708	4 Sec 12V High Torque Mtr Assm		✓	✓		✓	✓
7	76161	VE3448	Connector W/Nut for Elec. Valve	✓	✓		✓	✓	✓
9	77691	VE10151BSS	1" FP VE Weep Hole Stem 316SS	✓	✓		✓	✓	
9	77690	VE2151ASS	2" FP VE Weep Hole Stem 316SS			✓			✓
10	76162	V20060	Teflon Bearing - Gasket	✓	✓	✓	✓	✓	✓
13	76115	VE10254B	VE Bdy- 3/4 to 1 1/4" Machined	✓			✓		
13	77914	VE20254A	VE body 1 1/2 to 2" Weep Hole		✓			✓	
13	77703	VE25254A	VE Body 2" FP with Weep Hole			✓			✓
14	76116	VE10155SSH	1" Stainless Steel Hollow Ball	✓			✓		
14	77912	VE20255SS	2" VE Ball 316SS		✓			✓	
14	77913	VE25255SS	2" FP VE Ball 316SS			✓			✓
15	77704	VE10278	1" Manifold Flange End Plate	✓			✓		
15	77705	VE20294	2" Manifold Flange End Plate		✓			✓	
15	77706	VE25378	2" Manifold Flange End Plate			✓			✓
16	76118	VE10258*	Ball Seat For Electric Valve	✓			✓		
16	77919	VE20258*	1 1/2" & 2" Electric Ball Seat		✓			✓	
16	77933	VE25258*	2" FP Electric Ball Seat			✓			✓
17	76117	VE10264*	1" VE Body O-Ring FKM (viton type)	✓			✓		
17	77934	VE10264E	1" VE Body O-Ring EPDM	✓			✓		
17	77935	VE20264*	Valve Body O-Ring FKM (viton type)		✓			✓	
17	77936	VE20264E	Valve Body O-Ring EPDM		✓			✓	
17	77937	V25264*	Valve Body O-Ring FKM (viton type)			✓			✓
17	77938	V25264EP	Valve Body O-Ring EPDM			✓			✓
23	77945	VE107A	VE Flow Indicator for VE109A	✓	✓	✓	✓	✓	✓
26	77940	V10163E*	EPDM Stem O-Ring 1" & 1 1/4"	✓	✓		✓	✓	
26	76167	V10163	FKM (viton type) Stem O-Ring 1" & 1 1/4"	✓	✓		✓	✓	
26	77941	VE25163E*	2-210 EPDM O-Ring			✓			✓
26	77942	VE25163	FKM (viton type) O-Ring			✓			✓
27	77943	VE109E	Indicator Seal EPDM	✓	✓	✓	✓	✓	✓
27	77944	VE109A	Indicator Seal FKM (viton type)	✓	✓	✓	✓	✓	✓
N/S	77946	VE0200	1" Electric Valve Repair Kit	✓			✓		
N/S	77947	VE20200	2" Electric Valve Repair Kit		✓			✓	
N/S	77948	VE25200	2" FP Electric Valve Repair Kit			✓			✓

**3-Way Electric Valves-Manifold 1", 1 1/2" & 2" Full Port**

**SIDE LOAD:  
DIRECTIONAL FLOW LEFT OR RIGHT. VALVE CANNOT BE TURNED OFF**

PART NO.	REPLACES	DESCRIPTION	MAX PSI	FLANGE SIZE	OPENING THRU BALL	RESPONSE TIME (SEC)
76173	MVE100SLCF	1" full port electric valve	150	1"	1"	3/4
76174	MVE220SLCF	2" full port electric valve	150	2"	2"	1 1/4
77707	MVE200SLCF	2" standard port electric valve	150	1 1/2"	1"	1 1/4

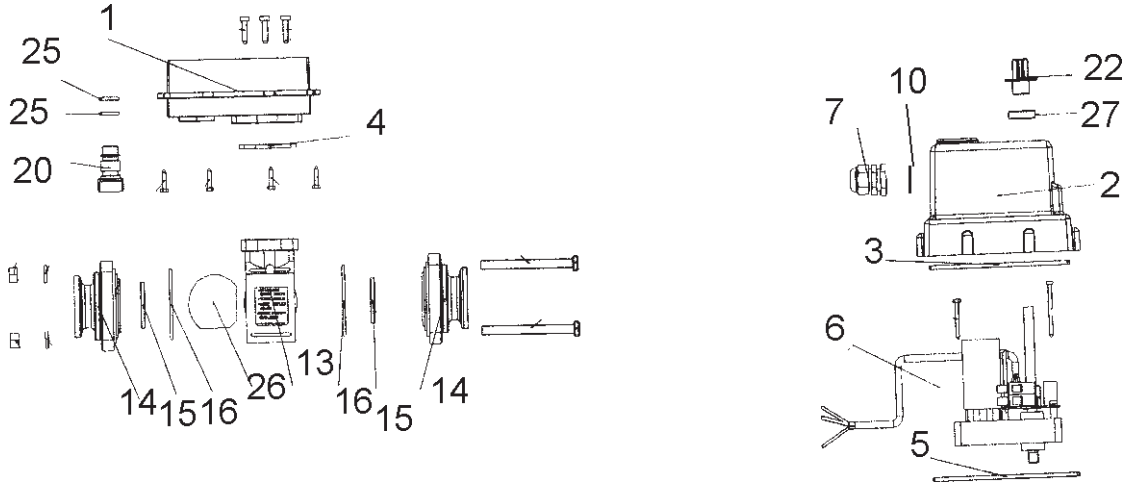


**BOTTOM LOAD:  
DIRECTIONAL FLOW LEFT OR RIGHT. VALVE CANNOT BE TURNED OFF**

PART NO.	REPLACES	DESCRIPTION	MAX PSI	FLANGE SIZE	OPENING THRU BALL	RESPONSE TIME (SEC)
76171	MVE100BLCF	1" full port electric valve	150	1"	1"	1 1/2
76172	MVE220BLCF	2" full port electric valve	150	2"	2"	2 1/2
77708	MVE200BLCF	2" standard port electric valve	150	2"	1 1/2"	2 1/2



**3-Way Electric Valve-Manifold Replacement Parts**



ITEM	PART NO.	REPLACES	DESCRIPTION	MVE100SLCF	MVE200SLCF	MVE220SLCF	MVE100BLCF	MVE200BLCF	MVE220BLCF
1	77905	VE25101	Poly Housing for Electric Valve	✓	✓	✓	✓	✓	✓
2	77906	VE25102A	Housing Top for VE Actuator	✓	✓	✓	✓	✓	✓
3	77907	VE114*	Large Inner Gasket	✓	✓	✓	✓	✓	✓
4	76159	VE105*	Electric Valve Mounting Gasket	✓	✓	✓	✓	✓	✓
5	77908	VE116*	Large Out Gasket for Elec Valves	✓	✓	✓	✓	✓	✓
6	76164	VE4274	3/4 Sec 3 Wire On/Off Mtr	✓			✓		
6	77910	VE4589	1 1/4 Sec Hi Torque On/Off Mtr		✓	✓		✓	✓
7	76161	VE3448	Connector W/Nut for Elec. Valve	✓	✓	✓	✓	✓	✓
10	76162	V20060	Teflon Bearing - Gasket	✓	✓	✓	✓	✓	✓
13	77709	MVE10354AB	VE BL Body- 3/4 to 1 1/4" Weep Hole				✓		
13	77710	MVE10354AS	VE SL Body-3/4 to 1 1/4" Weep Hole	✓					
13	77711	MVE20354AB	VE BL Body 1 1/2 to 2" Weep Hole					✓	
13	77686	MVE20354AS	VE SL Body 1 1/2 to 2" Weep Hole		✓				
13	77712	MVE25354AB	VE BL Body -2" FP w/Weep Hole						✓
13	77684	MVE25354AS	VE SL Body -2" w/Weep Hole			✓			
14	77704	VE10278	1" Manifold Flange End Plate	✓			✓		
14	77705	VE20294	2" Manifold Flange End Plate		✓			✓	
14	77706	VE25378	2" Manifold Flange End Plate			✓			✓
15	76118	VE10258*	1" Ball Seat for Electric Valve	✓			✓		
15	77919	VE20258*	2" Standard Port Elec. Ball Seat		✓			✓	
15	77933	VE25258*	2" FP Electric Ball Seat			✓			✓
16	76117	VE10264*	1" VE Body O-Ring FKM (viton type)	✓			✓		
16	77934	VE10264E	1" VE Body O-Ring EPDM	✓			✓		
16	77935	VE20264*	1" VE Body O-Ring FKM (viton Type)		✓			✓	
16	77936	VE20264E	1" VE Body O-Ring EPDM		✓			✓	
16	77937	V25264*	Valve Body O-Ring FKM (viton type)			✓			✓
16	77938	V25264EP	Valve Body O-Ring EPDM						✓
20	77691	VE10151BSS	1" FP VE Weep Hole Stem 316SS	✓	✓		✓	✓	
20	77690	VE25151ASS	2" FP VE Weep Hole Stem 316SS			✓			✓
22	77945	VE107A	VE Flow Indicator	✓	✓	✓	✓	✓	✓
25	77940	V10163E*	EPDM Stem O-Ring 1" & 1 1/4"	✓	✓	✓	✓	✓	✓
25	76167	V10163	FKM (viton type) Stem O-Ring 1" & 1 1/4"	✓	✓	✓	✓	✓	✓
26	77695	VE10355BL	1" FP Bottom Load VE Ball 316SS				✓		
26	77696	VE10355	1" FP VE Ball 316SS	✓					
26	77693	VE20355BL	2" Bottom Load VE Ball 316SS					✓	
26	77694	VE20355	2" VE Ball 316SS		✓				
26	77713	VE25355BL	2" FP Bottom Load VE Ball 316SS						✓
26	77692	VE25355	2" FP VE Ball 316SS			✓			
27	77943	VE109E	Indicator Seal EPDM	✓	✓	✓	✓	✓	✓
27	77944	VE109A	Indicator Seal FKM (viton type)	✓	✓	✓	✓	✓	✓
N/S	77946	VE10200	1" Electric Valve Repair Kit	✓			✓		
N/S	77947	VE20200	2" Electric Valve Repair Kit		✓			✓	
N/S	77948	VE25200	2" FP Electric Valve Repair Kit			✓			✓



**B a n j o M a n i f o l d V a l v e s**



PART NO.	REPLACES	DESCRIPTION
76456	MVS220FP	2" full port flange 2" Female thread stubby ball valve
77742	VSMT200CF	2" Standard Port Flange x 2" Male NPT
77744	MVSMT300	3" Standard Port Flange x 3" Male NPT

PART NO.	REPLACES	DESCRIPTION
76457	MVSF220FP	2" full port flange x 2" Male adapter stubby ball valve
77743	VSF200CF	2" Standard Flange x 2" Male Adapter
77745	MVSF300	3" Standard Port Flange x 3" Male Adapter



PART NO.	REPLACES	DESCRIPTION
76462	MV100CF	1" x 1" flange valve
76463	MV200CF	2" x 2" standard port flange ball valve
76464	MV220CF	2" x 2" full port flange ball valve

PART NO.	REPLACES	DESCRIPTION
76479	MV300CF	3" flange x 3" flange ball valve Full Port
77741	MV300	3" flange x 3" flange ball valve Standard Port

**MALE**



**FEMALE**

PART NO.	REPLACES	DESCRIPTION
76484	DM200ACF	2" std. port flange - male dry-mate
76492	DM200DCF	2" std. port flange - female dry-mate

**3-way Bottom Load Poly Valve**

Directional flow, right or left  
Valve can be turned off to stop flow.



PART NO.	REPLACES	DESCRIPTION	PSI	PIPE SIZE	BALL
76493	MV100BL	1" flanges x 1" FPT inlet	100	1"	1"
76494	MV200BL	2" std. port flanges x 1 1/2" FPT inlet	100	2"	2"
76495	MV220BL	2" full port flanges x 2" FPT inlet	100	2"	2"



**3-Way Side Load Poly Valve**

Directional flow, right or left.  
Valve cannot be turned off.

PART NO.	REPLACES	DESCRIPTION	PSI	PIPE SIZE	BALL
76502	MV100SL	1" flanges x 1" FPT inlet	100	1"	1"
76503	MV200SL	2" std. port flanges x 1 1/2" FPT inlet	100	2"	2"
76504	MV220SL	2" full port flanges x 2" FPT inlet	100	2"	2"

**Banjo Manifold Fittings**



PART NO.	REPLACES	DESCRIPTION
76175	M100CPG	1" x 1" flange
76176	M220CPG	2" x 2" full port flange
77746	M200CPG	2" x 2" Standard port flange
77747	M300CPG	3" x 3" Full port flange

PART NO.	REPLACES	DESCRIPTION
77748	M100050FPT	1" flange x 1/2" Pipe Thread
77749	M100075FPT	1" flange x 3/4" Pipe Thread
76186	M100FPT	1" flange x 1" Pipe Thread
76187	M200FPT	2" standard port flange x 1 1/2" Pipe Thread
77750	M220FPT	2" FP Flange x 2" Pipe Thread
77751	M300FPT	3" flange x 3" Pipe Thread



PART NO.	REPLACES	DESCRIPTION
76177	M100CPG90	1" x 1" flange 90°
76178	M220CPG90	2" x 2" full port flange 90°
77752	M200CPG90	2" x 2" Standard port flange 90°
77753	M200CPG90SH	2" x 2" Standard port flange 90° short
76179	M300CPG90	3" x 3" flange 90°

PART NO.	REPLACES	DESCRIPTION
77754	M100075MPT	1" flange x 3/4" male thread
76207	M100MPT	1" flange x 1" male thread
76208	M100125MPT	1" flange x 1 1/4" male thread
76209	M200125MPT	2" standard port flange x 1 1/4" male thread
79294	M200150MPT	2" standard port flange x 1 1/2" male thread
77755	M200MPT	2" SP flange x 2" male thread
76222	M220MPT	2" full port flange x 2" male thread
76223	M300MPT	3" flange x 3" male thread



Stainless Steel

PART NO.	REPLACES	DESCRIPTION
77756	M100A	1" male adapter x 1" flange
77757	M200A	2" male adapter x 2" flange
76188	M220A	2" male adapter x 2" full port flange
77758	M300A	3" male adapter x 3" full port flange

PART NO.	REPLACES	DESCRIPTION
76224	M100MPTSS	1" flange x 1" male thread
76237	M200125MPTSS	2" standard port flange x 1 1/4" male thread
76238	M200150MPTSS	2" standard port flange x 1 1/2" male thread
76239	M200MPTSS	2" standard port flange x 2" male thread
77759	M220150MPTSS	2" FP flange x 1 1/2" male thread
76248	M220MPTSS	2" full port flange x 2" male thread
76309	M300MPTSS	3" flange x 3" male thread

## Banjo Manifold Fittings



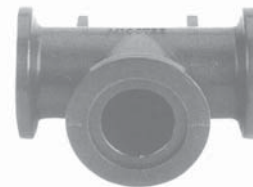
PART NO.	REPLACES	DESCRIPTION
76180	M200100CPG	2" std port x 1" reducer flange
77760	M220200CPG	2" FP x 2" SP reducer flange
77761	M300200CPG	3" x 2" SP reducer flange
76181	M300220CPG	3" x 2" full port reducer flange



PART NO.	REPLACES	DESCRIPTION
76189	M100075BRB90	1" flange x 3/4" hose barb 90° elbow
76190	M100BRB90	1" flange x 1" hose barb 90° elbow
76191	M100125BRB90	1" flange x 1 1/4" hose barb 90° elbow
76192	M200100BRB90	2" standard port flange x 1" hose barb 90° elbow
76193	M200125BRB90	2" standard port flange x 1 1/4" hose barb 90° elbow
77762	M200150BRB90	2" SP flange x 1 1/2" hose barb
77763	M200BRB90	2" SP flange x 2" hose barb
76194	M220150BRB90	2" full port flange x 1 1/2" hose barb 90° elbow
76195	M220BRB90	2" full port flange x 2" hose barb 90° elbow
77764	M300220BRB90	3" flange x 2" hose barb
76196	M300BRB90	3" flange x 3" hose barb 90° elbow



PART NO.	REPLACES	DESCRIPTION
76337	M100PLG	1" flange plug
76359	M100PLG025	1" flange plug with 1/4" FPT
77765	M200PLG	2" std. port flange plug
79293	M220PLG	2" full port flange plug
76371	M200PLG018	2" std. port flange plug with 1/8" FPT
76372	M200PLG025	2" std. port flange plug with 1/4" FPT
76373	M200PLG038	2" std. port flange plug with 3/8" FPT
76374	M200PLG050	2" std. port flange plug with 1/2" FPT
76375	M200PLG075	2" std. port flange plug with 3/4" FPT
76376	M200PLG100	2" std. port flange plug with 1" FPT
77766	M220PLG075	2" full port flange plug with 3/4" FPT
77767	M300PLG075	3" std. port flange plug with 3/4" FPT
77768	M300PLG100	3" std. port flange plug with 1" FPT
76339	M300PLG	3" flange plug



PART NO.	REPLACES	DESCRIPTION
76182	M100TEE	1" flanged tee
76183	M101TEE	1" flanged tee - long
77769	M200100TEE	2" std. port x 1" flanged tee
76184	M220TEE	2" full port flanged tee
77770	M200TEE	2" std. port flanged tee
77771	M220100TEE	2" full port x 1" flanged tee
76185	M300TEE	3" flanged tee
76185	M300TEE	3" flanged tee



PART NO.	REPLACES	DESCRIPTION
76197	M100075BRB	1" flange x 3/4" hose barb
76198	M100BRB	1" flange x 1" hose barb
76199	M100125BRB	1" flange x 1 1/4" hose barb
76201	M200100BRB	2" standard port flange x 1" hose barb
76202	M200125BRB	2" standard port flange x 1 1/4" hose barb
77818	M200150BRB	2" std. port flange x 1 1/2" hose barb
77773	M200BRB	2" std. port flange x 2" hose barb
76203	M220150BRB	2" full port flange x 1 1/2" hose barb
76204	M220BRB	2" full port flange x 2" hose barb
76205	M300220BRB	3" flange x 2" hose barb
76206	M300BRB	3" flange x 3" hose barb



PART NO.	REPLACES	DESCRIPTION
76377	M100CR	1" flanged cross
77774	M200CR	2" std. port flanged cross
76378	M220CR	2" full port flanged cross
76379	M300CR	3" flanged cross

**Banjo Manifold Tank Fittings**



**FEATURES**

- Stainless steel bolts
- Bolt head plugs sealed electronically
- Glass reinforced polypropylene
- EPDM gaskets standard



**BOLTED MANIFOLD TANK FLANGES**

PART NO.	REPLACES	OUTLET X INLET
76221	MBF100	1" flange x 1 1/2" female thread
76338	MBF200	2" std. port flange x 2" female thread
76380	MBF220	2" full port flange x 2" female thread
76381	MBF300	3" flange x 3" female thread

**BOLTED FLANGE GASKETS**

PART NO.	REPLACES	OUTLET X INLET
76382	BF100GE	1"
76383	BF200GE	1 1/2" & 2" std. port
76384	BF220GE	2" full port
76385	BF300GE	3"

**BOLTED MANIFOLD BOTTOM DRAIN TANK FLANGES**

PART NO.	REPLACES	OUTLET X INLET
76386	MBF100BD	1" flange x 1 1/2" female thread - bottom drain
76387	MBF150200BD	2" standard port flange x 1 1/2" female thread - bottom drain
76388	MBF200BD	2" standard port flange x 2" female thread - bottom drain
76389	MBF220BD	2" full port flange x 2" female thread - bottom drain
76390	MBF300BD	3" flange x 3" female thread - bottom drain

**BOTTOM DRAIN FLANGE GASKETS**

PART NO.	REPLACES	DESCRIPTION	FLANGE SIZE
76382	BF100GE	Full gasket	1"
76402	BF100GRE	Foot gasket	1"
76383	BF200GE	Full gasket	1 1/2" & 2"
76403	BF200GFE	Foot gasket	1 1/2" x 2" std. port, 2" full port
76384	BF220GE	Full gasket	2" full port
76385	BF300GE	Full gasket	3"
76404	BF300GFE	Foot gasket	3"

**MANIFOLD CLAMPS & GASKETS**

PART NO.	REPLACES	DESCRIPTION
76391	FC100	1" worm screw clamp
76392	FC200	2" standard port worm screw clamp
79292	FC220	2" full port worm screw clamp
76393	FC300	3" worm screw clamp
76394	M100GV	1" viton gasket
76512	M100G	1" EPDM gasket
73757	150G	2" standard port EPDM gasket
76395	150GV	2" standard port viton gasket
73758	200G	2" full port gasket EPDM
76396	200GV	2" full port gasket viton
73759	300G	3" EPDM gasket
76397	300GV	3" viton gasket



**U-BOLTS**

PART NO.	REPLACES	DESCRIPTION
76398	UB100	1" mounting u-bolt - SS
76399	UB200	2" standard port mounting u-bolt - SS



**45° FLANGED COUPLINGS**

PART NO.	REPLACES	DESCRIPTION
77778	M100CPG45	1" flange x 45°
77779	M200CPG45	2" flange x 45°
77780	M220CPG45	2" FP flange x 45°
77781	M300CPG45	3" flange x 45°



**FLANGE X SOCKET WELD - 316 SS**

PART NO.	REPLACES	DESCRIPTION
77775	M100SWFSS	1" Flange x 1" SW Fitting, 316 SS
77776	M220SWFSS	2" FP Flange x 2" SW Fitting, 316 SS
77777	M300SWFSS	3" Flange x 3" SW Fitting, 316 SS



## Banjo Manifold Line Strainers



- EPDM Gaskets
- 304 Stainless Steel Screens
- 75 PSI maximum



- EPDM Gaskets
- 304 Stainless Steel Screens
- 150 PSI maximum

### Y-STRAINERS

PART NO.	REPLACES	DESCRIPTION
77788	MLS200BC	2" standard port flanged Y-straight body and cap
77789	MLS200-06	2" standard port flanged Y-strainer with 6 mesh screen
77790	MLS200-12	2" standard port flanged Y-strainer with 12 mesh screen
76415	MLS200-20	2" standard port flanged Y-strainer with 20 mesh screen
76416	MLS200-30	2" standard port flanged Y-strainer with 30 mesh screen
76417	MLS200-50	2" standard port flanged Y-strainer with 50 mesh screen
76418	MLS200-80	2" standard port flanged Y-strainer with 80 mesh screen
76419	MLS200-120	2" standard port flanged Y-strainer with 120 mesh screen

### REPLACEMENT PARTS FOR 1" & 1 1/2" T-STRAINERS

PART NO.	REPLACES	DESCRIPTION
73097	MLST100-H	1" strainer head
73098	MLS150-H	1 1/2" strainer head
79287	LST100-B	1" strainer bowl
79298	LST150-B	1 1/2" strainer bowl
77374	LST100-G	Gasket fits 1"
79290	LST150-G	Gasket fits 1 1/2"
77782	LST116	16 mesh screen 1"
77372	LST130	30 mesh screen 1"
77373	LST150	50 mesh screen 1"
79285	LST180	80 mesh screen 1"
77375	LST1100	100 mesh screen 1"
77783	LST1516	16 mesh screen 1 1/2"
77378	LST1530	30 mesh screen 1 1/2"
79289	LST1550	50 mesh screen 1 1/2"
77379	LST1580	80 mesh screen 1 1/2"
77380	LST15100	100 mesh screen 1 1/2"
71519	12777	Clean out plug 1/2" for 1"
77334	LSQ200-PL	Clean out plug 1" for 1 1/2"
76540	UV15163	O-Ring for clean out plug for 71519
77335	LSQ200R	O-Ring for clean out plug for 77334

### REPLACEMENT PARTS FOR 2" Y-STRAINERS

PART NO.	REPLACES	DESCRIPTION
73099	MLS200-B	2" strainer body
77317	LS150-C	2" strainer cap
77314	LS150-G	2" gasket
77784	LS206	6 mesh screen 2"
77785	LS212	12 mesh screen 2"
77332	LS220	20 mesh screen 2"
77786	LS230	30 mesh screen 2"
77480	LS250	50 mesh screen 2"
77481	LS280	80 mesh screen 2"
77787	LS2120	120 mesh screen 2"
77334	LSQ200PL	Clean out plug 1" fits 2"
77335	LSQ200R	O-Ring for 77334 plug

**Manifold Line Strainers**

**MANIFOLD 2" FULLPORT "Y" STRAINERS**

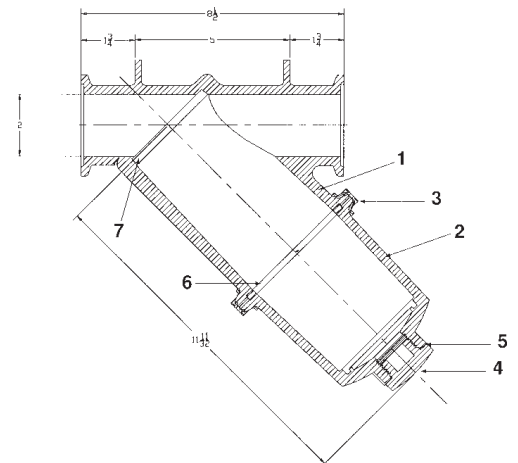
PART NO.	REPLACES	DESCRIPTION	MAX PSI
77482	MLS220BC	2" Full port flanged body and cap	100
77483	MLS220-04	2" Full port flanged "Y" strainer with 4 mesh screen	100
77484	MLS220-08	2" Full port flanged "Y" strainer with 8 mesh screen	100
77485	MLS220-10	2" Full port flanged "Y" Strainer with 10 mesh screen	100
77486	MLS220-16	2" Full port flanged "Y" strainer with 16 mesh screen	100
77487	MLS220-30	2" Full port flanged "Y" strainer with 30 mesh screen	100
77488	MLS220-50	2" Full port flanged "Y" strainer with 50 mesh screen	100
77489	MLS220-80	2" Full port flanged "Y" strainer with 80 mesh screen	100
77490	MLS220-100	2" Full port flanged "Y" strainer with 100 mesh screen	100



- EPDM Gaskets
- 316 Stainless Steel Screens
- 100 PSI maximum

**REPLACEMENT PARTS MLS220**

ITEM	PART NO.	REPLACES	DESCRIPTION
1	77772	MLS220B	2" FP Manifold Strainer Body
2	77789	MLS220C	2" FP Manifold Strainer Cap
3	77790	MLS220R	2" FP Strainer Clamp
4	77334	LSQ200-PL	Plug
5	77335	LSQ200-R	O-Ring
6	77791	MLS220G	2" FP EPDM Gasket
6	77792	MLS220GV	2" FP FKM (viton type) Gasket
7	77793	LST204SS	2" FP Strainer Screen 316SS 4 Mesh
7	77794	LST206SS	2" FP Strainer Screen 316SS 6 Mesh
7	77795	LST208SS	2" FP Strainer Screen 316SS 8 Mesh
7	77796	LST210SS	2" FP Strainer Screen 316SS 10 Mesh
7	77797	LST216SS	2" FP Strainer Screen 316SS 16 Mesh
7	77798	LST230SS	2" FP Strainer Screen 316SS 30 Mesh
7	77799	LST250SS	2" FP Strainer Screen 316SS 50 Mesh
7	77804	LST280SS	2" FP Strainer Screen 316SS 80 Mesh
7	77805	LST2100SS	2" FP Strainer Screen 316SS 100 Mesh



**Delavan Sprayer Accessories**

**MANUAL BOOM CONTROL VALVE AND MANIFOLD**

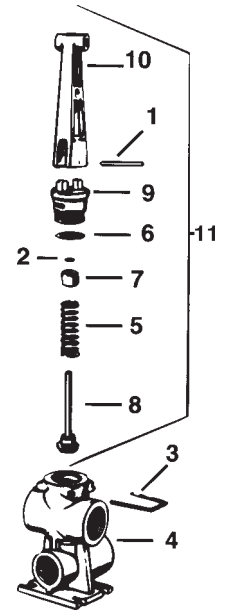
- New improved design. The body has been improved so that the pressure gauge port is in line with the in- and through-port. This is to allow for the pressure to be read when the valve is in the off position. An auxiliary port has also been added.
- Lever may be actuated from either direction.
- Body and lever are made of glass reinforced nylon.
- Holes in lever allow easy ganging with bolt or shaft. Or the valves could be shut off by a rope pulled from the cab.
- Seals Fluorocarbon (Viton)
- Ports 3/4" NPT (F) in and through port, 1/2" NPT (F) outlet to the boom.
- Gauge Port 1/4" NPT(F) blind hole (drill if used, pipe plug not necessary.)
- Auxiliary Port 3/4" NPT(F) blind hole (drill if used, pipe plug not necessary.)
- Flow 15 gpm for each valve.
- Lock pin assembly of lever to body makes this valve easy to service from the top without removal.
- Universal mounting base with slots instead of holes, allows it to replace an existing valve using the existing mounting holes. The mounting base is an integral part of valve body.
- Can be serviced in place. None of the plumbing connections need be removed for service.



**48120 BOOM CONTROL VALVE EXPLODED VIEW/REPAIR PARTS**

REF	PART NO.	REPLACES	DESCRIPTION
1	76211	13500	Roll Pin
2	76212	31352-010	O-Ring, Viton
3	76213	48846	Retaining clip
4	76214	48121	Body
5	76215	48127	Spring
6	76216	31352-117	O-Ring, Viton
7	76217	48124	Spring seat
8	76218	48123	Plunger assy.
9	76219	48122	Cap
10	76220	48125	Handle
11	76247	50287	Handle assy.

Max. recommended pressure: 125 psi (9 bars)  
Max. recommended temperature: 120°F (50°C)



PART NO.	REPLACES	DESCRIPTION
76210	48120	Manual boom control valve
73242		3/4" nylon close nipple

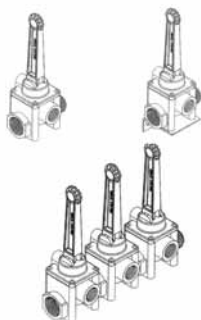
**Texas Industrial Manual Valve**

**2750 MANUAL VALVE**

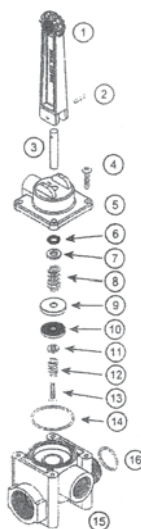
(0-10 GPM, 175 PSI)

The 2750 Manual Valve has a 3/4" NPT male and female boom and bypass and a 1/2" NPT female boom outlet. Wetted parts are made of glass filled nylon and 302 stainless. Viton seal and "O" ring are easy to replace.

The 2750 is a manual valve with a 1/4" NPT pump pressure point that needs to be drilled to function.



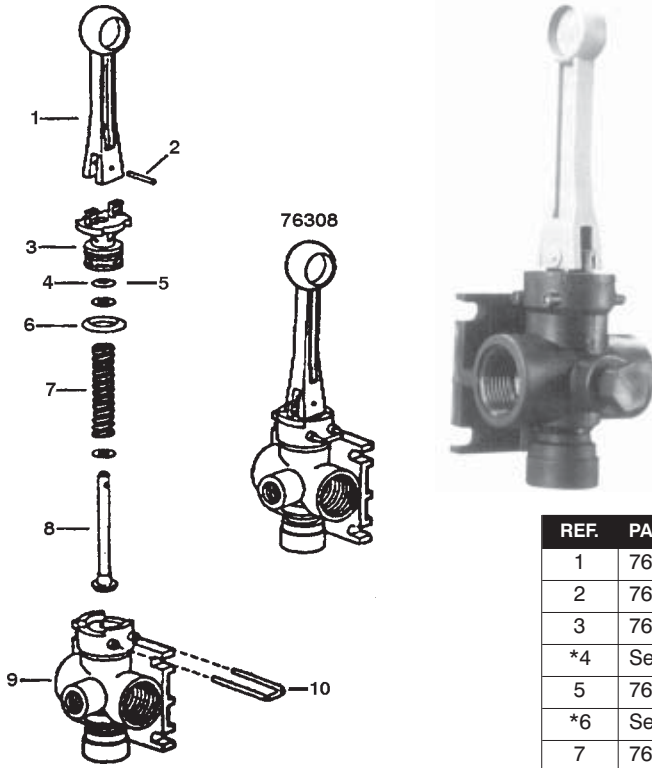
- 2148 Mounting Bracket for single valve
- 2149 Mounting Bracket for double valves
- 2151 Mounting Bracket for triple valves



REF.	PART NO.	DESCRIPTION	NO. REQ.
1	2746	Handle	1
2	5553	Roll Pin SS 3/32 x 1/2"	1
3	2748	Valve Stem	1
4	5337	No. 8 x 3/4", Screw SS	4
5	2747	Valve Top	1
6	*2414	"O" Ring .108 Viton	1
7	5338	Shaft Washer	1
8	*2776	Seat Spring	1
9	*2752	Cup Washer	1
10	*2749	Valve Seat, Viton	1
11	2775	Seat Washer	1
12	*2777	Shaft Spring	1
13	5336	No. 8 x 32 x 5/8" Truss Screw SS	1
14	*2314	"O" Ring .028 Viton	1
15	2385	10 gal. Valve Body	1
16	2166	"O" Ring .018	1
	2778	Repair Kit, items marked with *	

PART NO.	DESCRIPTION
2750	Manual Boom control valve

**TeeJet Directo Valve Control Valve**



**MANUALLY OPERATED**

- Corrosion resistant material: wetted parts polypropylene, 316SS and polyethylene.
- Maximum pressure - 150 PSI
- Large capacity 12 1/2 gpm @ 5 PSI pressure drop
- 3/4" NPT (F) inlet connection
- 1/2" NPT (F) spray line connection
- 3/4" NPT (F) continuous by-pass connection.
- Valves may be connected w/close nipples for multiple section spray control

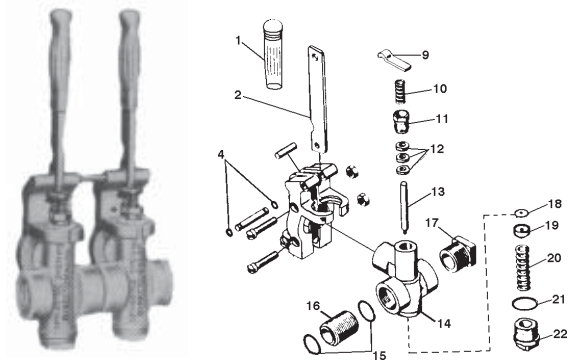
PART NO.	REPLACES	DESCRIPTION
76308	AA6B	Control valve
76336	PK-AB6B-KIT	Repair kit

REF.	PART NO.	REPLACES	DESCRIPTION
1	76360	CP36301-NY	Handle, nylon
2	76301	CP36308-SS	Groove pin, stainless steel
3	76361	CP36302-PP	Body insert, polypropylene
*4	See kit	CP7717-2-108VI	O-Ring, Viton
5	76302	CP36307-PPB	Washer
*6	See kit	CP7717-1/209-VI	O-Ring, Viton
7	76363	CP36306-316SS	Spring, type 316 stainless steel
8	76303	CP36304-316SS	Stem, type 316 stainless steel & poly
9	76364	CP36303-PP	Body, polypropylene (for model 6 B)
10	76304	CP36309-302SS	Retaining Clip
	76336	PK-AB6B KIT	Spare parts kit (includes all items marked w/*)

**Directo Valve AA3A and AA3B Series**

**COMPLETE VALVES NOT AVAILABLE - USE FOLLOWING CHART FOR ALTERNATE CHOICES.**

PART NO.	REPLACES	DESCRIPTION	REPLACE WITH
76300	AA3A-1	Single 3/8" outlet Directo Valve	
	AA3A-2	Double 3/8" outlet Directo Valve	use 2 - 76308 or 76210
	AA3A-3	Triple 3/8" outlet Directo Valve	use 3 - 76308 or 76210
	AA3B-1	Single 1/2" outlet Directo Valve	use 1 - 76308 or 76210
	AA3B-2	Double 1/2" outlet Directo Valve	use 2 - 76308 or 76210
76306	AA3B-3	Triple 1/2" outlet Directo Valve	



**PARTS LIST**

REF.	PART NO.	REPLACES	DESCRIPTION	QTY.
1	76310	CP8514-VL	Vinyl grip	1
2	76311	CP8423-1ZP	Handle	1
4	See kit*		Snap ring	2
10	See kit*		Spring	1
11	See kit*		Screw	1
12	See kit*		Packing	3
13	76321	CP8426-SS	Stem	1
14	76322	CP8339-3/8-NYB	3/8" nylon body	1
15	76324	CP8432-BU	Gasket	1

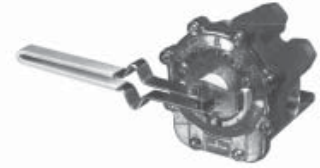
REF.	PART NO.	REPLACES	DESCRIPTION	QTY.
17	73470	CP8400-3/4	Nylon plug	1
18	76326	CP847-304SS	Washer	1
19	See kit*		Valve seat	1
20	76327	CP8428-SS	Valve spring	1
21	See kit*		Gasket	1
22	76328	CP8342-NYB	Nylon cap	1
	76329	PK-AB3-1-KIT	Repair kit marked*	



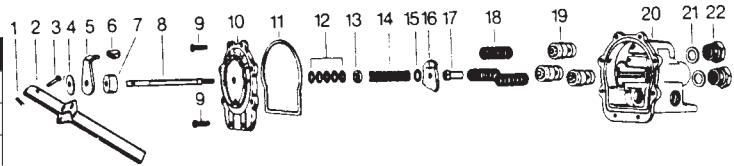
## TeeJet Sprayer Selector Valves

For selective control of three section boom sprayers at pressures up to 300 psi.

- Gives complete control of three-section boom. Control lever may be set at any of seven indexed locations for opening any of three boom section lines in any desired combination.
- Lever is raised to open and lowered to close the valve without changing the indexed position. The TeeValve remains off during selection of spraying.
- Plastic capped indexing top is self lubricating to prevent wear of the cover plate and provides smooth friction free lever movement. The "A" index setting indicates position for disassembly and reassembly of the TeeValve.
- Self-lubricating plastic poppet valves reduce poppet wear and resist "freezing" effects caused by chemical action. Aluminum construction with stainless steel and plastic internal parts for maximum corrosion resistance.



PART NO.	REPLACES	DESCRIPTION
76330	AA17B	3/8" boom, 1/2" outlets, 3/4" inlet
76334	AA17L	3/4" boom, 3/4" outlets, 3/4" inlet
76335	AA17Y	3/4" boom, 3/4" outlets, 1" inlet



REF.	PART NO.	REPLACES	DESCRIPTION	QTY.
1	See kit*		Cotter pin	1
2	76340	CP6849-1-1ZP	Handle	1
3	See kit*		Rivet	1
4	See kit*		Handle washer	1
5	76341	CP12128-1ZP	Selector shield	1
6	See kit*		Selector shield tip	1
7	76342	CP12129-CE	Spacer, Celcon	1
8	76343	CP6972-SS	Main stem	1
9	See kit*		Screws	8
10	76344	CP12126AL	Cover plate, aluminum	1
11	See kit*		Gasket, Buna-N	1
12	See kit*		Packing	5
13	76345	CP12130-SS	Packing gland	1

REF.	PART NO.	REPLACES	DESCRIPTION	QTY.
14	76346	CP7254-SS	Main spring	1
15	76347	CP7987-SS	Washer	1
16	76348	CP6971-AL	Selector conn.	1
17	76349	CP6973-SS	Guide nut	1
18	76350	CP6959-SS	Valve spring	3
19	76351	CP6956-CE	Valve stem	3
20	76352	CP6934-1/2AL	Body (for 17A thru 17F)	1
20	76353	CP6934-3/4AL	Body (for 17G thru 17L)	1
20	76366	CP6934-1 3/4-AL	Body (for 17T thru 17Y)	1
21	See kit*		Seat plate	3
22	76354	CP7261-AL	Outlet adapters (17A & 17G)	1
22	76355	CP6957-AL	Outlet adapters (17B & 17H)	1
22	76356	CP7262-AL	Outlet adapters (17C & 17I)	1
22	74396	CP-7902-AL	Outlet adapters (for 17L & 17Y)	3
22	76367	CP7350-AL	Outlet adapters (for 17J)	3
	76357	PK-AB17-KIT	Repair parts kit*	

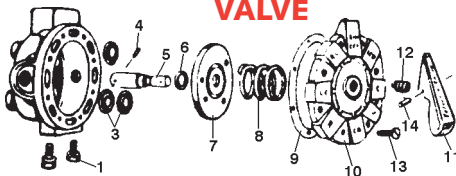
## Delavan Select-A-Spray 9900-1 Parts Only

This valve is ideal for use with roller and other high capacity pumps where volume to the boom is up to 115 l/min (30 GPM) and pressures to 700 kPa (100 PSI).

NOTE: 1/4" NPT on gauge outlet; 3/8" NPT on accessory outlet, plug furnished.

**Features:** Select-A-Spray's 8 spraying positions completely control a three section boom. An accessory outlet is provided. Viton-A O-ring seals are standard. Easily serviced without removing from spray rig or disconnecting hoses. Repair kits are available.

**SEE NEXT PAGE FOR NEW VALVE**



REF.	PART NO.	REPLACES	DESCRIPTION
1	76225	00684	Capscrew with lockwasher
3	See kit*		Outlet O-Ring
4	76227	32290-5	Shaft roll pin
5	76228	10028	Shaft
6	See kit*		Shaft O-Ring
7	76229	00674	Disc
8	76230	50067	Spring
9	See kit*		End plate gasket
10	76231	09855	End plate
11	76232	09857	Handle
12	76233	10026	Handle spring w/nylon plug
13	76234	00683	End plate screw
14	76227	32290-5	Handle roll-pin
	76235	23716	Repair parts kit, items marked*

Max. Recommended Temperature: 50°C

**Delavan Sprayer Selector Valves**



**SELECT-A-SPRAY PLUS BOOM CONTROL VALVE**

- All the selection features of the tried-and true Select-A-Spray Valve plus positive on-off lever action (without resetting) are featured in this improved valve. The best parts of the Select-A-Spray valve are combined with the manual boom control valve to give us Select-A-Spray plus. Now you can select any of eight spraying positions for a 3-section boom; then turn the valve off and on without resetting.
- An added 1/2" NPT (M) port (blind hole, drill if needed) is also featured. All ports are under pressure at all times.
- Flow rate is 15 GPM (56.8l/min). Made of glass-reinforced nylon.
- Easily serviced without removing from the boom. Pull out retaining clip to service lever assembly. Service the main part of the valve by removing handle/end plate assembly from the body. Unscrew eight end plate screws to replace O-Rings and gasket. Handle roll pin should not be removed unless absolutely necessary because it is difficult to re-insert.

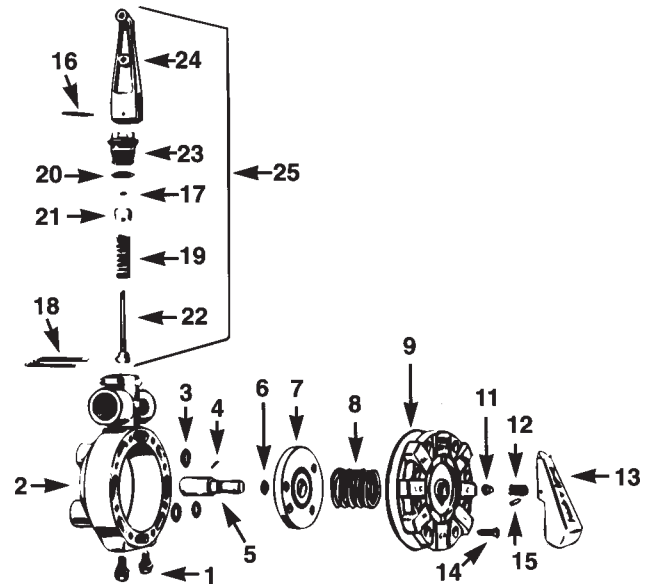
**Max. Recommended Pressure:** 100 PSI (700kPa)

**Max. Recommended Temperature:** 120°F (50°C)

PART NO.	REPLACES	DESCRIPTION
76240	50432	1/2" boom outlet, 3/4" inlet and bypass port, 1/4" gauge outlet, 1/2" accessory outlet

**REPLACEMENT PARTS**

REF.	PART NO.	REPLACES	DESCRIPTION	QTY.
1	76225	00684	Capscrew w/lockwasher	2
2	76241	50430	Body - 1/2 NPT (F) outlets	1
3	76242	02228	Outlet O-Ring	3
4	76227	32290-5	Shaft roll pin	1
5	76228	10028	Shaft	1
6	76243	31352-012	Shaft O-Ring	1
7	76229	00674	Disc	1
8	76230	50067	Spring	1
9	70821	24819	End plate gasket	1
12	76233	10026	Handle spring	1
13	76232	09857	Handle	1
14	76234	00683	End plate screw	8
15	76227	32290-5	Handle roll pin	1
16	76211	13500	Lever roll pin	1
17	76212	31352-010	Lever O-Ring, Viton	1
18	76213	48846	Retaining clip	1
19	76215	48127	Spring	1
20	76216	31352-117	O-Ring, Viton	1
21	76217	48124	Spring seat	1
22	76218	48123	Plunger assy.	1
23	76219	48122	Cap	1
24	76220	48125	Handle	1
25	76247	50287	Handle assembly (includes ref. 16, 17, 19, 20, 21, 22, 23, 24)	
	76235	23716	Body repair kit (includes ref. 3, 6, 9, 17, 20)	



## Delavan Shut-Off Control/Pressure Regulator

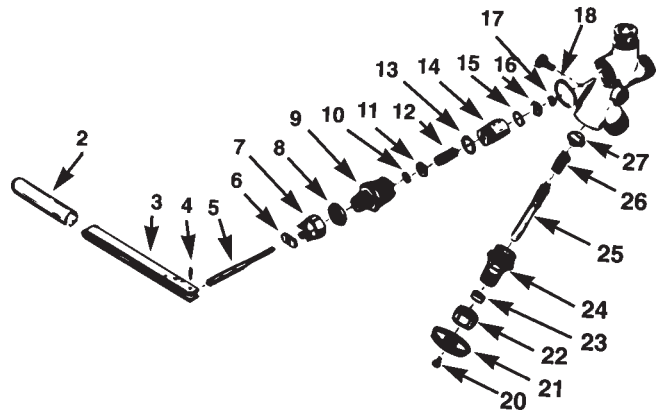


**Compactrol:** This valve is a combination pressure regulating valve and shut-off control for accurate adjustment or control of chemical flow to the sprayer boom, broadcast nozzle or handgun. Can be used with any 6, 7, or 8 roller pumps with pressures up to 285 PSI (2000 kPa)

**Features:** Constructed of heavy, durable brass with a stainless steel spring, its compact size fits into tight quarters. It is designed to eliminate the need for extra pipe fitting...saving both space and assembly time. Inlet, outlet and bypass are all garden hose thread and the pressure gauge mounting hole is 1/4 FPT.

Max. Recommended Temperature: 120°F(50°C)

Pressure Range: 0-285 PSI (0-2000 kPa)



### 33873-1 REPLACEMENT PARTS ONLY

REF.	PART NO.	REPLACES	DESCRIPTION	QTY.
8	76257	33898	Lock nut	1
10	76212	31352-010	O-Ring	1
20	76268	27848	Screw	1
21	76269	27849	Round handle	1
22	76270	27851	Packing nut	1
23	76271	27852	Packing	1
24	76272	27859	Bonnet nut	1
25	76273	27858	Stem	1
26	76274	15843	Spring	1

**Teejet Nylon Pressure Relief Valves**

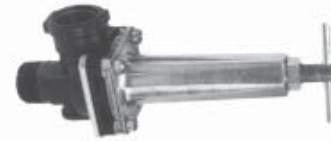
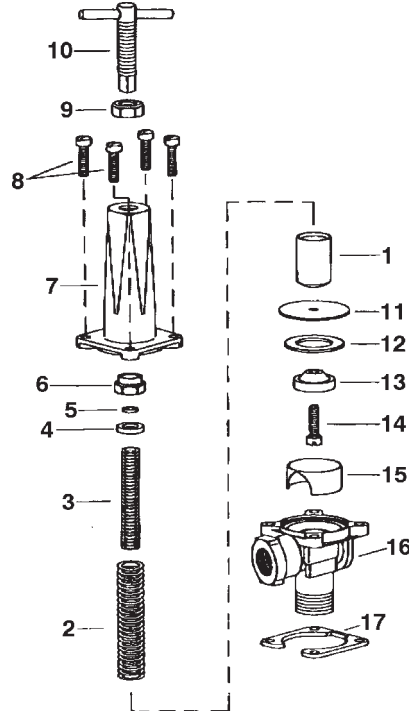
**SPRAYING SYSTEMS**

PART NO.	REPLACES	DESCRIPTION
76460	8460-1/2	Nylon valve with 1/2" NPT connections
76461	8460-3/4	Nylon valve with 3/4" NPT connections

**Diaphragm Type Pressure Relief/Regulating Valves**

Bypasses excess liquid. Choice of 1/2" and 3/4" NPT sizes. Chemical resistant diaphragm seals off operating parts from contact with chemicals...remains resilient for chatter-free, responsive pressure control.

Nylon inlet body with aluminum bonnet. Choice of 1/2" or 3/4" NPT (M) inlet and (F) outlet connections. Flow rates to 56 gpm for 1/2" size and to 70 gpm for 3/4" size. Pressures to 300 PSI



**8460 SERIES RELIEF VALVE PARTS**

REF.	PART NO.	REPLACES	DESCRIPTION
1	76465	CP8367-AL	Guide sleeve
2	See kit*		Outside spring
3	See kit*		Inside spring
4	76466	CP8371-AL	Spring retainer
5	See kit*		Washer, nylon
6	76467	CP8368-SS	Adjusting nut
7	76468	CP8362-AL	Bonnet
8	76469	CP7688-IZP	Screw
9	76470	CP5898-AL	Lock nut
10	76471	CP5896-ALSS	Adjusting stem
11	See kit*		Diaphragm
12	76472	CP8365-304SS	Stop ring
13	See kit*		Seat, nylon
14	76473	CP8477-SS	Screw
15	76474	CP8389-304SS	Chamber insert
16	76475	CP8361-1/2NYB	Body, nylon 1/2"
16	76476	CP8361-3/4NYB	Body, nylon 3/4"
17	76477	CP9017-IZP	Clamp plate
	73467	CP8400-1/4	Pipe plug nylon
*	76478	PK-AB8460-KIT	Repair parts kit - items marked *

**Nylon Pressure Relief Valves**

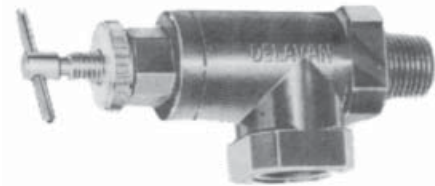
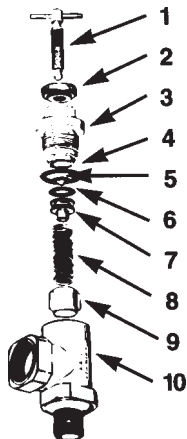
**DELAVAN**

PART NO.	REPLACES	DESCRIPTION
76400	13895-1	Nylon valve (0-250 psi) 1/2" inlet, 3/4" outlet
76401	13895-2	Nylon valve (0-250 psi) 3/4" inlet, 3/4" outlet

The nylon pressure relief valve is used for accurate pressure regulation and bypass on all types of sprayers...fertilizer, insecticide and herbicide rigs.

**Features:**

- Designed to be used up to 15 gpm
- Nylon for maximum corrosion resistance
- Stainless steel spring
- Positive Viton seal prevents leakage and for best chemical resistance
- Knurled locknut for ease of adjustment
- 1/2" & 3/4" NPT (M) inlet & 3/4" NPT (F) outlet



**13895 SERIES RELIEF VALVE PARTS**

REF.	PART NO.	REPLACES	DESCRIPTION
1	76405	35571-1	Screw pin assembly
2	76406	1345-1	Locknut
3	76407	13589	Cap
4	70881	31352-213	O-ring
5	76408	1342	Spring guide
6	76263	31352-113	O-ring
7	76409	12522	Spring retainer
8	76410	12523	Spring
9	76411	13588	Valve seat
10	76412	13896	Body (for 13895-1)
10	76413	13591	Body (for 13895-2)
	76414		Repair kit

## TeeJet Brass and Ductile Iron Pressure Relief Valves



**MODEL  
110-1/4  
AND 110-3/8**



**MODEL 110-1,  
110-1 1/4 AND  
110-1 1/2**

### MODEL 110

- Removable bonnet for servicing unit without removing valve from line

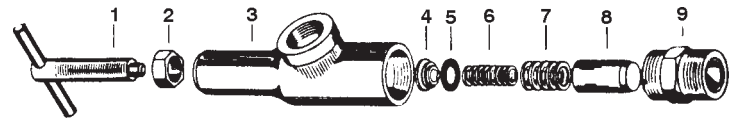
PART NO.	REPLACES	DESCRIPTION
76480	AA110-1/4-300	Brass relief valve (300 PSI) 1/4"
74284	AA110-3/8-300	Brass relief valve (300 PSI) 3/8"
74285	AA110-1	Brass relief valve (150 PSI) 1"
74286	AA110-1 1/4	Brass relief valve (150 PSI) 1 1/4"
74287	AA110-1 1/2	Brass relief valve (150 PSI) 1 1/2"
77501	AA110-1DI	Ductile Iron (150 PSI) 1"
77502	AA110-1 1/4-DI	Ductile Iron (150 PSI) 1 1/4"
76483	AA110-1 1/2-DI	Ductile Iron (150 PSI) 1 1/2"

## TeeJet Piston Type Pressure Relief/Regulating Valves

- Brass with stainless steel springs
- Choice of 1/2", or 3/4" NPT (M) inlet and (F) outlet connections
- For pressures to 300 PSI



**6815**



### 6815 SERIES RELIEF VALVE PARTS

REF.	PART NO.	REPLACES	DESCRIPTION
1	76485	CP5896	Stem, brass
2	76486	CP5898	Lock nut, brass
3	76487	CP6818-1/2	Body, brass (for 6815-1/2)
3	76488	CP6818-3/4	Body, brass (for 6815-3/4)
4	See kit*		Spring retainer, brass
5	See kit*		Gasket
6	See kit*		Inside spring
7	See kit*		Outside spring
8	See kit*		Guide seat, brass
9	76489	CP6789	1/2" inlet adapter, brass
9	76490	CP7059	3/4" inlet adapter, brass
	76491	PKAB6815-300-KIT	Repair kit, items marked *

### TEEJET

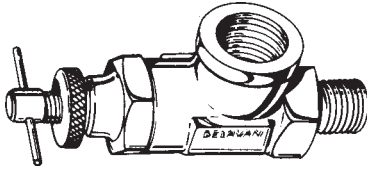
PART NO.	REPLACES	DESCRIPTION	PSI
76481	6815-1/2-300	Brass	300
78403	6815-1/2-700	Brass	700
76482	6815-3/4-300	Brass	300
77500	6815-3/4-700	Brass	700

## Relief Valve Solid Brass Construction

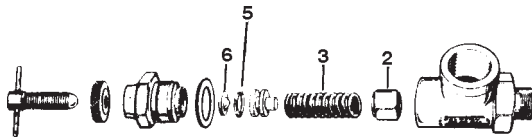
PART NO.	DESCRIPTION	PSI
77527	3/4" Relief Valve Brass 3/4" MPT inlet, 3/4" FPT outlet	(300 PSI)
77528	3/4" Relief Valve Brass 3/4" MPT inlet, 3/4" FPT outlet	(700 PSI)



**Delavan Brass Pressure Relief Valves**



- Designed to be used up to 15 gpm
- Brass for durability and strength
- Stainless steel spring
- Positive Viton seal prevents leakage and for best chemical resistance
- Knurled locknut for ease of adjustment
- 1/2" & 3/4" NPT (M) inlet & 3/4" NPT (F) outlet



**DELAVAN**

PART NO.	REPLACES	DESCRIPTION
76420	37562-1	Brass valve (0-100 PSI) 1/2" inlet, 3/4" outlet
76421	37562-2	Brass valve (100-250 PSI) 1/2" inlet, 3/4" outlet
76422	37562-5	Brass valve (0-100 PSI) 3/4" inlet, 3/4" outlet
76423	37562-6	Brass valve (100-250 PSI) 3/4" inlet, 3/4" outlet

**37562 SERIES RELIEF VALVE PARTS**

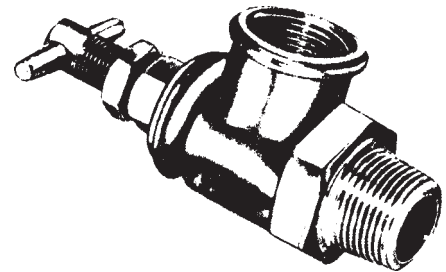
REF.	PART NO.	REPLACES	DESCRIPTION
2	76427	37627	Valve
3	76428	22273	Spring (0-100 PSI)
3	76410	12523	Spring (100-250 PSI)
3	76429	18892	Spring (250-400 PSI)
3	76430	37565	Spring (400-700 PSI)
5	76263	31352-113	O-Ring
6	76408	1342	Spring guide

**Brass Pressure Relief Valves**

**HAMILTON**

Pressure to 600 lbs.

PART NO.	REPLACES	DESCRIPTION
76458	2041-1	Brass valve, 1/2" connections
76459	2053-1	Brass valve, 3/4" connections



**PRESSURE RELIEF MANIFOLD**

PART NO.	REPLACES	DESCRIPTION
75060	2142-2	Aluminum manifold-by-pass 0-600 PSI, (1) 1/2" inlet, (3) 3/8" & (1) 1/4" outlet



## TeeJet Aluminum Pressure Relief Valves

### Piston Type Pressure Relief/Regulating Valves

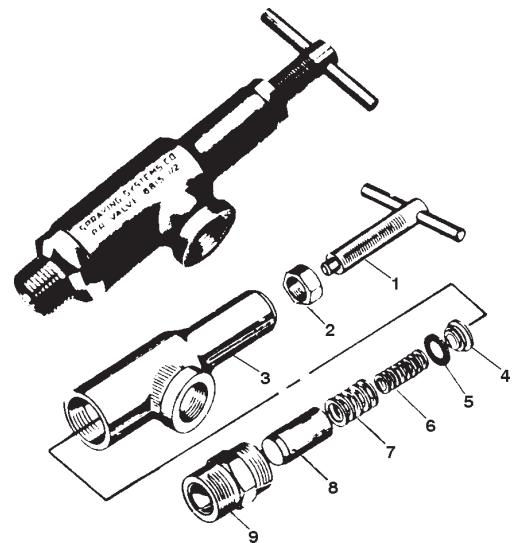
- Aluminum with stainless steel springs
- Choice of 1/2" or 3/4" NPT (M) inlet and (F) outlet connections
- For pressures to 300 PSI

### 6815 SERIES RELIEF VALVE PARTS

REF.	PART NO.	REPLACES	DESCRIPTION
1	76471	CP5896-SS	Stem, aluminum & SS
2	76470	CP5898-AL	Lock nut, aluminum
3	76505	CP6818-1/2-AL	Body, aluminum (for 6815-AL-1/2)
3	76506	CP6818-3/4-AL	Body, aluminum (for 6815-AL-3/4)
4	See kit*		Spring retainer, aluminum
5	See kit*		Gasket
6	See kit*		Inside spring
7	See kit*		Outside spring
8	See kit*		Guide seat, aluminum
9	76507	CP6789-ALEF	1/2" inlet adapter, aluminum
9	76508	CP7059-ALEF	3/4" inlet adapter, aluminum
	76509	PKAB6815-AL300-KIT	Repair kit, items marked *

### SPRAYING SYSTEMS

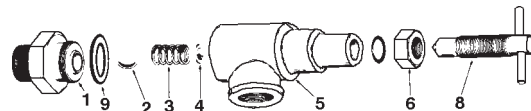
PART NO.	REPLACES	DESCRIPTION
76500	6815-1/2-AL-300	Aluminum relief valve, 0-300 PSI (with 1/2" connections)
77503	6815-1/2-AL-700	Aluminum relief valve, 0-700 PSI (with 1/2" connections)
76501	6815-3/4-AL-300	Aluminum relief valve, 0-300 PSI (with 3/4" connections)
77504	6815-3/4-AL-700	Aluminum relief valve, 0-700 PSI (with 3/4" connections)



## Aluminum Pressure Relief Valves

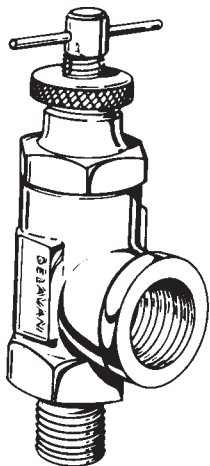
### DELVAN

PART NO.	REPLACES	DESCRIPTION
76441	2351-7	Aluminum valve (0-250 psi) 1/2" inlet, 3/4" outlet
76440	2351-6	Aluminum valve (0-250 psi) 3/4" inlet, 3/4" outlet



### 2351 SERIES RELIEF VALVE PARTS

REF.	PART NO.	REPLACES	DESCRIPTION
1	76445	1339-2	Inlet adapter (1/2" NPTM)
1	76446	1339-1	Inlet adapter (3/4" NPTM)
2	76447	2357-2	Ball (stainless steel)
3	76448	2533	Spring (0-250 psig)
4	76408	1342	Spring retainer
5	76449	2775	Body (3/4" NPTF outlet)
7	76451	2356	Locknut
8	76452	35571-3	Handle and screw assembly
9	76453	36517	Seal



- Designed to be used up to 15 GPM
- Die cast aluminum for corrosion resistance
- Stainless steel ball & spring
- High volume bypass capacity
- 1/2" & 3/4" NPT (M) inlet & 3/4" NPT (F) outlet
- Controls pressures up to 250 PSI

**TeeJet Directo Valve Manual Pressure Relief/Regulating Valves**

**Piston-Type Pressure Relief/Regulating Valves**

Bypasses excess liquid. Adjustable to maintain control of line pressure at any pressure within the valve's operating range. Selected pressure setting firmly held in place by locknut. Extra large valve passages to handle large flows.



Model 23120

- Stainless steel spring
- Excellent chemical resistance
- 1/4"-blind port for pressure gauge to be drilled by customer

Model 23120A

- Same as 23120 but with 316SS spring and Viton O-Ring

PART NO.	REPLACES	INLET & PIPE CONNECTIONS	MATERIAL	PRESSURE RANGE
74506	23120-1/2-PP	1/2	Polypropylene	100 PSI
74288	23120-3/4-PP	3/4	Polypropylene	100 PSI
74289	23120A-1/2-PP	1/2	Polypropylene	100 PSI
74290	23120A-3/4-PP	3/4	Polypropylene	100 PSI

**TeeJet Throttling Valves**

For regulating flow in systems equipped with centrifugal pumps where sensitive regulation is required or to control flow in jet agitator return lines. Locknut holds pressure setting firmly in place.

**TYPE 23520**

- Polypropylene construction for excellent chemical resistance.
- Pressures to 150 PSI (10 bar).
- 1/2" and 3/4" NPT connections.
- 10 PSI pressure drop at 6 gpm flow rate for 1/2"; 18 gpm for 3/4" size.



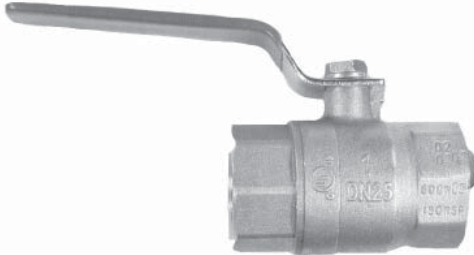
**TYPE 12795**

- Pressure to 150 PSI (10 bar).
- Available in brass and aluminum.
- Choice of 1", 1 1/4" or 1 1/2" NPT connections
- Maximum flow rate at 40 PSI (3 bar) – 116 gpm (440 l/min) flow rate for 1" and 1 1/4" sizes and 172 gpm (651 l/min) for 1 1/2" size.

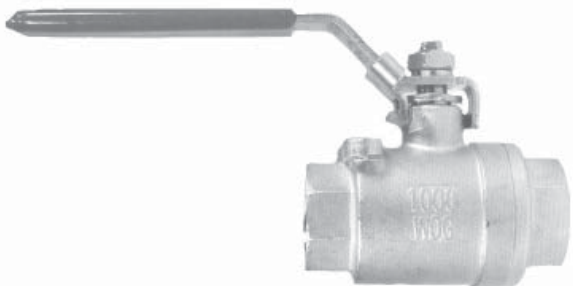


PART NO.	REPLACES	DESCRIPTION	PSI
74291	23520-1/2-PP	Valve poly	150 PSI
74292	23520-3/4-PP	Valve poly	150 PSI
76496	12795-1	Valve brass	150 PSI
76497	12795-1-AL	Valve aluminum	150 PSI
76498	12795-1-1/4	Valve brass	150 PSI
76499	12795-1-1/4-AL	Valve aluminum	150 PSI
74295	12795-1-1/2	Valve brass	150 PSI
74296	12795-1-1/2-AL	Valve aluminum	150 PSI




**Brass, Stainless Steel and Carbon Steel Valves**
**BRASS FULL PORT 400 WOG**


PART NO.	REPLACES	DESCRIPTION
76000	FBV-25	1/2" lever ball valve - brass
76013	FBV-38	3/8" lever ball valve - brass
76001	FBV-50	1/2" lever ball valve - brass
76002	FBV-75	3/4" lever ball valve - brass
76003	FBV-100	1" lever ball valve - brass
76004	FBV-125	1 1/4" lever ball valve - brass
76005	FBV-150	1 1/2" lever ball valve - brass
76006	FBV-200	2" lever ball valve - brass
76128	FBV-250	2 1/2" lever ball valve - brass
76129	FBV-300	3" lever ball valve - brass
76130	FBV-400	4" lever ball valve - brass

**STAINLESS STEEL 600 WOG**


PART NO.	REPLACES	DESCRIPTION
77507	FBV-25SS	1/4" lever ball valve
77508	FBV-38SS	3/8" lever ball valve
77509	FBV-50SS	1/2" lever ball valve
77510	FBV-75SS	3/4" lever ball valve
77511	FBV-100SS	1" lever ball valve
77512	FBV-125SS	1 1/4" lever ball valve
77513	FBV-150SS	1 1/2" lever ball valve
77514	FBV-200SS	2" lever ball valve
77515	FBV-250SS	2 1/2" lever ball valve
77516	FBV-300SS	3" lever ball valve

**BLACK CARBON STEEL 2000 PSI**


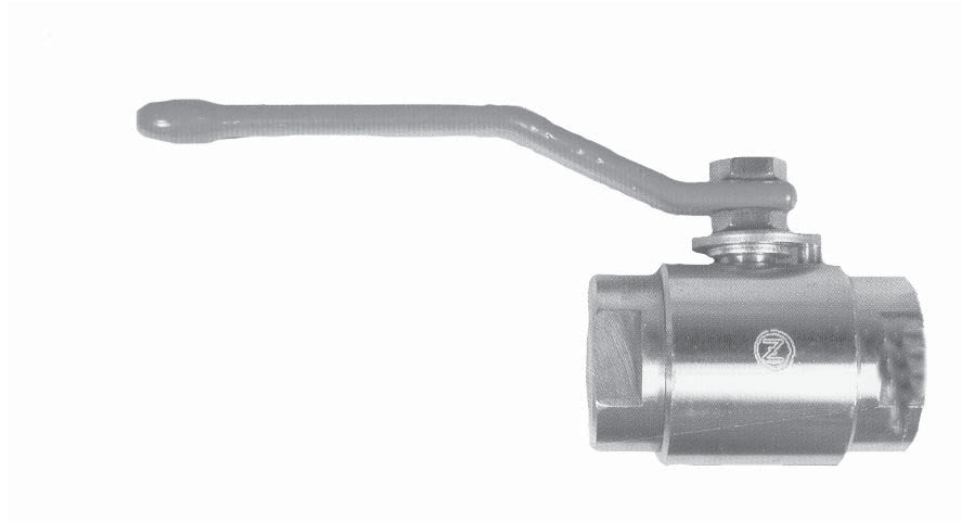
PART NO.	REPLACES	DESCRIPTION
77491	1/4"	Full port SS ball valve
77492	3/8"	Full port SS ball valve
77493	1/2"	Full port SS ball valve
77494	3/4"	Full port SS ball valve
77495	1"	Full port SS ball valve
77496	1 1/4"	Full port SS ball valve
77497	1 1/2"	Full port SS ball valve
77498	2"	Full port SS ball valve

**F u l l P o r t B a l l V a l v e s**

**STAINLESS STEEL**

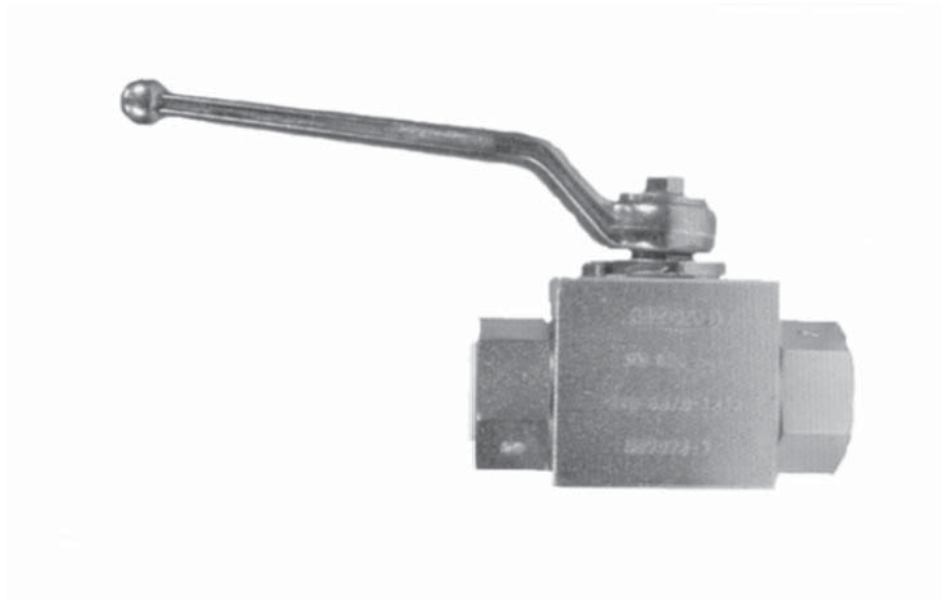
**FULL PORT BALL VALVE**

Max Pressure 6,000 PSI  
Thread 3/8" FNPT  
Material Stainless Steel  
Part No. 75228



**FULL PORT BALL VALVE**

Max Pressure 7,350 PSI  
Thread 3/8" FNPT  
Material Steel  
Part No. 75229



## V a l v e s

**BRASS GATE VALVE 200 PSI**

PART NO.	REPLACES	DESCRIPTION
76022	H801	3/8" brass gate valve
76007	35035	1/2" brass gate valve
76008	35036	3/4" brass gate valve
76009	35037	1" brass gate valve
76010	35038	1 1/4" brass gate valve
76011	35039	1 1/2" brass gate valve
76012	34199	2" brass gate valve
76015	H808	2 1/2" brass gate valve
76016	H809	3" brass gate valve
77832	H810	4" brass gate valve

**CELCON GATE VALVE**

PART NO.	REPLACES	DESCRIPTION
76044	12-0012	1" celcon gate valve
76045	12-0013	1 1/4" celcon gate valve
76046	12-0014	1 1/2" celcon gate valve

**GLOBE VALVE**

PART NO.	REPLACES	DESCRIPTION
76040	12-0009	1/2" celcon globe valve
76041	12-0010	3/4" celcon globe valve

**CELCON & BRASS DRAIN VALVE**

PART NO.	REPLACES	DESCRIPTION
76049	3030-V	3/4 MGHT x 1/2 MPT celcon valve
76050	4030-V	3/4 MGHT x 3/4 MPT celcon valve
76131	SF-50	3/4 MGHT x 1/2 MPT brass valve
76132	SF-75	3/4 MGHT x 3/4 MPT brass valve

**BRASS BALL VALVE 500 PSI**

PART NO.	REPLACES	DESCRIPTION
76021	5-V	3/4" brass ball valve

**BRASS BALL VALVE 500 PSI**

PART NO.	REPLACES	DESCRIPTION
77519	050-8F8F	1/2" brass ball valve

**V a l v e s**



**MINI BRASS BALL VALVES**

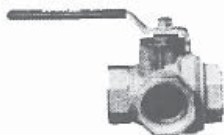
- 200 PSI rating
- -4° to 250°F temperature rating
- Chromed brass body, ball and stem
- Teflon® seat and Viton® seals

PART NO.	DESCRIPTION
77558	1/8 FNPT x FNPT
77559	1/8 FNPT x MNPT
77560	1/4 FNPT x FNPT
77561	1/4 FNPT x MNPT
77562	3/8 FNPT x FNPT
77563	3/8 FNPT x MNPT
77564	1/2 FNPT x FNPT
77565	1/2 FNPT x MNPT



**BRASS LEVER**

PART NO.	REPLACES	DESCRIPTION
76018	1-V	1/2" brass lever valve
76019	2-V	3/4" brass lever valve



**BRASS 3-WAY 400 WOG**

PART NO.	REPLACES	DESCRIPTION
77518	3BU050	1/2" brass 3-way valve
77505	3BV075	3/4" brass 3-way valve
77506	3BV100	1" brass 3-way valve



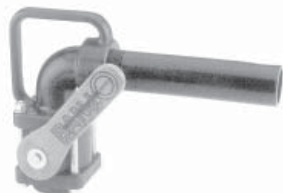
**BRASS 3-WAY 400 PSI**

PART NO.	REPLACES	DESCRIPTION
76025	752-8F	1/2" brass 3-way valve



**ACE/VALVTEC BALL VALVES 400 PSI**

PART NO.	REPLACES	DESCRIPTION
76053	1606CSW	3/4" ratchet valve w/S.S. ball
76054	1608CSW	1" ratchet valve w/S.S. ball



**BANJO POLY NOZZLE**

PART NO.	REPLACES	DESCRIPTION
76060	VA-150	1 1/2" poly nozzle valve
76061	VA-200	2" poly nozzle valve



**BANJO POLY NOZZLE**

PART NO.	REPLACES	DESCRIPTION	PIPE SIZE
76085	VN-100	Poly nozzle valve	1"
76086	VN-10200	Repair Kit	

## Ball and Check Valves



### GARDEN HOSE THREAD BALL VALVE

PART NO.	DESCRIPTION
74682	3/4" GHT ball valve
76810	"Y" connector with dual shut-off converts one faucet to two with separately controllable outlets



### PVC COMPACT BALL VALVE (SLIP X SLIP)

PART NO.	DESCRIPTION
76520	1/2"
76151	3/4"
76521	1"
76522	1 1/4"
76523	1 1/2"
76524	2"
76525	3"
76526	4"



### PVC COMPACT BALL VALVE (FPT X FPT)

PART NO.	DESCRIPTION
76527	1/2"
76528	3/4"
76529	1"
76530	1 1/4"
76531	1 1/2"
76532	2"
76533	3"
76534	4"



### PVC CHECK VALVES (FPT X FPT)

PART NO.	REPLACES	DESCRIPTION
75990	PCV-50	1/2"
76152	PCV-75	3/4"
75991	PCV-100	1"
75992	PCV-125	1 1/4"
75993	PCV-150	1 1/2"
75994	PCV-200	2"

### PVC CHECK VALVES (SLIP X SLIP)

PART NO.	REPLACES	DESCRIPTION
75995	PCV-50-SxS	1/2"
75996	PCV-75-SxS	3/4"
75997	PCV-100-SxS	1"
75998	PCV-125-SxS	1 1/4"
75999	PCV-150-SxS	1 1/2"
75989	PCV-200-SxS	2"

**Foot Valves / Check Valves**

**ALL BRONZE CHECK VALVES**



PART NO.	REPLACES	PIPE SIZE
75199	627708	3/8"
78708	627710	1/2"
78709	627720	3/4"
78710	627730	1"
78711	627740	1 1/4"
78712	627750	1 1/2"
78713	627760	2"
76147	CU-300	3"
76148	CU-400	4"

**STANDARD BRONZE FOOT VALVE WITH PERFORATED BRASS STRAINER**



PART NO.	REPLACES	PIPE SIZE	MIN. WELL DIA.
75198	627608	1/2"	1 1/4"
78696	627610	3/4"	1 1/4"
78697	627620	1"	2"
78698	627630	1 1/4"	2 1/2"
78699	627640	1 1/2"	3"
78700	627650	2"	3 1/2"
76145	FU-300	3"	3 1/2"
76146	FU-400	4"	4 1/2"

**HD BRONZE FOOT VALVE WITH PERFORATED BRASS STRAINER**

PART NO.	REPLACES	PIPE SIZE
78706	627530	2 1/2"
78707	627540	3"

**NYLON FOOT STRAINERS**



PART NO.	REPLACES	DESCRIPTION
77020	08ART17B	1 1/4" foot strainer
77021	08ART17C	1 1/2" foot strainer
77022	08ART17D	2" foot strainer



**CYCOLAC FOOT VALVE WITH STRAINER (ABS PLASTIC)**

PART NO.	REPLACES	PIPE SIZE	MIN. WELL DIA.
78701	626860	1"	2"
78702	626870	1 1/4"	2 1/2"
78703	626871	1 1/2"	2 1/2"

**SUCTION STRAINERS-STR SERIES**



PART NO.	MODEL NO.	REPLACES	PIPE SIZE
78714	STR-1 1/4	409390	1 1/4"
78715	STR-1 1/2	409340	1 1/2"
78716	STR-2	409350	2"
78717	STR-3	409360	3"
78718	STR-4	409370	4"

**PLASTIC SUCTION STRAINER**

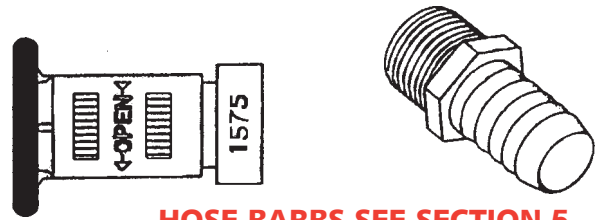


PART NO.	REPLACES	PIPE SIZE
78704	627815	1 1/2"
78705	627825	2"
74994	70002800	3"

## Fire Hose Nozzle (Red Plastic)

### FIRE HOSE NOZZLE

PART NO.	DESCRIPTION X THREAD
75791	3/4" Nozzle GHT
75790	1" Nozzle NPSH
73603	1 1/2" Nozzle NPSH
75789	2" Nozzle NPSH



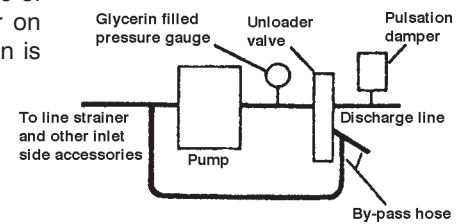
HOSE BARBS SEE SECTION 5

### HYPRO PULSATION DAMPERS



A Hypro Pulsation Damper smooths out piston pump surges to help provide steady, even pressure for jobs such as spraying and high pressure cleaning. Using a damper helps extend the life of the pump and drive source substantially, by reducing wear on internal pump parts and other accessories. System vibration is also greatly reduced.

PART NO.	REPLACES	DESCRIPTION
75046	3375-0009	Damper



### HYPRO UNLOADER VALVES

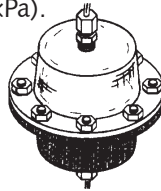
Protects pump, saves power when discharge is shut off. Designed for high pressure sprayers and washers.

PART NO.	REPLACES	PORT SIZE	PRESSURE RANGE PSI	GPM RANGE
76802	3390-0063D	3/4" MNPT	0 to 600	15 gpm
76801	3390-0067D	3/8" MNPT	200 to 600	5 gpm
76803	3430-0223	Repair kit		



### CHEMICAL ISOLATOR KIT

No. 2350 Chemical Isolator kit keeps chemicals from entering tractor or truck cab for added operator safety. Dampens and protects pressure gauge from corrosive chemicals. Large capacity assures pressure reading. Fittings for 1/8" tubing are standard. Maximum operating pressure, 150 psi (1000 kPa).



PART NO.

76649

### MANIFOLDS

ITEM	PART NO.	REPLACES	DESCRIPTION
A	74064	36516-3	8 way manifold (1) 3/4" inlet, (8) 1/2" & (1) 1/4" outlet
B	75072	5143148	2 row nylon manifold (1) 1/2" inlet, (2) 1/2" outlet



**Pressure Gauges**

**PRESSURE GAUGES (DRY)**



**BOTTOM MOUNT**  
1/4" MIPT  
BRASS STEM  
2" DIAMETER FACE

**STANDARD RANGES  
STANDARD GAUGE SCALES - PSI ONLY**

PART NO.	DESCRIPTION
75000	0-60 PSI
75001	0-100 PSI
75002	0-200 PSI
77525	0-300 PSI
75003	0-400 PSI
75004	0-600 PSI
75005	0-1000 PSI



**BACK MOUNT**  
1/4" MIPT  
BRASS STEM  
2" DIAMETER FACE

**STANDARD RANGES  
STANDARD GAUGE SCALES - PSI**

PART NO.	DESCRIPTION
77520	0-60 PSI, 0-4 Bar
77521	0-100 PSI, 0-7 Bar
79258	0-160 PSI, 0-11 Bar, 2 1/2" Face c/w dash panel mount
79260	0-200 PSI, 0-14 Bar 2 1/2" Face front flange style for dash mount
77522	0-200 PSI, 0-14 Bar
75036	0-300 PSI, 0-20 Bar
75035	0-400 PSI, 0-27 Bar
77523	0-600 PSI, 0-40 Bar
77524	0-1000 PSI, 0-70 Bar



**BOTTOM MOUNT**  
1/4" MIPT  
BRASS STEM  
2 1/2" DIAMETER FACE

**STANDARD RANGE  
STANDARD GAUGE SCALES PSI ONLY**

PART NO.	DESCRIPTION
75008	0-60 PSI
75009	0-100 PSI
75010	0-200 PSI
75011	0-300 PSI
77526	0-400 PSI
77529	0-600 PSI
77530	0-1000 PSI

**BOTTOM MOUNT**

1/8" MIPT  
BRASS STEM  
2 1/2" DIAMETER FACE  
PSI ONLY

PART NO.	DESCRIPTION
75029	0-100 PSI



**BOTTOM MOUNT**  
1/4" MIPT  
BRASS STEM  
4" DIAMETER FACE

**STANDARD RANGES  
STANDARD GAUGE SCALES PSI ONLY**

PART NO.	DESCRIPTION
75014	0-100 PSI
77531	0-200 PSI
77532	0-300 PSI
77533	0-400 PSI
77534	0-600 PSI
77535	0-1000 PSI



**Pressure Gauges (Glycerin Filled)**

**STANDARD RANGES  
STANDARD GAUGE SCALES - PSI ONLY**

PART NO.	DESCRIPTION
75021	0-100 PSI
77536	0-200 PSI
77537	0-300 PSI
75022	0-400 PSI
75023	0-600 PSI
75024	0-1000 PSI
75025	0-1500 PSI
75026	0-2000 PSI
78377	0-3000 PSI
77538	0-4000 PSI
75027	0-5000 PSI

**Bottom Mount**

1/4" MIPT - Glycerin Filled  
 2 1/2" Diameter Face  
 Brass Stem



(Not exactly as shown)

**STANDARD RANGES  
STANDARD GAUGE SCALES - DUAL  
OUTER SCALE IS PSI  
INNER SCALE IS METRIC (KPA & BAR)**

PART NO.	DESCRIPTION
77539	0-100 PSI, 0-7 Bar
77540	0-200 PSI, 0-14 Bar
77541	0-300 PSI, 0-20 Bar
77542	0-400 PSI, 0-27 Bar
77543	0-600 PSI, 0-40 Bar
77544	0-1000 PSI, 0-70 Bar
77545	0-1500 PSI, 0-100 Bar
77546	0-2000 PSI, 0-140 Bar
77547	0-3000 PSI, 0-200 Bar
77548	0-5000 PSI, 0-315 Bar

**Bottom Mount (Dual Scale)**

1/4" MIPT - Glycerin Filled  
 4" Diameter Face  
 Brass Stem

**Ammonia Pressure Gauges**



**Bottom Mount**

1/4" MIPT - Ammonia Gauge  
2 1/2" Diameter Face

**AMMONIA GAUGES (DRY)  
(SINGLE SCALE PSI ONLY)  
WETTED PARTS ZINC PLATED STEEL**

PART NO.	DESCRIPTION
75017	0-60 PSI
75018	0-160 PSI
77549	0-400 PSI

**Bottom Mount**

1/4" MIPT - Ammonia Gauge  
4" Diameter Face

PART NO.	DESCRIPTION
77550	0-60 PSI
77551	0-160 PSI
77552	0-400 PSI



**Bottom Mount**

1/4" MIPT - Ammonia Gauge  
2 1/2" Diameter Face

**AMMONIA GAUGES (GLYCERIN FILLED)  
(SINGLE SCALE PSI ONLY)  
ALL STAINLESS  
WETTED PARTS STAINLESS STEEL**

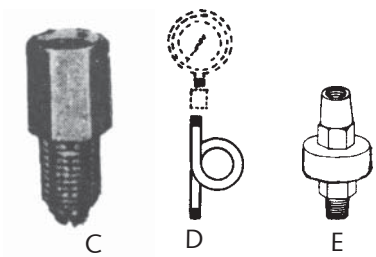
PART NO.	DESCRIPTION
77553	0-60 PSI
77554	0-160 PSI
75019	0-400 PSI

**Bottom Mount**

1/4" MIPT - Ammonia Gauge  
4" Diameter Face

PART NO.	DESCRIPTION
77555	0-60 PSI
77556	0-160 PSI
77557	0-400 PSI

**ACCESSORIES FOR GAUGES**



REF.	PART NO.	REPLACES	DESCRIPTION
C	75040	2404-0047	Brass gauge damper
D	75041	4G	Pigtail gauge protector
E	75042	6120-2	Aluminum gauge damper

**IBC (Intermediate Bulk Container) Polypropylene Ball Valves**



**FEATURES**

- All teflon seals
- Stainless steel bolts
- Glass filled polypropylene
- Lightweight
- Maximum operating pressure 100 PSI@70°F, 75 PSI@150°F
- Zinc alloy collar



**V20280**



PART NO.	REPLACES	DESCRIPTION	OPENING THRU BALL
75563	VSF2112A	2" Male QDC x V20280 Metal Collar with Cap and Lanyard	1 1/2"
76560	VS20200	IBC Valve Repair Kit	N/A

**V20280**



PART NO.	REPLACES	DESCRIPTION	OPENING THRU BALL
75564	VSMT211	2" Male NPT x V20280 Metal Collar	1 1/2"
76560	VS20200	IBC Valve Repair Kit	N/A

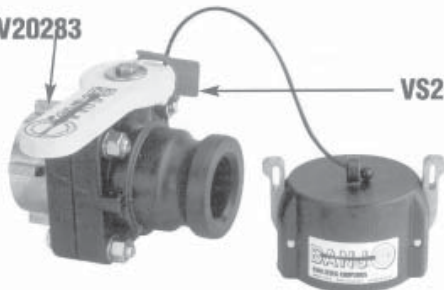
**V20283**



PART NO.	REPLACES	DESCRIPTION	OPENING THRU BALL
75566	VSMT202MR	2" Male NPT x V20283 Metal Collar	1 1/2"
76560	VS20200	IBC Valve Repair Kit	N/A

**V20283**

**VS20208**



PART NO.	REPLACES	DESCRIPTION	OPENING THRU BALL
75565	VSF202MRA	2" Male QDC x V20283 Metal Collar with Cap & Lanyard	1 1/2"
76560	VS20200	IBC Valve Repair Kit	N/A

**VALVE REPAIR KITS CONTAIN THE FOLLOWING LIST:**

- 1 Ball            2 PTFE Bearing Gasket
- 2 Ball Seats    1 PTFE Body Gasket

**IBC (Intermediate Bulk Container) Polypropylene Ball Valves**

V20282



V20282



PART NO.	REPLACES	DESCRIPTION	OPENING THRU BALL
75567	VSF2102H	2" Male QDC x V20282 Metal Collar	1 1/2"
76560	VS20200	IBC Valve Repair Kit	N/A

PART NO.	REPLACES	DESCRIPTION	OPENING THRU BALL
75570	VSMT2102H	2" Male NPT x V20282 Metal Collar with cap	1 1/2"
76560	VS20200	IBC Valve Repair Kit	N/A

V35282



V35282



PART NO.	REPLACES	DESCRIPTION	OPENING THRU BALL
75568	VSF204FPVLA	2" Male QDC x V35282 Metal Collar with Cap	1 1/2"

PART NO.	REPLACES	DESCRIPTION	OPENING THRU BALL
75571	VSMT204FPVLA	2" Male NPT x V35282 Metal Collar with Cap	1 1/2"

V20283



V20283



PART NO.	REPLACES	DESCRIPTION	OPENING THRU BALL
75569	VSF204	2" Male QDC x V20283 Metal Collar	1 1/2"
76560	VS20200	IBC Valve Repair Kit	N/A

PART NO.	REPLACES	DESCRIPTION	OPENING THRU BALL
75572	VSMT204A	2" Male NPTx V20283 Metal Collar with Cap	1 1/2"
76560	VS20200	IBC Valve Repair Kit	N/A

**IBC (Intermediate Bulk Container) Polypropylene Ball Valves**

**FEATURES**

- Glass filled polypropylene
- Lightweight
- Maximum operating pressure 100 PSI @ 70°F  
75 PSI @ 150°F



PART NO.	REPLACES	DESCRIPTION	OPENING THRU BALL
75573	VFB201	2" Male QDC Valve x 2" Female QDC	1 1/2"
73758	200G	2" Coupling Gasket (EPDM)	N/A
76396	200GV	2" Coupling Gasket FKM (viton type)	N/A

PART NO.	REPLACES	DESCRIPTION	OPENING THRU BALL
75575	VSFB201	2" Male QDC Stubby Valve x 2" Female QDC	1 1/2"
73758	200G	2" Coupling Gasket (EPDM)	N/A
76396	200GV	2" Coupling Gasket FKM (viton type)	N/A
76560	VS20200	IBC Valve Repair Kit	N/A



PART NO.	REPLACES	DESCRIPTION	OPENING THRU BALL
75574	ISO29	2" Flange x 2" Male QDC with Cap and Lanyard	1 1/2"
76560	VS20200	IBC Valve Repair Kit	N/A

PART NO.	REPLACES	DESCRIPTION	OPENING THRU BALL
75576	VSMT208	2" Standard Port Flange 2" Male NPT	1 1/2"
76560	VS20200	IBC Valve Repair Kit	N/A



PART NO.	REPLACES	DESCRIPTION	OPENING THRU BALL
75577	VSFTF202A	2" Male QDC x 4 Bolt Tank Adapter with Cap & Lanyard	1 1/2"
75578	VTF200GT	PTFE Encapsulated Silicone Gasket for VSFTF202A	N/A
76560	VS20200	IBC Valve Repair Kit	N/A

**VALVE REPAIR KITS CONTAIN THE FOLLOWING LIST**

- |              |                       |
|--------------|-----------------------|
| 1 Ball       | 2 PTFE Bearing Gasket |
| 2 Ball Seats | 1 PTFE Body Gasket    |

**IBC (Intermediate Bulk Container) Polypropylene Ball Valve Accessories**



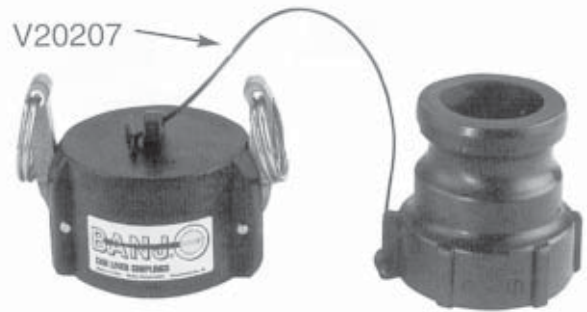
PART NO.	REPLACES	DESCRIPTION
75579	TA283	2" Buttress x 2" Male NPT Threads w/Santoprene Gasket



PART NO.	REPLACES	DESCRIPTION
77831	200ABT	2" Buttress x 2" Male Adapter QDC w/Santoprene Gasket



PART NO.	REPLACES	DESCRIPTION
75580	200FPT	2" Female NPT Cap



PART NO.	REPLACES	DESCRIPTION
74168	V20207	11" Polyurethane Lanyard



PART NO.	REPLACES	DESCRIPTION
75514	200CAPSH	2" Cam Lever Dust Cap

## Poly IBC/Spray Tank Lids



PART NO.	REPLACES	DESCRIPTION	SIZE
75581	TL650S	Solid Tank Lid w/Santoprene Gasket	6.5"
75582	TL650E	Solid Tank Lid w/EPDM Gasket	6.5"

PART NO.	REPLACES	DESCRIPTION	SIZE
75585	TL651S	Tank Lid w/Santoprene Gasket w/Unvented 2" Plug	6.5"
75586	TL651E	Tank Lid w/EPDM Gasket w/Unvented 2" Plug	6.5"



PART NO.	REPLACES	DESCRIPTION	SIZE
75583	TL652S	Tank Lid w/Santoprene Gasket w/Vented 2" Plug	6.5"
75584	TL652E	Tank Lid w/EPDM Gasket w/Vented 2" Plug	6.5"

PART NO.	REPLACES	DESCRIPTION	SIZE
75587	TL600	Non-Vented Lid for Spray Tanks	6"
75588	TL600C	Vented Lid for Spray Tanks	6"

## Poly Siphon Tubes



PART NO.	REPLACES	DESCRIPTION
74710	ST200	2" Poly Siphon Tube
74711	ST300	3" Poly Siphon Tube

**INDEX**

<b>APPLICATION CHART</b> .....	3-6	<b>LOW PRESSURE FLAT FAN LURMARK TIPS</b> .....	3-17
<b>AIR MIX NOZZLES GREENLEAF</b> .....	3-36	<b>LU LECHLER TIPS</b> .....	3-17
Adapters .....	3-39, 3-40	<b>LU LECHLER TIPS</b> .....	3-17
<b>BOOMLESS NOZZLES</b>		<b>MANIFOLD STRAINERS</b> .....	3-71
Boom Buster .....	3-46	<b>NOZZLE FILTERS, STRAINERS</b>	3-57
Boominator .....	3-47	.....	3-57
TeeJet .....	3-43 to 3-45, 3-49	<b>NYLON STRAINERS</b>	3-68, 3-71
Boom X Tender Hypro .....	3-48	.....	3-68, 3-71
<b>CANADIAN GENERAL FILTERS</b> .....	3-67	<b>SCREENS (FOR NOZZLE TIP)</b> .....	3-37
<b>CHECK VALVES (WATER PUMP)</b>		Spray Application Chart .....	3-6
.....	3-69	<b>STRAINERS</b>	
<b>COMBO JET TIP CAPS</b> .....	3-37 to 3-42	.....	3-57 to 3-71
<b>CONVERSION ADAPTERS</b> .....	3-39, 3-40	Manifold .....	3-71
<b>CONVERSION TABLE</b> .....	3-35, 3-36	PVC Molded .....	3-61
<b>DR DRIFT REDUCTION TIPCAP WILGER</b> .....	3-41	Hypro .....	3-59, 3-60, 3-70
<b>ER EXTENDED RANGE TIPCAP WILGER</b> .....	3-40	TeeJet .....	3-58, 3-59
<b>FERTILIZER NOZZLES</b>		Banjo .....	3-63 to 3-66, 3-71
TeeJet 3-Orifice .....	3-50, 3-53	<b>SUCTION STRAINERS</b> .....	3-68
TeeJet 8-Orifice .....	3-52	<b>TIPS</b>	
Wilger 2 & 3 orifice nozzle .....	3-54	AVI Air Inducing Tips Hypro .....	3-14
<b>FIRE HOSE NOZZLE</b> .....	3-61	(AI) Air Induction TeeJet Tips .....	3-1
<b>FLOW REGULATORS TEEJET</b> .....	3-51	AIC Air Induction TeeJet Tips .....	3-2
Flushing Strainer .....	3-70	<b>COMBO-JET WILGER</b>	
<b>FOOT VALVES</b> .....	3-69	.....	3-37 to 3-42
<b>GARDEN HOSE STRAINERS</b>		<b>DOUBLE OUTLET FLAT SPRAY TIPS</b>	
Filter Washer .....	3-68	TeeJet .....	3-20
Washer .....	3-68	Disc Core Nozzle Tips Delavan .....	3-29
Greenleaf TipCap Combination .....	3-35	Disc Core Cone Spray Tips TeeJet .....	3-27, 3-28
<b>ID LECHLER TIPS</b> .....	3-15	<b>(DG) DRIFT GUARD SPRAY TIPS</b>	
<b>IDK LECHLER TIPS</b> .....	3-16	TeeJet .....	3-4
<b>LECHLER TIPS</b> .....	3-15 to 3-17	<b>EVEN FLAT TEEJET TIPS</b> .....	3-10
		FastCap Hypro Tips .....	3-13 to 3-14
		<b>FLAT FAN SPRAY TIPS DELAVAN</b>	
		.....	3-7 to 3-9



## INDEX

### FLOOD SPRAY TIPS

TeeJet .....3-21 to 3-23

### FULL CONE SPRAY TIPS

Air Induction Lechler Tips.....3-15  
 AIUB Air Induction TeeJet Tips.....3-18  
 TeeJet.....3-19

### HOLLOW CONE SPRAY TIPS

TeeJet.....3-18  
 Low Drift Flat Fan Tips Hypro .....3-8

### OFF-CENTRE FLAT SPRAY TIPS

TeeJet .....3-20  
 RF Flat Fan Tips Delavan.....3-8

### RAINDROP 1/4 & 3/4

Delavan .....3-25 to 3-26

### RAINDROP ULTRA

**SPRAY TIPS DELAVAN** .....3-11  
 73 Degree LF Tips .....3-9  
 Raindrop Ultra Plus Spray Tips Delavan .....3-12  
 Spraymax Greenleaf TipCap .....3-35  
 StreamJet Fertilizer Nozzles TeeJet .....3-53

### TURBO TEEJET TIPS .....3-1

TR - Total Range Tips Hypro .....3-14  
 Turbodrop Greenleaf Venturi Nozzles .....3-30 to 3-35

### (TWINJET) TWIN FLAT TEEJET TIPS .....3-4

TDCFFP Venturi Greenleaf Nozzles.....3-34  
 TDCXL Venturi Greenleaf Nozzles .....3-31  
 TDVC Venturi Greenleaf Nozzles .....3-33  
 TDXL Venturi Greenleaf Nozzles .....3-31  
 TDXLV Venturi Greenleaf Nozzles .....3-34

### ULTRA LO-DRIFT TIPS HYPRO-LURMARK.....3-13

UB Underleaf Banding Tips TeeJet.....3-19

### VISIFLO TEEJET TIPS .....3-5

WRW - WhirlRain Delavan 1/4 and 3/4 .....3-24 and 3-26  
 XL Turbodrop Greenleaf .....3-31  
 XR Extended Range TeeJet Tips.....3-3  
 XRC Extended Range TeeJet Tips.....3-2

### T-LINE STRAINERS

Banjo .....3-64, 3-71

### VENTURI NOZZLES

Greenleaf .....3-30 to 3-35

### WATER PUMP STRAINER

.....3-69

### Y-LINE STRAINERS

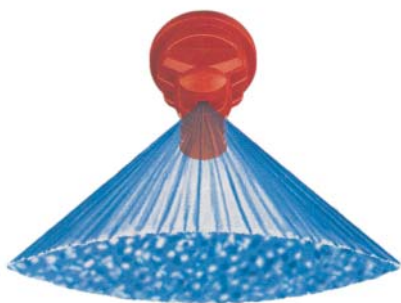
Banjo .....3-63, 3-65, 3-66, 3-71  
 Delavan .....3-62  
 Norwesco .....3-62

**Turbo TeeJet**

**WIDE ANGLE FLAT SPRAY TIPS**

**FEATURES**

- Tapered edge wide angle flat spray pattern for uniform coverage in broadcast spraying
- Large, rounded internal passage to minimize clogging
- Excellent resistance to corrosive solutions
- Superior wear characteristics
- Larger droplets for less drift - 15-90 PSI (1-6 bar)
- Automatic spray alignment with 25611-NYR Quick TeeJet® cap



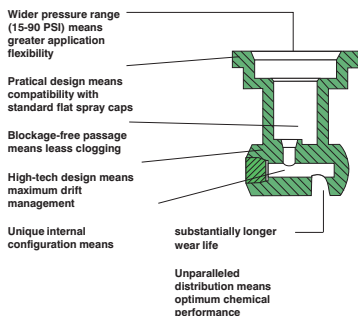
**SUGGESTED SPRAY HEIGHT**



**CAPS FOR TURBO TEEJET TIPS**

PART NO.	REPLACES	DESCRIPTION
72561	CP2561 1-1	Black cap only
72562	CP2561 1-2	White cap only
72563	CP2561 1-3	Red cap only
72564	CP2561 1-4	Blue cap only
72565	CP2561 1-5	Green cap only
72566	CP2561 1-6	Yellow cap only
72567	CP2561 1-7	Brown cap only
72568	CP2561 1-8	Orange cap only
72449	19438-EPR	EPDM seat & gasket for cap
72450	19438-VI	Viton seat & gasket for cap

TT11001-VP (100)
TT110015-VP (100)
TT11002-VP (50)
TT11003-VP (50)
TT11004-VP (50)
TT11005-VP (50)
TT11006-VP (50)
TT11008-VP (50)



**APPLICATION CHART SEE PAGE 3-6**

**AI TeeJet**

**AIR INDUCTION SPRAY TIPS**

**FEATURES**

- Stainless steel insert produces tapered edge flat spray pattern for uniform coverage in broadcast spraying
- Polymer insert holder and pre-orifice with VisiFlo® color-coding
- Larger droplets for less drift
- Depending on the chemical, produces large air-filled drops through the use of a venturi air aspirator
- Automatic spray alignment with 25597-NYR Quick TeeJet® cap



AI110015-VS (100)
AI11002-VS (100)
AI110025-VS (50)
AI11003-VS (50)
AI11004-VS (50)
AI11005-VS (50)
AI11006-VS (50)
AI11008-VS

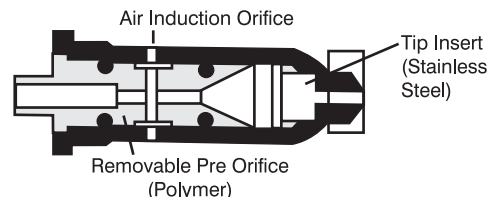


**SUGGESTED MINIMUM SPRAY HEIGHT**



**CAPS FOR AIR INDUCTION TIPS**

PART NO.	REPLACES	DESCRIPTION
72789	CP25597-1	Black cap only
72788	CP25597-2	White cap only
72794	CP25597-3	Red cap only
72793	CP25597-4	Blue cap only
72790	CP25597-5	Green cap only
72791	CP25597-6	Yellow cap only
72795	CP25597-7	Brown cap only
72792	CP25597-8	Orange cap only
72449	19438-EPR	EPDM seat & gasket for cap
72450	19438-VI	Viton seat & gasket for cap



**APPLICATION CHART SEE PAGE 3-6**

**AIC TeeJet Air Induction Spray Tips**

**AIR INDUCTION SPRAY TIPS**

**FEATURES**

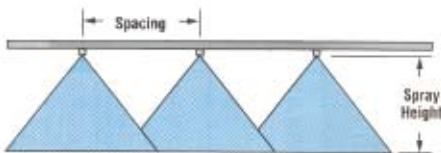
- Available in stainless steel, ceramic and polymer inserts, produces tapered edge flat spray pattern for uniform coverage in broadcast spraying.
- Polymer insert holder and pre-orifice with VisiFlo® color-coding
- Larger droplets for less drift
- Depending on the chemical, produces large air-filled drops through the use of a venturi air aspirator
- AI TeeJet nozzle molded into Quick TeeJet cap provides automatic spray alignment.
- Includes tightly fitting washer that stays put and assures a good seal.



*TeeJet*

**SUGGESTED MINIMUM SPRAY HEIGHT**

110°	15" - 18"



**HOW TO ORDER**

Specify tip number.

Examples:

- AIC11004-VS – Stainless Steel with VisiFlo® color-coding
- AIC11003-VP – Polymer with VisiFlo color code
- AIC11003-VK – Ceramic with VisiFlo color code

**APPLICATION CHART  
SEE PAGE 3-6**

- AIC110025 (50)
- AIC11003 (50)
- AIC11004 (50)
- AIC11005 (50)

**XRC TeeJet**

**EXTENDED RANGE FLAT SPRAY TIPS**

**FEATURES**

- Excellent spray distribution over a wide range of pressures — 15-60 PSI (1-4 bar)
- Ideal for rigs equipped with sprayer controllers
- Reduces drift at lower pressures, better coverage at higher pressures.
- Available in stainless steel, ceramic, and polymer in 110° spray angles ... with VisiFlo® color-coding.
- XR TeeJet tip molded into Quick TeeJet cap provides automatic spray alignment.
- Includes tightly fitting washer that stays put and assures a good seal.

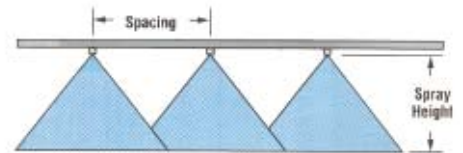


**SUGGESTED MINIMUM SPRAY HEIGHT**

110°	15" - 18"

*TeeJet*

**80° AVAILABLE IN VS ONLY**



**HOW TO ORDER**

Specify tip number.

Examples:

- XRC8003-VS –Stainless Steel with Visiflo® color coding
- XRC11004VS –Stainless Steel with VisiFlo® color-coding
- XRC11004-VP – Polymer with VisiFlo® color code
- XRC11004-VK –Ceramic with VisiFlo® color code

**APPLICATION CHART  
SEE PAGE 3-6**

- XRC110025 (50)
- XRC11003 (50)
- XRC11004 (50)
- XRC11005 (50)

**XR TeeJet**

**EXTENDED RANGE FLAT SPRAY TIPS**

**FEATURES**

- Excellent spray distribution over a wide range of pressures - 15- 60 PSI (1-4 bar)
- Ideal for rigs equipped with sprayer controllers
- Reduces drift at lower pressures, better coverage at higher pressures
- Available in stainless steel, hardened stainless steel, ceramic and polymer in 80° and 110° spray angles...with VisiFlo® color coding
- Available in ceramic sizes 03 thru 08
- Automatic spray alignment with 25611-NYR Quick TeeJet® cap
- Automatic spray alignment for sizes 10 and 15 with 25609-NYR Quick TeeJet® cap



**SUGGESTED MINIMUM SPRAY HEIGHT**

80°	17" - 19"
110°	15" - 18"



XR8001VS XR11001VS (100)
XR80015VS XR110015VS (100)
XR8002VS XR11002-VS (50)
XR8003VS XR11003-VS (50)
XR8004VS XR11004-VS (50)
XR8005VS XR11005-VS (50)
XR8006VS XR11006-VS (50)
XR8008VS XR11008-VS (50)
XR8010SS XR11010SS
XR8015SS XR11015SS

**CAPS FOR XR TIPS**

PART NO.	REPLACES	DESCRIPTION
72561	CP25611-1	Black cap only
72562	CP25611-2	White cap only
72563	CP25611-3	Red cap only
72564	CP25611-4	Blue cap only
72565	CP25611-5	Green cap only
72566	CP25611-6	Yellow cap only
72567	CP25611-7	Brown cap only
72568	CP25611-8	Orange cap only
72449	19438-EPR	EPDM seat & gasket for cap
72450	19438-VI	Viton seat & gasket for cap

**CAPS TO FIT SIZES 10 AND 15**

PART NO.	REPLACES	DESCRIPTION
72571	CP25609-1	Black cap only
72572	CP25609-2	White cap only
72573	CP25609-3	Red cap only
72574	CP25609-4	Blue cap only
72575	CP25609-5	Green cap only
72576	CP25609-6	Yellow cap only
72577	CP25609-7	Brown cap only
72578	CP25609-8	Orange cap only

**How to order:**

Specify tip number.

Examples:

- XR8004VS - Stainless steel with VisiFlo® color-coding
- XR8004VH - Hardened Stainless Steel with VisiFlo® color-coding
- XR11004-VP - Polymer with VisiFlo® color-coding
- XR11004-VK - Ceramic with VisiFlo® color-coding
- XR8010SS - Stainless Steel

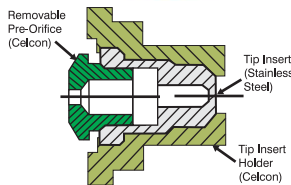
**APPLICATION CHART SEE PAGE 3-6**

**DG TeeJet**



**DRIFT GUARD SPRAY TIPS**

**FEATURES**

- Pre-orifice design produces larger droplets and reduces the small drift prone droplets, minimizing off-target spray contamination
- Tapered edge flat spray pattern provides uniform coverage when adjacent nozzle patterns are overlapped in broadcast spraying
- The color-coded pre-orifice is removable for any necessary cleaning operations
- Available in both 80° and 110° spray angles with durable stainless steel orifice
- Automatic spray alignment with 25611-NYR Quick TeeJet® cap



**Drift Guard**  
(Cross Section View)

 
DG80015VS* DG110015-VS* (100)
DG8002VS* DG11002-VS (50)
DG8003VS* DG11003-VS (50)
DG8004VS* DG11004-VS (50)
DG8005VS* DG11005-VS (50)

**CAPS FOR DRIFT GUARD SPRAY TIPS**

PART NO.	REPLACES	DESCRIPTION
72561	CP25611-1	Black cap only
72562	CP25611-2	White cap only
72563	CP25611-3	Red cap only
72564	CP25611-4	Blue cap only
72565	CP25611-5	Green cap only
72566	CP25611-6	Yellow cap only
72567	CP25611-7	Brown cap only
72568	CP25611-8	Orange cap only
72449	19438-EPR	EPDM seat & gasket for cap
72450	19438-VI	Viton seat & gasket for cap

**How to order:**

Specify tip number.

Examples:

DG8002VS-Stainless Steel with VisiFlo® color-coding

DG11002-VP -Polymer with VisiFlo® color-coding

\*Available in VisiFlo® stainless steel only

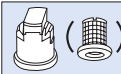
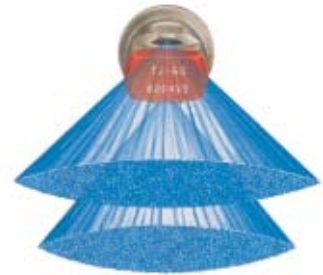
**APPLICATION CHART SEE PAGE 3-6**

**TwinJet TeeJet**

**TWIN FLAT SPRAY TIPS**

**FEATURES**

- Penetrates crop residue or dense foliage
- Smaller droplets for thorough coverage
- Better spray distribution along boom than with hollow cone nozzles
- Available in brass or stainless steel with VisiFlo® color-coding in 65°, 80° and 110° spray angles
- Automatic spray alignment with 25597-NYR Quick TeeJet® cap



TJ60-6501  
TJ60-8001  
(100)

TJ60-650134VS  
(100)

TJ60-6502VS  
TJ60-8002VS  
TJ60-11002VS  
(100)

TJ60-6503VS  
TJ60-8003VS  
TJ60-11003VS  
(100)

TJ60-65004VS  
TJ60-8004VS  
TJ60-11004VS  
(100)

TJ60-6506VS  
TJ60-8006VS  
TJ60-11006VS  
(100)

TJ60-6508VS  
TJ60-8008VS  
TJ60-11008VS  
(50)

TJ60-8010VS  
TJ60-11010VS  
(50)

**Caps for Twin Flat Spray Tips**

PART NO.	REPLACES	DESCRIPTION
72789	CP25597-1	Black cap only
72788	CP25597-2	White cap only
72794	CP25597-3	Red cap only
72793	CP25597-4	Blue cap only
72790	CP25597-5	Green cap only
72791	CP25597-6	Yellow cap only
72795	CP25597-7	Brown cap only
72792	CP25597-8	Orange cap only

**How to order:**

Specify tip number.

Examples:

TJ60-8002VS -Stainless Steel with VisiFlo® color-coding

TJ60-8002 -Brass

**SUGGESTED MINIMUM SPRAY HEIGHT**



Angle	Minimum Spray Height
65°	22" - 24"
80°	17" - 19"
110°	15" - 18"

**APPLICATION CHART SEE PAGE 3-6**

**VisiFlo® TeeJet**



**FLAT SPRAY TIPS**

**FEATURES**

- Tapered edge flat spray pattern for uniform coverage in broadcast spraying
- VisiFlo® color-coded version available in stainless steel, hardened stainless steel, ceramic and polymer in 80° or 110° spray angles in selected sizes
- Standard version (not color-coded) available in 15°, 25°, 40°, 50° and 65° spray angles in brass, stainless steel or hardened stainless steel
- Automatic spray alignment with 25611\*-NYR Quick TeeJet® cap
- Automatic spray alignment for sizes 10 thru 20 with 25609\*-NYR Quick TeeJet® cap

**SUGGESTED MINIMUM SPRAY HEIGHT**



Angle	Minimum Spray Height
65°	22" - 24"
80°	17" - 19"
110°	15" - 18"



**CAPS FOR SIZES 1 THRU 8**

PART NO.	REPLACES	DESCRIPTION
72561	CP25611-1	Black cap only
72562	CP25611-2	White cap only
72563	CP25611-3	Red cap only
72564	CP25611-4	Blue cap only
72565	CP25611-5	Green cap only
72566	CP25611-6	Yellow cap only
72567	CP25611-7	Brown cap only
72568	CP25611-8	Orange cap only
72449	19438-EPR	EPDM seat & gasket for cap
72450	19438-VI	Viton seat & gasket for cap

**CAPS TO FIT SIZES 10 THRU 20**

PART NO.	REPLACES	DESCRIPTION
72571	CP25609-1	Black cap only
72572	CP25609-2	White cap only
72573	CP25609-3	Red cap only
72574	CP25609-4	Blue cap only
72575	CP25609-5	Green cap only
72576	CP25609-6	Yellow cap only
72577	CP25609-7	Brown cap only
72578	CP25609-8	Orange cap only

TP650067*	TP800050*	TP800067* (100)	TP6501*
TP8001	TP11001 (100)	TP65015*	TP80015
TP110015 (100)	TP6502*	TP8002	TP11002 (50)
TP11002 (50)	TP6503*	TP8003	TP11003 (50)
TP11003 (50)	TP6504*	TP8004	TP11004 (50)
TP8004	TP11004 (50)	TP6505*	TP8005
TP6505*	TP8005	TP11005 (50)	TP11005 (50)
TP8005	TP11005 (50)	TP6506*	TP8006
TP6506*	TP8006	TP11006 (50)	TP11006 (50)
TP8006	TP11006 (50)	TP6508*	TP8008
TP6508*	TP8008	TP11008 (50)	TP11008 (50)
TP8008	TP11008 (50)	TP6510*	TP8010*
TP6510*	TP8010*	TP11010* (24)	TP11010* (24)
TP8010*	TP11010* (24)	TP6515*	TP8015*
TP6515*	TP8015*	TP11015*	TP11015*
TP8015*	TP11015*	TP6520*	TP8020*
TP6520*	TP8020*	TP11020*	TP11020*
TP8020*	TP11020*		

**How to order:**

Specify tip number.




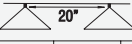
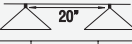
Examples:

- TP8002-VS - Stainless Steel with VisiFlo® color-coding
- TP8002VH - Hardened Stainless Steel with VisiFlo® color coding
- TP11002VP - Polymer with VisiFlo® color-coding
- TP11002-HSS - Hardened Stainless Steel
- TP8002-SS - Stainless Steel
- TP8002 - Brass

\* Available in Brass, Stainless Steel, and Hardened Stainless Steel only.

**APPLICATION CHART SEE PAGE 3-6**

Spray Application Chart in US Gallons

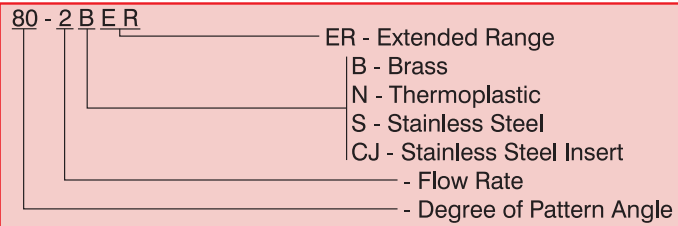
 	 PSI	GPM	GPA 													GAL/100FT <sup>2</sup> 			
			4 MPH	5 MPH	6 MPH	7 MPH	8 MPH	9 MPH	10 MPH	12 MPH	14 MPH	16 MPH	18 MPH	20 MPH	2 MPH	3 MPH	4 MPH	5 MPH	
			4 MPH	5 MPH	6 MPH	7 MPH	8 MPH	9 MPH	10 MPH	12 MPH	14 MPH	16 MPH	18 MPH	20 MPH	2 MPH	3 MPH	4 MPH	5 MPH	
01 (100)	15	0.061	4.5	3.6	3.0	2.6	2.3	2.0	1.8	1.5	1.3	1.1	1.0	0.91	0.21	0.14	0.10	0.08	
	20	0.071	5.3	4.2	3.5	3.0	2.6	2.3	2.1	1.8	1.5	1.3	1.2	1.1	0.24	0.16	0.12	0.10	
	30	0.087	6.5	5.2	4.3	3.7	3.2	2.9	2.6	2.2	1.8	1.6	1.4	1.3	0.30	0.20	0.15	0.12	
	40	0.10	7.4	5.9	5.0	4.2	3.7	3.3	3.0	2.5	2.1	1.9	1.7	1.5	0.34	0.23	0.17	0.14	
	50	0.11	8.2	6.5	5.4	4.7	4.1	3.6	3.3	2.7	2.3	2.0	1.8	1.6	0.37	0.25	0.19	0.15	
	60	0.12	8.9	7.1	5.9	5.1	4.5	4.0	3.6	3.0	2.5	2.2	2.0	1.8	0.41	0.27	0.20	0.16	
	75	0.14	10.4	8.3	6.9	5.9	5.2	4.6	4.2	3.5	3.0	2.6	2.3	2.1	0.48	0.32	0.24	0.19	
90	0.15	11.1	8.9	7.4	6.4	5.6	5.0	4.5	3.7	3.2	2.8	2.5	2.2	0.51	0.34	0.26	0.20		
01.5 (100)	15	0.09	6.7	5.3	4.5	3.8	3.3	3.0	2.7	2.2	1.9	1.7	1.5	1.3	0.31	0.20	0.15	0.12	
	20	0.11	8.2	6.5	5.4	4.7	4.1	3.6	3.3	2.7	2.3	2.0	1.8	1.6	0.37	0.25	0.19	0.15	
	30	0.13	9.7	7.7	6.4	5.5	4.8	4.3	3.9	3.2	2.8	2.4	2.1	1.9	0.44	0.29	0.22	0.18	
	40	0.15	11.1	8.9	7.4	6.4	5.6	5.0	4.5	3.7	3.2	2.8	2.5	2.2	0.51	0.34	0.26	0.20	
	50	0.17	12.6	10.1	8.4	7.2	6.3	5.6	5.0	4.2	3.6	3.2	2.8	2.5	0.58	0.39	0.29	0.23	
	60	0.18	13.4	10.7	8.9	7.6	6.7	5.9	5.3	4.5	3.8	3.3	3.0	2.7	0.61	0.41	0.31	0.24	
	75	0.21	15.6	12.5	10.4	8.9	7.8	6.9	6.2	5.2	4.5	3.9	3.5	3.1	0.71	0.48	0.36	0.29	
90	0.23	17.1	13.7	11.4	9.8	8.5	7.6	6.8	5.7	4.9	4.3	3.8	3.4	0.78	0.52	0.39	0.31		
02 (50)	15	0.12	8.9	7.1	5.9	5.1	4.5	4.0	3.6	3.0	2.5	2.2	2.0	1.8	0.41	0.27	0.20	0.16	
	20	0.14	10.4	8.3	6.9	5.9	5.2	4.6	4.2	3.5	3.0	2.6	2.3	2.1	0.48	0.32	0.24	0.19	
	30	0.17	12.6	10.1	8.4	7.2	6.3	5.6	5.0	4.2	3.6	3.2	2.8	2.5	0.58	0.39	0.29	0.23	
	40	0.20	14.9	11.9	9.9	8.5	7.4	6.6	5.9	5.0	4.2	3.7	3.3	3.0	0.68	0.45	0.34	0.27	
	50	0.22	16.3	13.1	10.9	9.3	8.2	7.3	6.5	5.4	4.7	4.1	3.6	3.3	0.75	0.50	0.37	0.30	
	60	0.24	17.8	14.3	11.9	10.2	8.9	7.9	7.1	5.9	5.1	4.5	4.0	3.6	0.82	0.54	0.41	0.33	
	75	0.27	20	16.0	13.4	11.5	10.0	8.9	8.0	6.7	5.7	5.0	4.5	4.0	0.92	0.61	0.46	0.37	
90	0.30	22	17.8	14.9	12.7	11.1	9.9	8.9	7.4	6.4	5.6	5.0	4.5	1.0	0.68	0.51	0.41		
02.5 (50)	30	0.22	16.3	13.1	10.9	9.3	8.2	7.3	6.5	5.4	4.7	4.1	3.6	3.3	0.75	0.50	0.37	0.30	
	40	0.25	18.6	14.9	12.4	10.6	9.3	8.3	7.4	6.2	5.3	4.6	4.1	3.7	0.85	0.57	0.43	0.34	
	50	0.28	21	16.6	13.9	11.9	10.4	9.2	8.3	6.9	5.9	5.2	4.6	4.2	0.95	0.63	0.48	0.38	
	60	0.31	23	18.4	15.3	13.2	11.5	10.2	9.2	7.7	6.6	5.8	5.1	4.6	1.1	0.70	0.53	0.42	
	75	0.34	25	20	16.8	14.4	12.6	11.2	10.1	8.4	7.2	6.3	5.6	5.0	1.2	0.77	0.58	0.46	
	90	0.38	28	23	18.8	16.1	14.1	12.5	11.3	9.4	8.1	7.1	6.3	5.6	1.3	0.86	0.65	0.52	
	03 (50)	15	0.18	13.4	10.7	8.9	7.6	6.7	5.9	5.3	4.5	3.8	3.3	3.0	2.7	0.61	0.41	0.31	0.24
20		0.21	15.6	12.5	10.4	8.9	7.8	6.9	6.2	5.2	4.5	3.9	3.5	3.1	0.71	0.48	0.36	0.29	
30		0.26	19.3	15.4	12.9	11.0	9.7	8.6	7.7	6.4	5.5	4.8	4.3	3.9	0.88	0.59	0.44	0.35	
40		0.30	22	17.8	14.9	12.7	11.1	9.9	8.9	7.4	6.4	5.6	5.0	4.5	1.0	0.68	0.51	0.41	
50		0.34	25	20	16.8	14.4	12.6	11.2	10.1	8.4	7.2	6.3	5.6	5.0	1.2	0.77	0.58	0.46	
60		0.37	27	22	18.3	15.7	13.7	12.2	11.0	9.2	7.8	6.9	6.1	5.5	1.3	0.84	0.63	0.50	
75		0.41	30	24	20	17.4	15.2	13.5	12.2	10.1	8.7	7.6	6.8	6.1	1.4	0.93	0.70	0.56	
90	0.45	33	27	22	19.1	16.7	14.9	13.4	11.1	9.5	8.4	7.4	6.7	1.5	1.0	0.77	0.61		
04 (50)	15	0.24	17.8	14.3	11.9	10.2	8.9	7.9	7.1	5.9	5.1	4.5	4.0	3.6	0.82	0.54	0.41	0.33	
	20	0.28	21	16.6	13.9	11.9	10.4	9.2	8.3	6.9	5.9	5.2	4.6	4.2	0.95	0.63	0.48	0.38	
	30	0.35	26	21	17.3	14.9	13.0	11.6	10.4	8.7	7.4	6.5	5.8	5.2	1.2	0.79	0.60	0.48	
	40	0.40	30	24	19.8	17.0	14.9	13.2	11.9	9.9	8.5	7.4	6.6	5.9	1.4	0.91	0.68	0.54	
	50	0.45	33	27	22	19.1	16.7	14.9	13.4	11.1	9.5	8.4	7.4	6.7	1.5	1.0	0.77	0.61	
	60	0.49	36	29	24	21	18.2	16.2	14.6	12.1	10.4	9.1	8.1	7.3	1.7	1.1	0.83	0.67	
	75	0.55	41	33	27	23	20	18.2	16.3	13.6	11.7	10.2	9.1	8.2	1.9	1.2	0.94	0.75	
90	0.60	45	36	30	25	22	19.8	17.8	14.9	12.7	11.1	9.9	8.9	2.0	1.4	1.0	0.82		
05 (50)	15	0.31	23	18.4	15.3	13.2	11.5	10.2	9.2	7.7	6.6	5.8	5.1	4.6	1.1	0.70	0.53	0.42	
	20	0.35	26	21	17.3	14.9	13.0	11.6	10.4	8.7	7.4	6.5	5.8	5.2	1.2	0.79	0.60	0.48	
	30	0.43	32	26	21	18.2	16.0	14.2	12.8	10.6	9.1	8.0	7.1	6.4	1.5	0.97	0.73	0.58	
	40	0.50	37	30	25	21	18.6	16.5	14.9	12.4	10.6	9.3	8.3	7.4	1.7	1.1	0.85	0.68	
	50	0.56	42	33	28	24	21	18.5	16.6	13.9	11.9	10.4	9.2	8.3	1.9	1.3	0.95	0.76	
	60	0.61	45	36	30	26	23	20	18.1	15.1	12.9	11.3	10.1	9.1	2.1	1.4	1.0	0.83	
	75	0.68	50	40	34	29	25	22	20	16.8	14.4	12.6	11.2	10.1	2.3	1.5	1.2	0.92	
90	0.75	56	45	37	32	28	25	22	18.6	15.9	13.9	12.4	11.1	2.6	1.7	1.3	1.0		
06 (50)	15	0.37	27	22	18.3	15.7	13.7	12.2	11.0	9.2	7.8	6.9	6.1	5.5	1.3	0.84	0.63	0.50	
	20	0.42	31	25	21	17.8	15.6	13.9	12.5	10.4	8.9	7.8	6.9	6.2	1.4	0.95	0.71	0.57	
	30	0.52	39	31	26	22	19.3	17.2	15.4	12.8	11.0	9.7	8.6	7.7	1.8	1.2	0.88	0.71	
	40	0.60	45	36	30	25	22	19.8	17.8	14.9	12.7	11.1	9.9	8.9	2.0	1.4	1.0	0.82	
	50	0.67	50	40	33	28	25	22	19.9	16.6	14.2	12.4	11.1	9.9	2.3	1.5	1.1	0.91	
	60	0.73	54	43	36	31	27	24	22	18.1	15.5	13.6	12.0	10.8	2.5	1.7	1.2	0.99	
	75	0.82	61	49	41	35	30	27	24	20	17.4	15.2	13.5	12.2	2.8	1.9	1.4	1.1	
90	0.90	67	53	45	38	33	30	27	22	19.1	16.7	14.9	13.4	3.1	2.0	1.5	1.2		
08 (50)	15	0.49	36	29	24	21	18.2	16.2	14.6	12.1	10.4	9.1	8.1	7.3	1.7	1.1	0.83	0.67	
	20	0.57	42	34	28	24	21	18.8	16.9	14.1	12.1	10.6	9.4	8.5	1.9	1.3	0.97	0.78	
	30	0.69	51	41	34	29	26	23	20	17.1	14.6	12.8	11.4	10.2	2.3	1.6	1.2	0.94	
	40	0.80	59	48	40	34	30	26	24	19.8	17.0	14.9	13.2	11.9	2.7	1.8	1.4	1.1	
	50	0.89	66	53	44	38	33	29	26	22	18.9	16.5	14.7	13.2	3.0	2.0	1.5	1.2	
	60	0.98	73	58	49	42	36	32	29	24	21	18.2	16.2	14.6	3.3	2.2	1.7	1.3	
	75	1.10	82	65	54	47	41	36	33	27	23	20	18.2	16.3	3.7	2.5	1.9	1.5	
90	1.20	89	71	59	51	45	40	36	30	25	22	19.8	17.8	4.1	2.7	2.0	1.6		
10 (50)	15	0.61	45	36	30	26	23	20	18.1	15.1	12.9	11.3	10.1	9.1	2.1	1.4	1.0	0.83	
	20	0.71	53	42	35	30	26	23	21	17.6	15.1	13.2	11.7	10.5	2.4	1.6	1.2	0.97	
	30	0.87	65	52	43	37	32	29	26	22	18.5	16.1	14.4	12.9	3.0	2.0	1.5	1.2	
	40	1.00	74	59	50	42	37	33	30	25	21	18.6							

**Sprayer Tip Cross Reference**

**FLAT FAN - PACKAGE OF 10**



**Legend**

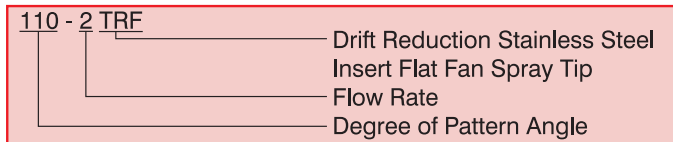


**RAINDROP DRIFT REDUCTION FLAT SPRAY TIP**

**RF Flat Spray Tips for Broadcast Spraying**

This 105° - 115° flat fan, drift-reduction nozzle tip replaces conventional flat fan 110° tips in broadcast applications when you want to reduce spray drift.

When compared to a conventional flat fan tip, the RF flat spray Raindrop tip produces fewer driftable "fines" with the same spray coverage. Research shows that RF flat spray Raindrop tips flowing .5 gpm at 40 psig have only 3% driftable fines (the percent of spray volume under 200 microns) compared to 7 - 20% for standard flat fan tips.



WESTWARD#	TEEJET#
110-1TRF	72730
110-1B	TP11001
110-1N	01F110
110-1S	TP11001-SS
110-1CJER	XR1100-VS
110-1.5BER	TP110015
110-1.5NER	VP1100015
110-1.5SER	TP110015-SS
110-1.5CJER	XR110015-VS
110-1.5TRF	DG110015-VS
110-2BER	TP11002
110-2NER	VP11002
110-2SER	TP11002-SS
110-2CJER	XR11002-VS
110-2TRF	DG11002-VS

WESTWARD#	TEEJET#
110-3BER	TP11003
110-3NER	VP11003
110-3SER	TP11003-SS
110-3CJER	XR11003-VS
110-3TRF	DG11003-VS
110-4BER	TP11004
110-4NER	VP11004
110-4SER	TP11004-SS
110-4CJER	XR11004-VS
110-4TRF	DG11004-VS
110-5BER	TP11005
110-5NER	VP11005
110-5SER	TP11005-SS
110-5CJER	XR11005-VS
110-5TRF	DG11005-VS

WESTWARD#	TEEJET#
110-6BER	TP11006
110-6NER	VP11006
110-6SER	TP11006-SS
110-6TRF	LD06F-110
110-6CJER	XR11006-VS
110-8BER	TP11008
110-8NER	XR11002VP
110-8SER	TP11008-SS
110-8CJER	XR11008-VS
110-8TRF	LD08F-110
110-10B	TP11010
110-10N	10F110
110-10S	TP110010-SS
20F80	72608

**NOTE: ALL ABOVE TIPS AVAILABLE IN 80°**

**40° TIPS AVAILABLE**

PART NO.	MATERIAL
40-6SER	Stainless Steel
72682	40-2E Brass tip
72742	40-1E Brass tip

**65° TIPS AVAILABLE**

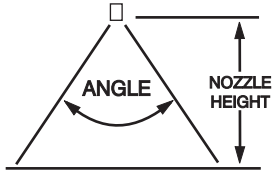
PART NO.	MATERIAL
65-1.5B	Brass
65-1.5N	Nylon
65-1B	Brass
65-1N	Nylon
65-2B	Brass
65-2N	Nylon
65-2S	Stainless Steel
65-3B	Brass
65-3N	Nylon
65-3S	Stainless Steel
65-4N	Nylon
65-5B	Brass
65-5S	Stainless Steel

PART NO.	MATERIAL
80-678	Brass
80-67SER	Stainless steel



**Delavan RF Flat Spray Raindrop Tips**

**FOR BROADCAST SPRAYING**



SPRAY ANGLE	NOZZLE HEIGHT (Inches)	
	20° SPACING	30° SPACING
110°	10"-12"	13"-15"

**RECOMMENDED OVERLAP**

Same overlap and spray pattern as standard LF spray tip



The Raindrop flat spray RF Color Jet tip is available in stainless steel insert thermoplastic, color-coded by flow rate. This is a 105° - 115° flat fan, drift-reduction nozzle tip. It replaces conventional flat fan 110° tips in broadcast applications where spray drift is a problem.

When compared to a conventional flat tip, the RF Flat spray raindrop tip produces fewer driftable "fines" with the same spray coverage. RF Flat Spray Raindrop Tips have only 3% driftable fines (the percent of spray volume less than 200 microns) compared to 7-20% for LF Flat Fan Tips.

**Features:**

- Color-coding makes it easy to match nozzle flow rates for easy identification
- Recessed orifice minimizes chances for damage
- Wrench flats provide for each pattern alignment when used with standard caps and bodies
- Max. rec. pressure - Thermoplastic: 700 kPa (100 PSIG)
- Max. recommended temperature - 50°C (120°F)
- Extended range

Nozzle Tip No. Color-Code		Pressure (PSIG)	Capacity 1-Nozzle (GPM)	Capacity 1-Nozzle (oz. per min.)	20" Spacing Gallons Per Acre (GPA) Based on Water				
ISO	DEL				4 MPH	5 MPH	6 MPH	7.5 MPH	10 MPH
<b>RF1</b> (100 mesh)		20	.071	9.0	5.3	4.2	3.5	2.8	2.1
		25	.079	10.1	5.9	4.7	3.9	3.1	2.3
		30	.087	11.1	6.4	5.1	4.3	3.4	2.6
		40	.10	12.8	7.4	5.9	4.9	4.0	3.0
		50	.11	14.1	8.3	6.6	5.5	4.4	3.3
		60	.12	15.4	9.1	7.3	6.1	4.8	3.6
<b>RF1.5</b> (100 mesh)		20	.11	14.1	7.9	6.3	5.3	4.2	3.2
		25	.12	15.4	8.8	7.0	5.9	4.7	3.5
		30	.13	16.6	9.6	7.7	6.4	5.1	3.9
		40	.15	19.2	11.1	8.9	7.4	5.9	4.5
		50	.17	21.8	12.5	10.0	8.3	6.6	5.0
		60	.18	23	13.6	10.9	9.1	7.3	5.5
<b>RF2</b> (50 mesh)		20	.14	17.9	10.5	8.4	7.0	5.6	4.2
		25	.16	20.5	11.7	9.4	7.8	6.3	4.7
		30	.17	21.8	12.9	10.3	8.6	6.9	5.1
		40	.20	25.6	14.8	11.9	9.9	7.9	5.9
		50	.22	28.2	16.6	13.3	11.1	8.9	6.6
		60	.24	30.7	18.2	14.5	12.1	9.7	7.3
<b>RF3</b> (50 mesh)		20	.21	26.9	15.8	12.6	10.5	8.4	6.3
		25	.24	30.7	17.6	14.1	11.7	9.4	7.0
		30	.26	33.3	19.3	15.4	12.9	10.3	7.7
		40	.30	38.4	22	17.8	14.9	11.9	8.9
		50	.34	43.5	25	19.9	16.6	13.3	10.0
		60	.37	47.4	27	22	18.2	14.5	10.9
<b>RF4</b> (50 mesh)		20	.28	35.8	21	16.8	14.0	11.2	8.4
		25	.32	41	23	18.8	15.7	12.5	9.4
		30	.35	44.8	26	21	17.1	13.7	10.3
		40	.40	51.2	30	24	19.8	15.8	11.9
		50	.45	57.6	33	27	22	17.7	13.3
		60	.49	62.7	36	29	24	19.4	14.5
<b>RF5</b> (50 mesh)		20	.35	44.8	26	21	17.5	14.0	10.5
		25	.40	51.2	29	23	19.6	15.7	11.7
		30	.43	55	32	26	21	17.1	12.9
		40	.50	64	37	30	25	19.8	14.9
		50	.56	71.7	42	33	28	22	16.6
		60	.61	78.1	45	36	30	24	18.2
<b>RF6</b> (50 mesh)		20	.42	53.8	32	25	21	16.8	12.6
		25	.47	60.2	35	28	23	18.8	14.1
		30	.52	66.6	39	31	26	21	15.4
		40	.60	76.8	45	36	30	24	17.8
		50	.67	85.8	50	40	33	27	19.9
		60	.73	93.4	55	44	36	29	22
<b>RF6</b> (50 mesh)		20	.57	73.0	42	34	28	22	16.8
		25	.63	80.6	47	38	31	25	18.8
		30	.69	88.3	51	41	34	27	21
		40	.80	102.4	59	48	40	32	24
		50	.89	113.9	66	53	44	35	27
		60	.98	125.4	73	58	48	39	29

PART NO.	DESCRIPTION	NOZZLE TIP NO.	HYPRO NOZZLE TIP #
110-1TRF	Pkg. of 10 tips	RF1	
110-1.5TRF	Pkg. of 10 tips	RF1.5	LD015 F110
110-2TRF	Pkg. of 10 tips	RF2	LD02 F110
110-3TRF	Pkg. of 10 tips	RF3	LD03 F110
110-4TRF	Pkg. of 10 tips	RF4	LD04 F110
110-5TRF	Pkg. of 10 tips	RF5	LD05 F110
110-6TRF	Pkg. of 10 tips	RF6	LD06 F110
110-8TRF	Pkg. of 10 tips	RF8	LD08 F110

**SINGLE TIPS STAINLESS STEEL**

PART NO.	DESCRIPTION	SPRAY ANGLE
72730	RF1	110°
72731	RF1.5	110°
72732	RF2	110°

**HYPRO TIPS**

PART NO.	DESCRIPTION
LD015F80	Low Drift Flat Fan Tip
LD02 F80	Low Drift Flat Fan Tip
LD03 F80	Low Drift Flat Fan Tip
LD04 F80	Low Drift Flat Fan Tip
LD05 F80	Low Drift Flat Fan Tip
LD06 F80	Low Drift Flat Fan Tip
LD08 F80	Low Drift Flat Fan Tip

**73° LF Tips**

**US GALLONS**

Standard rating @ 30 PSIG and 4 MPH is boldfaced.

Nozzle Tip No.	Pressure (PSIG)	Capacity 1-Nozzle (GPM)	Capacity 1-Nozzle (oz. per min.)	20" Spacing Gallons Per Acre Based on Water				
				4 MPH	5 MPH	6 MPH	7.5 MPH	10 MPH
				LF-.77 (100 mesh) BR, SS, NY-73*	20 .054 25 .061 30 .067 40 .077 50 .086 60 .094	6.9 7.8 8.6 9.9 11.0 12.0	4.0 4.5 5.0 5.7 6.4 7.0	3.2 3.6 4.0 4.6 5.1 5.6
LF-1.16 (100 mesh) BR, SS, NY-73*	20 .082 25 .092 30 .10 40 .12 50 .13 60 .14	10.5 11.8 12.8 15.4 16.6 17.9	6.1 6.8 7.5 8.6 9.6 10.5	4.9 5.4 6.0 6.9 7.7 8.4	4.1 4.5 5.0 5.7 6.4 7.0	3.2 3.6 4.0 4.6 5.1 5.6	2.4 2.7 3.0 3.4 3.9 4.2	
LF-1.54 (100 mesh) BR, SS, NY-73*	20 .11 25 .12 30 .13 40 .15 50 .17 60 .19	14.0 15.4 16.6 19.2 21.8 24.3	8.1 9.0 9.9 11.4 12.8 14.0	6.5 7.2 7.9 9.1 10.2 11.2	5.4 6.0 6.6 7.6 8.5 9.3	4.3 4.8 5.3 6.1 6.8 7.5	3.2 3.6 4.0 4.6 5.1 5.6	
LF-2.31 (50 mesh) BR, SS, NY-73*	20 .16 25 .18 30 .20 40 .23 50 .26 60 .28	20.4 23.0 25.6 29.4 33.3 35.8	12.1 13.6 14.9 17.2 19.2 21	9.7 10.8 11.9 13.7 15.3 16.8	8.1 9.0 9.9 11.4 12.8 14.0	6.5 7.2 7.9 9.1 10.2 11.2	4.9 5.4 5.9 6.9 7.7 8.4	
LF-3.08 (50 mesh) BR, SS, NY-73*	20 .22 25 .24 30 .27 40 .31 50 .34 60 .38	28.2 30.7 34.6 39.7 43.5 48.6	16.2 18.1 19.8 23 26 28	12.9 14.5 15.8 18.3 20 22	10.8 12.1 13.2 15.2 17.0 18.7	8.6 9.6 10.6 12.2 13.6 14.9	6.5 7.2 7.9 9.1 10.2 11.2	
LF-3.85 (50 mesh) BR, SS, NY-73*	20 .27 25 .30 30 .33 40 .39 50 .43 60 .47	34.6 38.4 42.2 50.0 55.0 60.2	20 23 25 29 32 35	16.2 18.1 19.8 23 26 28	13.5 15.1 16.5 19.1 21.7 23	8.6 10.8 13.2 15.2 17.0 18.7	6.5 7.2 7.9 9.1 10.2 11.2	
LF-4.62 (50 mesh) BR, SS, NY-73*	20 .33 25 .37 30 .40 40 .46 50 .52 60 .57	42.3 47.4 51.2 58.9 66.6 73.0	24 27 30 34 38 42	19.4 22 24 27 31 34	16.2 18.1 19.8 23 26 28	12.9 14.5 15.8 18.3 21.7 23	9.7 10.8 11.9 13.7 15.3 16.8	
LF-6.16 (50 mesh) BR, SS, NY-73*	20 .44 25 .49 30 .53 40 .62 50 .69 60 .75	56.3 62.8 67.8 79.4 88.3 96.0	32 36 40 46 51 56	26 29 32 37 41 45	22 24 26 30 34 37	17.2 19.3 21.7 24 27 30	12.9 14.5 15.8 18.3 21.7 23	
LF-7.70 (50 mesh) BR, SS, NY-73*	20 .54 25 .61 30 .67 40 .77 50 .86 60 .94	69.1 78.0 85.8 98.6 110.1 120.3	40 45 50 57 64 70	32 36 38 46 51 56	27 30 33 38 43 47	22 24 26 30 34 37	12.9 14.5 15.8 18.3 21.7 23	
LF-9.24 (50 mesh) BR, SS, NY-73*	20 .65 25 .73 30 .80 40 .92 50 1.0 60 1.1	83.2 93.4 102.4 117.8 128.0 140.8	49 54 59 69 77 84	39 43 48 55 61 67	32 36 40 46 51 56	26 29 32 38 43 47	19.4 22 24 27 30 34	

**73° TIPS AVAILABLE**

PART NO. PACK OF 10    PART NO. SINGLE TIP

73-077B	79181
73-077S	79190
73-116B	79182
73-116S	79191
73-154B	79183
73-154S	79192
73-154N	n/a
73-231B	79184
73-231S	79239
73-308B	79185
73-308S	79193
n/a	79186(BR)
73-385S	79240
73-385N	n/a
n/a	79187(BR)
73-462S	79241
n/a	79188(BR)
73-616S	79194
73-770B	79189
73-770S	79242
n/a	79243(BR)
n/a	79244(SS)

**METRIC**

Standard rating @ 300 kPa and 8 km/h is boldfaced.

Nozzle Tip No.	Pressure (kPa)	Capacity 1-Nozzle L/min	Capacity 1-Nozzle (mL per min.)	50 cm Spacing Litres per Hectare Based on Water				
				5 km/h	6 km/h	8 km/h	10 km/h	12 km/h
				LF-.77 (100 mesh) BR, SS, NY-73*	150 0.21 200 0.25 250 0.28 300 0.30 350 0.33 400 0.35	210 250 280 300 330 350	52 60 67 73 79 84	43.0 49.6 55 61 66 70
LF-1.16 (100 mesh) BR, SS, NY-73*	150 0.32 200 0.37 250 0.42 300 0.46 350 0.49 400 0.53	320 370 420 460 490 530	78 90 100 110 119 127	85 99 104 119 127 136	48.6 56 63 69 74 79	38.9 44.9 50 55 59 63	32.4 37.4 41.8 45.8 49.5 53	
LF-1.54 (100 mesh) BR, SS, NY-73*	150 0.43 200 0.50 250 0.55 300 0.61 350 0.66 400 0.70	430 500 550 610 660 700	103 119 133 146 158 168	86 99 111 122 131 140	64 74 81 91 99 105	52 60 67 73 79 84	43.0 49.9 55 61 66 70	
LF-2.31 (50 mesh) BR, SS, NY-73*	150 0.64 200 0.74 250 0.83 300 0.91 350 0.98 400 1.05	640 740 830 910 980 1050	155 179 200 219 236 253	129 149 166 182 198 211	97 112 125 137 148 158	77 89 99 109 118 126	64 74 83 91 98 105	
LF-3.08 (50 mesh) BR, SS, NY-73*	150 0.86 200 0.99 250 1.11 300 1.22 350 1.31 400 1.40	860 990 1110 1220 1310 1400	206 238 266 292 315 337	172 199 221 243 263 281	129 149 166 182 198 211	103 119 133 146 158 168	86 99 109 118 126 140	
LF-3.85 (50 mesh) BR, SS, NY-73*	150 1.07 200 1.24 250 1.39 300 1.52 350 1.64 400 1.75	1070 1240 1390 1520 1640 1750	258 298 333 365 393 421	215 248 277 304 328 351	161 186 200 228 246 263	129 149 166 182 197 214	107 124 139 152 164 175	
LF-4.62 (50 mesh) BR, SS, NY-73*	150 1.29 200 1.49 250 1.66 300 1.82 350 1.97 400 2.11	1290 1490 1660 1820 1970 2110	310 357 400 438 473 505	258 298 333 365 394 421	193 223 250 274 295 316	155 179 200 219 230 253	129 149 166 182 197 211	
LF-6.16 (50 mesh) BR, SS, NY-73*	150 1.72 200 1.99 250 2.22 300 2.43 350 2.63 400 2.81	1720 1990 2220 2430 2630 2810	413 477 533 584 630 674	344 397 444 486 525 562	258 298 333 365 394 421	206 238 266 292 315 337	172 199 222 243 263 281	
LF-7.70 (50 mesh) BR, SS, NY-73*	150 2.15 200 2.48 250 2.77 300 3.04 350 3.28 400 3.51	2150 2480 2770 3040 3280 3510	516 596 666 730 788 842	430 496 555 608 657 702	322 372 416 456 492 527	257 299 333 365 394 421	215 248 277 304 328 351	
LF-9.24 (50 mesh) BR, SS, NY-73*	150 2.58 200 2.98 250 3.33 300 3.65 350 3.94 400 4.21	2580 2980 3330 3650 3940 4210	619 715 799 876 946 1011	516 596 666 730 788 842	387 447 499 547 591 632	309 357 400 438 473 505	258 298 333 365 394 421	

**OTHER SIZES AVAILABLE:**

73-039B 79180  
73-039S

Code: BR – Brass  
SS – Stainless Steel  
NY – Nylon

**TeeJet Even Flat Spray Tips**

**FEATURES**

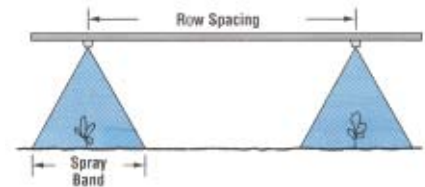
- Ideal for banding over the row or in row middles.
- Provides uniform distribution throughout the flat spray pattern.
- Easily mounted on spray boom or planter.
- Available in VisiFlo® color-coding in stainless steel, hardened stainless steel and brass.

*TeeJet*



Icon	PSI	Capacity 1 Nozzle in GPM	GPA  30°												
			3 mph	3.5 mph	4 mph	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph	7.5 mph	8 mph	8.5 mph	
TP4001E* TP6501E*	20 30 40 50 60	0.071 0.087 0.10 0.11 0.12	4.7 5.7 6.6 7.3 7.9	4.0 4.9 5.7 6.2 6.8	3.5 4.3 5.0 5.4 5.9	3.1 3.8 4.4 4.8 5.3	2.8 3.4 4.0 4.4 4.8	2.6 3.1 3.6 4.0 4.3	2.3 2.9 3.3 3.6 4.0	2.2 2.7 3.0 3.4 3.7	2.0 2.5 2.8 3.1 3.4	1.9 2.3 2.6 2.9 3.2	1.8 2.2 2.5 2.7 3.0	1.7 2.0 2.3 2.6 2.8	
TP8001E TP9501E (100)	40 50 60	0.10 0.11 0.12	6.6 7.3 7.9	5.7 6.2 6.8	5.0 5.4 5.9	4.4 4.8 5.3	4.0 4.4 4.8	3.6 4.0 4.3	3.3 3.6 4.0	3.0 3.4 3.7	2.8 3.1 3.4	2.6 2.9 3.2	2.5 2.7 3.0	2.3 2.6 2.8	
TP40015E* TP65015E*	20 30 40 50 60	0.11 0.13 0.15 0.17 0.18	7.3 8.6 9.9 11.2 11.9	6.2 7.4 8.5 9.6 10.2	5.4 6.4 7.4 8.4 8.9	4.8 5.7 6.6 7.5 7.9	4.4 5.1 5.9 6.7 7.1	4.0 4.7 5.4 6.1 6.5	3.6 4.3 5.0 5.6 5.9	3.4 4.0 4.6 5.2 5.5	3.1 3.7 4.2 4.8 5.1	2.9 3.4 4.0 4.5 4.8	2.7 3.2 3.7 4.2 4.5	2.6 3.0 3.5 4.0 4.2	
TP80015E TP95015E (100)	40 50 60	0.15 0.17 0.18	9.9 11.2 11.9	8.5 9.6 10.2	7.4 8.4 8.9	6.6 7.5 7.9	5.9 6.7 7.1	5.4 6.1 6.5	5.0 5.6 5.9	4.6 5.2 5.5	4.2 4.8 5.1	4.0 4.5 4.8	3.7 4.2 4.5	3.5 4.0 4.2	
TP4002E* TP6502E*	20 30 40 50 60	0.14 0.17 0.20 0.22 0.24	9.2 11.2 13.2 14.5 15.8	7.9 9.6 11.3 12.4 13.6	6.9 8.4 9.9 10.9 11.9	6.2 7.5 8.8 9.7 10.6	5.5 6.7 7.9 8.7 9.5	5.0 6.1 7.2 7.9 8.6	4.6 5.6 6.6 7.3 7.9	4.3 5.2 6.1 6.7 7.3	4.0 4.8 5.7 6.2 6.8	3.7 4.5 5.3 5.8 6.3	3.5 4.2 5.0 5.4 5.9	3.3 4.0 4.7 5.1 5.6	
TP8002E TP6502E (50)	40 50 60	0.22 0.24	14.5 15.8	12.4 13.6	10.9 11.9	9.7 10.6	8.7 9.5	7.9 8.6	7.3 7.9	6.7 7.3	6.2 6.8	5.8 6.3	5.4 5.9	5.1 5.6	
TP4003E* TP6503E*	20 30 40 50 60	0.21 0.26 0.30 0.34 0.37	13.9 17.2 19.8 22 24	11.9 14.7 17.0 19.2 21	10.4 12.9 15.0 16.8 18.3	9.2 11.4 13.2 15.0 16.3	8.3 10.3 11.9 13.5 14.7	7.6 9.4 10.8 12.2 13.3	6.9 8.6 9.9 11.2 12.2	6.4 7.9 9.1 10.4 11.3	5.9 7.4 8.5 9.6 10.5	5.5 6.9 7.9 9.0 9.8	5.2 6.4 7.4 8.4 9.2	4.9 6.1 7.0 7.9 8.6	
TP8003E TP9503E (50)	40 50 60	0.30 0.34 0.37	19.8 22 24	17.0 19.2 21	15.0 16.8 18.3	13.2 15.0 16.3	11.9 13.5 14.7	10.8 12.2 13.3	9.9 11.2 12.2	9.1 10.4 11.3	8.5 9.6 10.5	7.9 9.0 9.8	7.4 8.4 9.2	7.0 7.9 8.6	
TP4004E* TP6504E*	20 30 40 50 60	0.28 0.35 0.40 0.45 0.49	18.5 23 26 30 32	15.8 19.8 23 25 28	13.9 17.3 19.8 22 24	12.3 15.4 17.6 19.8 22	11.1 13.9 15.8 17.8 19.4	10.1 12.6 14.4 16.2 17.6	9.2 11.6 13.2 14.9 16.2	8.5 10.7 12.2 13.7 14.9	7.9 9.9 11.3 12.7 13.9	7.4 9.2 10.6 11.9 12.9	6.9 8.7 9.9 11.1 12.1	6.5 8.2 9.3 10.5 11.4	
TP8004E TP9504E (50)	40 50 60	0.45 0.49	30 32	25 28	22 24	19.8 22	17.8 19.4	16.2 17.6	14.9 16.2	13.7 14.9	12.7 13.9	11.9 12.9	11.1 12.1	10.5 11.4	
TP4005E* TP6505E*	20 30 40 50 60	0.35 0.43 0.50 0.56 0.61	23 28 33 37 40	19.8 24 28 32 35	17.3 21 25 28 30	15.4 18.9 22 25 27	13.9 17.0 19.8 22 24	12.6 15.5 18.0 20 22	11.6 14.2 16.5 18.5 20	10.7 13.1 15.2 17.1 18.6	9.9 12.2 14.1 15.8 17.3	9.2 11.4 13.2 14.8 16.1	8.7 10.6 12.4 13.9 15.1	8.2 10.0 11.6 13.0 14.2	
TP8005E TP9505E (50)	40 50 60	0.50 0.56 0.61	33 37 40	28 32 35	25 28 30	22 25 27	20 22 24	18.0 20 22	16.5 18.5 20	15.2 17.1 18.6	14.1 15.8 17.3	13.2 14.8 16.1	12.4 13.9 15.1	11.6 13.0 14.2	
TP4006E* TP6506E*	20 30 40 50 60	0.42 0.52 0.60 0.67 0.73	28 34 40 44 48	24 29 34 38 41	21 26 30 33 36	18.5 23 26 29 32	16.6 21 24 27 29	15.1 18.7 22 24 26	13.9 17.2 20 22 24	12.8 15.8 18.3 20 22	11.9 14.7 17.0 19.0 21	11.1 13.7 15.8 17.7 19.3	10.4 12.9 14.9 16.6 18.1	9.8 12.1 14.0 15.6 17.0	
TP8006E TP9506E (50)	40 50 60	0.60 0.67 0.73	40 44 48	34 38 41	30 33 36	26 29 32	24 27 29	22 24 26	20 22 24	18.3 20 22	17.0 19.0 21	15.8 17.7 19.3	14.9 16.6 18.1	14.0 15.6 17.0	
TP6508E* TP11008E*	20 30 40	0.57 0.69 0.80	38 46 53	32 39 45	28 34 40	25 30 35	23 27 32	21 25 29	18.8 23 26	17.4 21 24	16.1 19.5 23	15.0 18.2 21	14.1 17.1 21	13.3 16.1 18.6	
TP8008E* TP9508E*	50 60	0.89 0.98	59 65	50 55	44 49	39 43	35 39	32 35	29 32	27 30	25 28	23 26	22 24	21 23	
TP4010E* TP6510E* TP8010E* TP11010E* (24)	20 30 40 50 60	0.71 0.87 1.00 1.12 1.22	47 57 66 74 81	40 49 57 63 69	35 43 50 55 60	31 38 44 49 54	28 34 40 44 48	26 31 36 40 44	23 29 33 37 40	22 27 30 34 37	20 25 28 32 35	18.7 23 26 30 32	17.6 22 25 28 30	16.5 20 23 26 28	
TP4015E* TP6515E* TP8015E* TP11015E*	20 30 40 50 60	1.06 1.30 1.50 1.68 1.84	70 86 99 111 121	60 74 85 95 104	52 64 74 83 91	47 57 66 74 81	42 51 59 67 73	38 47 54 60 66	35 43 50 55 61	32 40 46 51 56	30 37 42 48 52	28 34 40 44 49	26 32 37 42 46	25 30 35 39 43	

Nozzle	Inches					GPA Conversion Factors**	
	40	65	80	95	110	30°	30°
8"	11"	6"	5"	4"	3"	3"	3.8
10"	14"	8"	6"	5"	4"	4"	3.0
12"	16"	9"	7"	5"	4"	4"	2.5
15"	21"	12"	9"	7"	5"	5"	2.0
18"	25"	14"	11"	8"	6"	6"	1.7



**How to order:**

Specify tip number.

Examples:

TP8002E-VS –Stainless Steel with VisiFlo color-coding

TP8002E -HSS –Hardened Stainless Steel

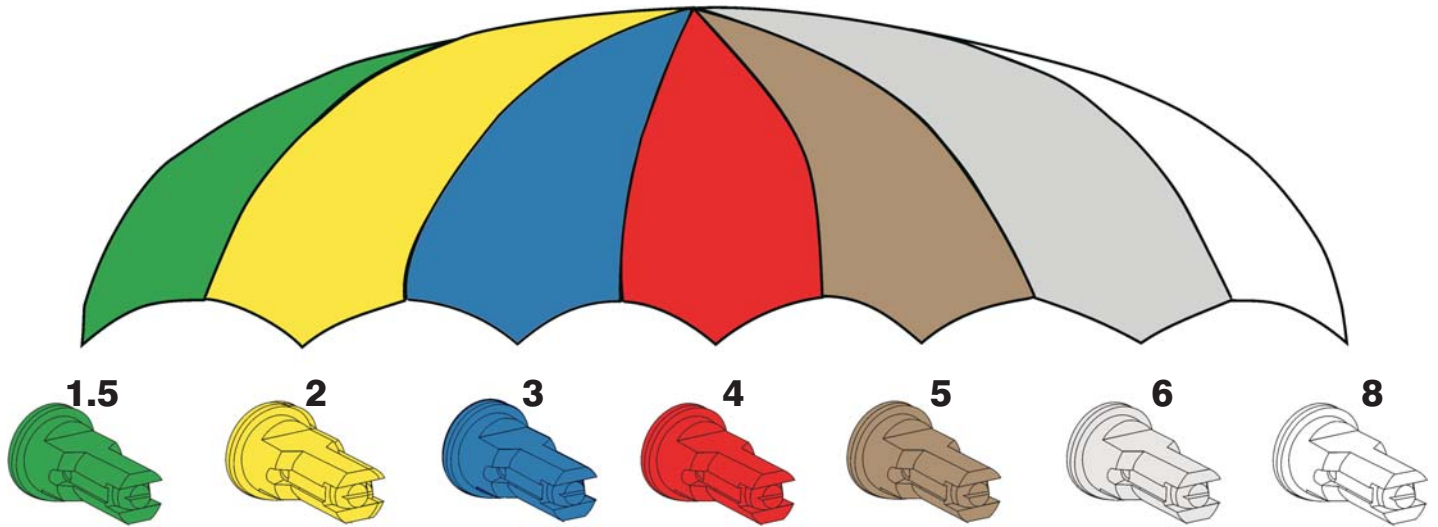
TP8002E-SS-Stainless Steel

TP8002E – Brass

\*Available in Brass, Stainless Steel, and Hardened Stainless Steel only.

**Delavan Raindrop® Ultra Nozzle**

**PROTECT YOUR SPRAY AND THE ENVIRONMENT  
WITH THE ALL NEW DELAVAN RAINDROP® ULTRA NOZZLE**



**THE ULTIMATE IN DRIFT CONTROL**

**RAINDROP® ULTRA NOZZLE**

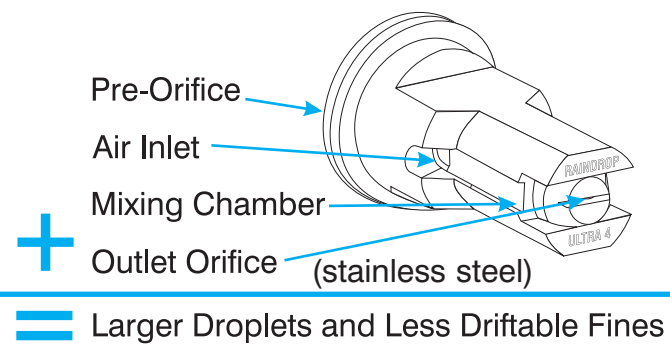
**Features:**

- Chemical resistant materials
- Wide 110° angle
- Fits all standard nozzle bodies
- Short, 1" long
- ISO color coded
- Sizes 1.5-8
- Air intake design

**Benefits**

- Produces 72% less driftable fines than conventional nozzles
- Spray in higher wind conditions
- Protect neighboring crops & environment
- Spray closer to target with wide angle
- Apply more chemical on target
- Better penetration with larger drops

PART NO.	REPLACES	SIZE
72762	51354-1	1.5-110°
72763	51354-2	2-110°
72764	51354-3	3-110°
72765	51354-4	4-110°
72766	51354-5	5-110°
72767	51354-6	6-110°
72768	51354-8	8-110°



**APPLICATION CHART SEE PAGE 3-6**

## Delavan Rain Drop Ultra Plus



# "It's all about control..."

### DEHAVAN RAINDROP® ULTRA PLUS

#### FEATURES:

- Air intake design reduces less driftable fines than conventional nozzles
- Larger air filled drops disperses chemicals upon contact
- Molded from chemical/acid resistant poly materials
- 110° broadcast spray pattern
- Short 1" overall length
- Will fit into standard threaded and quick connect caps
- Spray pressures from 25-100 PSI
- ISO color coded
- Sizes available from .015 - .8 gpm @ 40 PSI

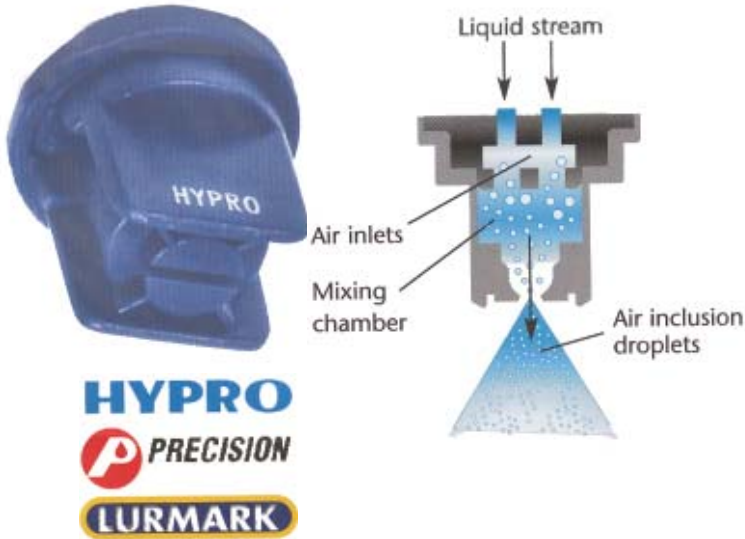
#### BENEFITS:

- Less driftable fines equals more chemical on target
- Larger droplets allow better crop canopy penetration
- Reduces the potential for drift reaching neighboring crops
- Allows for spray applications in higher winds
- 110° spray pattern allows for closer positioning to target

Part Number	Size
74910	1.5 - 110
74911	2 - 110
74912	3 - 110
74913	4 - 110
74914	5 - 110
74915	6 - 110
74916	8 - 110

**SEE PAGE 3-6 FOR APPLICATION CHART**

**Ultra Lo-Drift™ Spray Tips with Dual Air Eduction Technology**



PART NO.	REPLACES	SPRAY ANGLE	FLOW @ 40 PSI
72769	ULD120-015	120 Degrees	0.15 gpm
72093	ULD120-02	120 Degrees	0.2 gpm
70467	ULD120-025	120 Degrees	0.25 gpm
72770	ULD120-03	120 Degrees	0.3 gpm
72094	ULD120-04	120 Degrees	0.4 gpm
72095	ULD120-05	120 Degrees	0.5 gpm
72096	ULD120-06	120 Degrees	0.6 gpm

**SEE PAGE 3-6 FOR APPLICATION CHART**

**FastCap ULD - Ultra Lo Drift - Tip, Cap and Gasket**

Part No.	Spray Angle	Flow @ 40 PSI
FC-ULD120-015	120 Degrees	0.15 gpm
FC-ULD120-02	120 Degrees	0.2 gpm
FC-ULD120-025	120 Degrees	0.25 gpm
FC-ULD120-03	120 Degrees	0.3 gpm
FC-ULD120-04	120 Degrees	0.4 gpm
FC-ULD120-05	120 Degrees	0.5 gpm
FC-ULD120-06	120 Degrees	0.6 gpm

Part No.	Spray Angle	Flow @ 40 PSI
FC-ULD120-015	120 Degrees	0.15 gpm
FC-ULD120-02	120 Degrees	0.2 gpm
FC-ULD120-025	120 Degrees	0.25 gpm
FC-ULD120-03	120 Degrees	0.3 gpm
FC-ULD120-04	120 Degrees	0.4 gpm
FC-ULD120-05	120 Degrees	0.5 gpm
FC-ULD120-06	120 Degrees	0.6 gpm

**SEE PAGE 3-6 FOR APPLICATION CHART**



**Hypro AVI - Air Inducing Venturi Flat Fan Ceramic Tip**

Part No.	Spray Angle	Flow @ 40 PSI
AVI-110015	110 Degrees	0.15gpm
AVI-11002	110 Degrees	0.2 gpm
AVI-110025	110 Degrees	0.25 gpm
AVI-11003	110 Degrees	0.3 gpm
AVI-11004	110 Degrees	0.4 gpm
AVI-11005	110 Degrees	0.5 gpm
AVI-11006	110 Degrees	0.6 gpm



**CERAMIC ORIFICE FOR  
MAXIMUM WEAR CHARACTERISTICS**

**NOTE: FOR APPLICATION CHART SEE PAGE 3-6**

**Hypro FastCap TR-Total Range - Tip, Cap and Gasket Stainless Steel Insert**



Tip	Cap	Gasket
FC-TR80-01	FC-TR80-01	FC-TR80-01
FC-TR80-015	FC-TR80-015	FC-TR80-015
FC-TR80-02	FC-TR80-02	FC-TR80-02
FC-TR80-03	FC-TR80-03	FC-TR80-03
FC-TR80-04	FC-TR80-04	FC-TR80-04
FC-TR80-05	FC-TR80-05	FC-TR80-05
FC-TR80-06	FC-TR80-06	FC-TR80-06
FC-TR80-08	FC-TR80-08	FC-TR80-08
FC-TR80-10*	FC-TR80-10*	FC-TR80-10*
FC-TR80-15*	FC-TR80-15*	FC-TR80-15*
FC-TR110-01	FC-TR110-01	FC-TR110-01
FC-TR110-015	FC-TR110-015	FC-TR110-015
FC-TR110-02	FC-TR110-02	FC-TR110-02
FC-TR110-03	FC-TR110-03	FC-TR110-03
FC-TR110-04	FC-TR110-04	FC-TR110-04
FC-TR110-05	FC-TR110-05	FC-TR110-05
FC-TR110-06	FC-TR110-06	FC-TR110-06
FC-TR110-08	FC-TR110-08	FC-TR110-08
FC-TR110-10*	FC-TR110-10*	FC-TR110-10*
FC-TR110-15*	FC-TR110-15*	FC-TR110-15*

**FC-TR80-02  
(TIP, CAP & GASKET)**



**TR80-03  
(TIP ONLY)**

Part Number	Spray Angle	Flow @ 40 PSI	Tip Only Part No.
FC-TR80-01	80 Degrees	0.1 gpm	TR80-01
FC-TR80-015	80 Degrees	0.15 gpm	TR80-015
FC-TR80-02	80 Degrees	0.2 gpm	TR80-02
FC-TR80-03	80 Degrees	0.3 gpm	TR80-03
FC-TR80-04	80 Degrees	0.4 gpm	TR80-04
FC-TR80-05	80 Degrees	0.5 gpm	TR80-05
FC-TR80-06	80 Degrees	0.6 gpm	TR80-06
FC-TR80-08	80 Degrees	0.8 gpm	TR80-08
FC-TR80-10*	80 Degrees	1.0 gpm	TR80-10*
FC-TR80-15*	80 Degrees	1.5 gpm	TR80-15*
FC-TR110-01	110 Degrees	0.1 gpm	TR110-01
FC-TR110-015	110 Degrees	0.15 gpm	TR110-015
FC-TR110-02	110 Degrees	0.2 gpm	TR110-02
FC-TR110-03	110 Degrees	0.3 gpm	TR110-03
FC-TR110-04	110 Degrees	0.4 gpm	TR110-04
FC-TR110-05	110 Degrees	0.5 gpm	TR110-05
FC-TR110-06	110 Degrees	0.6 gpm	TR110-06
FC-TR110-08	110 Degrees	0.8 gpm	TR110-08
FC-TR110-10*	110 Degrees	1.0 gpm	TR110-10*
FC-TR110-15*	110 Degrees	1.5 gpm	TR110-15*

\*Tip is all Stainless Steel

**NOTE: FOR APPLICATION CHART SEE PAGE 3-6**

**Lechler Air Induction Spray Tips**

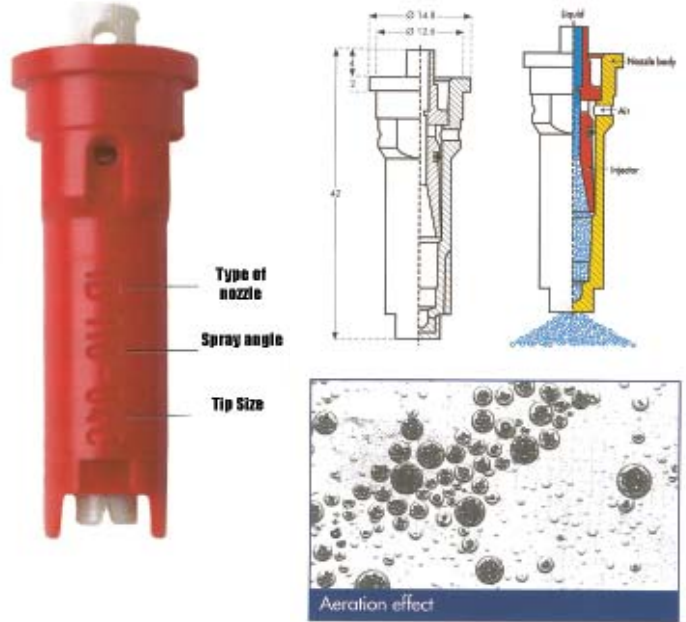
**FEATURES:**

**ID at a glance**

Type Air-induction flat-spray tip  
 Tip sizes 01-08  
 Pressure 40-220 PSI  
 Spray Angle 80° & 110°  
 Drift potential Extremely low  
 Applications Herbicides, fungicides, insecticides, liquid fertilizer, growth regulators, boom irrigation  
 Material Ceramic, polymer

**Key benefits**

- Sturdy design and two aeration orifices with round bores eliminate clogging and add durability
- Injector removes easily for cleaning
- Easy installation, no adapter necessary
- Efficacy comparable to conventional flat-spray nozzles
- Very good deposition pattern and canopy penetration
- Operable in all weather conditions, up to 10 mph winds



Size	Part No. 80 Polymer	Part No. 110 Polymer	Part No. 80 Ceramic	Part No. 110 Ceramic
01	ID 80-01	ID 110-01	ID 80-01C	ID 110-01C
015	ID 80-015	ID 110-015	ID 80-015C	ID 110-015C
02	ID 80-02	ID 110-02	ID 80-02C	ID 110-02C
025	ID 80-025	ID 110-025	ID 80-025C	ID 110-025C
03	ID 80-03	ID 110-03	ID 80-03C	ID 110-03C
04	ID 80-04	ID 110-04	ID 80-04C	ID 110-04C
05	ID 80-05	ID 110-05	ID 80-05C	ID 110-05C
06	ID 80-06	ID 110-06	ID 80-06C	ID 110-06C
08	ID 80-08	ID 110-08	ID 80-08C	n/a

**NOTE: ALL ID SERIES TIPS COME WITH BLACK CAP & EPDM GASKET.**

**CAP PART# 74996**

**GASKET PART# 72449**

**FOR APPLICATION CHART SEE PAGE 3-6**



## Lechler IDK Compact Tips

### FEATURES:

#### IDK compact tips

The low-profile, low-pressure choice for reduced drift applications.

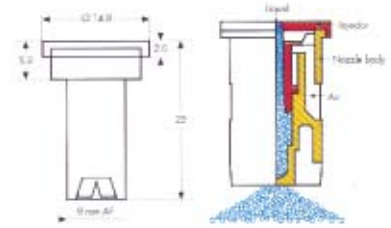
#### IDK at a glance

Type	Air induction flat-spray tip, compact design
Tip sizes	015-05
Pressure	15-90 PSI (15-100 PSI for size 05)
Spray Angle	110°
Drift potential	Very low
Applications	Herbicides, fungicides, insecticides, liquid fertilizer, growth regulators, boom irrigation
Material	Polymer

#### Key benefits

- Compact air induction design
- Economical low-drift alternative to full-size air induction tips
- Operates at lower pressures than full-size air induction tips
- Easy installation, no adapter necessary
- One-piece nozzle with reproducibly fixed-position injector for toolless removal
- Large, long-lasting lateral channels eliminate clogging
- Very good deposition structure and canopy penetration

**FOR APPLICATION CHART SEE PAGE 3-6**



Size	Part No. 110 Polymer
01	IDK110-01
015	IDK110-015
02	IDK110-02
025	IDK110-025
03	IDK110-03
04	IDK110-04
05	IDK110-05

**Lechler Flat Spray Tips**

**FEATURES:**

**LU tips**

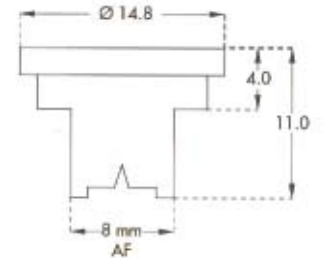
An extended range nozzle in ceramic, or polymer

LU at a glance

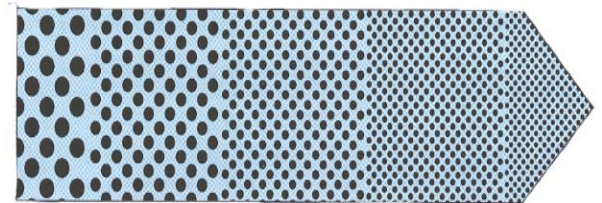
- Type Multi-range flat spray tip
- Tip sizes 01-08
- Pressure 15-90 PSI
- Spray Angle 80° & 110°
- Drift potential low-medium
- Applications Herbicides, fungicides, insecticides, liquid fertilizer, growth regulators, boom irrigation
- Material Ceramic, polymer

**Key benefits**

- Adapts to specific applications with changing pressure
- Lower pressures result in larger drops for uniform coverage
- Higher pressures deliver smaller drops for thorough coverage



Size	Part No. 80 Polymer	Part No. 110 polymer	Part No. 80 ceramic	Part No. 110 ceramic
01	LU80-01	LU110-01	LU80-01C	LU110-01C
015	LU80-015	LU110-015	LU80-015C	LU110-015C
02	LU80-02	LU110-02	LU80-02C	LU110-02C
03	LU80-03	LU110-03	LU80-03C	LU110-03C
04	LU80-04	LU110-04	LU80-04C	LU110-04C
05	LU80-05	LU110-05	LU80-05C	LU110-05C
06	LU80-06	LU110-06	LU80-06C	LU110-06C
08	LU80-08	LU110-08	LU80-08C	LU110-07C



**15 PSI** → **90 PSI**  
**CHANGE IN DROPLET SIZE VIA SPRAY-PRESSURE VARIATION IN LU TIPS**

**Thermoplastic Low Pressure Flat Fan Spray Tips**

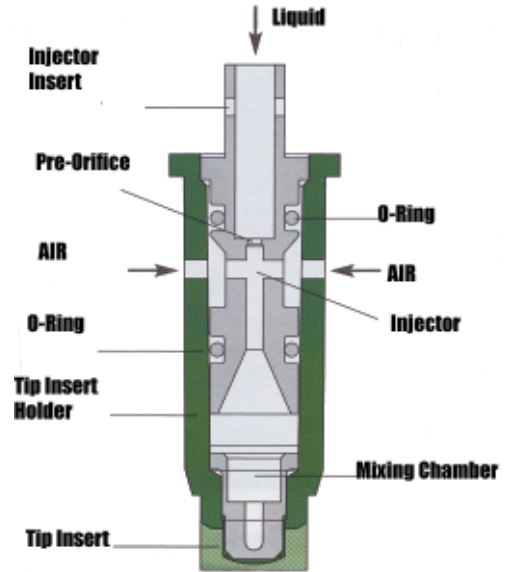
Part Number	Size
72652	LP015-110
72653	LP02-110
72654	LP03-110
72655	LP04-110

**FOR SPRAY TIP APPLICATION CHART SEE PAGE 3-6**

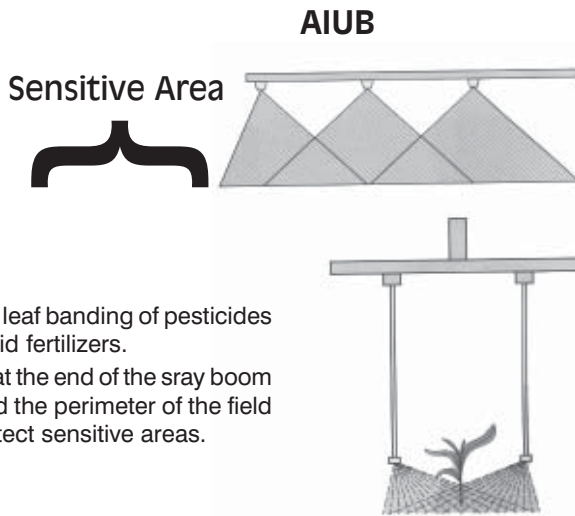
**TeeJet AIUB**

**AIR INDUCTION UNDERLEAF BANDING SPRAY TIP**

- Larger droplets for less drift
- Off-center spray pattern with flat spray characteristics
- Under leaf banding of pesticides or liquid fertilizers
- Used at the end of the spray boom around the perimeter of the field to protect sensitive areas
- Spraying pressure — 30-115 PSI (2-8 bar)
- Can be used with 25598\*-NYR Quick TeeJet cap







**Typical Applications:**



- Under leaf banding of pesticides or liquid fertilizers.
- Used at the end of the spray boom around the perimeter of the field to protect sensitive areas.



 	PSI	GPM	oz./min.	GPA 						GPA 					
				3 mph	4 mph	5 mph	6 mph	7 mph	8 mph	3 mph	4 mph	5 mph	6 mph	7 mph	8 mph
				<b>AIUB85025VS (50)</b>	30 40 50 60 70 80 90 100	0.22 0.25 0.28 0.31 0.33 0.35 0.38 0.40	28 32 36 40 42 45 49 51	22 25 28 31 33 35 38 40	16.3 18.6 21 23 25 26 28 30	13.1 14.9 16.6 18.4 19.6 21 23 24	10.9 12.4 13.9 15.3 16.3 17.3 18.8 19.8	9.3 10.6 11.9 13.2 14.0 14.9 16.1 17.0	8.2 9.3 10.4 11.5 12.3 13.0 14.1 14.9	14.5 16.5 18.5 20 22 23 25 26	10.9 12.4 13.9 15.3 16.3 17.3 18.8 19.8
<b>AIUB8503VS (50)</b>	30 40 50 60 70 80 90 100	0.26 0.30 0.34 0.37 0.40 0.42 0.45 0.47	33 38 44 47 51 54 58 60	26 30 34 37 40 42 45 47	19.3 22 25 27 30 31 33 35	15.4 17.8 20 22 24 25 27 28	12.9 14.9 16.8 18.3 19.8 21 22 23	11.0 12.7 14.4 15.7 17.0 17.8 19.1 19.9	9.7 11.1 12.6 13.7 14.9 15.6 16.7 17.4	17.2 19.8 22 24 26 28 30 31	12.9 14.9 16.8 18.3 19.8 21 22 23	10.3 11.9 13.5 14.7 15.8 16.6 17.8 18.6	8.6 9.9 11.2 12.2 13.2 13.9 14.9 15.5	7.4 8.5 9.6 10.5 11.3 11.9 12.7 13.3	6.4 7.4 8.4 9.2 9.9 10.4 11.1 11.6
<b>AIUB8504VS (50)</b>	30 40 50 60 70 80 90 100	0.35 0.40 0.45 0.49 0.53 0.57 0.60 0.63	45 51 58 63 68 73 77 81	35 40 45 49 52 56 59 62	26 30 33 36 39 42 45 47	21 24 27 29 31 34 36 37	17.3 19.8 22 24 26 28 30 31	14.9 17.0 19.1 21 22 24 25 27	13.0 14.9 16.7 18.2 19.7 21 22 23	23 26 30 32 35 38 40 42	17.3 19.8 22 24 26 28 30 31	13.9 15.8 17.8 19.4 21 23 24 25	11.6 13.2 14.9 16.2 17.5 18.8 19.8 21	9.9 11.3 12.7 13.9 15.0 16.1 17.0 17.8	8.7 9.9 11.1 12.1 13.1 14.1 14.9 15.6

**TeeJet Full Cone Spray Tips - Banding Nozzles**

Provides coarse spray with full cone pattern.



*TeeJet*

Icon	Liquid Pressure in PSI	Capacity 1 Nozzle in GPM	Capacity 1 Nozzle in oz./min.	GPA* $\triangle 48'' \triangle$ (Three Nozzles Per Row)							
				2 mph	2.5 mph	3 mph	3.5 mph	4 mph	4.5 mph	5 mph	5.5 mph
TG-1	20	0.14	18	26	21	17.3	14.9	13.0	11.6	10.4	9.5
	30	0.16	20	30	24	19.8	17.0	14.9	13.2	11.9	10.8
	40	0.19	24	35	28	24	20	17.6	15.7	14.1	12.8
	60	0.23	29	43	34	28	24	21	19.0	17.1	15.5
TG-2	20	0.28	36	52	42	35	30	26	23	21	18.9
	30	0.33	42	61	49	41	35	31	27	25	22
	40	0.38	49	71	56	47	40	35	31	28	26
	60	0.46	59	85	68	57	49	43	38	34	31
TG-3	20	0.41	52	76	61	51	43	38	34	30	28
	30	0.50	64	93	74	62	53	46	41	37	34
	40	0.57	73	106	85	71	60	53	47	42	38
	60	0.68	87	126	101	84	72	63	56	50	46
TG-4	20	0.55	70	102	82	68	58	51	45	41	37
	30	0.66	84	123	98	82	70	61	54	49	45
	40	0.76	97	141	113	94	81	71	63	56	51
	60	0.91	116	169	135	113	97	84	75	68	61
TG-5	20	0.69	88	128	102	85	73	64	57	51	47
	30	0.84	108	156	125	104	89	78	69	62	57
	40	1.00	128	186	149	124	106	93	83	74	68
	60	1.16	148	215	172	144	123	108	96	86	78
TG-6	20	0.82	105	152	122	101	87	76	68	61	55
	30	0.99	127	184	147	123	105	92	82	74	67
	40	1.14	146	212	169	141	121	106	94	85	77
	60	1.37	175	254	203	170	145	127	113	102	92
TC-7	20	1.10	141	204	163	136	117	102	91	82	74
	30	1.33	170	247	198	165	141	123	110	99	90
	40	1.51	193	280	224	187	160	140	125	112	102
	60	1.82	233	339	270	225	193	169	150	135	123

**TeeJet UB - Underleaf Banding Spray Tips**

**DESIGN FEATURES:**

- Off-center top with tapered flat spray characteristics.
- 85° spray angles.
- Available in brass or stainless steel.
- Operating pressure 20-60 PSI (1.5 to 4 bar)
- Uniform distribution
- Capacities of 075 to 04.



**COMMON APPLICATIONS:**

- Underleaf band application of contact herbicides in combination with mechanical cultivation.
- Band application of contact herbicides or liquid fertilizer.

**UNDERLEAF BAND APPLICATION:**

- Directed application under crop canopy
- Nozzle spacing 10" (0.25 m) - two tips per row.
- Adjust tip height and nozzle orientation to achieve desired band width



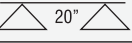
Icon	PSI	2 Nozzles in GPM	2 Nozzles in oz./min.	GPA $\triangle 30'' \triangle$ (2 Nozzles per row)										
				2 mph	2.5 mph	3 mph	3.5 mph	4 mph	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph
D25143-UB 850075 (100)	20	0.11	14	10.9	8.7	7.3	6.2	5.4	4.8	4.4	4.0	3.6	3.4	3.1
	30	0.13	17	12.9	10.3	8.6	7.4	6.4	5.7	5.1	4.7	4.3	4.0	3.7
	40	0.15	19	14.9	11.9	9.9	8.5	7.4	6.6	5.9	5.4	5.0	4.6	4.2
	50	0.17	22	16.8	13.5	11.2	9.6	8.4	7.5	6.7	6.1	5.6	5.2	4.8
D25143-UB 8501 (100)	20	0.14	18	13.9	11.1	9.2	7.9	6.9	6.2	5.5	5.0	4.6	4.3	4.0
	30	0.17	22	16.8	13.5	11.2	9.6	8.4	7.5	6.7	6.1	5.6	5.2	4.8
	40	0.20	26	19.8	15.8	13.2	11.3	9.9	8.8	7.9	7.2	6.6	6.1	5.7
	50	0.22	28	22	17.4	14.5	12.4	10.9	9.7	8.7	7.9	7.3	6.7	6.2
D25143-UB 85015 (80)	20	0.21	27	21	16.6	13.9	11.9	10.4	9.2	8.3	7.6	6.9	6.4	5.9
	30	0.26	33	26	21	17.2	14.7	12.9	11.4	10.3	9.4	8.6	7.9	7.4
	40	0.30	38	30	24	19.8	17.0	14.9	13.2	11.9	10.8	9.9	9.1	8.5
	50	0.34	44	34	27	22	19.2	16.8	15.0	13.5	12.2	11.2	10.4	9.6
D25143-UB 8502 (50)	20	0.28	36	28	22	18.5	15.8	13.9	12.3	11.1	10.1	9.2	8.5	7.9
	30	0.35	45	35	28	23	19.8	17.3	15.4	13.9	12.6	11.6	10.7	9.9
	40	0.40	51	40	32	26	23	19.8	17.6	15.8	14.4	13.2	12.2	11.3
	50	0.45	58	45	36	30	25	22	19.8	17.8	16.2	14.9	13.7	12.7
D25143-UB 8503 (50)	20	0.42	54	42	33	28	24	21	18.5	16.6	15.1	13.9	12.8	11.9
	30	0.52	67	51	41	34	29	26	23	21	18.7	17.2	15.8	14.7
	40	0.60	77	59	48	40	34	30	26	24	22	19.8	18.3	17.0
	50	0.67	86	66	53	44	38	33	29	27	24	22	20	19.0
D25143-UB 8504 (50)	20	0.57	93	72	58	48	41	36	32	29	26	24	22	21
	30	0.69	111	88	70	57	47	40	35	32	29	26	24	23
	40	0.80	127	102	82	67	55	46	40	37	33	30	27	25
	50	0.89	144	114	91	74	61	50	44	39	35	32	29	27
D25143-UB 8504 (50)	20	0.57	73	56	45	38	32	28	25	23	21	18.8	17.4	16.1
	30	0.69	88	68	55	46	39	34	30	27	25	23	21	19.5
	40	0.80	102	79	65	55	46	40	35	32	29	26	24	23
	50	0.89	114	88	70	59	50	44	39	35	32	29	27	25
D25143-UB 8504 (50)	20	0.57	73	56	45	38	32	28	25	23	21	18.8	17.4	16.1
	30	0.69	88	68	55	46	39	34	30	27	25	23	21	19.5
	40	0.80	102	79	65	55	46	40	35	32	29	26	24	23
	50	0.89	114	88	70	59	50	44	39	35	32	29	27	25

**ADD 'SS' TO PART NUMBER FOR STAINLESS STEEL**

**TeeJet Double Outlet Flat Spray Tips**

150° Series Stainless Steel and Brass

Suggested for post-directed application with hose drops.

Brass Part No.	Stainless Steel Part No.	PSI	Capacity 1-Nozzle in GPM	GPA 											
				4 mph	5 mph	6 mph	7 mph	8 mph	9 mph	10 mph	12 mph	14 mph	16 mph	18 mph	
				20	0.071	5.3	4.2	3.5	3.0	2.6	2.3	2.1	1.8	1.5	1.3
25	0.079	5.9	4.7	3.9	3.4	2.9	2.6	2.3	2.0	1.7	1.5	1.3			
30	0.087	6.5	5.2	4.3	3.7	3.2	2.9	2.6	2.2	1.8	1.6	1.4			
40	0.10	7.4	5.9	5.0	4.2	3.7	3.3	3.0	2.5	2.1	1.9	1.7			
50	0.11	8.2	6.5	5.4	4.7	4.1	3.6	3.3	2.7	2.3	2.0	1.8			
72772	72773	TQ150-01 (100)	20	0.11	8.2	6.5	5.4	4.7	4.1	3.6	3.3	2.7	2.3	2.0	1.8
			25	0.12	8.9	7.1	5.9	5.1	4.5	4.0	3.6	3.0	2.5	2.2	2.0
			30	0.13	9.7	7.7	6.4	5.5	4.8	4.3	3.9	3.2	2.8	2.4	2.1
			40	0.15	11.1	8.9	7.4	6.4	5.6	5.0	4.5	3.7	3.2	2.8	2.5
			50	0.17	12.6	10.1	8.4	7.2	6.3	5.6	5.0	4.2	3.6	3.2	2.8
72774	72775	TQ150-015 (100)	20	0.14	10.4	8.3	6.9	5.9	5.2	4.6	4.2	3.5	3.0	2.6	2.3
			25	0.16	11.9	9.5	7.9	6.8	5.9	5.3	4.8	4.0	3.4	3.0	2.6
			30	0.17	12.6	10.1	8.4	7.2	6.3	5.6	5.0	4.2	3.6	3.2	2.8
			40	0.20	14.9	11.9	9.9	8.5	7.4	6.6	5.9	5.0	4.2	3.7	3.3
			50	0.22	16.3	13.1	10.9	9.3	8.2	7.3	6.5	5.4	4.7	4.1	3.6
72776	72777	TQ150-02 (100)	20	0.21	15.6	12.5	10.4	8.9	7.8	6.9	6.2	5.2	4.5	3.9	3.5
			25	0.24	17.8	14.3	11.9	10.2	8.9	7.9	7.1	5.9	5.1	4.5	4.0
			30	0.26	19.3	15.4	12.9	11.0	9.7	8.6	7.7	6.4	5.5	4.8	4.3
			40	0.30	22	17.8	14.9	12.7	11.1	9.9	8.9	7.4	6.4	5.6	5.0
			50	0.34	25	20	16.8	14.4	12.6	11.2	10.1	8.4	7.2	6.3	5.6
72778	72779	TQ150-03 (100)	20	0.28	21	16.6	13.9	11.9	10.4	9.2	8.3	6.9	5.9	5.2	4.6
			25	0.32	24	19.0	15.8	13.6	11.9	10.6	9.5	7.9	6.8	5.9	5.3
			30	0.35	26	21	17.3	14.9	13.0	11.6	10.4	8.7	7.4	6.5	5.8
			40	0.40	30	24	19.8	17.0	14.9	13.2	11.9	9.9	8.5	7.4	6.6
			50	0.45	33	27	22	19.1	16.7	14.9	13.4	11.1	9.5	8.4	7.4
72786	72787	TQ150-04 (50)	20	0.35	26	21	17.3	14.9	13.0	11.6	10.4	8.7	7.4	6.5	5.8
			25	0.40	30	24	19.8	17.0	14.9	13.2	11.9	9.9	8.5	7.4	6.6
			30	0.43	32	26	21	18.2	16.0	14.2	12.8	10.6	9.1	8.0	7.1
			40	0.50	37	30	25	21	18.6	16.5	14.9	12.4	10.6	9.3	8.3
			50	0.56	42	33	28	24	21	18.5	16.6	13.9	11.9	10.4	9.2
72797	72798	TQ150-06 (50)	20	0.42	31	25	21	17.8	15.6	13.9	12.5	10.4	8.9	7.8	6.9
			25	0.47	35	28	23	19.9	17.4	15.5	14.0	11.6	10.0	8.7	7.8
			30	0.52	39	31	26	22	19.3	17.2	15.4	12.9	11.0	9.7	8.6
			40	0.60	45	36	30	25	22	19.8	17.8	14.9	12.7	11.1	9.9
			50	0.67	50	40	33	28	25	22	19.9	16.6	14.2	12.4	11.1
72799	72811	TQ150-08 (50)	20	0.57	42	34	28	24	21	18.8	16.9	14.1	12.1	10.6	9.4
			25	0.63	47	37	31	27	23	21	15.6	13.4	11.7	10.4	
			30	0.69	51	41	34	29	26	23	20	17.1	14.6	12.8	11.4
			40	0.80	59	48	40	34	30	26	24	19.8	17.0	14.9	13.2
			50	0.89	66	53	44	38	33	29	26	22	18.9	16.5	14.7
72812	72813	TQ150-09 (50)	20	0.64	48	38	32	27	24	21	19	15.8	13.6	11.9	10.6
			25	0.71	53	42	35	30	26	23	21	17.6	15.1	13.2	11.7
			30	0.78	58	46	39	33	29	26	23	19.3	16.5	14.5	12.9
			40	0.90	67	53	45	38	33	30	27	22	19.1	16.7	14.9
			50	1.01	75	60	50	43	37	33	30	25	21	18.7	16.7



**TeeJet Off-Center Flat Spray Tips - Smaller Capacities (Brass)**

TeeJet Off-Center spray tips are commonly installed in double and single swivel nozzle bodies. Because these bodies are adjustable for angular position, a wide spray swath is easily obtained.



(Brass) Part No.	PSI	Capacity 1-Nozzle	"H" = 18"								"H" = 24"				
			"W" in inches	GPA				"W" in inches	GPA						
				3 mph	4 mph	5 mph	6 mph		3 mph	4 mph	5 mph	6 mph			
72728															
72600	OC-02	30	0.17	68	5.0	3.7	3.0	2.5	75	4.5	3.4	2.7	2.2		
		40	0.20	70	5.7	4.2	3.4	2.8	77	5.1	3.9	3.1	2.6		
		60	0.24	72	6.6	5.0	4.0	3.3	78	6.1	4.6	3.7	3.0		
72601	OC-03	30	0.26	77	6.7	5.0	4.0	3.3	80	6.4	4.8	3.9	3.2		
		40	0.30	80	7.4	5.6	4.5	3.7	83	7.2	5.4	4.3	3.6		
		60	0.37	82	8.9	6.7	5.4	4.5	85	8.6	6.5	5.2	4.3		
72602	OC-04	30	0.35	91	7.6	5.7	4.6	3.8	93	7.5	5.6	4.5	3.7		
		40	0.40	93	8.5	6.4	5.1	4.3	94	8.4	6.3	5.1	4.2		
		60	0.49	94	10.3	7.7	6.2	5.2	95	10.2	7.7	6.1	5.1		
72603	OC-06	30	0.52	99	10.4	7.8	6.2	5.2	108	9.5	7.2	5.7	4.8		
		40	0.60	101	11.8	8.8	7.1	5.9	110	10.8	8.1	6.5	5.4		
		60	0.73	102	14.2	10.6	8.5	7.1	111	13.0	9.8	7.8	6.5		
72604	OC-08	30	0.69	100	13.7	10.2	8.2	6.8	110	12.4	9.3	7.5	6.2		
		40	0.80	102	15.5	11.6	9.3	7.8	112	14.1	10.6	8.5	7.1		
		60	0.98	104	18.7	14.0	11.2	9.3	113	17.2	12.9	10.3	8.6		
72605	OC-12	30	1.04	102	20	15.1	12.1	10.1	113	18.2	13.7	10.9	9.1		
		40	1.20	104	23	17.1	13.7	11.4	115	21	15.5	12.4	10.3		
		60	1.47	105	28	21	16.6	13.9	116	25	18.8	15.1	12.5		
72606	OC-16	30	1.39	132	21	15.6	12.5	10.4	142	19.4	14.5	11.6	9.7		
		40	1.60	138	23	17.2	13.8	11.5	146	22	16.3	13.0	10.8		
		60	1.96	143	27	20	16.3	13.6	148	26	19.7	15.7	13.1		






## FloodJet Wide Angle Flat Spray Tips



**QCK**

**QUICK FLOODJET**

**STAINLESS STEEL WITH  
VISIFLO® COLOR-CODING**

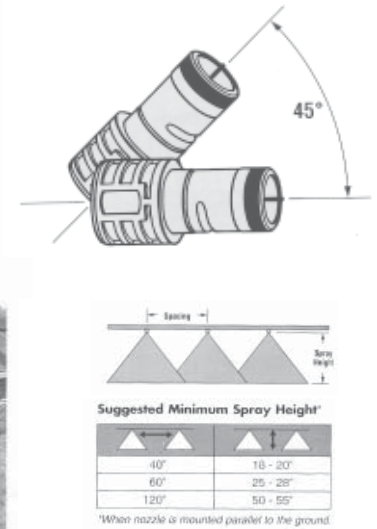
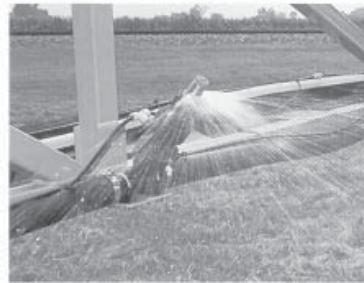
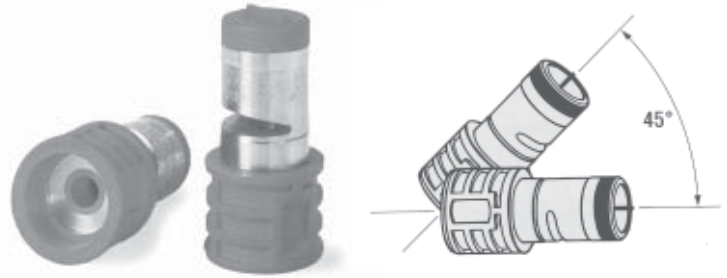
	 PSI	GPM	 GPA							
			4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	15 MPH	20 MPH
72626 QCK-20	10	2.00	74	59	50	37	30	25	19.8	14.9
	20	2.83	105	84	70	53	42	35	28	21
	30	3.46	128	103	86	64	51	43	34	26
	40	4.00	149	119	99	74	59	50	40	30
74282 QCK-30	10	3.00	74	59	50	37	30	25	19.8	14.9
	20	4.24	105	84	70	52	42	35	28	21
	30	5.20	129	103	86	64	51	43	34	26
	40	6.00	149	119	99	74	59	50	40	30
75141 QCK-40	10	4.00	99	79	66	50	40	33	26	19.8
	20	5.66	140	112	93	70	56	47	37	28
	30	6.93	172	137	114	86	69	57	46	34
	40	8.00	198	158	132	99	79	66	53	40
75142 QCK-60	10	6.00	149	119	99	74	59	50	40	30
	20	8.49	210	168	140	105	84	70	56	42
	30	10.4	257	206	171	129	103	86	69	51
	40	12.0	297	238	198	149	119	99	79	59
75143 QCK-80	10	8.00	198	158	132	99	79	66	53	40
	20	11.3	280	224	186	140	112	93	75	56
	30	13.9	344	275	229	172	138	115	92	69
	40	16.0	396	317	264	198	158	132	106	79
75144 QCK-100	10	10.0	248	198	165	124	99	83	66	50
	20	14.1	349	279	233	174	140	116	93	70
	30	17.3	428	343	285	214	171	143	114	86
	40	20.0	495	396	330	248	198	165	132	99
75145 QCK-120	10	12.0	297	238	198	149	119	99	79	59
	20	17.0	421	337	281	210	168	140	112	84
	30	20.8	515	412	343	257	206	172	137	103
	40	24.0	594	475	396	297	238	198	158	119
75146 QCK-150	10	15.0	371	297	248	186	149	124	99	74
	20	21.2	525	420	350	262	210	175	140	105
	30	26.0	644	515	429	322	257	215	172	129
	40	30.0	743	594	495	371	297	248	198	149
75147 QCK-180	10	18.0	446	356	297	223	178	149	119	89
	20	25.5	631	505	421	316	252	210	168	126
	30	31.2	772	618	515	386	309	257	206	154
	40	36.0	891	713	594	446	356	297	238	178
75148 QCK-210	10	21.0	520	416	347	260	208	173	139	104
	20	29.7	735	588	490	368	294	245	196	147
	30	36.4	901	721	601	450	360	300	240	180
	40	42.0	1040	832	693	520	416	347	277	208

**Quick Turbo FloodJet Wide Angle Flat Spray Tips**

The revolutionary Quick Turbo Floodjet nozzle combines the precision and uniformity of a flat spray nozzle with the clog-resistance and wide angle pattern of flooding nozzles. It uses an exclusive new design to increase droplet size and distribution uniformity.

**FEATURES:**

- Patented turbulence chamber creates a dramatic improvement in pattern uniformity
- Pre-orifice design produces larger droplets for reduced drift
- Large round orifice reduces clogging
- Grooved side molding for automatic alignment with any quick-connect coupler
- Stainless steel with color-coding for easy size identification
- Available in standard sizes from 1.5 GPM up to 24.0 GPM at pressures of 10-40 PSI



	PSI	Capacity 1 Nozzle in GPM	Large Capacity Quick Floodjet Nozzles Typical Spacing is 60"										
			GPA										
			60"										
			4 mph	5 mph	6 mph	7 mph	8 mph	9 mph	10 mph	12 mph	14 mph	16 mph	18 mph
QCTF-VS15	10	1.50	37	30	25	21	18.6	16.5	14.9	12.4	10.6	9.3	8.3
	20	2.12	52	42	35	30	26	23	21	17.5	15.0	13.1	11.7
	30	2.60	64	51	43	37	32	29	26	21	18.4	16.1	14.3
	40	3.00	74	59	50	42	37	33	30	25	21	18.6	16.5
QCTF-VS20	10	2.00	50	40	33	28	25	22	19.8	16.5	14.1	12.4	11.0
	20	2.83	70	56	47	40	35	31	28	23	20	17.5	15.6
	30	3.46	86	69	57	49	43	38	34	29	24	21	19.0
	40	4.00	99	79	66	57	50	44	40	33	28	25	22
QCTF-VS30	10	3.00	74	59	50	42	37	33	30	25	21	18.6	16.5
	20	4.24	105	84	70	60	52	47	42	35	30	26	23
	30	5.20	129	103	86	74	64	57	51	43	37	32	29
	40	6.00	149	119	99	85	74	66	59	50	42	37	33
QCTF-VS40	10	4.00	99	79	66	57	50	44	40	33	28	25	22
	20	5.66	140	112	93	80	70	62	56	47	40	35	31
	30	6.93	172	137	114	98	86	76	69	57	49	43	38
	40	8.00	198	158	132	113	99	88	79	66	57	50	44
QCTF-VS50	10	5.00	124	99	83	71	62	55	50	41	35	31	28
	20	7.07	175	140	117	100	87	78	70	58	50	44	39
	30	8.66	214	171	143	122	107	95	86	71	61	54	48
	40	10.00	248	198	165	141	124	110	99	83	71	62	55
QCTF-VS60	10	6.00	149	119	99	85	74	66	59	50	42	37	33
	20	8.49	210	168	140	120	105	93	84	70	60	53	47
	30	10.4	257	206	172	147	129	114	103	86	74	64	57
	40	12.0	297	238	198	170	149	132	119	99	85	74	66
QCTF-VS80	10	8.00	198	158	132	113	99	88	79	66	57	50	44
	20	11.3	280	224	186	160	140	124	112	93	80	70	62
	30	13.9	344	275	229	197	172	153	138	115	98	86	76
	40	16.0	396	317	264	226	198	176	158	132	113	99	88
QCTF-VS100	10	10.0	248	198	165	141	124	110	99	83	71	62	55
	20	14.1	349	279	233	199	174	155	140	116	100	87	78
	30	17.3	428	343	285	245	214	190	171	143	122	107	95
	40	20.0	495	396	330	283	248	220	198	165	141	124	110
QCTF-VS120	10	12.0	297	238	198	170	149	132	119	99	85	74	66
	20	17.0	421	337	281	240	210	187	168	140	120	105	94
	30	20.8	515	412	343	294	257	229	206	172	147	129	114
	40	24.0	594	475	396	339	297	264	238	198	170	149	132



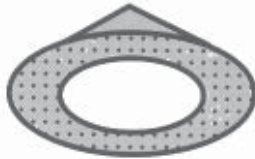
**1/4" WRW Whirl Rain Nozzle**

**FOR BROADCAST SPRAYING**

This is a wide-angle (120°), hollow cone nozzle. The Whirl-Rain® is used for post-emerge broadcast applications where a more finely atomized spray is needed to completely saturate the plant or weed surface.

**FEATURES:**

- Color-coding makes it easy to match nozzle flow rates for easy identification
- Made from color-coded thermo-resin.
- Delivers a uniform, hollow-cone spray pattern and finely atomized spray for thorough coverage.
- Large passageways combine with lack of internal vanes or distributors to minimize clogging.
- Well suited for foliar spraying and for use in mist blowers.

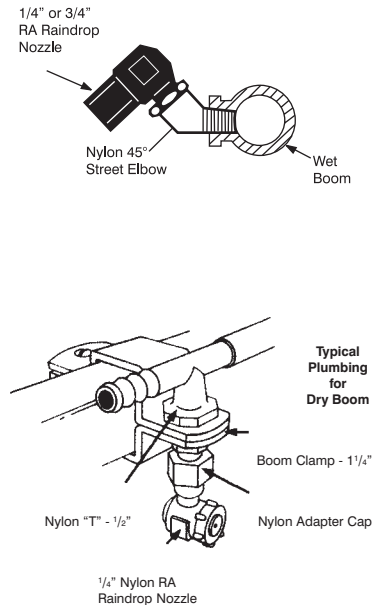


**SMALL DROPLET SIZE**

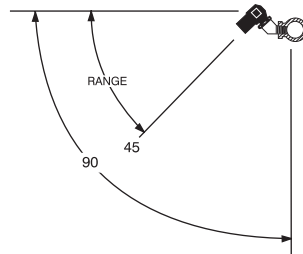
**(VOLUME MEDIAN DIAMETER: 225 MICRONS AT 40PSIG AND .5 GPM.)**

Part Number	Replaces	Color Code	Tip Material
72700	...WRW2 120	Grey	Nylon
72701	...WRW4 120	Yellow	Nylon
72702	...WRW5 120	Dk. Blue	Nylon
72703	...WRW6 120	Dk. Green	Nylon
72704	...WRW10 120	Tan	Nylon
72705	...WRW15 120	Lt. Blue	Nylon
72706	...WRW20 120	Lt. green	Nylon

**SUGGESTED INSTALLATION FOR RA RAINDROP NOZZLES**

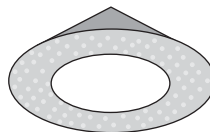
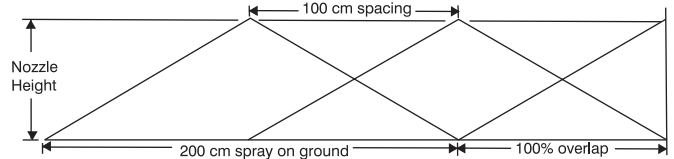


**Recommended Nozzle Positioning (for most uniform coverage)**



**Recommended overlap and nozzle height**

100% overlap of spray pattern is recommended for RA Raindrop and WRW Whirl-Rain Nozzles for uniform coverage. Nozzle height is determined by measuring the width of the spray pattern as it hits the ground. This width should be 100% greater or twice as wide as the nozzle spacing. Adjust nozzle height until this is achieved. If a decision to tilt the nozzle is made, do it before measuring the width of the spray on the ground and adjusting nozzle height.



- Small Size Droplet (Volume median diameter 225 microns at 276 kPa and 1.9 L/min)

**SEE PAGE 3-26 FOR APPLICATION CHART**

**Delavan 1/4" RA Raindrop Nozzle**

This is a wide-angle(120°), hollow cone, drift-reduction nozzle. Replaces conventional flooding nozzles in broadcast applications

**Maximum Recommended Pressure:**

Nylon: 700 kPa (100 psi)

**Maximum Recommended Temperature:**

50°C (120°F)

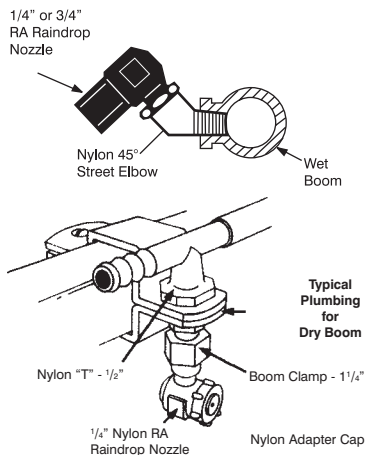


**Features:**

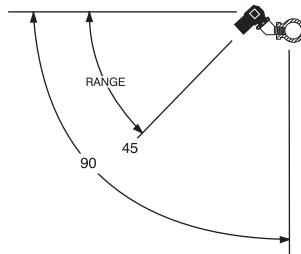
- Color-coding makes it easy to match nozzle flow rates for easy identification.
- Uniform spray distribution
- A large orifice opening and passages minimize clogging
- The Raindrop nozzle's patented design element, a secondary swirl chamber in the nozzle cap, alters the swirling action of the liquid so that fewer driftable "fines" are discharged from the secondary orifice

Part No.	Replaces	Color Code	Tip Material	Pressure (psi)	Capacity 1 Nozzle (gpm)	US Gallons Gallons per acre - based on water					Pressure (kPa)	Capacity 1 Nozzle (gpm)	Metric Litres per hectare - based on water				
						40" Spacing							100 cm Spacing				
						4 mph	5 mph	6 mph	7.5 mph	10 mph			5 km/h	6 km/h	8 km/h	10 km/h	12 km/h
72690	1/4RA-2 120	Yellow	Nylon	20	.14	5.3	4.2	3.5	2.8	2.1	150	.56	89	74	56	44.7	37.2
				30	.17	6.4	5.1	4.3	3.4	2.6	200	.64	103	86	64	52	43
				40	.20	7.4	5.9	5.0	4.0	3.0	275	.76	121	101	76	60	50
				50	.22	8.3	6.6	5.5	4.4	3.3	360	.85	136	114	85	68	57
72691	1/4RA-4 120	Orange	Nylon	20	.28	10.5	8.4	7.0	5.6	4.2	150	1.12	179	149	112	89	74
				30	.35	12.9	10.3	8.6	6.9	5.1	200	1.29	206	172	129	103	86
				40	.40	14.9	11.9	9.9	7.9	5.9	275	1.51	242	202	151	121	101
				50	.45	16.6	13.3	11.1	8.9	6.6	350	1.71	273	227	171	136	114
72692	1/4RA-4 120	Brown	Nylon	20	.36	13.1	10.5	8.8	7.0	5.3	150	1.40	223	186	140	112	93
				30	.44	16.1	12.9	10.7	8.6	6.4	200	1.61	258	215	161	129	107
				40	.50	18.6	14.9	12.4	9.9	7.4	275	1.89	302	252	189	151	126
				50	.56	21	16.6	13.8	11.1	8.4	350	2.13	341	284	213	171	142
72693	1/4RA-6 120	Grey	Nylon	20	.43	15.8	12.6	10.5	8.4	6.3	150	1.67	268	223	167	134	112
				30	.52	19.3	15.4	12.9	10.3	7.7	200	1.93	309	258	193	155	129
				40	.60	22	17.8	14.8	11.9	8.9	275	2.27	363	302	227	181	151
				50	.67	25	19.9	16.6	13.3	10.0	350	2.56	409	341	256	205	171
72694	1/4RA-8 120	Red	Nylon	20	.57	21	16.8	14.0	11.2	8.4	150	2.23	357	298	223	179	149
				30	.70	26	20	17.1	13.7	10.3	200	2.58	413	344	258	206	172
				40	.80	30	24	19.8	15.8	11.9	275	3.02	484	403	302	242	202
				50	.90	33	27	22	17.7	13.3	350	3.41	546	455	341	273	227
72695	1/4RA-10 120	Tan	Nylon	20	.71	26	21	17.5	14.0	10.5	150	2.79	447	375	279	223	186
				30	.87	32	26	21	17.1	12.9	200	3.22	516	430	322	258	215
				40	1.0	37	30	25	19.8	14.9	275	3.78	605	504	378	302	252
				50	1.1	42	33	28	22	16.6	350	4.26	682	568	426	341	264
72696	1/4RA-15 120	Lt. Blue	Nylon	20	1.1	39	31	26	21	15.8	150	4.18	672	560	420	336	280
				30	1.3	48	38	32	26	19.3	200	4.84	784	653	490	392	327
				40	1.5	56	45	37	30	22	275	5.67	912	760	570	458	380
				50	1.7	62	50	42	33	25	350	6.40	1024	853	640	512	427

**Suggested Installation for RA Raindrop Nozzles**

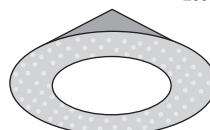
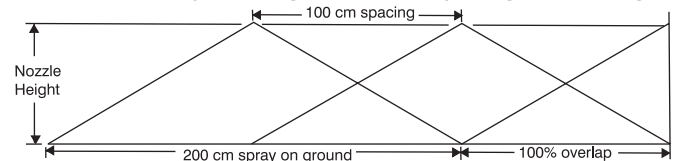


**Recommended Nozzle Positioning (for most uniform coverage)**



**Recommended overlap and nozzle height**

100% overlap of spray pattern is recommended for RA Raindrop and WRW Whirl-Rain Nozzles for uniform coverage. Nozzle height is determined by measuring the width of the spray pattern as it hits the ground. This width should be 100% greater or twice as wide as the nozzle spacing. Adjust nozzle height until this is achieved. If a decision to tilt the nozzle is made, do it before measuring the width of the spray on the ground and adjusting nozzle height.



- Large Size Droplet (Volume median diameter 810 microns at 276 kPa and 1.9 L/min)

**Delavan 3/4" RA Raindrop Drift Reduction Nozzle**

**For Broadcast Spraying in Custom Application**

This is a wide-angle (140°), hollow-cone, drift-reduction nozzle. Replaces conventional flooding nozzles in high-volume, high-speed broadcast applications with floatation or truck-mounted equipment



**Max. Recommended Pressure:**

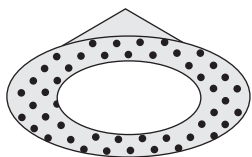
Thermo-resin: 100 psig (7 bars)

**Max. Recommended Temperature:**

120°F (50°C)

**Features:**

- Color-coding of the popular sizes makes it easy to match nozzle flow rates for easy identification. Made of colour-coded thermo-resin. Body is color-coded; cap will be black. Other sizes will be all black
- Reduces drastically the amount of driftable spray particles or "fines" (droplets under 100 micrometers).
- Uniform spray distribution.
- A large orifice opening and passages minimizes clogging.
- The raindrop nozzle's patented design element, a secondary swirl chamber in the nozzle cap, alters the swirling action of the liquid so that fewer driftable "fines" are discharged from the secondary orifice.



Large droplet size (volume median diameter: 810 microns at 40 psig adn .5 gpm)

**3/4" WRW WHIRL-RAIN® CONE SPRAY NOZZLE**

Part No.	Nozzle Size (3/4" inlet)	Replaces	Pressure PSI	Capacity 1 Nozzle GPM	Gallons per acre - based on water										
					40" Spacing					60" Spacing					
					5 mph	7.5 mph	10 mph	12 mph	16 mph	5 mph	7.5 mph	10 mph	12 mph	16 mph	18 mph
72625	RA-20 140°	36662-1	20	1.4	42	28	21	17.5	13.1	28	18.7	14.0	11.7	8.8	7.8
			30	1.7	51	34	26	21	16.1	34	23	17.1	14.3	10.7	9.5
			40	2.0	59	40	30	25	18.6	40	26	19.8	16.5	12.4	11.0
			50	2.2	66	44	33	28	21	44	29	22.1	18.5	13.8	12.3
72656	RA-25 140°	36662-16	20	1.8	52	35	26	22	16.4	35	23	17.5	14.6	10.9	9.7
			30	2.2	64	43	32	27	20	43	29	21	17.9	13.4	11.9
			40	2.5	74	50	37	31	23	50	33	25	21	15.5	13.8
			50	2.8	83	55	42	35	26	55	37	28	23	17.3	15.4
72657	RA-30 140°	36662-2	20	2.1	63	42	32	26	19.7	42	28	21	17.5	13.1	11.7
			30	2.6	77	51	39	32	24	51	34	26	21	16.1	14.3
			40	3.0	89	59	45	37	28	59	40	30	25	18.6	16.5
			50	3.3	100	66	51	42	31	66	44	33	28	21	18.4
72683	RA-35 140°	36662-17	20	2.5	74	49	37	31	23	49	33	24	20	15.3	13.6
			30	3.0	90	60	45	38	28	60	40	30	25	18.8	16.7
			40	3.5	104	69	52	43	32	69	46	35	29	22	19.2
			50	3.9	116	77	58	48	36	77	52	39	32	24	22
72684	RA-40 140°	36662-9	20	2.8	84	56	42	35	26	56	37	28	23	17.5	15.6
			30	3.5	103	69	51	43	32	69	46	34	29	21	19.1
			40	4.0	119	79	59	50	37	79	53	40	33	25	22
			50	4.5	133	89	66	55	42	89	59	44	37	28	25
72697	RA-45 140°	36662-18	20	3.2	94	63	47	39	30	63	42	32	26	19.7	17.5
			30	3.9	116	77	58	48	36	77	51	39	32	24	21
			40	4.5	134	89	67	56	42	89	59	45	37	28	25
			50	5.0	149	100	75	62	47	100	66	50	42	31	28
72698	RA-50 140°	36662-3	20	3.5	105	70	53	44	33	70	47	35	29	22	19.4
			30	4.3	129	86	64	54	40	86	57	43	36	27	24
			40	5.0	149	99	74	62	46	99	66	50	41	31	28
			50	5.5	166	111	84	69	52	111	74	55	46	35	31
72699	RA-55 140°	36662-19	20	3.9	116	77	58	48	36	77	51	38	32	24	21
			30	4.8	141	94	71	59	44	94	63	47	39	29	26
			40	5.5	163	109	82	68	51	109	73	54	45	34	30
			50	6.1	183	122	91	76	57	122	81	61	51	38	34
72707	RA-60 140°	36662-10	20	4.2	126	84	63	52	39	84	56	42	35	26	23
			30	5.2	154	103	77	64	48	103	69	51	43	32	29
			40	6.0	178	119	89	74	56	119	79	59	50	37	33
			50	6.7	199	133	100	83	62	133	89	66	55	42	37
72708	RA-65 140°	36662-20	20	4.6	137	91	68	57	43	91	61	46	38	28	25
			30	5.7	167	111	84	70	52	111	74	56	46	35	31
			40	6.5	193	129	97	80	60	129	86	64	54	40	36
			50	7.2	216	144	108	90	67	144	96	72	60	45	40
72709	RA-70 140°	36662-11	20	4.9	147	98	74	61	46	98	65	49	41	31	27
			30	6.1	180	120	90	75	56	120	80	60	50	38	33
			40	7.0	208	139	104	87	65	139	92	69	58	43	38
			50	7.8	232	155	116	97	73	155	103	77	65	48	43

Specific gravity and viscosity of a solution may affect the flow of RA Raindrop nozzles somewhat differently than they do flood nozzles. Therefore we recommend using the flow rate (GPA) of the nozzle based on water as the calibration point.

PART NO.	REPLACES
72685	WRW20
72686	WRW30
72687	WRW40
72688	WRW60
72689	WRW80



**TeeJet Disc-Core Type Cone Spray Tips**

For spraying pesticides at higher pressures and flow rates. Especially suitable for wettable powders and other abrasive chemicals.

- Produces small droplets for thorough coverage with contact pesticides and foliar applications.
- Maximum spray pressure to 300 psi (20 bar).

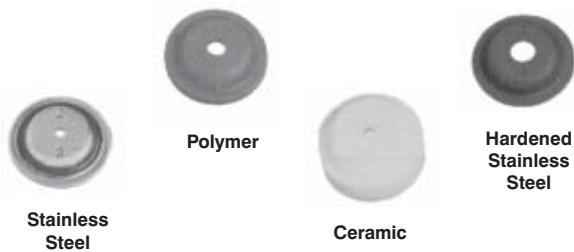
**Full Cone Spray Pattern**

Produced by Cores #31, 33, 35 & 56



			GPM												
			10 PSI	20 PSI	30 PSI	40 PSI	60 PSI	80 PSI	100 PSI	150 PSI	200 PSI	300 PSI	20 PSI	40 PSI	80 PSI
D1	DC31	.031"	.08	.11	.13	.15	.18	.20	.23	.27	.31	.37	49°	47°	43°
D1.5	DC31	.036"	.10	.14	.17	.19	.23	.26	.29	.35	.40	.48	57°	65°	53°
D2	DC31	.041"	.12	.16	.19	.22	.26	.30	.33	.40	.45	.55	62°	63°	61°
D3	DC31	.047"	.13	.18	.21	.24	.29	.33	.37	.44	.50	.60	63°	65°	63°
D1	DC33	.031"	.09	.11	.12	.14	.17	.20	.22	.26	.30	.37	27°	32°	35°
D1.5	DC33	.036"	.12	.15	.17	.19	.23	.26	.30	.36	.41	.50	37°	43°	45°
D2	DC33	.041"	.13	.17	.21	.24	.29	.33	.37	.45	.52	.63	45°	52°	55°
D3	DC33	.047"	.15	.21	.25	.29	.36	.41	.45	.55	.63	.76	48°	54°	57°
D4	DC33	.063"	.20	.28	.34	.39	.47	.54	.60	.73	.83	1.02	50°	56°	61°
D1	DC35	.031"	.08	.11	.13	.14	.17	.20	.22	.26	.29	.35	19°	23°	26°
D1.5	DC35	.036"	.10	.14	.17	.19	.23	.26	.29	.34	.39	.46	23°	27°	29°
D2	DC35	.041"	.14	.18	.24	.25	.30	.34	.37	.45	.51	.60	40°	44°	47°
D3	DC35	.047"	.16	.22	.26	.30	.36	.41	.45	.55	.62	.74	45°	50°	52°
D4	DC35	.063"	.27	.37	.44	.50	.60	.70	.79	.93	1.1	1.3	68°	70°	71°
D5	DC35	.078"	.34	.48	.58	.66	.80	.92	1.0	1.2	1.4	1.7	67°	69°	71°
D2	DC56	.041"	-	-	.21	.25	.30	.35	.39	.47	.55	.67	-	14°	17°
D3	DC56	.047"	-	-	.29	.34	.41	.48	.53	.65	.75	.92	-	20°	23°
D4	DC56	.063"	-	.39	.48	.55	.67	.78	.87	1.06	1.23	1.51	20°	26°	29°
D5	DC56	.078"	.38	.54	.66	.76	.93	1.08	1.20	1.47	1.69	2.08	26°	32°	34°
D6	DC56	.094"	.55	.78	.95	1.10	1.35	1.55	1.74	2.13	2.46	3.02	34°	39°	41°
D7	DC56	.109"	.76	1.07	1.32	1.52	1.86	2.15	2.40	2.94	3.40	4.16	45°	52°	54°
D8	DC56	.125"	.96	1.36	1.67	1.93	2.36	2.73	3.05	3.73	4.32	5.28	52°	57°	59°
D10	DC56	.156"	1.35	1.91	2.34	2.70	3.31	3.82	4.26	5.22	6.03	7.39	62°	65°	67°

**ORIFICE DISCS**



**CORES**



DISC	CERAMIC	POLYMER	HARDENED STAINLESS STEEL	TUNGSTEN CARBIDE
D1	72995	-	72830	-
D1.5	-	-	72831	-
D2	72854	72935	72832	72843
D3	72855	72936	72833	72844
D4	72856	72996	72834	72845
D5	72857	72997	72835	72846
D6	72858	72998	72836	72847
D7	72859	72937	72837	72848
D8	72860	72999	72838	72849
D10	72861	-	72839	72850

CORE	CERAMIC	POLYMER	HARDENED STAINLESS STEEL	BRASS
DC31	72893	72879	72886	72868
DC33	72894	72880	72887	72869
DC35	72895	72881	72888	72870
DC56	72929	73080	72898	73081

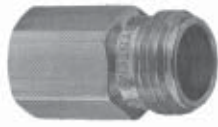
**TYPICAL ASSEMBLY WITH CERAMIC DISC AND CORE**



CP26277-1-NY  
Quick TeeJet®  
Cap for ceramic  
disc and core.  
**See Section 4  
for caps.**

**Strainer Note:** For nozzles using orifice disc no. 1, 1.5, and 2; or core no. 31 and 33, slotted strainer no. 72993 equivalent to 25 mesh screen size is required. For all other larger capacity discs and cores, slotted strainer no. 72994 equivalent to 16 mesh screen size is required.

**TeeJet Disc-Core Type Cone Spray Tips**



TeeJet Nozzle Body



Slotted Strainer



Core



Disc



TeeJet Cap

**Hollow Cone Spray Pattern**

Produced by Cores #13, 23, 25, 45 & 46



			GPM									
			10 PSI	20 PSI	30 PSI	40 PSI	60 PSI	80 PSI	100 PSI	150 PSI	200 PSI	300 PSI
D1	DC13	.031"	-	-	.059	.066	.078	.088	.097	.115	.128	.152
D1.5	DC13	.036"	-	.057	.067	.075	.088	.098	.110	.127	.142	.167
D2	DC13	.041°	-	.064	.075	.08	.10	.11	.12	.14	.16	.18
D3	DC13	.047"	-	.071	.08	.09	.11	.12	.13	.16	.18	.20
D4	DC13	.063"	.070	.09	.11	.12	.14	.16	.17	.20	.23	.27
D1	DC23	.031"	-	-	.064	.072	.080	.096	.107	.124	.139	.164
D1.5	DC23	.036"	-	.064	.076	.086	.103	.117	.130	.155	.175	.210
D2	DC23	.041"	-	.078	.092	.10	.13	.14	.16	.19	.21	.25
D3	DC23	.047"	.065	.087	.10	.12	.14	.16	.18	.21	.24	.28
D4	DC23	.063"	.082	.113	.14	.15	.19	.21	.23	.28	.32	.38
D5	DC23	.078"	.095	.13	.16	.18	.22	.25	.28	.34	.38	.46
D6	DC23	.094"	.112	.15	.19	.21	.26	.29	.32	.39	.45	.54
D1	DC25	.031"	-	-	.088	.101	.122	.138	.156	.185	.210	.255
D1.5	DC25	.036"	-	-	.118	.135	.162	.185	.205	.245	.280	.33
D2	DC25	.041"	-	.12	.14	.16	.19	.22	.25	.29	.34	.41
D3	DC25	.047"	.10	.14	.17	.19	.23	.26	.29	.35	.40	.48
D4	DC25	.063"	.15	.21	.25	.29	.35	.40	.45	.54	.62	.75
D5	DC25	.078"	.18	.25	.30	.35	.42	.48	.54	.65	.75	.90
D6	DC25	.094"	.23	.32	.39	.44	.54	.62	.70	.85	.97	1.19
D7	DC25	.109"	.26	.37	.45	.52	.63	.73	.81	.98	1.18	1.37
D8	DC25	.125"	.31	.43	.53	.61	.75	.89	.97	1.19	1.36	1.68
D10	DC25	.156"	.38	.54	.65	.76	.93	1.07	1.21	1.48	1.71	2.1
D12	DC25	.188"	.46	.61	.80	.93	1.15	1.32	1.47	1.81	2.09	2.55
D14	DC25	.219"	.51	.72	.88	1.03	1.26	1.47	1.65	2.02	2.34	2.89
D1	DC45	.031"	-	-	-	.125	.148	.170	.190	.225	.257	.310
D1.5	DC45	.036"	-	-	.14	.16	.20	.23	.25	.31	.35	.43
D2	DC45	.041"	-	.14	.18	.20	.25	.28	.32	.38	.44	.53
D3	DC45	.047"	-	.17	.20	.23	.28	.33	.36	.44	.51	.62
D4	DC45	.063"	.18	.25	.31	.36	.43	.50	.56	.68	.78	.95
D5	DC45	.078"	.23	.32	.39	.45	.55	.64	.71	.86	.99	1.22
D6	DC45	.094"	.29	.41	.50	.58	.72	.83	.93	1.15	1.33	1.64
D7	DC45	.109"	.33	.48	.59	.68	.84	.97	1.11	1.35	1.57	1.94
D8	DC45	.125"	.41	.59	.72	.84	1.04	1.21	1.35	1.68	1.94	2.40
D10	DC45	.156"	.54	.77	.94	1.10	1.35	1.57	1.77	2.18	2.50	3.10
D12	DC45	.188"	.67	.95	1.17	1.36	1.68	1.95	2.20	2.69	3.11	3.80
D14	DC45	.218"	.75	1.07	1.32	1.53	1.89	2.19	2.45	3.00	3.49	4.30
D16	DC45	.250"	.86	1.25	1.54	1.79	2.20	2.57	2.89	3.54	4.11	5.20
D1	DC46	.031"	-	-	-	.145	.178	.205	.23	.28	.32	.39
D1.5	DC46	.036"	-	-	-	.213	.260	.300	.33	.41	.46	.56
D2	DC46	.041"	-	-	.24	.27	.33	.37	.42	.50	.57	.68
D3	DC46	.047"	-	.23	.28	.32	.39	.45	.51	.61	.70	.86
D4	DC46	.063"	.28	.39	.48	.56	.68	.78	.88	1.07	1.23	1.52
D5	DC46	.078"	.38	.54	.66	.77	.94	1.10	1.25	1.50	1.73	2.13
D6	DC46	.094"	.55	.78	.95	1.10	1.35	1.58	1.73	2.16	2.50	3.06
D7	DC46	.109"	-	.98	1.22	1.39	1.72	1.97	2.22	2.73	3.15	3.85
D8	DC46	.125"	-	-	1.59	1.84	2.25	2.62	2.93	3.60	4.17	5.05
D10	DC46	.156"	-	-	2.15	2.48	3.05	3.53	3.96	4.83	5.59	6.80

**ORIFICE DISCS**

DISC	CERAMIC	POLYMER	HARDENED	
			STAINLESS STEEL	TUNGSTON CARBIDE
D1	72995	-	72830	-
D1.5	-	-	72831	-
D2	72854	72935	72832	72843
D3	72855	72936	72833	72844
D4	72856	72996	72834	72845
D5	72857	72997	72835	72846
D6	72858	72998	72836	72847
D7	72859	72937	72837	72848
D8	72860	72999	72838	72849
D10	72861	-	72839	72850
D12	72862	-	72840	72851
D14	72863	-	72841	72852
D16	72864	-	72842	-

**CORES**

DISC	CERAMIC	POLYMER	HARDENED
			STAINLESS STEEL
DC13	72890	72876	72883
DC23	72891	72877	72884
DC25	72892	72878	72885
DC45	72896	72882	72889
DC46	73082	73083	73084
DISC	BRASS	ALUMINUM	
DC13	72865	72872	
DC23	72866	72873	
DC25	72867	72874	
DC45	72871	72875	
DC46	72928	73085	

**Strainer Note:** For nozzles using orifice disc no. 1, 1.5, and 2; or core No. 31 and 33, slotted strainer no. 72993 equivalent to 25 mesh screen size is required. For all other larger capacity discs and cores, slotted strainer No. 72994 equivalent to 16 mesh screen size is required.

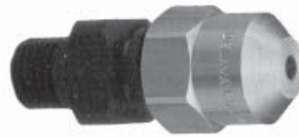
**Raindrop® (Disc-Core) Drift Reduction RD Nozzle Tip**

**FOR BROADCAST, DIRECTED AND AERIAL SPRAY APPLICATIONS**

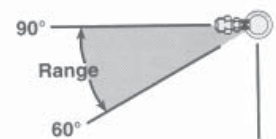
This is a hollow-cone spray tip (disc, core, spacer, cap) which will drastically reduce the number of driftable spray particles. Replaces conventional nozzles in broadcast, directed and aerial applications.

- Large slots minimize plugging
- The Raindrop nozzle's patented design element, a secondary swirl chamber, alters the swirling action of the liquid so that fewer driftable "fines" are discharged from the secondary orifice.
- Nozzle cap and disc are available in 303 stainless steel and the core in Thermoplastic.
- Spray angles are 80° - 100°, depending on disc-core combination.

MAX. RECOMMENDED PRESSURE: 500 psig (34.5 bars)  
MAX. RECOMMENDED TEMPERATURE: 120°F (50°C)



Position RD Raindrop nozzles 60° to 90° from the perpendicular. At the 90° position the spray coverage will be the most uniform but wind and sprayer construction may necessitate a lower angle.



**COMPLETE ASSEMBLY  
STAINLESS STEEL,  
THERMOPLASTIC**

Nozzle Tip Number and Spray Angle
RD 1-90
RD 2-80
RD 3-90
RD 4-90
RD 5-85
RD 6-90 (72740)
RD 7-90
RD 8-90
RD9-90
RD 10-100
RD 11-90
RD 12-90
RD 13-90

**RD RAINDROP® AERIAL CAPACITY CHART**

Pressure (PSIG)	Capacity (1-Nozzle) in GPM											For Aerial Applications Only	
	RD-1 (5-23)	RD-2 (4-25)	RD-3 (5-25)	RD-4 (6-25)	RD-5 (6-45)	RD-6 (7-45)	RD-7 (8-45)	RD-8 (10-45)	RD-9 (12-45)	RD-10 (14-45)	RD-11 (6-46)	RD-12 (7-46)	RD-13 (8-46)
20	.130	.210	.250	.321	.408	.482	.588	.766	.946	1.07	.780	.980	1.29
21	.135	.214	.255	.330	.419	.493	.602	.782	.966	1.10	.800	1.00	1.33
22	.139	.218	.260	.338	.429	.505	.618	.800	.994	1.13	.820	1.03	1.36
23	.143	.222	.265	.344	.439	.518	.632	.820	1.02	1.16	.840	1.06	1.39
24	.147	.226	.272	.349	.449	.528	.644	.840	1.04	1.18	.850	1.08	1.42
25	.150	.230	.277	.354	.458	.538	.660	.860	1.07	1.20	.870	1.10	1.45
26	.151	.234	.282	.362	.467	.549	.672	.878	1.08	1.23	.890	1.13	1.48
27	.155	.238	.287	.370	.474	.558	.684	.894	1.10	1.25	.900	1.15	1.51
28	.157	.242	.292	.376	.482	.568	.698	.908	1.12	1.27	.920	1.17	1.53
29	.159	.246	.297	.381	.490	.579	.710	.922	1.15	1.30	.940	1.19	1.56
30	.161	.250	.302	.387	.498	.589	.722	.940	1.17	1.32	.950	1.22	1.59
31	.163	.254	.308	.392	.507	.599	.738	.958	1.18	1.35	.970	1.24	1.61
32	.165	.258	.313	.398	.514	.608	.750	.974	1.20	1.37	.980	1.25	1.64
33	.167	.262	.318	.402	.522	.617	.761	.966	1.23	1.40	1.00	1.27	1.67
34	.169	.266	.323	.408	.530	.626	.774	1.00	1.25	1.42	1.02	1.29	1.69
35	.171	.270	.328	.413	.538	.635	.784	1.02	1.26	1.44	1.03	1.31	1.72
36	.173	.274	.333	.419	.547	.642	.798	1.04	1.28	1.45	1.04	1.33	1.74
37	.175	.278	.338	.424	.555	.651	.808	1.05	1.30	1.47	1.06	1.35	1.77
38	.177	.282	.343	.430	.563	.660	.820	1.07	1.32	1.50	1.07	1.36	1.79
39	.178	.286	.348	.435	.571	.669	.832	1.09	1.34	1.52	1.08	1.38	1.81
40	.180	.290	.353	.440	.580	.678	.842	1.10	1.36	1.53	1.10	1.39	1.84

Greenleaf Technologies

# TURBODROP®



## MEDIUM PRESSURE TURBODROP® XL VENTURI NOZZLE

Greenleaf's patented TurboDrop® XL Venturi Nozzle offers a unique combination of superior drift control and excellent coverage, making it an ideal choice for all of your spraying applications.

The TurboDrop®XL Venturi can also be used with other spray tips; simply double the size of extended range, turbo flat fan, flood or off center nozzles. (Example: 03 venturi uses 11006 spray tip.) The Venturi controls the flow rate, and the tip creates the pattern.

## ADVANTAGES OF THE TURBODROP®XL VENTURI AND NOZZLE

### Wide Pressure Range:

TDXL: 20-120 psi  
TDCXL: 30-120 psi

### Wide Drift Control Range:

Sizes 01-02: 20-60+ psi  
Sizes 025-04: 20-80+ psi  
Sizes 05-10: 20-100+ psi

### Separate Injector (Venturi)

Comes apart by hand, easy to clean (no tools required)

### Patented Stabilization Chamber

Even and uniform mixing of air with liquid which gives a tighter, more uniform droplet spectrum and a homogeneous spray solution across a wide operating range.

### Excellent With Rate Controllers

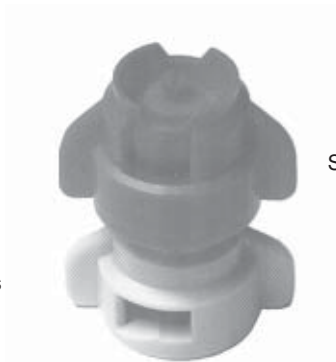
Wide pressure range allows greatest speed variations.

### Improved Coverage, Reduced Runoff

Air-filled droplets spread on the target surface rather than bouncing off.

### Reduced Clogging

Round metering orifice versus elliptical slit.



### Interchangeable Tip/Cap

Two spray nozzles in one.  
Other tips may also be used.

### Proven TurboDrop® Technology

Over 7 years, in 35 countries.

### Longer Wear Life

TDXL: 20-30,000 Acres  
TDCXL: 60-80,000 Acres

### Patented Pulsation Dampener

Stable, uniform spray pattern across pressure range gives good patterning and coverage.

### Widest Variety of Applications

Recommended for herbicides, fungicides, insecticides, fertilizers, growth regulators, etc.

### More Spray on Target

Dramatic reduction of off-target movement, even in higher winds.

### Lower Water Usage

Both air and water are used as a carrier. (Excellent for Glyphosate at 5-10 GPA)

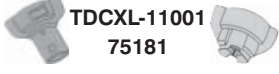
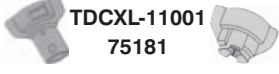
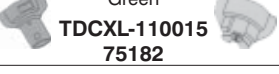
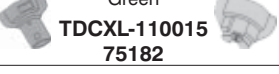
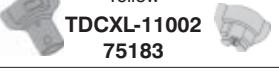
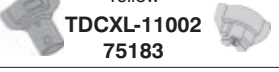
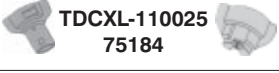
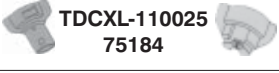
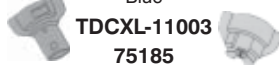
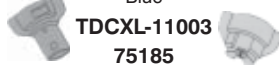
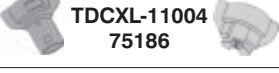
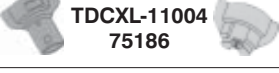
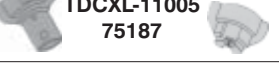
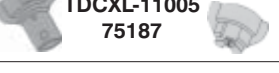
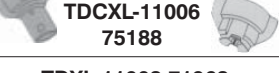
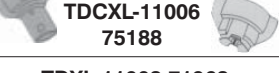
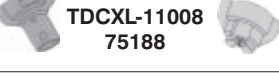
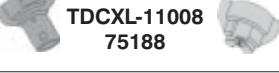



TurboDrop® TDXL-110025 Nozzle @ 50 psi

Extended Range 11003 Nozzle @ 35 psi

**TDXL GREENLEAF TURBODROP XL NOZZLE TABULATION**

TurboDrop Nozzles consist of two primary components - the venturi air aspirator and the exit pattern tip. The orifice in the venturi determines the flow rate of the complete assembly. The venturi is ISO color coded to designate flow rate. The exit pattern tip does not affect flow rate; it is only used to form the desired spray pattern. Polyacetal venturi body with polyacetal TipCap nozzle and EPDM seat gasket. Pressure range: 15-120 PSI Best Drift Control: 15-60 PSI Recommended Boom Height: 24-40" (with 20" nozzle spacing) **TD<sup>CXL</sup>** Medium Pressure Ceramic XL Venturi Nozzle—Multi-purpose medium pressure air induction nozzle. 30-120 PSI Overall pressure range; 30-90 PSI Optimal pressure range; 50-80,000 acres Estimated life (60" boom, 20" centers) Polyacetal venturi body with alumina ceramic metering orifice, polyacetal TipCap nozzle and EPDM seat gasket.

COMPLETE NOZZLE # ISO COLOR CODE	LIQUID PRESS. (PSI)	*NOZZLE CAPACITY	US GALLONS PER ACRE (BASED ON 20" NOZZLE SPACING)										REPLACEMENT POLY TIP CAP
			4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	14 MPH	16 MPH	18 MPH	20 MPH	
<b>TDXL-11001 71960</b> (complete Nozzle #) Orange 	15	0.06	4.5	3.6	3.0	2.3	1.8	1.5	1.3	1.1	1.0	0.9	71971
	20	0.07	5.2	4.2	3.5	2.6	2.1	1.7	1.5	1.3	1.2	1.0	
	30	0.09	6.4	5.1	4.3	3.2	2.6	2.1	1.8	1.6	1.4	1.3	
	40	0.10	7.4	5.9	4.9	3.7	3.0	2.5	2.1	1.9	1.6	1.5	
	50	0.11	8.3	6.6	5.5	4.1	3.3	2.8	2.4	2.1	1.8	1.7	
	60	0.12	9.1	7.3	6.1	4.5	3.6	3.0	2.6	2.3	2.0	1.0	
	100	0.16	11.17	9.4	7.8	5.9	4.7	3.9	3.4	2.9	2.6	2.2	
<b>TD<sup>CXL</sup>-11001 75181</b> 	80	0.14	10.5	8.4	7.0	5.2	4.2	3.5	3.0	2.6	2.3	2.1	
	100	0.16	11.17	9.4	7.8	5.9	4.7	3.9	3.4	2.9	2.6	2.2	
<b>TDXL-110015 71961</b> (complete Nozzle #) Green 	15	0.09	6.8	5.5	4.5	3.4	2.7	2.3	1.9	1.7	1.5	1.4	71972
	20	0.11	7.9	6.3	5.2	3.9	3.1	2.6	2.2	2.0	1.7	1.6	
	30	0.13	9.6	7.7	6.4	4.8	3.9	3.2	2.8	2.4	2.1	1.0	
	40	0.15	11.1	8.9	7.4	5.6	4.5	3.7	3.2	2.8	2.5	2.2	
	50	0.17	12.4	10.0	8.3	6.2	5.0	4.1	3.6	3.1	2.8	2.5	
	60	0.18	13.6	10.9	9.1	6.8	5.5	4.5	3.9	3.4	3.0	2.7	
	100	0.24	15.7	12.6	10.5	7.9	6.3	5.2	4.5	3.9	3.5	3.1	
<b>TD<sup>CXL</sup>-110015 75182</b> 	80	0.21	15.7	12.6	10.5	7.9	6.3	5.2	4.5	3.9	3.5	3.1	
	100	0.24	17.6	14.1	11.7	8.8	7.0	5.9	5.0	4.4	3.9	3.5	
<b>TDXL-11002 79162</b> (complete Nozzle #) Yellow 	15	0.12	11.4	9.1	7.6	5.1	3.5	2.8	2.5	2.0	1.8	71973	
	20	0.14	10.5	8.4	7.0	5.9	4.2	3.5	3.0	2.6	2.3		2.0
	30	0.17	12.9	10.3	8.6	6.4	5.1	4.3	3.7	3.2	2.9		2.6
	40	0.20	14.8	11.9	9.9	7.4	5.9	4.9	4.2	3.7	3.3		3.0
	50	0.22	16.6	13.3	11.1	8.3	6.6	5.5	4.8	4.1	3.7		3.3
	60	0.24	18.2	14.5	12.1	9.1	7.3	6.1	5.2	4.5	4.0		3.6
	100	0.32	23.5	18.8	15.6	11.7	9.4	7.8	6.7	5.9	5.2		4.7
<b>TD<sup>CXL</sup>-11002 75183</b> 	80	0.28	21.0	16.8	14.0	10.5	8.4	7.0	6.0	5.2	4.7	4.2	
	100	0.32	23.5	18.8	15.6	11.7	9.4	7.8	6.7	5.9	5.2	4.7	
<b>TDXL-110025 71963</b> (complete Nozzle #) Purple 	15	0.15	11.4	9.1	7.6	5.7	4.5	3.8	3.2	2.8	2.5	2.3	71974
	20	0.18	13.1	10.5	8.7	6.6	5.2	4.4	3.7	3.3	2.9	2.6	
	30	0.22	16.1	12.9	10.7	8.0	6.4	5.4	4.6	4.0	3.6	3.2	
	40	0.25	18.5	14.8	12.4	9.3	7.4	6.2	5.3	4.6	4.1	3.7	
	50	0.28	20.7	16.6	13.8	10.4	8.3	6.9	5.9	5.2	4.6	4.1	
	60	0.31	22.7	18.2	15.1	11.4	9.1	7.6	6.5	5.7	5.0	4.5	
	100	0.40	29.3	23.5	19.6	14.7	11.7	9.8	8.4	7.3	6.5	5.8	
<b>TD<sup>CXL</sup>-110025 75184</b> 	80	0.35	26.2	21.0	17.5	13.1	10.5	8.7	7.5	6.6	5.8	5.2	
	100	0.40	29.3	23.5	19.6	14.7	11.7	9.8	8.4	7.3	6.5	5.9	
<b>TDXL-11003 71964</b> (complete Nozzle #) Blue 	15	0.18	13.6	10.9	9.1	6.8	5.5	4.5	3.9	3.4	3.0	2.7	71977
	20	0.21	15.7	12.6	10.5	7.9	6.3	5.2	4.4	3.9	3.5	3.1	
	30	0.26	19.3	15.4	12.9	9.6	7.7	6.4	5.5	4.8	4.3	3.9	
	40	0.30	22.3	17.8	14.8	11.1	8.9	7.4	6.4	5.6	4.9	4.5	
	50	0.34	24.9	19.9	16.6	12.4	10.0	8.3	7.1	6.2	5.5	5.0	
	60	0.37	27.3	21.8	18.2	13.6	10.9	9.1	7.8	6.8	6.1	5.5	
	100	0.47	35.2	28.2	23.5	17.6	14.1	11.7	10.1	8.8	7.8	7.0	
<b>TD<sup>CXL</sup>-11003 75185</b> 	80	0.42	31.5	25.2	21.0	15.7	12.6	10.5	9.0	7.9	7.0	6.3	
	100	0.47	35.2	28.2	23.5	17.6	14.1	11.7	10.1	8.8	7.8	7.0	
<b>TDXL-11004 71965</b> (complete Nozzle #) Red 	15	0.24	18.2	14.5	12.1	9.1	7.3	6.1	5.2	4.5	4.0	3.6	71978
	20	0.28	21.0	16.8	14.0	10.5	8.4	7.0	6.0	5.2	4.7	4.2	
	30	0.35	25.7	20.6	17.1	12.9	10.3	8.7	7.3	6.4	5.7	5.1	
	40	0.40	29.7	23.7	19.8	14.8	11.9	9.9	8.5	7.4	6.6	5.9	
	50	0.45	33.2	26.5	22.1	16.6	13.3	11.1	9.5	8.3	7.4	6.6	
	60	0.49	36.3	29.1	24.2	18.2	14.5	12.1	10.4	9.1	8.1	7.3	
	100	0.57	42.0	33.6	28.3	21.0	16.8	14.0	12.0	10.5	9.3	8.4	
<b>TD<sup>CXL</sup>-11004 75186</b> 	80	0.57	42.0	33.6	28.3	21.0	16.8	14.0	12.0	10.5	9.3	8.4	
	100	0.63	46.9	37.5	31.3	23.5	18.8	15.6	13.4	11.7	10.4	9.4	
<b>TDXL-11005 71966</b> (complete Nozzle #) Brown 	15	0.31	22.7	18.2	15.2	11.4	9.1	7.6	6.5	5.7	5.1	4.5	71979
	20	0.35	26.3	21.0	17.5	13.1	10.5	8.8	7.5	6.6	5.8	5.3	
	30	0.43	32.2	25.7	21.4	16.1	12.9	10.7	9.2	8.0	7.1	6.4	
	40	0.50	37.1	29.7	24.8	18.6	14.7	12.4	10.6	9.3	8.3	7.4	
	50	0.56	42.5	33.2	27.7	21.0	16.6	13.8	11.9	10.4	9.2	8.3	
	60	0.061	45.5	36.4	30.3	22.7	18.2	15.2	13.0	11.4	10.1	9.1	
	100	0.71	52.5	42.0	35.0	26.3	21.0	17.5	15.0	13.1	11.7	10.5	
<b>TD<sup>CXL</sup>-11005 75187</b> 	80	0.71	52.5	42.0	35.0	26.3	21.0	17.5	15.0	13.1	11.7	10.5	
	100	0.79	58.7	47.0	39.2	29.4	23.5	19.6	16.8	14.7	13.1	11.7	
<b>TDXL-11006 71967</b> (complete Nozzle #) Gray 	15	0.31	22.7	18.2	15.2	11.4	9.1	7.6	6.5	5.7	5.1	4.5	71980
	20	0.42	31.5	25.2	21.0	15.8	12.6	10.5	9.0	7.9	7.0	6.3	
	30	0.52	38.6	30.7	25.7	19.3	15.4	12.9	11.0	9.6	8.6	7.7	
	40	0.60	44.6	35.7	29.7	22.3	17.8	14.9	12.7	11.1	9.9	8.9	
	50	0.67	49.8	39.9	33.2	24.9	19.9	16.6	14.2	12.5	11.1	10.0	
	60	0.74	54.6	43.7	36.4	27.3	21.8	18.2	15.6	13.6	12.1	10.9	
	100	0.85	63.0	50.4	42.0	32.5	25.2	21.0	18.0	15.8	14.0	12.6	
<b>TD<sup>CXL</sup>-11006 75188</b> 	80	0.85	63.0	50.4	42.0	32.5	25.2	21.0	18.0	15.8	14.0	12.6	
	100	0.95	70.5	56.4	47.0	35.2	28.2	23.5	20.1	17.6	15.7	14.1	
<b>TDXL-11008 71968</b> (complete Nozzle #) White 	15	0.49	36.2	29.1	24.2	18.1	14.5	12.1	10.4	9.1	8.1	7.2	71930
	20	0.56	41.8	33.5	27.9	20.9	16.7	13.9	12.0	10.5	9.3	8.4	
	30	0.69	51.2	41.0	34.2	25.6	20.5	17.1	14.6	12.8	11.4	10.2	
	40	0.80	59.2	47.3	39.4	29.6	23.7	19.7	16.9	14.8	13.1	11.8	
	50	0.89	66.2	52.9	44.1	33.1	26.5	22.1	18.9	16.5	14.7	13.2	
	60	0.98	72.5	58.0	48.3	36.2	29.0	24.2	20.7	18.1	16.1	14.5	
	100	1.13	83.7	66.9	55.8	41.8	33.5	27.9	23.9	20.9	18.6	16.7	
<b>TD<sup>CXL</sup>-11008 75188</b> 	80	1.13	83.7	66.9	55.8	41.8	33.5	27.9	23.9	20.9	18.6	16.7	
	100	1.26	93.6	74.8	62.4	46.8	37.4	31.2	26.7	23.4	20.8	18.7	
<b>TDXL-11010 71969</b> (complete Nozzle #) Black 	15	0.61	45.4	36.3	30.3	22.7	18.2	15.1	13.0	11.4	10.1	9.1	71931
	20	0.71	52.5	42.0	35.0	26.2	21.0	17.5	15.0	13.1	11.7	10.5	
	30	0.87	64.3	51.4	42.9	32.1	25.7	21.4	18.4	16.1	14.3	12.9	
	40	1.00	74.										



## Turbodrop Venturi and Nozzle TDVC

Spray nozzles are often the most neglected component of the sprayer, and yet they could be considered your most important tool for safely and accurately applying the expensive crop protection products used today. To a large extent, spray nozzles determine the placement, coverage, and efficiency of the pesticides and other agricultural chemicals vital to productive farming. **Maximize the investment in your spray system with the most effective spray nozzles.**

### TURBODROP TECHNOLOGY MAY BE THE MOST IMPORTANT ADDITION YOU CAN MAKE TO YOUR SPRAYER.

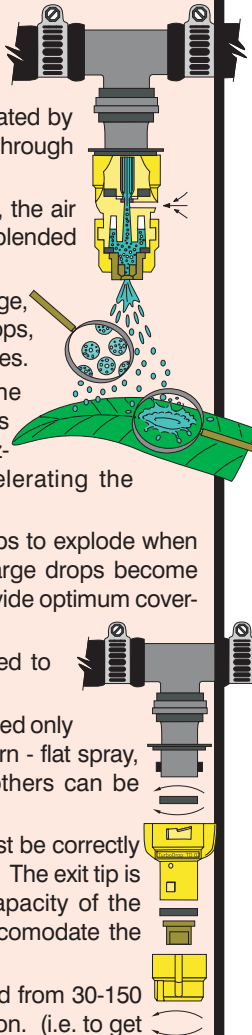
The TurboDrop Nozzle, or the TurboDrop Venturi used with standard nozzles, can dramatically improve the application of crop protection chemicals. Reduced drift, improved coverage and increased efficiency are just a few of the benefits possible. On all types of spray application equipment, TurboDrop is *The Smart Way to Spray*.



#### TURBODROP NOZZLE TECHNOLOGY

TurboDrop nozzles produce large, air-filled drops that give **extraordinary drift reduction** and excellent penetration. Upon impact with the target, the drops shatter into very small droplets, providing **exceptional spray coverage**.

- Long-wearing ceramic orifice in venturi determines flow rate of nozzle.
- The pressure drop created by the venturi draws air in through the hole in the venturi.
- In the mixing chamber, the air and spray solution are blended and compressed.
- The pattern tip forms large, drift resistant spray drops, filled with tiny air bubbles.
- The air included in the spray liquid expands as it exits the pattern nozzle, additionally accelerating the drops.
- Air bubbles cause drops to explode when they hit the target. Large drops become small droplets that provide optimum coverage for best efficiency.
- Venturis are color-coded to ISO standard.
- The exit pattern tip is used only to create a spray pattern - flat spray, flood, offcenter and others can be used.
- The exit pattern tip must be correctly matched to the venturi. The exit tip is generally twice the capacity of the venturi, in order to accommodate the added air.
- Pressure may be varied from 30-150 psi to suit the application. (i.e. to get the best penetration into the crop canopy, pressures above 60 psi should be used)



#### ADVANTAGES OF THE TURBODROP VENTURI AND NOZZLE

**REDUCED DRIFT** - TurboDrop eliminates the long vapour trails behind field sprayers and allows spraying in wind speeds twice that of conventional nozzles.

**BETTER PENETRATION** - The higher speed and larger size of the particles insure better penetration depth into the crop canopy.

**LOWER WATER USAGE** - Because air as well as water is used as a carrier, reductions in water usage are possible.

**REDUCED RUN-OFF** - The air-filled drops of the TurboDrop are lighter than the coarse drops of standard nozzles, and tend to spread out on the plant surface rather than bounce off.

**GREATER USEFUL PRESSURE RANGE** - TurboDrop nozzles are designed for operating at pressures of 30-150 psi without drift problems and without high wear.

**IMPROVED COVERAGE** - The air-filled drops collapse on contact and wet a greater leaf surface.

**REDUCED NOZZLE CLOGGING** - Because the metering orifice is round instead of elliptical, potential for clogging is reduced.

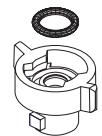
**HIGHER DRIVING SPEEDS** - Larger drop size and higher velocity make it possible to operate at higher speeds and cover greater acreage more effectively.

**RETROFIT CAPABILITY** - TurboDrop nozzles and venturis fit wherever standard nozzles are installed.

**HIGHEST WEAR RESISTANCE** - The ceramic metering orifice, which is ten times harder than stainless steel, provides long term accuracy and reduced tip wear.



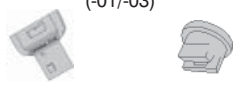
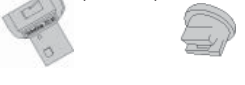
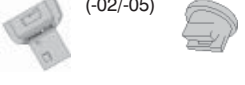





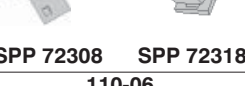

Combo Jet Nozzle Bodies require an Adapter (Part No. SPP 72199) and O-ring (Part No. SPP 72121).



**TurboDrop**  
 THE SMART WAY TO SPRAY

**TDVC Greenleaf TurboDrop Nozzle Tabulations**

TurboDrop nozzles consist of two primary components - the venturi air aspirator and the exit pattern tip. A ceramic orifice in the venturi determines the flow rate of the complete assembly. The venturi is ISO color coded to designate flow rate. The exit pattern tip does not affect flow rate - it is only used to form the desired spray pattern. A wide range of pattern tips can be used - Flat Spray, Flood, Off Center, Cone Spray, etc. Polyacetal venturi body with alumina ceramic metering orifice and EPDM seat gasket.

DESCRIPTION & PART NO. VENTURI ONLY	LIQUID PRESS.(PSI)	*NOZZLE CAPACITY	US GALLONS PER ACRE(BASED ON 20" NOZZLE SPACING)										
			4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	14 MPH	16 MPH	18 MPH	20 MPH	
<b>110-01</b> (-01/-03)  <b>SPP 72300 SPP 72310</b>	40	0.10	7.4	5.9	4.9	3.7	3.0	2.5	2.1	1.9	1.6	1.5	
	50	0.11	8.3	6.6	5.5	4.1	3.3	2.8	2.4	2.1	1.8	1.7	
	60	0.12	9.1	7.3	6.1	4.5	3.6	3.0	2.6	2.3	2.0	1.8	
	70	0.13	9.8	7.9	6.5	4.9	3.9	3.3	2.8	2.5	2.2	2.0	
	80	.014	10.5	8.4	7.0	5.2	4.2	3.5	3.0	2.6	2.3	2.1	
	90	0.15	11.1	8.9	7.4	5.6	4.5	3.7	3.2	2.8	2.5	2.2	
<b>110-015</b> (-015/-04)  <b>SPP 72301 SPP 72311</b>	40	0.15	11.1	8.9	7.4	5.6	4.5	3.7	3.2	2.8	2.5	2.2	
	50	0.17	12.4	10.0	8.3	6.2	5.0	4.1	3.6	3.1	2.8	2.5	
	60	0.18	13.6	10.9	9.1	6.8	5.5	4.5	3.9	3.4	3.0	2.7	
	70	0.20	14.7	11.8	9.8	7.4	5.9	4.9	4.2	3.7	3.3	2.9	
	80	0.21	15.7	12.6	10.5	7.9	6.3	5.2	4.5	3.9	3.5	3.1	
	90	0.22	16.7	13.4	11.1	8.3	6.7	5.6	4.8	4.2	3.7	3.3	
<b>110-02</b> (-02/-05)  <b>SPP 72302 SPP 72312</b>	40	0.20	14.8	11.9	9.9	7.4	5.9	4.9	4.2	3.7	3.3	3.0	
	50	0.22	16.6	13.3	11.1	8.3	6.6	5.5	4.7	4.1	3.7	3.3	
	60	0.24	18.2	14.5	12.1	9.1	7.3	6.1	5.2	4.5	4.0	3.6	
	70	0.26	19.6	15.7	13.1	9.8	7.9	6.5	5.6	4.9	4.4	3.9	
	80	0.28	21.0	16.8	14.0	10.5	8.4	7.0	6.0	5.2	4.7	4.2	
	90	0.30	22.3	17.8	14.8	11.1	8.9	7.4	6.4	5.6	4.9	4.5	
<b>110-025</b> (-025/-06)  <b>SPP 72303 SPP 72313</b>	40	0.25	18.5	14.8	12.4	9.3	7.4	6.2	5.3	4.6	4.1	3.7	
	50	0.28	20.7	16.6	13.8	10.4	8.3	6.9	5.9	5.2	4.6	4.1	
	60	0.31	22.7	18.2	15.1	11.4	9.1	7.6	6.5	5.7	5.0	4.5	
	70	0.33	24.5	19.6	16.4	12.3	9.8	8.2	7.0	6.1	5.5	4.9	
	80	0.35	26.2	21.0	17.5	13.1	10.5	8.7	7.5	6.6	5.8	5.2	
	90	0.37	27.8	22.3	18.5	13.9	11.1	9.3	7.9	7.0	6.2	5.6	
<b>110-03</b> (-03/-06)  <b>SPP 72304 SPP 72314</b>	40	0.30	22.3	17.8	14.8	11.1	8.9	7.4	6.4	5.6	4.9	4.5	
	50	0.34	24.9	19.9	16.6	12.4	10.0	8.3	7.1	6.2	5.5	5.0	
	60	0.37	27.3	21.8	18.2	13.6	10.9	9.1	7.8	6.8	6.1	5.5	
	70	0.40	29.4	23.6	19.6	14.7	11.8	9.8	8.4	7.4	6.5	5.9	
	80	0.42	31.5	25.2	21.0	15.7	12.6	10.5	9.0	7.9	7.0	6.3	
	90	0.45	33.4	26.7	22.3	16.7	13.4	11.1	9.5	8.3	7.4	6.7	
<b>110-04</b> (-04/-10)  <b>SPP 72305 SPP 72315</b>	40	0.40	29.7	23.7	19.8	14.8	11.9	9.9	8.5	7.4	6.6	5.9	
	50	0.45	33.2	26.5	22.1	16.6	13.3	11.1	9.5	8.3	7.4	6.6	
	60	0.49	36.3	29.1	24.2	18.2	14.5	12.1	10.4	9.1	8.1	7.3	
	70	0.53	39.3	31.4	26.2	19.6	15.7	13.1	11.2	9.8	8.7	7.9	
	80	0.57	42.0	33.6	28.0	21.0	16.8	14.0	12.0	10.5	9.3	8.4	
	90	0.60	44.5	35.6	29.7	22.3	17.8	14.8	12.7	11.1	9.9	8.9	
<b>110-05</b> (-05/-15)  <b>SPP 72306 SPP 72316</b>	40	0.50	37.1	29.7	24.8	18.6	14.9	12.4	10.6	9.3	8.3	7.4	
	50	0.56	41.5	33.2	27.7	20.8	16.6	13.8	11.9	10.4	9.2	8.3	
	60	0.61	45.5	36.4	30.3	22.7	18.2	15.2	13.0	11.4	10.1	9.1	
	70	0.66	49.1	39.3	32.8	24.6	19.7	16.4	14.0	12.3	10.9	9.8	
	80	0.71	52.5	42.0	35.0	26.3	21.0	17.5	15.0	13.1	11.7	10.5	
	90	0.75	55.7	44.6	37.1	27.9	22.3	18.6	15.9	13.9	12.4	11.1	
<b>110-06</b> (-06/-15)  <b>SPP 72307 SPP 72317</b>	40	0.60	44.6	35.7	29.7	22.3	17.8	14.9	12.7	11.1	9.9	8.9	
	50	0.67	49.8	39.9	33.2	24.9	19.9	16.6	14.2	12.5	11.1	10.0	
	60	0.74	54.6	43.7	36.4	27.3	21.8	18.2	15.6	13.6	12.1	10.9	
	70	0.79	59.0	47.2	39.3	29.5	23.6	19.7	16.8	14.7	13.1	11.8	
	80	0.85	63.0	50.4	42.0	31.5	25.2	21.0	18.0	15.8	14.0	12.6	
	90	0.90	66.8	53.5	44.6	33.4	26.7	22.3	19.1	16.7	14.9	13.4	
<b>110-08</b> (-08/-15)  <b>SPP 72308 SPP 72318</b>	40	0.80	59.2	47.3	39.4	29.6	23.7	19.7	16.9	14.8	13.1	11.8	
	50	0.89	66.2	52.9	44.1	33.1	26.5	22.1	18.9	16.5	14.7	13.2	
	60	0.98	72.5	58.0	48.3	36.2	29.0	24.2	20.7	18.1	16.1	14.5	
	70	1.05	78.3	62.6	52.2	39.1	31.3	26.1	22.4	19.6	17.4	15.7	
	80	1.13	83.7	66.9	55.8	41.8	33.5	27.9	23.9	20.9	18.6	16.7	
	90	1.20	88.8	71.0	59.2	44.4	35.5	29.6	25.4	22.2	19.7	17.8	
<b>110-06</b> (-10/-20)  <b>SPP 72309 SPP 72319</b>	40	1.00	74.2	59.4	49.5	37.1	29.7	24.7	21.2	18.5	16.5	14.8	
	50	1.12	83.0	66.4	55.3	41.5	33.2	27.7	23.7	20.7	18.4	16.6	
	60	1.22	90.9	72.7	60.6	45.4	36.3	30.3	26.0	22.7	20.2	18.2	
	70	1.32	98.2	78.5	65.4	49.1	39.3	32.7	28.0	24.5	21.8	19.6	
	80	1.41	104.9	83.9	70.0	52.5	42.0	35.0	30.0	26.2	23.3	21.0	
	90	1.50	111.3	89.0	74.2	55.6	44.5	37.1	31.8	27.8	24.7	22.3	

\*US Gallons Per Minute

The TurboDrop Nozzle and Turbo Venturi are rated for up to 150 psi.

## Greenleaf Venturi Nozzles

PART NO.	SIZE
71945	005
71946	01
71947	015
71948	02
71949	025
71950	03
71951	04
71952	05
71953	06
71954	08
71955	10



### TDXLV LOW PRESSURE TURBODROP® XL VENTURI

Multi-purpose low pressure venturi body without exit tip and cap. Accepts conventional caps and tips (Turbo flat fan, twin fan, hollow cone, flood, off center, etc.) Pattern tip must be double the size of the venturi. May require diffuser and cap.

Polyacetal venturi body with EPDM seat gasket



PART NO.	SIZE
71936	11001
71937	110015
71938	11002
71970	110025
71939	11003
71940	11004
71941	11005
71942	11006
71943	11008
71944	11010



### TDCFFP HIGH PRESSURE TURBODROP VENTURI NOZZLE

All purpose air induction nozzle with high quality long life ceramic metering orifice. Allows high pressure for best coverage without drift problems.

30 - 150 PSI overall pressure range

30 - 90 PSI drift control pressure range

50 - 80,000 acres estimated life (60' boom, 20" centers)

Polyacetal venturi body with alumina ceramic metering orifice polyacetal tip and cap, EPDM seat gasket.



**EXPLODED VIEW OF THE TDXLV**



**EXPLODED VIEW OF THE TDCFFP**

**FOR APPLICATION CHART SEE PAGE 3-31**

**QHC QUICK HOLLOW CONE SPRAY NOZZLE**

Quarter turn quick connect, hollow cone tip. For use with TurboDrop® Venturi or as a stand alone hollow cone tip. Polyacetal with EPDM seat gasket.



PART NO.	SIZE
71932	013
71933	023
71934	045
71935	068

**TCP**

All polyacetal

**SPRAYMAX™ TIPCAP SPRAY NOZZLE**

One piece extended range spray tip with integral quick connect cap. 15-60 PSI pressure range Requires gasket or Gripper Tip Strainer 110° only



PART NO.	SIZE
71971	02
71972	03
71973	04
71974	05
71977	06
71978	08
71979	10
71980	12
71930	16
71931	20

**TCS**

Stainless orifice with poly cap

**SPRAYMAX™ TIPCAP SPRAY NOZZLE**

One piece extended range spray tip with integral quick connect cap. 15-60 PSI pressure range Requires gasket or Gripper Tip Strainer



PART NO. 80°	PART NO. 110°	SIZE
71991	71983	02
71992	71984	03
71993	71985	04
71994	71986	05
71995	71987	06
71996	71988	08
71997	71989	10
71998	71990	12
71926	71928	16
71927	71929	20

**FOR APPLICATION RATE CHART SEE PAGE 3-33**

**GTS GRIPPER TIP STRAINER**

Tip strainer with an integral seat gasket. Polyacetal with stainless steel screen and EPDM gasket.



PART NO.	SIZE
71957	24m
71958	50m
71959	100m

**GH170 HARDI ADAPTER GASKET**

Allows sprayers with Hardi nozzle bodies to use TurboDrop® nozzles. EPDM



PART NO.
71956

**G125 GASKET**

One-hole gasket. EPDM



PART NO.
71976

**DIF4 DIFFUSER**

Use with 80° and narrower angle flat fan tips on TurboDrop® venturi. Also with 110° tips that are more than double the size of the venturi. EPDM and Polyacetal



PART NO.
71975

**Greenleaf Technologies Airmix Nozzle Tabulations**

Complete Nozzle # ISO Color Code	Liquid Pressure PSI	Nozzle Capacity GPM	Gallons per Acre Based on 20" Nozzle Spacing									
			4 mph	5 mph	6 mph	8 mph	10 mph	12 mph	14 mph	16 mph	18 mph	20 mph
AirMix-11001 Orange 74747	15	0.06	4.5	3.6	3.0	2.3	1.8	1.5	1.3	1.1	1.0	0.9
	20	0.07	5.2	4.2	3.5	2.6	2.1	1.7	1.5	1.3	1.2	1.0
	30	0.09	6.4	5.1	4.3	3.2	2.6	2.1	1.8	1.6	1.4	1.3
	40	0.10	7.4	5.9	4.9	3.7	3.0	2.5	2.1	1.9	1.6	1.5
	50	0.11	8.3	6.6	5.5	4.1	3.3	2.8	2.4	2.1	1.8	1.7
	60	0.12	9.1	7.3	6.1	4.5	3.6	3.0	2.6	2.3	2.0	1.8
	80	0.14	10.5	8.4	7.0	5.2	4.2	3.5	3.0	2.6	2.3	2.1
	90	0.15	11.1	8.9	7.4	5.6	4.5	3.7	3.2	2.8	2.5	2.2
AirMix-110015 Green 74748	15	0.09	6.8	5.5	4.5	3.4	2.7	2.3	1.9	1.7	1.5	1.4
	20	0.11	7.9	6.3	5.2	3.9	3.1	2.6	2.2	2.0	1.7	1.6
	30	0.13	9.6	7.7	6.4	4.8	3.9	3.2	2.8	2.4	2.1	1.9
	40	0.15	11.1	8.9	7.4	5.6	4.5	3.7	3.2	2.8	2.5	2.2
	50	0.17	12.4	10.0	8.3	6.2	5.0	4.1	3.6	3.1	2.8	2.5
	60	0.18	13.6	10.9	9.1	6.8	5.5	4.5	3.9	3.4	3.0	2.7
	80	0.21	15.7	12.6	10.5	7.9	6.3	5.2	4.5	3.9	3.5	3.1
	90	0.22	16.7	13.4	11.1	8.3	6.7	5.6	4.8	4.2	3.7	3.3
AirMix-11002 Yellow 74749	15	0.12	9.1	7.3	6.1	4.5	3.6	3.0	2.6	2.3	2.0	1.8
	20	0.14	10.5	8.4	7.0	5.2	4.2	3.5	3.0	2.6	2.3	2.1
	30	0.17	12.9	10.3	8.6	6.4	5.1	4.3	3.7	3.2	2.9	2.6
	40	0.20	14.8	11.9	9.9	7.4	5.9	4.9	4.2	3.7	3.3	3.0
	50	0.22	16.6	13.3	11.1	8.3	6.6	5.5	4.7	4.1	3.7	3.3
	60	0.24	18.2	14.5	12.1	9.1	7.3	6.1	5.2	4.5	4.0	3.6
	80	0.28	21.0	16.8	14.0	10.5	8.4	7.0	6.0	5.2	4.7	4.2
	90	0.30	22.3	17.8	14.8	11.1	8.9	7.4	6.4	5.6	4.9	4.5
AirMix-110025 Purple 74750	15	0.15	11.4	9.1	7.6	5.7	4.5	3.8	3.2	2.8	2.5	2.3
	20	0.18	13.1	10.5	8.7	6.6	5.2	4.4	3.7	3.3	2.9	2.6
	30	0.22	16.1	12.9	10.7	8.0	6.4	5.4	4.6	4.0	3.6	3.2
	40	0.25	18.5	14.8	12.4	9.3	7.4	6.2	5.3	4.6	4.1	3.7
	50	0.28	20.7	16.6	13.8	10.4	8.3	6.9	5.9	5.2	4.6	4.1
	60	0.31	22.7	18.2	15.1	11.4	9.1	7.6	6.5	5.7	5.0	4.5
	80	0.35	26.2	21.0	17.5	13.1	10.5	8.7	7.5	6.6	5.8	5.2
	90	0.37	27.8	22.3	18.5	13.9	11.1	9.3	7.9	7.0	6.2	5.6
AirMix-11003 Blue 74751	15	0.18	13.6	10.9	9.1	6.8	5.5	4.5	3.9	3.4	3.0	2.7
	20	0.21	15.7	12.6	10.5	7.9	6.3	5.2	4.5	3.9	3.5	3.1
	30	0.26	19.3	15.4	12.9	9.6	7.7	6.4	5.5	4.8	4.3	3.9
	40	0.30	22.3	17.8	14.8	11.1	8.9	7.4	6.4	5.6	4.9	4.5
	50	0.34	24.9	19.9	16.6	12.4	10.0	8.3	7.1	6.2	5.5	5.0
	60	0.37	27.3	21.8	18.2	13.6	10.9	9.1	7.8	6.8	6.1	5.5
	80	0.42	31.5	25.2	21.0	15.7	12.6	10.5	9.0	7.9	7.0	6.3
	90	0.45	33.4	26.7	22.3	16.7	13.4	11.1	9.5	8.3	7.4	6.7
AirMix-11004 Red 74752	15	0.24	18.2	14.5	12.1	9.1	7.3	6.1	5.2	4.5	4.0	3.6
	20	0.28	21.0	16.8	14.0	10.5	8.4	7.0	6.0	5.2	4.7	4.2
	30	0.35	25.7	20.6	17.1	12.9	10.3	8.6	7.3	6.4	5.7	5.1
	40	0.40	29.7	23.7	19.8	14.8	11.9	9.9	8.5	7.4	6.6	5.9
	50	0.45	33.2	26.5	22.1	16.6	13.3	11.1	9.5	8.3	7.4	6.6
	60	0.49	36.3	29.1	24.2	18.2	14.5	12.1	10.4	9.1	8.1	7.3
	80	0.57	42.0	33.6	28.0	21.0	16.8	14.0	12.0	10.5	9.3	8.4
	90	0.60	44.5	35.6	29.7	22.3	17.8	14.8	12.7	11.1	9.9	8.9
AirMix-11005 Brown 74753	15	0.31	22.7	18.2	15.2	11.4	9.1	7.6	6.5	5.7	5.1	4.5
	20	0.35	26.3	21.0	17.5	13.1	10.5	8.8	7.5	6.6	5.8	5.3
	30	0.43	32.2	25.7	21.4	16.1	12.9	10.7	9.2	8.0	7.1	6.4
	40	0.50	37.1	29.7	24.8	18.6	14.9	12.4	10.6	9.3	8.3	7.4
	50	0.56	41.5	33.2	27.7	20.8	16.6	13.8	11.9	10.4	9.2	8.3
	60	0.61	45.5	36.4	30.3	22.7	18.2	15.2	13.0	11.4	10.1	9.1
	80	0.71	52.5	42.0	35.0	26.3	21.0	17.5	15.0	13.1	11.7	10.5
	90	0.75	55.7	44.6	37.1	27.9	22.3	18.6	15.9	13.9	12.4	11.1
AirMix-11006 Gray 74762	15	0.37	27.3	21.8	18.2	13.6	10.9	9.1	7.8	6.8	6.1	5.5
	20	0.42	31.5	25.2	21.0	15.8	12.6	10.5	9.0	7.9	7.0	6.3
	30	0.52	38.6	30.9	25.7	19.3	15.4	12.9	11.0	9.6	8.6	7.7
	40	0.60	44.6	35.7	29.7	22.3	17.8	14.9	12.7	11.1	9.9	8.9
	50	0.67	49.8	39.9	33.2	24.9	19.9	16.6	14.2	12.5	11.1	10.0
	60	0.74	54.6	43.7	36.4	27.3	21.8	18.2	15.6	13.6	12.1	10.9
	80	0.85	63.0	50.4	42.0	31.5	25.2	21.0	18.0	15.8	14.0	12.6
	90	0.90	66.8	53.5	44.5	33.4	26.7	22.3	19.1	16.7	14.9	13.4



**Combo-Jet**



**Nozzle Bodies for Wet Booms** - available in single, double and triple configurations for 3/4" and 1" pipe. Double and triple lower bodies rotate in one direction only and lock firmly in place to resist accidental rotation. Nozzles shut-off positions are provided between each flow position.



**SINGLE WET BOOM**



**DOUBLE WET BOOM**



**TRIPLE WET BOOM**

**Nozzle Bodies for Dry Booms** - available in single, double and triple configurations with 5/8" square mount lugs. Accompanying hose shank adapters available in one way, two way, and three way configurations for 3/8", 1/2" and 3/4" hose.



**SINGLE DRY BOOM**



**TRIPLE DRY BOOM**



**COMPACT SQUARE MOUNT**

**Compact Dry Boom Bodies** - with integral 3/8", 1/2" or 3/4" hose shanks - excellent when mount space is limited. Available in 5/8" square lug mount or 11/16" thread mount (ideal for retrofit applications).

**SEE PAGE 3-37 THROUGH 3-41 FOR ORDERING INFORMATION**

## Combo-Jet Series



**FOR EXAMPLE: 58 VMD**

**ER80-02 40PSI**

### COMBO-JET ER SERIES

Extended Range Flat Fan Pattern  
 Droplet Size: Smallest  
 Coverage: Best  
 Drift Potential: Greatest

- 80° and 110° Spray Angle Stainless Steel orifices
- Excellent spray pattern over a wide range of pressures (20-60 PSI)
- International color coding of cap to flow rate
- Available in Sizes 005 to 60



**FOR EXAMPLE: 293 VMD**

**MR80-02 40PSI**

### COMBO-JET MR SERIES

Mid Range Flat Fan Pattern  
 Droplet Size: Medium  
 Coverage: Good  
 Drift Potential: Major Reduction

- 80° Spray Angle Stainless Steel exit orifices, easily serviceable and replaceable pre-orifices
- Superb Spray Pattern over a wide range of pressures (20-100 PSI)
- Compact Dual Orifice design without air entrainment
- Major Drift Reduction with least potential loss of coverage
- Available in Sizes 005 to 50



**FOR EXAMPLE: 415 VMD**

**DR80-02 40PSI**

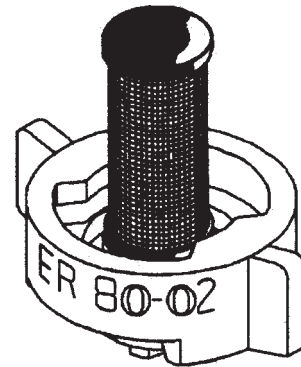
### COMBO-JET DR SERIES

Drift Reduction Flat Fan Pattern  
 Droplet Size: Biggest  
 Coverage: Not as good at low pressures  
 Drift Potential: Least

- 80° Spray Angle Stainless Steel exit orifice, easily serviceable and replaceable pre-orifices
- Superb Spray Pattern over a wide range of pressures (20-100 PSI)
- Compact Dual Orifice design without air entrainment
- Best Drift Reduction with minimal potential loss of coverage (at higher pressures)
- Available in Sizes 005 to 30

**Wilger Combo-Jet Combined Spray/Tip/Cap/Screen Nozzle System**

- Newest and best idea yet for sprayer nozzles
- Much safer and easier handling with rubber gloves
- Patent Pending
- See Page 3-40 for tip cap combination
- Stainless Steel Tip Insert is a permanent part of the cap so it is easier and safer to handle with rubber gloves.
- Larger Identification Markings for nozzle size and type. Indicate nominal capacity at 5 MPH and 40 PSI
- New Unique Nozzle Strainer snaps into the COMBO-JET cap and allows for convenient cleaning, again easier and safer to handle with rubber gloves. Large screen gives 40% extra area than conventional strainers for greater flow and debris collection capacity
- New "Radialock" Sealing and Locking System uses the resilience of the cap sidewalls for a positive lock in position instead of exerting excessive force and friction on the nozzle seal.
- Nozzle bodies available in single, double and triple head (Swivel-Jet) configuration for dry boom (3/4" hose barb) and wet boom (3/4" and 1" pipe), all with diaphragm check valves.
- Extended Range Flat Fan Tips up to 0.5 GPM in 80° and 110° spray angle, competitively priced.
- Caps and strainers available to accommodate other current standard tips.

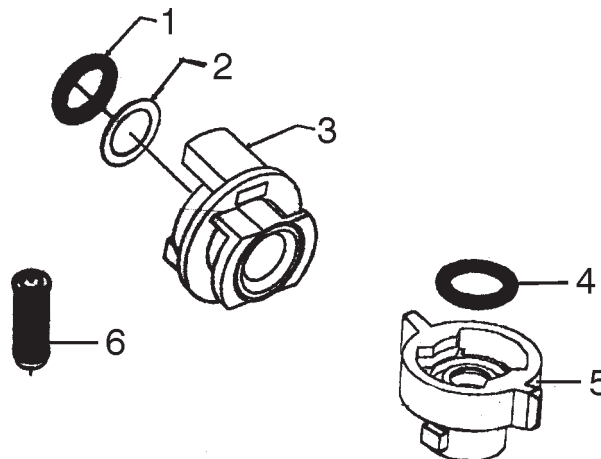


**WILGER INDUSTRIAL LTD.**

**Wilger Combo-Jet Conversion Adapters for Nozzle Bodies**

REF	PART NO.	REPLACES	DESCRIPTION
1	72048	40200-02	O-Ring (fits 72134, 72059 adapter)
2	72049	40200-03	Poly washer (used for extra seal compression when required)
3	72134	40200-00	Adapter assy - Conventional to Combo-Jet (includes seal)
3	72059	40202-00	Adapter assy - Hardi to Combo-Jet (includes seal)
4	72121	40260-00	EPDM O-Ring fits 72199 and all Combo-Jet tip cap combinations
4	77163	40260-V0	Viton O-Ring fits 72199 and all Combo-Jet tip cap combinations
5	72199	40203-00	Adapter assy - Combo-Jet to Conventional (includes seal)
6	72119	40250-00	Snap in 50 mesh screen
6	72120	40251-00	Snap in 100 mesh screen
6	77189	40247-00	Snap in slotted 16 mesh screen
6	77190	40248-00	Snap in slotted 25 mesh screen
6	77988	40249-00	Snap in slotted 50 mesh screen

Note: poly washer only required on precision (ARAG) and possibly other brands where a loose fit may cause leakage

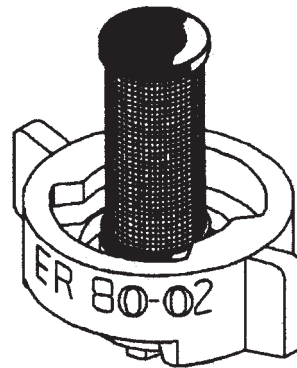




## Wilger Combo-Jet Cap and Tip

- Stainless steel tip insert is a permanent part of the cap so it is easier and safer to handle with rubber gloves.
- Large Identification markings for nozzle size and type. Indicate nominal capacity at 5 mph and 40 PSI
- New unique nozzle strainer snaps into the COMBO-JET cap and allows for convenient cleaning, again easier and safer to handle with rubber gloves. Large screen gives 40% extra area than conventional strainers for greater flow and debris collection capacity.

PART NO.	REPLACES	DESCRIPTION
77157	40270-005	ER80-005 tip and cap pink
72047	40270-007	ER80-67 tip and cap pink
72135	40270-01	ER80-01 tip and cap Orange
72136	40270-015	ER80-015 tip and cap green
72137	40270-02	ER80-02 tip and cap yellow
72196	40270-025	ER80-025 tip and cap purple
72138	40270-03	ER80-03 tip and cap blue
72139	40270-04	ER80-04 tip and cap red
72140	40270-05	ER80-05 tip and cap brown
72149	40270-06	ER80-06 tip and cap grey
72150	40270-08	ER80-08 tip and cap white
72395	40270-10	ER80-10 tip and cap light blue
77158	40270-125	ER80-125 tip and cap teal
72396	40270-15	ER80-15 tip and cap light green
72397	40270-20	ER80-20 tip and cap tan
77159	40270-25	ER80-25 tip and cap black
72398	40270-30	ER-80-30 tip and cap black
77160	40270-40	ER80-40 tip and cap black
77161	40270-50	ER80-50 tip and cap black
77162	40270-60	ER80-60 tip and cap black
72141	40281-01	ER110-01 tip and cap orange
72142	40281-015	ER110-015 tip and cap green
72143	40281-02	ER110-02 tip and cap yellow
72197	40281-025	ER110-02.5 tip and cap purple
72144	40281-03	ER110-03 tip and cap blue
72145	40281-04	ER110-04 tip and cap red
72146	40281-05	ER110-05 tip and cap brown
72147	40281-06	ER110-06 tip and cap grey
72148	40281-08	ER110-08 tip and cap white
72399	40281-10	ER100-10 tip and cap light blue

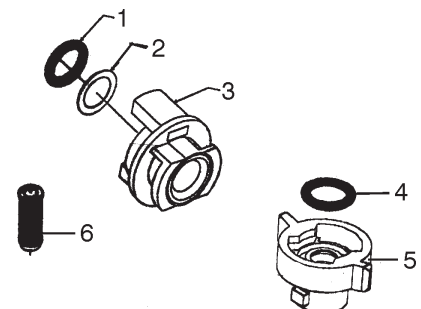


Shown with snap in screen  
(screen sold separately)

**APPLICATION CHART SEE PAGE 3-6**

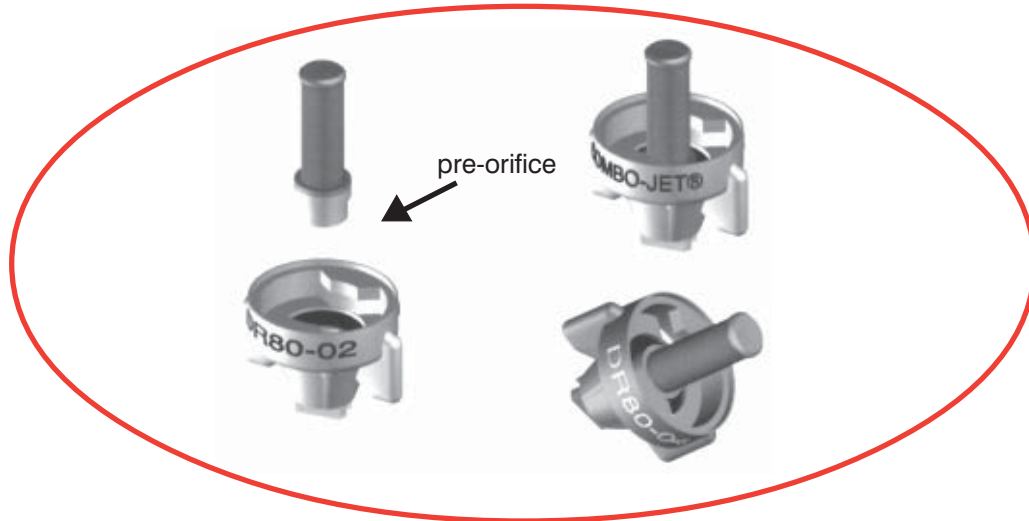
## Wilger Combo-Jet Screens and Adapters

REF	PART NO.	REPLACES	DESCRIPTION
1	72048	40200-02	O-Ring (fits 72134, 72059 adapter)
2	72049	40200-03	Poly Washer (used for extra seal compression when required)
3	72134	40200-00	Adapter assy - Conventional to Combo-Jet (includes seal)
3	72059	40202-00	Adapter assy - Hardi to Combo-Jet (includes seal)
4	72121	40260-00	EPDM O-Ring fits 72199 and all Combo-Jet tip cap combinations
4	77163	40260-V0	Viton O-Ring fits 72199 and all Combo-Jet tip cap combinations
5	72199	40203-00	Adapter assy - Combo-Jet to Conventional (includes seal)
6	72119	40250-00	Snap in 50 mesh screen
6	72120	40251-00	Snap in 100 mesh screen
6	77189	40247-00	Snap in slotted 16 mesh screen
6	77190	40248-00	Snap in slotted 25 mesh screen
6	77988	40249-00	Snap in slotted 50 mesh screen



**Wilger Combo-Jet Drift Reduction Nozzles**

**COMBINED SPRAY/TIP/CAP/SCREEN NOZZLE SYSTEM 80 DEGREE 'DR' SERIES**



**EXCELLENT DRIFT REDUCTION AND THE CONVENIENCE OF COMBO-JET**

Major advantages of Combo-Jet DR series

- Larger, but controlled droplet sizes with fewer oversized droplets that are not effective and waste chemicals.
- Reduction of 75 to 95% of driftable fines compared to standard nozzles.
- Compares favourably with air induction nozzles but have no air holes that are prone to plugging
- Available in 80° - preferable to other drift reduction tips which are only available in wider angle pattern that are more susceptible to drift. Ideal for high clearance machines.
- DR80-005 is the smallest drift reduction tip available. Competitive drift reduction tips are only available down to 110-015
- Combo-Jet convenience - can be handled with rubber gloves, even for cleaning
- Operating Pressure 20 to 100 PSI



Snap off screen side-ways to clean between screen and pre-orifice.



Pull out screen with pre-orifice to clean between exit orifice and pre-orifice.

**PRE-ORIFICE**

PART NO.	REPLACES	DESCRIPTION
SPP 77151	40285-005	Pre-orifice 80-005 black
SPP 77152	40285-007	Pre-orifice 80-0067 pink
SPP 79429	40285-01	Pre-orifice 80-01 orange
SPP 79430	40285-015	Pre-orifice 80-015 green
SPP 79431	40285-02	Pre-orifice 80-02 yellow
SPP 79432	40285-025	Pre-orifice 80-025 purple
SPP 79433	40285-03	Pre-orifice 80-03 blue
SPP 79434	40285-04	Pre-orifice 80-04 red
SPP 79435	40285-05	Pre-orifice 80-05 brown
SPP 79436	40285-06	Pre-orifice 80-06 grey
SPP 79437	40285-08	Pre-orifice 80-08 white
SPP 79438	40285-10	Pre-orifice 80-10 lt blue
SPP 77153	40285-125	Pre-orifice 80-125 teal
SPP 79439	40285-15	Pre-orifice 80-15 lt green
SPP 79440	40285-20	Pre-orifice 80-20 tan
SPP 79441	40285-25	Pre-orifice 80-25 black
SPP 77153	40285-125	Pre-orifice 80-125 teal
SPP 77154	40285-30	Pre-orifice 80-30 black
SPP 77155	40285-40	Pre-orifice 80-40 black
SPP 77156	40285-50	Pre-orifice 80-50 black
SPP 72121	40260-00	O-Ring for tip cap EPDM
SPP 72163	40260-V0	O-Ring for tip cap Viton

**TIP AND CAP**

PART NO.	REPLACES	DESCRIPTION
SPP 77147	40280-005	80-005 black
SPP 77148	40280-007	80-0067 pink
SPP 79460	40280-01	80-01 orange
SPP 79461	40280-015	80-015 green
SPP 79462	40280-02	80-02 yellow
SPP 79463	40280-025	80-025 purple
SPP 79464	40280-03	80-03 blue
SPP 79465	40280-04	80-04 red
SPP 79466	40280-05	80-05 brown
SPP 79467	40280-06	80-06 grey
SPP 79468	40280-08	80-08 white
SPP 79469	40280-10	80-10 blue
SPP 77149	40280-125	80-125 teal
SPP 79470	40280-15	80-15 lt green
SPP 79471	40280-20	80-20 tan
SPP 79472	40280-25	80-25 black
SPP 77150	40280-30	80-30 black

**SCREENS**

PART NO.	DESCRIPTION
72119	50 mesh
72120	100 mesh

**APPLICATION CHART SEE PAGE 3-6**

## Wilger Combo-Jet (Mid Range) Drift Reduction Nozzles

### COMBINED SPRAY/TIP/CAP/SCREEN NOZZLE SYSTEM 80 DEGREE MR SERIES

#### MR SERIES DRIFT REDUCTION NOZZLES

MR Series Drift Reduction Nozzles have been developed in response to the need for a spray nozzle which retains the ability to reduce driftable fine droplets in the same manner as the DR Series Drift Reduction Nozzles. BUT decreases the Volume Median Diameter of the droplets emitted. This will obviously improve the overall efficacy of the applied chemicals over a broader range of weed types. Bearing in mind that droplets of less than 150/200 microns in diameter are considered potential drift contributors; here is an example of differences in average volume median diameters for:

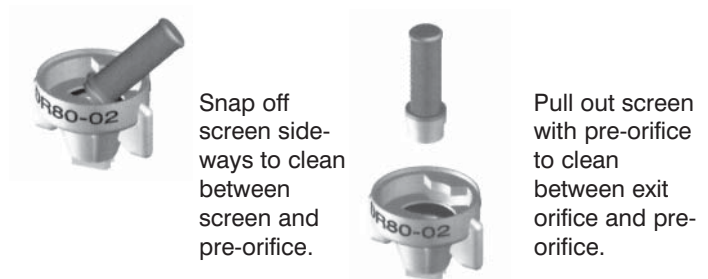
ER8002 (Extended Range) nozzles @ 40PSI - 224 microns

**MR8002 (Mid Range) nozzles @ 40 PSI -293 microns**

DR8002 (Drift Reduction) nozzles @ 40 PSI- 416 microns

As shown in the above comparison, the average droplet size is decreased by the MR Series nozzle over the DR Series nozzle, however the MR Series retains most of the same features as the DR series.

Operating Pressure 20-100 PSI



### COMBO-JET MR 80 DEGREE

PART NO.	REPLACES	DESCRIPTION	PRE-ORFICE PART NO.
78431	40290-005	MR Combo-Jet tip/cap Assy - MR80-005 Black	77151
78432	40290-007	MR Combo-Jet tip/cap Assy - MR80-0067 Pink	77152
78433	40290-01	MR Combo-Jet tip/cap Assy - MR 80-01 Orange	79429
78434	40290-015	MR Combo-Jet tip/cap Assy - MR80-015 Green	79430
78435	40290-02	MR Combo-Jet tip/cap Assy - MR80-02 Yellow	79431
78436	40290-025	MR Combo-Jet tip/cap Assy - MR80-025 Purple	79432
78437	40290-03	MR Combo-Jet tip/cap Assy - MR80-03 Blue	79433
78438	40290-04	MR Combo-Jet tip/cap Assy - MR80-04 Red	79434
78439	40290-05	MR Combo-Jet tip/cap Assy - MR80-05 Brown	79435
78440	40290-06	MR Combo-Jet tip/cap Assy - MR80-06 Grey	79436
78441	40290-08	MR Combo-Jet tip/cap Assy - MR80-08 White	79437
78442	40290-10	MR Combo-Jet tip/cap Assy - MR80-10 Lt Blue	79438
78443	40290-125	MR Combo-Jet tip/cap Assy - MR80-125 Teal	77153
78444	40290-15	MR Combo-Jet tip/cap Assy - MR80-15 Lt Green	79439
78445	40290-20	MR Combo-Jet tip/cap Assy - MR80-20 Tan	79440
78446	40290-25	MR Combo-Jet tip/cap Assy - MR80-25 Black	79441
78447	40290-30	MR Combo-Jet tip/cap Assy - MR80-30 Black	77154
78448	40290-40	MR Combo-Jet tip/cap Assy - MR80-40 Black	77155
78449	40290-50	MR Combo-Jet tip/cap Assy - MR80-50 Black	77156
72121	40260-00	O-Ring for tip cap EPDM	
77163	40260-V0	O-Ring for tip cap Viton	

In the compromise between efficacy and drift control, the MR nozzle leans more toward efficacy.

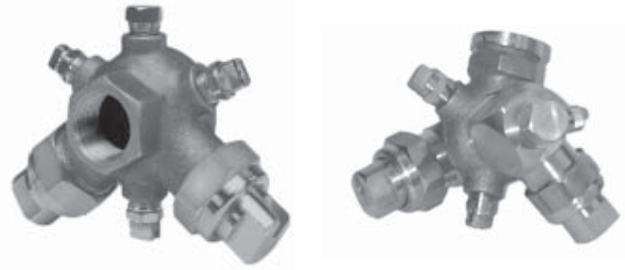
**APPLICATION CHART SEE PAGE 3-6**

**TeeJet Boomless Nozzle**

The 5880 and 5430 BoomJet nozzles combine two off-center tips and three TeeJet nozzles to produce an overall wide swath flat spray. Nozzle assembly provides good distribution for the wide pattern coverage obtained. Supplied with one additional 1/4" NPT pipe plug and one blank tip...for setting BoomJet to spray to one side only. Type 5880 also has a 1/4" NPT pressure gauge port. All models except those with OC40 tips come with a 50 mesh strainer on the bottom nozzle

Type 5430 - Top inlet connection (2.5 lbs.)

Type 5880 - Back inlet connection (2 lbs.)



Type 5880

Type 5430



W = Maximum effective coverage with nozzle mounted at 36" height.

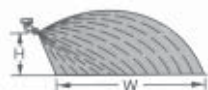
**PARTS BREAKDOWN SEE PAGE 3-44 AND 3-45**

PART NO.	REPLACES	OC TIPS (2)	VEEJET TOP NOZZLES (2)	VEEJET BOTTOM NOZZLE	LIQUID PRES. PSI	TOTAL CAP. GPM	GALLONS PER ACRE					
							"W" FEET	4 MPH	5 MPH	7.5 MPH	10 MPH	15 MPH
72510	5880-3/4-2TOC06	6733-OC06	H1/4VV-1506	H1/4VVL-9502	20	1.8	33.5	6.8	5.4	3.5	2.7	1.8
72514	5430-3/4-2TOC06	6733-OC06	H1/4VV-1506	H1/4VVL-9502	30	2.3	34	8.2	6.6	4.4	3.3	2.2
					40	2.6	34.5	9.3	7.5	5.0	3.7	2.5
72511	5880-3/4-2TOC10	6733-OC10	H1/4U-0508HE	H1/4VVL-11004	20	2.8	39.5	8.9	7.1	4.7	3.5	2.4
72515	5430-3/4-2TOC10	6733-OC10	H1/4U-0508HE	H1/4VVL-11004	30	3.5	40	10.7	8.6	5.7	4.3	2.9
					40	4.0	40.5	12.2	9.8	6.5	4.9	3.3
72512	5880-3/4-2TOC20	6733-OC20	H1/4U-0520HE	H1/4VVL-9506	20	6.1	47	16.0	12.8	8.5	6.4	4.3
72516	5430-3/4-2TOC20	6733-OC20	H1/4U-0520HE	H1/4VVL-9506	30	7.4	50	18.4	14.7	9.8	7.4	4.9
					40	8.6	52	20	16.4	10.9	8.2	5.5
72513	5880-3/4-2TOC40	6733-OC40	H1/4U-0540HE	H1/4U-9510	20	12.0	56	27	21	14.2	10.6	7.1
72517	5430-3/4-2TOC40	6733-OC40	H1/4U-0540HE	H1/4U-9510	30	14.7	60	30	24	16.2	12.1	8.1
					40	17.0	63	33	27	17.8	13.4	8.9



**SWIVEL SPRAY NOZZLES WITH OFF-CENTER FLAT SPRAY TIPS —LARGER CAPACITIES**

**Extra Wide Flat Spray Coverage**



W = Maximum effective coverage with nozzle mounted at 36" height



**Type 4629-3/4-TOC Single Swivel** with 3/4" NPT (F) pipe connection. Brass.

**Type 4418-3/4-2TOC Double Swivel** with 3/4" NPT (F) pipe connection. Brass.

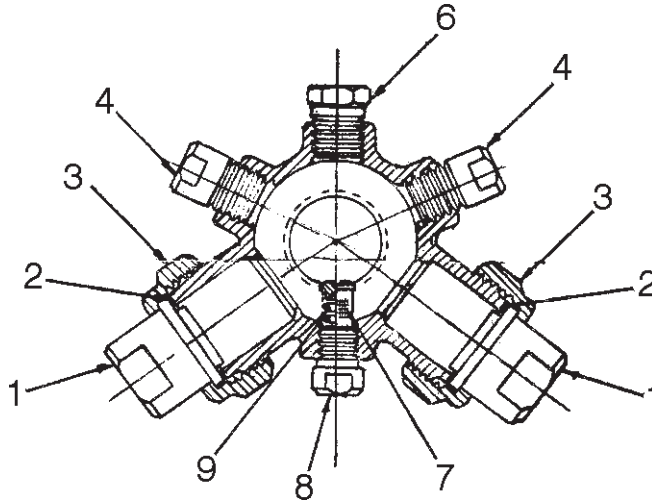
PART NO.	REPLACES
77169	4418-3/4-2TOC10
77170	4418-3/4-2TOC20
77171	4418-3/4-2TOC40
77172	4418-3/4-2TOC80
77173	4418-3/4-2TOC150
77174	4418-3/4-2TOC300

Part No.	Type	PSI	Capacity 1 Nozzle in GPM	"W" in feet	"H" = 36"		
					GPA		
					mph	10 mph	15 mph
72753	4629-3/4-TOC10	30	0.87	18	4.8	2.4	1.6
		40	1.00	18.5	5.4	2.7	1.8
		60	1.22	18.5	6.5	3.3	2.2
77164	4629-3/4-TOC20	30	1.73	23.5	7.3	3.6	2.4
		40	2.00	24.5	8.1	4.0	2.7
		60	2.45	24.5	9.9	5.0	3.3
77165	4629-3/4-TOC40	30	3.46	26	13.2	6.6	4.4
		40	4.00	27	14.7	7.3	4.9
		60	4.90	27	18.0	9.0	6.0
77166	4629-3/4-TOC80	30	6.93	29	24	11.8	7.9
		40	8.00	30	26	13.2	8.8
		60	9.80	30	32	16.2	10.8
77167	4629-3/4-TOC150	30	13.0	30.5	42	21	14.1
		40	15.0	31.5	47	24	15.7
		60	18.4	31.5	58	29	19.3
77168	4629-3/4-TOC300	30	26.0	32	80	40	27
		40	30.0	33	90	45	30
		60	36.7	33.5	108	54	36

For double swivels the tabulated GPM capacities are twice those shown for single swivels.

## TeeJet Boomless Nozzle Parts

### TYPE 5880



REF	PART NO.	REPLACES	DESCRIPTION
1	72533	6733-0C02	Small tip, cap, flange 3/4" (cap# 72210) tip only 72600
1	72518	6733-0C06	Small tip, cap, flange 3/4" (cap# 72210)
1	72534	6733-0C08	Small tip, cap, flange 3/4" (cap# 72210)
1	72519	0C10	Large single tip 3/4" (cap# 72504)
1	72535	6733-0C12	Small tip, cap, flange 3/4" (cap# 72210)
1	72536	6733-0C16	Small tip, cap, flange 3/4" (cap# 72110)
1	72520	0C20	Large single tip 3/4" (cap# 72504)
1	72521	0C40	Large single tip 3/4" (cap# 72504)
1	72631	0C80	Large single tip 3/4" (cap# 72504)
2	72505	CP4784-CU	Gasket for 3/4"
3	72504	CP3819	Cap for 3/4"
4	72522	H1/4VV-1506	Tip 1/4" male thread with inside female thread to take screen
4	72523	H 1/4U-0508HE	Top nozzle for BoomJet 1/4" male thread H1/4U
4	72524	H1/4U-0520HE	Top nozzle for BoomJet 1/4" male thread
4	72525	H1/4U-0540HE	Top nozzle for BoomJet 1/4" male thread
4	78132	H 1/4U-4030	Nozzle 1/4" Male Thread
6	72556	CP2812	1/4" brass plug
7	72557	CP3820-50-SS	Screen only
8	72526	H1/4VVL-9502	Bottom nozzle 1/4" male thread with inside female thread to take screen
8	72527	H1/4VVL-11004	Bottom nozzle 1/4" male thread with inside female thread to take screen
8	72528	H1/4VVL-9506	Bottom nozzle 1/4" male thread with inside female thread to take screen
9	72558	CP3791	Strainer body male thread
	72502	CP3818	Brass adapter 3/4" male pipe x 3/4" TeeJet to fit (cap #72504)
	72503	CP3817	Brass adapter 3/4" female pipe x 3/4" TeeJet to fit (cap # 72504)



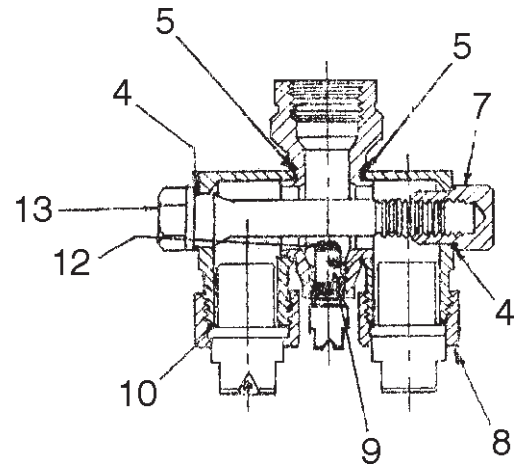
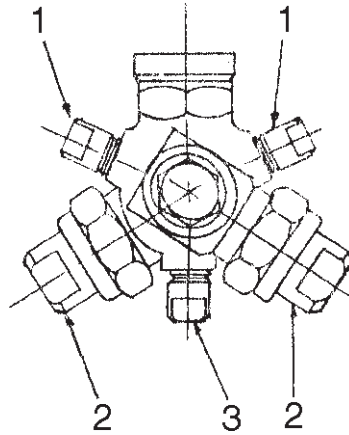
**SPP 72502**



**SPP 72503**

**TeeJet Boomless Nozzle Parts**

**TYPE 5430**



REF	PART NO.	REPLACES	DESCRIPTION
1	72522	H <sup>1</sup> / <sub>4</sub> VV-1506	Top nozzle 1/4" male thread with inside female thread to take screen
1	72523	H <sup>1</sup> / <sub>4</sub> U-0508HE	Top nozzle for BoomJet 1/4" male thread
1	72524	H <sup>1</sup> / <sub>4</sub> U-0520HE	Top nozzle for BoomJet 1/4" male thread
1	72525	H <sup>1</sup> / <sub>4</sub> U-0540HE	Top nozzle for BoomJet 1/4" male thread
1	78132	H <sup>1</sup> / <sub>4</sub> U-4030HE	Top nozzle for BoomJet 1/4" male thread
2	72533	6733-0C02	Small tip, cap, flange 3/4" (cap# 72210) tip only 72600
2	72518	6733-0C06	Small tip, cap, flange 3/4" (cap# 72210)
2	72534	6733-0C08	Small tip, cap, flange 3/4" (cap# 72210)
2	72519	0C10	Large Single tip 3/4" (cap# 72504)
2	72535	6733-0C12	Small tip, cap, flange 3/4" (cap# 72210)
2	72536	6733-0C16	Small tip, cap, flange 3/4" (cap# 72210)
2	72520	0C20	Large single tip 3/4" (cap# 72504)
2	72521	0C40	Large single tip 3/4" (cap# 72504)
2	72631	0C80	Large single tip 3/4" (cap# 72504)
3	72526	H <sup>1</sup> / <sub>4</sub> VVL-9502	Bottom nozzle 1/4" male thread with inside female thread to take screen
3	72527	H <sup>1</sup> / <sub>4</sub> VVL-11004	Bottom nozzle 1/4" male thread with inside female thread to take screen
3	72528	H <sup>1</sup> / <sub>4</sub> VVL-9506	Bottom nozzle 1/4" male thread with inside female thread to take screen
4	72594	CP4246-CU	Copper gasket
5	72595	CP4245-CU	Copper gasket
7	72596	CP4244	Cap nut
8	72504	CP3819	Cap for 3/4"
9	72557	CP3820-50-SS	Screen only
10	72505	CP4784-CU	Gasket for 3/4"
12	72558	CPP3791	Strainer body male thread
13	72597	CP4420	Screw
	72502	CP3818	Brass adapter 3/4" male pipe x 3/4" TeeJet to fit cap#72504
	72503	CP3817	Brass adapter 3/4" female pipe x 3/4" TeeJet to fit cap #72504



**SPP 72502**



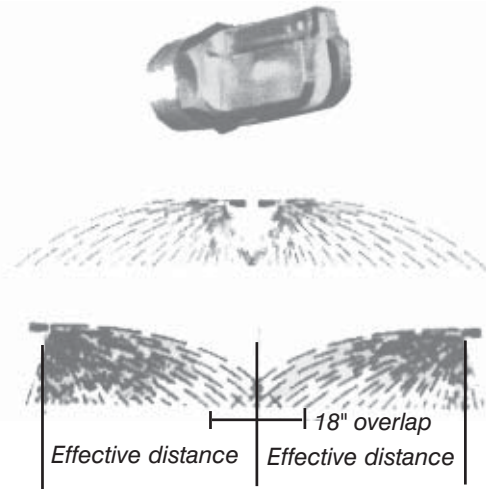
**SPP 72503**

## Boom Buster Spray Nozzles

### RIGHT-OF-WAY SPRAYING

While all Boom Buster nozzles can be used for any type of spraying, the sizes and combinations listed below are ideal for right-of-way spraying. They can be used with tank-mix systems, as well as with computer controlled direct injection systems. Each nozzle is designed to spray a specific pattern width, yet all nozzles listed in the combinations below will apply the same amount of liquid per acre, at the same speed, and at the same pressure. Unlike cluster nozzles which require several straight stream nozzles to spray a given distance, each Boom Buster nozzle sprays the entire distance of the pattern as listed in the application chart.

Spray nozzles that work without booms. Finally — thanks to a new and patented nozzle technology, all types of spraying applications can be completed fast and easy without the need for booms, and — there are no small fine mesh strainers to stop up the Boom Buster nozzles. Add "R" to specify for roadside work. (Example: 77177R)



**BOOM BUSTER SOLID STAINLESS STEEL**

Part No.	Replaces	Nozzle Angle	Liquid PSI	Nozzle GPM	Eff. Dist.	4 MPH	5 MPH	7 MPH	10 MPH	12 MPH
77177	500 BB1203 (1/4" thread)	Down	30	1.7	3	70	56	40	28	23
		Down	40	2.0	3	83	66	47	33	27
		Down	50	2.2	3	91	73	52	36	30
77178	500 BB1205 (1/4" thread)	Down	30	1.7	5	42	34	24	17	14
		Down	40	2.0	5	50	40	28	20	17
		Down	50	2.0	5	54	44	31	22	18
77179	500 BB125 (1/4" thread)	Level	20	1.5	14	13.3	10.6	7.6		
		Level	30	1.7	15.5	13	11	7.8		
		Level	40	2.0	15.5	16	13	9.1		
77180	500 BB140 (3/8" thread)	Level	30	2.0	16.5	15	12	8.5	6	5
		Level	40	2.4	16.5	18	14	10	7	6
		Level	50	2.7	16.5	20	16	12	8	6.8
77181	500 BB1806 (3/8" thread)	Down	30	3.6	6	74	59	42	30	25
		Down	40	4.3	6	89	71	51	35	30
		Down	50	4.8	6	100	79	57	40	33
77182	500 BB18010 (3/8" thread)	Down	30	3.6	10	45	36	25	18	15
		Down	40	4.3	10	53	43	30	21	18
		Down	50	4.8	10	59	48	34	24	20
77183	500 BB187 (3/8" thread)	Level	30	3.6	18.5	24	19	14	9.6	8
		Level	40	4.3	18.5	29	23	16	12	9.6
		Level	50	4.8	18.5	32	26	18	13	11
77184	500 BB265 (1/2" thread)	Level	30	6.8	19.5	43	35	25	17	14
		Level	40	8.0	19.5	51	41	29	20	17
		Level	50	8.8	19.5	56	45	32	22	19
77185	500 BB375 (3/4" thread)	Level	30	14.4	21.5	83	66	47	33	28
		Level	40	16.7	21.5	96	77	55	38	32
		Level	50	18.8	21.5	108	87	62	43	36
77186	500 BB437 (3/4" thread)	Up	30	18.5	29.5	78	62	44	31	26
		Up	40	21.5	29.5	90	72	52	36	30
		Up	50	24.2	29.5	102	81	58	41	34
77187	500 BB500 (1" thread)	Level	30	29	20	179	142	102	72	60
		Level	40	33	20	204	164	116	82	68
		Level	50	37	20	229	182	130	91	76
77188	500 BB504 (1" thread)	Up	30	29	41	90	72	51	36	30
		Up	40	33	41	102	82	58	41	34
		Up	50	37	41	114	91	65	46	38

### NOZZLE INSTALLATION

For single nozzle installation, the supply line must be one size larger than the nozzle thread size. Example, if the nozzle has a 1/2" thread, the supply line must be 3/4".

Boom Buster nozzles are tested at a height of 48" but can be operated lower or higher than 48".

Some nozzles must be installed with the nozzle angled up, some angled down, and some level with the ground. This is necessary and important for proper operation of the nozzle. See chart for the nozzle in use.

Nozzles mounted back to back should be close enough to insure proper overlap between the nozzles.

Use street elbows for quick and easy nozzle adjustment.

### OPERATION

In multiple pass spraying, the end of the pattern should overlap approximately 18".

Use effective distance in feet for all calculations. See effective distance in feet in chart.

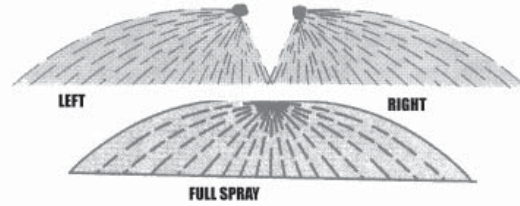
A coarse mesh inline strainer may be necessary if tank becomes contaminated with large particles. Small mesh nozzle strainers are not necessary due to the large orifice opening in these nozzles.

With these nozzles high and gusty wind can cause some pattern shifting. Use good judgement when windy.

**Boom "I" Nator Boomless Nozzles**

**FEATURES**

- Machined from Stainless Steel
- Superior fluid pattern and distribution
- Heavy droplet pattern for minimal drift
- Mnpt threads
- All nozzles factory tested



BOOM "I" NATOR "REGULAR SPRAY" ON LEFT OR RIGHT SIDES									
ORDER NO.	LIQUID PSI	NOZZLE GPM	EFF. DIST.	4 MPH	5 MPH	7 MPH	10 MPH	12 MPH	
500 1253L 500 1253R	20 30 40	1.5 1.7 2.0	3 3 3	62 70 83	50 56 66	35 40 47	25 28 33	21 23 28	
500 1404L 500 1404R	20 30 40	1.7 2.0 2.5	4 4 4	53 62 77	42 50 62	30 35 44	21 25 31	18 21 26	
500 1255L 500 1255R	20 30 40	1.5 1.7 2.0	5 5 5	37 42 50	30 34 40	21 24 28	15 17 20	12 14 17	
500 1406L 500 1406R	20 30 40	1.7 2.0 2.5	6 6 6	35 41 52	28 33 41	20 24 30	14 17 21	12 14 7	
500 1876L 500 1876R	20 30 40	3.0 6.5 4.3	6 6 6	62 72 89	50 58 71	35 41 51	25 29 35	21 24 30	
500 1871L 500 1871R	20 30 40	3.0 3.6 4.3	10 10 10	37 43 53	30 35 43	21 25 30	15 17 21	13 15 18	
500 2651L 500 2651R	20 30 40	6.7 7.5 8.5	10 10 10	83 93 105	66 74 84	47 53 60	33 37 42	28 31 35	
500 3121L 500 3121R	20 30 40	7.2 9.0 10.6	10 10 10	89 111 131	71 89 105	61 64 75	36 45 52	30 37 44	
500 1160L 500 1160R	20 30 40	1.0 1.2 1.4	16 16 16	8 9 11	6 7.5 8.5	4.5 5.3 6			
500 1250L 500 1250R	20 30 40	1.5 1.7 2.0	16 16 16	13 13 16	9 11 12	7 8 9			
500 1400L 500 1400R	20 30 40	1.7 2.0 2.5	17 17 17	12 15 18	10 12 15	7 8 10	5 6 7	4 4.5 6	
500 1870L 500 1870R	20 30 40	3.0 3.6 4.3	18 18 18	21 24 30	17 19 24	12 14 17	8 10 12	7 8 10	
500 2650L 500 2650R	20 30 40	6.7 7.5 8.5	20 20 20	41 46 52	33 37 42	24 26 30	16 18 21	14 15 17	
500 3120L 500 3120R	20 30 40	7.2 9.0 10.6	21 21 21	42 53 62	34 42 50	24 30 36	17 21 25	14 17 21	
500 3750L 500 3750R	20 30 40	12.0 15.0 16.3	23 23 23	64 81 88	51 64 70	37 46 50	26 32 35	22 27 29	
500 4370L 500 4370R	20 30 40	13.8 15.6 18.0	25 25 25	68 77 89	54 62 71	39 44 51	27 31 35	23 26 30	

For roadside nozzles use suffix RS. Nozzles will have no kickback and are right hand only.

**BOOM "I" NATOR BENEFITS**

Superior spray pattern with even distribution over the entire pattern. Heavy droplet pattern for minimal drift and better crop penetration. Nozzles can easily spray around obstacles and over uneven terrain.

BOOM "I" NATOR "FULL SPRAY" ON BOTH SIDES									
Order No.	Liquid PSI	Nozzle GPM	Eff. Dist.	4 MPH	5 MPH	7 MPH	10 MPH	12 MPH	
500 1250FS	20 30 40	1.5 1.7 2.0	16 16 16	12 13 16	8 11 12	6.5 8 9			
500 1400FS	20 30 40	1.7 2.0 2.5	17 17 17	12 15 18	10 12 15	7 8 10	5 6 7	4 4.5	
500 1400FM	20 30 40	1.7 2.0 2.5	22 22 22	10 11 14	8 9 11	5.5 6 8	4 4.5 5.5	3 3.5 4.5	
500 1870FS	20 30 40	3.0 3.5 4.3	18 18 18	21 24 30	17 19 24	12 14 17	8 10 12	7 8 10	
500 1870FM	20 30 40	3.0 3.5 4.3	23 23 23	16 19 23	13 15 19	9 11 13	6.5 7.5 9	5 6 7.5	
500 1870FL	20 30 40	3.0 3.5 4.3	30 30 30	12 14 18	12 12 14	7 8 10	5 5.5 7	4 4.5 6	
500 2650FS	20 30 40	6.7 8.0 10.0	16 16 16	52 62 77	41 50 62	30 35 44	21 25 31	17 21 26	
500 2650FM	20 30 40	6.7 8.0 10.0	23 23 23	36 43 54	29 34 43	20.5 24.5 31	14 17 21.5	12 14 18	
500 2650FL	20 30 40	6.7 8.0 10.0	38 38 32.5	22 26 26	17.5 21 18.5	12.5 15 13	9 10.5 11	7 9	
500 3120FS	20 30 40	11.3 13 15	23 23 23	61 70 81	49 56 65	37 43 50	24 28 32	20 23 27	
500 3120FM	20 30 40	11.3 13 15	27 27 27	52 60 69	41 48 55	30 34 39	21 24 28	17 20 23	
500 3120FL	20 30 40	11.3 13 15.0	40 40 40	35 40 46.5	28 32 37	20 23 26.5	14 16 18.5	11.5 13.5 15.5	
500 3750FM	20 30 40	13.8 16.4 18.0	30 30 30	57 68 74	46 54 59	33 39 42	23 27 30	19 23 25	
500 4370FL	20 30 40	13.8 16.4 18.0	40 40 40	43 51 56	34 41 45	24 29 32	17 20 23	14 17 18	
500 4370FL	20 30 40	16.3 20.0 24.0	44 44 44	46 56 68	37 45 54	26 32 39	18 23 27	15 19 23	

**BOOM "I" NATOR APPLICATIONS**

- De-icing on roads, bridges, sidewalks, runways and parking lots
- Spraying fence lines and right-of-ways
- Dust suppression
- Lawn, turf and nursery applications
- Grass fire fighting
- Orchard, vineyard and vegetable spraying
- Ponds, lakes, canals for aquatic pest and weed control
- Insect control

**NOZZLE INSTALLATION TIPS AND OPERATION**

All **Short Pattern Spray Nozzles** were tested at a height of 18 inches. (Recommended operation height is between 12 & 26 inches).

All **Regular Pattern Spray Nozzles** were tested at a height of 36 inches. (Recommended operating height is between 18 & 48 inches)

These nozzles are designed for left-hand or right-hand mounting and provide a wide spray pattern with approximately 15 degree of kickback.

When using left and right hand nozzles together, adjust nozzles to allow for 1-2 inches of kickback overlap between the nozzles to prevent streaking in spray coverage. Nozzles can be rotated to adjust distance of spray pattern outward or amount of kickback under the nozzle.

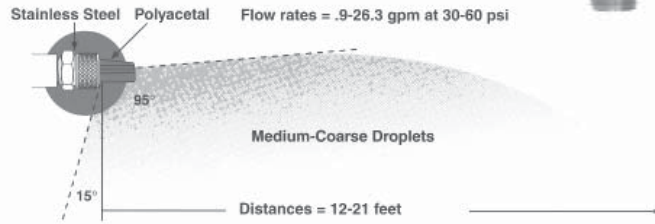
All **Full Pattern Spray Nozzles** were tested at a height of 36 inches. (Recommended operating height is between 18 & 48 inches). These nozzles are designed to provide a full left-hand to right-hand spray pattern from a single centrally mounted nozzle. Nozzles can be used at various heights within the recommended range. However, this will affect the spray pattern width and the GPA applied. When multi-pass spraying, be sure to overlap the ends of spray patterns 12-16 inches to ensure even coverage.



**Boom X Tender Boomless Nozzles**

The X Tender redefines boomless spray technology by focusing on uniformity of spray pattern and accuracy of product delivered to the target. The most important innovation is reducing the likelihood of off-target trespass, which has been associated with boomless spray tips in some applications. The X Tender series has the ability to reduce fine droplets and match the performance characteristic of standard spray tips.

The Hypro X Tender combines the characteristics of off-center spray tips with the uniformity of pattern of flat fan spray tips. The large droplet produced by the patent-pending, stepped-slot design offers users a simple and consistent spray tip.



PART NO.	REPLACES	THREAD SIZE	COLOR	SWATH WIDTH IN FEET @ 40 PSI	PSI
75777	PK-XT010	1/4"	Green	12	30-60
75778	PK-XT020	1/4"	Blue	17	30-60
75779	PK-XT024	1/4"	Yellow	18	30-60
75780	PK-XT043	3/8"	Orange	20	30-60
75781	PK-XT080	1/2"	Red	21	30-60
74946	PK-XT167	3/4"	White	18	30-60
74947	PK-XT215	3/4"	Grey	20	30-60

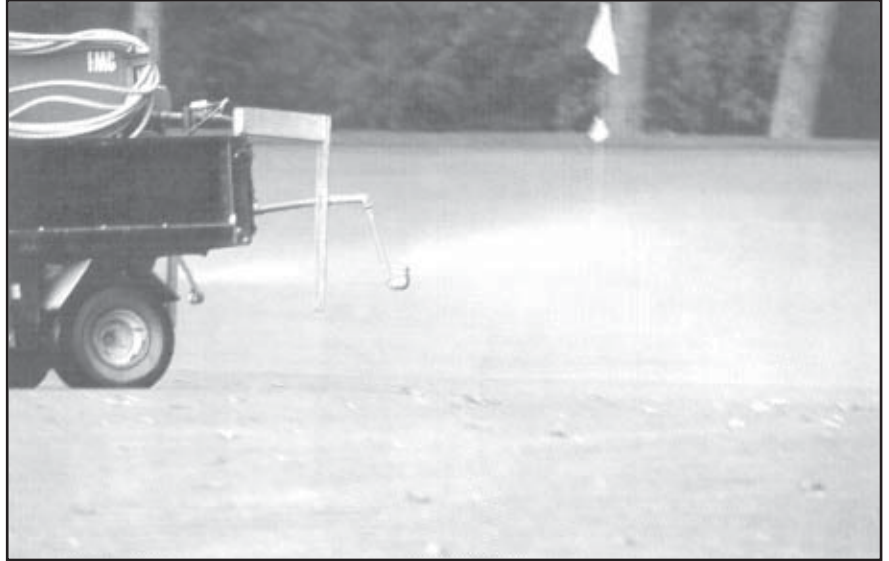
Broadcast & Turf Applications				Application Rate (GPA) Miles Per Hour											Gal/1000 ft squared				Swath Width (feet) 40 PSI
Thread	XT Model	PSI	GPM	4	5	6	7	8	10	12	14	16	18	20	2	3	4	5	
1/4" MNPT	XT010	30	0.9	8.9	7.1	6.0	5.1	4.5	3.6	3.0	2.6	2.2	2.0	1.8	0.41	0.27	0.20	0.16	12
		40	1.0	10.3	8.3	6.9	5.9	5.2	4.1	3.4	2.9	2.6	2.3	2.1	0.47	0.31	0.24	0.19	
		50	1.1	11.5	9.2	7.7	6.6	5.8	4.6	3.8	3.3	2.9	2.6	2.3	0.53	0.35	0.26	0.21	
		60	1.2	12.6	10.1	8.4	7.2	6.3	5.1	4.2	3.6	3.2	2.8	2.5	0.58	0.39	0.29	0.23	
1/4" MNPT	XT020	30	1.7	12.6	10.1	8.4	7.2	6.3	5.0	4.2	3.6	3.2	2.8	2.5	0.58	0.38	0.29	0.23	17
		40	2.0	14.6	11.6	9.7	8.3	7.3	5.8	4.9	4.2	3.6	3.2	2.9	0.67	0.44	0.33	0.27	
		50	2.2	16.3	13.0	10.9	9.3	8.1	6.5	5.4	4.7	4.1	3.6	3.3	0.75	0.50	0.37	0.30	
		60	2.4	17.8	14.3	11.9	10.2	8.9	7.1	5.9	5.1	4.5	4.0	3.6	0.82	0.54	0.41	0.33	
1/4" MNPT	XT024	30	2.1	14.3	11.4	9.5	8.2	7.1	5.7	4.8	4.1	3.6	3.2	2.9	0.65	0.44	0.33	0.26	18
		40	2.4	16.5	13.2	11.0	9.4	8.3	6.6	5.5	4.7	4.1	3.7	3.3	0.76	0.50	0.38	0.30	
		50	2.7	18	14.8	12.3	10.5	9.2	7.4	6.1	5.3	4.6	4.1	3.7	0.84	0.56	0.42	0.34	
		60	2.9	20	16.2	13.5	11.5	10.1	8.1	6.7	5.8	5.1	4.5	4.0	1.0	0.65	0.49	0.39	
3/8" MNPT	XT043	30	3.7	23	18.4	15.4	13.2	11.5	9.2	7.7	6.6	5.8	5.1	4.6	1.1	0.70	0.53	0.42	20
		40	4.3	27	21.3	17.7	15.2	13.3	10.6	8.9	7.6	6.7	5.9	5.3	1.2	0.81	0.61	0.49	
		50	4.8	30	23.8	19.8	17.0	14.9	11.9	9.9	8.5	7.4	6.6	5.9	1.4	0.91	0.68	0.54	
		60	5.3	33	26.1	21.7	18.6	16.3	13.0	10.9	9.3	8.1	7.2	6.5	1.5	1.0	0.75	0.60	
1/2" MNPT	XT080	30	6.9	41	33	27	23	20	16.3	13.6	11.7	10.2	9.1	8.2	1.9	1.2	0.9	0.75	21
		40	8.0	47	38	31	27	24	19	15.7	13.5	11.8	10.5	9.4	2.2	1.4	1.1	0.86	
		50	8.9	53	42	35	30	26	21	17.6	15.1	13.2	11.7	10.5	2.4	1.6	1.2	1.0	
		60	9.8	58	46	38	33	29	23	19	16.5	14.4	12.8	11.5	2.6	1.8	1.3	1.1	
3/4" MNPT	XT167	30	14.5	99	80	66	57	50	40	33	28	25	22.1	19.9	4.6	3.0	2.3	1.8	18
		40	16.7	115	92	77	66	57	46	38	33	29	25.5	23.0	5.3	3.5	2.6	2.1	
		50	18.7	128	103	86	73	64	51	43	37	32	28.5	25.7	5.9	3.9	2.9	2.4	
		60	20.5	141	112	94	80	70	56	47	40	35	31.2	28.1	6.4	4.3	3.2	2.6	
3/4" MNPT	XT215	30	18.6	115	92	77	66	58	46	38	33	28.8	25.6	23.0	5.3	3.5	2.6	2.1	20
		40	21.5	133	106	89	76	67	53	44	38	33	30	26.6	6.1	4.1	3.0	2.4	
		50	24.0	149	119	99	85	74	59	50	42	37	33	30	6.8	4.5	3.4	2.7	
		60	26.3	163	130	109	93	81	65	54	47	41	36	33	7.5	5.0	3.7	3.0	

Note: All application rates are based on swath widths listed.

**FieldJet Boomless Nozzles**

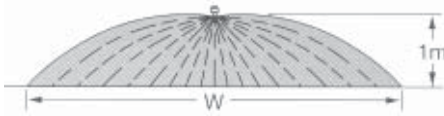


**Type 1/4 KLC and Type 3/4 KLC**  
1/4" NPT male and 3/4" NPT male pipe connections



The KLC FieldJet nozzle is typically used to spray areas not accessible with a boom sprayer. It's one piece nozzle design projects spray to both sides to form a wide swath flat spray. The round orifice minimizes clogging. Uniformity across the swath is not as good as with a properly operated boom sprayer. Available in brass, or stainless steel.

\*Uniformity can be optimized by double over-lapping spray swaths on successive sprayer passes. Remember, this also doubles the application volume.



**FieldJet®**





QJ4676-45-1/4-NYR  
Part No. 73095



QJ4676-90-1/4-NYR  
Part No. 73096

**OPTIONAL QUICK TEEJET ADAPTER CAPS**

Part No. Brass	Part No. Stainless Steel			PSI	Total Capacity GPM	"W" in feet	GPA				Gallons Per 1000 Sq. Ft.			
							3 mph	4 mph	5 mph	8 mph	3 mph	4 mph	5 mph	8 mph
75156	75162	<b>1/4-KLC-5</b>	1/4"	20	0.71	17	6.9	5.2	4.1	2.6	.16	.12	.09	.06
				30	0.87	18	8.0	6.0	4.8	3.0	.18	.14	.11	.07
				40	1.00	21	7.9	5.9	4.7	2.9	.18	.13	.11	.07
75157	75163	<b>1/4-KLC-9</b>	1/4"	20	1.27	18	11.6	8.7	7.0	4.4	.27	.20	.16	.10
				30	1.56	19	13.5	10.2	8.1	5.1	.31	.23	.19	.12
				40	1.80	21	14.1	10.6	8.5	5.3	.32	.24	.19	.12
75158	75164	<b>1/4-KLC-18</b>	1/4"	20	2.55	20	21	15.8	12.6	7.9	.48	.36	.29	.18
				30	3.12	21	25	18.4	14.7	9.2	.56	.42	.34	.21
				40	3.60	22	27	20	16.2	10.1	.62	.46	.37	.23
75159	72752	<b>1/4-KLC-36</b>	1/4"	20	5.09	22	38	29	23	14.3	.87	.66	.52	.33
				30	6.24	24	43	32	26	16.1	.98	.74	.59	.37
				40	7.20	26	46	34	27	17.1	1.0	.78	.63	.39
75160	75165	<b>3/4-KLC-50</b>	3/4"	20	7.07	23	51	38	30	19.0	1.2	.87	.70	.44
				30	8.66	26	55	41	33	21	1.3	.94	.75	.47
				40	10.0	28	59	44	35	22	1.3	1.0	.81	.51
72540	75166	<b>3/4-KLC-72</b>	3/4"	20	10.2	25	67	50	40	25	1.5	1.2	.92	.58
				30	12.5	29	71	53	43	27	1.6	1.2	.98	.61
				40	14.4	31	77	57	46	29	1.8	1.3	1.1	.66
75161	75167	<b>3/4-KLC-108</b>	3/4"	20	15.3	28	90	68	54	34	2.1	1.5	1.2	.77
				30	18.7	33	94	70	56	35	2.1	1.6	1.3	.80
				40	21.6	36	99	74	59	37	2.3	1.7	1.4	.85

**Quick TeeJet 3 - Orifice Nozzles**

**COMMON APPLICATION**

- Spraying of liquid fertilizer



CP18999-EPR Seat Gasket CP4916\* Orifice Plate QJ19840 Quick TeeJet Nozzle

\*determines capacity  
72547 - Seat gasket  
73086 - Viton seat gasket

**FEATURES**

- Quick TeeJet connection
- Uniformly distributed streams of liquid fertilizer
- Recommended operating pressure 15-40 PSI (1-3 bar)
- Coarse droplets reduce drift
- Semicircle spray pattern
- Variation of flow rate by simply changing the orifice plate
- Orifice size [see next page](#)



Cap Part No.	Replaces	QJ19840-1	PSI	GPM	 (inches)	 GPA 20°										
						3 mph	3.5 mph	4 mph	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph	7.5 mph	8 mph
72351	QJ19840-1-55	4916-55	14.5	0.26	29.5	26	22	19.3	17.2	15.4	14.0	12.9	11.9	11.0	10.3	9.7
			22	0.32	29.5	32	27	24	21	19.0	17.3	15.8	14.6	13.6	12.7	11.9
			29	0.36	29.5	36	31	27	24	21	19.4	17.8	16.4	15.3	14.3	13.4
			36	0.40	29.5	40	34	30	26	24	22	19.8	18.3	17.0	15.8	14.9
			43.5	0.45	29.5	45	38	33	30	27	24	22	21	19.1	17.8	16.7
72352	QJ19840-1-78	4916-78	14.5	0.42	29.5	42	36	31	28	25	23	21	19.2	17.8	16.6	15.6
			22	0.50	29.5	50	42	37	33	30	27	25	23	21	19.8	18.6
			29	0.58	29.5	57	49	43	38	34	31	29	27	25	23	22
			36	0.66	29.5	65	56	49	44	39	36	33	30	28	26	25
			43.5	0.73	29.5	72	62	54	48	43	39	36	33	31	29	27
73120	QJ19840-1-115	4916-115	14.5	0.66	29.5	65	56	49	44	39	36	33	30	28	26	25
			22	0.77	29.5	76	65	57	51	46	42	38	35	33	30	29
			29	0.92	29.5	91	78	68	61	55	50	46	42	39	36	34
			36	1.05	29.5	104	89	78	69	62	57	52	48	45	42	39
			43.5	1.14	29.5	113	97	85	75	68	62	56	52	48	45	42
Cap Part No.	Cap Replaces	QJ19840-2	PSI	GPM	 (inches)	 GPA 20°										
						3 mph	3.5 mph	4 mph	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph	7.5 mph	8 mph
73124	QJ19840-2-70	4916-70	14.5	0.40	24	40	34	30	26	24	22	19.8	18.3	17.0	15.8	14.9
			22	0.49	24	49	42	36	32	29	26	24	22	21	19.4	18.2
			29	0.56	24	55	48	42	37	33	30	28	26	24	22	21
			36	0.62	24	61	53	46	41	37	33	31	28	26	25	23
			43.5	0.69	24	68	59	51	46	41	37	34	32	29	27	26
73125	QJ19840-2-81	4916-81	14.5	0.50	24	50	42	37	33	30	27	25	23	21	19.8	18.6
			22	0.62	24	61	53	46	41	37	33	31	28	26	25	23
			29	0.71	24	70	60	53	47	42	38	35	32	30	28	26
			36	0.80	24	79	68	59	53	48	43	40	37	34	32	30
			43.5	0.87	24	86	74	65	57	52	47	43	40	37	34	32
Cap Part No.	Cap Replaces	QJ19840-3	PSI	GPM	 (inches)	 GPA 20°										
						3 mph	3.5 mph	4 mph	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph	7.5 mph	8 mph
73126	QJ19840-3-91	4916-91	14.5	0.65	24	64	55	48	43	39	35	32	30	28	26	24
			22	0.80	24	79	68	59	53	48	43	40	37	34	32	30
			29	0.92	24	91	78	68	61	55	50	46	42	39	36	34
			36	1.03	24	102	87	76	68	61	56	51	47	44	41	38
			43.5	1.13	24	112	96	84	75	67	61	56	52	48	45	42
73127	QJ19840-3-110	4916-110	14.5	0.95	24	94	81	71	63	56	51	47	43	40	38	35
			22	1.17	24	116	99	87	77	69	63	58	53	50	46	43
			29	1.34	24	133	114	99	88	80	72	66	61	57	53	50
			36	1.50	24	149	127	111	99	89	81	74	69	64	59	56
			43.5	1.64	24	162	139	122	108	97	89	81	75	70	65	61
73128	QJ19840-3-128	4916-128	14.5	1.25	24	124	106	93	83	74	68	62	57	53	50	46
			22	1.54	24	152	131	114	102	91	83	76	70	65	61	57
			29	1.77	24	175	150	131	117	105	96	88	81	75	70	66
			36	1.98	24	196	168	147	131	118	107	98	90	84	78	74
			43.5	2.15	24	213	182	160	142	128	116	106	98	91	85	80

**Tee Jet Flow Regulators**

Flow Regulators are usually mounted behind cultivator shanks for the subsurface application of liquid fertilizers and soil fumigants. They are also used for above ground streaming applications.

**TYPICAL ASSEMBLY**



CP1322  
1/4TT Body



5053  
Strainer



CP4916  
Orifice Plate



CP4928  
Adapter 1/8" NPT (F) Outlet



CP1325  
Cap



**Note: Always Insert Orifice Plate with side marked with number facing the outlet.**  
Material: Stainless Steel

To determine the orifice plates you need, use the following equations:

$$\text{GPM (per nozzle)} = \frac{\text{GPA} \times \text{mph} \times \text{W}}{5,940}$$

$$\text{GPA} = \frac{5,940 \times \text{GPM (per nozzle)}}{\text{mph} \times \text{W}}$$

W = Nozzle spacing (in inches) for broadcast spraying  
= Spray width (in inches) for single nozzle, band spraying or boomless spraying.  
= Row spacing (in inches) divided by the number of nozzles per row for directed spraying.

**FOR PARTS LISTED ABOVE SEE SECTION 4**

Part No.	Image	GPM			
		5 psi	10 psi	20 psi	30 psi
74999	CP4916-008	0.003	0.004	0.006	0.007
74507	CP4916-10	0.005	0.006	0.009	0.011
74508	CP4916-12	0.007	0.009	0.013	0.016
74509	CP4916-14	0.009	0.013	0.018	0.022
74510	CP4916-15	0.010	0.014	0.020	0.025
74511	CP4916-16	0.012	0.016	0.023	0.028
74280	CP4916-18	0.015	0.021	0.030	0.036
74512	CP4916-20	0.018	0.026	0.037	0.045
74513	CP4916-22	0.022	0.031	0.043	0.053
74514	CP4916-24	0.026	0.037	0.052	0.064
74515	CP4916-25	0.028	0.040	0.056	0.068
74516	CP4916-26	0.030	0.043	0.060	0.074
74517	CP4916-27	0.032	0.045	0.064	0.078
74518	CP4916-28	0.035	0.049	0.069	0.085
74519	CP4916-29	0.038	0.054	0.076	0.093
74523	CP4916-30	0.040	0.057	0.081	0.099
74524	CP4916-31	0.043	0.061	0.087	0.106
74438	CP4916-32	0.048	0.067	0.095	0.116
74525	CP4916-34	0.052	0.074	0.104	0.127
74526	CP4916-35	0.056	0.079	0.111	0.136
74458	CP4916-37	0.061	0.086	0.121	0.149
74527	CP4916-39	0.067	0.095	0.135	0.165
74528	CP4916-40	0.072	0.102	0.144	0.177
74529	CP4916-41	0.074	0.105	0.149	0.182
74493	CP4916-43	0.081	0.115	0.163	0.200
74530	CP4916-45	0.088	0.125	0.176	0.216
74531	CP4916-46	0.095	0.135	0.191	0.233

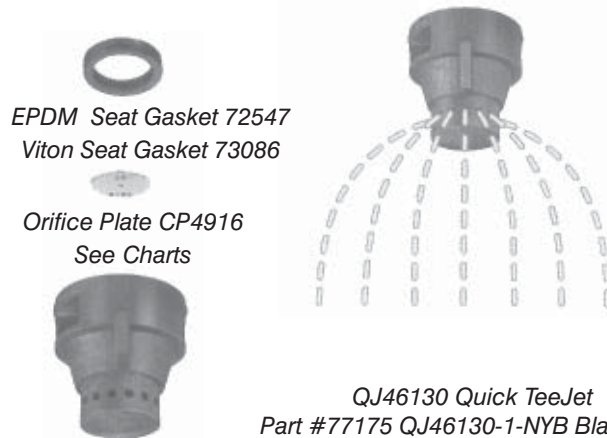
Part No.	Image	GPM			
		5 psi	10 psi	20 psi	30 psi
74532	CP4916-47	0.097	0.137	0.194	0.238
74454	CP4916-48	0.101	0.143	0.202	0.247
74533	CP4916-49	0.104	0.147	0.208	0.255
74534	CP4916-51	0.116	0.164	0.232	0.284
74535	CP4916-52	0.118	0.167	0.237	0.290
74536	CP4916-54	0.127	0.180	0.255	0.312
74455	CP4916-55	0.133	0.188	0.266	0.326
74537	CP4916-57	0.141	0.200	0.283	0.346
74538	CP4916-59	0.152	0.215	0.304	0.372
74539	CP4916-61	0.166	0.233	0.330	0.404
74540	CP4916-63	0.174	0.246	0.347	0.425
74541	CP4916-65	0.185	0.261	0.369	0.452
74542	CP4916-67	0.196	0.278	0.392	0.481
74543	CP4916-68	0.203	0.287	0.405	0.496
74544	CP4916-70	0.216	0.306	0.433	0.530
74545	CP4916-72	0.226	0.320	0.453	0.554
74546	CP4916-73	0.233	0.330	0.467	0.572
74547	CP4916-75	0.245	0.347	0.491	0.601
74548	CP4916-78	0.272	0.385	0.544	0.667
74483	CP4916-80	0.280	0.397	0.561	0.687
74549	CP4916-81	0.290	0.411	0.581	0.711
74550	CP4916-83	0.317	0.449	0.634	0.777
74551	CP4916-86	0.332	0.470	0.664	0.813
74552	CP4916-89	0.346	0.490	0.693	0.849
74553	CP4916-91	0.369	0.523	0.739	0.905
74554	CP4916-93	0.387	0.547	0.774	0.947
74555	CP4916-95	0.404	0.572	0.808	0.990

Part No.	Image	GPM			
		5 psi	10 psi	20 psi	30 psi
74556	CP4916-98	0.422	0.625	0.884	1.08
74557	CP4916-103	0.461	0.653	0.923	1.13
74558	CP4916-107	0.518	0.733	1.04	1.27
74559	CP4916-110	0.548	0.775	1.10	1.34
74560	CP4916-115	0.605	0.855	1.21	1.48
74561	CP4916-120	0.629	0.890	1.26	1.54
74562	CP4916-125	0.693	0.980	1.39	1.70
74563	CP4916-128	0.721	1.02	1.44	1.77
74564	CP4916-132	0.774	1.10	1.55	1.90
74565	CP4916-136	0.840	1.19	1.68	2.06
74566	CP4916-140	0.894	1.27	1.79	2.19
74567	CP4916-144	0.926	1.31	1.85	2.27
74568	CP4916-147	0.953	1.35	1.91	2.33
74569	CP4916-151	1.04	1.47	2.08	2.55
74570	CP4916-156	1.10	1.55	2.20	2.69
74571	CP4916-161	1.15	1.63	2.31	2.83
74572	CP4916-166	1.21	1.72	2.43	2.97
74573	CP4916-170	1.30	1.84	2.61	3.19
74574	CP4916-172	1.36	1.92	2.71	3.32
74575	CP4916-177	1.41	2.00	2.83	3.46
74576	CP4916-182	1.47	2.08	2.95	3.61
74577	CP4916-187	1.56	2.21	3.12	3.82
74578	CP4916-196	1.73	2.45	3.46	4.24
74579	CP4916-205	1.88	2.64	3.75	4.59
74580	CP4916-218	2.11	2.98	4.21	5.16
74581	CP4916-234	2.45	3.47	4.91	6.01
74582	CP4916-250	2.83	4.00	5.66	6.93



**Quick TeeJet 8 - Orifice Nozzles**

**FEATURES:**

- Quick TeeJet connection
- Uniformly distributed streams of liquid fertilizers
- Recommended operating pressure 15-40 PSI (1 to 3 bar)
- Coarse droplets reduce drift
- Semicircle spray pattern
- Variation of flow rate by simply changing the orifice plate

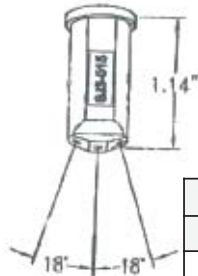


**MORE ORIFICE PLATES LISTED ON PAGE 3-51**

Cap Part No.	77175 QJ46130	PSI	GPM	 (inches)	GPA 										
					3 mph	3.5 mph	4 mph	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph	7.5 mph	8 mph
77175 74979	CP4916-35 74526	20	0.11	40	10.9	9.3	8.2	7.3	6.5	5.9	5.4	5.0	4.7	4.4	4.1
		30	0.14		13.9	11.9	10.4	9.2	8.3	7.6	6.9	6.4	5.9	5.5	5.2
		40	0.17		16.8	14.4	12.6	11.2	10.1	9.2	8.4	7.8	7.2	6.7	6.3
		45	0.18		17.8	15.3	13.4	11.9	10.7	9.7	8.9	8.2	7.6	7.1	6.7
77175 74979	CP4916-39 74527	20	0.14	40	13.9	11.9	10.4	9.2	8.3	7.6	6.9	6.4	5.9	5.5	5.2
		30	0.17		16.8	14.4	12.6	11.2	10.1	9.2	8.4	7.8	7.2	6.7	6.3
		40	0.20		19.8	17.0	14.9	13.2	11.9	10.8	9.9	9.1	8.5	7.9	7.4
		45	0.22		22	18.7	16.3	14.5	13.1	11.9	10.9	10.1	9.3	8.7	8.2
77175 74979	CP4916-48 74454	20	0.25	40	25	21	18.6	16.5	14.9	13.5	12.4	11.4	10.6	9.9	9.3
		30	0.29		29	25	22	19.1	17.2	15.7	14.4	13.3	12.3	11.5	10.8
		40	0.33		33	28	25	22	19.6	17.8	16.3	15.1	14.0	13.1	12.3
		45	0.35		35	30	26	23	21	18.9	17.3	16.0	14.9	13.9	13.0
77175 74979	CP4916-59 74538	15	0.31	40	31	26	23	20	18.4	16.7	15.3	14.2	13.2	12.3	11.5
		20	0.36		36	31	27	24	21	19.4	17.8	16.4	15.3	14.3	13.4
		30	0.44		44	37	33	29	26	24	22	20	18.7	17.4	16.3
		40	0.51		50	43	38	34	30	28	25	23	22	20	18.9
77175 74979	CP4916-68 74543	15	0.38	40	38	32	28	25	23	21	18.8	17.4	16.1	15.0	14.1
		20	0.44		44	37	33	29	26	24	22	20	18.7	17.4	16.3
		30	0.54		53	46	40	36	32	28	27	25	23	21	20
		40	0.63		62	53	47	42	37	34	31	29	27	25	23
77175 74979	CP4916-72 74545	15	0.43	40	43	36	32	28	26	23	21	19.6	18.2	17.0	16.0
		20	0.50		50	42	37	33	30	27	25	23	21	19.8	18.6
		30	0.62		61	53	46	41	37	33	31	28	26	25	23
		40	0.72		71	61	53	48	43	39	36	33	31	29	27
77175 74979	CP4916-80 74483	15	0.49	40	49	42	36	32	29	26	24	22	21	19.4	18.2
		20	0.57		56	48	42	38	34	31	28	26	24	23	21
		30	0.70		69	59	52	46	42	38	35	32	30	28	26
		40	0.81		80	69	60	53	48	44	40	37	34	32	30
77175 74979	CP4916-80 74483	45	0.86	40	85	73	64	57	51	46	43	39	36	34	32

**Note: Always double check your application rates.**

**TeeJet StreamJet**



**3 ORIFICE FERTILIZER NOZZLES**

**FEATURES:**

- VISIFLO® Color system
- 3 Solid Streams of Equal Velocity and Capacity
- Removable Metering Orifice for Easy Cleaning
- Nine Sizes for a Wide Range of Application Rates
- Equally Spaced Distribution at 20" (50 cm) height
- Use with Quick TeeJet Cap 25597-\* - NYR
- Excellent spray distribution quality
- All acetal construction for excellent chemical resistance
- Recommended operating pressure: 20-60 PSI

Optimum Spray Height	
Nozzle Spacing	Spray Height
20"	20"
30"	30"
40"	40"

Liquid Density Conversion Factors		
Weight of Solution	Specific Gravity	Conversion Factor
7.0 lb./gal.	0.84	0.92
8.0 lb./gal.	0.96	0.98
8.34 lb./gal. (water)	1.00	1.04
9.0 lb./gal.	1.08	1.04
10.0 lb./gal.	1.20	1.10
10.65 lb./gal. (28% nitrogen)	1.28	1.13
11.0 lb./gal.	1.32	1.15
12.0 lb./gal.	1.44	1.20
14.0 lb./gal.	1.68	1.30

NOTE: Conversion factors must be used when spraying solutions heavier or lighter than water. First, multiply desired application rate by the appropriate conversion factor above. Then, use the new application rate to select the most appropriate tip capacity and operating pressure from the application chart on this page.

Tip Colour VisiFlo	Tip No. (Strainer Mesh Size)	Liquid Pressure (PSI)	Capacity 1 Nozzle (GPM)	GPA - 20" Tip Spacing							
				3 mph	4 mph	5 mph	6 mph	8 mph	10 mph	12 mph	
GREEN	SJ3-015-VP (100)	20	0.11	10.9	8.2	6.5	5.4	4.1	3.3	2.7	
		30	0.13	12.9	9.7	7.7	6.4	4.8	3.9	3.2	
		40	0.15	14.9	11.1	8.9	7.4	5.6	4.5	3.7	
		50	0.17	16.8	12.6	10.1	8.4	6.3	5.0	4.2	
		60	0.17	16.8	12.6	10.1	8.4	6.3	5.0	4.2	
YELLOW	SJ3-02-VP (50)	20	0.14	13.9	10.4	8.3	6.9	5.2	4.2	3.5	
		30	0.17	16.8	12.6	10.1	8.4	6.3	5.0	4.2	
		40	0.20	19.8	14.9	11.9	9.9	7.4	5.9	5.0	
		50	0.22	22	16.3	13.1	10.9	8.2	6.5	5.4	
		60	0.22	22	16.3	13.1	10.9	8.2	6.5	5.4	
BLUE	SJ3-03-VP (50)	20	0.24	24	17.8	14.3	11.9	8.9	7.1	5.9	
		30	0.27	27	20	16.0	13.4	10.0	8.0	6.7	
		40	0.30	30	22	17.8	14.9	11.1	8.9	7.4	
		50	0.33	33	24	19.8	16.3	12.6	10.4	8.7	
		60	0.35	35	26	21	17.3	13.0	10.4	8.7	
RED	SJ3-04-VP (50)	20	0.30	30	22	17.8	14.9	11.1	8.9	7.4	
		30	0.36	36	27	21	17.8	13.4	10.7	8.9	
		40	0.40	40	30	24	19.8	14.9	11.9	9.9	
		50	0.43	43	33	26	21.8	16.3	13.0	11.6	
		60	0.47	47	35	28	23	17.4	14.0	11.6	
BROWN	SJ3-05-VP (50)	20	0.36	36	27	21	17.8	13.4	10.7	8.9	
		30	0.45	45	33	27	22	16.7	13.4	11.1	
		40	0.50	50	37	30	25	18.6	14.9	12.4	
		50	0.53	53	40	33	27	21.8	17.8	14.6	
		60	0.59	58	44	35	29	22	17.5	14.6	
GRAY	SJ3-06-VP (50)	20	0.42	42	31	25	21	15.6	12.5	10.4	
		30	0.54	53	40	32	27	20	16.0	13.4	
		40	0.60	59	45	36	30	22	17.8	14.9	
		50	0.66	63	50	40	33	25	20.0	16.0	
		60	0.70	69	52	42	35	26	21	17.3	
WHITE	SJ3-08-VP	20	0.56	55	42	33	28	21	16.6	13.9	
		30	0.72	71	53	43	36	27	21	17.8	
		40	0.80	79	59	48	40	30	24	19.8	
		50	0.86	85	63	51	43	33	26	21.8	
		60	0.94	93	70	56	47	35	28	23	
L. BLUE	SJ3-10-VP	20	0.65	64	48	39	32	24	19.3	16.1	
		30	0.90	89	67	53	45	33	27	22	
		40	1.00	99	74	59	50	37	30	25	
		50	1.10	109	81	64	53	41	33	27	
		60	1.19	118	88	71	59	44	35	29	
L. GREEN	SJ3-15-VP	20	0.99	98	74	59	49	37	29	25	
		30	1.24	123	92	74	61	46	37	31	
		40	1.50	149	111	89	74	56	45	37	
		50	1.63	163	126	99	81	63	49	40	
		60	1.83	181	136	109	91	68	54	45	

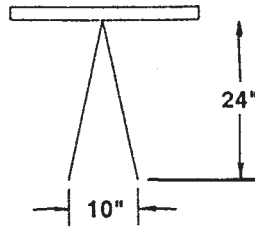
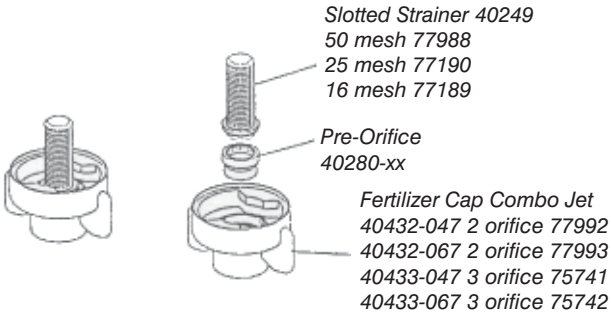


Wilger Fertilizer Nozzles (Combo-Jet)		
Part No.	Replaces	Description
77992	40432-047	2 orifice @ 0.0469 (black)
77993	40432-067	2 orifice @ 0.104 (black)
75741	40433-047	3 orifice @ 0.0469 (black)
75742	40433-067	3 orifice @ 0.104 (black)
77994	40430-15	Fertilizer Nozzle Cap Blank (black)

**SEE WILGER APPLICATION CHART  
PAGE 3-54**

Application Data is based on spraying water at 70°F.

**Wilger Combo-Jet and Conventional Style Fertilizer Nozzles**



Conventional Style Fertilizer Cap  
40182-047 2 orifice 75412  
40182-067 2 orifice 75413  
40183-047 3 orifice 75414  
40183-067 3 orifice 75415

FERTILIZER NOZZLE FLOW RATE AND APPLICATION CHART @ 20" SPACING

<b>COMBO-JET®</b>					<b>IMP. GALLONS PER ACRE</b>								
<b>PRE-ORFICE SIZE PART NO.</b>	<b>RECOM. CAP PART NO.</b>	<b>SCREEN MESH SIZE</b>	<b>LIQUID PRESSURE PSI</b>	<b>EACH NOZZLE IMP. GPM</b>	<b>4 MPH</b>	<b>5 MPH</b>	<b>6 MPH</b>	<b>7 MPH</b>	<b>8 MPH</b>	<b>10 MPH</b>	<b>12 MPH</b>	<b>14 MPH</b>	<b>16 MPH</b>
005 Black 40280-121 75401	40432-047 77992	100 72120	20	0.025	1.9	1.5	1.2	1.1	0.9	0.7	0.6	0.5	0.5
			25	0.028	2.1	1.7	1.4	1.2	1.0	0.8	0.7	0.6	0.5
			30	0.031	2.3	1.8	1.5	1.3	1.1	0.9	0.8	0.7	0.6
			40	0.035	2.6	2.1	1.8	1.5	1.3	1.1	0.9	0.8	0.7
			50	0.040	2.9	2.4	2.0	1.7	1.5	1.2	1.0	0.8	0.7
			60	0.043	3.2	2.6	2.1	1.8	1.6	1.3	1.1	0.9	0.8
0067 Pink 40280-122 75402	40432-047 77992	100 72120	20	0.034	2.5	2.0	1.7	1.4	1.2	1.0	0.8	0.7	0.6
			25	0.037	2.8	2.2	1.9	1.6	1.4	1.1	0.9	0.8	0.7
			30	0.041	3.0	2.4	2.0	1.7	1.5	1.2	1.0	0.9	0.8
			40	0.047	3.5	2.8	2.3	2.0	1.8	1.4	1.2	1.0	0.9
			50	0.053	3.9	3.1	2.6	2.2	2.0	1.6	1.3	1.1	1.0
			60	0.058	4.3	3.4	2.9	2.5	2.2	1.7	1.4	1.2	1.1
01 Orange 40280-85 75403	40432-047 77992	100 72120	20	0.050	3.7	3.0	2.5	2.1	1.9	1.5	1.2	1.1	0.9
			25	0.056	4.2	3.3	2.8	2.4	2.1	1.7	1.4	1.2	1.0
			30	0.061	4.6	3.6	3.0	2.6	2.3	1.8	1.5	1.3	1.1
			40	0.071	5.3	4.2	3.5	3.0	2.6	2.1	1.8	1.5	1.3
			50	0.079	5.9	4.7	3.9	3.4	2.9	2.4	2.0	1.7	1.5
			60	0.087	6.4	5.1	4.3	3.7	3.2	2.6	2.1	1.8	1.6
015 Green 40280-86 75404	40432-047 40432-067 77992 77993	100 72120	20	0.075	5.6	4.5	3.7	3.2	2.8	2.2	1.9	1.6	1.4
			25	0.084	6.2	5.0	4.2	3.6	3.1	2.5	2.1	1.8	1.6
			30	0.092	6.8	5.5	4.6	3.9	3.4	2.7	2.3	2.0	1.7
			40	0.11	7.9	6.3	5.3	4.5	3.9	3.2	2.6	2.3	2.0
			50	0.12	8.8	7.1	5.9	5.0	4.4	3.5	2.9	2.5	2.2
			60	0.13	9.7	7.7	6.4	5.5	4.8	3.9	3.2	2.8	2.4
02 Yellow 40280-87 75405	40432-047 40432-067 77992 77993	50 72119	20	0.10	7.4	5.9	5.0	4.2	3.7	3.0	2.5	2.1	1.9
			25	0.11	8.3	6.6	5.5	4.7	4.2	3.3	2.8	2.4	2.1
			30	0.12	9.1	7.3	6.1	5.2	4.6	3.6	3.0	2.6	2.3
			40	0.14	10.5	8.4	7.0	6.0	5.3	4.2	3.5	3.0	2.6
			50	0.16	11.8	9.4	7.8	6.7	5.9	4.7	3.9	3.4	2.9
			60	0.17	12.9	10.3	8.6	7.4	6.4	5.1	4.3	3.7	3.2
025 Purple 40280-88 75406	40432-047 40432-067 77992 77993	50 72119	20	0.13	9.3	7.4	6.2	5.3	4.6	3.7	3.1	2.7	2.3
			25	0.14	10.4	8.3	6.9	5.9	5.2	4.2	3.5	3.0	2.6
			30	0.15	11.4	9.1	7.6	6.5	5.7	4.6	3.8	3.3	2.8
			40	0.18	13.1	10.5	8.8	7.5	6.6	5.3	4.4	3.8	3.3
			50	0.20	14.7	11.8	9.8	8.4	7.3	5.9	4.9	4.2	3.7
			60	0.22	16.1	12.9	10.7	9.2	8.0	6.4	5.4	4.6	4.0
03 Blue 40280-89 75409	40432-067 77993	50 72119	20	0.15	11.1	8.9	7.4	6.4	5.6	4.5	3.7	3.2	2.8
			25	0.17	12.5	10.0	8.3	7.1	6.2	5.0	4.2	3.6	3.1
			30	0.18	13.7	10.9	9.1	7.8	6.8	5.5	4.6	3.9	3.4
			40	0.21	15.8	12.6	10.5	9.0	7.9	6.3	5.3	4.5	3.9
			50	0.24	17.6	14.1	11.8	10.1	8.8	7.1	5.9	5.0	4.4
			60	0.26	19.3	15.4	12.9	11.0	9.7	7.7	6.4	5.5	4.8
04 Red 40280-90 75408	40432-067 77993	50 72119	20	0.20	14.9	11.9	9.9	8.5	7.4	5.9	5.0	4.2	3.7
			25	0.22	16.6	13.3	11.1	9.5	8.3	6.6	5.5	4.7	4.2
			30	0.25	18.2	14.6	12.1	10.4	9.1	7.3	6.1	5.2	4.6
			40	0.28	21.0	16.8	14.0	12.0	10.5	8.4	7.0	6.0	5.3
			50	0.32	23.5	18.8	15.7	13.4	11.8	9.4	7.8	6.7	5.9
			60	0.35	25.7	20.6	17.2	14.7	12.9	10.3	8.6	7.4	6.4
05 Brown 40280-91 75409	40432-067 77993	50 72119	20	0.25	18.6	14.9	12.4	10.6	9.3	7.4	6.2	5.3	4.6
			25	0.28	20.8	16.6	13.8	11.9	10.4	8.3	6.9	5.9	5.2
			30	0.31	22.8	18.2	15.2	13.0	11.4	9.1	7.6	6.5	5.7
			40	0.35	26.3	21.0	17.5	15.0	13.1	10.5	8.8	7.5	6.6
			50	0.40	29.4	23.5	19.6	16.8	14.7	11.8	9.8	8.4	7.3
			60	0.43	32.2	25.7	21.5	18.4	16.1	12.9	10.7	9.2	8.0
06 Grey 40280-92 75410	40432-067 77993	50 72119	20	0.30	22.3	17.8	14.9	12.7	11.1	8.9	7.4	6.4	5.6
			25	0.34	24.9	19.9	16.6	14.2	12.5	10.0	8.3	7.1	6.2
			30	0.37	27.3	21.8	18.2	15.6	13.7	10.9	9.1	7.8	6.8
			40	0.42	31.5	25.2	21.0	18.0	15.8	12.6	10.5	9.0	7.9
			50	0.47	35.3	28.2	23.5	20.1	17.6	14.1	11.8	10.1	8.8
			60	0.52	38.6	30.9	25.7	22.1	19.3	15.4	12.9	11.0	9.7
08 White 40280-93 75411	40432-067 77993	50 72119	20	0.40	29.7	23.8	19.8	17.0	14.9	11.9	9.9	8.5	7.4
			25	0.45	33.2	26.6	22.2	19.0	16.6	13.3	11.1	9.5	8.3
			30	0.49	36.4	29.1	24.3	20.8	18.2	14.6	12.1	10.4	9.1
			40	0.57	42.0	33.6	28.0	24.0	21.0	16.8	14.0	12.0	10.5
			50	0.63	47.0	37.6	31.3	26.9	23.5	18.8	15.7	13.4	11.8
			60	0.69	51.5	41.2	34.3	29.4	25.7	20.6	17.2	14.7	12.9

NOTE: Application rate based on flow for fertilizer @ 0.85 time theoretical flow for water.

**TeeJet Formulas and Conversion Factors**

Useful Formulas

$$\text{GPM (per nozzle)} = \frac{\text{GPA} \times \text{mph} \times \text{W}}{5,940}$$

$$\text{GPM (per nozzle)} = \frac{\text{GAL}/1000\text{FT}^2 \times \text{MPH} \times \text{W}}{136}$$

$$\text{GPA} = \frac{5,940 \times \text{GPM (per nozzle)}}{\text{MPH} \times \text{W}}$$

$$\text{GAL}/1000\text{FT}^2 = \frac{136 \times \text{GPM (per nozzle)}}{\text{MPH} \times \text{W}}$$

GPM - Gallons per Minute

GPA - Gallons per Acre

GAL/1000FT<sup>2</sup> - Gallons per 1000 square feet

MPH - Miles per Hour

W Nozzle spacing (in inches) for broadcast spraying

Spray width (in inches) for single nozzle, band spraying or boomless spraying

Row spacing (in inches) divided by the number of nozzles per row for directed spraying

**MEASURING TRAVEL SPEED**

Measure a test course in the area to be sprayed or in an area with similar surface conditions. Minimum lengths of 100 and 200 feet are recommended for measuring speeds up to 5 and 10 mph, respectively. Determine the time required to travel the test course. To help insure accuracy, conduct the speed check with a partially loaded (about half full) sprayer and select the engine throttle settings and gear that will be used when spraying. Repeat the above process and average the times that were measured. Use the following equation of the table below to determine ground speed.

$$\text{Speed (MPH)} = \frac{\text{Distance (ft)} \times 60}{\text{Time (seconds)} \times 88}$$

**SPRAYING SOLUTIONS OTHER THAN WATER - NEW METHOD**

Since all the tabulations in this catalogue are based on spraying water, which weighs 8.34 lbs. per USA gallon, conversion factors must be used when spraying solutions which are heavier or lighter than water. To determine the proper size nozzle for the solution to be sprayed, first multiply the desired GPM or GPA of solution by the water rate conversion factor. Then use the new converted GPM or GPA rate to select the proper size nozzle.

Example:

Desired application rate is 20 GPA of 28% N. Determine the correct nozzle size as follows:

$$\text{GPA (solution)} \times \text{Conversion factor} = \text{GPA (from table)}$$

$$20 \text{ GPA (28\%)} \times 1.13 = 22.6 \text{ GPA (water)}$$

The applicator should choose a nozzle size that will supply 22.6 GPA of water at the desired pressure.

**SPEEDS**

SPEED IN MPH	TIME REQUIRED IN SECONDS TO TRAVEL A DISTANCE OF:		
	100 FT	200 FT	300 FT
0.5	136	273	409
1.0	68	136	205
1.5	45	91	136
2.0	34	68	102
2.5	27	55	82
3.0	23	45	68
3.5	19	39	58
4.0	17	34	51
4.5	15	30	45
5.0	14	27	41
5.5	-	25	37
6.0	-	23	34
6.5	-	21	31
7.0	-	19	29
7.5	-	18	27
8.0	-	17	26
8.5	-	16	24
9.0	-	15	23

WEIGHT OF SOLUTION (US GALLONS)	SPECIFIC GRAVITY	CONVERSION FACTORS
7.0 lbs per gallon	.84	.92
8.0 lbs per gallon	.96	.98
8.34 lbs per gallon - water	1.00	1.00
9.0 lbs per gallon	1.08	1.04
10.0 lbs per gallon	1.20	1.10
10.65 lbs per gallon - 28% nitorgen	1.28	1.13
11.0 lbs per gallon	1.32	1.15
12.0 lbs per gallon	1.44	1.20
14.0 lbs per gallon	1.68	1.30

**MISCELLANEOUS CONVERSION FACTORS**

One Acre = 43,560 square feet  
= 43.56 1000 ft<sup>2</sup> blocks  
= 0.405 hectares

One Hectare = 2.471 acres

One Gallon Per Acre  
= 2.9 fluid ounces per 1000ft<sup>2</sup>  
= 9.35 litres per hectare

One Gallon Per 1000ft<sup>2</sup> = 43.56 gallons per acre

One Mile = 5,280 feet  
= 1,610 meters  
= 1.61 kilometers

One Gallon = 128 fluid ounces  
= 8 pints  
= 4 quarts  
= 3.79 liters  
= 0.83 imperial gallons

One Pound Per Square Inch  
= 0.069 bar  
= 6.896 kilopascal

One Mile Per Hour = 1.609 kilometer per hour



## Nozzle Spacing

### NOZZLE SPACING

If the nozzle spacing on your boom is different than those tabulated, multiply the tabulated GPA coverages by one of the following factors.

To calculate a conversion factor for spacings not listed in tables below, use the following formula:

$$\text{Conversion Factor} = \frac{\text{Nozzle Spacing in table (inches)}}{\text{Your Nozzle Spacing (inches)}}$$


20°	
OTHER SPACING (INCHES)	CONVERSION FACTOR
8	2.5
10	2
12	1.67
14	1.43
16	1.25
18	1.11
22	.91
24	.83
30	.66

30°	
OTHER SPACING (INCHES)	CONVERSION FACTOR
26	1.15
28	1.07
32	.94
34	.88
36	.83
38	.79
40	.75
42	.71
44	.68

40°	
OTHER SPACING (INCHES)	CONVERSION FACTOR
28	1.43
30	1.33
32	1.25
34	1.18
36	1.11
38	1.05
42	.95
44	.91
48	.83

### SUGGESTED MINIMUM SPRAY HEIGHTS

The nozzle height suggestions in the table are based on the minimum overlap required to obtain uniform distribution. However, in many cases, typical height adjustments are based on a 1 to 1 nozzle spacing to height ratio. For example, 110° flat spray tips spaced 20 inches apart, are commonly set 20 inches above the target.

	Nozzle Spacing (inches)			
	Angle	20"	30"	40"
TeeJet Standard, TJ	65°	22-24"	33-35"	NR*
TeeJet, XR, TX, DG, TJ	80°	17-19"	26-28"	NR*
TeeJet, XR, DG, TT, TJ, AI	110°	16-18"	20-22"	NR*
FullJet	120°	10-18"***	14-18"***	14-18"***
FloodJet TK, TF	120°	14-16"***	15-17"***	18-20"***

\* Not recommended.

\*\* Nozzle height based on 30° to 45° angle of orientation

\*\*\* Wide angle spray tip height is influenced by nozzle orientation. The critical factor is to achieve a double spray pattern overlap for TK FloodJet nozzles.

### PRESSURE UNITS CROSS REFERENCE CHART

Unit	bar	mbar	kPa	psi	mWs	ft h <sub>2</sub> O	in h <sub>2</sub> O	mmHg	in. Hg	kg/cm <sup>2</sup>	atm
1 bar	1	1000	100	14.5038	10.1972	33.4553	401.463	750.064	29.53	1.01972	0.98692
1 mbar	0.01	1	0.1	0.0145	0.0102	0.03346	0.40146	0.75006	0.02953	0.00102	0.00099
1 kPa	0.01	10	1	0.14504	0.10197	0.33455	4.01463	7.50064	0.2953	0.0102	0.00987
1 PSI	0.06895	68.9476	6.89476	1	0.70307	2.30666	27.6799	51.7151	2.03602	0.07031	0.06805
1 mWS	0.09807	98.0665	9.80665	1.42233	1	3.28084	39.3701	73.5561	2.8959	0.1	0.09678
1 ft H <sub>2</sub> O	0.02989	29.8907	2.98907	0.43353	0.3048	1	12	22.4199	0.88267	0.03048	0.0295
1 in H <sub>2</sub> O	0.00249	2.49089	0.24909	0.03613	0.0254	0.08333	1	1.86833	0.07356	0.00254	0.00246
1 mmHg	0.00133	1.33322	0.13332	0.01934	0.0136	0.0446	0.53524	1	0.03937	0.00136	0.00132
1 in. Hg	0.03386	33.8639	3.38639	0.49115	0.34532	1.13293	13.5951	25.4	1	0.03453	0.03342
1 kg/cm <sup>2</sup>	0.98067	980.662	98.0665	14.2233	10	32.8084	393.701	735.561	28.959	1	0.96784
1 atm	1.01325	1013.25	101.325	14.696	10.3323	33.8985	406.782	760	29.9213	1.03323	1

### METRIC PRESSURE MEASUREMENT UNITS

Unit	bar	mbar	Pa	kPa	MPa
1 bar	1	10 <sup>3</sup>	10 <sup>5</sup>	100	0.1
1 mbar	10 <sup>3</sup>	1	100	0.1	0.1-10 <sup>3</sup>
1 Pa	10 <sup>5</sup>	0.01	1	10 <sup>3</sup>	10 <sup>6</sup>
1 kPa	0.01	10	10 <sup>3</sup>	1	10 <sup>3</sup>
1 MPa	10	10-10 <sup>3</sup>	10 <sup>6</sup>	10 <sup>3</sup>	1

1 Pa = 1N/m<sup>2</sup> 1hPa = 1mbar

**Nozzle Filter/Strainers**

Nozzle filters fit all leading makes of nozzle holders. Nozzle filters are generally used when pressure line strainers are not fitted although they are sometimes used as an additional precaution when making low volume applications. The ball-check filter provides an anti-drip facility in the absence of diaphragm check valves.

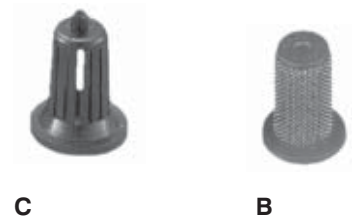
**NYLON BALL CHECK (ANTI-DRIP) NOZZLE FILTERS**

PART NO.	REPLACES	DESCRIPTION	PICTURE
50MNCV	40553	Package of 10 poly ball check filter 50 mesh	A
100MNCV	40153	Package of 10 poly ball check filter 100 mesh	A
72900	32100530	Poly ball check filter 30 mesh	A
72903	11750-PP-5	Poly check valve for large capacity nozzles TeeJet	A
72545	4193A-PP-5-SS	Poly ball check 50 mesh TeeJet	A
72917	01181-2	Replacement screen for 50MN & 50MNCV	
72918	01181-1	Replacement screen for 100MN & 100MNCV	



**NYLON STANDARD NOZZLE FILTERS**

PART NO.	REPLACES	DESCRIPTION	PICTURE
50MN	8079-PP-50	Package of 10 poly standard filter 50 mesh	B
100MN	8079-PP-100	Package of 10 poly standard filter 100 mesh	B
78379	8079-PP-80	Poly Standard Filter 80 mesh	B
78397	8079-PP-200	Poly Standard Filter 200 mesh	B
72901	3210065P	Poly cup-type filter 50 mesh	N/S
72910	4514-NY-32	Nylon slotted strainer 16 mesh	C
72911	4514-NY-20	Nylon slotted strainer 25 mesh	C
72912	4514-NY-10	Nylon slotted strainer 50 mesh	C
72994	4514-32	Brass slotted strainer 16 mesh TeeJet	C
72993	4514-20	Brass slotted strainer 25 mesh TeeJet	C
72905	4514-10	Brass slotted strainer 50 mesh TeeJet	C
72906	4067-SS-50	Stainless Steel cup filter 50 mesh TeeJet	D
72907	4067-SS-100	Stainless steel cup filter 100 mesh TeeJet	D



**BRASS OR STAINLESS STEEL CHECK (ANTI-DRIP) NOZZLE FILTERS**

PART NO.	REPLACES	DESCRIPTION	PICTURE
72913	4193A-5-50SS	Brass ball check filter 50 mesh	E
72914	4193A-5-100SS	Brass ball check filter 100 mesh	E
72904	11750-10	Brass check valve for large capacity nozzle TeeJet	F

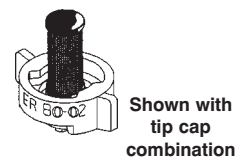
**BRASS OR STAINLESS STEEL STANDARD NOZZLE FILTERS**

PART NO.	REPLACES	DESCRIPTION	PICTURE
72915	28175-3	Brass standard filter 50 mesh stainless steel screen	G
72923	28175-7	Brass standard filter 200 mesh stainless steel screen	G
79220	5053-50-SS	Brass standard filter 50 mesh stainless steel screen TeeJet	G
79221	5053-100-SS	Brass standard filter 100 mesh stainless steel screen TeeJet	G
77238	5053-200-SS	Brass standard filter 200 mesh stainless steel screen TeeJet	G
72920	6051-SS-100	Stainless steel filter 100 mesh TeeJet	G
72917	01181-2	50 mesh screen only for nozzle filter	
72918	01181-1	100 mesh screen only for nozzle filter	



**COMBO-JET SCREENS**

PART NO.	REPLACES	DESCRIPTION	PICTURE
72119	40250-00	Snap in 50 mesh screen less tip & cap	H
72120	40251-00	Snap in 100 mesh screen less tip & cap	H
77189	40247-00	Snap in slotted 16 mesh	H
77190	40248-00	Snap in slotted 25 mesh	H
77988	40249-00	Snap in Slotted 50 mesh	H



Shown with tip cap combination

## TeeJet Nylon & Polypropylene Line Strainers

Strainer heads are available in polypropylene, nylon and aluminum. Bowl materials include polypropylene or nylon. Each strainer includes stainless steel screen (with polypropylene frames on 3/4" to 1 1/2" sizes. Maximum temperatures up to 100°F. Viton O-Ring seal supplied with 3/4" and 1" nylon models; EPDM supplied with 3/4" and 1" polypropylene models; Buna-N gaskets supplied with 1 1/4" and 1 1/2" sizes. Pressure rating: Nylon 110 PSI, Polypropylene 75 PSI.



### NYLON STRAINERS 3/4" & 1"

PART NO.	REPLACES	DESCRIPTION
77210	AA124A-3/4-NY-30	3/4" 30 mesh strainer
77211	AA124A-3/4-NY-50	3/4" 50 mesh strainer
77212	AA124A-1-NY-30	1" 30 mesh strainer
77213	AA124A-1-NY-50	1" 50 mesh strainer
77410	CP16903-3-SSPP	30 mesh screen for 3/4" & 1" - yellow
77411	CP16903-4-SSPP	50 mesh screen for 3/4" & 1" - red
77412	CP16903-5-SSPP	80 mesh screen for 3/4" & 1" - blue
77418	CP16903-6-SSPP	100 mesh screen for 3/4" and 1" - green
77219	CP16903-7-SSPP	200 mesh screen for 3/4" & 1" - orange
77206	CP16430-3/4-NYB	3/4" strainer head cover (nylon)
77207	CP16430-1-NYB	1" strainer head cover (nylon)
77610	CP15402-3/4-AL	3/4" strainer head cover (aluminum)
77611	CP15402-1-AL	1" strainer head cover (aluminum)
77612	CP15403-NY	Bowl for 3/4" & 1" strainer (nylon)
77614	CP7717-2/226-VI	Viton gasket for 3/4" & 1" bowls
77617	CP7717-2/226-BU	Buna-N gasket for 3/4" & 1" bowls

Approx. size of screens: length - 5.75"; OD - 1.21"

### NYLON STRAINERS 1 1/4" & 1 1/2"

PART NO.	REPLACES	DESCRIPTION
77214	AA124-1-1/4-NY-30	1 1/4" 30 mesh strainer
77215	AA124-1-1/4-NY-50	1 1/4" 50 mesh strainer
77216	AA124-1-1/2-NY-30	1 1/2" 30 mesh strainer
77217	AA124-1-1/2-NY-50	1 1/2" 50 mesh strainer
77413	CP15941-2-SSPP	30 mesh screen for 1 1/4" & 1 1/2" - yellow
77414	CP15941-3-SSPP	50 mesh screen for 1 1/4" & 1 1/2" - red
77415	CP15941-4-SSPP	80 mesh screen for 1 1/4" & 1 1/2" - blue
77416	CP15941-5-SSPP	100 mesh screen for 1 1/4" & 1 1/2" green
77417	CP15941-6-SSPP	120 mesh screen for 1 1/4" and 1 1/2" - orange
77628	CP15016-1-1/4-NYB	1 1/4" strainer head (nylon)
77629	CP15016-1-1/2-NYB	1 1/2" strainer head (nylon)
77618	CP12287-1-1/4-AL	1 1/4" strainer head cover (aluminum)
77619	CP12287-1-1/2-AL	1 1/2" strainer head cover (aluminum)
77613	CP12288-NY	Bowl for 1 1/4" & 1 1/2" strainers (nylon)
77615	CP12291-VI	Viton gasket for 1 1/4" & 1 1/2" bowl
77616	CP12291-BU	Buna-N gasket for 1 1/4" & 1 1/2" bowls

Approx. size of screens: length - 8", OD - 2.1"

### POLYPROPYLENE STRAINERS 3/4" & 1"

PART NO.	REPLACES	DESCRIPTION
77218	AA124A-3/4-PP-200	3/4 x 3/4 200 mesh strainer
77220	AA124A-3/4-PP-30	3/4 x 3/4 30 mesh strainer
77221	AA124A-3/4-PP-50	3/4 x 3/4 50 mesh strainer
77222	AA124A-3/4-PP-80	3/4 x 3/4 80 mesh strainer
77223	AA124A-1-PP-30	1 x 1 30 mesh strainer
77224	AA124A-1-PP-50	1 x 1 50 mesh strainer
77225	AA124A-1-PP-80	1 x 1 80 mesh strainer
77208	CP16430-3/4-PP	3/4" strainer head (polypropylene)
77209	CP16430-1-PP	1" strainer head (polypropylene)
77610	CP15402-3/4-AL	3/4" strainer head cover (aluminum)
77611	CP15402-1-AL	1" strainer head cover (aluminum)
77226	CP15403-PP	Bowl (polypropylene)
77614	CP7717-2/266-VI	Viton gasket
77617	CP7717-2/226-BU	Buna-N gasket for 3/4" & 1" bowls
77410	CP16903-3-SSPP	30 mesh screen - yellow
77411	CP16903-4-SSPP	50 mesh screen - red
77412	CP16903-5-SSPP	80 mesh screen - blue
77418	CP16903-6-SSPP	100 mesh screen - green
77219	CP16903-7-SSPP	200 mesh screen - orange

Approx. size of screens; length - 5.75"; OD - 1.21"

**1 1/4" & 1 1/2" NOT AVAILABLE IN  
POLYPROPYLENE**

**Tee Jet Line Strainers**

The AA122 line strainer features a compact size that is well-suited for small agricultural and turf sprayers. The AA122 is constructed of polypropylene for excellent chemical resistance and is available in 1/2" or 3/4" (F) NPT connections. The maximum pressure rating is 150 PSI (10 bar).



COMPLETE STRAINER			SCREENS			APPROX. FLOW RATE WITH 5 PSI PRESSURE DROP IN GPM	PRESSURE RATING (PSI)
PART NO.	REPLACES	MESH SIZE	PART NO.	REPLACES	SCREEN COLOR		
77340	AA122-1/2-PP-16	16	77352	CP23174-1-304SS	None	12	150
77341	AA122-1/2-PP-30	30	77353	CP23174-2-304SS	Yellow	12	150
77342	AA122-1/2-PP-50	50	77354	CP45102-3-SSPP	Red	12	150
77343	AA122-1/2-PP-80	80	77355	CP45102-4-SSPP	Blue	12	150
77344	AA122-1/2-PP-100	100	77356	CP45102-5-SSPP	Green	12	150
77345	AA122-1/2-PP-200	200	77357	CP23174-7-304PP	Orange	12	150
77346	AA122-3/4-PP-16	16	77352	CP23174-1-304SS	None	16	150
77347	AA122-3/4-PP-30	30	77353	CP23174-2-304SS	Yellow	16	150
77348	AA122-3/4-PP-50	50	77354	CP45102-3-SSPP	Red	16	150
77349	AA122-3/4-PP-80	80	77355	CP45102-4-SSPP	Blue	16	150
77350	AA122-3/4-PP-100	100	77356	CP45102-5-SSPP	Green	16	150
77351	AA122-3/4-PP-200	200	77357	CP23174-7-304PP	Orange	16	150

**PARTS FOR ABOVE**

PART NO.	REPLACES	DESCRIPTION
77236	CP23171-1/2-PP	1/2" strainer head (polypropylene)
77237	CP23171-3/4-PP	3/4 strainer head (polypropylene)
77228	CP23173-EPR	Gasket EPDM
77229	CP23173-VI	Gasket Viton
77227	CP23172-PP	Bowl

**Hypro Nylon Line Strainers**

PART NO.	REPLACES	DESCRIPTION	NPT THREADS	SCREEN MESH
77320	3350-0085	Strainer	1/4"	20 SS
77249	3350-0079	Strainer	ID FPT & 1/2"	50 SS
77248	3350-0082	Strainer	1/2"	80 SS
77637	3351-0022	Cap	OD MPT	-



- Low profile
- Stainless steel screen
- Max. 80 PSI

PART NO.	REPLACES	DESCRIPTION	APPROXIMATE SIZE OF SCREENS	
			LENGTH	OD
77322	3800-0048 20 SS	20 mesh screen	1.31"	.99"
77323	3800-0046 50 SS	50 mesh screen	1.31"	.99"
77324	3800-0047 80 SS	80 mesh screen	1.31"	.99"
77325	1700-0064 Buna-N	Gasket	-	-
77326	1700-0065 Viton	Gasket	-	-
77321	3351-0020	Bowl	-	-

## Hypro Nylon & Polypropylene Line Strainers

### HYPRO SERIES 3350 1/2", 3/4" 1", 1 1/4" NYLON STRAINER

PART NO.	REPLACES	DESCRIPTION
77258	3350-0046	1/2" 50 mesh strainer
77259*	3350-0043	1/2" 80 mesh strainer
77420	3800-0029	20 mesh screen for 1/2", 3/4" strainer
77421	3800-0025	50 mesh screen for 1/2", 3/4" strainer
77422*	3800-0026	80 mesh screen for 1/2", 3/4" strainer

Approx. size of screens: length - 3.72"; OD - 1.57"

77634	3351-0007	Strainer cap for 1/2" strainer
77636	3351-0005	Strainer bowl for 1/2", 3/4" strainer
77623	1700-0044	Buna-N gasket for 1/2", 3/4" strainer
77624	1700-0045	Viton gasket for 1/2", 3/4" strainer
77256	3350-0034	3/4" 50 mesh strainer
77257*	3350-0035	3/4" 80 mesh strainer
77420	3800-0029	20 mesh screen for 1/2", 3/4" strainer
77421	3800-0025	50 mesh screen for 1/2", 3/4" strainer
77422*	3800-0026	80 mesh screen for 1/2", 3/4" strainer

Approx. size of screens: length - 3.72", OD - 1.57"

77635	3351-0006	Strainer cap for 3/4" strainer
77636	3351-0005	Strainer bowl for 1/2", 3/4" strainer
77623	1700-0044	Buna-N gasket for 1/2", 3/4" strainer
77624	1700-0045	Viton gasket for 1/2", 3/4" strainer
77253	3350-0057	1" 20 mesh strainer
77254	3350-0058	1" 50 mesh strainer
77255*	3350-0059	1" 80 mesh strainer
77423	3800-0040	20 mesh screen for 1" strainer
77424	3800-0041	50 mesh screen for 1" strainer
77425*	3800-0042	80 mesh screen for 1" strainer

Approx. size of screens: length - 4.23"; OD - 2.30"

77632	3351-0014	Strainer cap for 1" strainer
77633	3351-0013	Strainer bowl for 1" strainer
77621	1700-0057	Buna-N gasket for 1" strainer
77622	1700-0058	Viton gasket for 1" strainer
77250	3350-0071	1 1/4" 20 mesh strainer
77251	3350-0072	1 1/4" 50 mesh strainer
77327	3350-0075	1 1/4" 50 mesh strainer c/w viton gasket
77252*	3350-0073	1 1/4" 80 mesh strainer
77426	3800-0043	20 mesh screen for 1 1/4" strainer
77427	3800-0044	50 mesh screen for 1 1/4" strainer
77428*	3800-0045	80 mesh screen for 1 1/4" strainer

Approx. size of screen: length - 4.55"; OD - 2.30"

77630	3351-0016	Strainer cap for 1 1/4" strainer
77633	3351-0013	Strainer bowl for 1 1/4" strainer
77621	1700-0057	Buna-N gasket for 1 1/4" strainer
77622	1700-0058	Viton gasket for 1 1/4" strainer
77433	3800-0032	Old style 50 mesh screen for 1 1/4" strainer
77434*	3800-0033	Old style 80 mesh screen for 1 1/4" strainer

Approx. size of screen: length - 5.11"; OD - 2.85"

\*80 mesh on 20 mesh screens

### HYPRO SERIES 3350 3/4", 1", 1 1/4", 1 1/2" POLYPROPYLENE STRAINER

- Corrosion resistant for use with most chemicals
- Economically priced
- Non-sticking, heavy-duty threads
- Directional arrow molded in
- Reinforcing ring for durability
- Available in 20, 50 or 80 mesh screen



PART NO.	REPLACES	DESCRIPTION
77240	3350-0034A	3/4" 50 mesh strainer
77241*	3350-0035A	3/4" 80 mesh strainer
77420	3800-0029	20 mesh screen for 3/4" strainer
77421	3800-0025	50 mesh screen for 3/4" strainer
77422*	3800-0026	80 mesh screen for 3/4" strainer

Approx. size of screens: length - 3.72"; OD - 1.57"

77605	3351-0038	Cap 3/4"
77606	3351-0039	Bowl 3/4"
77625	1700-0091	EPDM gasket for 3/4"
77242	3350-0058A	1" 50 mesh strainer
77243*	3350-0059A	1" 80 mesh strainer
77423	3800-0040	20 mesh screen for 1" strainer
77424	3800-0041	50 mesh screen for 1" strainer
77425*	3800-0042	80 mesh screen for 1" strainer

Approx. size of screens: length - 4.23"; OD - 2.30"

77607	3351-0040	Cap 1"
77608	3351-0043	Bowl 1"
77626	1700-0092	EPDM gasket for 1"
77244	3350-0072A	1 1/4" 50 mesh strainer
77245*	3350-0073A	1 1/4" 80 mesh strainer
77426	3800-0043	20 mesh screen for 1 1/4" strainer
77427	3800-0044	50 mesh screen for 1 1/4" strainer
77428*	3800-0045	80 mesh screen for 1 1/4" strainer

Approx. size of screens: length - 4.55"; OD - 2.30"

77609	3351-0041	Cap 1 1/4"
77608	3351-0043	Bowl 1 1/4"
77626	1700-0092	EPDM gasket for 1 1/4"
77246	3350-0113A	1 1/2" 50 mesh strainer
77247*	3350-0114A	1 1/2" 80 mesh strainer
77429	3800-0065	20 mesh screen for 1 1/2" strainer
77430	3800-0066	50 mesh screen for 1 1/2" strainer
77431*	3800-0067	80 mesh screen for 1 1/2" strainer

Approx. size of screens: length - 5.45"; OD - 2.30"

77627	3351-0042	Cap 1 1/2"
77608	3351-0043	Bowl 1 1/2"
77626	1700-0092	EPDM gasket for 1 1/2"

\*80 mesh on 20 mesh screens

**Suction Strainers**

**MOLDED PVC BASE, STAINLESS STEEL SCREENS, 40 MESH, FPT**

PART NO.	REPLACES	FTP SIZE
77268	RV663	1/4"
77269	RV6631	3/8"
77276	RV6632	1/2"
77239	RV6633	3/4"
77277	RV6634	1"
77278	RV6636	1 1/2"



**3/4" & 1" NYLON STRAINERS**

- Made of corrosion resistant nylon
- Easily installed into plumbing systems
- Simply unscrew bowl for easy cleaning

PART NO.	REPLACES	DESCRIPTION
77200	61464	3/4" x 3/4" 20 mesh strainer
77201	61465	3/4" x 3/4" 40 mesh strainer
77202	61466	3/4" x 3/4" 80 mesh strainer
77203	61469	1" x 1" 20 mesh strainer
77204	61470	1" x 1" 40 mesh strainer
77205	61471	1" x 1" 80 mesh strainer
77600	5072228	Viton gasket
77601	61537	EPDM gasket
77400	61404	20 mesh screen only
77401	61405	40 mesh screen only
77402	61406	80 mesh screen only

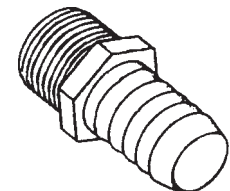
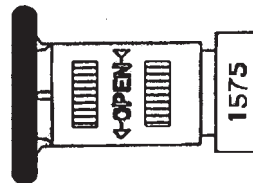


Approx. size of screens: length - 4.55"; OD - 1.42"

Bowls and caps not available

**Fire Hose Nozzle (Red Plastic)**

PART NO.	DESCRIPTION & THREAD
73603	1 1/2" nozzle NPSH
75789	2" nozzle NPSH
75790	1" nozzle NPSH
75791	3/4" nozzle GHT



**HOSE BARBS**  
**SEE SECTION 5**

## Norwesco Polypropylene Y-Line Strainers

- Manufactured from Polypropylene w/EPDM gaskets
- Protect & prevent clogging of lines, pumps, spray tips
- 304 stainless steel screens - 20 to 80 mesh
- Pressure rating: 90PSI



### Y-LINE STRAINERS 1/2", 3/4", 1" 1 1/4", 1 1/2", 2", 3"

PART NO.	REPLACES	DESCRIPTION
77638	61472	1/2" w/20 mesh screen
77639	61473	1/2" w/40 mesh screen
77654	61474	1/2" w/80 mesh screen
77655	61475	3/4" w/20 mesh screen
77658	61476	3/4" w/40 mesh screen
77659	61477	3/4" w/80 mesh screen
77663	61478	1" w/20 mesh screen
77664	61479	1" w/40 mesh screen
77665	61480	1" w/80 mesh screen
77667	61738	1 1/4" w/20 mesh screen
77286	61740	1 1/4" w/40 mesh screen
77287	61741	1 1/4" w/80 mesh screen
77280	61488	1 1/2" w/20 mesh screen
77281	61489	1 1/2" w/40-20 mesh screen
77282	61490	1 1/2" w/80-20 mesh screen
77283	61493	2" w/20 mesh screen
77284	61494	2" w/40-20 mesh screen
77285	61495	2" w/80-20 mesh screen
77668	62337	3" w/6 mesh screen
77669	62338	3" w/12 mesh screen
77674	62339	3" w/20 mesh screen
77675	62340	3" w/40 mesh screen

### REPLACEMENT PARTS

PART NO.	REPLACES	DESCRIPTION
77676	61452	Gasket 1/2", 3/4" strainer
77657	61750	Gasket 1", 1 1/4" strainer
77656	61561	Gasket 1 1/2", 2" strainer
77677	62266	Body O-Ring 3"
77678	61449	20 mesh screen 1/2", 3/4" strainer
77679	61450	40 mesh screen 1/2", 3/4" strainer
77680	61451	80 mesh screen 1/2", 3/4" strainer
77463	61749	20 mesh screen 1", 1 1/4" strainer (5.2" x 1.7")
77464	61746	40 mesh screen 1", 1 1/4" strainer (5.2" x 1.7")
77465	61747	80 mesh screen 1", 1 1/4" strainer (5.2" x 1.7")
77460	YLS20SC	20 mesh screen old style 1 1/2" (7" x 2.3")
77462	YLS80SC	80 mesh screen old style 1 1/2" (7" x 2.3")
77466	61508	20 mesh screen 1 1/2", 2" strainer (7" x 2.56")
77467	61509	40/20 mesh screen 1 1/2", 2" strainer (7" x 2.56")
77468	61510	80/20 mesh screen 1 1/2", 2" strainer (7" x 2.56")
77681	62252	20 mesh screen 3"
77682	62261	40 mesh screen 3"
77683	62400	80 mesh screen 3"
77819	61567	2" bowl

## Delavan Y-Line Strainers



- A chemical-resistant Viton O-Ring is standard
- There is a reduced pressure loss through this strainer
- The flow design has been improved so the strainer screen does not become plugged as quickly
- A new coarse Buttress thread is featured on the cap for ease of installation and removal. (only two turns and the cap is off)
- Cap removal is made easier by a slot in the cap. Use a screwdriver or pliers through the slot to loosen cap.
- The new body configuration turns the liquid flow. (The strainer acts as a plumbing elbow.)
- The O-Ring sits on a special chamfer to seal against leaking and for easy removal of cap for cleaning

### Y-LINE STRAINERS 3/4", 1" 1 1/4", 1 1/2"

PART NO.	REPLACES	DESCRIPTION
77260	39908-3	3/4" 20 mesh strainer
77261	39908-2	3/4" 40 mesh strainer
77262	39908-1	3/4" 80 mesh strainer
77263	39908-7	3/4" 100 mesh strainer
77264	39908-6	1" 20 mesh strainer
77300	45946-1	1" 20 mesh strainer
77265	39908-5	1" 40 mesh strainer
77266	39908-4	1" 80 mesh strainer
77267	39908-8	1" 100 mesh strainer
77270	39911-4	1 1/4" 20 mesh strainer
77271	39911-5	1 1/4" 40 mesh strainer
77272	39911-6	1 1/4" 100 mesh strainer
77273	39911-1	1 1/2" 20 mesh strainer
77274	39911-2	1 1/2" 40 mesh strainer
77275	39911-3	1 1/2" 100 mesh strainer
77440	31500-3	20 mesh screen for 3/4", 1" strainer
77441	31500-1	40 mesh screen for 3/4", 1" strainer
77442	31500-4	80 mesh screen for 3/4", 1" strainer
77443	31500-8	100 mesh screen for 3/4", 1" strainer

Approx. size of screens: length - 4.75"; OD - 1.60"

77445	25157	20 mesh screen for 1 1/4", 1 1/2"
77446	25156	40 mesh screen for 1 1/4", 1 1/2"
77447	32876	10 mesh screen for 1 1/4", 1 1/2"

Approx. size of screens: length - 6.50"; OD - 2.40"

70882	31352-226	O-Ring for 3/4" and 1" strainers
70883	31352-234	O-Ring for 1 1/4" and 1 1/2" strainers

**Banjo Polypropylene "Y" Strainers**

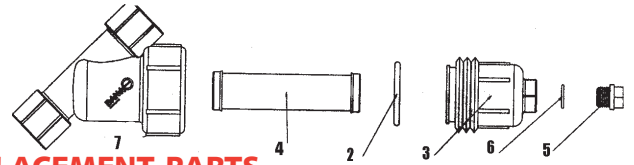


**FEATURES**

- Precision molded construction
- Corrosion resistant
- Lightweight
- Fibreglass reinforced
- Easy grip end cap
- 304 stainless steel screen (poly ribbed 1 1/2" and 2")
- EPDM gaskets
- Heavy duty end cap threads
- 75 PSI maximum 1/2" - 1 1/4"
- 150 PSI maximum 1 1/2" - 2"
- Clean-out plug

**Y-LINE STRAINERS 1/2", 3/4", 1", 1 1/4", 1 1/2", 2"**

PART NO.	REPLACES	SIZE	DESCRIPTION
77279	LS050-20	1/2" x 1/2"	Strainer - 20 mesh s.s. screen
77288	LS050-40	1/2" x 1/2"	Strainer - 40 mesh s.s. screen
77289	LS050-80	1/2" x 1/2"	Strainer - 80 mesh s.s. screen
77296	LS075-20	3/4" x 3/4"	Strainer - 20 mesh s.s. screen
77297	LS075-40	3/4" x 3/4"	Strainer - 40 mesh s.s. screen
77298	LS075-80	3/4" x 3/4"	Strainer - 80 mesh s.s. screen
77299	LS100-20	1" x 1"	Strainer - 20 mesh s.s. screen
77301	LS100-40	1" x 1"	Strainer - 40 mesh s.s. screen
77302	LS100-80	1" x 1"	Strainer - 80 mesh s.s. screen
77303	LS125-20	1 1/4" x 1 1/4"	Strainer - 20 mesh s.s. screen
77304	LS125-40	1 1/4" x 1 1/4"	Strainer - 40 mesh s.s. screen
77307	LS125-80	1 1/4" x 1 1/4"	Strainer - 80 mesh s.s. screen
74950	LS150-06	1 1/2" x 1 1/2"	Strainer - 6 mesh s.s. screen
74951	LS150-12	1 1/2" x 1 1/2"	Strainer - 12 mesh s.s. screen
77308	LS150-20	1 1/2" x 1 1/2"	Strainer - 20 mesh s.s. screen
74952	LS150-30	1 1/2" x 1 1/2"	Strainer - 30 mesh s.s. screen
77309	LS150-50	1 1/2" x 1 1/2"	Strainer - 50 mesh s.s. screen
77310	LS150-80	1 1/2" x 1 1/2"	Strainer - 80 mesh s.s. screen
74953	LS150-120	1 1/2" x 1 1/2"	Strainer - 120 mesh s.s. screen
74954	LS200-06	2" x 2"	Strainer - 6 mesh s.s. screen
74955	LS200-12	2" x 2"	Strainer - 12 mesh s.s. screen
77311	LS200-20	2" x 2"	Strainer - 20 mesh s.s. screen
74956	LS200-30	2" x 2"	Strainer - 30 mesh s.s. screen
77305	LS200-50	2" x 2"	Strainer - 50 mesh s.s. screen
77306	LS200-80	2" x 2"	Strainer - 80 mesh s.s. screen
74957	LS200-120	2" x 2"	Strainer - 120 mesh s.s. screen



**REPLACEMENT PARTS**

REF.	PART NO.	REPLACES	DESCRIPTION
2	77312	LS075-G	Gasket (fits 1/2" and 3/4" strainers)
2	77313	LS100-G	Gasket (fits 1" and 1 1/4" strainers)
2	77314	LS150-G	Gasket (fits 1 1/2" and 2" strainers) new style sq. gasket
2	73770	LS200-G	Gasket (fits 1 1/2" and 2" strainers) old style O-Ring
3	77315	LS075-C1	End cap (fits 1/2" and 3/4" strainers)
3	77316	LS100-C1	End cap (fits 1" and 1 1/4" strainers)
3	77317	LS150-C	End cap (fits 1 1/2" and 2" strainers)
4	77318	LS720	20 mesh screen (fits 1/2" and 3/4" strainers)
4	77319	LS740	40 mesh screen (fits 1/2" and 3/4" strainers)
4	77328	LS780	80 mesh screen (fits 1/2" and 3/4" strainers)
4	77329	LS120	20 mesh screen (fits 1" and 1 1/4" strainers)
4	77330	LS140	40 mesh screen (fits 1" and 1 1/4" strainers)
4	77331	LS180	80 mesh screen (fits 1" and 1 1/4" strainers)
4	77784	LS206	6 mesh screen (fits 1 1/2" and 2" strainers)
4	77785	LS212	12 mesh screen (fits 1 1/2" and 2" strainers)
4	77332	LS220	20 mesh screen (fits 1 1/2" and 2" strainers)
4	77786	LS230	30 mesh screen (fits 1 1/2" and 2" strainers)
4	77480	LS250	50 mesh screen (fits 1 1/2" and 2" strainers)
4	77481	LS280	80 mesh screen (fits 1 1/2" and 2" strainers)
4	77787	LS2120	120 mesh screen fits 1 1/2" and 2" strainers)
5	71521	12723	1/4" drain plug (fits 1/2" and 3/4" strainers)
5	71519	12777	1/2" clean-out plug (fits 1" and 1 1/4" strainers)
5	77334	LSQ200PL	1" clean-out plug (fits 1 1/2" and 2" strainers)
6	77333	12724	EPDM O-Ring for drain plug (fits 1/2" and 3/4" strainers)
6	76540	UV15163	EPDM O-Ring for clean-out plug (fits 1" and 1 1/4" strainers)
6	77335	LSQ200-R	EPDM o-ring for clean-out plug (fits 1 1/2" and 2" strainers)
7	75173	LS200-B	Y-Body 2"
7	75174	LS150-B	Y-Body 1 1/2"
7	75175	LS125-B	Y-Body 1 1/4"
7	75176	LS100-B	Y-Body 1"
7	75177	LS075-B	Y-Body 3/4"
7	75178	LS050-B	Y-Body 1/2"



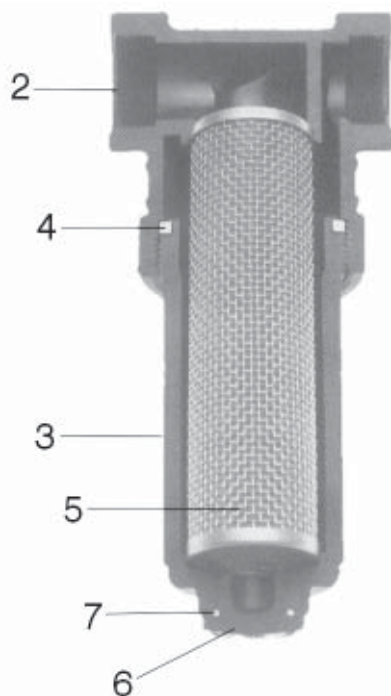
## Banjo Polypropylene "T" Line Strainers

### FEATURES

- Heavy-duty glass reinforced polypropylene.
- Clean-out plug
- 304 stainless steel reinforced screens
- EPDM gaskets
- 150 PSI at 70°F

### 3/4", 1", 1 1/4" AND 1 1/2" POLY "T" STRAINERS

PART NO.	REPLACES	DESCRIPTION
77191	LST075-16	3/4" poly "T" strainer - 16 mesh screen
77364	LST075-30	3/4" poly "T" strainer - 30 mesh screen
77365	LST075-50	3/4" poly "T" strainer - 50 mesh screen
79284	LST075-80	3/4" poly "T" strainer - 80 mesh screen
77192	LST075-100	3/4" poly "T" strainer - 100 mesh screen
77193	LST100-16	1" poly "T" strainer - 16 mesh screen
77366	LST100-30	1" poly "T" strainer - 30 mesh screen
79309	LST100-50	1" poly "T" strainer - 50 mesh screen
77367	LST100-80	1" poly "T" strainer - 80 mesh screen
77194	LST100-100	1" poly "T" strainer - 100 mesh screen
77195	LST125-16	1 1/4" poly "T" strainer - 16 mesh screen
77368	LST125-30	1 1/4" poly "T" strainer - 30 mesh screen
77369	LST125-50	1 1/4" poly "T" strainer - 50 mesh screen
77370	LST125-80	1 1/4" poly "T" strainer - 80 mesh screen
77196	LST125-100	1 1/4" poly "T" strainer - 100 mesh screen
77197	LST150-16	1 1/2" poly "T" strainer - 16 mesh screen
77371	LST150-30	1 1/2" poly "T" strainer - 30 mesh screen
79288	LST150-50	1 1/2" poly "T" strainer - 50 mesh screen
79291	LST150-80	1 1/2" poly "T" strainer - 80 mesh screen
77499	LST150-100	1 1/2" poly "T" strainer - 100 mesh screen



### REPLACEMENT PARTS 3/4", 1", 1 1/4" AND 1 1/2"

REF	PART NO.	REPLACES	DESCRIPTION
2	77377	LST075-H	3/4" poly "T" strainer head
2	77376	LST100-H	1" poly "T" strainer head
2	77381	LST125-H	1 1/4" poly "T" strainer head
2	77382	LST150-H	1 1/2" poly "T" strainer head
3	79287	LST100-B	Poly "T" strainer bowl (fits 3/4" and 1")
3	79298	LST150-B	Poly "T" strainer bowl (fits 1 1/4" and 1 1/2")
4	77374	LST100-G	Poly "T" strainer gasket (fits 3/4" and 1")
4	79290	LST150-G	Poly "T" strainer gasket (fits 1 1/4" and 1 1/2")
4	75172	LST150-GV	Poly "T" strainer Viton gasket (fits 1 1/4" and 1 1/2")
5	77782	LST116	16 mesh screen (fits 3/4" and 1" "T" strainer)
5	77372	LST130	30 mesh screen (fits 3/4" and 1" "T" strainer)
5	77373	LST150	50 mesh screen (fits 3/4" and 1" "T" strainer)
5	79285	LST180	80 mesh screen (fits 3/4" and 1" "T" strainer)
5	77375	LST1100	100 mesh screen (fits 3/4" and 1" "T" strainer)
5	77783	LST1516	16 mesh screen (fits 1 1/4" and 1 1/2" "T" strainer)
5	77378	LST1530	30 mesh screen (fits 1 1/4" and 1 1/2" "T" strainer)
5	79289	LST1550	50 mesh screen (fits 1 1/4" and 1 1/2" "T" strainer)
5	77379	LST1580	80 mesh screen (fits 1 1/4" and 1 1/2" "T" strainer)
5	77380	LST15100	100 mesh screen (fits 1 1/4" and 1 1/2" "T" strainer)
6	71519	12777	Clean-out plug - 1/2"
6	77334	LSQ200-PL	Clean-out plug - 1"
7	77335	LSQ200-R	O-Ring for clean-out plug - EPDM (1 1/4" & 1 1/2")
7	75170	LSQ200-RV	O-Ring for clean-out plug - Viton (1 1/4" and 1 1/2")
7	76540	UV15163	O-Ring for clean-out plug - EPDM (3/4" & 1")
7	75171	UV15163V	O-Ring for clean-out plug - Viton (3/4" and 1")

**Banjo LSQ Polypropylene Line Strainers**

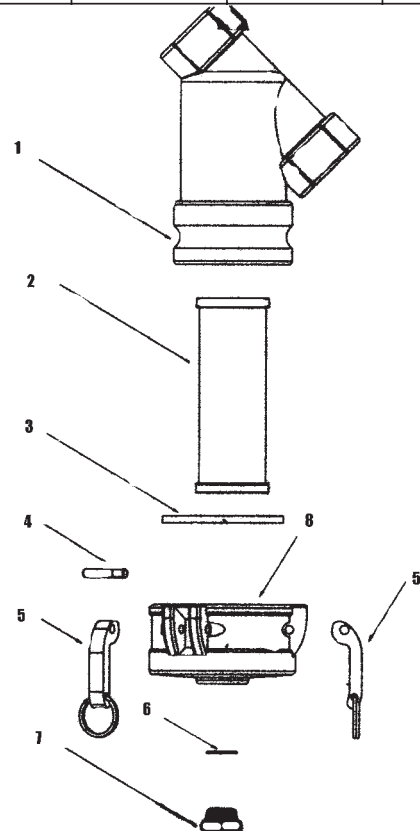
**FEATURES**

- Precision molded in glass reinforced polypropylene
- Cam lever configuration for easy access for cleaning and servicing
- 3/4" plug in cam lever cap for attaching ball valve for draining or back flushing
- Stainless steel screens
- EPDM lathe cut gasket
- 75 PSI maximum



LSQ SERIES POLY STRAINERS		
Part Number	Replaces	Description
75603	LSQ150-06	1 1/2" x 1 1/2" LSQ Line Strnr - 6 mesh screen
75604	LSQ150-12	1 1/2" x 1 1/2" LSQ Line Strnr - 12 mesh screen
75605	LSQ150-20	1 1/2" x 1 1/2" LSQ Line Strnr - 20 mesh screen
75606	LSQ150-30	1 1/2" x 1 1/2" LSQ Line Strnr - 30 mesh screen
75607	LSQ150-50	1 1/2" x 1 1/2" LSQ Line Strnr - 50 mesh screen
75608	LSQ150-80	1 1/2" x 1 1/2" LSQ Line Strnr - 80 mesh screen
75609	LSQ150-120	1 1/2" x 1 1/2" LSQ Line Strnr - 120 mesh screen
75613	LSQ200-06	2" x 2" LSQ Line Strnr - 6 mesh screen
75623	LSQ200-12	2" x 2" LSQ Line Strnr - 12 mesh screen
75624	LSQ200-20	2" x 2" LSQ Line Strnr - 20 mesh screen
75627	LSQ200-30	2" x 2" LSQ Line Strnr - 30 mesh screen
75628	LSQ200-50	2" x 2" LSQ Line Strnr - 50 mesh screen
75629	LSQ200-80	2" x 2" LSQ Line Strnr - 80 mesh screen
75632	LSQ200-120	2" x 2" LSQ Line Strnr - 120 mesh screen

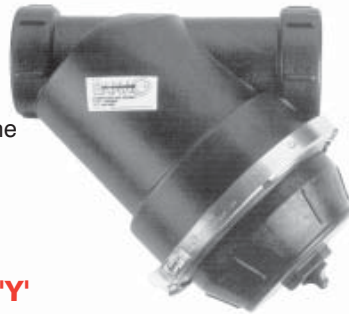
REPLACEMENT PARTS LSQ "Y" STRAINER			
Item	Part Number	Replaces	Description
3	75633	LSQ200-G	2" Gasket (fits 1 1/2" and 2") - EPDM
7	75634	PLUG075S	1" Clean-Out Plug
5	73763	300K	Cam Arm Stainless Steel 3" w/Ring
4	75635	300P	Cam Pin Stainless (fits LSQ Cap)
2	75636	LS206	6 mesh screen (fits 1 1/2" and 2" strainers)
2	77785	LS212	12 mesh screen (fits 1 1/2" and 2" strainers)
2	77332	LS220	20 mesh screen (fits 1 1/2" and 2" strainers)
2	77786	LS230	30 mesh screen (fits 1 1/2" and 2" strainers)
2	77480	LS250	50 mesh screen (fits 1 1/2" and 2" strainers)
2	77481	LS280	80 mesh screen (fits 1 1/2" and 2" strainers)
2	77787	LS120	120 mesh screen (fits 1 1/2" and 2" strainers)
8	75637	LSQ200-C	2" cap (fits 1 1/2" and 2" strainers)
6	75638	LSQ200/R1	O-Ring for Clean-out plug -EPDM



**Banjo 3" Polypropylene "Y" Strainers**

**FEATURES**

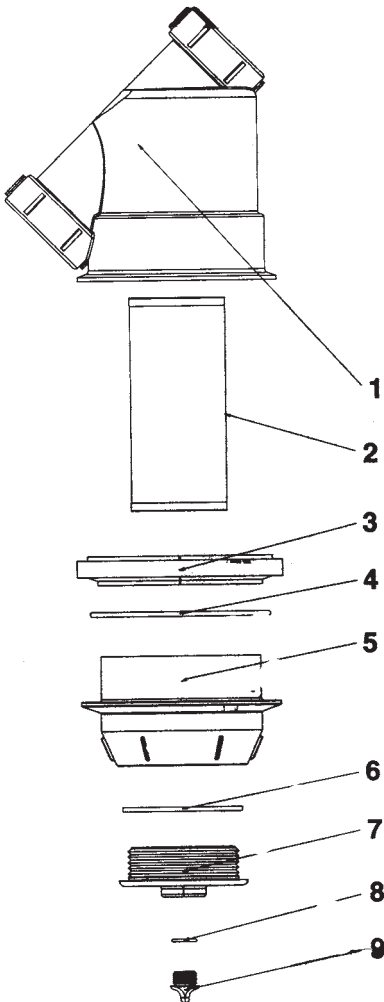
- Lightweight
- High volume
- Constructed of glass filled polypropylene
- ½" drain plug in bottom of cap
- Reinforced stainless steel screen
- 75 PSI maximum



**WARNING: 3" POLYPROPYLENE 'Y' STRAINER TO BE USED ON SUCTION SIDE OR NON-PRESSURE SIDE IN ALL APPLICATIONS.**



3" POLY "Y" STRAINERS		
Part Number	Replaces	Description
75639	LS300-04	3" Line Strainer with 4 mesh screen
75647	LS300-08	3" Line Strainer with 8 mesh screen
75648	LS300-12	3" Line Strainer with 12 mesh screen
77336	LS300-20	3" Line Strainer with 20 mesh screen
77337	LS300-50	3" Line Strainer with 50 mesh screen

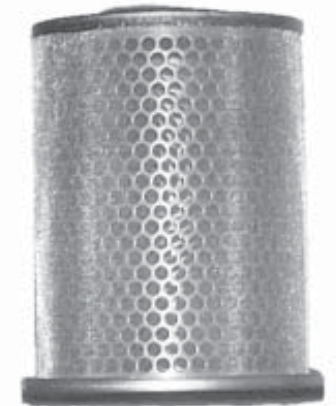


REPLACEMENT PARTS 3" POLY "Y" STRAINERS			
Item	Part Number	Replaces	Description
2	75649	LS304	4 mesh screen (fits 3" strainer)
2	75653	LS308	8 mesh screen (fits 3" strainer)
2	75654	LS312	12 mesh screen (fits 3" strainer)
2	77358	LS320	20 mesh screen (fits 3" strainer)
2	77359	LS350	50 mesh screen (fits 3" strainer)
5	75655	LS300C2	3" cap (fits 3" strainer) (complete)
3	77363	LS300R2	3" S.S. Clamp (fits 3" strainer)
4	77338	LS300-G1	3" strainer gasket - EPDM
4	74972	LS300GV1	3" strainer gasket FKM (viton type)
1	75656	LS300-B	"Y" Body 3"
6	77362	LS300ECG	End Cap Gasket - EPDM
9	71553	13777	Clean-Out Plug - 1/2"
8	71555	13778	O-Ring Clean Out Plug-EPDM
7	77339	LS300EC	End Cap Only (plug sold separately)

**Canadian General Filters**

- Leakproof construction with machined gasket seats and UL listed gasket compounds.
- Iron and steel construction for maximum integrity and durability
- Choice of three sizes
- Approx. size of cartridges 77470, 77472, 77473: length - 4.50"; OD - 3.25"

PART NO.	REPLACES	DESCRIPTION
77290	2A-17AF	Felt 1/2" strainer
77291	2A-17AF	Felt 3/4" strainer
77292	2A-17AF	Felt 1" strainer
77293	2A-17AS	Monel 1/2" strainer
77294	2A-17AS	Monel 3/4" strainer
77295	2A-17AS	Monel 1" strainer
77640	2A-18A	1/2" head only
77641	2A-18A	3/4" head only
77642	2A-18A	1" head only
77643	2A-701BA	Bowl only for 1/2"
77644	2A-701BB	Bowl only for 3/4" or 1"
77647	2A-22	Bolt for 3/4" or 1"
77648	2A-704	Bolt for 1/2"
77649	1A-58	Fiber washer
77650	2A-705	Rubber gasket for bowl
77651	2A-705V	Vellumoid gasket for bowl
77652	2A-20	Rubber gasket - monel only
77653	2A-19	Cork gasket - monel only
77470	2A-710P	Felt cartridge - large
77471	1A-30P	Felt cartridge - small
77472	2A-710SL	100 mesh monel cartridge
77473	2A-710SL60	60 mesh monel cartridge



**MONEL**



**FELT**

## Nylon Suction Strainers

Economical, completely nylon suction strainer with nylon screen. Available with 5/8" and 3/4" hose barb and in 40 mesh only.

PART NO.	REPLACES	DESCRIPTION
77000	36761-1	40 mesh strainer w/5/8" (16 mm) hose connections



SIZE OF OPENING	STRAINER AREA	EFFECTIVE STRAINING AREA
.018" (.42 mm)	13.3 in <sup>2</sup> (86 cm <sup>2</sup> )	5.1 in <sup>2</sup> (33 cm <sup>2</sup> )

## Suction Strainers

These strainers easily disassemble for servicing. 40 and 80 mesh stainless steel screens are available. NOTE: generally, 40 mesh screens are recommended for use when 50 mesh nozzle screens are used. 80 mesh is recommended with 100 mesh nozzle screens or when extra protection is needed

PART NO.	REPLACES	DESCRIPTION	APPROXIMATE SIZE OF SCREEN	
			LENGTH	OD
77005	1700-2**	40 mesh strainer w/3/4" NPT (F) connections	-	-
77006	1700-3	80 mesh strainer w/3/4" NPT (F) connections	-	-
77441	31500-1	40 mesh screen only	4.75"	1.54"
77442	31500-2*	80 mesh screen only	4.75"	1.54"
77443	31500-8	100 mesh screen only	4.75"	1.54"
77440	31500-3	20 mesh screen only	4.75"	1.54"

\*80 mesh outer and 20 mesh inner screen

\*\* Requires supporting spring for screen



MESH SIZE	SIZE OF OPENINGS	STRAINER AREA	EFFECTIVE STRAINING AREA
40	.018" (.42 mm)	22.4 in <sup>2</sup> (145 cm <sup>2</sup> )	7.1 in <sup>2</sup> (46cm <sup>2</sup> )
80	.007 (.18 mm)	22.4 in <sup>2</sup> (145 cm <sup>2</sup> )	7.1 in <sup>2</sup> (46 cm <sup>2</sup> )

## Economy Line Strainers

Made of 3/4" aluminum pipe with 40, 80, and 120 mesh stainless steel screens as standard. Low-cost protection is possible with this easy to clean, compact strainer that may be used up to 125 psig (850 kPa).

PART NO.	REPLACES	DESCRIPTION	APPROXIMATE SIZE OF SCREEN	
			LENGTH	OD
77012	2000-1	40 mesh strainer w/3/4" GHT (M) outlet, 3/4" NPT (M) inlet	-	-
77013	2000-2	80 mesh strainer w/3/4" GHT(M) outlet, 3/4" NPT (M) inlet	-	-
77016	14095-1	40 mesh screen only	5"	.60"
77017	14095-2	80 mesh screen only	5"	.60"
77018	14095-3	120 mesh screen only	5"	.60"



## Garden Hose Washer and Filter Washer



PART NO.	REF	DESCRIPTION
73644	1	Washer
73645	2	Filter washer

**Foot Valves and Strainers**

**STANDARD BRONZE FOOT VALVE WITH PERFORATED BRASS STRAINER**

PART NO	REPLACES	PIPE SIZE	MIN. WELL DIA.
78696	627610	3/4"	1 1/4"
78697	627620	1"	2"
78698	627630	1 1/4"	2 1/2"
78699	627640	1 1/2"	3"
78700	627650	2"	3 1/2"
76145	FU-300	3"	3 1/2"
76146	FU-400	4"	4 1/2"



**HD BRONZE FOOT VALVE WITH PERFORATED STAINLESS STEEL STRAINER**

PART NO	REPLACES	PIPE SIZE	MIN. WELL DIA.
78706	627530	2 1/2"	3"
78707	627540	3"	3 1/2"



**NYLON FOOT STRAINERS**

PART NO.	REPLACES	DESCRIPTION
77020	08ART17B	1 1/4" foot strainer
77021	08ART17C	1 1/2" foot strainer
77022	08ART17D	2" foot strainer



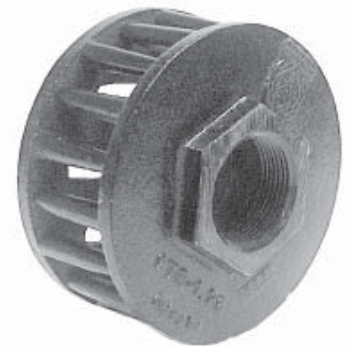
**CYCOLAC FOOT VALVE WITH STRAINER (ABS PLASTIC)**

PART NO	REPLACES	PIPE SIZE	MIN. WELL DIA.
78701	626860	1"	2"
78702	626870	1 1/4"	2 1/2"
78703	626871	1 1/2"	2 1/2"



**CAST IRON SUCTION STRAINERS - STR SERIES**

PART NO	MODEL NO.	REPLACES	PIPE SIZE	DESCRIPTION
78714	STR-1 1/4	409390	1 1/4"	Rugged construction, painted, with standard pipe thread. An ideal choice for the protection of your pump, Designed with a maximum "open" area for continuous flow.
78715	STR-1 1/2	409340	1 1/2"	
78716	STR-2	409350	2"	
78717	STR-3	409360	3"	
78718	STR-4	409370	4"	



**PLASTIC SUCTION STRAINER**

PART NO	REPLACES	PIPE SIZE	MIN. WELL DIA.
78704	627815	1 1/2"	2"
78705	627825	2"	2 1/2"



**PLASTIC SUCTION STRAINER**

PART NO	HOSE SIZE
78412	2"
78413	3"

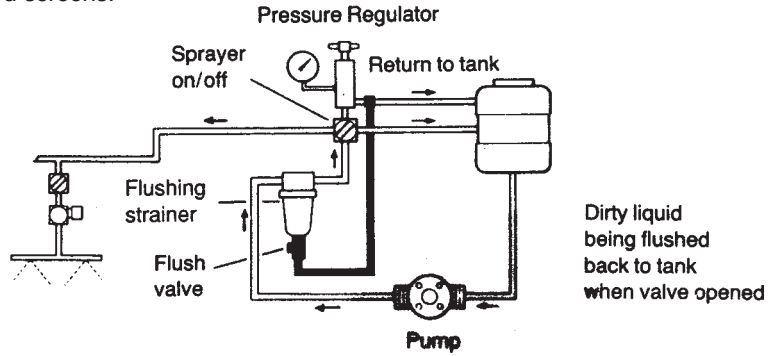


## Hypro Lurmark Flushing Strainers

The Flushing Strainer helps you avoid blockages and save time. It can be fitted to all leading makes of crop sprayers.

- Saves removing the element for daily cleaning.
- Can be connected to existing sprayer with sediment flushed back to tank.
- Available in 1 1/4" and 1 1/2" sizes.
- Choice of 50 mesh, 80 mesh or 100 mesh color-coded screens.

Part Number	Polypropylene Flushing Filter
77231	1 1/4" ports: 50# element Blue
77232	1 1/4" ports: 80# element Red
77230	1 1/4" ports: 100# element Green
77234	1 1/2" ports: 50# element Blue
77235	1 1/2" ports: 80# element Red
77233	1 1/2" ports: 100# element Green

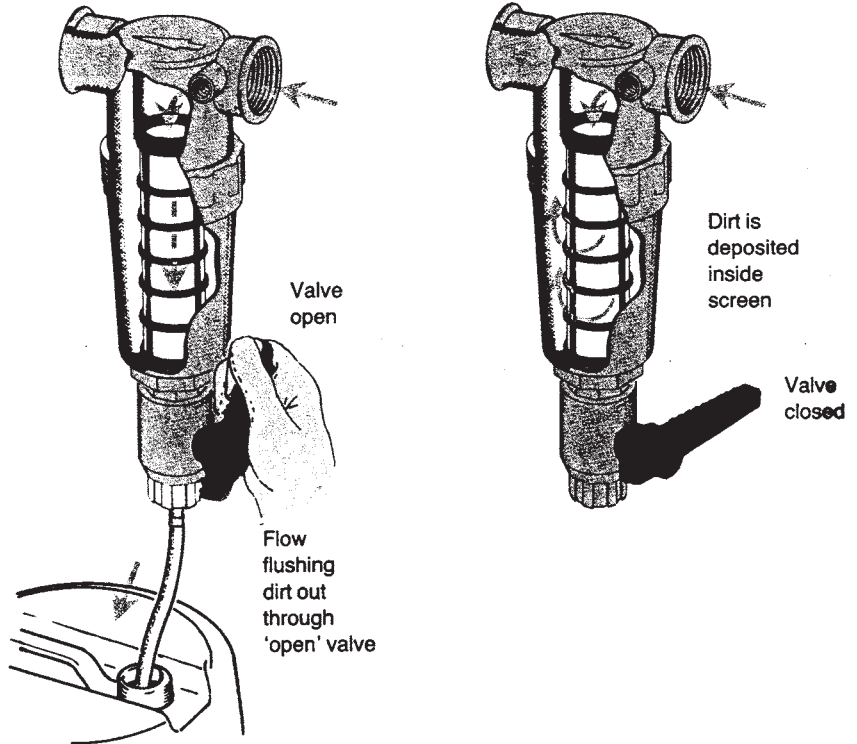


Flush valve linked into sprayer with sediment flushed back to tank - or can be directed to suitable receptacle via a hose.

### HOW IT WORKS

FLUSHING MODE:  
VALVE OPEN

FILTERING MODE:  
VALVE CLOSED



# MANIFOLD STRAINERS

## T Line Strainers



**FEATURES**

- EPDM gaskets.
- 316 stainless steel screens.
- 150 PSI maximum.



1" MANIFOLD T LINE STRAINERS			
PART NO.	REPLACES	DESCRIPTION	MAX PSI
SPP 76424	MLST100-16	1" Manifold T Strainer w/16 Mesh Screen	150
SPP 76436	MLST100-30	1" Manifold T Strainer w/30 Mesh Screen	150
SPP 76437	MLST100-50	1" Manifold T Strainer w/50 Mesh Screen	150
SPP 76438	MLST100-80	1" Manifold T Strainer w/80 Mesh Screen	150
MLST100-100	MLST100-100	1" Manifold T Strainer w/100 Mesh Screen	150

2" MANIFOLD T LINE STRAINERS			
PART NO.	REPLACES	DESCRIPTION	MAX PSI
SPP 76442	MLST150-16	2" Manifold T Strainer w/16 Mesh Screen	150
SPP 76443	MLST150-30	2" Manifold T Strainer w/30 Mesh Screen	150
SPP 76444	MLST150-50	2" Manifold T Strainer w/50 Mesh Screen	150
SPP 76454	MLST150-80	2" Manifold T Strainer w/80 Mesh Screen	150
SPP 76455	MLST150-100	2" Manifold T Strainer w/100 Mesh Screen	150

## Y Line Strainers



**FEATURES**

- EPDM gaskets.
- 316 stainless steel screens.
- 75 PSI maximum.



1" MANIFOLD Y LINE STRAINERS			
PART NO.	REPLACES	DESCRIPTION	MAX PSI
MLS100-20	MLS100-20	1" Manifold Y Strainer w/20 Mesh Screen	75
MLS100-40	MSL100-40	1" Manifold Y Strainer w/40 Mesh Screen	75
MLS100-50	MLS100-50	1" Manifold Y Strainer w/50 Mesh Screen	75
MLS100-80	MLS100-80	1" Manifold Y Strainer w/80 Mesh Screen	75

2" MANIFOLD Y LINE STRAINERS			
PART NO.	REPLACES	DESCRIPTION	MAX PSI
MLS200BC	MLS200BC	2" Flanged Body & Cap	150
SPP 77789	MLS200-06	2" Manifold Y Strainer w/6 Mesh Screen	150
MLS200-12	MLS200-12	2" Manifold Y Strainer w/12 Mesh Screen	150
SPP 76415	MLS200-20	2" Manifold Y Strainer w/20 Mesh Screen	150
SPP 76416	MLS200-30	2" Manifold Y Strainer w/30 Mesh Screen	150
SPP 76417	MLS200-50	2" Manifold Y Strainer w/50 Mesh Screen	150
SPP 76418	MLS200-80	2" Manifold Y Strainer w/80 Mesh Screen	150
SPP 77490	MLS200-100	2" Manifold Y Strainer w/100 Mesh Screen	150
SPP 76419	MLS200-120	2" Manifold Y Strainer w/120 Mesh Screen	150



**I N D E X**

**ADAPTERS**

Boom X Tender ..... 3-48, 4-33  
 Combo-Jet ..... 4-11,4-15 to 4-18  
 Delavan ..... 4-45  
 Hypro Lurmark ..... 4-25  
 Lurmark ..... 4-25  
 Miscellaneous ..... 4-37  
 Quick TeeJet ..... 4-41 to 4-43  
 TeeJet ..... 4-41 to 4-43  
 Wilger ..... 4-11,4-15 to 4-18

**CAPS (TIP)**

Combo-Jet ..... 3-37 to 3-42, 4-17  
 Delavan ..... 4-29  
 Hypro Lurmark ..... 4-25, 4-26  
 Lurmark ..... 4-25, 4-26  
 Miscellaneous ..... 4-36  
 Quick TeeJet ..... 4-9, 4-10  
 TeeJet ..... 4-9, 4-10  
 Wilger ..... 3-37 to 3-42, 4-17

**CHECK VALVES**

Delavan ..... 4-28, 4-46  
 Quick TeeJet ..... 4-42  
 TeeJet ..... 4-42

**CLAMPS**

..... 4-1, 4-5, 4-10, 4-18, 4-25, 4-26, 4-37, 4-38

**COLUMN FLOW INDICATORS**

Wilger ..... 4-39, 4-40  
 Combo-Jet Nozzle Components ..... 4-11 to 4-24

**COMBO-RATE (WILGER)** ..... 4-22 to 4-24

**DIAPHRAGM CHECK VALVES**

Delavan ..... 4-28, 4-46  
 Quick TeeJet ..... 4-42  
 TeeJet ..... 4-42

**DRY BOOM NOZZLE BODIES**

Arag ..... 4-30, 4-31  
 Combo-Jet ..... 4-11 to 4-14  
 Delavan ..... 4-27  
 Hypro Arag ..... 4-30, 4-31  
 Lurmark ..... 4-26  
 Miscellaneous ..... 4-36  
 Quick TeeJet ..... 4-1 to 4-5  
 TeeJet ..... 4-1 to 4-5  
 Wilger ..... 4-11 to 4-14

**FERTILIZER NOZZLE BODIES TEEJET**

..... 4-1, 4-6

**FLAT SEAT INSERTS**

..... 4-36

**FLOW INDICATORS**

Wilger ..... 4-39, 4-40

**HOSE DROPS**

TeeJet ..... 4-44  
 Quick TeeJet ..... 4-44  
 Combo-Jet ..... 4-18

**MISCELLANEOUS NOZZLE BODY ASSY'S & PARTS**

..... 4-35 to 4-38

**NOZZLE MONITORS**

Wilger ..... 4-39, 4-40

**NOZZLE BODY CAPS**

Combo-Jet ..... 3-37 to 3-42, 4-17  
 Delavan ..... 4-29  
 Hypro Lurmark ..... 4-25, 4-26  
 Lurmark ..... 4-25, 4-26  
 Miscellaneous ..... 4-36  
 Quick TeeJet ..... 4-9, 4-10  
 TeeJet ..... 4-9, 4-10  
 Wilger ..... 3-37 to 3-42, 4-17

**NOZZLE BODY CLAMPS**

..... 4-1, 4-5, 4-10, 4-18, 4-25, 4-26, 4-37, 4-38

**NOZZLE BODIES DRY BOOM**

Arag ..... 4-30, 4-31  
 Combo-Jet ..... 4-11 to 4-14  
 Delavan ..... 4-27  
 Hypro Arag ..... 4-30, 4-31  
 Hypro Lurmark ..... 4-26  
 Lurmark ..... 4-26  
 Miscellaneous ..... 4-36  
 Quick TeeJet ..... 4-1 to 4-5  
 TeeJet ..... 4-1 to 4-5  
 Wilger ..... 4-11 to 4-14



**I N D E X**

**NOZZLE BODIES WET BOOM**

Arag ..... 4-32, 4-33  
 Combo-Jet ..... 4-15, 4-16, 4-21  
 Delavan ..... 4-28  
 Hypro Arag ..... 4-32, 4-33  
 Hypro Lurmark ..... 4-25  
 Lurmark ..... 4-25  
 Miscellaneous ..... 4-35  
 Quick TeeJet ..... 4-6 to 4-8  
 Swivel-Jet (Wilger) ..... 4-16, 4-21  
 TeeJet ..... 4-6 to 4-8  
 Wilger ..... 4-15, 4-16, 4-21

**RETRO FIT ADAPTERS**

Combo-Jet ..... 4-11, 4-15 to 4-18  
 Delavan ..... 4-45  
 Hypro Lurmark ..... 4-25  
 Lurmark ..... 4-25  
 Miscellaneous ..... 4-37  
 Quick TeeJet ..... 4-41 to 4-43  
 TeeJet ..... 4-41 to 4-43  
 Wilger ..... 4-11, 4-15 to 4-18

**SWIVEL NOZZLE BODIES**

Combo-Jet ..... 4-48  
 Delavan ..... 4-47  
 Quick TeeJet ..... 4-44  
 TeeJet ..... 4-44  
 Wilger ..... 4-48

**TIP BLANKS**

..... 4-36

**TIP CAPS**

..... 4-36

**TIP PLUGS**

..... 4-36

**TWIN CAP**

..... 4-26

**WET BOOM NOZZLE BODIES**

Arag ..... 4-32, 4-33  
 Combo-Jet ..... 4-15, 4-16, 4-21  
 Delavan ..... 4-28  
 Hypro Arag ..... 4-32, 4-33  
 Hypro Lurmark ..... 4-25  
 Lurmark ..... 4-25  
 Miscellaneous ..... 4-35  
 Quick TeeJet ..... 4-6 to 4-8

**WET BOOM NOZZLE BODIES (CONTINUED)**

Swivel-Jet (Wilger) ..... 4-16, 4-21  
 TeeJet ..... 4-6 to 4-8  
 Wilger ..... 4-15, 4-16, 4-21

**WILGER COMBO-RATE**

..... 4-22 to 4-24

**Quick TeeJet Multiple Nozzle Bodies with Fertilizer Outlet for Dry Boom**



**FEATURES:**

- Single Fertilizer nozzle outlet with shutoff cap and either 3, 4, or 5 spray positions for easy change of spray tips or quick boom flushing
- Positive shutoff between each position
- Automatic self-alignment with flat fan spray patterns
- Flow rate pressure drop of 5 PSI (0.34 bar) for 2.25 GPM (8.5 l/min) through turret and 3.4 GPM (12.9 l/min) through fertilizer outlet.
- Maximum pressure of 300 PSI (20 bar)
- Available in 1" single or double hose shanks.
- Includes ChemSaver<sup>®</sup> diaphragm check valve for drip free shutoff. Standard diaphragm opens at 10 PSI (0.7 bar).
- Standard O-Rings and diaphragm made of EPDM

**SEE PAGE 4-2 FOR PARTS BREAKDOWN**

Part Number	Replaces	No. of Spray Outlets
75657	QJ363F-1000-1-NYB	3 single
75658	QJ363F-1000-2-NYB	3 double
75659	QJ364F-1000-1-NYB	4 single
75677	QJ364F-1000-2-NYB	4 double
75678	QJ365F-1000-1-NYB	5 single
75679	QJ365F-1000-2-NYB	5 double
To fit 1" Hose ID		



**Vari-Spacing Clamps**

**VARI-SPACING CLAMPS FOR USE ON ALL DRY BOOM QUICK TEEJET BODIES**



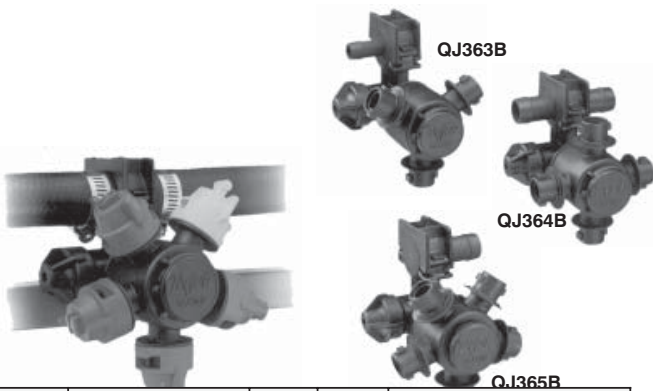
Part Number	Replaces	To Fit
73008	QJ111- 1/2	1/2" Pipe (13/16" & 7/8" O.D. Tubings)
72433	QJ111- 3/4	3/4" Pipe (1" & 1 1/16" O.D. Tubings)
72434	QJ111-1	1" Pipe (1 1/8", 1 1/4" & 1 3/8" O.D. Tubings)
72344	QJ111- 1 1/4	1 1/4" Pipe (1 9/16" & 1 11/16" O.D. Tubings)
75685	QJ111HP- 3/4	3/4" Pipe (1" & 1 1/16" O.D. Tubings)
79267		1 1/2" R.D. for Spray Coupe
73009	QJ111SQ- 3/4	3/4" Square Tubing
72435	QJ111SQ-1	1" Square Tubing
72436	QJ111SQ-1 1/4	1 1/4" Square Tubing
72437	QJ111SQ-1 1/2	1 1/2" Square Tubing



**Quick TeeJet Multiple Nozzle Bodies & Assemblies**

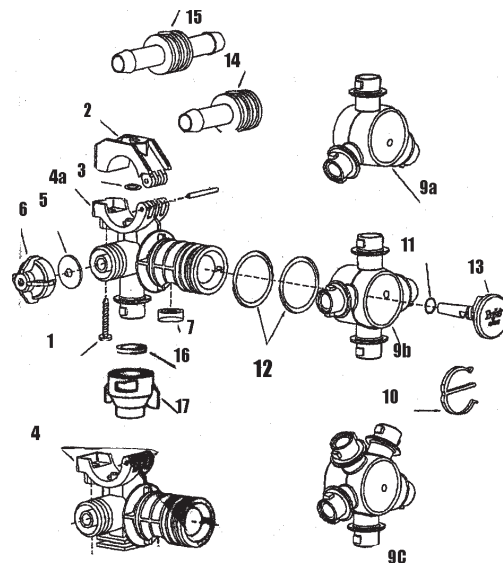
**QJ360B NOZZLE BODY SERIES  
 FOR DRY BOOMS**

- Available with either 3, 4 or 5 spray positions for easy change of spray tips or quick boom flushing
- Positive shut-off between each spray position
- Maximum operating pressure of 300 PSI (20 bar)
- Available in 1/2", 3/4" or 1" single or double hose shanks
- Includes ChemSaver diaphragm check valve for drip-free shutoff
- Durable design mounts body high on boom structure for maximum protection
- Standard EPDM diaphragm



Part Number	Replaces	No. of Spray Outlets	To fit Hose ID	Description
72369	QJ363B-500-1-NYB	3	1/2"	Single Hose shank elbow
72370	QJ363B-750-1-NYB	3	3/4"	Single Hose shank elbow
72371	QJ363B-1000-1-NYB	3	1"	Single Hose shank elbow
72360	QJ363B-500-2-NYB	3	1/2"	Double Hose shank tee
72361	QJ363B-750-2-NYB	3	3/4"	Double Hose shank tee
72362	QJ363B-1000-2-NYB	3	1"	Double hose shank tee
72372	QJ364B-500-1-NYB	4	1/2"	Single hose shank elbow
72373	QJ364B-750-1-NYB	4	3/4"	Single hose shank elbow
72374	QJ364B-1000-1-NYB	4	1"	Single hose shank elbow
72363	QJ364B-500-2-NYB	4	1/2"	Double hose shank tee
72364	QJ364B-750-2-NYB	4	3/4"	Double hose shank tee
72365	QJ364B-1000-2-NYB	4	1"	Double hose shank tee
72375	QJ365B-500-1-NYB	5	1/2"	Single hose shank elbow
72376	QJ365B-750-1-NYB	5	3/4"	Single hose shank elbow
72377	QJ365B-1000-1-NYB	5	1"	Single hose shank elbow
72366	QJ365B-500-2-NYB	5	1/2"	Double hose shank tee
72367	QJ365B-750-2-NYB	5	3/4"	Double hose shank tee
72368	QJ365B-1000-2-NYB	5	1"	Double hose shank tee

Reference Number	Part Number	Replaces	Description
1	72460	CP48255-1-1/4-302SS	SS screw
2	75725	CP48221-NYB	3/4" upper clamp (B series)
2	75726	CP48222-NYB	1" upper clamp (F series)
1,2,3,4	72392	48259-3/4-NTB	3/4" QJ sub assembly c/w pin for B series
1,2,3,4a	75688	50102-1-NYB	QJ Sub assembly c/w pin for F series
3*	72322	CP7717-2/110-BU	Buna O-Ring
3**	72461	CP7717-2/110-VI	Viton O-Ring
5*	72415	CP21953-EPR	Diaphragm EPDM
5**	72416	CP21953-VI	Diaphragm Viton
6	72414	21950-10-NYB	ChemSaver end cap
7	72390	CP38943-1-VI-TFE	Seal Viton
9a	72326	CP38921-1-NYB	Turret 3 outlets
9b	72327	CP38922-1-NYB	Turret 4 outlets
9c	72328	CP38923-1-NYB	Turret 5 outlets
10	72329	CP38931-NYB	E clip
11*	72330	CP7717-2-13EPR	O-Ring EPDM
11**	72462	CP7717-213-VI	Viton O-Ring
12*	75686	CP7717-M28x3-EPRTFE	O-Ring EPDM (2 required)
12**	75687	CP7717-M28x3-VITFE	O-Ring Viton (2 required)
13	72332	CP38930-NYB	Plug
14	72333	CP38936-NYB	1/2" single hose shank, nylon (black) (B series)
14	72334	CP38938-NYB	3/4" single hose shank, nylon (black) (B series)
14	72335	CP38940-NYB	1" single hose shank, nylon (black) (B series)
14	75689	CP50104-NYB	1" single hose barb (F series)
15	72336	CP38937-NYB	1/2" double hose shank, nylon (black) (B series)
15	72337	CP38939-NYB	3/4" double hose shank, nylon (black) (B series)
15	72338	CP38941-NYB	1" double hose shank, nylon (B series)
15	73002	CP38948-NYB	1/2" NPT x 3/4" hose shank, nylon black (B series)
15	75696	CP50114-NYB	1" double hose barb (F series)
16	72449	CP19438-EPR	Gasket EPDM
16	72450	CP19438-VI	Gasket Viton
17	75697	CP25606-1-NY	QJ Shutoff Cap
KIT	73003	PKABQJ360-KIT	All items marked * Repair Kit
KIT	73004	PKABQJ360-KITVI	All items marked ** Repair Kit



**FOR QUICKJET CAPS  
 SEE PAGE 4-9  
 FOR COMBO-JET TIPS & CAPS USE 72134 ADAPTER  
 FOR COMBO-JET TIP CAP SCREEN COMBINATION SEE  
 PAGE 3-37 THROUGH 3-42**

**Quick TeeJet Multiple Nozzle Bodies & Assemblies for Dry Booms**



**TRIPLE NOZZLE BODY**

- Designed to greatly simplify changing spray tips in the field
- Provides three spray positions for easy change of spray tips or quick boom flushing
- Positive shutoff between each spray position
- Includes ChemSaver diaphragm check valve for drip-free shutoff
- Standard EPDM diaphragm
- Can be used with all Quick TeeJet caps
- Nylon body
- Maximum operating pressure of 125 PSI (9 bar)
- Available in 1/2" and 3/4" single or double hose shanks

**SEE PAGE 4-4 FOR PARTS BREAKDOWN**

PART NO.	REPLACES	DESCRIPTION
72340	24230A-1-540-NYB	Triple body single hose barb 1/2" elbow
72341	24230A-2-540-NYB	Triple body double hose barb 1/2" tee
72342	24230A-1-785-NYB	Triple body single hose barb 3/4" elbow
72343	24230A-2-785-NYB	Triple body double hose barb 3/4" tee



**QJ200 SERIES DIAPHRAGM CHECK VALVE QUICK TEEJET NOZZLE ASSEMBLIES**

- Drip-free shutoff
- Opening pressure 10 PSI (0.7 bar)
- Standard diaphragm is EPDM
- Max. operating pressure - 125 PSI (9 bar)

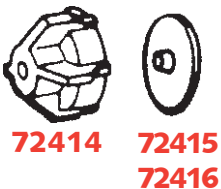
PART NO.	REPLACES	DESCRIPTION
75714	19349-211-406-NYB	Single 3/8" hose shank w/diaphragm check valve elbow
72423	19349-211-540-NYB	Single 1/2" hose shank w/diaphragm check valve elbow
72424	19349-211-785-NYB	Single 3/4" hose shank w/diaphragm check valve elbow
75717	19350-212-406-NYB	Double 3/8" hose shank w/diaphragm check valve tee
72425	19350-212-540-NYB	Double 1/2" hose shank w/diaphragm check valve tee
72426	19350-212-785-NYB	Double 3/4" hose shank w/diaphragm check valve tee
72446	19351-213-406-NYB	Triple 3/8" hose shand w/diaphragm check valve cross
72427	19351-213-540-NYB	Triple 1/2" hose shank w/diaphragm check valve cross
72428	19351-213-785-NYB	Triple 3/4" hose shank w/diaphragm check valve cross



**QJ300 SERIES DIAPHRAGM CHECK VALVE QUICK TEEJET NOZZLE ASSEMBLIES**

Low profile design allows maximum protection against damage. Available with single and double hose shanks for 3/8", 1/2" and 3/4" ID hose. Drip-free shutoff. Opens at 10 psi (0.7 bar). Standard diaphragm is EPDM. Maximum operating pressure is 300 PSI (20 bar)

PART NO.	REPLACES	DESCRIPTION
72394	22251-311-375-NYB	Single 3/8" hose shank w/diaphragm check valve elbow
72429	22251-311-500-NYB	Single 1/2" hose shank w/diaphragm check valve elbow
72430	22251-311-750-NYB	Single 3/4" hose shank w/diaphragm check valve elbow
72452	22252-312-375-NYB	Double 3/8" hose shank w/diaphragm check valve tee
72431	22252-312-500-NYB	Double 1/2" hose shank w/diaphragm check valve tee
72432	22252-312-750-NYB	Double 3/4" hose shank w/diaphragm check valve tee

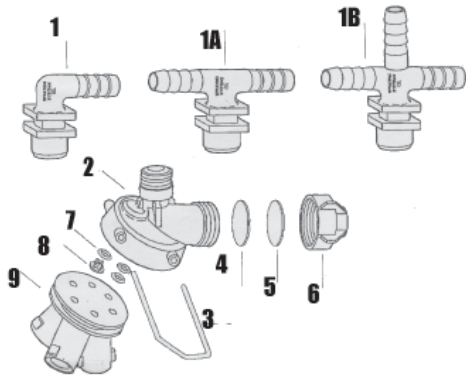


**72414 72415**  
**72416**

PART NO.	REPLACES	DESCRIPTION
72414	21950-10-NYB	ChemSaver end cap
72415	CP21953-EPR	Diaphragm, EPDM rubber
72416	CP21953-VI	Diaphragm, Viton
72410	CP6227-TEF	Diaphragm, Teflon

**FOR QUICKJET CAPS SEE PAGE 4-9**  
**FOR VARI-SPACING CLAMPS SEE PAGE 4-1**  
**FOR COMBO-JET TIPS & CAPS USE 72134 ADAPTER**  
**FOR COMBO-JET TIP CAP SCREEN COMBINATION SEE PAGE 3-37 THROUGH 3-42**

**Parts Breakdown of 24230A Series**



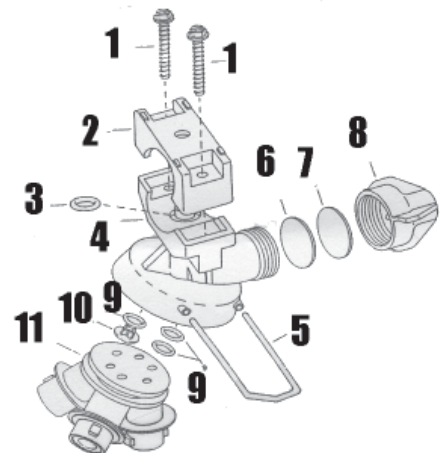
Item	Part Number	Replaces	Description
1	72739	18645-NYB-540	Single hose shank 1/2" nylon (black)
	77830	18724-NYB-785	Single hose shank 3/4" nylon (black)
1A	75699	18646-NYB-540	Double hose shank 1/2" nylon (black)
	77990	18725-NYB-785	Double hose shank 3/4" nylon (black)
1B	75706	18647-NYB-540	Triple Hose shank 1/2" nylon (black)
	75707	18726-NYB-785	Triple hose shank 3/4" nylon (black)
2	75708	CP24232-NYB	Main body nylon (black)
3	75709	CP24221-304SS	Clip type 304 stainless steel
4	72410	CP6227-TEF*	Diaphragm teflon (optional)
5	72415	CP21953-EPR	Diaphragm EPDM rubber
6	72414	21950-10-NYB	Chemsaverfi end cap assembly nylon (black)
7	78391	CP7717-2/109-EPR	O-Ring EPDM rubber (3 required)
8	75713	CP24224-CE	Indexing button acetal (gray)
9	77987	24217-1-CE	Triple QT body indexing plate, acetal (black)
	78450	24231A-NYB	Body Sub Assy Items 2 through 9

\*When the #CP6227-TEF teflon diaphragm is used, it is placed in the assembly in front of the #21953-EPR rubber diaphragm.

**Parts Breakdown of 24216A Series**



Reference	Part Number	Description
1	72320	Screw
2	77842	Clamp 1/2"
2	72944	Clamp 3/4"
2	72943	Clamp 1"
3	78391	O-Ring, buna
4	75787	Body 1/2"
4	75788	Body 3/4"
4	78388	Body 1"
5	75709	Clip
6	72410	Diaphragm, Teflon*
7	72415	Diaphragm, EPDM
7	72416	Diaphragm, Citon*
8	72414	Cap 10 PSI
9	78391	O-Ring EPDM (3 required)
10	75713	Indexing Button
11	77987	Indexing Plate



**Quick TeeJet Multiple Nozzle Bodies & Assemblies for Dry Booms**



**QJ100 SERIES QUICK TEEJET NOZZLE ASSEMBLIES**

Hose barb sizes for 3/8", 1/2" or 3/4" ID hose. Available in single, double or triple hose shanks. Max operating pressure - 125 PSI (9 bar).

PART NO.	REPLACES	DESCRIPTION
72580	18635-111-406-NYB	Single 3/8" hose shank Quick TeeJet nozzle body elbow
72417	18638-111-540-NYB	Single 1/2" hose shank Quick TeeJet nozzle body elbow
72418	18719-111-785-NYB	Single 3/4" hose shank Quick TeeJet nozzle body elbow
72593	18636-112-406-NYB	Double 3/8" hose shank Quick TeeJet nozzle body tee
72419	18636-112-540-NYB	Double 1/2" hose shank Quick TeeJet nozzle body tee
72420	18720-112-785-NYB	Double 3/4" hose shank Quick TeeJet nozzle body tee
75718	18637-113-406-NYB	Triple 3/8" hose shank Quick TeeJet nozzle body cross
72421	18640-113-540-NYB	Triple 1/2" hose shank Quick TeeJet nozzle body cross
72422	18721-113-785-NYB	Triple 3/4" hose shank Quick TeeJet nozzle body cross

**QJ39685 SERIES QUICK TEEJET NOZZLE BODIES**

**Features**

- Use with Quick TeeJet caps
- Hose shanks available in double or single (left or right) for 1/2" hose ID

- TeeJet ChemSaver drip-free shutoff
  - Made of corrosion-resistant materials
  - Maximum operating pressure 300 PSI (20 bar)
- Note: Support is supplied by customer



SPP 72453  
Single Left  
QJ39685-1L-500-NYB



SPP 72455  
Double  
QJ39685-2-500-NYB



SPP 72454  
Single Right  
QJ39685-1R-500-NYB

**CLAMP ASSEMBLIES FOR QJ39685 SERIES**

Consist of upper and lower clamps and bolt for use with hose shank nozzle bodies



AA111



AA111SQ

PART NO.	REPLACES	DESCRIPTION
72463	AA111-1/2	1/2" pipe (13/16" & 7/8" OD tubing)
72240	AA111-3/4	3/4" pipe (1" & 1 1/16" OD tubing)
72241	AA111-1	1" pipe (1 1/8", 1 1/4" & 1 3/8" OD tubing)
72456	AA111-1 1/4	1 1/4" pipe (1 9/16" & 1 11/16" OD tubing)

PART NO.	REPLACES	DESCRIPTION
72242	AA111SQ-1	1" square tubing
72457	AA111SQ-1 1/4	1 1/4" square tubing
72459	AA111SQ-1 1/2	1 1/2" square tubing

## Quick TeeJet Multiple Nozzle Bodies with Fertilizer Outlet for Wet Boom

### FEATURES:

- Single Fertilizer Nozzle outlet with shutoff cap and either 3, 4, or 5 spray positions for easy change of spray tips or quick boom flushing
- Positive shutoff between each position
- Automatic self-alignment with flat fan spray patterns
- Flow rate: 2.25 GPM (8.5 l/min) with 5 PSI (0.34 bar) pressure drop through turret and 3.4 GPM (12.9l/min) through fertilizer outlet
- Maximum pressure of 300 PSI (20 bar)
- Available in 1" pipe connections and mounts with a 3/8" (9.5 mm) hole drilled in pipe or tubing
- Includes ChemSaver® diaphragm check valve for drip free shutoff Standard diaphragm opens at 10 PSI (0.7 bar)
- Standard O-Rings and diaphragm made of EPDM
- Hinged upper clamp reduces assembly time and fits inside common boom channels



Part Number	Replaces	Number of Spray Outlets	To Clamp On
75719	QJ363F-1-NYB	3	1" Pipe
75722	QJ364F-1-NYB	4	1" Pipe
75723	QJ365F-1-NYB	5	1" Pipe



**PARTS BREAKDOWN SEE PAGE 4-7**



**Quick TeeJet Multiple Nozzle Bodies & Assemblies**

**QJ360B NOZZLE BODY SERIES FOR WET BOOMS**

- Available with either 3, 4 or 5 spray positions for easy change of spray tips or quick boom flushing
- Positive shut-off between each spray position
- Maximum operating pressure of 300 PSI (20 bar).
- Available in 20 mm, 3/4" or 1" pipe connections
- Includes ChemSaver diaphragm check valve for drip-free shut-off
- Standard EPDM diaphragm
- 3/4" size easily converted to dry boom configuration



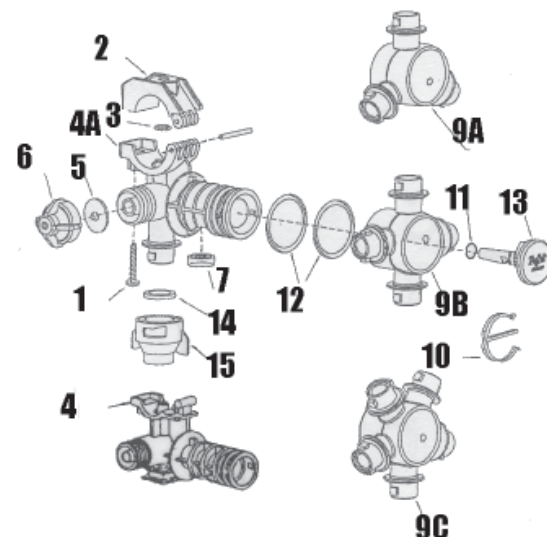
PART NO.	REPLACES	NO OF SPRAY OUTLETS	TO CLAMP ON
72378	QJ363B-20mm-NYB	3	20mm pipe
72379	QJ363B-3/4-NYB	3	3/4" pipe
72380	QJ363B-1-NYB	3	1" pipe
72381	QJ364B-20mm-NYB	4	20mm pipe
72382	QJ364B-3/4-NYB	4	3/4" pipe
72383	QJ364B-1-NYB	4	1" pipe
72384	QJ365B-20mm-NYB	5	20mm pipe
72385	QJ365B-3/4-NYB	5	3/4" pipe
72386	QJ365B-1-NYB	5	1" pipe

REF	PART NO.	REPLACES	DESCRIPTION
1	72460	CP4825-11/4-302SS	SS screw
1,2,3,4A	75688	50102-1-NYB	QJ sub assembly c/w pin F Series
1,2,3,4	72391	48259-20mm-NYB	20 mm QJ sub assembly w/pin B Series
1,2,3,4	72392	48259-3/4-NYB	3/4 QJ sub assembly w/pin B Series
1,2,3,4	72393	48259-1-NYB	1 QJ sub assembly w/pin B Series
2	75724	CP48220-NYB	20 mm upper clamp B Series
2	75725	CP48221-NYB	3/4" upper clamp B Series
2	75726	CP48222-NYB	1" upper clamp B & F Series
3*	72322	CP7717-2/110BU	Buna O-Ring
3**	72461	CP7717-2/110VI	Viton O-Ring
5*	72415	CP21953-EPR	EPDM diaphragm
5**	72416	CP21953-VI	Viton diaphragm
6	72414	21950-10-NYB	ChemSaver end cap
7	72390	CP38943-1-VI TFE	Viton seal
9A	72326	CP38921-1-NYB	Turret 3 outlets
9B	72327	CP38922-1-NYB	Turret 4 outlets
9C	72328	CP38923-1-NYB	Turret 5 outlets
10	72329	CP38931-NYB	E clip
11*	72330	CP7717-2-13EPR	EPDM O-Ring
11**	72462	CP7717-2-13VI	Viton O-Ring
12*	75686	CP7717-M28x3-EPRTFE	O-Ring (2 Req'd)
12**	75687	CP7717-M28x3-VITFE	O-Ring Viton (2 Req'd)
13	72332	CP38930-NYB	Plug
14	72449	CP19438-EPR	Gasket EPDM
14	72450	CP19438-VI	Gasket Viton
15	75697	CP25606-1-NY	QJ Shutoff Cap
KIT	73003	PKABQJ360-KIT	All items marked with * Repair Kit
KIT	73004	PKABQJ360-KITVI	All items marked with ** Repair Kit

QJ363B

QJ364B

QJ365B



For QuickJet caps see page 4-9

For Combo-Jet tips & caps use 72134 adapter

For Combo-Jet tip cap screen combination see page 3-37 through 3-42

## Quick TeeJet Multiple Nozzle Bodies & Assemblies for Wet Booms



### TYPE 24216A-NYB

- Can be mounted to 1/2", 3/4" or 1" pipe or equivalent size tubing
- Provides three spray positions for easy change of spray tips
- Shutoff position provided between each spray position
- Features ChemSaver drip-free shutoff. Requires 10 psi (0.7 bar) at the nozzle to open check valve
- Standard diaphragm of EPDM
- Maximum operating pressure of 150 PSI (10 bar)
- 1/2" and 3/4" sizes include mounting hole in upper clamp subassembly for attachment to flat surfaces

PART NO.	REPLACES	DESCRIPTION
73005	24216A-1/2NYB	Triple nozzle assy w/o caps & tips 1/2" pipe
72347	24216A-3/4-NYB	Triple nozzle assy w/o caps & tips 3/4" pipe
72348	24216A-1-NYB	Triple nozzle assy w/o caps & tips 1" pipe

**FOR PARTS  
BREAKDOWN SEE  
PAGE 4-4**

### TYPE QJ22187-NYB

- Can be mounted to 1/2", 3/4" or 1" pipe or equivalent size tubing
- 1/2" and 3/4" sizes include a mounting hole in clamp subassembly for mounting to flat surfaces
- Allows side mounting to flat surface for protection of nozzle
- Features ChemSaver drip-free shutoff. Requires 10 PSI (0.7 bar) at the nozzle to open check valve
- Standard diaphragm of EPDM
- Maximum operating pressure of 300 PSI (20 bar)

PART NO.	REPLACES	DESCRIPTION
73006	QJ22187-1/2-NYB	Split eyelet wet boom assy w/o cap & tip 1/2" pipe
72345	QJ22187-3/4-NYB	Split eyelet wet boom assy w/o cap & tip 3/4" pipe
72346	QJ22187-1-NYB	Split eyelet wet boom assy w/o cap & tip 1" pipe

### TYPE QJ17560-NYB

- Can be mounted to 1/2", 3/4" or 1" pipe or equivalent size tubing
- Features ChemSaver drip-free shutoff. Requires 10 PSI (0.7 bar) at the nozzle to open check valve
- Standard diaphragm of EPDM
- Maximum operating pressure of 300 PSI (20 bar)
- 1/2" and 3/4" sizes include a mounting hole in upper clamp subassembly for mounting to flat surfaces

PART NO.	REPLACES	DESCRIPTION
72451	QJ17560-1/2-NYB	Split eyelet wet boom diaphragm assy w/o cap & tip, to fit 1/2" pipe
72438	QJ17560-3/4-NYB	Split eyelet wet boom diaphragm assy w/o cap & tip, to fit 3/4" pipe
72439	QJ17560-1-NYB	Split eyelet wet boom diaphragm assy w/o cap & tip, to fit 1" pipe
73117	QJ17560A-1/2-NYB	Same as 72451 but hinged
73118	QJ17560A-3/4-NYB	Same as 72438 but hinged
73119	QJ17560A-1-NYB	Same as 72439 but hinged

### TYPE QJ7421-NYB

- Can be mounted to 1/2", 3/4" or 1" pipe or equivalent size tubing
- Maximum operating pressure of 300 PSI (20 bar)
- 1/2" and 3/4" sizes include a mounting hole in upper clamp subassembly for mounting to flat surfaces.

PART NO.	REPLACES	DESCRIPTION
73007	QJ7421-1/2-NYB	Split eyelet wet boom assy w/o cap & tip 1/2" pipe
72440	QJ7421-3/4-NYB	Split eyelet wet boom assy w/o cap & tip 3/4" pipe
72441	QJ7421-1-NYB	Split eyelet wet boom assy w/o cap & tip 1" pipe



**QJ17560**

**QJ17560A**

### REPLACEMENT PARTS

PART NO.	REPLACES	DESCRIPTION
72414	21950-10-NYB	ChemSaver end cap
72415	CP21953-EPR	Diaphragm, EPDM rubber
72416	CP21953-VI	Diaphragm, Vtion
72410	CP6227-TEF	Diaphragm, Teflon
72322	CP7717-2/110-BU	O-Ring
77842	CP24226-NYB	Upper clamp for 1/2" (2 bolt)
72944	CP24222-NYB	Upper clamp for 3/4" (2 bolt)

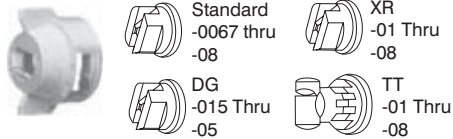
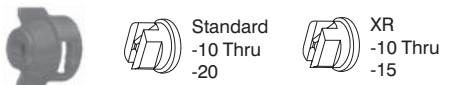
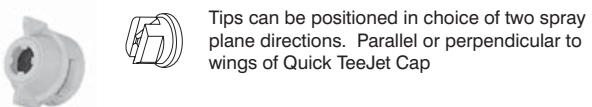
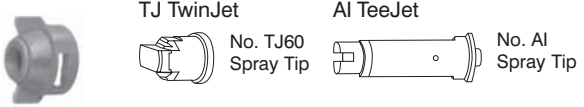
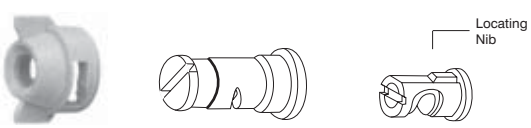
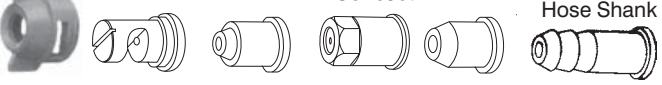
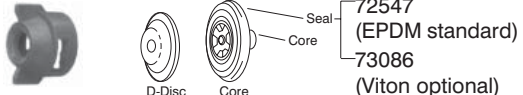
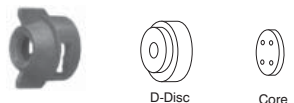


### REPLACEMENT PARTS

PART NO.	REPLACES	DESCRIPTION
72943	CP17553-PPB	Upper clamp for 1" (2 bolt)
75253	CP48223-NYB	Upper clamp 1/2" hinged
75725	CP48221-NYB	Upper clamp 3/4" hinged
75726	CP48222-NYB	Upper clamp 1" hinged






**Quick TeeJet Caps**

The Quick TeeJet caps are designed with grooves that fit locating lugs on the nozzle body. Caps are made of nylon and are available for use with all TeeJet spray tips. Maximum operating pressure of 300 PSI (20 bar).

PART NO.	REPLACES	DESCRIPTION	
72561 72562 72563 72564 72565 72566 72567 72568	CP25611-1-NY CP25611-2-NY CP25611-3-NY CP25611-4-NY CP25611-5-NY CP25611-6-NY CP25611-7-NY CP25611-8-NY	Black cap only for flat fan tip smaller than 10 White cap only for flat fan tip smaller than 10 Red cap only for flat fan tip smaller than 10 Blue cap only for flat fan tip smaller than 10 Green cap only for flat fan tip smaller than 10 Yellow cap only for flat fan tip smaller than 10 Brown cap only for flat fan tip smaller than 10 Orange cap only for flat fan tip smaller than 10	TeeJet Flat Spray Tips (Smaller Capacities) 
72571 72572 72573 72574 72575 72576 72577 72578	CP25609-1-NY CP25609-2-NY CP25609-3-NY CP25609-4-NY CP25609-5-NY CP25609-6-NY CP25609-7-NY CP25609-8-NY	Black cap only for flat fan tip 10 and larger White cap only for flat fan tip 10 and larger Red cap only for flat fan tip 10 and larger Blue cap only for flat fan tip 10 and larger Green cap only for flat fan tip 10 and larger Yellow cap only for flat fan tip 10 and larger Brown cap only for flat fan tip 10 and larger Orange cap only for flat fan tip 10 and larger	TeeJet Flat Spray Tips (Larger Capacities) 
75733 72551 75727 75728 75729 75730 75731 75732	CP25595-1-NY CP25595-2-NY CP25595-3-NY CP25595-4-NY CP25595-5-NY CP25595-6-Ny CP25595-7-NY CP25595-8-Ny	Black cap only for flat fan tip White cap only for flat fan tip Red cap only for flat fan tip Blue cap only for flat fan tip Green cap only for flat fan tip Yellow cap only for flat fan tip Brown cap only for flat fan tip Orange cap only for flat fan tip	TeeJet Flat Spray Tips (Smaller Capacities) 
72789 72788 72794 72793 72790 72791 72795 72792	CP25597-1-NY CP25597-2-NY CP25597-3-NY CP25597-4-NY CP25597-5-NY CP25597-6-NY CP25597-6-NY CP25597-8-NY	Black cap for AI and TwinJet White cap for AI and TwinJet Red cap for AI and TwinJet Blue cap for AI and TwinJet Green cap for AI and TwinJet Yellow cap for AI and TwinJet Brown cap for AI and TwinJet Orange cap for AI and TwinJet	TJ TwinJet AI TeeJet 
73087 73088 73089 73090 73091 73092 73093 73094	CP25599-1-NY CP25599-2-NY CP25599-3-NY CP25599-4-NY CP25599-5-NY CP25599-6-NY CP25599-7-NY CP25599-8-NY	Black cap for FloodJet and TKVS White cap for FloodJet and TKVS Red cap for FloodJet and TKVS Blue cap for FloodJet and TKVS Green cap for FloodJet and TKVS Yellow cap for FloodJet and TKVS Brown cap for FloodJet and TKVS Orange cap for FloodJet and TKVS	Turbo FloodJet TK-VS FloodJet VisiFlo Spray Tip VisiFlo Spray Tip 
72581 72582 72583 72584	CP25607-1-NY CP25607-2-NY CP25607-3-NY CP25607-4-NY	Black cap only for flood type tip White cap only for flood type tip Red cap only for flood type tip Blue cap only for flood type tip	FK FloodJet FL FullJet TX ConeJet TG Full Cone 
72585 72586 72587 72588	CP25607-5-NY CP25607-6-NY CP25607-7-NY CP25607-8-NY	Green cap only for flood type tip Yellow cap only for flood type tip Brown cap only for flood type tip Orange cap only for flood type tip	 72547 (EPDM standard) 73086 (Viton optional) Used with Disc-Core Sprays (Insert Core into Seal)
72569	CP26277-1-NY	Black cap for ceramic disc-core	Ceramic Disc-Core 

## Quick TeeJet Caps

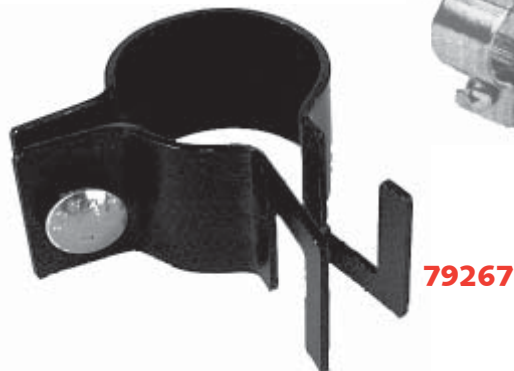
The Quick TeeJet caps are designed with grooves that fit locating lugs on the nozzle body. Caps are made of nylon and are available for use with all TeeJet spray tips. Maximum operating pressure of 300 psi (20 bar)

PART NO.	REPLACES	DESCRIPTION	
72349	QJ4676-1/8-NYB	Black 1/8" permits use of standard 1/8" nozzles. Can be used for mounting pressure gauge at the nozzle.	
72553	QJ4676-1/4-NYB	Black 1/4" permits use of standard 1/4" nozzles. Can be used for mounting pressure gauge at the nozzle.	
72554	19843-NYR	Black, provides shutoff at a nozzle for quick spacing change in spray swath.	
73095	QJ4676-45-1/4-NYR*	Black 45° Quick TeeJet cap	
73096	QJ4676-90-1/4-NYR**	Black 90° Quick TeeJet cap	
72449	CP19438-EPR	EPDM seat gasket for cap (same as standard)	 Quick TeeJet Cap Seat Gasket <ul style="list-style-type: none"> <li>CP19438-EPR (EPDM Standard)</li> <li>CP19438-VI (Viton Optional)</li> </ul>
72450	CP19438-VI	Viton seat gasket for cap (optional)	

## Quick TeeJet

### VARI-SPACING CLAMPS FOR USE ON ALL DRY BOOM QUICK TEEJET BODIES

PART NO.	REPLACES	DESCRIPTION
73008	QJ111-1/2	1/2" pipe (7/8 & 13/16 OD tubing)
72433	QJ111-3/4	3/4" pipe (1" & 11/16" OD tubing)
72434	QJ111-1	1" pipe (11/8", 11/4" & 13/8" OD tubing)
72344	QJ111-1 1/4	1 1/4" pipe (19/16" & 111/16" OD tubing)
75685	QJ111HP-3/4	3/4" Pipe, (1" & 1 1/16" OD tubing)
79267		1 1/2" RD for Spray Coupe
73009	QJ111SQ-3/4	3/4" square tubing
72435	QJ111SQ-1	1" square tubing
72436	QJ111SQ-1 1/4	1 1/4" square tubing
72437	QJ111SQ-1 1/2	1 1/2" square tubing



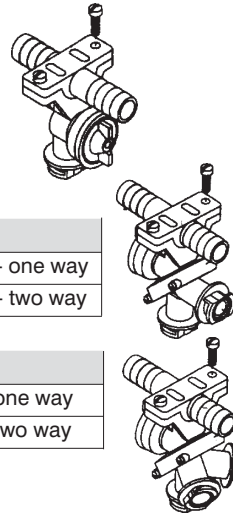
**Combo-Jet Nozzle Components**

**COMBO-JET NOZZLE BODIES FOR DRY BOOMS**

PART NO.	REPLACES	DESCRIPTION
72123	40282-00	Single nozzle assy - 3/4" HB dry boom - one way
72124	40283-00	Single nozzle assy - 3/4" HB dry boom - two way

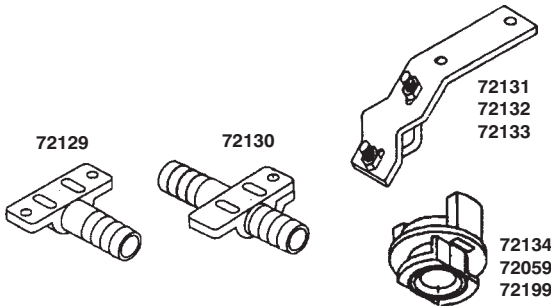
PART NO.	REPLACES	DESCRIPTION
72125	40288-00	Double Combo-Jet nozzle assy - 3/4" HB dry boom - one way
72126	40289-00	Double Combo-Jet nozzle assy - 3/4" HB dry boom - two way

PART NO.	REPLACES	DESCRIPTION
72127	40293-00	Triple Combo-Jet nozzle assy - 3/4" HB dry boom - one way
72128	40294-00	Triple Combo-Jet nozzle assy - 3/4" HB dry boom - two way



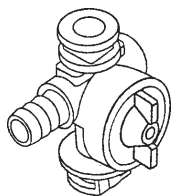
**FOR COMBO-JET TIP CAP COMBINATION  
SEE PAGE 3-37 THRU 3-42**

**FOR PARTS BREAKDOWN OF ABOVE SEE PAGE 4-19**



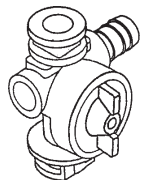
PART NO.	REPLACES	DESCRIPTION
72129	40162-00	Dry boom adapter - one way - 3/4" HB
72130	40163-00	Dry boom adapter - two way - 3/4" HB
72131	40171-00	Dry boom clamp - 3/4" - 1" square
72132	40172-00	Dry boom clamp - 1 1/4" - 1 1/2" square
72133	40173-00	Dry boom clamp - 1" pipe - round
72134	40200-00	Adapter - conventional style to Combo-Jet
72059	40202-00	Adapter - Hardi style to Combo-Jet
72199	40203-00	Adapter - Combo-Jet to SS Quick TeeJet

**COMPACT DIAPHRAGM BODY ASSEMBLY, SQUARE MOUNT  
(USED ON WP140, 21, 28 AND 35 FOOT BOOMS)**



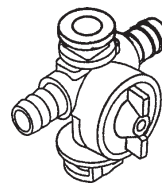
**ONE WAY LEFT**

PART NO.	REPLACES	DESCRIPTION
72175	40380-00	3/8" HB left
72170	40385-00	1/2" HB left
72173	40390-00	3/4" HB left



**ONE WAY RIGHT**

PART NO.	REPLACES	DESCRIPTION
72176	40381-00	3/8" HB right
72171	40386-00	1/2" HB right
72174	40391-00	3/4" HB right

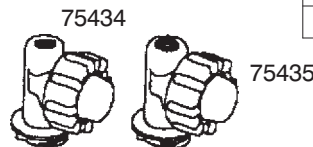


**2-WAY**

PART NO.	REPLACES	DESCRIPTION
72177	40382-00	3/8" HB tee
72169	40387-00	1/2" HB tee
72172	40392-00	3/4" HB tee

**CROSS (NOT SHOWN)**

PART NO.	REPLACES	DESCRIPTION
72178	40383-00	3/8" HB cross
72180	40388-00	1/2" HB cross



**INLET MOUNT COMPACT BODIES WITH NPT FEMALE INLET**

PART NO.	REPLACES	DESCRIPTION
75434	40500-00	Compact Diaphragm Body Assy, 1/8" NPT Fe
75435	40501-00	Compact Diaphragm Body Assy, 1/4" NPT Fe

**TURRET ADAPTER BODIES FOR COMBO-JET®**

Convert single body to dual or triple head system



PART NO.	REPLACES	DESCRIPTION
75419	40470	Dual Body Adapter Assy- radial lock
75420	40471	Triple Body Adapter Assy - radial lock

**TURRET ADAPTER BODIES FOR CONVENTIONAL SYSTEM**



Convert Radiallock Single body to Dual or Triple head system

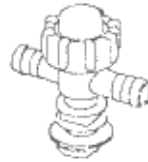
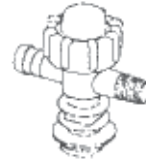
PART NO.	REPLACES	DESCRIPTION
75421	40472-00	Dual Body Adapter Assy Conventional
75422	40473-00	Triple Body Adapter Assy Conventional

## Combo Jet Nozzle Components

### HIGH MOUNT DRY BOOM BODIES WITH INTEGRAL HOSE SHANKS

#### SQUARE MOUNT STYLE WITH DIAPHRAGM CHECK VALVES

PART NO.	REPLACES	DESCRIPTION
75424	40450-00	One way 3/8" hose barb
75425	40452-00	One way 1/2" hose barb
75426	40451-00	Two way 3/8" hose barb
75427	40453-00	Two way 1/2" hose barb
75428	40454-00	1/2" hose barb with 1/4" MNPT

**75425****75427****75428**

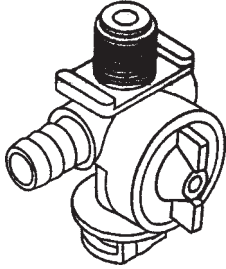
#### FLANGE MOUNT STYLE WITH DIAPHRAGM CHECK VALVES

PART NO.	REPLACES	DESCRIPTION
75429	40460-00	One way 3/8" hose barb
75430	40462-00	One way 1/2" hose barb
75431	40461-00	Two way 3/8" hose barb
75432	40463-00	Two way 1/2" hose barb
75433	40464-00	1/2" hose barb with 1/4" MNPT

**75429****75431****75433**

**Combo-Jet Nozzle Components**

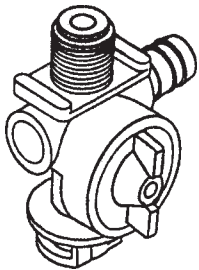
**COMPACT DIAPHRAGM BODY ASSEMBLY, 11/16" THREAD MOUNT**



**ONE WAY LEFT**

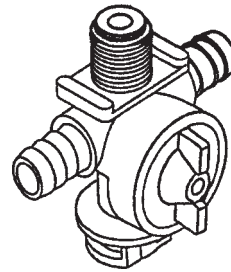
PART NO.	REPLACES	DESCRIPTION
72184	40360-00	3/8" HB left
72189	40365-00	1/2" HB left
72193	40370-00	3/4" HB left

**FOR COMBO-JET TIP CAP COMBINATION  
SEE PAGE 3-37 THRU 3-42**



**ONE WAY RIGHT**

PART NO.	REPLACES	DESCRIPTION
72185	40361-00	3/8" HB right
72190	40366-00	1/2" HB right
72194	40371-00	3/4" HB right

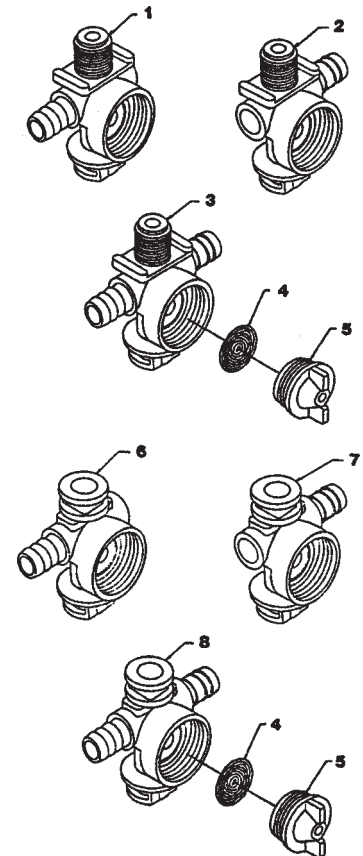


**2 WAY**

PART NO.	REPLACES	DESCRIPTION
72186	40362-00	3/8" HB tee
72191	40367-00	1/2" HB tee
72195	40372-00	3/4" HB tee

**Combo-Jet Compact Dry Boom Nozzle System Breakdown**

REF	PART NO.	REPLACES	DESCRIPTION
1	72073	40360-01	Compact diaphragm body, 11/16" thread mt., 3/8" one way left
1	72074	40365-01	Compact diaphragm body, 11/16" thread mt., 1/2" one way left
1	72075	40370-01	Compact diaphragm body, 11/16" thread mt., 3/4" one way left
2	72076	40361-01	Compact diaphragm body, 11/16" thread mt., 3/8" one way right
2	72077	40366-01	Compact diaphragm body, 11/16" thread mt., 1/2" one way right
2	72078	40371-01	Compact diaphragm body, 11/16" thread mt., 3/4" one way right
3	72079	40362-01	Compact diaphragm body, 11/16" thread mt., 3/8" two way
3	72080	40367-01	Compact diaphragm body, 11/16" thread mt., 1/2" two way
3	72081	40372-01	Compact diaphragm body, 11/16" thread mt., 3/4" two way
4	72106	40155-07	Diaphragm
5	72155	40155-08	Diaphragm module assy.
5	74949	40155-17	Diaphragm module assy. 20 PSI
6	72082	40380-01	Compact diaphragm body, sq. mt., 3/8" one way left
6	72083	40385-01	Compact diaphragm body, sq. mt., 1/2" one way left
6	72084	40390-01	Compact diaphragm body, sq. mt., 3/4" one way left
7	72085	40381-01	Compact diaphragm body, sq. mt., 3/8" one way right
7	72086	40386-01	Compact diaphragm body, sq. mt., 1/2" one way right
7	72087	40391-01	Compact diaphragm body, sq. mt., 3/4" one way right
8	72088	40382-01	Compact diaphragm body, sq. mt., 3/8" two way
8	72089	40387-01	Compact diaphragm body, sq. mt., 1/2" two way
8	72090	40392-01	Compact diaphragm body, sq. mt., 3/4" two way



**Combo-Jet Nozzle Components**

**SQUARE MOUNT DRY BOOM BODIES 3/8" FPT THREAD**

PART NO.	REPLACES	DESCRIPTION
----------	----------	-------------

**Single Nozzle Body**

72050	40352-00	Single nozzle body
-------	----------	--------------------

**Double Combo-Jet Nozzle Body**

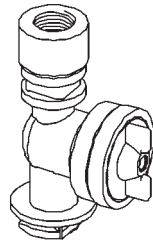
72051	40353-00	Double nozzle body
-------	----------	--------------------

**Triple Combo-Jet Nozzle Body**

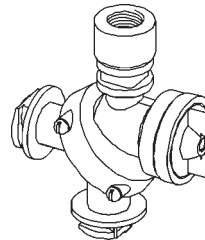
72052	40354-00	Triple body
-------	----------	-------------

**Hose Barb Adapters for Above Bodies 3/8" MPT Thread**

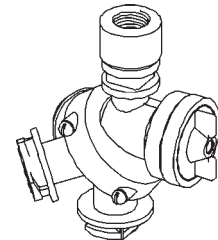
72053	40301-00	3/8" elbow
72055	40306-00	1/2" elbow
72057	40311-00	3/4" elbow
72054	40302-00	3/8" tee
72056	40307-00	1/2" tee
72058	40312-00	3/4" tee
72091	40313-00	3/4" cross



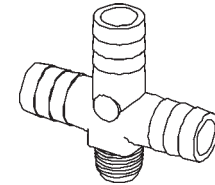
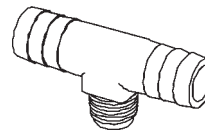
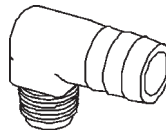
**SINGLE NOZZLE BODY**



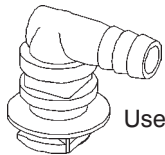
**DOUBLE NOZZLE BODY**



**TRIPLE NOZZLE BODY**

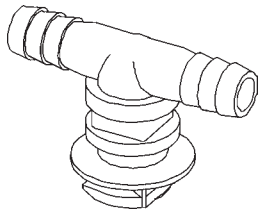


**FOR PARTS BREAKDOWN SEE PAGE 4-20**



PART NO.	REPLACES	DESCRIPTION
72099	40406-00	Compact body, square mount, 1/2", one way

Used on WP100 and WP62140 Booms



PART NO.	REPLACES	DESCRIPTION
72098	40407-00	Compact body, square mount, 1/2", two way

**FOR COMBO-JET TIP CAP COMBINATION SEE PAGE 3-37 THROUGH 3-42**



**20451**



**20452**

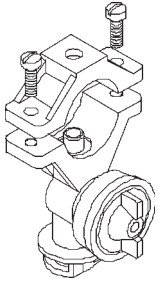


**20453**

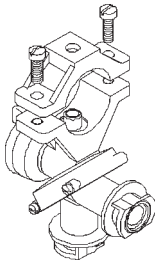
PART NO.	REPLACES	DESCRIPTION
75423	20451	Manifold 1.5" NPT x 2" Adapter Polyprop
79903	20452	Manifold 1.5" NPT x 1.5" NPT Polyprop
79904	20453	Manifold 1.5" NPT x 1.25" NPTFe Adapter, polyprop



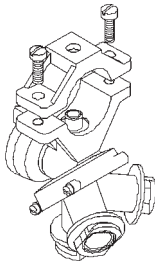
**Combo-Jet Nozzle Components**



PART NO.	REPLACES	DESCRIPTION
72113	40254-00	Single nozzle assy - 3/4" wet boom
72114	40256-00	Single nozzle assy - 1" wet boom



PART NO.	REPLACES	DESCRIPTION
72115	40255-00	Double Combo-Jet nozzle assy - 3/4" wet boom
72116	40257-00	Double Combo-Jet nozzle assy - 1" wet boom

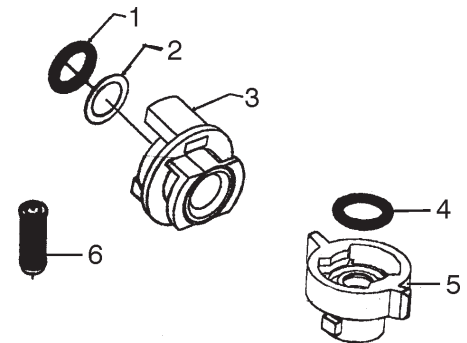


PART NO.	REPLACES	DESCRIPTION
72117	40266-00	Triple Combo-Jet nozzle assy - 3/4" wet boom
72118	40267-00	Triple Combo-Jet nozzle assy - 1" wet boom

**FOR PARTS BREAKDOWN SEE PAGE 4-19**

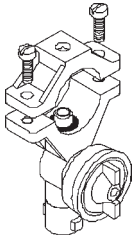
**Combo-Jet Conversion Adapters for Nozzle Bodies**

REF	PART NO.	REPLACES	DESCRIPTION
1	72048	40200-02	O-Ring fits 72134, 72059
2	72049	40200-03	Poly washer - used for extra seal compression when required
3	72134	40200-00	Adapter assy - conventional to Combo-Jet (includes seal)
3	72059	40202-00	Adapter assy - Hardi to Combo-Jet (includes seal)
4	72121	40260-00	O-Ring fits 72199 and all Combo-Jet tip cap combinations
5	72199	40203-00	Adapter assy - Combo-Jet to Conventional (includes seal)
6	72119	40250-00	Snap in 50 mesh
6	72120	40251-00	Snap in 100 mesh

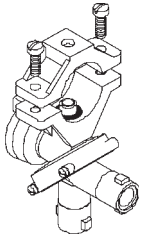


**FOR COMBO-JET TIP CAP COMBINATION SEE PAGE 3-37 THRU 3-42  
FOR OTHER COMBO-JET CAPS SEE PAGE 4-17**

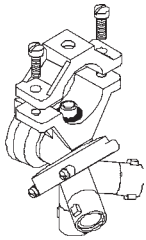
**Swivel-Jet Uses Universal Caps**



PART NO.	REPLACES	DESCRIPTION
72152	40154-00	Single nozzle assembly 3/4" wet boom, less caps
72153	40156-00	Single nozzle assembly 1" wet boom, less caps



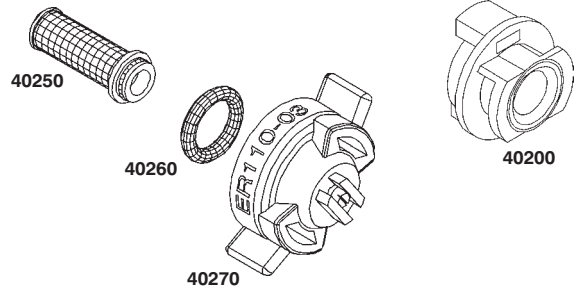
PART NO.	REPLACES	DESCRIPTION
72100	40155-00	Double Swivel-Jet nozzle assy - 3/4" wet boom, less caps
72108	40157-00	Double Swivel-Jet nozzle assy - 1" wet boom, less caps



PART NO.	REPLACES	DESCRIPTION
73129	40166-00	Triple Swivel-Jet nozzle assy - 3/4" wet boom less caps
72097	40167-00	Triple Swivel-Jet nozzle assy - 1" wet boom less caps

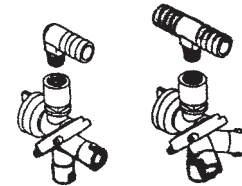
**FOR PARTS BREAKDOWN OF ABOVE PARTS SEE PAGE 4-21**

PART NO.	REPLACES	DESCRIPTION
	40270	See page 3-37 through 3-42
72119	40250-00	Nozzle strainer assy - snap-in CJ, 50 mesh
72120	40251-00	Nozzle strainer assy - snap-in CJ, 100 mesh
72121	40260-00	Nozzle seal - Combo-Jet
72134	40200-00	Adapter assy - conventional to Combo-Jet (includes seal)



**FOR CONVENTIONAL NOZZLE CAPS SEE PAGE 4-17**

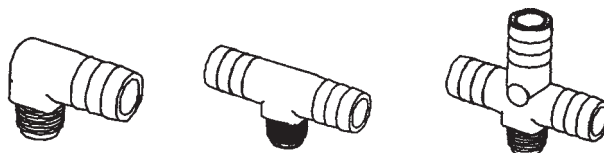
PART NO.	REPLACES	DESCRIPTION
75437	40152-00	Square mount dry boom body assy double with diaphragm
75438	40153-00	Square mount dry boom body assy triple with diaphragm



**CONVENTIONAL STYLE**

**HOSE BARB ADAPTERS FOR ABOVE BODIES 3/8" MPT THREAD**

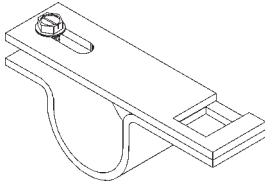
PART NO.	REPLACES	DESCRIPTION
72053	40301-00	3/8" elbow
72055	40306-00	1/2" elbow
72057	40311-00	3/4" elbow
72054	40302-00	3/8" tee
72056	40307-00	1/2" tee
72058	40312-00	3/4" tee
72091	40313-00	3/4" cross



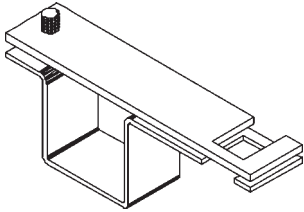
**Combo-Jet Caps**

PART NO.	REPLACES	DESCRIPTION	
72156 72122 72157 72158 73130 73131 73132 73133 73134	40269-01 40269-02 40269-03 40269-04 40269-05 40269-06 40269-07 40269-08 40269-09	Red Combo-Jet cap - universal slot - fits Flat Fan tips White Combo-Jet cap - universal slot - fits Flat Fan tips Green Combo-Jet cap - universal slot - fits Flat Fan tips Yellow Combo-Jet cap - universal slot - fits Flat Fan tips Black Combo-Jet cap - universal slot - fits Flat Fan tips Blue Combo-Jet cap - universal slot - fits Flat Fan tips Brown Combo-Jet cap - universal slot - fits Flat Fan tips Orange Combo-Jet cap - universal slot - fits Flat Fan tips Grey Combo-Jet cap - universal slot - fits Flat Fan tips	Standard -0067 thru -08  XR -01 thru -08 DG -015 thru -05  TT -01 thru -05
72092 73135 73136 73137	40276-01 40276-02 40276-03 40276-04	Red Combo-Jet cap - wide slot - fits TJ TwinJet, AI TeeJet tips White Combo-Jet cap - wide slot - fits TJ TwinJet, AI TeeJet tips Green Combo-Jet cap - wide slot - fits TJ TwinJet, AI TeeJet tips Yellow Combo-Jet cap - wide slot - fits TJ TwinJet, AI TeeJet tips	TJ TwinJet®  AI TeeJet®
72159 72160 72161 72162 73138 73139 73140 73141 73142	40271-01 40271-02 40271-03 40271-4 40271-5 40271-6 40271-7 40271-8 40271-9	Red Combo-Jet cap - universal round slot - fits Flood Jet tips White Combo-Jet cap - universal round slot - fits Flood Jet tips Green Combo-Jet cap - universal round slot - fits Flood Jet tips Yellow Combo-Jet cap - universal round slot - fits Flood Jet tips Black Combo-Jet cap - universal round slot - fits Flood Jet tips Blue Combo-Jet cap - universal round slot - fits Flood Jet tips Brown Combo-Jet cap - universal round slot - fits Flood Jet tips Orange Combo-Jet cap - universal round slot - fits Flood Jet tips Grey Combo-Jet cap - universal round slot - fits Flood Jet tips	TK FloodJet®  TX ConeJet® FL FullJet®  TG Full Cone
72163 72164 72165 72166 73143 75440 77994	40272-1 40272-2 40272-3 40272-4 40272-5 40180-05 40430-15	Red Combo-Jet cap - plug White Combo-Jet cap - plug Green Combo-Jet cap - plug Yellow Combo-Jet cap - plug Black Combo-Jet cap - plug Nozzle cap Blank Conventional Bodies Black Fertilizer Nozzle Cap Blank	
71917 73144 73145 73146 73147	40273-01 40273-02 40273-03 40273-04 40273-05	Red Combo-Jet cap 1/4" NPT female threads White Combo-Jet cap 1/4" NPT female threads Green Combo-Jet cap 1/4" NPT female threads Yellow Combo-Jet cap 1/4" NPT female threads Black Combo-Jet cap 1/4" NPT female threads	Allows use of standard 1/4" nozzles and can be used to mount pressure gauge
73148 73149 73150 73151 73152 75439	40274-01 40274-02 40274-03 40274-04 40274-05 40164-00	Red Combo-Jet cap 1/4" NPT female threads at 45° angle White Combo-Jet cap 1/4" NPT female threads at 45° angle Green Combo-Jet cap 1/4" NPT female threads at 45° angle Yellow Combo-Jet cap 1/4" NPT female thread at 45° angle Black Combo-Jet cap 1/4" NPT female thread at 45° angle Black cap 1/4" NPT to fit conventional bodies	Allows use of standard 1/4" nozzles and can be used to mount pressure gauge
75743 75744 75745 77997	40420-05 40422-05 40424-05 40426-05	Black Combo-Jet cap 1/8" hose barb Black Combo-Jet cap 1/4" hose barb Black Combo-Jet cap 3/8" hose barb Black Combo-Jet cap 1/2" hose barb	
75441 75442 75443 75444	40165-01 40165-02 40165-03 40165-04	Red cap 1/2" hose barb for conventional bodies White cap 1/2" hose barb for conventional bodies Green cap 1/2" hose barb for conventional bodies Yellow cap 1/2" hose barb for conventional bodies	
75418	40436-05	Combo-Jet cap 3/8" tube adapter	
73153 73154 73155 73156 73157	40275-01 40275-02 40275-03 40275-04 40275-05	Red Combo-Jet cap to fit Hardi tips White Combo-Jet cap to fit Hardi tips Green Combo-Jet cap to fit Hardi tips Yellow Combo-Jet cap to fit Hardi tips Black Combo-Jet cap to fit Hardi tips	
72110 72111 72167 72168 75734	40159-01 40159-02 40159-03 40159-04 40159-05	Red fits conventional and Swivel Jet nozzle bodies for flat fan tips White fits conventional and Swivel Jet nozzle bodies for flat fan tips Green fits conventional and Swivel Jet nozzle bodies for flat fan tips Yellow fits conventional and Swivel Jet nozzle bodies for flat fan tips Black fits conventional and swivel jet nozzle bodies for flat fan tips	
72121 77163 72449 72450 72119 72120 50MN 100MN	40260-00 40260-V0 40160-00 40161-00 40250-00 40251-00 40150-00 40151-00	Nozzle seal - Combo-Jet Nozzle seal Combo-Jet Viton Nozzle gasket - conventional Nozzle gasket - conventional Viton Nozzle strainer - snap-in Combo-Jet, 50 mesh Nozzle strainer - snap-in Combo-Jet, 100 mesh Nozzle strainer - flanged, 50 mesh - universal Nozzle strainer - flanged, 100 mesh - universal	 50MN 100MN 72449 72450 72122 72119 72121 Combo-Jet Tip Cap

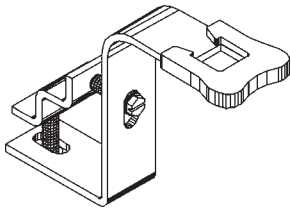
## Combo-Jet Clamps for Square & Round Dry Booms



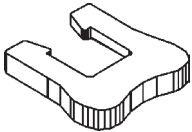
PART NO.	REPLACES	DESCRIPTION
73860	40320-00	Clamp assy 1/2" pipe
73861	40321-00	Clamp assy 3/4" pipe
73862	40322-00	Clamp assy 1" pipe



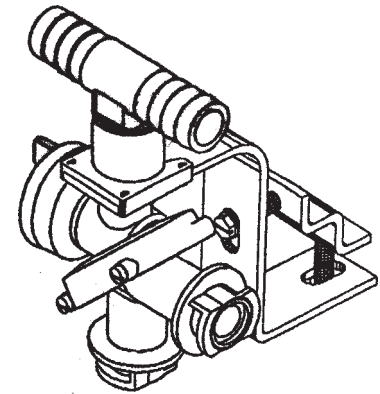
PART NO.	REPLACES	DESCRIPTION
73863	40325-00	Clamp assy 3/4" sq. tube
73864	40326-00	Clamp assy 1" sq. tube
73865	40327-00	Clamp assy 1 1/4" sq. tube
73866	40328-00	Clamp assy 1 1/2" sq. tube
73867	40330-00	Clamp assy 2" sq. tube



PART NO.	REPLACES	DESCRIPTION
73874	40341-00	High reach clamp assy 3/4" to 1 1/4" sq. & rd. tube
73875	40342-00	High reach clamp assy 1 1/2" to 2" sq. & rd. tube
75436	40343-00	Extra high reach clamp assy 3/4" rd. tube

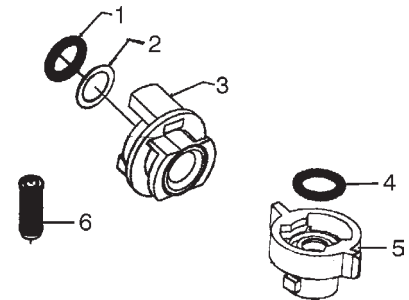


PART NO.	REPLACES	DESCRIPTION
73879	40341-04	Lock clip - dry boom clamp



## COMBO-JET CONVERSION ADAPTERS FOR NOZZLE BODIES

REF	PART NO.	REPLACES	DESCRIPTION
1	72048	40200-02	O-Ring fits 72134, 72059
2	72049	40200-03	Poly washer (used for extra seal compression when required)
3	72134	40200-00	Adapter assy - conventional to Combo-Jet (includes seal)
3	72059	40202-00	Adapter assy - Hardi to Combo-Jet (includes seal)
4	72121	40260-00	O-Ring fits 72199 and all Combo-Jet tip cap combinations
5	72199	40203-00	Adapter assy - Combo-Jet (includes seal)
6	72119	40250-00	Snap in 50 mesh
6	72120	40251-00	Snap in 100 mesh



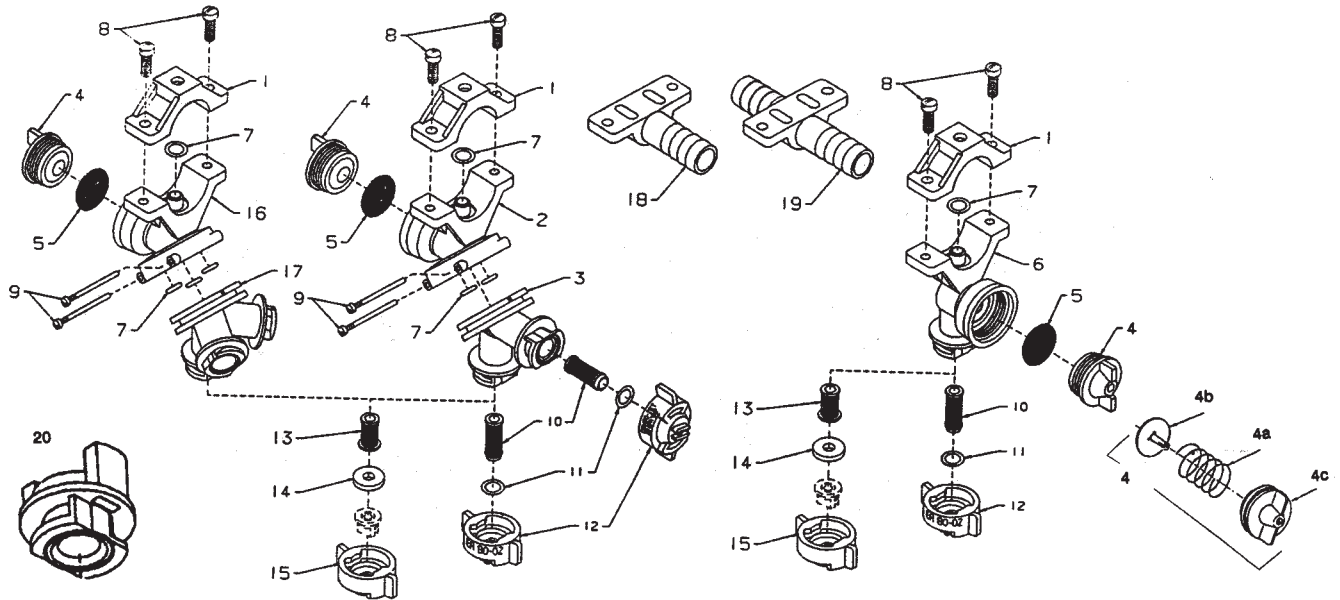
## HOSE DROP ASSEMBLIES

PART NO.	REPLACES	DESCRIPTION
75445	22021-00	16" nylon hose drop, 1/4" NPTM 1/4" NPTM
75446	22025-00	16" nylon hose drop, 1/4" NPTM x 1/4" NPTF
75447	22026-00	16" nylon hose drop, radiallock cap x 1/4" NPTM
75448	22031-00	24" nylon hose drop, 1/4" NPTM x 1/4" NPTM
75449	22035-00	24" nylon hose drop, NPTM x 1/4" NPTF
75450	22036-00	24" nylon hose drop, radiallock cap x 1/4" NPTM



75447

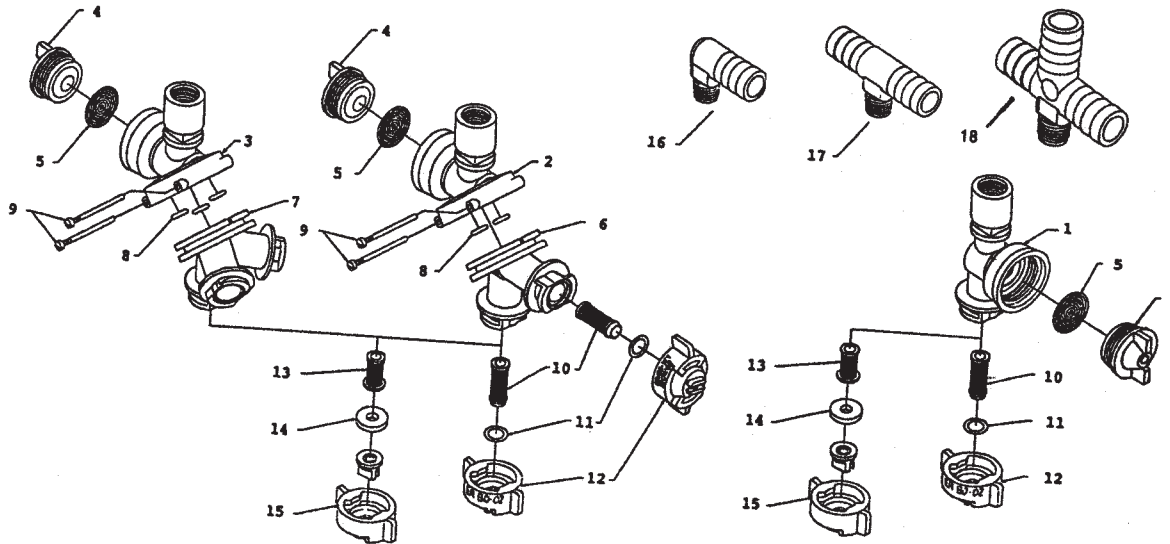
**Wilger Combo-Jet Wet Boom Nozzle System Breakdown**



REF	PART NO.	REPLACES	DESCRIPTION
1	72101	40155-01	Upper clamp 3/4"
1	72109	40157-01	Upper clamp 1"
2	72181	40155-02	Main body, 3/4" - for dual
2	72182	40157-02	Main body, 1" - for dual
3	72066	40255-03	Dual body - Combo-Jet
4	72155	40155-08	Diaphragm module assy
4	74949	4015517	Diaphragm module assy 20 PSI
4a	72105	40155-6	Spring
4b	72104	40155-5	Pressure pad
4c	72103	40155-4	Diaphragm Module
5	72106	40155-07	Diaphragm
6	72067	40254-02	Single body, 3/4" - Combo-Jet
6	72068	40256-02	Single body, 1" - Combo-Jet
7	72107	40155-09	O-ring - Buna N
8	72102	40155-10	Screw, 1/4-200NCx3/4HX slow wash HD SS
9	72062	40155-11	Screw, Swivel #6 x 1 5/8 PH slot SS
10	72119	40250-00	Nozzle strainer, C-J, 50 M
10	72120	40251-00	Nozzle strainer, C-J, 100 M
11	72121	40260-00	Nozzle seal - C-J 13 mm x 3 mm
12	72135	40270-01	Combo-Jet tip/cap ER80-01, orange
12	72136	40270-015	Combo-Jet tip/cap ER80-015, green
12	72137	40270-02	Combo-Jet tip/cap ER80-02, yellow
12	72196	40270-025	Combo-Jet tip/cap ER80-02.5, purple
12	72138	40270-03	Combo-Jet tip/cap ER80-03, blue
12	72139	40270-04	Combo-Jet tip/cap ER80-04, red
12	72140	40270-05	Combo-Jet tip/cap ER80-05, brown
12	72149	40270-06	Combo-Jet tip/cap ER80-06, grey
12	72150	40270-08	Combo-Jet tip/cap ER80-08, white
12	72141	40281-01	Combo-Jet tip/cap ER110-01, orange
12	72142	40281-015	Combo-Jet tip/cap ER110-015, green
12	72143	40281-02	Combo-Jet tip/cap ER110-02, yellow

REF	PART NO.	REPLACES	DESCRIPTION
12	72197	40281-025	Combo-Jet tip/cap ER110-02.5, purple
12	72144	40281-03	Combo-Jet tip/cap ER110-03, blue
12	72145	40281-04	Combo-Jet tip/cap ER110-04, red
12	72146	40281-05	Combo-Jet tip/cap ER110-05, brown
12	72147	40281-06	Combo-Jet tip/cap ER110-06, grey
12	72148	40281-08	Combo-Jet tip/cap ER110-08, white
13	50MN	40150-00	Nozzle strainer - flanged, 50M
13	100MN	40151-00	Nozzle strainer - flanged, 100M
14	72449	40160-00	Nozzle gasket - universal
15	72156	40269-01	RL cap - universal, slot - red
15	72122	40269-02	RL cap - universal, slot - white
15	72157	40269-03	RL cap - universal, slot - green
15	72158	40269-04	RL cap - universal, slot - yellow
15	72159	40271-01	RL cap - universal, round - red
15	72160	40271-02	RL cap - universal, round - white
15	72161	40271-03	RL cap - universal, round - green
15	72162	40271-04	RL cap - universal, round - yellow
15	72163	40272-01	RL cap - plug - red
15	72164	40272-02	RL cap - plug - white
15	72165	40272-03	RL cap - plug - green
15	72166	40272-04	RL cap - plug - yellow
16	72063	40166-02	Main body, 3/4" - for triple
16	72064	40167-02	Main body, 1" - for triple
17	72069	40266-03	Triple body, 1" Combo-Jet
18	72129	40162-00	Dry boom adapter - one way - 3/4" HB
19	72130	40163-00	Dry boom adapter - two way - 3/4" HB
20	72134	40200-00	Adapter conventional style & TeeJet to ComboJet
20	72059	40202-00	Adapter Hardi to Combo-Jet
20	72199	40203-00	Adapter Combo-Jet to conventional

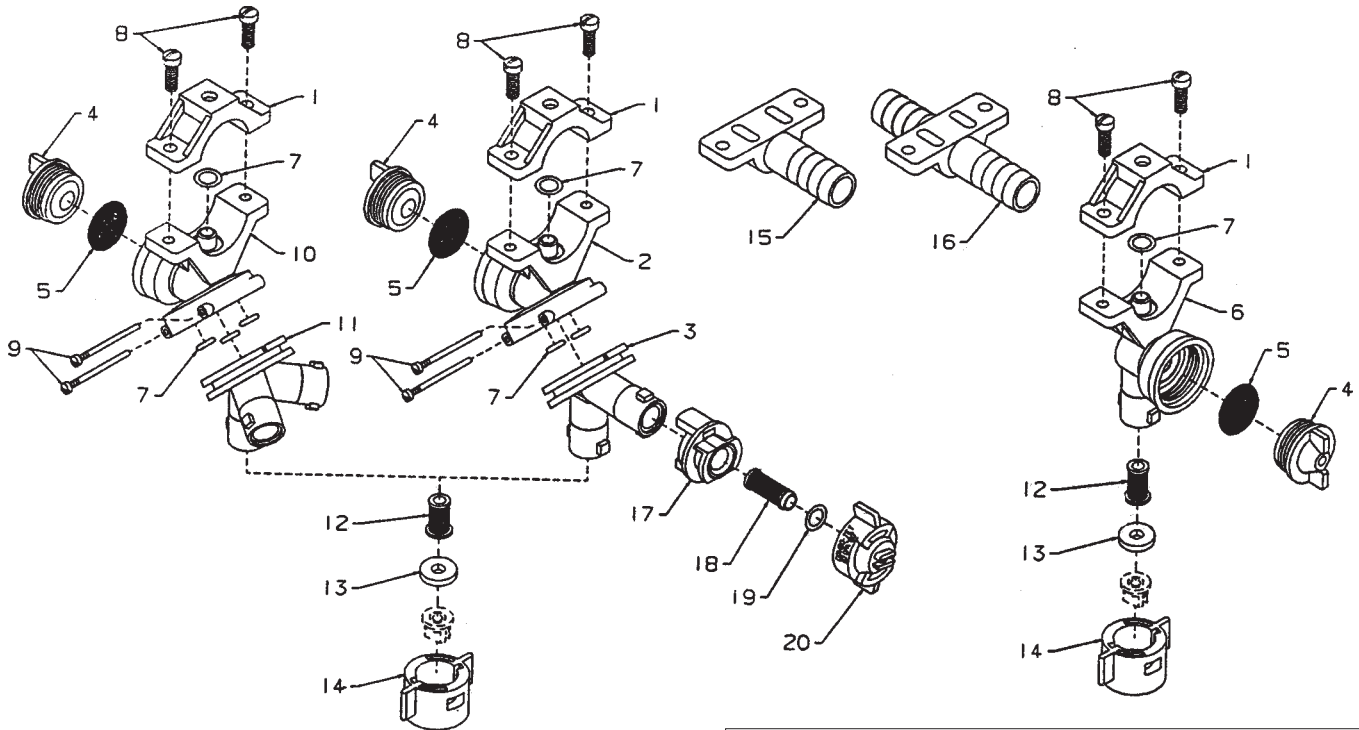
## Combo-Jet Compact Dry Nozzle System Breakdown



REF	PART NO.	REPLACES	DESCRIPTION
1	72070	40352-01	Combo-Jet sq. mt. dry boom body - single, diaphragm type
2	72071	40353-01	Combo-Jet sq. mt. dry boom main body - double, diaphragm type
3	72072	40354-01	Combo-Jet sq. mt. dry boom main body - triple, diaphragm type
4	72155	40155-08	Diaphragm module assy.
4	74949	40155-17	Diaphragm module assy. 20 PSI
5	72106	40155-07	Diaphragm - Fairprene
6	72066	40255-03	Dual body, C-J
7	72069	40266-03	Triple body, C-J
8	72107	40155-09	O-ring - Buna N
9	72062	40155-11	Screw, Swivel #6 x 1 5/8 PH slot SS
10	72119	40250-00	Nozzle strainer assy - snap-in C-J, 50 mesh
10	72120	40251-00	Nozzle strainer assy - snap-in C-J, 100 mesh
11	72121	40260-00	Nozzle seal - Combo-Jet 13mm x 3mm
12	72135	40270-01	Combo-Jet tip/cap - ER80-01, orange
12	72136	40270-015	Combo-Jet tip/cap - ER80-015, green
12	72137	40270-02	Combo-Jet tip/cap - ER80-02, yellow
12	72196	40270-025	Combo-Jet tip/cap - ER80-02.5, purple
12	72138	40270-03	Combo-Jet tip/cap - ER80-03, blue
12	72139	40270-04	Combo-Jet tip/cap - ER80-04, red
12	72140	40270-05	Combo-Jet tip/cap - ER80-05, brown
12	72149	40270.06	Combo-Jet tip/cap - ER80-06, grey

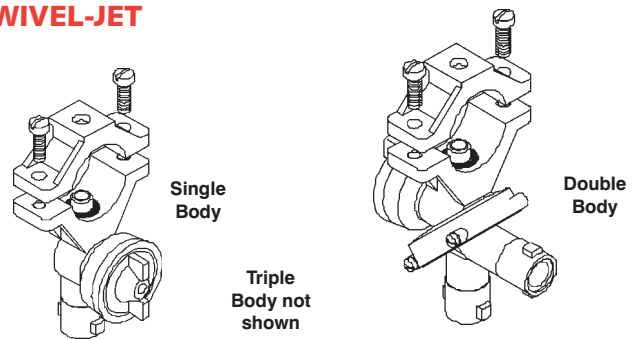
REF	PART NO.	REPLACES	DESCRIPTION
12	72150	40270-08	Combo-Jet tip/cap - ER80-08, white
12	72141	40281-01	Combo-Jet tip/cap - ER110-01, orange
12	72142	40281-015	Combo-Jet tip/cap - ER110-015, green
12	72143	40281-02	Combo-Jet tip/cap - ER110-02, yellow
12	72197	40281-025	Combo-Jet tip/cap - ER110-02.5, purple
12	72144	40281-03	Combo-Jet tip/cap - ER110-03, blue
12	72145	40281-04	Combo-Jet tip/cap - ER100-04, red
12	72146	40281-05	Combo-Jet tip/cap - ER110-05, brown
12	72147	40281-06	Combo-Jet tip/cap - ER110-06, grey
12	72148	40281-08	Combo-Jet tip/cap - ER110-08, white
13	50MN	40150-00	Nozzle strainer - flanged, 50 mesh
13	100MN	40151-00	Nozzle strainer - flanged, 100 mesh
14	72449	40160-00	Nozzle gasket - universal
15	72156	40269-01	RL cap - universal, slot - red
15	72122	40269-02	RL cap - universal, slot - white
15	72157	40269-03	RL cap - universal, slot - green
15	72158	40269-04	RL cap - universal, slot - yellow
15	72053	40301-00	Hose shank adapter 3/8" one way
16	72055	40306-00	Hose shank adapter 1/2" one way
16	72057	40311-00	Hose shank adapter 3/4" one way
16	72054	40302-00	Hose shank adapter 3/8" two way
17	72056	40307-00	Hose shank adapter 1/2" two way
17	72058	40312-00	Hose shank adapter 3/4" two way
18	72091	40313-00	Hose shank adapter 3/4" three way

**Wilger Conventional Wet Boom Nozzle System Breakdown**



REF	PART NO.	REPLACES	DESCRIPTION
1	72101	40155-01	Upper clamp 3/4"
1	72109	40157-01	Upper clamp 1"
2	72181	40155-02	Main body, 3/4" - for dual
2	72182	40157-02	Main body, 1" for dual
3	72183	40155-03	Dual body - SS
4	72155	40155-08	Diaphragm module assy
4	74959	40155-17	Diaphragm module assy 20 PSI
5	72106	40155-07	Diaphragm
6	72060	40154-02	Single body, 3/4" - SS
6	72061	40156-02	Single body, 1" - SS
7	72107	40155-09	O-Ring - Buna N
8	72102	40155-10	Screw, 1/4-20NC x 3/4 HX slot wash ID SS
9	72062	40155-11	Screw swivel PH slot SS
10	72063	40166-02	Main body, 3/4"- for triple
10	72064	40167-02	Main body, 1" - for triple
11	72065	40166-03	Triple body, 1"
12	50MN	40150-00	Nozzle strainer - flanged, 50 M
12	100 MN	40151-00	Nozzle strainer - flanged, 100 M
13	72449	40160-00	Nozzle gasket - universal
14	72110	40159-01	Nozzle cap, red
14	72111	40159-02	Nozzle cap, white
14	72167	40159-03	Nozzle cap, green
14	72168	40159-04	Nozzle cap, yellow
14	75734	40159-05	Nozzle cap, black
15	72129	40162-00	Dry boom adapter - one way - 3/4" HB
16	72130	40163-00	Dry boom adapter - two way - 3/4" HB
17	72134	40200-00	Adapter - conventional style to Combo
17	72059	40202-00	Adapter Hardi to Combo-Jet
18	72119	40250-00	Nozzle strainer, C-J, 50M
18	72120	40251-00	Nozzle strainer, C-J, 100M
19	72121	40260-00	Nozzle seal, C-J, 13mm x 3mm
20			See page 3-37 through 3-42

**SWIVEL-JET**



PART NO.	REPLACES	DESCRIPTION
72152	40154-00	Single nozzle assembly - 3/4" wet boom, less caps
72153	40156-00	Single nozzle assembly - 1" wet boom, less caps
72100	40155-00	Double Swivel-Jet nozzle assy - 3/4" wet boom, less caps
72108	40157-00	Double Swivel-Jet nozzle assy - 1" wet boom, less caps
73129	40166-00	Triple Swivel-Jet nozzle assy - 3/4" wet boom, less caps
72097	40167-00	Triple Swivel-Jet nozzle assy - 1" wet boom, less caps



## Combo-Rate™

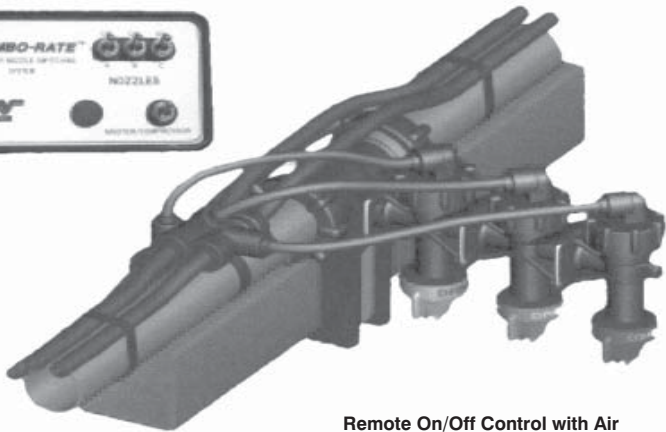
### A WHOLE NEW WAY OF THINKING REGARDING SPRAYER NOZZLE BODY CONFIGURATION

### A WHOLE NEW WORLD OF WAYS TO MAKE BETTER USE OF YOUR SPRAYING EQUIPMENT

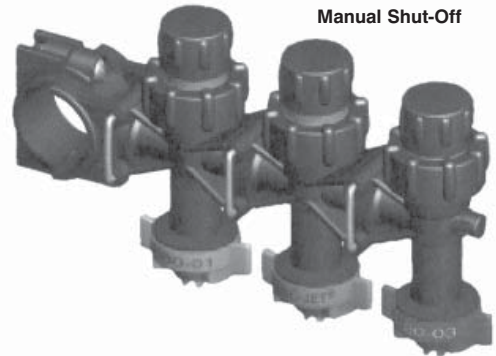


Unlike conventional multiple nozzle systems, all the nozzles are in a spray ready position. Use this to:

- Combine spray nozzles to obtain more spray rates from fewer nozzles
  - Optimize droplet size for better chemical effectiveness



Remote On/Off Control with Air



Manual Shut-Off

#### Special Features

- Fully modular in design
- Stainless steel lock clip and O-Ring seals for field service without wrenches
- High Flow Capacity, 1/4 to 1/5 of pressure drop of conventional nozzle bodies
- Chemical (even acid) resistant materials

#### Available in

- Diaphragm check valve version for single usage
- Diaphragm check valve with manual shut-off
- Air operated remote control, normally off
- CAPSTAN™ Blended Pulse adaptability

#### Mounting

- New Modular Fluid Supply System
- Saddle mount to 1" boom pipe

#### ...and with remote on/off control version

- **Change spray rate from the operator seat!**
  - a three nozzle unit, for example, can be switched together with acceptable pressure variation for a constant application rate with speeds from 5 to 20 mph
- **Change nozzle style from the operator seat!**
  - change, for example, between flat fan and drift reduction nozzles as conditions warrant

#### Also introducing

##### Modular Fluid Supply System

- The modularity of a dry boom system and the flow capacity of a wet boom
- Hand tightenable, o-ring seals to stainless steel or economical polyethylene pipe section and various high flow supply fittings

### CHANGE NOZZLES FROM THE OPERATOR SEAT

The nozzle system - The concept of multiple nozzles has been with us for some time in the form of various rotary indexing types having from two to five or more nozzles. But in each case, only one nozzle is facing downward and is in a spray-ready position.

The new patented WILGER COMBO-RATE™ body is modular and any number can be easily assembled (without tools) and locked in place with a spring clip in the same location with each nozzle tip in a spray-ready position.

The bodies will be available only in the WILGER Radialock style to fit the convenient Combo-Jet DR spray directly. Caps are available to use conventional tips and screens. Also, the bodies have been designed to have approximately one fifth of the pressure drop of conventional current bodies - a major advantage for high capacity sprayers.

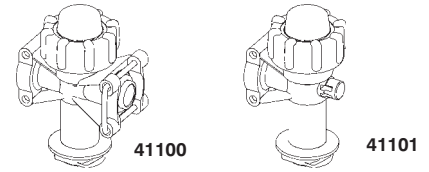
In the remote, air-activated configuration, each nozzle size or type can be activated from the operator seat. This opens a whole new realm of possibilities! Change nozzle size (rate) "on the go" to match desired speeds. Change nozzle types (drift reduction, for example) to match spraying conditions at the time. Avoid the time, inconvenience, and frustration of having to change or rotate each nozzle manually on the boom!



**Combo-Rate® Nozzle Components**

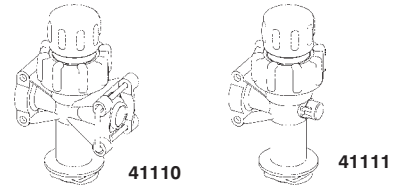
**DIAPHRAGM NOZZLE BODIES**

PART NO.	REPLACES	DESCRIPTION
79450	41100	Combo-Rate thru body assy, diaphragm check
79451	41101	Combo-Rate end body assy, diaphragm check



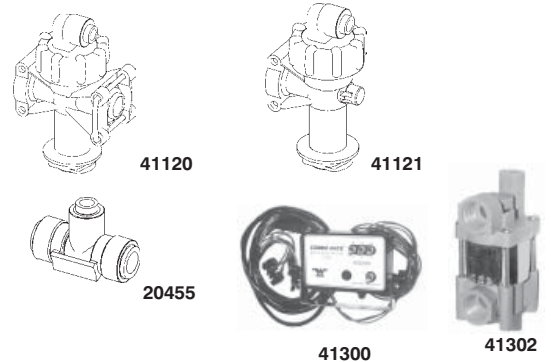
**MANUAL ON/OFF DIAPHRAGM NOZZLE BODIES**

PART NO.	REPLACES	DESCRIPTION
79452	41110	Combo-Rate thru body assy, manual on/off
79453	41111	Combo-Rate end body assy, manual on/off

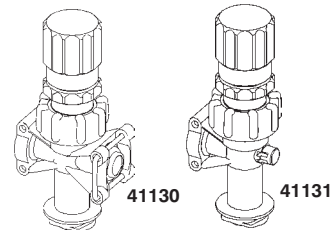


**AIR OPERATED NOZZLE BODIES & ACCESSORIES**

PART NO.	REPLACES	DESCRIPTION
79454	41120	Combo-Rate thru body assy, air operated
79341	41121	Combo-Rate end body assy, air operated
79342	20455	Air tee assy, 3/8 x 3/8 x 1/4
77998	20456	Adapter Assy 3/8 x 1/4
75416	20458-100	100 ft of 1/4" OD Poly tubing
75417	20459-100	100 ft of 3/8" OD Poly Tubing
79343	41300	Combo-Rate 3 solenoid control assy
79344	41301	Combo-Rate control extension cable - 20 ft.
79345	41302	Combo-Rate control solenoid

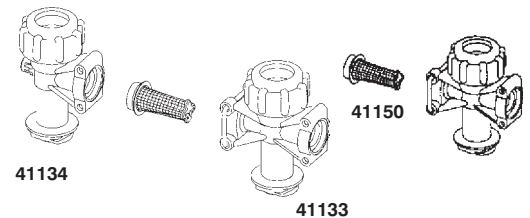


PART NO.	REPLACES	DESCRIPTION
79346	41130	Combo-Rate thru body assy, pressure relief valve
79347	41131	Combo-Rate end body assy, pressure relief valve



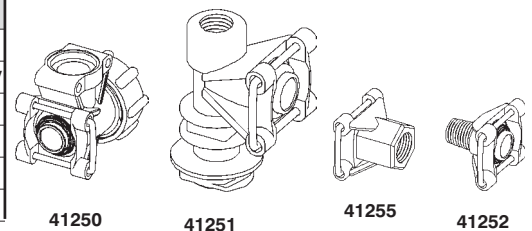
**CAPSTAN BLENDED PULSE NOZZLE BODIES**

PART NO.	REPLACES	DESCRIPTION
79348	41133	Combo-Rate thru body assy for Capstan operation
79349	41134	Combo-Rate end body assy for Capstan operation
79350	41135	Combo-Rate thru body assy, for Capstan (w/o nut)
79351	41136	Combo-Rate end body assy, for Capstan (w/o nut)
75737	41150	Interbody Strainer 50 mesh
75738	41151	Interbody Strainer 100 mesh



**NOZZLE BODY ACCESSORIES, COMBO-CLIP MOUNTED**

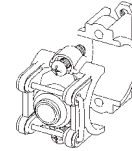
PART NO.	REPLACES	DESCRIPTION
79352	41250	Combo-Rate 90° diaphragm elbow m/fe assy
79353	41251	Combo-Clip/Radialock body/NPTF 1/4" NPT male adapter assy
79354	41252	Combo-Clip x 1/4" NPT male adapter assy
79355	41253	Combo-Clip x 3/8" NPT male adapter assy
79356	41255	Combo-clip x 1/4" NPT female adapter assy
79357	41256	Combo-Clip x 3/8" NPT female adapter assy



## Combo-Rate® Nozzle Components

### WET BOOM SADDLE FLUID SUPPLY SYSTEM

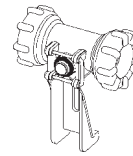
PART NO.	REPLACES	DESCRIPTION
79358	41200	Wet boom saddle assy, 1" pipe, 3/8" inlet
79359	41201	Wet boom saddle assy, 1" pipe, 9/16" high flow inlet
75735	41206	Wet boom saddle assy, 2" tube 9/16" inlet
75736	51204	Wet boom saddle assy, 2" tube 9/16" flush inlet



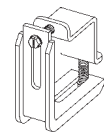
41200

### MODULAR FLUID SUPPLY SYSTEM

PART NO.	REPLACES	DESCRIPTION
79360	41210	MFS body assy, 1 1/4" tube, bracket mount
79361	41211	MFS body support bracket assy, stainless steel, 3/4 - 1 1/4"
79362	41212	MFS body support bracket assy, stainless steel, 1 1/2" - 2"



41210



41212

PART NO.	REPLACES	DESCRIPTION
79363	41213	MFS body support bracket assy, plated, 3/4 - 1 1/4"
79364	41214	MFS body support bracket assy, plated, 1 1/2" - 2"
79365	41215	MFS body assy 1 1/4" tube, gear clamp mount
79368	41220	MFS hose adapter, 1" straight
79369	41221	MFS hose adapter, 1" sweep 90 degree
79370	41225	MFS plug 1 1/4"
79371	41226	MFS inline tee assy, 1 1/4"
79372	41230	MFS tube, 1 1/4" stainless steel, for 20" spacing
79373	41231	MFS tube, 1 1/4" stainless steel, for 15" spacing
79374	41232	MFS tube, 1 1/4" stainless steel, for 10" spacing
79375	41240	MFS tube, 1 1/4" polyethelene, for 20" spacing
79376	41241	MFS tube, 1 1/4" polyethelene, for 15" spacing
79377	41242	MFS tube, 1 1/4" polyethelene, for 10" spacing
72048	40200	O-Ring
79455	20460	Lock-U-Clip



41215



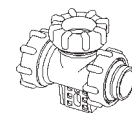
41225



41220



41221



41226



41230

**Nozzle Assemblies**

**HYPRO LURMARK EEZIFIT 2 WET BOOM**

- Wet boom fittings
- Quick release caps
- Low profile band clamp
- Will easily retrofit
- Right handed operation
- Quick release DCV
- Color coding
- No tools required
- Auto flat fan tip alignment

REF	PART NO.	REPLACES	DESCRIPTION
1	72000	13CA0027	Nozzle body, 1/2" (items 4, 6, & 7)
2	72001	13CA0029	Nozzle body, 3/4" (items 5, 6 & 7)
3	72003	15M-1540	Locking tab
4	72004	15M-1543	Clamp top 1/2"
5	72005	15M-1544	Clamp top 3/4"
6	72006	15M-1542	Seal grommet
7	72007	15M-1541	Body

**Common DCV Module & Components**

8	72002	13CA0030	Diaphragm check valve (DCV) module (items 9, 10 & 11)
9	72008	15M-1538	Body DCV
10	72009	15M-1539	Diaphragm (EPDM)
11	72010	13CA0026	Pressure disc assy.
12	72011	14Q-1819	Seal, washer

**Adapter & Lock Nuts**

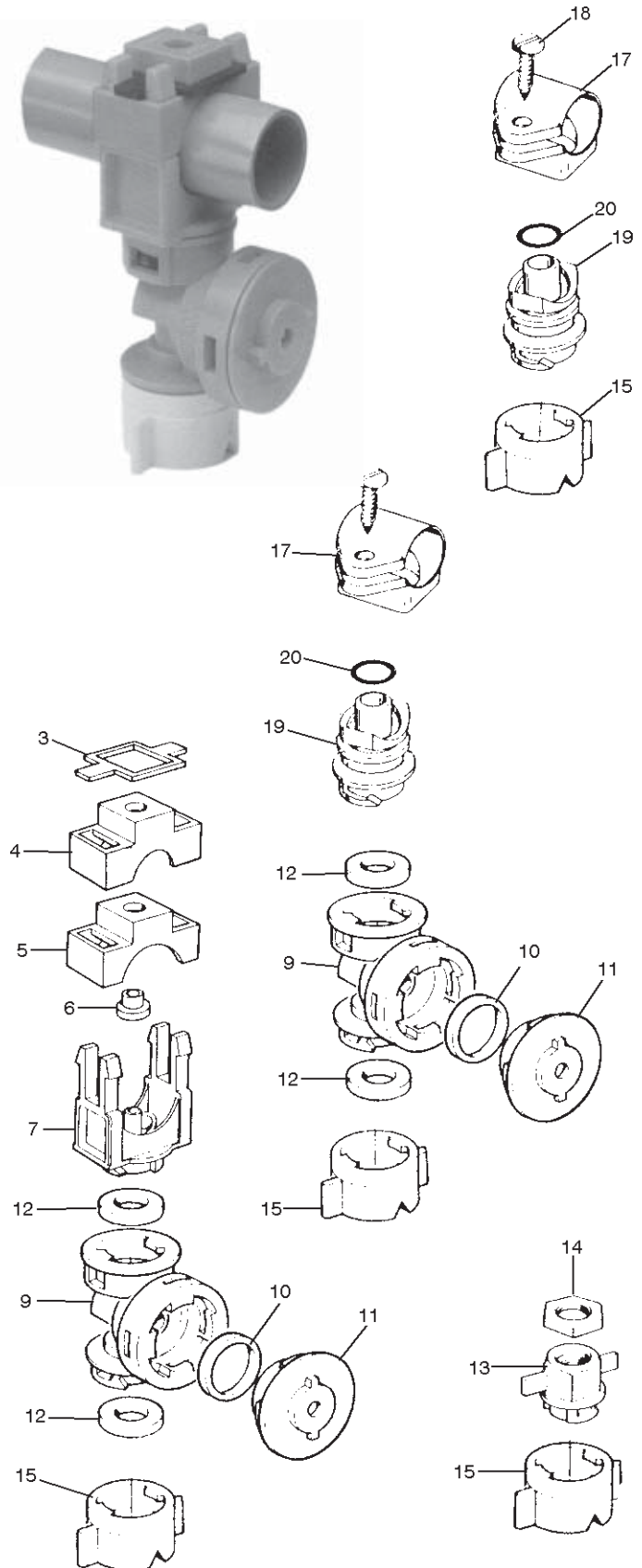
13	72039	15Q2647	Adapter 3/8"
13	72040	15Q2648	Adapter 18 mm
13	72012	15Q2649	Adapter, 11/16" UN
14	72532	B12	Lock nut, 11/16" UN

**Bayonet Caps**

15	72013	15PI1545	Pink cap
15	72014	15OR1545	Orange cap
15	72015	15YE1545	Yellow cap
15	72016	15OG1545	Olive green cap
15	72017	15RB1545	Royal blue cap
15	72018	15WH1545	White cap
15	72041	15RE1545	Red cap
15	72043	15MH1545	Black cap for flood type tip

**Clamps & Body**

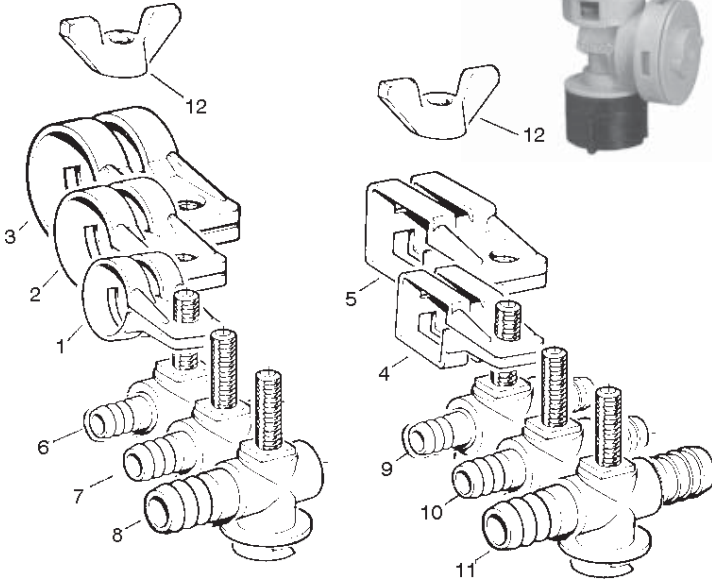
17	72019	15AQ2702	Band clamp, 1"
17	72020	15AQ2703	Band clamp, 1 1/4"
18	72021	15AQ2707	Screw
19	72022	15AQ2705	Body, long
19	72023	15AQ2704	Body, short
20	72107	15AQ2706	O-Ring
NS	72805	07EFDCG3	3 Hole Dribble Cap



**Nozzle Assemblies**

**HYPRO LURMARK EEZIFIT 2 DRY BOOM**

- Quick release caps
- Auto flat fan tip alignment
- Quick release DCV
- Color coding
- Versatile



REF	PART NO.	REPLACES	DESCRIPTION
1	72025	450Q2640	Clamp, round 3/4"
2	72026	450Q2626	Clamp, round 1"
3	72027	450Q2627	Clamp, round 1 1/4"
3	72028	450Q2653	Clamp, round 1 1/2"
4	72029	450Q2628	Clamp, square 1"
5	72030	450Q2629	Clamp, square 1 1/4"
5	72038	450Q2630	Clamp, square 1 1/2"
6	72031	145Q2635	Body, single hosetail 3/8"
7	72032	450Q2622	Body, single hosetail 1/2"
8	72033	450Q2623	Body, single hosetail 3/4"
9	72034	450Q2636	Body, twin hosetail 3/8"
10	72035	450Q2624	Body, twin hosetail 1/2"
11	72036	450Q2625	Body, twin hosetail 3/4"
12	72037	450Q2621	Wing nut

**Hypro Lurmark Twincap™**

TwinCap is a simple, compact way of accommodating two spray tips back to back. TwinCap will accept standard FanTips, low pressure FanTips, even spray FanTips and Lo-Drift nozzles. TwinCap will fit on to many different makes of nozzle bodies.

**Flexibility**

TwinCap allows you to apply the volume per acre you want, at the speed you want without compromising spray quality

**Accuracy**

TwinCap can help you to accurately target your chemical to where it is needed.

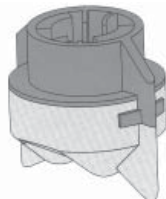
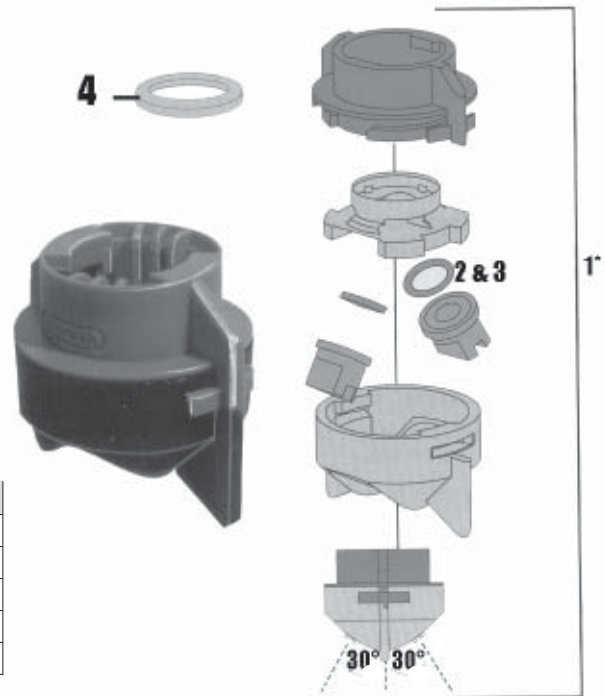
**Penetration**

Trials suggest the 'inclined' spraying gives better penetration, especially in broad leaf crops such as potatoes.

**Cover**

A combination of correct spray quality and accurate targeting will ensure good chemical coverage and efficiency.

REF	PART NO.	REPLACES	DESCRIPTION
1	73159	152607TC	TwinCap assembly, emerald green
2	73160	65-MN011x1.3	Internal O-Ring
3	73161	65-VBS012	Internal O-Ring, viton
4	73162	402200-040	Sealing washer
4	75149	6410-5198	Sealing washer Hardi



**FITS CONVENTIONAL NOZZLE BODIES**

**Delavan Dry Boom Components**

**DELA-FIT "T" & "L" ROTATION HOSE CONNECTOR BODIES FOR DRY BOOMS**

Dela-fit "T" and "L" hose connector bodies feature a top-mounting clamp post and built-in clamp guide for quick alignment on spray booms. This also eliminates nozzle body on the boom. This locknut, which secures the "T" and "L" bodies to the boom, is the brass locknut 72465 (1 1/16") currently used on standard thread "T" and "L" bodies. Available with diaphragm check valves as part of the body. This will provide instantaneous, dripfree shutoff at the nozzle with minimum pressure loss.



**DELA-FIT HOSE CONNECTOR BODIES**

PART NO.	REPLACES	SIZE & HOSE ID	DESCRIPTION
72260	50081	3/8" T	Nylon nozzle body
72256	45160	1/2" L	Nylon nozzle body
72258	45162	3/4" L	Nylon nozzle body
72465	04423-2		Brass nut

**DELA-FIT HOSE CONNECTOR BODIES WITH DIAPHRAGM CHECK VALVE**

PART NO.	REPLACES	SIZE & HOSE ID	DESCRIPTION
72272	47428-1	1/2" L (HB to the right*)	Nylon nozzle body
72273	47430-1	1/2" L (HB to the left*)	Nylon nozzle body
72274	47426-1	1/2" T	Nylon nozzle body
72276	47430-2	3/4" L (HB to the left*)	Nylon nozzle body
72277	47426-2	3/4" T	Nylon nozzle body
72465	04423-2		Brass nut

\* Hose barb is to the right or left when looking at the diaphragm check valve and with the outlet pointed down.

PART NO.	REPLACES	DESCRIPTION
72247	47598	Viton diaphragm
72262	45168	Spring module assy.

**Delavan Wet Boom Components**

**DELA-FIT EYELET BODIES, EYELET DIAPHRAGM CHECK VALVE BODIES**

Dela-Fit eyelet bodies feature a single screw eyelet clamp, hinged for easy placement and can be modified to fit either 1/2" or 3/4" boom pipe. If you change your boom pipe diameter, Dela-Fit changes with you. All eyelet bridge pieces can be replaced with a larger or smaller size. Standard nozzle strainers fit all Dela-Fit bodies. All Dela-Fit bodies are made of tough chemical-resistant nylon.

Available with diaphragm check valves as part of the body. This will provide instantaneous, drip-free shut-off at the nozzle with minimum pressure loss.



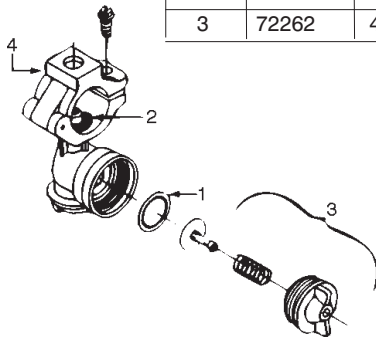
**1" EYELET DIAPHRAGM CHECK VALVE BODIES**

PART NO.	REPLACES	MATERIAL	PIPE SIZE	TUBING SIZE	DRILL SIZE FOR BOOM
72270	45858	Nylon	1"	1 1/4" OD	7/16"

**1/2" EYELET BODIES**

PART NO.	REPLACES	MATERIAL	PIPE SIZE	TUBING SIZE	DRILL SIZE FOR BOOM
72254	45150	Nylon	1/2"	3/4" OD	7/16"

REF	PART NO.	REPLACES	DESCRIPTION
1	72247	36042	Viton diaphragm
2	72204	4010-2	Stem seal
3	72262	45168	Spring module assy.



**Vari-Spacing Clamps**

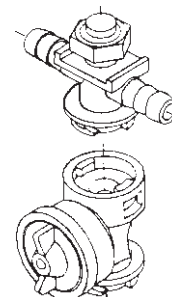
**DELA-FIT DIAPHRAGM CHECK VALVE MODULE**

**FOR DRY OR WET BOOMS**

Dela-Fit diaphragm check valve bodies and modules feature instantaneous, drip-free shut-off at the nozzle with minimum pressure loss.




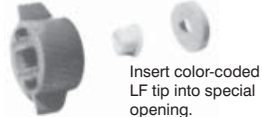

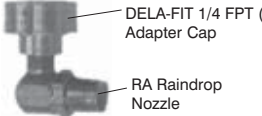

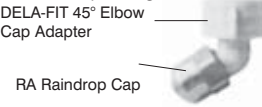
PART NO.	REPLACES	SEAL MATERIAL	DESCRIPTION
72266	45172-2	EPDM	Seal
72265	45172-1	Viton	Seal



Use with DELA-FIT "T" & "L" Hose Con. Bodies or with DELA-FIT Eyelet Bodies

**Delavan Nozzle Caps**

**DELA-FIT QUICK-ATTACH, SELF-ALIGNING NOZZLE CAPS WITH NEW, IMPROVED SEAL FOR EASIER ASSEMBLY**

NOZZLE CAPS	PART NO.	REPLACES	DESCRIPTION	NOZZLE TYPE	NOZZLE TIP & DELA-FIT NOZZLE CAP INSTALLATION
<p>LF Self Aligning</p> 	72267	45173-1	<p>LF Tip Only - Self Aligning Nozzle Cap -with seal (EPDM)</p> <p>The self-aligning feature automatically aligns the LF tips along the spray boom. Each nozzle cap is slightly askew so the spray patterns will never impinge on each other. Made of nylon.</p>	LF Flat Fan LFR Raindrop Flat Fan	<p>Press in EPDM seal after tip is inserted.</p>  <p>Insert color-coded LF tip into special opening.</p>
<p>1/4 FPT (F) Adapter</p> 	72282 72283	50023-1 50023-2	<p>1/4FPT(F) Adapter Cap for RA Raindrop and WRW WhirlRain Nozzles -with seal (EPDM) -with seal (Viton)</p> <p>Directly mount right-angle nozzle with 1/4 MPT (M) inlets with this adapter cap on DELA-FIT bodies. Made of nylon.</p>	RA Raindrop WRW Hollow Cone (45°-90° nozzle position are recommended for these nozzles)	<p>Screw these parts together</p>  <p>DELA-FIT 1/4 FPT (F) Adapter Cap RA Raindrop Nozzle</p>
<p>45° Threaded Adapter 11/16</p> 	72284 72285	45175-1 45175-2	<p>45° Elbow Cap Adapter -with 2 seals (EPDM) -with 2 seals (Viton)</p> <p>It sets all tips used with it at a 45° angle. Made of nylon</p>	RD Raindrop Cap with disc/core (45°-90° nozzle Position are recommended for these nozzles)	<p>Screw these parts together.</p>  <p>DELA-FIT 45° Elbow Cap Adapter RA Raindrop Cap</p>
<p>Seal -</p>	72266 72265	45172-2 45172-1	<p>EPDM Seal, Standard* - Max. Pressure: 70 psig (483 kPa) Viton Seal, Optional* - Max. Pressure: 125 psig (860 kPa) *two seals are required for the Elbow Cap Adapter</p>		

**Hypro Arag Nozzle Bodies for Dry Booms**



PART NO.	REPLACES	DESCRIPTION
73660	41342W7-1	Single 1/2" 3 way nozzle assembly
75746	41342W7-2	Double 1/2" 3 way nozzle assembly
73661	41342Y7-1	Single 3/4" 3 way nozzle assembly
75747	41342Y7-2	Double 3/4" 3 way nozzle assembly
73662	41342K7-1	Single 1" 3 way nozzle assembly
75748	41342K7-2	Double 1" 3 way nozzle assembly



PART NO.	REPLACES	DESCRIPTION
73663	41347W7-1	Single 1/2" 4 way nozzle assembly
75749	41347W7-2	Double 1/2" 4 way nozzle assembly
73664	41347Y7-1	Single 3/4" 4 way nozzle assembly
75750	41347Y7-2	Double 3/4" 4 way nozzle assembly
73665	41347K7-1	Single 1" 4 way nozzle assembly
75751	41347K7-2	Double 1" 4 way nozzle assembly

**SHOWN WITH CAPS**



PART NO.	REPLACES	DESCRIPTION
73666	41349W7-1	Single 1/2" 5 way nozzle assembly
73752	41349W7-2	Double 1/2" 5 way nozzle assembly
73667	41349Y7-1	Single 3/4" 5 way nozzle assembly
73753	41349Y7-2	Double 3/4" 5 way nozzle assembly
73668	41349K7-1	Single 1" 5 way nozzle assembly
73754	41349K7-2	Double 1" 5 way nozzle assembly

**PARTS BREAKDOWN SEE PAGE 4-34**



PART NO.	REPLACES	DESCRIPTION
73669	426 413	1/2" hose fitting for dry booms
73670	426 519	3/4" hose fitting for dry booms
73671	426 625	1" hose fitting for dry booms

**SEE PAGE 4-9 FOR CAPS AND GASKETS**



PART NO.	REPLACES	DESCRIPTION
73672	427 413	1/2" hose fitting for dry booms
73673	427 519	3/4" hose fitting for dry booms
73674	427 625	1" hose fitting for dry booms



1



2



3

REF	PART NO.	REPLACES	DESCRIPTION
1	73675	005860.036	Diaphragm only EPDM
1	73676	005865.036	Diaphragm only Viton
2	73678	2002030	Retainer nut
3	73677	402002-130	8# check valve-red (std)



**Hypro Arag Nozzle Bodies for Dry Booms**



FITS HOSE I.D.	PART NO.	SINGLE	PART NO.	DOUBLE
3/8"	75755	413111	75756	413121
1/2"	75757	413112	75758	413122
3/4"	75759	413113	75760	413123



FITS HOSE I.D.	PART NO.	SINGLE	PART NO.	DOUBLE
3/8"	75761	413211	75762	413221
1/2"	75763	413212	75764	413222
3/4"	75765	413213	75766	413223



FITS HOSE I.D.	PART NO.	SINGLE	PART NO.	DOUBLE
3/8"	75767	413411	75768	413421
1/2"	75769	413412	75770	413422
3/4"	75771	413413	75772	413423

**Hose Shank Diaphragm Check Valve Triple Nozzle Bodies**



FITS HOSE I.D.	PART NO.	SINGLE	PART NO.	DOUBLE
1/2"	75773	4133212	75774	4133222
3/4"	75775	4133213	75776	4133223

**SEE PAGE 4-9 FOR CAPS AND GASKETS**

## Hypro Arag Nozzle Bodies for Wet Booms



PART NO.	REPLACES	DESCRIPTION
73685	40642W7	1/2" 3 way nozzle assembly
73686	40642Y7	3/4" 3 way nozzle assembly
73687	40642K7	1" 3 way nozzle assembly



PART NO.	REPLACES	DESCRIPTION
73688	40647W7	1/2" 4 way nozzle assembly
73689	40647Y7	3/4" 4 way nozzle assembly
73690	40647K7	1" 4 way nozzle assembly



PART NO.	REPLACES	DESCRIPTION
73691	40649W7	1/2" 5 way nozzle assembly
73692	40649Y7	3/4" 5 way nozzle assembly
73693	40649K7	1" 5 way nozzle assembly

**SHOWN WITH CAPS**

**PARTS BREAKDOWN SEE PAGE 4-34**

**SEE PAGE 4-9 FOR CAPS AND GASKETS**

**Hypro Arag Nozzle Bodies for Wet Booms**



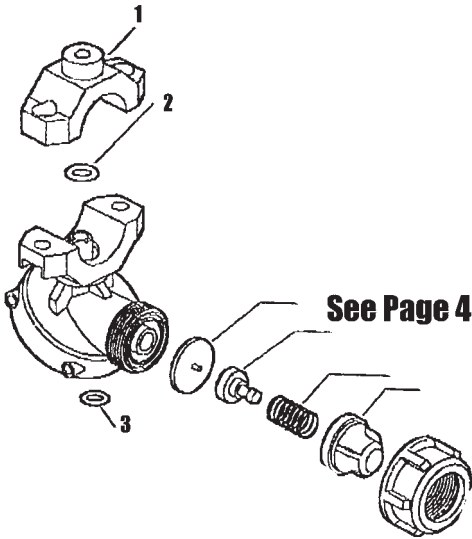
Clamp type nozzle holder with diaphragm check valve and quick coupling (cap not included)

PART NO.	REPLACES	DESCRIPTION
73679	402 245	1/2" single nozzle assy. wet boom
73680	402 255	3/4" single nozzle assy. wet boom
73681	402 265	1" single nozzle assy. wet boom



3-way sprayer nozzle holder with diaphragm check valve

PART NO.	REPLACES	DESCRIPTION
73682	4012 245	1/2" triple nozzle assy. wet boom
73683	4012 255	3/4" triple nozzle assy. wet boom
73684	4012 265	1" triple nozzle assy. wet boom



**FOR CAPS AND GASKETS SEE PAGE 4-9**

REF. NO.	PART NO.	REPLACES	DESCRIPTION
3	77989	403000.050	O-Ring
2	74920	400020.030	O-Ring 7 mm
2	75152	400040.030	O-Ring 10 mm
1	75153	400030.020	1/2" Top Bridge
1	75154	400050.020	3/4" Top Bridge
1	75155	400060.020	1" Top Bridge

**Boom X Tender® Spray Tips**



**FOR MORE INFORMATION SEE PAGE 3-48**

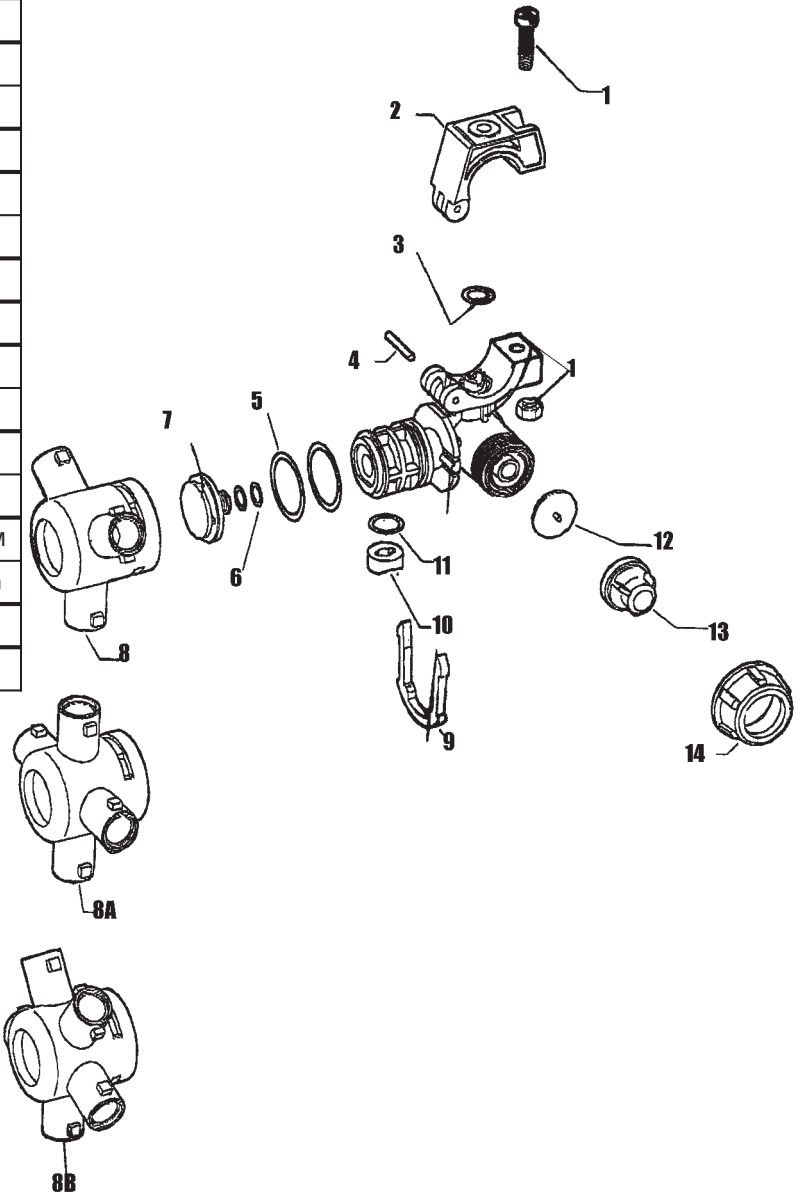
PART NO.	REPLACES	COLOR	SWATH	PSI
75777	PK-XT010 1/4"	Green	F15	30-60
75778	PK-XT020 1/4"	Blue	F17	30-60
75779	PK-XT024 1/4"	Yellow	F18	30-60
75780	PK-XT043 3/8"	Orange	F20	30-60
75781	PK-XT080 1/2"	Red	F21	30-60

**WET BOOM BLANKS - NYLON**

PART NO.	REPLACES	DESCRIPTION
75782	400059	3/4" Nylon
75783	400069	1" Nylon

**Hypro Arag Nozzle Body Breakdowns**

Reference	Part Number	Replaces	Description
1	74921	V400101	Bolt and Nut
2	74922	400535020	1/2" Bridge
2	74923	400557020	3/4" Bridge
2	74924	400567020	1" Bridge
3	74920	400020030	7 mm O-Ring
3	75152	400040030	10 mm O-Ring
4	74925	400530040	Pin
5	74926	4062000060	Gasket EPDM
5	74927	406200060V	Gasket Viton
6	74928	465910070	O-Ring EPDM
6	74929	465910070V	O-Ring Viton
7	74930	4064000030	Button
8	74931	4064200020	Turret 3 outlets
8A	74932	4064700020	Turret 4 outlets
8B	74933	4064900020	Turret 5 outlets
9	74934	4062000040	Clip
10	74935	4062000050	Gasket EPDM
10	74936	4062000050V	Gasket Viton
11	74937	G10021	O-Ring EPDM
11	74938	G10021V	O-Ring Viton
12	73675	005860036	Diaphragm only EPDM
12	73676	005865036V	Diaphragm only Viton
13	73677	402002130	Check Valve Red
14	73678	2002030	Retainer Nut



**Nozzle Assemblies & Parts**

**SPLIT-EYELET CONNECTORS**

For attaching gauges, drop hoses and nozzles 1/4" FPT (F) outlet connection.



ITEM	PART NO.	REPLACES	DESCRIPTION
1	*72467	7521A-3/4x1/4	Female split eyelet connector, brass body, fits 3/4" pipe
1	*72468	7521A-1/2x1/4	Female split eyelet connector, brass body, fits 1/2" pipe



ITEM	PART NO.	REPLACES	DESCRIPTION
2	*72469	7421-1T	Male split eyelet connector, brass body, fits 1" pipe
2	*72200	7421-3/4T	Male split eyelet connector, brass body, fits 3/4" pipe
2	*72201	7421-1/2T	Male split eyelet connector, brass body, fits 1/2" pipe
2	*72470	7421-1T-NYB	Male split eyelet connector, nylon body, fits 1" pipe
2	*72471	7421-3/4-TNYB	Male split eyelet connector, nylon body, fits 3/4" pipe
2	*72472	7421-1/2-TNYB	Male split eyelet connector, nylon body, fits 1/2" pipe



ITEM	PART NO.	REPLACES	DESCRIPTION
3	*72473	7421-3/4-TD	Split eyelet nozzle for angle-iron boom, fits 3/4" pipe
3	*72474	7421-1/2-TD	Split eyelet nozzle for angle-iron boom, fits 1/2" pipe



ITEM	PART NO.	REPLACES	DESCRIPTION
4	72475	CP7418-BU	Gasket, Buna-N



ITEM	PART NO.	REPLACES	DESCRIPTION
5	72476	CP7417	Body, brass (for item #2)
5	72477	CP8057-NYB	Body, nylon (for item #2)



ITEM	PART NO.	REPLACES	DESCRIPTION
6	72478	CP7528	Body, brass with 1/4" thread (for item #1)
6	72479	CP7529	Body, brass with 1/8" thread (for item #1)



ITEM	PART NO.	REPLACES	DESCRIPTION
7	72202	25775-3/4T-NYB	Nylon eyelet, less cap & tip, fits 3/4" pipe
7	72203	25775-1/2T-NYB	Nylon eyelet, less cap & tip, fits 1/2" pipe
7	75784	25775-1T-NYB	Nylon eyelet, less cap & tip, fits 1" pipe
7A	72322	CP7717-2/110-BU	Stem seal (for item #7)

\* Less cap & tip

**Nozzle Assemblies & Parts**



ITEM	PART NO.	REPLACES	DESCRIPTION
8	72480	8121NYB-406TD	Nylon L connector, less cap & tip, fits 3/8" hose
8	72205	10370	Nylon L connector, less cap & tip, fits 1/2" hose
8	72481	58L	Nylon L connector, less cap & tip, fits 3/8" hose
8	72482	34L	Nylon L connector, less cap & tip, fits 3/4" hose
8	72483	100L	Nylon L connector, less cap & tip, fits 1" hose
8	72484	6471-A400TD	Brass L connector, less cap & tip, fits 3/8" hose
8	72486	9191-A531TD	Brass L connector, less cap & tip, fits 1/2" hose



ITEM	PART NO.	REPLACES	DESCRIPTION
9	72488	8120NYB-406TD	Nylon T connector, less cap & tip, fits 3/8" hose
9	72206	10369	Nylon T connector, less cap & tip, fits 1/2" hose
9	72489	58T	Nylon T connector, less cap & tip, fits 3/8" hose
9	72490	34T	Nylon T connector, less cap & tip, fits 3/4" hose
9	72491	100T	Nylon T connector, less cap & tip, fits 1" hose
9	72485	6472-A400TD	Brass T connector, less cap & tip, fits 3/8" hose
9	72487	9192-A531TD	Brass T connector, less cap & tip, fits 1/2" hose



ITEM	PART NO.	REPLACES	DESCRIPTION
10	72492	T38-C	Nylon cross connector less cap & tip, fits 3/8" hose
10	72493	T12-C	Nylon cross connector less cap & tip, fits 1/2" hose
10	72560	T34-C	Nylon cross connector less cap & tip, fits 3/4" hose



ITEM	PART NO.	REPLACES	DESCRIPTION
11	72494	12670-406TD	Nylon nozzle body w/locknut x 3/8" hose barb
11	72495	3812-DA	Nylon nozzle body w/locknut x 1/2" hose barb
11	73164	T04ST	Nylon nozzle body w/locknut x 3/4" hose barb
11	72209	8491	Brass nozzle body w/locknut x 3/8" hose barb



ITEM	PART NO.	REPLACES	DESCRIPTION
12	72532	T03NT	Nylon lock nut w/female NPS thread
12	72465	CP5609	Brass lock nut
12	72466	CP5609-ALEF	Aluminum lock nut



ITEM	PART NO.	REPLACES	DESCRIPTION
13	72400	CP8027-NYB	Nylon nozzle cap



ITEM	PART NO.	REPLACES	DESCRIPTION
14	72210	CP1325	Brass nozzle cap
14	74332	CP1325-AL	Aluminum nozzle cap
14	71999	CP20230	Brass Nozzle Cap (Deep)



PART NO.	DESCRIPTION
74062	1/4 HB (insert)
73523	3/8 HB (insert)
73524	1/2 HB (insert)

Flat seat inserts to fit nozzle caps items 13, 14, 15



ITEM	PART NO.	REPLACES	DESCRIPTION
15	72211	T03WG	Nylon winged nozzle cap



ITEM	PART NO.	REPLACES	DESCRIPTION
16	72637	8028	Tip blank off cap

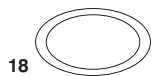


ITEM	PART NO.	REPLACES	DESCRIPTION
17	72635	CP3942	Tip blank brass
17	72638	T03PL	Tip blank nylon



ITEM	PART NO.	REPLACES	DESCRIPTION
17A	75782	400059	3/4" Nylon
17A	75783	400069	1" Nylon

**Nozzle Assemblies & Parts**



ITEM	PART NO.	REPLACES	DESCRIPTION
18	74314	CP4743-TEF	Poly gasket for caps. Where a loose fit may cause leakage



ITEM	PART NO.	REPLACES	DESCRIPTION
19*	72497	CP4214	500TLW body 1/2" eyelet for copper boom



ITEM	PART NO.	REPLACES	DESCRIPTION
20	72498	CP4190-BU	Gasket for 500TLW



ITEM	PART NO.	REPLACES	DESCRIPTION
21	72499	CP4066	Lockscrew for 500TLW



ITEM	PART NO.	REPLACES	DESCRIPTION
22	72906	4067-SS-50	Stainless steel cup filter 50 mesh
22	72907	4067-SS-100	Stainless steel cup filter 100 mesh



ITEM	PART NO.	REPLACES	DESCRIPTION
23	72207	4676-1/8	Brass adapter, same thread as nozzle cap - replaces nozzle cap to provide 1/8" outlet
23	72208	4676-1/4	Brass adapter, same thread as nozzle cap - replaces nozzle cap to provide 1/4" outlet
23	73171	4676-3/8	Brass adapter, same thread as nozzle cap - replaces nozzle cap to provide 3/8" outlet
23	72413	4676-NYB-1/4	Nylon adapter, same thread as nozzle cap - replaces nozzle cap to provide 1/4" outlet



ITEM	PART NO.	REPLACES	TO CLAMP ON
24	72463	AA111-1/2	1/2" pipe (13/16" & 7/8" OD tubings)
24	72240	AA111-3/4	3/4" pipe (1" & 1 1/16" OD tubings)
24	72241	AA111-1	1" pipe (1 1/8", 1 1/4" & 1 3/8" OD tubings)
24	72456	AA111-1 1/4	1 1/4" pipe (1 9/16" & 1 11/16" OD tubing)



ITEM	PART NO.	REPLACES	DESCRIPTION
25	72242	AA111SQ-1	1" square tubing
25	72457	AA111SQ-1 1/4	1 1/4" square tubing
25	72459	AA111SQ-1 1/2	1 1/2" square tubing



ITEM	PART NO.	REPLACES	DESCRIPTION
26	72243	45146-1	Upper & lower clamp for 1 1/4" square tube

**45146 Series**

"Quick-Clamp" boom clamps simplify installation. Just position tang (angled metal piece) into the opposing slot and pull together around boom. Insert "T" or "L" body and tighten retaining nut

\* Less tip & cap

**Nozzle Assemblies & Parts**



ITEM	PART NO.	REPLACES	DESCRIPTION
27	72464	B11-1	One piece nylon clamp for 1" square tube
27	72546	B11-114	One piece nylon 1 1/4" clamp for 1 1/4" square tube



ITEM	PART NO.	REPLACES	DESCRIPTION
28	72800	5272351	Snap-on clamp c/w 1/2" QJ elbow (clamp, elbow #72429) page 4-3
28	72801	5272354	Snap-on clamp c/w 3/4" QJ elbow (clamp, elbow #72430) page 4-3



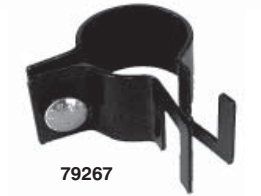
ITEM	PART NO.	REPLACES	DESCRIPTION
29	72802	5272350	Snap-on clamp c/w 1/2" QJ tee (clamp, tee #72431) page 4-3
29	72803	5272353	Snap-on clamp c/w 3/4" QJ tee (clamp, tee #72432) page 4-3
	72804	5272374	Snap on clamp only



ITEM	PART NO.	REPLACES	DESCRIPTION
30	73008	QJ111-1/2	1/2" pipe (7/8" & 13/16" OD tubing)
30	72433	QJ111-3/4	3/4" pipe (1" & 1 1/16" OD tubing)
30	72434	QJ111-1	1" pipe (1 1/8", 1 1/4" & 1 3/8" OD tubing)
30	72344	QJ111-1 1/4	1 1/4" pipe (1 9/16" & 1 11/16" OD tubing)
30	79267	—	1 1/2" RD for Spray Coupe (black)
30A	75685	QJ111HP-3/4	3/4" Pipe (1" & 1 1/16" OD tubing)



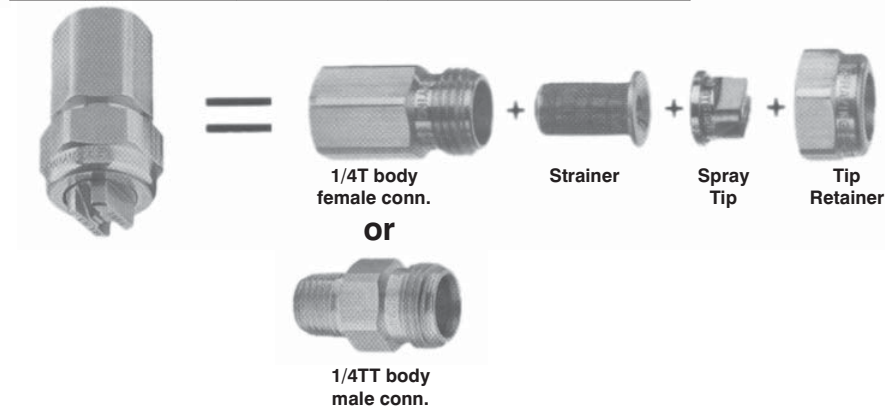
ITEM	PART NO.	REPLACES	DESCRIPTION
31	73009	QJ111SQ-3/4	3/4" square tubing
31	72435	QJ111SQ-1	1" square tubing
31	72436	QJ111SQ-1 1/4	1 1/4" square tubing
31	72437	QJ111SQ-1 1/2	1 1/2" square tubing



ITEM	PART NO.	REPLACES	DESCRIPTION
32	72500	CP1336	1/8" TT male brass body
32	72589	NB1618	1/8" TT male nylon body
32	72501	CP1322	1/4" TT male brass body
32	72544	CP8028NYB	1/4" TT male nylon body
32	72591	NB1612	1/2" TT male nylon body



ITEM	PART NO.	REPLACES	DESCRIPTION
33	72506	CP1335	1/8" T female brass body
33	72507	CP1321	1/4" T female brass body
33	72598	CP1321-AL	1/4" T female alum body
33	72508	CP12094-NYB	1/4" T female nylon body





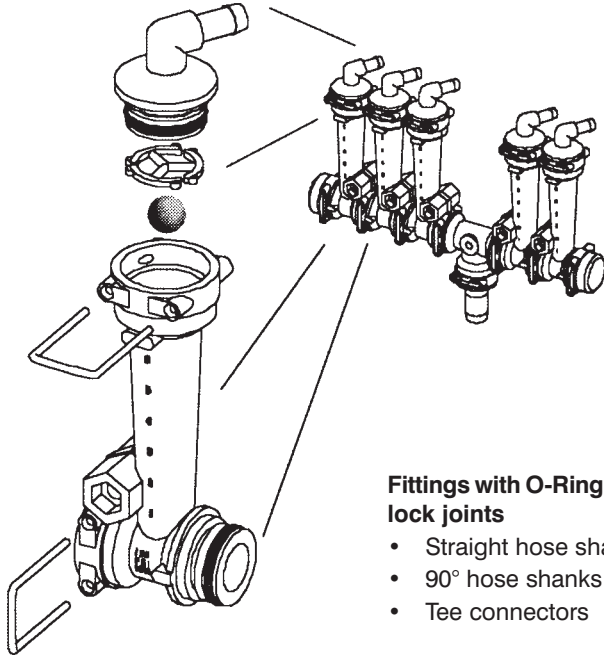
**Monitor Sprayer Nozzle Function**



**EXCLUSIVE INDIVIDUAL COLUMN FLOW INDICATORS WITH O-RING SEAL, CLIP LOCK JOINTS**

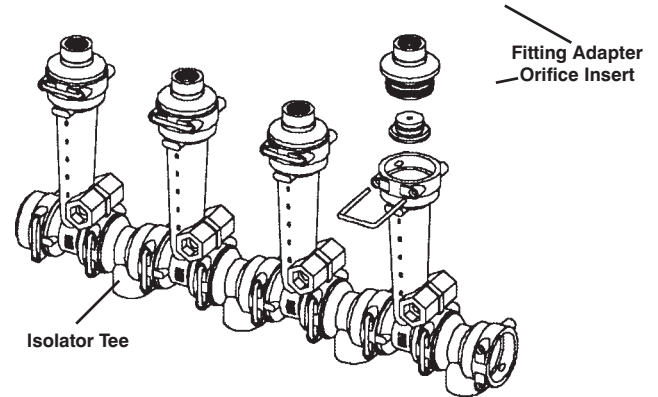
- Customize to your exact needs
- Convenient for service and repair

- 3/8" FPT Fe inlet isolator tee to join columns
- 1/4" FPT Fe outlet adapters for tubing fittings
- Flow control orifice inserts available in large range of sizes



**Fittings with O-Ring seal, clip lock joints**

- Straight hose shanks
- 90° hose shanks
- Tee connectors

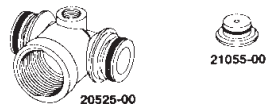
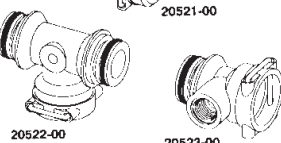
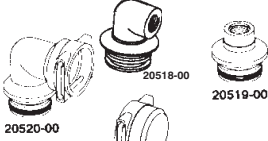
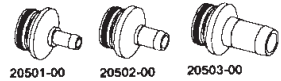
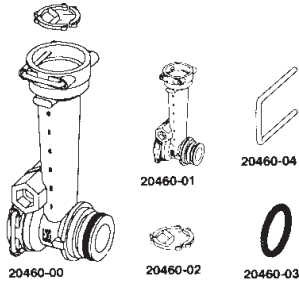


**How They Work**

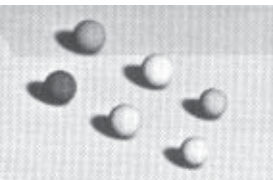
- Each indicator column supplies up to three nozzle tips
- In operation, balls hover at about the same level, depending on the flow rate
- A ball lower than the others indicates a plugged tip supplied by that column

- Caps, street elbows
- No electronic components to cause problems
- Choose from selection of ball weights to match combined nozzle flow from each column
- 100 PSI maximum operating pressure

**Modular Flow Indicator & Components**



PART NO BUNA-N	REPLACES BUNA-N	PART NO. VITON	REPLACES VITON	DESCRIPTION
79423	20460-00	79456	20460-V0	<b>Flow Indicator Assembly and Parts</b> Flow indicator assembly (includes body, ball retainer, O-Ring seal two lock u-clips; and black, green, red, and stainless steel balls)
79417	20460-01	-	-	Flow indicator body
79455	20460-04	-	-	Lock u-clip, 302SS
79418	20460-02	-	-	Ball retainer
79422	20460-03	79457	20460-15	O-Ring #212 (for indicator body and fittings)
79425	40225-04	79458	40225-05	O-Ring #015 (for orifice inserts)
79427	20501-00	79459	20501-V0	<b>Flow Indicator O-Ring Seal Fittings Assemblies</b> (include required seals and/or lock u-clips) <b>Hose Shank Adapters</b> ORS x hose shank straight - 3/8"
79488	20502-00	79479	20502-V0	ORS x hose shank straight - 1/2"
79489	20503-00	79473	20503-V0	ORS x hose shank straight - 3/4"
79426	20511-00	79474	20511-V0	ORS x hose shank - 90° - 3/8"
79421	20512-00	79475	20512-V0	ORS x hose shank - 90° - 1/2"
79424	20513-00	79476	20513-V0	ORS x hose shank - 90° - 3/4"
79490	20519-00	79477	20519-V0	<b>1/4" NPT Fitting Adapter</b> ORS Male x 1/4" NPT FE
75739	20518-00	75740	20518-V0	<b>Street Elbow</b> 1/4" NPT Fiting Adapter ORS Male X 1/4 NPT FE 90°
79491	20520-00	79478	20520-V0	ORS Male x ORS female - 90°
79420	20521-00	79420	20521-00	<b>End Cap</b> ORS Cap
79492	20522-00	79480	20522-V0	Connector Tees ORS male x ORS male x ORS female - tee
79493	20523-00	79481	20523-V0	ORS male x ORS female (blind) x 3/8" NPT FE isolator tee
79419	20525-00	79482	20525-V0	ORS male x ORS male x 1" NPT FE - tee
79494	21000-00	79483	21000-V0	<b>Flow Metering Orifice Plates (additional sizes available)</b> Orifice insert assy - blank
79495	21025-00	79484	21025-V0	Orifice insert assy - 0.025 dia. orifice
79496	21055-00	79485	21055-V0	Orifice insert assy - 0.055 dia. orifice
79442	21104-00	79486	21104-V0	Orifice insert assy - 0.104 dia. orifice
79443	21250-00	79487	21250-V0	Orifice insert assy - 0.250 dia. orifice



PART NO.	REPLACES	FLOW RATE PER COLUMN US GPM(WATER)	DESCRIPTION
79444	20460-09	0.03-0.09	Ball - flow indicator - black polypropolyene
79445	20460-08	0.05-0.18	Ball - flow indicator - green polypropolyene
79446	20460-07	0.09-0.30	Ball - flow indicator - red celcon
79447	20460-06	0.31-0.72	Ball - flow indicator - blue glass
79448	20460-05	0.40-1.33	Ball - flow indicator - 1/2" stainless steel 302
79449	20460-10	1.00-2.70	Ball - flow indicator - 7/16" stainless steel 302

**Quick TeeJet Adapters for Retrofitting**



**QJ8355-NYB**

- Allows use of Quick TeeJet from 1/4" NPT male connections
- Side mounting provides protection of the nozzle body
- Includes ChemSaver no drip shut-off. Requires 10 PSI at the nozzle to open check valve
- Standard diaphragm of EPDM
- Maximum operating pressure of 300 PSI

PART NO.	REPLACES
73165	QJ8355-1/8-NYB
72539	QJ8355-1/4-NYB



**8355**

- Made of nylon with nylon/polypropylene end cap assembly. Check valve opens at 10 PSI pressure. Choice of 1/8" or 1/4" FPT inlet connection. For flow rates up to 2 1/2 GPM. Overall length 2 1/2". Weight 1 1/2 ounces.

PART NO.	REPLACES
72356	8355-1/4-NYB
72357	8355-1/8-NYB



**QJ8360-NYB**

- Allows use of Quick TeeJet Systems from 1/4" NPT female connection
- Includes ChemSaver no drip shut-off. Requires 10 PSI at the nozzle to open check valve
- Standard diaphragm of EPDM
- Maximum operating pressure of 300 PSI

PART NO.	REPLACES
72444	QJ8360-NYB



**QJT8360-NYB**

- Permits use of Quick TeeJet System with standard 11/16"-16 TeeJet thread
- Includes ChemSaver no drip shut-off. Requires 10 PSI at the nozzle to open check valve.
- Standard diaphragm of EPDM
- Maximum operating pressure of 300 PSI

PART NO.	REPLACES
72445	QJT8360-NYB
78396	CP20266-EPD17 Gasket



72414



72409  
72410  
72411  
72415  
72416



72413  
72208

11/16" x 1/4"

PART NO.	REPLACES	DESCRIPTION
72414	21950-10-NYB	ChemSaver end cap
72415	CP21953-EPR	Diaphragm, EPDM rubber
72416	CP21953-VI	Diaphragm, Viton
72409	CP4620-FA	Diaphragm, fairprene
72410	CP6227-TEF	Diaphragm, teflon, use with 4620-FA
72411	CP4620-VI	Diaphragm, Viton
72208	4676- 1/4	1/4" brass adapter
72413	4676-NYB-1/4	1/4" nylon adapter

## Quick TeeJet Adapters for Retrofitting



### 8360

Made of nylon with nylon/polypropylene end cap assembly. Check valve opens at 10 PSI pressure. 1/4" MPT inlet connection. For flow rates up to 2 GPM. Overall length 2".

PART NO.	REPLACES	DESCRIPTION
72401	8360-NYB	Check Valve Assy



### 12328-NYB

Made of nylon with celcon bonnet. Check valve opens at 7 PSI pressure. (M) inlet connection and (F) outlet connection. Choice of 1/2" and 3/4" NPT sizes. Large capacity flow rates . . . up to 10 GPM for 1/2" NPT size . . . up to 15 GPM for 3/4" NPT size. Overall length 3".

PART NO.	REPLACES	DESCRIPTION
72908	12328-1/2-NYB	1/2" nylon check valve
72909	12328-3/4-NYB	3/4" nylon check valve



### 13430

Nylon with polypropylene retainer ring. Single, double or triple hose connection for 3/8" or 1/2" hose ID. For flow rates to 3 gpm. Opening pressure 7 PSI. Choice of in-line or right angle type design. Outlet connection with 1 1/16" - 16 male thread for CP8027-NYB TeeJet cap. For pressure to 125 PSI.

PART NO.	REPLACES	DESCRIPTION
72402	13430-1L-406	L valve, left, fits 3/8" hose
72403	13430-1R-406	L valve, right, fits 3/8" hose
72404	13430-2-406	T valve, fits 3/8" hose
72405	13430-1L-540	L valve, left, fits 1/2" hose
72406	13430-1R-540	L valve, right, fits 1/2" hose
72407	13430-2-540	T valve, fits 1/2" hose
73166	13430-3-406-NYB	Cross valve 3/8" hose
72408	13430-3-540	Cross valve, 1/2" hose
72400	CP8027-NYB	Nylon nozzle cap
72210	CP1325	Brass nozzle cap
72211	T03WG	Winged nylon nozzle cap

## TEEJET OUTLET FITTINGS

These fittings replace spray tips and are used for attaching drop pipes to nozzle bodies or adding extensions to No. 23 and 31 GunJet spray guns and tripper valves.



### CP4928 ADAPTER

Brass. Length 1". 1/8" NPT female outlet connection.

PART NO.	REPLACES
73168	CP4928



### CP6250 ADAPTER

Brass. Length 9/16". 1/8" NPT female outlet connection.

PART NO.	REPLACES
73167	CP6250



### 4676 TEEJET OUTLET ADAPTERS (BRASS)

Fits the outlets of TeeJet nozzle bodies as well as the outlet of various GunJet spray guns and shutoff valves. Replaces CP1325 TeeJet cap. Used for attaching hose drops to nozzles or extensions to spray guns.

PART NO.	REPLACES	OUTLET DIAMETER
72207	4676-NP-1/8	1/8"
72208	4676-NP-1/4	1/4"
73171	4676-NP-3/8	3/8"

**Quick TeeJet Adapters for Retrofitting**



**45° NOZZLE BODY**

Ideal for use with FullJet and FloodJet nozzles. Inlet is 1/4" NPT (M). Outlet is 1 1/16"-16(M).

PART NO.	REPLACES
72355	22669-1/4-PPB



**22674-1/4-NYB**

Allows use of Quick TeeJet system with 1/4" NPT female connections.

PART NO.	REPLACES
72353	22674-1/4-NYB



**QJ1/4TT-NYB**

- Allows use of Quick TeeJet Systems with 1/4" NPT female connections
- Maximum operating pressure of 300 PSI

PART NO.	REPLACES
72443	QJ1/4TT-NYB



**QJ1/4T-NYB**

- Allows use of Quick TeeJet System with male 1/4:" NPT connection.
- Maximum operating pressure of 300 PSI.

PART NO.	REPLACES
72354	QJ1/4T-NYB



**QJT-NYB**

- Permits use of Quick TeeJet System with standard 1 1/16"-16 TeeJet thread.
- Maximum operating pressure of 300 PSI.

PART NO.	REPLACES
72442	QJT-NYB



PART NO.	REPLACES	NPT THREAD CONN.	FOR HOSE ID	MATERIAL
73810	13435-406-NYB	1/4" (F)	3/8"	Nylon
73172	13438-540-NYB	1/4"(F)	1/2"	Nylon



PART NO.	REPLACES	NPT THREAD CONN.	FOR HOSE ID	MATERIAL
75785	13434-406-NYB	1/4" (H)	3/8"	Nylon
75786	13437-540-NYB	1/4" (H)	1/2"	Nylon

**TeeJet Hose Drops**

Hose drops connect to standard and Quick TeeJet nozzle bodies and can be used with swivels. Maximum operating pressure 125 psi.



72354  
 QJ1/4T-NYB

REF	PART NO.	HOSE DROP NUMBER	LENGTH	INLET CONN.	OUTLET CONN.	MATERIAL
A	72358	21353-6-15-NYB	15"	Quick TeeJet Type	1/4" NPT (M)	Nylon with Celcon* Quick TeeJet cap and EPDM gasket
B	72359	21354-15-NYB	15"	1 1/16"-16 TeeJet Thread	1/4" NPT (M)	Nylon

\*Celcon is a trademark of Celanese Corporation

Note: QJ1/4T-NYB can be attached to hose drops for use with Quick TeeJet caps.



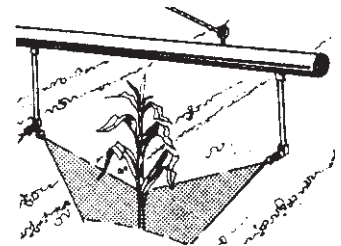
**DIRECTED SPRAY COMPONENTS  
 FOR MORE SWIVEL NOZZLE BODIES  
 SEE PAGES 4-47, 4-48**



Single  
 NPT (M)



Double  
 NPT (F)



**Quick TeeJet Swivel Spray Nozzles**

**QJ8600 SWIVEL TEEJET NOZZLE BODY ASSEMBLIES**

Provides same spray tip adjustability of standard TeeJet threaded swivels plus quick change and self-aligning features of the Quick TeeJet System.

PART NO.	REPLACES	DESCRIPTION
72559	QJ8600-1/4NYB	Single body 1/4"-NPT (F)
72552	QJ8600-2-1/4-NYB	Double body 1/4" NPT (F)



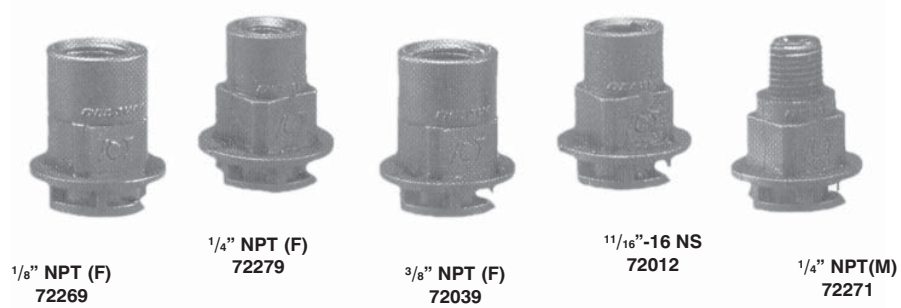
72552



72259

**CAPS FOR QUICKJET SWIVEL NOZZLES SEE PAGE 4-9**

**Delavan Threaded Outlet Boom Components**

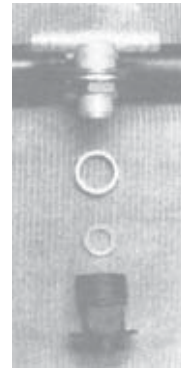


**CONVERT STD. THREAD (11/16"-16NS) BODIES TO QUICK & EASY DELA-FIT**

Dela-Fit 11/16"-16NS Nozzle Body Adapter PN45861

Convert existing 11/16"-16NS standard thread nozzle bodies to quick and easy DELA-FIT. Use with locknut (PN 04423-2) and spacer

PART NO.	REPLACES	DESCRIPTION
72012	45861	11/16" 16 NS female adapter
72267	45173-1	LF self-aligning cap w/seal
72286	34036	Spacer
72465	CP5609	Locknut



(PN 34036) to facilitate adapter installation (see left)

**For Proper Installation**

- 1) Install one #04423-2 nut in place of the standard nozzle body nut.
- 2) Install the second #04423-2 nut on the nozzle body (do not tighten)
- 3) Drop the #34036 spacer into the 11/16"-16NS DELA-FIT adapter (#45861)
- 4) Tighten the adapter until the spacer is in contact with nozzle body.
- 5) Important. Continue to tighten the adapter until the flats align with the barbs on the T or L.
- 6) While holding the adapter in position, turn the last locknut installed until it contacts the adapter and locks it snugly in place.

**CAN BE USED WITH MOST SHORT THREADED "T"'S OR "L"'S**

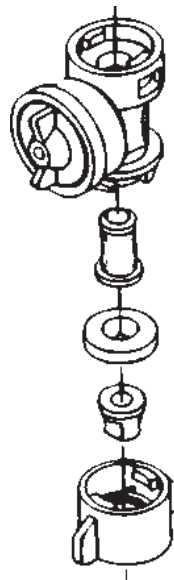
**Attach between body and cap to stop drip**

**Use std. strainer**

**EPDM or Viton (seal)**

**Nozzle tip**

**Use Dela-Fit Quick-Attach caps**



## Standard Thread Ball Check

**FOR SWIVEL NOZZLE BODIES SEE PAGE 4-XX**

**FOR FLOW RATES UP TO 4 GPM**

### BALL CHECK NOZZLE ASSEMBLY (LESS TIP\*)

Use this ball check nozzle assembly to stop drip and drool and have added control when ground or aerial spraying. This assembly is available 1/4" pipe threads and is designed to use Delavan or any other brand nozzle tips.



PART NO.	PIPE SIZE (MPT)	SPRING PRESS	REPLACES	DESCRIPTION
72899	1/4	10 psig	37444-3	Nylon ball check

\*Order tip separately

### BALL CHECK VALVE ASSEMBLY

This ball check valve assembly is ideal as an in-line valve to stop drip and drool when applying chemicals



PART NO.	PIPE SIZE (MPT)	SPRING PRESS	REPLACES	DESCRIPTION
72897	1/4	10 psig	37444-1	Nylon ball check

## Delavan Standard Thread Diaphragm Check Valve Nozzle Body

The diaphragm check valve nozzle body is designed to provide instantaneous dripfree shut off at the nozzle for both aerial and ground spraying, with a minimum of pressure drop. Forged brass body with stainless steel valve seat and standard Viton-A diaphragm. Valve opens at 7 PSI pressure. Handles flow rates up to 4 gpm for #34560-2; 1/4" NPT (F)

#### Max. Recommended Pressure:

125 psig (875 kPa)

#### Max Recommended Temperature:

120°F (50°C)



### COMPLETE ASSEMBLIES

PART NO.	REPLACES	DESCRIPTION
72919	34560-2	1/4" brass check valve
72247	47598	Diaphragm only Viton-A (standard)



**Delavan Swivel Nozzle Bodies**



Single  
NPT (M)



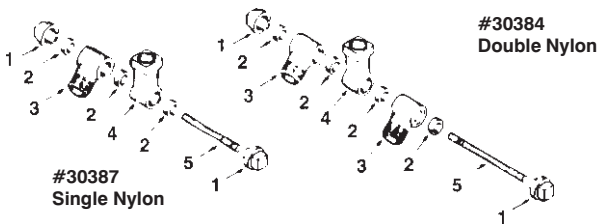
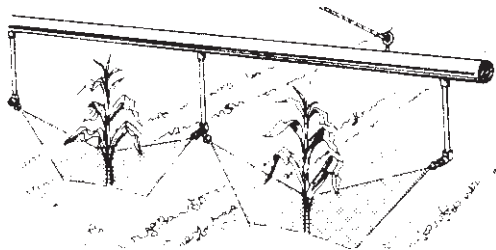
Double  
NPT (F)



Single  
NPT (F)



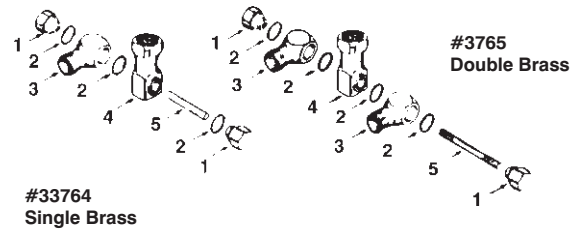
Double  
NPT (F)



Use swivel nozzle bodies when applying chemicals in a directed spray after the crop has emerged. Single swivels are used for drops at the end of the pipe and double swivels are used for middle drops and as a small broadcast unit when used with LX tips. All tips may be used with these swivels.

PART NO.	REPLACES	DESCRIPTION
72212	33764-1	Single brass 1/8" FPT inlet
72214	5000-1/4T	Single brass 1/4" FPT inlet
72215	4202-2-1/4T	Double brass 1/4" FPT inlet
72216	5540-1/4TT	Single brass 1/4" MPT inlet
72217	6240-1/4-TT	Double brass 1/4" MPT inlet
72218	33765-4	Double brass 1/4" MPT inlet, 1/4" FPT bottom outlet
72219	30387-8	Single nylon 1/8" FPT inlet
72220	30384-7	Double nylon 1/8" FPT inlet
72221	8600-1/4T-NYB	Single nylon 1/4" FPT inlet
72222	8600-2-1/4T-NYB	Double nylon 1/4" FPT inlet

**FOR HOSE DROPS SEE PAGES 4-XX, 4-XX**



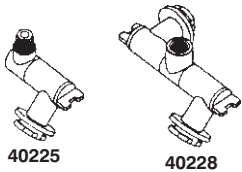
**NYLON SWIVEL NOZZLE BODIES**

REF	PART NO.	REPLACES	DESCRIPTION	FITS SWIVEL NO.
2	72224	30377-1	Washer, fiber	30387, 30384
3	72225	14184	Outlet, nylon	30387, 30384
4	72226	30383-1	Inlet, 1/4 NPT (F), nylon	30387-8, 30384-8
4	72227	30383-2	Inlet, 1/8 NPT (F), nylon	30387-8, 30384-7

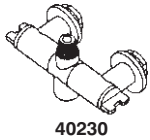
**BRASS SWIVEL NOZZLE BODIES**

REF	PART NO.	REPLACES	DESCRIPTION	FITS SWIVEL NO.
1	72230	33759	Nut, brass	33764, 33765
2	72231	33773	Seal, copper	33764, 33765
3	72232	33761	Outlet, brass	33764, 33765
4	72233	33762-2	Inlet, 1/4 NPT (F), brass	33765-2

## Combo-Jet Nozzle Components



PART NO.	REPLACES	DESCRIPTION	PART NO.
79378	40225	Swivel body Assy., C/J single, 1/4" NPT male, body only 40225-01	79428
79379	40226	Swivel body Assy., C/J double, 1/4" NPT male, body only 40226-01	74941
79380	40227	Swivel body Assy., C/J single, 1/4" NPT female, body only 40226-01	74942
79381	40228	Swivel body Assy., C/J double, 1/4" NPT female, body only 40228-01	74943



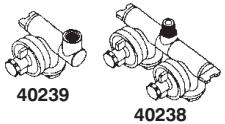
PART NO.	REPLACES	DESCRIPTION	PART NO.
79382	40229	Swivel body Assy., C/J single, 1/4" NPT male, 1/4" NPT female, body only 40229-01	74944
79383	40230	Swivel body Assy., C/J double, 1/4" NPT male, 1/4" NPT female, body only 40230-01	74945



PART NO.	REPLACES	DESCRIPTION
79384	40231	Diaphragm swivel body Assy., C/J single, 1/4" NPT male
79385	40232	Diaphragm swivel body Assy., C/J double, 1/4" NPT male
79386	40233	Diaphragm swivel body Assy., C/J single, 1/4" NPT female
79387	40234	Diaphragm swivel body Assy., C/J double, 1/4" NPT female



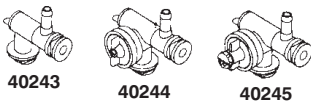
PART NO.	REPLACES	DESCRIPTION
79388	40235	Diaphragm swivel body Assy., C/J single, 1/4" NPT male, 1/4" NPT female
79389	40236	Diaphragm swivel body Assy., C/J double, 1/4" NPT male, 1/4" NPT female



PART NO.	REPLACES	DESCRIPTION
79390	40237	Shut-off diaphragm swivel body Assy., C/J single, 1/4" NPT male
79391	40238	Shut-off diaphragm swivel body Assy., C/J double, 1/4" NPT male
79392	40239	Shut-off diaphragm swivel body Assy., C/J single, 1/4" NPT female
79393	40240	Shut-off diaphragm swivel body Assy., C/J double, 1/4" NPT female



PART NO.	REPLACES	DESCRIPTION
79394	40241	Shut-off diaphragm swivel body Assy., C/J single, 1/4" NPT male, 1/4" NPT female
79395	40242	Shut-off diaphragm swivel body Assy., C/J double, 1/4" NPT male, 1/4" NPT female



PART NO.	REPLACES	DESCRIPTION
79396	40243	Swivel body Assy., C/J single, 3/8" hose shank, square mount
79397	40244	Diaphragm swivel body Assy., C/J single, 3/8" hose shank, square mount
79398	40245	Shut-off diaphragm swivel body Assy., C/J single, 3/8" hose shank, square mount



PART NO.	REPLACES	DESCRIPTION
79399	40237-03	Shut-off diaphragm module assembly for 79392, 79391, 79394, 79398

**INDEX**

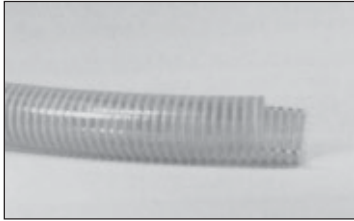
<b>ALUMINUM CAMLOCKS</b> .....	5-32, 5-33	<b>HOSE</b> .....	5-1 to 5-7
<b>BANJO MANIFOLD FITTINGS</b> .....	5-38 to 5-40	Air Line Hose .....	5-2
<b>BANJO PIPE FITTINGS</b> .....	5-14 to 5-24	Air Hose Assy's .....	5-3
<b>BLACK IRON PIPE FITTINGS</b> .....	5-14 to 5-19	Air Seeder Hose .....	5-4
<b>BRASS PIPE FITTINGS</b> .....	5-14 to 5-31	Clear Vinyl Tubing .....	5-3
<b>CABLE TIES</b> .....	5-9	Discharge Hose .....	5-1
<b>CAMLEVER COUPLINGS</b>		EPDM Sprayer Hose .....	5-2
Aluminum .....	5-32, 5-33	EVA Tubing .....	5-2
Banjo .....	5-32 to 5-36	Fertilizer Hose .....	5-5
Imported (Poly) .....	5-32, 5-33	Fuel Hose .....	5-6, 5-7
Stainless Steel .....	5-32, 5-33	Garden Hose .....	5-6
<b>CAMLOCKS</b>		Gauge Tubing .....	5-1, 5-3
Aluminum .....	5-32, 5-33	Grain Vac Hose .....	5-4
Banjo .....	5-32 to 5-36	Lay Flat Hose .....	5-1
Imported .....	5-32, 5-33	Nylon Tubing .....	5-1
Stainless Steel .....	5-32, 5-33	Pressure Washer Hose .....	5-5
<b>CAMLOCK REPAIR PARTS</b>		Reinforced Clear Vinyl Tubing .....	5-3
Banjo .....	5-34	Reinforced EVA Tubing .....	5-3
<b>CHARTS</b>		Steam Cleaner Hose .....	5-5
Hosebarb .....	5-13	Twin Line Welding Hose .....	5-7
Thread size .....	5-13	Water Suction Hose .....	5-1
<b>CLAMPS</b> .....	5-9 to 5-12	<b>HOSE BARB CHART</b> .....	5-13
<b>COUPLING REPAIR PARTS</b>		<b>HOSE BARB INSERTS</b> .....	5-25, 5-30
Banjo .....	5-34	<b>HOSE BARB FITTINGS</b> .....	5-20 to 5-31
<b>FLANGE FITTINGS</b> .....	5-38 to 5-40	<b>HOSE BARB PIPE FITTINGS</b> .....	5-20 to 5-28
<b>FLANGES</b>		<b>HOSE CLAMPS</b> .....	5-9 to 5-12
Banjo .....	5-37	<b>HOSE CUTTER</b> .....	5-8
<b>GALVANIZED PIPE FITTINGS</b> .....	5-14 to 5-19	<b>LOCKING CAM LEVER COUPLINGS</b>	
<b>GARDEN HOSE BALL VALVES</b> .....	5-31	Banjo .....	5-35
<b>GARDEN HOSE FITTINGS</b> .....	5-28 to 5-31	<b>MANIFOLD FITTINGS</b> .....	5-38 to 5-40
<b>GARDEN HOSE QUICK COUPLERS</b> .....	5-31	<b>MANIFOLDS</b>	
<b>GARDEN HOSE WASHERS</b> .....	5-25, 5-30	Banjo .....	5-27
<b>GARDEN HOSE Y VALVES</b> .....	5-31	Mower Deck Washer Assy .....	5-31
		<b>NIPPLES</b> .....	5-18, 5-19
		<b>NYLON PIPE FITTINGS</b> .....	5-14 to 5-31
		<b>PIPE CUTTER</b> .....	5-8
		<b>PIPE FITTINGS</b> .....	5-14, 5-31
		<b>PIPE NIPPLES</b> .....	5-18, 5-19
		<b>POLYPROPYLENE CAMLOCKS</b>	
		Banjo .....	5-32 to 5-36
		Imported .....	5-32, 5-33

## INDEX

<b>POLYPROPYLENE FLANGES</b> .....	5-37
Quick Couplers .....	5-26, 5-31
<b>SCREEN WASHERS</b> .....	5-25, 5-30
<b>SPEEDY CLAMP</b> .....	5-9
<b>STAINLESS STEEL CAMLOCKS</b> .....	5-32, 5-33
<b>STAINLESS STEEL FITTINGS</b> .....	5-14 to 5-20
<b>SUPER CLAMPS</b> .....	5-12
<b>SWIVEL</b>	
Banjo .....	5-27
<b>SWIVELS, GARDEN HOSE</b> .....	5-29, 5-30
<b>SWIVEL NUTS</b> .....	5-25, 5-29, 5-30
<b>THREAD CHART</b> .....	5-13
<b>THREAD SEALANTS</b> .....	5-8, 5-9
<b>UNIONS</b> .....	5-15
<b>WASHERS</b> .....	5-25, 5-30

**PVC Water Suction Hose**

**CLEAR W/GRAY HELIX - BULK HOSE**



PART NO.	ID X OD	LENGTH	*MBR	*WP
HOS 73050	3/4" x 1.00"	100'	2"	100#
HOS 73051	1" x 1.25"	100'	3"	90#
HOS 73052	1 1/4" x 1.51"	100'	4"	70#
HOS 73053	1 1/2" x 1.81"	100'	5"	70#
HOS 73054	2" x 2.34"	100'	7"	60#
HOS 73055	2 1/2" x 2.88"	100'	8"	60#
HOS 73056	3" x 3.42"	100'	10"	50#
HOS 73057	4" x 4.49"	100'	14"	45#
HOS 73058	5" x 5.58"	100'	23"	45#
HOS 73059	6" x 6.80"	100'	28"	45#

**Applications:** A PVC suction and discharge hose for water, light chemicals, and pumping services in the agricultural, rental, construction, marine and irrigation industries.

**Construction:** A smooth bore hose made of flexible abrasion resistant extruded clear PVC with a rigid PVC helix.

**Temp Range:** -10°F to 130°F (under static conditions)

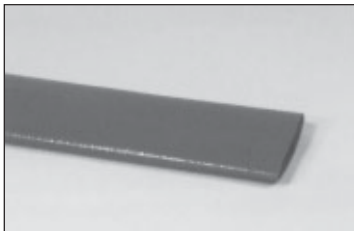
**WP and MBR** (continuous service): Applicable @ 68°F

**STD Length:** 100'

**Maximum Length:** 3/4" I.D. through 6" I.D. = 100' bulk

**PVC Lay Flat Discharge Hose (Blue)**

**BULK HOSE**



PART NO.	ID	LENGTH	*WP
HOS 73102	1 1/2"	300'	75#
HOS 73060	2"	300'	70#
HOS 73103	2 1/2"	300'	60#
HOS 73061	3"	300'	55#
HOS 73104	4"	300'	45#
HOS 73105	6"	300'	40#

**Applications:** Discharge hose for water, light chemicals, and pumping service in the agricultural, rental, construction, marine, and irrigation industries.

**Construction:** Tube/cover are PVC, reinforced with 3 ply polyester yarns, one longitudinal ply and two spiral plies. Both tube/cover are extruded simultaneously to obtain maximum bonding.

**Features:** Strong, lightweight, non water-absorbing, and mildew proof hose that rolls up flat for easy storage. Resistant to oils, grease, and many chemicals and acids.

**Temp Range:** -5°F to 130°F

**Nylon Tubing/Gauge Tubing**



\* **MBR = MINIMUM BEND RADIUS**

\* **WP = WORKING PRESSURE**

**ALL BULK HOSE PRICED PER FOOT**

PART NO.	DESCRIPTION	LENGTH
HOS 73000	1/8" OD gauge tube	100'

## EPDM Rubber Spray Hose (Black)



PART NO.	ID X OD	LENGTH	SPIRAL	WP
HOS 73010	1/4" x 1/2"	700'	2 SP	200#
HOS 73012	3/8" x 11/16"	500'	2 SP	150#
HOS 73014	1/2" x 13/16"	500'	2 SP	150#
HOS 73016	5/8" x 15/16"	700'	2 SP	200#
HOS 73018	3/4" x 1 1/8"	500'	2 SP	150#
HOS 73020	1" x 1 25/64"	450'	2 SP	150#
HOS 73011	1/4" x 9/16"	700'	4 SP	300#
HOS 73013	3/8" x 23/32"	700'	4 SP	300#
HOS 73015	1/2" x 27/32"	700'	4 SP	300#
HOS 73017	5/8" x 1"	700'	4 SP	300#
HOS 73019	3/4" x 15/32"	700'	4 SP	300#
HOS 73021	1" x 1 25/64"	700'	4 SP	200#
HOS 73022	1 1/4" x 1 25/32"	500'	4 SP	150#
HOS 73023	1 1/2" x 2 1/32"	400'	4 SP	150#
HOS 73027	2" x 2 1/2"	300'	4 SP	150#

**Applications:** General purpose hose for various agricultural, construction, and industrial applications, including Monsanto's Lasso®. Hose has limited oil resistance.

**Construction:** EPDM cover and reinforced tube with 2 or 4-spiral polyester yarn.

**Warning:** Not for use with Anhydrous Ammonia

## Air & Multipurpose Hose



PART NO.	ID	OD	WP (PSI)	LENGTH
HOS WF4	1/4"	.543"	300	500'
HOS WF6	3/8"	.688"	300	500'
HOS WF8	1/2"	.858"	300	500'
HOS WF10	5/8"	1.015"	300	500'
HOS WF12	3/4"	1.188"	300	500'
HOS WF16	1"	1.500"	300	500'
HOS WF20	1 1/4"	1.797"	250	500'
HOS WF24	1 1/2"	2.094"	250	500'

**Applications:** A good quality, economical, general purpose hose for industrial air service, compressor lines, pneumatic tools, low pressure spray, and many other applications where the need for oil resistance is moderate. Non-conductive.

**Construction:**

**Tube:** Chemigum® RMA Class A (high oil resistance)

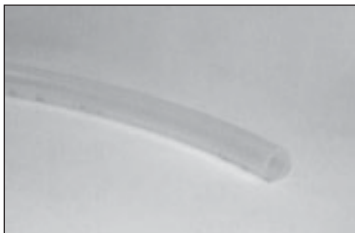
**Reinforcement:** Spiral synthetic yarn

**Cover:** Blue, black or red Chemivic®, RMA Class B (medium-high oil resistance)

**Temp Range:** -20°F to 190°F (-29°C to 88°C)

**Branding:** Continuous brand example "Wingfoot Non-Conductive 1 1/2" (38.1mm) 300 PSI WP. Made in USA, Goodyear™.

## Eva Tubing



### BOXED

PART NO.	ID X WALL	LENGTH
HOS 73034	1/4" x 1/8"	100'
HOS 73030	3/8" x 1/8"	100'
HOS 73031	1/2" x 1/8"	100'
HOS 73032	3/4" x 1/8"	100'
HOS 73033	1" x 1/8"	100'

**Applications:** Used in agricultural, lawn, and chemical transfer. Handles common herbicides and insecticide solutions, including Monsanto's Lasso®. Used for the application of anhydrous ammonia, aqua ammonia, herbicides, phosphates and all liquid fertilizers.

**Construction:** Ethyl vinyl acetate plastic tubing

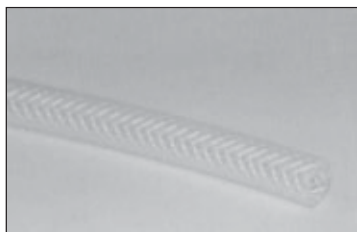
**Features:** Good chemical and weather resistance.

**Temp Range:** -50°F to 125°F

**Warning:** Not for transfer of anhydrous ammonia under pressure. Recommended for open end discharge only.

**Reinforced Eva Tubing**

**BULK HOSE**



PART NO.	ID X OD	LENGTH	WP
HOS 73063	1/4" x .385"	300'	250#
HOS 73064	3/8" x .593"	300'	250#
HOS 73065	1/2" x .720"	300'	250#
HOS 73066	5/8" x .87"	300'	200#
HOS 73067	3/4" x 1"	300'	150#
HOS 73068	1" x 1.312"	200'	150#

**Applications:** Used in agricultural, lawn, and chemical transfer. Handles common herbicides and insecticide solutions, including Monsanto's Lasso®. Used for the application of anhydrous ammonia, aqua ammonia, herbicides, phosphates and all liquid fertilizers.

**Construction:** Ethyl vinyl acetate plastic tubing with polyester textile yarn reinforcement.

**Features:** Good chemical and weather resistance.

**Temp Range:** -50°F to 125°F

**Warning:** Not for transfer of anhydrous ammonia under pressure. Recommended for open end discharge only.

**Clear Vinyl Tubing**



PART NO.	ID X WALL	LENGTH	WP
HOS 73000	1/8" gauge tubing	100'	-
HOS 73037	1/4" x 1/8"	100'	70#
HOS 73040	3/8" x 1/8"	100'	60#
HOS 73041	1/2" x 1/8"	100'	45#
HOS 73042	5/8" x 1/8"	100'	40#
HOS 73043	3/4" x 1/8"	100'	35#
HOS 73044	1" x 1/8"	100'	25#

**Applications:** Ideal for handling beverages and liquids

**Construction:** Polyvinyl chloride.

**Features:** A clear, flexible, and lightweight tubing that provides full-flow viewing.

**Benefits:** Good to excellent resistance to acids, fair to excellent resistance to alkalies, and excellent resistance to most solvents, except ketones, esters, and some aromatic hydrocarbons.

**Temp Range:** -20°F to 150° (higher temperatures, lower working pressures).

**W.P.:** Applicable @ 70°F

**Reinforced Clear Vinyl Tubing**



**BULK HOSE**

PART NO.	ID X WALL	LENGTH	WP
HOS 73045	1/4" x .438"	300'	250#
HOS 73046	3/8" x .594"	300'	225#
HOS 73047	1/2" x .750"	300'	200#
HOS 73048	5/8" x .875"	300'	200#
HOS 73049	3/4" x 1.025"	300'	150#
HOS 73039	1" x 1.312"	200'	125#
HOS 73038	1 1/4" x 1.656"	100'	100#

**Applications:** Use when a clear hose needing higher working pressures and reinforcement is required. Good for applications such as air, water, and pneumatic lines.

**Construction:** Profile formulated to comply with FDA requirements. Clear polyvinyl chloride with a synthetic cord

**Temp Range:** -20°F to 150°F (higher temperatures, lower working pressures).

**Warning:** Not for transfer of Anhydrous Ammonia.

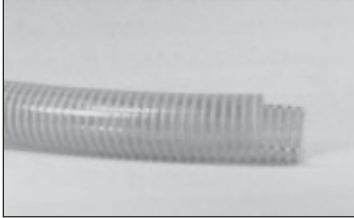
**Air Hose Assemblies**



PART NO	DESCRIPTION	PSI
CPT 012-0145SP	1/4" x 25' yellow recoil hose	200
CPT 012-0024SP	3/8" x 50' red rubber	200
CPT 012-0051SP	3/8" x 50' blue PVC	300
CPT 012-0052SP	3/8" x 60' red PVC	200
CPT012-0053SP	3/8" x 25' black PVC	200

## Air Seeder/PVC Hose

### CLEAR W/GRAY HELIX - BULK HOSE



PART NO.	ID X OD	LENGTH	*MBR	*WP
HOS 73050	3/4" x 1.00"	100'	2"	100#
HOS 73051	1" x 1.25"	100'	3"	90#
HOS 73052	1 1/4" x 1.51"	100'	4"	70#
HOS 73053	1 1/2" x 1.81"	100'	5"	70#
HOS 73054	2" x 2.34"	100'	7"	60#
HOS 73055	2 1/2" x 2.88"	100'	8"	60#
HOS 73056	3" x 3.42"	100'	10"	50#
HOS 73057	4" x 4.49"	100'	14"	45#
HOS 73058	5" x 5.58"	100'	23"	45#
HOS 73059	6" x 6.80"	100'	28"	45#

**Applications:** A PVC suction and discharge hose for water, light chemicals, and pumping services in the agricultural, rental, construction, marine and irrigation industries.

**Construction:** A smooth bore hose made of flexible abrasion resistant extruded clear PVC with a rigid PVC helix.

**Temp Range:** -10°F to 130°F (under static conditions)

**WP and MBR (continuous service):** Applicable @ 68°F

**STD Length:** 100'

**Maximum Length:** 3/4" I.D. through 6" I.D. = 100' bulk

## Corrugated Material Handling Hose (Grain Vac Hose)



PART NO.	ID X OD	LENGTH	MBR	WP
HOS GV400	4" x 4.55"	100'	9"	25#
HOS GV500	5" x 5.65"	100'	10"	25#
HOS GV600	6" x 6.78"	100'	12"	25#

**Applications:** Designed for light weight material that can be moved by air, such as rockwool, fiberglass, dust, etc. Suitable for dust control in wood working, grain and cement handling, and as ventilation ducting where dust is a work hazard.

**Construction:** Abrasion resistant rubber compounds to dissipate static with a rigid PVC helix.

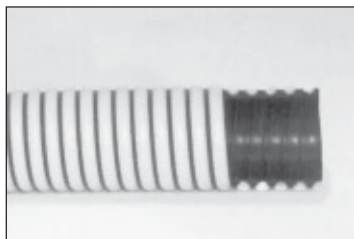
**Temp Range:** -30°F to 140°F

**W.P. & MBR:** Applicable @ 68°F



**Fertilizer Solution**

**POLYETHYLENE HELIX (YELLOW) - EPDM RUBBER BULK HOSE**



PART NO.	ID X OD	LENGTH	VAC RAT	MBR	WP
HOS FS100	1" x 1.34"	100'	28 in/HG	4"	80#
HOS FS125	1 1/4" x 1.61"	100'	28 in/HG	5"	70#
HOS FS150	1 1/2" x 1.96"	100'	28 in/HG	6"	60#
HOS FS200	2" x 2.49"	100'	28 in/HG	9"	60#
HOS FS250	2 1/2" x 3.00"	100'	28 in/HG	11"	50#
HOS FS300	3" x 3.60"	100'	28 in/HG	12"	50#
HOS FS400	4" x 4.69"	100'	28 in/HG	17"	45#
HOS FS600	6" x 6.86"	100'	20 in/HG	27"	35#

**Applications:** A lightweight, rugged, flexible suction and discharge hose for the agricultural, rental, mining, and construction industries. Hose is resistant to herbicides & pesticides, including Lasso® and has good flexibility even in cold weather.

**Temp Range:** -30°F to 140°F

**W.P., MBR, & Vac Rating:** Applicable @ 68°F

**Std. Length:** 100' bulk

**Warning:** Not for transfer of anhydrous ammonia.

**Cleaning Equipment Hose (Pressure Washer Hose)**



PART NO.	ID	OD	WP (PSI)	REEL LENGTH
HOS T104HDS	1/4"	.532"	3000	500'
HOS T106HDS	3/8"	.693"	3000	500'
HOS T108HDS	1/2"	.820"	3000	500'

**Applications:** For use on pressure washer machines with working pressures up to 3000 PSI.

**Construction:**

**Tube:** Black Chemigum®

**Reinforcement:** Braided (1) steel wire

**Cover:** Blue oil resistant synthetic rubber; RMA Class B (medium - high oil pressure)

**Temp Range:** -20°F to 250°F (-29°C to 121°C)

**Note:** Not recommended for steam service

**Whitewater Cleaning Equipment Hose**



**PRESSURE WASHER SERVICE - UP TO 250°F (121°C)**

PART NO.	ID	OD	WP (PSI)	REEL LENGTH
HOS SC6	3/8"	.693"	3000	500'
HOS SC8	1/2"	.820"	2500	500'

**STEAM CLEANER SERVICE UP TO 325°F (163°C)**

PART NO.	ID	OD	WP (PSI)
HOS SC6	3/8"	.693"	350
HOS SC8	1/2"	.820"	350

**Applications:** Whitewater hose is for use on either steam cleaner machines or combination steam cleaner/pressure washer machines.

**Construction:**

**Tube:** Black Pyrosyn®

**Reinforcement:** Braided (1) steel wire

**Cover:** Black and red Hysunite® RMA class B (medium/high oil resistance)

**Temp Range:** -20°F to 250°F (-29°C to 121°C)

## Fuel Hose



### Hysunite® Fuel Line/Emission Control Hose

Especially for gasohol and later carbureted vehicle applications with high under the hood temperatures. Hysunite hose cover is oil and gasoline resistant and withstands exposure to fuel, vapor, moisture and high heat up to 250°F. The Chemigum® rubber tube is specially compounded to resist gasoline, oil, diesel, and other fuels. High strength synthetic textile reinforcement brings minimum burst to 175 PSI. Meets SAE specification J30R7.

**Warning** - For fuel injected vehicles, use SAE J30R9 fuel injection hose.

PART NO.	ID	LENGTH
HOS 65126	1/4"	25'
HOS 65127	5/16"	25'
HOS 65128	3/8"	25'

## Contractors Industrial Water/Garden Hose

### ASSEMBLIES



PART NO.	ID X LENGTH	WP
HOSGH075-25	3/4" x 25'	200#
HOS GH075-50	3/4" x 50'	200#
HOS GH075-75	3/4" x 75'	200#
HOS GH075-100	3/4" x 100'	200#
HOS GH50-50	1/2" x 50'	200#
HOS GH50-100	1/2" x 100'	200#

**Construction:** 100% rubber

**Assemblies:** 200# PSI working pressure, coupled with heavy duty MGHT & FGHT solid brass couplings, and one bend restrictor

**Benefits:** Resists sunlight, abrasion, kinking, and cracking, flexible in freezing temperatures. Bend restrictor promotes longer life.

**Temp Range:** -40°F to 200°F (-40°C to 93°C)

**Twin Line Welding Hose**



**ASSEMBLIES**

PART NO.	ID X LENGTH
HOS TL15	1/4" x 15'
HOS TL25	1/4" x 25'
HOS TL50	1/4" x 50'
HOS TL100	1/4" x 100'

**Applications:** Oxy-acetylene service in steel, metal working, industrial, construction, and agricultural industries.

**Construction:** Tube especially compounded for oxy-acetylene service. Vertically braided rayon cord reinforcement. Smooth cover, red and green line bonded securely together for easy handling. Bands are recommended to prevent separation at the ends. Meets RMA-IAA Spec. Grade R.

**Farm Fuel Transfer Hose w/Static Wire**



**ASSEMBLIES**

PART NO.	ID X LENGTH
HOS FTSW3/4-14	3/4" x 14'
HOS FTSW1-14	1" x 14'

**Applications:** Required for use with 12 or 110 volt "Electric" pumps. Recommended for dispensing all gasoline, diesel fuel, kerosene, and oil. Where UL approval is not required.

**Construction:** Oil resistant tube and cover. Spiral reinforced with synthetic yarn. Includes static wire built into the hose wall.

**Assemblies:** Coupled male x male with a built in "static wire" to dissipate static electricity associated with electric pumps, plus 8" internal "spring guards" on each end to prevent the hose from kinking off at the coupling, extending the life of the hose three to four times.

**Warning:** Not for commercial pump use.

**W/O STATIC WIRE**

PART NO.	ID X LENGTH
HOS FTH3/4-14	3/4" x 14'
HOS FTH1-14	1" x 14'

**Petroleum Dispensing Hose**



**Applications:** Aggi Gas Hose is a multi-use type hose for dispensing gasoline, grease, kerosene, and petroleum oils from farm and barrel type pumps. It is for agricultural, construction and industrial service where UL approval is not required.

**Construction:**

**Tube:** Chemigum® synthetic rubber (ORS)

**Reinforcement:** Spiral synthetic yarn (no static wire)

**Cover:** Black or red Chemivic® synthetic rubber (ORS)

**Temp Range:** Ambient

PART NO.	ID	OD	LENGTH
HOS FTH3/4	3/4"	1 <sup>8</sup> / <sub>64</sub> "	500'
HOS FTH1	1"	1 <sup>24</sup> / <sub>64</sub> "	400'
HOS FTH1-1/4	1 1/4"	1 <sup>51</sup> / <sub>64</sub> "	300'

## Pipe Cutter

This cutter will cut faster than any other pipe cutter made and do it without creating burrs or sawdust

Cuts Polyethylene, Polybutylene, PVC, ABS, rubber hose. Cuts all sizes up to 1 1/4" ID. Its fast, clean, safe, small and light. Strong, tough nylon handles and replaceable stainless steel blades.



**Clean  
Smooth  
Cuts**



PART NO.	DESCRIPTION
73070	Li'l Nipper hose cutter
73071	Replacement blade SS



**li'l nipper™**

## Thread Sealants

PRODUCT	Item Number	Container	Appearance	Pressure Resistance (PSI)	Viscosity cPs	Temperature Range	Seal to Operating Pressure	Recommended Primer	Key Specifications
545 Hydraulic/Pneumatic Thread Sealant	LUB54531 LUB54541	50 ml tube 250 ml tube	Purple Liquid	10,000	14,000	-65 to 300 F	4 hours	7649 Primer N	
565 Thread Sealant	LUB56531 LUB56541	50 ml tube 250 ml tube	White Paste	10,000	300,000	-65 to 300 F (-54 to 149 C)	4 hours	7649 Primer N	UL approved AGA approved NSF/ANSI 61 approved
567 Thread Sealant	LUB56747 LUB56765	50 ml tube 250 ml tube	White Paste	10,000	540,000	-65 to 400 F (-54 to 204 C)	3 hours (stainless steel) 30 min. (Carbon steel)	7649 Primer N	UL approved

### 545 Thread Sealant

Designed for both hydraulic and pneumatic systems, 545 contains no fillers or particles which could contaminate system fluids, foul valves, or clog fine filters and screens. Suitable for fittings up to 2" (50mm) in diameter, 545 has excellent solvent resistance.

### 565 PST® Thread Sealant

Formulated specifically for metal, tapered, pipe thread fittings, 565 cures rapidly to provide immediate low pressure sealing. Its controlled lubricity prevents galling and it protects mated threaded areas from rust and corrosion. 565 can be used on fittings up to 2" (50 mm) in diameter.

### 567 PST® Thread Sealant

A high-performance sealant that locks and seals metal, tapered pipe threads, and fittings. Ideal for stainless steel, aluminum, galvanized metal, and other inert metals. 567 has excellent solvent resistance, allows easy assembly and prevents galling. Excellent for high-pressure applications.

PRODUCT	Item Number	Container	Temperature Resistance	Adhesive Appearance	Pressure Resistance
H.V.A.C. Blue Pipe Joint Compound	LUB82480 LUB82481	0.25 pt. brush can 1 pt. brush can	-65 to 400 F (-54 to 204 C)	Blue Paste	5000 PSI
No More Leaks Plastic Pipe Sealant	LUB80725 LUB80726	2 fl. oz. tube 1 pt. brush can	-65 to 400 F (-54 to 204 C)	White Paste	5000 PSI
Pipe Joint Compound	LUB30557	1 pt. brush can	-65 to 400 F (-54 to 204 C)	Black Paste	5000 PSI
Thread Sealant with Teflon	LUB30534	0.25 pt. brush can	-60 to 300 F (-51 to 149 C)	White Paste	5000 PSI

### H.V.A.C. Blue Pipe Joint Compound

Tough, pliable sealant specially formulated for heating, air conditioning, and refrigeration applications. Sets up quickly to allow immediate assembly and to keep joints tight in areas of high vibration and thermal cycling. Seals oils, refrigerants, butane, propane, natural gas, and more. Easy cleanup.

### No More Leaks™ Plastic Pipe Sealant

Seals plastic pipes and allows easy disassembly. Specially formulated without the added lubricity of Teflon® to avoid cracked fittings caused by over-tightened plastic joints.

### Pipe Joint Compound

Economical, general-purpose pipe thread sealant that won't shred like Teflon® tape and allow easy disassembly. Resists common shop fluids.

### Thread Sealant with Teflon®

A general-purpose sealant with the added lubricity of Teflon® for metal pipes. Won't shred like Teflon® tape and allows easy disassembly. Resists common shop fluids.

**Teflon Tape**

**NOTE: NOT RECOMMENDED FOR POLYPROPYLENE FITTINGS**



PART NO.	SIZE/CONTAINER	DESCRIPTION
HYD1102	1/2 x 480"	Single Roll
HYD1102C	1/2 x 480"	Case of 200 Rolls

**Liquid Teflon Sealant**

Easy application liquid Teflon® for fast thread sealing. Handy 2 oz. tube or larger cans with dauber applicator.

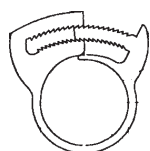
Note: Not recommended for polypropylene fittings.



PART NO.	SIZE	CONTAINER
75833	2 oz.	Tube
75834	4 oz.	Can
75835	8 oz.	Can

**Speedy Clamps Reusable**

PART NO.	REPLACES	APPROX HOSE SIZE ID	ID IN INCHES	
			OPEN	CLOSED
75260	SCB	1/4"	.371	.322
75267	SCC	1/4"	.472	.393
75266	SCD	1/4"	.551	.472
75268	SCE	3/8"	.610	.510
75269	SCF	3/8"	.690	.590
75270	SCG	1/2"	.775	.675
75261	SCH	1/2"	.840	.740
75271	SCJ	5/8"	.930	.820
75272	SCK	5/8"	1.010	.900
75262	SCL	3/4"	1.110	.990
75273	SCM	3/4"	1.200	1.080
75263	SCN	1"	1.300	1.175
75274	SCP	1"	1.400	1.275
75275	SCQ	-	1.520	1.380
75264	SCR	-	1.635	1.500
75276	SCS	1 1/4"	1.755	1.620
75277	SCT	-	1.875	1.740
75278	SCU	-	1.980	1.850
75279	SCV	1 1/2"	2.110	1.960
75265	SCW	-	2.240	2.090



Teeth on four edges

**Pipe Sealant**



PART NO.	SIZE/CONTAINER
75350	1.75 oz. Tube
75351	1/4 Pint can
75352	1/2 Pint can
75353	1 Pint Can
75354	21 Black Jack/ 1/2 Pint Can
75355	21 Black Jack/1 Pint Can

**Cable Ties Black UV Resistant**

PART NO.	REPLACES	LENGTH	WIDTH
74900	NS4BUV	3 3/4"	.090"
74901	NS6BUV	6"	.135"
74903	NS8BUV	8 1/4"	.135"
74904	NS12BUV	11 1/4"	.190"
74905	NS14BUV	14 1/4"	.190"
74906	NS17BUV	17 1/2"	.310"
74907	NS21BUV	21 1/2"	.310"
74908	NS28BUV	28"	.310"
74909	NS36BUV	36 1/2"	.360"

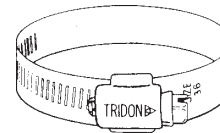
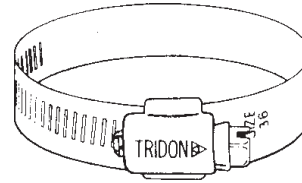
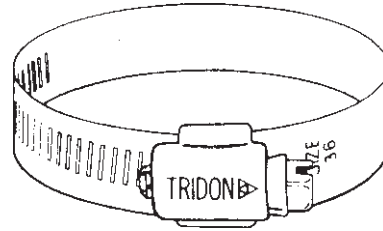


## Tridon Hose Clamps

### ALL SIZES SOLD PER BOX, 10 CLAMPS PER BOX HS SERIES

- 5/16" hex slotted carbon clear chromate plated screw
- 1/2" 201 stainless steel band
- 301 stainless steel housing
- Not recommended for underground applications

PART NO.	SIZE RANGE INCHES			SIZE RANGE MM	
	MIN.	NOM.	MAX	MIN.	MAX.
HAR HS6	3/8	7/16	7/8	10	22
HAR HS8	7/16	1/2	1	11	25
HAR HS10	9/16	5/8	1 1/16	14	27
HAR HS12	9/16	3/4	1 1/4	14	32
HAR HS16	1 1/16	1	1 1/2	17	38
HAR HS20	3/4	1 1/4	1 3/4	19	44
HAR HS24	1 1/16	1 1/2	2	27	51
HAR HS28	1 5/16	1 3/4	2 1/4	33	57
HAR HS32	1 9/16	2	2 1/2	40	63
HAR HS36	1 13/16	2 1/4	2 3/4	46	70
HAR HS40	2 1/16	2 1/2	3	52	76
HAR HS44	2 5/16	2 3/4	3 1/4	59	82
HAR HS48	2 9/16	3	3 1/2	65	89
HAR HS52	2 13/16	3 1/4	3 3/4	71	95
HAR HS56	3 1/16	3 1/2	4	78	101
HAR HS60	3 5/16	3 3/4	4 1/4	84	107
HAR HS64	2 1/2	3 1/2	4 1/2	64	114
HAR HS72	3	4	5	76	127
HAR HS80	3 1/2	4 1/2	5 1/2	89	140
HAR HS84	3 3/4	4 3/4	5 3/4	95	146
HAR HS88	4	5	6	102	152
HAR HS96	4 1/2	6	6 1/2	114	165
HAR HS104	5	6 1/2	7	127	178
HAR HS116	5 3/4	7	7 3/4	146	196



### MH SERIES

- 1/4" hex slotted carbon clear chromate plated screw
- 5/16" 301 stainless steel band
- 301 stainless steel housing
- Not recommended for underground applications

PART NO.	SIZE RANGE INCHES			SIZE RANGE MM	
	MIN.	NOM.	MAX	MIN.	MAX.
HAR MH4	7/32	7/16	5/8	6	16
HAR MH6	5/16	5/8	7/8	8	22
HAR MH8	7/16	3/4	1	11	25

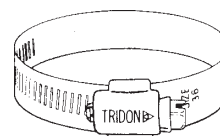
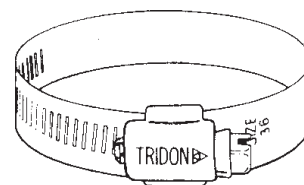
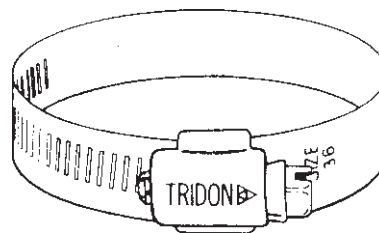
**Tridon Hose Clamps (Stainless Steel)**

**ALL SIZES SOLD PER BOX, 10 CLAMPS PER BOX**

**HAS SERIES**

- 5/16" hex slotted 305 stainless steel screw
- 1/2" 301 stainless steel band
- 301 stainless steel housing
- Recommended for underground applications

PART NO.	SIZE RANGE INCHES			SIZE RANGE MM	
	MIN.	NOM.	MAX.	MIN.	MAX.
HAR HAS6	3/8	7/16	7/8	10	22
HAR HAS8	7/16	1/2	1	11	25
HAR HAS10	9/16	5/8	1 1/16	14	27
HAR HAS12	9/16	3/4	1 1/4	14	32
HAR HAS16	1 1/16	1	1 1/2	17	38
HAR HAS20	3/4	1 1/4	1 3/4	19	44
HAR HAS24	1 1/16	1 1/2	2	27	51
HAR HAS28	1 5/16	1 3/4	2 1/4	33	57
HAR HAS32	1 9/16	2	2 1/2	40	63
HAR HAS36	1 13/16	2 1/4	2 3/4	46	70
HAR HAS40	2 1/16	2 1/2	3	52	76
HAR HAS44	2 5/16	2 3/4	3 1/4	59	82
HAR HAS48	2 9/16	3	3 1/2	65	89
HAR HAS52	2 13/16	3 1/4	3 3/4	71	95
HAR HAS56	3 1/16	3 1/2	4	78	101
HAR HAS60	3 5/16	3 3/4	4 1/4	84	107
HAR HAS64	2 1/2	3 1/2	4 1/2	64	114
HAR HAS72	3	4	5	76	127
HAR HAS80	3 1/2	4 1/2	5 1/2	89	140
HAR HAS84	3 3/4	4 3/4	5 3/4	95	146
HAR HAS88	4	5	6	102	152
HAR HAS96	4 1/2	6	6 1/2	114	165
HAR HAS104	5	6 1/2	7	127	178
HAR HAS116	5 3/4	7	7 3/4	146	196



**Tridon Hose Clamps**

**MAH SERIES**

- 1/4" hex slotted 410 stainless steel screw
- 5/16" 301 stainless steel band
- 301 stainless steel housing
- Recommended for underground applications

PART NO.	SIZE RANGE INCHES			SIZE RANGE MM	
	MIN.	NOM.	MAX.	MIN.	MAX.
HAR MAH4	7/32	7/16	5/8	6	16
HAR MAH6	5/16	5/8	7/8	8	22
HAR MAH8	7/16	3/4	1	11	25

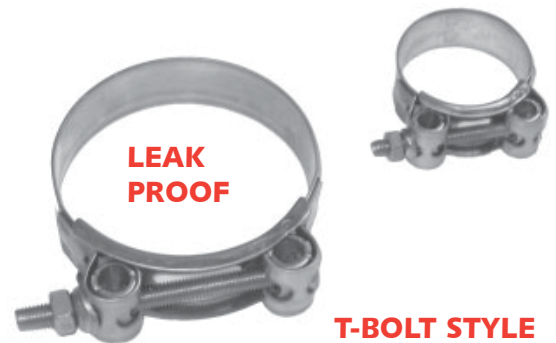
## Super Clamp

A Unique Clamp: DURABLE, RE-USABLE AND LEAK PROOF.

The wide, smooth band clamping surface, tough high torque single bolt, and special "no-pinch" tightening design makes this hose clamp truly 'SUPER'.

MATERIAL: ZINC PLATED MILD STEEL or ALL STAINLESS STEEL

PART NUMBER MILD STEEL	PART NUMBER STAINLESS STEEL	BAND WIDTH INCHES	SIZE RANGE INCHES	
			FROM	TO
75792	n/a	25/32	1 1/16"	3/4"
75793	n/a	25/33	13/16"	29/32"
75794	n/a	25/34	29/32"	1"
75795	n/a	25/35	1 1/16"	1 5/32"
75796	75825	7/8	1 5/32"	1 7/32"
75797	75826	7/8	1 7/32"	1 5/16"
75798	75827	7/8	1 7/16"	1 9/16"
75799	76100	7/8	1 9/16"	1 11/16"
75800	75828	7/8	1 11/16"	1 27/32"
75801	76101	7/8	1 27/32"	2"
75802	76102	7/8	2"	2 5/32"
75803	75829	7/8	2 5/32"	2 5/16"
75804	76103	7/8	2 5/16"	2 15/32"
75805	76104	7/8	2 15/32"	2 11/16"
75806	76105	1 5/64	2 11/16"	2 7/8"
75807	76106	1 5/64	2 7/8"	3 3/32"
75808	75830	1 5/64	3 3/32"	3 5/16"
75809	76107	1 5/64	3 5/16"	3 9/16"
75810	76108	1 5/64	3 9/16"	3 13/16"
75811	75831	1 5/64	3 13/16"	4 3/32"
75812	76109	1 5/64	4 3/32"	4 3/8"
75813	76110	1 5/64	4 3/8"	4 3/4"
75814	75832	1 5/64	4 3/4"	5 1/8"
75815	n/a	1 7/32	5 1/8"	5 1/2"
75816	n/a	1 7/32	5 1/2"	5 7/8"
75817	n/a	1 7/32	5 7/8"	6 3/8"
75818	n/a	1 7/32	6 3/8"	6 7/8"
75819	n/a	1 7/32	6 7/8"	7 3/8"
75820	n/a	1 7/32	7 3/8"	7 7/8"
75821	n/a	1 7/32	7 7/8"	8 3/8"
75822	n/a	1 7/32	8 3/8"	8 7/8"
75823	n/a	1 7/32	8 7/8"	9 3/8"
75824	n/a	1 7/32	9 3/8"	9 7/8"





**Male Pipe Thread Sizes**

1/8"



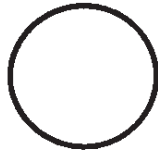
1/4"



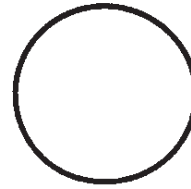
3/8"



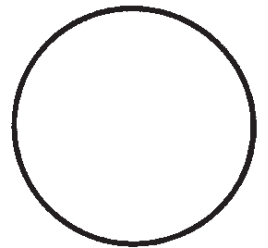
1/2"



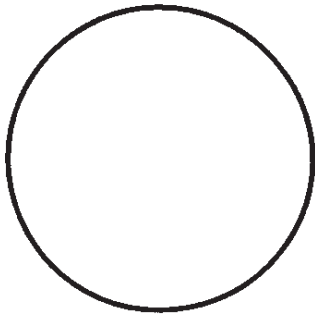
3/4"



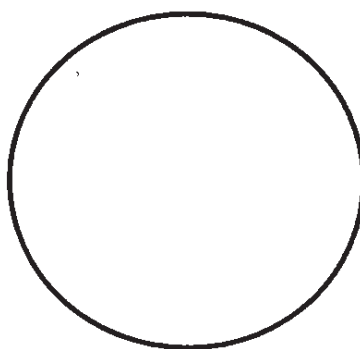
1"



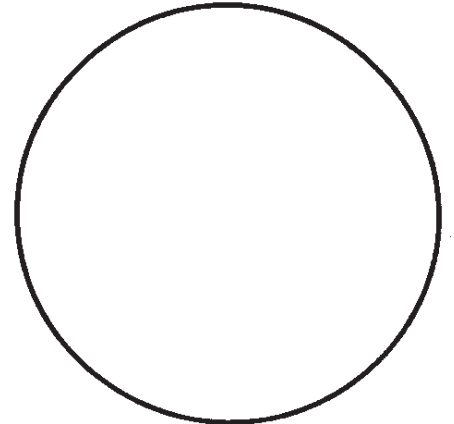
1-1/4"



1-1/2"



2"



**Hose Barb**

1/4"



3/8"



1/2"



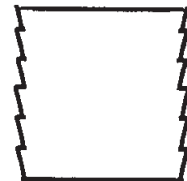
5/8"



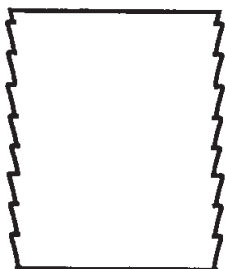
3/4"



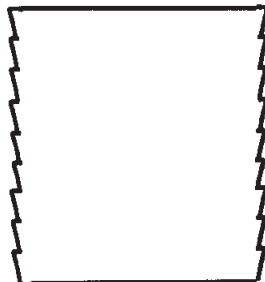
1"



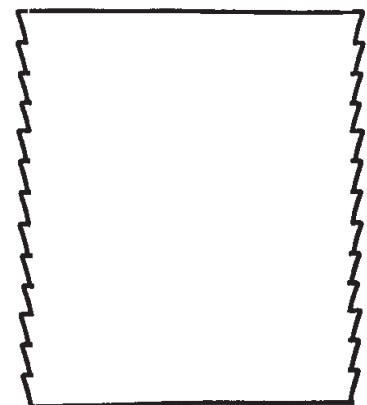
1-1/4"



1-1/2"



2"

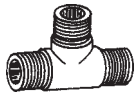


**Fittings - P = PolySch 40**
**FITTINGS -PRESSURE TO 150 PSI @ 70°F**

**1 - Female Pipe Tee**

**NOTE : FOR  
BRANCH TEE'S SEE  
SECTION 11 OF  
WESTWARD PARTS  
CATALOGUE**

REF NO.	DESCRIPTION FPT X FPT X FPT	PART NO. NYLON	PART NO. BANJO SCH. 80 POLYPROPYLENE	PART NO. BRASS	PART NO. BLACK IRON	PART NO. GALVANIZED	PART NO. 304 STAINLESS STEEL
1	1/8 x 1/8 x 1/8	n/a	n/a	73174	HYD63801	HYDG63801	75841
1	1/4 x 1/4 x 1/4	73400	n/a	73175	HYD63802	HYDG63802	75842
1	3/8 x 3/8 x 3/8	758 79-P	73333	73176	HYD63803	HYDG63803	75843
1	1/2 x 1/2 x 1/2	73401	73334	73177	HYD63804	HYDG63804	75844
1	3/4 x 3/4 x 3/4	73402	73335	73178	HYD63805	HYDG63805	75845
1	1 x 1 x 1	73403	73336	n/a	HYD63806	HYDG63806	75846
1	1 1/4 x 1 1/4 x 1 1/4	73404	73337	n/a	HYD63807	HYDG63807	75847
1	1 1/2 x 1 1/2 x 1 1/2	73405	73338	n/a	HYD63808	HYDG63808	75848
1	2 x 2 x 2	73406	73339	n/a	HYD63809	HYDG63809	75849
1	3 x 3 x 3	75 878-P	73340	n/a	HYD63810	HYDG63810	75850


**2 - Male Pipe Tee**

REF NO.	DESCRIPTION MPT X MPT X MPT	PART NO. NYLON	PART NO. BANJO SCH. 80 POLYPROPYLENE	PART NO. BRASS	PART NO. BLACK IRON	PART NO. GALVANIZED	PART NO. 304 STAINLESS STEEL
2	1/2 x 1/2 x 1/2	79104	n/a	73179	n/a	n/a	n/a


**3 - Female Pipe Gauge Tee**

REF NO.	DESCRIPTION FPT X GAUGE PORT	PART NO. NYLON	PART NO. BANJO SCH. 80 POLYPROPYLENE	PART NO. BRASS	PART NO. BLACK IRON	PART NO. GALVANIZED	PART NO. 304 STAINLESS STEEL
3	1/2 x 1/8	73181	n/a	n/a	n/a	n/a	n/a
3	1/2 x 1/4	73394	n/a	n/a	n/a	n/a	n/a
3	3/4 x 1/8	73395	n/a	n/a	n/a	n/a	n/a
3	3/4 x 1/4	73407	n/a	n/a	n/a	n/a	n/a
3	1 x 1/4	73396	73182	n/a	n/a	n/a	n/a
3	1 1/4 x 1/4	73397	n/a	n/a	n/a	n/a	n/a
3	1 1/2 x 1/4	73398	n/a	n/a	n/a	n/a	n/a
3	2 x 1/4	73399	n/a	n/a	n/a	n/a	n/a


**4 - Female Pipe Elbow 90°**

REF NO.	DESCRIPTION FPT X FPT	PART NO. NYLON	PART NO. BANJO SCH. 80 POLYPROPYLENE	PART NO. BRASS	PART NO. BLACK IRON	PART NO. GALVANIZED	PART NO. 304 STAINLESS STEEL
4	1/8 x 1/8	n/a	n/a	73186	HYD63001	HYDG63001	75836
4	1/4 x 1/4	73189	n/a	73188	HYD63002	HYDG63002	75837
4	3/8 x 3/8	758 80-P	73190	73191	HYD63003	HYDG63003	75838
4	1/2 x 1/2	73410	73345	73192	HYD63004	HYDG63004	75839
4	3/4 x 3/4	73411	73346	73193	HYD63005	HYDG63005	75840
4	1 x 1	73412	73347	n/a	HYD63006	HYDG63006	75851
4	1 1/4 x 1 1/4	73413	73348	n/a	HYD63007	HYDG63007	75852
4	1 1/2 x 1 1/2	73414	73349	n/a	HYD63008	HYDG63008	75853
4	2 x 2	73415	73350	n/a	HYD63009	HYDG63009	75854
4	3 x 3	758 81-P	73351	n/a	HYD63010	HYDG63010	75855


**5 - 45° Female Pipe Elbow**

For other 45° elbows see section 11  
in Westward Parts catalogue

REF NO.	DESCRIPTION FPT X FPT	PART NO. NYLON	PART NO. BANJO SCH. 80 POLYPROPYLENE	PART NO. BRASS	PART NO. BLACK IRON	PART NO. GALVANIZED	PART NO. 304 STAINLESS STEEL
5	1/8 x 1/8	n/a	n/a	75308	HYD63101	HYDG63101	75314
5	1/4 x 1/4	n/a	n/a	75309	HYD63102	HYDG63102	75315
5	3/8 x 3/8	n/a	n/a	75310	HYD63103	HYDG63103	75316
5	1/2 x 1/2	n/a	n/a	75311	HYD63104	HYDG63104	75317
5	3/4 x 3/4	n/a	n/a	75312	HYD63105	HYDG63105	75318
5	1 x 1	n/a	73799	75313	HYD63106	HYDG63106	75856

**Fittings - P = PolySch 40**



**6 - 90° Street Elbow**

REF NO.	DESCRIPTION FPT X MPT	PART NO. NYLON	PART NO. BANJO SCH. 80 POLYPROPYLENE	PART NO. BRASS	PART NO. BLACK IRON	PART NO. GALVANIZED	PART NO. 304 STAINLESS STEEL
6	1/8 x 1/8	75857	n/a	73194	HYD63201	HYDG63201	75858
6	1/4 x 1/4	73418	n/a	73283	HYD63202	HYDG63202	75859
6	3/8 x 3/8	73409	73356	73284	HYD63203	HYDG63203	75860
6	1/2 x 1/2	73419	73357	73285	HYD63204	HYDG63204	75861
6	3/4 x 3/4	73420	73358	73286	HYD63205	HYDG63205	75862
6	1 x 1	73421	73359	n/a	HYD63206	HYDG63206	75863
6	1 1/4 x 1 1/4	73422	73360	n/a	HYD63220	HYDG63220	75864
6	1 1/2 x 1 1/2	73423	73361	n/a	HYD63230	HYDG63230	75865
6	2 x 2	73424	73362	n/a	HYD63231	HYDG63231	75866
6	3 x 3	758 82-P	73363	n/a	HYD63232	HYDG63232	75867



**7 - 45° Street Elbow**

REF NO.	DESCRIPTION FPT X MPT	PART NO. NYLON	PART NO. BANJO SCH. 80 POLYPROPYLENE	PART NO. BRASS	PART NO. BLACK IRON	PART NO. GALVANIZED	PART NO. 304 STAINLESS STEEL
7	1/8 x 1/8	n/a	n/a	73287	HYD63301	n/a	n/a
7	1/4 x 1/4	73807	n/a	73295	HYD63302	n/a	n/a
7	3/8 x 3/8	n/a	n/a	73296	HYD63303	n/a	n/a
7	1/2 x 1/2	758 83-P	n/a	73297	HYD63304	HYDG63304	n/a
7	3/4 x 1/2	73809	n/a	n/a	n/a	n/a	n/a
7	3/4 x 3/4	73808	73364	73298	HYD63305	HYDG63305	n/a
7	1 x 1	758 84-P	73365	n/a	HYD63306	HYDG63306	n/a
7	1 1/4 x 1 1/4	758 85-P	73366	n/a	HYD63307	HYDG63307	n/a
7	1 1/2 x 1 1/2	758 86-P	73367	n/a	HYD63308	HYDG63308	n/a
7	2 x 2	758 87-P	73368	n/a	HYD63309	HYDG63309	n/a
7	3 x 3	758 88-P	73386	n/a	n/a	n/a	n/a



**8 - Female Couplings**

REF NO.	DESCRIPTION FPT X FPT	PART NO. NYLON	PART NO. BANJO SCH. 80 POLYPROPYLENE	PART NO. BRASS	PART NO. BLACK IRON	PART NO. GALVANIZED	PART NO. 304 STAINLESS STEEL
8	1/8 x 1/8	73456	n/a	73307	HYD61081	HYDG61081	75868
8	1/4 x 1/4	73464	n/a	73308	HYD61082	HYDG61082	75869
8	3/8 x 3/8	73465	73321	73309	HYD61083	HYDG61083	75870
8	1/2 x 1/2	73458	73322	73310	HYD61084	HYDG61084	75871
8	3/4 x 3/4	73459	73323	73317	HYD61085	HYDG61085	75872
8	1 x 1	73460	73324	n/a	HYD61086	HYDG61086	75873
8	1 1/4 x 1 1/4	73461	73325	n/a	HYD61087	HYDG61087	75874
8	1 1/2 x 1 1/2	73462	73326	n/a	HYD61088	HYDG61088	75875
8	2 x 2	73463	73327	n/a	HYD61089	HYDG61089	75876
8	3 x 3	758 89-P	73328	n/a	HYD61090	HYDG61090	75877



**8A Unions**

REF NO.	DESCRIPTION FPT X FPT	PART NO. NYLON	PART NO. BANJO SCH. 80 POLYPROPYLENE	PART NO. BRASS	PART NO. BLACK IRON	PART NO. GALVANIZED	PART NO. 304 STAINLESS STEEL
8A	1/8 x 1/8	n/a	n/a	75319	HYD61001	HYDG61001	75325
8A	1/4 x 1/4	n/a	n/a	75320	HYD61002	HYDG61002	75326
8A	3/8 x 3/8	n/a	n/a	75321	HYD61003	HYDG61003	75327
8A	1/2 x 1/2	n/a	n/a	75322	HYD61004	HYDG61004	75328
8A	3/4 x 3/4	n/a	n/a	75323	HYD61005	HYDG61005	75329
8A	1 x 1	n/a	n/a	75324	HYD61006	HYDG61006	75330

**Fittings - P = PolySch 40**

**9 - Female Reducing  
Pipe Coupling**

REF NO.	DESCRIPTION FPT X FPT	PART NO. NYLON	PART NO. BANJO SCH. 80 POLYPROPYLENE	PART NO. BRASS	PART NO. BLACK IRON	PART NO. GALVANIZED	PART NO. 304 STAINLESS STEEL
9	1/4 x 1/8	73618	n/a	73318	HYD62001	HYDG62001	n/a
9	3/8 x 1/8	n/a	n/a	73319	HYD62011	HYDG62011	n/a
9	3/8 x 1/4	73619	n/a	73320	HYD62012	HYDG62012	n/a
9	1/2 x 1/8	n/a	n/a	75903	HYD62021	HYDG62021	n/a
9	1/2 x 1/4	n/a	n/a	73329	HYD62022	HYDG62022	n/a
9	1/2 x 3/8	73620	n/a	73330	HYD62023	HYDG62023	n/a
9	3/4 x 1/8	n/a	n/a	73331	HYD62031	HYDG62031	n/a
9	3/4 x 1/4	n/a	n/a	73332	HYD62032	HYDG62032	n/a
9	3/4 x 3/8	73341	n/a	73342	HYD62033	HYDG62033	n/a
9	3/4 x 1/2	73621	n/a	73343	HYD62034	HYDG62034	n/a
9	1 x 1/4	n/a	n/a	n/a	HYD62042	HYDG62042	n/a
9	1 x 3/8	n/a	n/a	n/a	HYD62043	HYDG62043	n/a
9	1 x 1/2	n/a	n/a	n/a	HYD62044	HYDG62044	n/a
9	1 x 3/4	758 90-P	73288	n/a	HYD62045	HYDG62045	n/a
9	1 1/4 x 1/2	n/a	n/a	n/a	HYD62046	HYDG62046	n/a
9	1 1/4 x 3/4	n/a	n/a	n/a	HYD62047	HYDG62047	n/a
9	1 1/4 x 1	n/a	n/a	n/a	HYD62048	HYDG62048	n/a
9	1 1/2 x 1/2	n/a	n/a	n/a	n/a	HYDG62049	n/a
9	1 1/2 x 3/4	n/a	n/a	n/a	HYD62050	HYDG62050	n/a
9	1 1/2 x 1	758 91-P	73289	n/a	HYD62051	HYDG62051	n/a
9	1 1/2 x 1 1/4	758 92-P	73290	n/a	HYD62052	HYDG62052	n/a
9	2 x 1/2	n/a	n/a	n/a	HYD62053	HYDG62053	n/a
9	2 x 3/4	n/a	n/a	n/a	HYD62054	HYDG62054	n/a
9	2 x 1	758 93-P	73291	n/a	HYD62055	HYDG62055	n/a
9	2 x 1 1/4	758 94-P	73292	n/a	HYD62056	HYDG62056	n/a
9	2 x 1 1/2	758 95-P	73293	n/a	HYD62057	HYDG62057	n/a
9	3 x 2	758 96-P	73294	n/a	n/a	HYDG62059	n/a


**10 - Female Pipe Cross**

REF NO.	DESCRIPTION FPT	PART NO. NYLON	PART NO. BANJO SCH. 80 POLYPROPYLENE	PART NO. BRASS	PART NO. BLACK IRON	PART NO. GALVANIZED	PART NO. 304 STAINLESS STEEL
10	1/8	n/a	n/a	73344	HYD61021	HYDG61021	75904
10	1/4	n/a	n/a	73352	HYD61022	HYDG61022	75905
10	3/8	n/a	75349	73353	HYD61023	HYDG61023	75906
10	1/2	758 97-P	n/a	73354	HYD61024	HYDG61024	75907
10	3/4	758 98-P	73388	73355	HYD61025	HYDG61025	75908
10	1	758 99-P	73389	n/a	HYD61026	HYDG61026	75909
10	1 1/4	759 00-P	73392	n/a	HYD61027	HYDG61027	75910
10	1 1/2	759 01-P	73390	n/a	HYD61028	HYDG61028	75911
10	2	759 02-P	73391	n/a	HYD61029	HYDG61029	75912

**Fittings**



**11 - Reducer Bushing**

REF NO.	DESCRIPTION MPT X FPT	PART NO. NYLON	PART NO. BANJO SCH. 80 POLYPROPYLENE	PART NO. BRASS	PART NO. BLACK IRON	PART NO. GALVANIZED	PART NO. 304 STAINLESS STEEL
11	1/4 x 1/8	73416	n/a	73552	HYD62101	HYDG62101	75913
11	3/8 x 1/8	73417	n/a	73553	HYD62111	HYDG62111	n/a
11	3/8 x 1/4	73428	73261	73560	HYD62112	HYDG62112	75914
11	1/2 x 1/8	73426	n/a	73609	HYD62121	HYDG62121	n/a
11	1/2 x 1/4	73429	73265	73647	HYD62122	HYDG62122	75915
11	1/2 x 3/8	73430	73266	73648	HYD62123	HYDG62123	75916
11	3/4 x 1/8	73431	73262	73649	HYD62131	HYDG62131	n/a
11	3/4 x 1/4	73432	73267	73650	HYD62132	HYDG62132	75917
11	3/4 x 3/8	73433	73268	73651	HYD62133	HYDG62133	n/a
11	3/4 x 1/2	73434	73269	73652	HYD62134	HYDG62134	75918
11	1 x 1/8	n/a	73263	n/a	HYD62141	HYDG62141	n/a
11	1 x 1/4	n/a	73264	n/a	HYD62142	HYDG62142	n/a
11	1 x 3/8	n/a	n/a	n/a	HYD62143	HYDG62143	n/a
11	1 x 1/2	73435	73270	n/a	HYD62144	HYDG62144	75919
11	1 x 3/4	73436	73271	n/a	HYD62145	HYDG62145	75920
11	1 1/4 x 3/8	n/a	73387	n/a	HYD62147	HYDG62147	n/a
11	1 1/4 x 1/2	73427	n/a	n/a	HYD62148	HYDG62148	n/a
11	1 1/4 x 3/4	73437	73272	n/a	HYD62149	HYDG62149	75921
11	1 1/4 x 1	73438	73273	n/a	HYD62156	HYDG62156	75922
11	1 1/2 x 3/8	n/a	n/a	n/a	HYD62158	HYDG62158	n/a
11	1 1/2 x 1/2	n/a	n/a	n/a	HYD62159	HYDG62159	n/a
11	1 1/2 x 3/4	73444	73274	n.a	HYD62160	HYDG62160	75923
11	1 1/2 x 1	73475	73275	n/a	HYD62161	HYDG62161	75924
11	1 1/2 x 1 1/4	73439	73276	n/a	HYD62162	HYDG62162	75925
11	2 x 1/2	n/a	n/a	n/a	HYD62163	HYDG62163	n/a
11	2 x 3/4	73445	73277	n/a	HYD62164	HYDG62164	n/a
11	2 x 1	73441	73278	n/a	HYD62165	HYDG62165	n/a
11	2 x 1 1/4	73440	73279	n/a	HYD62166	HYDG62166	n/a
11	2 x 1 1/2	73442	73280	n.a	HYD62175	HYDG62175	75926
11	2 1/2 x 2	75928	n/a	n/a	n/a	n/a	n/a
11	3 x 1 1/2	n/a	73281	n/a	n/a	n/a	n/a
11	3 x 2	73443	73282	n/a	HYD62180	HYDG62180	75927
11	4 x 2	n/a	n/a	n/a	HYD62191	HYDG62191	n/a
11	4 x 3	n/a	73408	n/a	HYD62192	HYDG62192	n/a

**Fittings - P = PolySch 40**


12 - Pipe Cap

REF NO.	DESCRIPTION CAP	PART NO. NYLON	PART NO. BANJO SCH. 80 POLYPROPYLENE	PART NO. BRASS	PART NO. BLACK IRON	PART NO. GALVANIZED	PART NO. 304 STAINLESS STEEL
12	1/8	n/a	n/a	73653	HYD61061	HYDG61061	75933
12	1/4	73622	n/a	73654	HYD61062	HYDG61062	75934
12	3/8	73623	n/a	73655	HYD61063	HYDG61063	75935
12	1/2	73624	73694	73656	HYD61064	HYDG61064	75936
12	3/4	73625	73312	73657	HYD61065	HYDG61065	75937
12	1	759 29-P	73313	n/a	HYD61066	HYDG61066	75938
12	1 1/4	n/a	73311	n/a	HYD61070	HYDG61070	75939
12	1 1/2	759 30-P	73314	n/a	HYD61071	HYDG61071	75940
12	2	759 31-P	73315	n/a	HYD61072	HYDG61072	75941
12	3	759 32-P	73316	n/a	HYD61073	HYDG61073	75942



13 - Pipe Plug

REF NO.	DESCRIPTION PLUG	PART NO. NYLON	PART NO. BANJO SCH. 80 POLYPROPYLENE	PART NO. BRASS	PART NO. BLACK IRON	PART NO. GALVANIZED	PART NO. 304 STAINLESS STEEL
13	1/8	73466	n/a	73658	HYD61041	HYDG61041	75943
13	1/4	73467	n/a	73659	HYD61042	HYDG61042	75944
13	3/8	73468	n/a	73695	HYD61043	HYDG61043	75945
13	1/2	73469	73300	73696	HYD61044	HYDG61044	75946
13	3/4	73470	73301	73697	HYD61045	HYDG61045	75947
13	1	73471	73302	n/a	HYD61046	HYDG61046	75948
13	1 1/4	73472	73303	n/a	HYD61049	HYDG61049	75949
13	1 1/2	73474	73304	n/a	HYD61050	HYDG61050	75950
13	2	73473	73305	n/a	HYD61051	HYDG61051	75951
13	3	759 53-P	73306	n/a	HYD61052	HYDG61052	75952



14 - Close Pipe Nipples

REF NO.	DESCRIPTION MPT X CLOSE	PART NO. NYLON	PART NO. BANJO SCH. 80 POLYPROPYLENE	PART NO. BRASS	PART NO. BLACK IRON	PART NO. GALVANIZED	PART NO. 304 STAINLESS STEEL
14	1/8	73455	n/a	73698	HYD60101	HYDG60101	75957
14	1/4	73446	75956	73699	HYD60201	HYDG60201	75958
14	3/8	73447	73239	73766	HYD60301	HYDG60301	75959
14	1/2	73448	73240	73767	HYD60401	HYDG60401	75960
14	3/4	73449	73242	73768	HYD60601	HYDG60601	75961
14	1	73450	73245	n/a	HYD60801	HYDG60801	75962
14	1 1/4	73451	73248	n/a	HYD61101	HYDG61101	75963
14	1 1/2	73452	73251	n/a	HYD61201	HYDG61201	75964
14	2	73453	73254	n/a	HYD61601	HYDG61601	75965
14	3	75 954-P	73257	n/a	HYD62401	HYDG62401	75966
14	4	75 955-P	73798	n/a	HYD60321	HYDG60321	75967

**Fittings - P = PolySch 40**



15 - Long Pipe Nipples



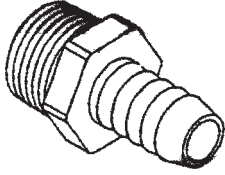
**NOTE: FOR OTHER LONG NIPPLES SEE SECTION 11 OF WESTWARD PARTS CATALOGUE**

REF NO.	DESCRIPTION MPT X LONG	PART NO. NYLON	PART NO. BANJO SCH. 80 POLYPROPYLENE	PART NO. BRASS	PART NO. BLACK IRON	PART NO. GALVANIZED	PART NO. 304 STAINLESS STEEL
15	1/8 x 2	n/a	n/a	73769	HYD60103	HYDG60103	75982
15	1/8 x 3	n/a	n/a	73806	HYD60105	HYDG60105	75983
15	1/8 x 4	n/a	n/a	73816	HYD60107	HYDG60107	75984
15	1/4 x 2	n/a	n.a	73817	HYD60203	HYDG60203	75985
15	1/4 x 3	n/a	n/a	73818	HYD60205	HYDG60205	75986
15	1/4 x 4	n/a	n/a	73819	HYD60207	HYDG60207	75987
15	3/8 x 2	n/a	n/a	73827	HYD60303	HYDG60303	75988
15	3/8 x 3	n/a	n/a	73831	HYD60305	HYDG60305	75280
15	3/8 x 4	n/a	n/a	73834	HYD60307	HYDG60307	75281
15	1/2 x 3	759 68-P	73241	73838	HYD60405	HYDG60405	75282
15	3/4 x 4	759 69-P	73243	73839	HYD60607	HYDG60607	75283
15	3/4 x 6	759 70-P	73244	73856	HYD60610	HYDG60610	75284
15	1 x 4	759 71-P	73246	n/a	HYD60806	HYDG60806	75285
15	1 x 6	759 72-P	73247	n/a	HYD60810	HYDG60810	75286
15	1 1/4 x 4	759 73-P	73249	n/a	HYD61106	HYDG61106	75287
15	1 1/4 x 6	759 74-P	73250	n/a	HYD61110	HYDG61110	75288
15	1 1/2 x 3	759 75-P	73857	n/a	HYD61204	HYDG61204	75289
15	1 1/2 x 4	759 76-P	73252	n/a	HYD61206	HYDG61206	75290
15	1 1/2 x 5	n/a	73858	n/a	HYD61208	HYDG61208	75291
15	1 1/2 x 6	759 77-P	73253	n/a	HYD61210	HYDG61210	75292
15	2 x 4	759 78-P	73255	n/a	HYD61605	HYDG61605	75293
15	2 x 6	759 79-P	73256	n/a	HYD61609	HYDG61609	75294
15	3 x 4	759 80-P	73258	n/a	HYD62404	HYDG62404	75295
15	3 x 6	759 81-P	73259	n/a	HYD62408	HYDG62408	75296



16 - Reducing Nipples

REF NO.	DESCRIPTION MPT X MPT	PART NO. NYLON	PART NO. BANJO SCH. 80 POLYPROPYLENE	PART NO. BRASS	PART NO. BLACK IRON	PART NO. GALVANIZED	PART NO. STAINLESS STEEL
16	1/4 x 1/8	73610	n/a	73859	n/a	n/a	n/a
16	3/8 x 1/8	73611	n/a	73868	n/a	n/a	n/a
16	3/8 x 1/4	73612	n/a	73869	n/a	n/a	n/a
16	1/2 x 1/8	73613	n/a	n/a	n/a	n/a	n/a
16	1/2 x 1/4	73614	n/a	73870	n/a	n/a	n/a
16	1/2 x 3/8	73454	73375	73871	n/a	n/a	n/a
16	3/4 x 3/8	73615	n/a	n/a	n/a	n/a	n/a
16	3/4 x 1/2	73616	73377	73872	n/a	n/a	n/a
16	1 x 1/2	752 97-P	73376	n/a	n/a	n/a	n/a
16	1 x 3/4	752 98-P	73378	n/a	n/a	n/a	n/a
16	1 1/4 x 3/4	752 99-P	73383	n/a	n/a	n/a	n/a
16	1 1/4 x 1	73617	73379	n/a	n/a	n/a	n/a
16	1 1/2 x 1	753 00-P	73384	n/a	n/a	n/a	n/a
16	1 1/2 x 1 1/4	753 01-P	73380	n/a	n/a	n/a	n/a
16	2 x 1 1/4	753 02-P	73385	n/a	n/a	n/a	n/a
16	2 x 1 1/2	753 03-P	73381	n/a	n/a	n/a	n/a
16	3 x 2	753 04-P	73382	n/a	n/a	n/a	n/a
16	4 x 3	n/a	74889	n/a	n/a	n/a	n/a

**Fittings - P = PolySch 40**


17 - Male Pipe Thread x Hose Barb

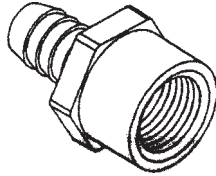


17 - Male Pipe Thread x Hose Barb

REF NO.	DESCRIPTION MPT X HB	PART NO. NYLON	PART NO. BANJO SCH. 80 POLYPROPYLENE	PART NO. BRASS	PART NO. 316 STAINLESS STEEL
17	1/8 x 1/8	n/a	n/a	73873	n/a
17	1/8 x 3/16	75305	n/a	n/a	n/a
17	1/8 x 1/4	73484	n/a	73876	n/a
17	1/8 x 3/8	73483	n/a	73930	n/a
17	1/4 x 1/4	73487	73200	73929	75331
17	1/4 x 3/8	73486	73195	73931	75332
17	1/4 x 1/2	73485	n/a	73932	75333
17	3/8 x 1/4	73490	n/a	73933	n/a
17	3/8 x 3/8	73489	73201	73934	75334
17	3/8 x 1/2	73488	73196	73935	75335
17	3/8 x 3/4	73936	n/a	n/a	n/a
17	1/2 x 1/4	73495	n/a	73937	n/a
17	1/2 x 3/8	73494	73202	73938	n/a
17	1/2 x 1/2	73493	73203	73939	75336
17	1/2 x 5/8	73492	n/a	73940	75345
17	1/2 x 3/4	73491	73204	73941	75346
17	1/2 x 1	73942	n/a	n/a	n/a
17	3/4 x 1/4	79300	n/a	n/a	n/a
17	3/4 x 3/8	73500	73197	73943	n/a
17	3/4 x 1/2	73499	73205	73944	75347
17	3/4 x 5/8	73498	73207	73945	n/a
17	3/4 x 3/4	73497	73206	73946	75337
17	3/4 x 1	73496	73208	73947	75338
17	3/4 x 1 1/4	73948	n/a	n/a	n/a
17	1 x 3/8	73949	n/a	n/a	n/a
17	1 x 1/2	73950	n/a	n/a	n/a
17	1 x 5/8	73951	n/a	n/a	n/a
17	1 x 3/4	73505	73209	n/a	75348
17	1 x 1	73506	73210	n/a	75339
17	1 x 1 1/4	73507	73211	n/a	n/a
17	1 1/4 x 3/4	73508	73212	n/a	n/a
17	1 1/4 x 1	73509	73213	n/a	n/a
17	1 1/4 x 1 1/4	73510	73214	n/a	75340
17	1 1/4 x 1 1/2	73511	73198	n/a	n/a
17	1 1/2 x 3/4	73952	n/a	n/a	n/a
17	1 1/2 x 1	73953	73215	n/a	n/a
17	1 1/2 x 1 1/4	73512	73216	n/a	n/a
17	1 1/2 x 1 1/2	73513	73217	n/a	75341
17	1 1/2 x 2	73604	73199	n/a	n/a
17	2 x 1 1/2	73954	73219	n/a	n/a
17	2 x 2	73514	73218	n/a	75342
17	3 x 3	753 06-P	73220	n/a	75343
17	4 x 4	753 07-P	73797	n/a	75344

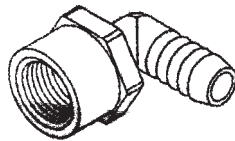


**Fittings - P = PolySch 40**



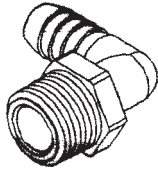
**18 - Female Pipe Thread x Hose Barb**

REF NO.	DESCRIPTION FPT X HB	PART NO. NYLON	PART NO. BANJO SCH. 80 POLYPROPYLENE	PART NO. BRASS
18	1/8 X 1/8	n/a	n/a	73955
18	1/8 X 1/4	73956	n/a	73957
18	1/8 X 3/8	73958	n/a	73959
18	1/4 X 1/8	79263	n/a	73960
18	1/4 X 1/4	73961	n/a	73962
18	1/4 X 3/8	79262	n/a	73963
18	3/8 X 1/4	73964	n/a	73965
18	3/8 X 3/8	73966	n/a	73967
18	3/8 X 1/2	73968	n/a	73969
18	1/2 X 1/4	73970	n/a	n/a
18	1/2 X 3/8	73971	n/a	73972
18	1/2 X 1/2	73973	n/a	73974
18	1/2 X 5/8	73975	n/a	n/a
18	1/2 X 3/4	73976	n/a	n/a
18	3/4 X 3/8	73977	n/a	n/a
18	3/4 X 1/2	73978	n/a	n/a
18	3/4 X 5/8	75356	n/a	n/a
18	3/4 X 3/4	73646	73979	n/a
18	3/4 X 1	n/a	73980	n/a
18	1 X 1	753 57-P	73981	n/a



**19 - 90° Female Pipe Thread x Hose Barb**

REF NO.	DESCRIPTION FPT X HB	PART NO. NYLON
19	1/8 X 1/4	73982
19	1/8 X 3/8	73983
19	1/4 X 1/4	73984
19	1/4 X 3/8	73985
19	3/8 X 1/4	73986
19	3/8 X 3/8	73987
19	3/8 X 1/2	73564
19	1/2 X 1/2	73988
19	1/2 X 5/8	73989
19	1/2 X 3/4	73990
19	3/4 X 1/2	73562
19	3/4 X 5/8	73991
19	3/4 X 3/4	73563

**Fittings - P = PolySch 40**


20 - 90° Male Pipe Thread x Hose Barb



20 - 90° Male Pipe Thread x Hose Barb

REF NO.	DESCRIPTION MPT X HB	PART NO. NYLON	PART NO. BANJO SCH. 80 POLYPROPYLENE	PART NO. BRASS
20	1/8 X 3/16	73558	n/a	n/a
20	1/8 X 1/4	73541	n/a	73992
20	1/8 X 3/8	73993	n/a	73994
20	1/4 X 1/4	73528	73221	73995
20	1/4 X 3/8	73531	74039	73996
20	1/4 X 1/2	73530	n/a	73997
20	1/4 X 5/8	73532	n/a	n/a
20	3/8 X 1/4	73533	n/a	n/a
20	3/8 X 3/8	73534	73222	73998
20	3/8 X 1/2	73535	n/a	73999
20	3/8 X 5/8	74021	n/a	74022
20	3/8 X 3/4	73536	n/a	n/a
20	1/2 X 1/4	73529	n/a	n/a
20	1/2 X 3/8	73537	73223	74023
20	1/2 X 1/2	73538	73224	74024
20	1/2 X 5/8	73539	n/a	74025
20	1/2 X 3/4	73540	73225	n/a
20	1/2 X 1	74026	n/a	n/a
20	3/4 X 1/4	74029	n/a	n/a
20	3/4 X 3/8	73543	n/a	n/a
20	3/4 X 1/2	73544	73226	n/a
20	3/4 X 5/8	73545	n/a	n/a
20	3/4 X 3/4	73546	73227	78410
20	3/4 X 1	73547	73228	n/a
20	1 X 1/2	73548	n/a	n/a
20	1 X 5/8	73550	n/a	n/a
20	1 X 3/4	73549	73229	n/a
20	1 X 1	73551	73230	n/a
20	1 X 1 1/4	753 59-P	73231	n/a
20	1 1/4 X 3/4	73554	n/a	n/a
20	1 1/4 X 1	73555	73232	n/a
20	1 1/4 X 1 1/4	73556	73233	n/a
20	1 1/4 X 1 1/2	73557	n/a	n/a
20	1 1/2 X 3/4	74033	n/a	n/a
20	1 1/2 X 1	74034	n/a	n/a
20	1 1/2 X 1 1/4	74038	73237	n/a
20	1 1/2 X 1 1/2	73558	73234	n/a
20	2 X 1 1/2	753 60-P	73238	n/a
20	2 X 2	73559	73235	n/a
20	3 X 3	753 61-P	73236	n/a

**Fittings - P = PolySch 40**



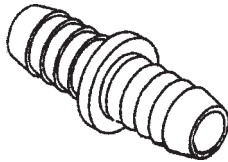
**21 - Tee Male Pipe Thread x  
Hose Barb x Hose Barb**

REF NO.	DESCRIPTION MPT X HB X HB	PART NO. NYLON	PART NO. BANJO SCH. 80 POLYPROPYLENE
21	1/8 X 1/4 X 1/4	73627	n/a
21	1/4 X 1/4 X 1/4	73628	n/a
21	1/4 X 3/8 X 3/8	73629	n/a
21	1/4 X 1/2 X 1/2	73630	n/a
21	3/8 X 1/4 X 1/4	73631	n/a
21	3/8 X 3/8 X 3/8	73632	n/a
21	3/8 X 1/2 X 1/2	73633	n/a
21	1/2 X 3/8 X 3/8	73634	n/a
21	1/2 X 1/2 X 1/2	73635	n/a
21	1/2 X 3/4 X 3/4	74040	n/a
21	3/4 X 1/2 X 1/2	74041	n/a
21	3/4 X 5/8 X 5/8	74042	n/a
21	3/4 X 3/4 X 3/4	73636	n/a
21	3/4 X 1 X 1	73637	n/a
21	1 X 1 1/2 X 1 1/2	n/a	74043
21	1 1/2 X 1 1/2 X 1 1/2	n/a	74044



**22 - Tee Female Pipe Thread x  
Hose Barb x Hose Barb**

REF NO.	DESCRIPTION FPT X HB X HB	PART NO. NYLON
22	1/4 X 3/8 X 3/8	73810
22	1/4 X 1/2 X 1/2	73172
22	1/2 X 1/2 X 1/2	75072
22	3/4 X 3/4 X 3/4	73638
22	3/4 X 1 1/4 X 1 1/4	74045



**23 - Hose Menders**

REF NO.	DESCRIPTION HB X HB	PART NO. NYLON	PART NO. BANJO SCH. 80 POLYPROPYLENE	PART NO. BRASS	PART NO. PLATED MILD STEEL
23	1/8	73565	n/a	n/a	n/a
23	3/16	75362	n/a	n/a	n/a
23	1/4	73577	n/a	74046	n/a
23	3/8	73578	n/a	74047	n/a
23	1/2	73579	73820	74048	74960
23	5/8	73582	n/a	n/a	n/a
23	3/4	73583	73821	n/a	74961
23	1	73584	73822	n/a	74962
23	1 1/4	73585	73823	n/a	74963
23	1 1/2	73586	73824	n/a	74964
23	2	73587	73825	n/a	74965
23	3	753 63-P	73826	n/a	74966
23	4	n/a	n/a	n/a	74967



**24 - Reducing Hose Menders**

REF NO.	DESCRIPTION HB X HB	PART NO. NYLON
24	1/8 X 1/4	74049
24	1/4 X 3/8	73575
24	1/4 X 1/2	73576
24	3/8 X 1/2	73580
24	3/8 X 5/8	73588
24	1/2 X 5/8	73581
24	1/2 X 3/4	74050

**Fittings - P = PolySch 40**

**25 - 90° Hose Barb x Hose Barb Elbow**

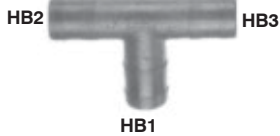
REF NO.	DESCRIPTION HB X HB	PART NO. NYLON	PART NO. BANJO SCH. 80 POLYPROPYLENE
25	1/4	73566	n/a
25	3/8	73567	79561
25	1/2	73569	n/a
25	5/8	74051	n/a
25	3/4	73570	n/a
25	1	73571	73180
25	1 1/4	73572	n/a
25	1 1/2	73573	n/a
25	2	73574	n/a


**26 - 90° Reducing Elbow Hose Barb x Barb**

REF NO.	DESCRIPTION HB X HB	PART NO. NYLON
26	1/4 X 3/8	74052
26	1/4 X 1/2	73561
26	3/8 X 1/2	73568
26	5/8 X 3/4	74053

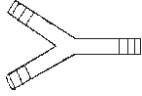

**27 - Hose Barb Tee HB x HB x HB**

REF NO.	DESCRIPTION HB X HB X HB	PART NO. NYLON	PART NO. BANJO SCH. 80 POLYPROPYLENE	PART NO. BRASS
27	1/8	73589	n/a	n/a
27	3/16	73602	n/a	n/a
27	1/4	73590	n/a	74054
27	5/16	78452	n/a	n/a
27	3/8	73591	n/a	74055
27	1/2	73592	n/a	n/a
27	5/8	73595	n/a	n/a
27	3/4	73596	73370	n/a
27	1	73597	73371	n/a
27	1 1/4	73598	n/a	n/a
27	1 1/2	73599	n/a	n/a
27	2	73600	n/a	n/a


**28 - Reducing Hose Barb Tee HB1 x HB2 x HB3**

REF NO.	DESCRIPTION HB1 X HB2 X HB3	PART NO. NYLON	PART NO. BANJO SCH. 80 POLYPROPYLENE
28	1/4 X 3/8 X 3/8	73605	n/a
28	1/4 X 1/2 X 1/2	73601	n/a
28	1/4 X 5/8 X 5/8	74056	n/a
28	3/8 X 1/4 X 1/4	73606	n/a
28	3/8 X 1/2 X 1/2	73593	73372
28	3/8 X 5/8 X 5/8	74057	n/a
28	3/8 X 3/4 X 3/4	74058	n/a
28	1/2 X 3/8 X 3/8	73607	n/a
28	1/2 X 5/8 X 5/8	74059	n/a
28	1/2 X 3/4 X 3/4	73608	73373
28	3/4 X 1/2 X 1/2	73594	73369
28	3/4 X 1 X 1	n/a	73374
28	1 X 3/4 X 3/4	n/a	74060

**Fittings - P = PolySch 40**



29 - Hose Barb Y

REF NO.	DESCRIPTION HB X HB X HB	PART NO. NYLON
29	3/16 X 3/16 X 3/16	753 64-P
29	1/4 X 1/4 X 1/4	753 65-P
29	5/16 X 5/16 X 5/16	753 66-P
29	3/8 X 3/8 X 3/8	74061
29	1/2 X 1/2 X 1/2	753 67-P



30 - Swivel Nut

REF NO.	DESCRIPTION SWIVEL NUT	PART NO. NYLON
30	3/4 FPT	73516
30	3/4 FGHT	73515
30	1" FNPT*	74063

\*Can only be used with 73522 Hose Barb insert



31 - Hose Barb Inserts

REF NO.	DESCRIPTION HB INSERT	PART NO. NYLON	DESCRIPTION
31	1/4	73517	To fit item #30
31	1/4	74062	Fits 11/16" nozzle cap
31	3/8	73518	To fit item #30
31	3/8	73523	Fits 11/16" nozzle cap
31	1/2	73519	To fit item #30
31	1/2	73524	Fits 11/16" nozzle cap
31	5/8	73520	To fit item #30
31	3/4	73521	To fit item #30
31	1	73522*	To fit item #30 74063

\* Can only be used with 74063 swivel nut



31A - Threaded Hose Barb Inserts

REF NO.	DESCRIPTION	PART NO.
31A	3/8 MNPT to fit Item #30	73542
31A	1/2 MNPT to fit Item #30	79115



32 - Rubber washer w/screen

REF NO.	DESCRIPTION	PART NO.
32	Rubber w/screen 12 mesh	75368
32	Rubber w/screen 30 mesh	73645
32	Rubber w/screen 50 mesh	75369



33 - Rubber Washer

REF NO.	DESCRIPTION	PART NO.
33	Rubber washer	73644



34 - Nylon Washer

REF NO.	DESCRIPTION	PART NO.
34	Nylon washer	73626

## Fittings

REF NO.	DESCRIPTION	PART NO.
35	½ NPT - female x ½ NPT - Male	75370


**35 ADAPTER**

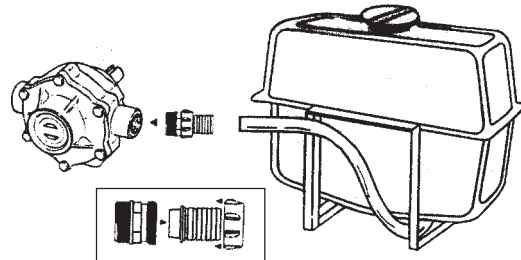
## Nylon Quick Couplers for Hose

Hose & pump-saver is a three piece assembly - hose barb, fly nut and nipple - that allows you to disconnect hose from your pump without cutting or removing the hose.

- Nylon material safe for most ag chemicals
- 150 PSI Rating
- Sizes, 3/4" thru 2"

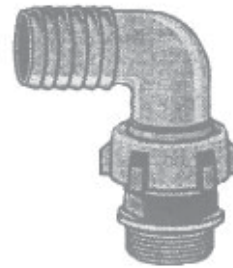


Part No.	Replaces	MNPT	Hose Barb	Cap Part No.	Replaces
75371	626320N	3/4"	3/4"	75395	626012
75372	626325N	3/4"	1"	75396	626014
75373	626420N	1"	3/4"	75395	626012
75374	626425N	1"	1"	75396	626014
75375	626432N	1"	1 1/4"	75396	626014
75376	626525N	1 1/4"	1"	75396	676014
75377	626532N	1 1/4"	1 1/4"	75396	626014
75378	626538N	1 1/4"	1 1/2"	75397	626016
75379	626632N	1 1/2"	1 1/4"	75396	626014
75380	626638N	1 1/2"	1 1/2"	75397	626016
75381	626651N	1 1/2"	2"	75398	626017
75382	626751N	2"	2"	75398	626017


**MNPT X HOSE BARB STRAIGHT**


Simply unscrew the fly nut to disconnect the hose from the pump. The nipple stays in the pump.

Part No.	Replaces	MNPT	Hose Barb	Cap Part No.	Replaces
75383	627320N	3/4"	3/4"	75395	626012
75384	627325N	3/4"	1"	75396	626014
75385	627420N	1"	3/4"	75395	626012
75386	627425N	1"	1"	75396	626014
75387	627432N	1"	1 1/4"	75396	626014
75388	627525N	1 1/4"	1"	75396	626014
75389	627532N	1 1/4"	1 1/4"	75396	626014
75390	627538N	1 1/4"	1 1/2"	75397	626016
75391	627632N	1 1/2"	1 1/4"	75396	626014
75392	627638N	1 1/2"	1 1/2"	75397	626016
75393	627651N	1 1/2"	2"	75398	626017
75394	627751N	2"	2"	75398	626017


**MNPT X HOSE BARB 90°**

**Banjo Manifold**



PART NO.	REPLACES	DESCRIPTION
74064	TM075/050	8 station poly manifold 3/4" in, 1/2" out -, 1/4" gauge port

**Banjo Swivel**



**Features**

- Teflon thrust bearing
- Viton O-Rings
- Heavy duty reinforced polypropylene.
- Hex flats
- SS drive stud
- 75 PSI maximum

PART NO.	REPLACES	DESCRIPTION
73828	SW100	1" female x 1" male swivel
73829	SW150	1 1/2" female x 1 1/2" male swivel
73830	SW200	2" female x 2" male swivel

**Poly Elbow 90°**



PART NO.	REPLACES	DESCRIPTION
75399	HBEL 150/100-90	1 1/2" Hose Barb x 1" Male Thd

## Garden Hose Fittings



1 - 3/4" Male GHT x Hose Barb

REF NO.	DESCRIPTION 3/4" MGHT X HB	PART NO. NYLON	PART NO. BRASS
1	1/4HB	73642	n/a
1	3/8HB	73504	74066
1	1/2HB	73503	74067
1	5/8HB	73502	74068
1	3/4HB	73501	74069
1	1HB	74065	n/a



2 - 3/4" Male GHT x Hose Barb 90°

REF NO.	DESCRIPTION 3/4" MGHT X HB	PART NO. NYLON
2	1/4HB	74070
2	3/8 HB	74071
2	1/2 HB	74072
2	5/8HB	74073
2	3/4HB	74074
2	1HB	74075



3 - Tee Male 3/4" GHT x Hose Barb x Hose Barb

REF NO.	DESCRIPTION 3/4"MGHT X HB X HB	PART NO. NYLON
3	3/8HB	74076
3	1/2HB	74077
3	3/4HB	74078



4 - 3/4" Male GHT x MPT

REF NO.	DESCRIPTION 3/4"MGHT X MPT	PART NO. NYLON	PART NO. BRASS
4	3/8MPT	73480	74079
4	1/2MPT	73481	74080
4	3/4MPT	73482	74081



5 - 3/4" GHT x 3/4" GHT

REF NO.	DESCRIPTION	PART NO. NYLON	PART NO. BRASS
5	3/4MGHT X 3/4MGHT	73639	74082



6 - 3/4" Male GHT x Female Pipe

REF NO.	DESCRIPTION 3/4MGHT X FPT	PART NO. NYLON	PART NO. BRASS
6	1/4FPT	73641	74083
6	3/8FPT	n/a	74084
6	1/2FPT	73476	74085
6	3/4FPT	73477	74086



6A - 3/4" Male GHT x Female Pipe

REF NO.	DESCRIPTION 3/4MGHT X FPT	PART NO. BRASS
6A	1/2FPT	75140



**Garden Hose Fittings**



7 - 3/4" Female GHT x Male Pipe

REF NO.	DESCRIPTION	PART NO. NYLON	PART NO. BRASS
7	1/2MPT	n/a	74362
7	3/4MPT	73479	74087



8 - 3/4" Female GHT x 3/4" Male GHT

REF NO.	DESCRIPTION	PART NO. NYLON
8	FGHT x MGHT	73805



9 - 3/4" Female GHT x 3/4" Female GHT

REF NO.	DESCRIPTION	PART NO. NYLON
9	FGHT x FGHT	73527



10 - 3/4" Female GHT x Female Pipe

REF NO.	DESCRIPTION	PART NO. NYLON	PART NO. BRASS
10	1/4FPT	n/a	74402
10	3/8FPT	n/a	74403
10	1/2FPT	73457	74404
10	3/4FPT	73526	74088



11 - Female GHT x Female GHT Swivel Coupling

REF NO.	DESCRIPTION	PART NO. BRASS
11	FGHT x FGHT	74089



12 - 3/4" Female GHT x 3/4" Male GHT Swivel

REF NO.	DESCRIPTION	PART NO. BRASS
12	FGHT x MGHT	74405



13 - Female GHT x Male Pipe Swivel

REF NO.	DESCRIPTION	PART NO. BRASS
13	1/4MPT	74090
13	3/8MPT	74091
13	1/2MPT	74092



13A - Female GHT x Male Pipe Swivel

REF NO.	DESCRIPTION	PART NO. BRASS
13A	3/8MPT	75596
13A	1/2MPT	70969

## Garden Hose Fitting



14 - Female GHT x Female Pipe Swivel Coupling

REF NO.	DESCRIPTION 3/4"FGHT X FPT	PART NO. BRASS
14	1/2FPT	74093
14	3/4FPT	74094



15 - Female GHT x Hose Barb Swivel

REF NO.	DESCRIPTION 3/4" FGHT X HB	PART NO. BRASS
15	3/8HB	74095
15	1/2HB	74096
15	5/8HB	74097
15	3/4HB	74098



16 - Swivel Nut

REF NO.	DESCRIPTION	PART NO. NYLON	PART NO. BRASS
16	3/4FPT	73516	73640
16	3/4FGHT	73515	n/a



17 - Hose Barb Inserts

REF NO.	DESCRIPTION HB	PART NO. NYLON	DESCRIPTION
17	1/4	73517	To fit item #16
17	1/4	74062	Fits 11/16" nozzle cap
17	3/8	73518	To fit item #16
17	3/8	73523	Fits 11/16" nozzle cap
17	1/2	73519	To fit item #16
17	1/2	73524	Fits 11/16" nozzle cap
17	5/8	73520	To fit item #16
17	3/4	73521	To fit item #16



18 - MPT Inserts

REF NO.	DESCRIPTION MPT	PART NO. NYLON	DESCRIPTION
18	3/8MPT	73542	To fit item #16
18	1/2MPT	79115	To fit item #16



19 - Rubber Washer w/Screen

REF NO.	DESCRIPTION	PART NO.
19	Rubber w/screen 12 mesh	75368
19	Rubber w/screen 30 mesh	73645
19	Rubber w/screen 50 mesh	75369



20 - Rubber Washer

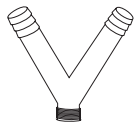
REF NO.	DESCRIPTION	PART NO.
20	Rubber washer	73644



21 - Nylon Washer

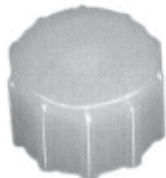
REF NO.	DESCRIPTION	PART NO. NYLON
21	Nylon washer	73626

**Garden Hose Fittings**



**GARDEN HOSE "Y"**

PART NO.	REPLACES	DESCRIPTION
73643	WY1288	3/4" male GHT x 1/2" hose barb, nylon



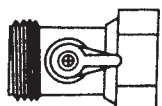
**GARDEN HOSE CAP**

PART NO.	REPLACES	DESCRIPTION
73640	GHC12	3/4" FGHT cap, nylon



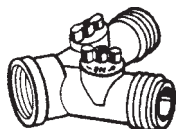
**GARDEN HOSE PLUG**

PART NO.	REPLACES	DESCRIPTION
74099	206-WP	3/4" MGHT plug, brass
75400	GHP12	3/4" MGHT Plug Nylon



**GARDEN HOSE THREAD BALL VALVE**

PART NO.	REPLACES	DESCRIPTION
74682	LA3	3/4" GHT ball valve
76810	LA23	"Y" connector with dual shut-off - converts one faucet to two with separately controllable outlets, plastic



**GARDEN HOSE QUICK COUPLER**

PART NO.	REPLACES	DESCRIPTION
HYD 1163	73800	Brass GHT (3/4") quick coupler
SPP 75138	73801	Male brass end only for above
SPP 75139	73802	Female brass end only for above
HYD 4730001	73803	Gasket only for above



**MOWER DECK WASHER ASSEMBLY**

PART NO.	DESCRIPTION
78411	Mower Deck Washer Assembly

**O-RINGS FOR FEMALE COUPLERS**

PART NO.	DESCRIPTION
74228	1/4" O-Ring
74229	3/8" O-Ring
74232	1/2" O-Ring

**MALE SOCKET**



1/4" NPT  
3/8" NPT  
1/2" NPT

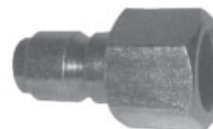
74226  
74227  
74591

**FEMALE SOCKET**



78118  
78119  
78120

**FEMALE PLUG**



78121  
78122  
78123

**MALE PLUG**



78124  
78125  
78126

## Cam Lever Couplings


**1 - Male Adapter x Female Thread**

REF NO.	DESCRIPTION MALE ADAPTER X FPT	BANJO PART NO. POLYPROPYLENE	BANJO REPLACES NO.	PART NO. ALUMINUM	PART NO. POLY IMPORT	BANJO PART NO. STAINLESS STEEL
1	1/2"	73788	75A1/2			
1	3/4"	73700	075A	74100	75452	75515
1	1"	73701	100A	74101	75453	75523
1	1" male adapter 1 1/4" female thread	73702	125A	74102	75454	n/a
1	1 1/2" male adapter 1 1/4" female thread	73779	150-125A	n/a	n/a	n/a
1	1 1/2"	73703	150A	74103	75455	75531
1	2"	73704	200A	74104	75456	75539
1	3"	73705	300A	74105	75457	75547
1	4"	73718	400A	74106	75458	75555

REF NO.	DESCRIPTION FEMALE COUPLER X MPT	BANJO PART NO. POLYPROPYLENE	BANJO REPLACES NO.	PART NO. ALUMINUM	PART NO. POLY IMPORT	BANJO PART NO. STAINLESS STEEL
2	1/2"	73786	75B1/2			
2	3/4"	73726	075B	74107	75459	75516
2	1"	73727	100B	74108	75460	75524
2	1" female coupler 1 1/4" male thread	73728	125B	74109	75461	n/a
2	1 1/2" female coupler 1 1/4" male thread	73780	150-125-B	n/a	n/a	n/a
2	1 1/2"	73729	150B	74110	75462	75532
2	2"	73730	200B	74111	75463	75540
2	3"	73731	300B	74112	75464	75548
2	4"	73719	400B	74113	75465	75556


**2 - Female Coupler x Male Thread**

**3 - Female Coupler x Hose Barb**

REF NO.	DESCRIPTION FEMALE COUPLER X HB	BANJO PART NO. POLYPROPYLENE	BANJO REPLACES NO.	PART NO. ALUMINUM	PART NO. POLY IMPORT	BANJO PART NO. STAINLESS STEEL
3	1/2"	75256	050C			
3	3/4"	73732	075C	74114	75466	75517
3	1"	73733	100C	74115	75467	75525
3	1" female coupler 1 1/4" hose shank	73734	125C	74116	75468	n/a
3	1 1/2" female coupler 1 1/4" hose shank	73781	150-125-C	n/a	n/a	n/a
3	1 1/2"	73735	150C	74117	75469	75533
3	2"	73736	200C	74118	75470	75541
3	3"	73737	300C	74119	75471	75549
3	3" w 3/arms	74128	303C	n/a	n/a	n/a
3	4"	73738	400C	74120	75472	75557

REF NO.	DESCRIPTION FEMALE COUPLER X FPT	BANJO PART NO. POLYPROPYLENE	BANJO REPLACES NO.	PART NO. ALUMINUM	PART NO. POLY IMPORT	BANJO PART NO. STAINLESS STEEL
4	1/2"	75257	050D			
4	3/8"	75513	075D <sup>3/8</sup>	n/a	n/a	n/a
4	3/4"	73720	075D	74121	75473	75518
4	1"	73721	100D	74122	75474	75526
4	1" coupler 1 1/4" female thread	73722	125D	74123	75475	n/a
4	1 1/2" coupler 1 1/4" female thread	73782	150-125-D	n/a	n/a	n/a
4	1 1/2"	73723	150D	74124	75476	75534
4	2"	73724	200D	74125	75477	75542
4	3"	73725	300D	74126	75478	75550
4	4"	73739	400D	74127	75479	75558


**4 - Female Coupler x Female Thread**

Note: 1 1/2" x 1 1/4" couplings interchange with 1 1/2" size couplings.

Couplings and adapter ends are 1 1/2" size. Only the threads and barbs are 1 1/4".

Note: Banjo 1 1/4" couplers and adapters will interchange with 1" couplings. Only the threads and barbs are 1 1/4".

**NOTE: ALL 4" BANJO COUPLERS COME WITH 3 ARMS (73719, 73738, 73739)**

**Cam Lever Couplings**



**5 - Male Adapter x Hose Barb**

REF NO.	DESCRIPTION MALE ADAPTER X HB	BANJO PART NO. POLYPROPYLENE	BANJO REPLACES NO.	PART NO. ALUMINUM	PART NO. POLY IMPORT	BANJO PART NO. STAINLESS STEEL
5	1/2"	75258	050E			
5	3/4"	73712	075E	74129	75480	75519
5	1"	73713	100E	74130	75481	75527
5	1" male adapter 1 1/4" hose barb	73714	125E	74131	75482	n/a
5	1 1/2" male adapter 1 1/4" hose barb	73783	150-125-E	n/a	n/a	n/a
5	1 1/2"	73715	150E	74132	75483	75535
5	2"	73716	200E	74133	75484	75543
5	3"	73717	300E	74134	75485	75551
5	4"	73752	400E	74135	75486	75559

REF NO.	DESCRIPTION MALE ADAPTER X MPT	BANJO PART NO. POLYPROPYLENE	BANJO REPLACES NO.	PART NO. ALUMINUM	PART NO. POLY IMPORT	BANJO PART NO. STAINLESS STEEL
6	1/2"	75259	050F			
6	3/4"	73706	075F	74136	75492	75520
6	1"	73707	100F	74137	75493	75528
6	1" male adapter 1 1/4" male thread	73708	125F	74138	75494	n/a
6	1 1/2" male adapter 1 1/4" male thread	73784	150-125-F	n/a	n/a	n/a
6	1 1/2"	73709	150F	74139	75495	75536
6	2"	73710	200F	74140	75496	75544
6	3"	73711	300F	74141	75497	75552
6	4"	73753	400F	74142	75498	75560



**6 - Male Adapter x Male Thread**



**7 - Plug for Female Coupler**

REF NO.	DESCRIPTION PLUG	BANJO PART NO. POLYPROPYLENE	BANJO REPLACES NO.	PART NO. ALUMINUM	PART NO. POLY IMPORT	BANJO PART NO. STAINLESS STEEL
7	1/2" & 3/4"	73740	075PL	74143	75499	75521
7	1"	73742	100125PL	74144	75500	75529
7	1" & 1 1/4"	73742	100125PL	74145	75501	n/a
7	1 1/4" & 1 1/2"	73743	150PL	n/a	n/a	n/a
7	1 1/2"	73743	150PL	74146	75502	75537
7	2"	73744	200PL	74147	75503	75545
7	3"	73745	300PL	74148	75504	75553
7	4"	73754	400PL	74149	75505	75561

REF NO.	DESCRIPTION CAP	BANJO PART NO. POLYPROPYLENE	BANJO REPLACES NO.	PART NO. ALUMINUM	PART NO. POLY IMPORT	BANJO PART NO. STAINLESS STEEL
8	1/2" & 3/4"	73746	075CAP	74150	75506	75522
8	1"	73747	100125CAP	74151	75507	75530
8	1" & 1 1/4"	73747	100125CAP	74152	75508	n/a
8	1 1/4" & 1 1/2"	73749	150CAP	n/a	n/a	n/a
8	1 1/2"	73749	150CAP	74153	75509	75538
8	2"	73750	200CAP	74154	75510	75546
8	2" SH	75514	200CAPSH (short arms)	n/a	n/a	n/a
8	3"	73751	300CAP	74155	75511	75554
8	4"	73764	400CAP	74156	75512	75562



**8 - Cap for Male Adapter**

Note: 1 1/2" x 1 1/4" couplings interchange with 1 1/2" size couplings.

Couplings and adapter ends are 1 1/2" size. Only the threads and barbs are 1 1/4".

Note: Banjo 1 1/4" couplers and adapters will interchange with 1" couplings. Only the threads and barbs are 1 1/4".

## Banjo Coupling Replacement Parts

PART NO.	REPLACES	DESCRIPTION
73755	75G	3/4" gasket (EPDM) (fits 1/2" and 3/4")
73756	100125G	1" gasket (EPDM) (fits 1" and 1 1/4")
73757	150G	1 1/2" gasket (EPDM)
73758	200G	2" gasket (EPDM)
73759	300G	3" gasket (EPDM)
73765	400G	4" gasket (EPDM)
74184	75GB	3/4" gasket (Buna) (fits 1/2" and 3/4")
74185	100GB	1" gasket (Buna) (fits 1" and 1 1/4")
74186	150GB	1 1/2" gasket (Buna)
74187	200GB	2" gasket (Buna)
74188	300GB	3" gasket (Buna)
74189	75GV	3/4" gasket (Viton) (fits 1/2" and 3/4")
74190	100GV	1" gasket (Viton) (fits 1" and 1 1/4")
76395	150GV	1 1/2" gasket (Viton)
76396	200GV	2" gasket (Viton)
76397	300GV	3" gasket (Viton)
74197	400GV	4" gasket (Viton)
73760	75K	Cam arm ss w/ring (fits 1/2" and 3/4")
73761	100K	Cam arm ss w/ring (fits 1" and 1 1/4")
73762	150(200)K	Cam arm ss w/ring (fits 1 1/2" and 2")
73763	300K	Cam arm ss w/ring 3" & 4"
74191	75P	Cam pin stainless (fits 1/2" and 3/4")
74192	100P	Cam pin stainless (fits 1" and 1 1/4")
74193	200P	Cam pin stainless 1 1/2" & 2"
74194	300P	Cam pin stainless (fits 3" and 4")
74195	100 ring	Ring - stainless (fits 1/2", 1" and 1 1/4")
74196	150 ring	Ring - stainless (fits 1 1/2", 2" and 3")
74168	V20207	11" polyurethane rubber lanyard



## Garden Hose Fittings

### Features

- Quick and simple way to connect and disconnect your gardenhose.
- Easily connects hose to spigot, sprinkler, nozzle or other hose end accessories.
- Durable, rustproof polypropylene construction.
- Never have to use pliers to tighten to prevent leaks.
- Yellow fiberglass reinforced polypropylene.
- Standard 3/4" opening diameter.

PART NO.	DESCRIPTION	
GHFT075A	3/4" Adapter x 3/4" Garden Hose Female Thread	A
GHMT075B	3/4" Coupler x 3/4" Garden Hose Male Thread	B
GHMT075FPT	3/4" Female NPT x 3/4" Garden Hose Male Thread	C
GHFT075D	3/4" Coupler x 3/4" Garden Hose Female Thread	D
GHFT075MPT	3/4" Male NPT x 3/4" Garden Hose Female Thread	E
GHMT075F	3/4" Adapter x 3/4" Garden Hose Male Thread	F



**Banjo Locking Cam Lever Poly Couplings**



**1 1/2" LOCKING COUPLINGS**

PART NO.	REPLACES	DESCRIPTION
74157	L150B	Female coupler - male thread
74158	L150C	Female coupler - hose shank
74159	L150D	Female coupler - female thread
74160	L150CAP	Cap for male adapter

**Warning:**

Locking cam arm lever is not intended to be used as a security device or to prevent unauthorized opening of coupling assembly.



**2" LOCKING COUPLINGS**

PART NO.	REPLACES	DESCRIPTION
74161	L200B	Female coupler - male thread
74162	L200C	Female coupler - hose shank
74163	L200D	Female coupler - female thread
74164	L200CAP	Cap for male adapter



PART NO.	REPLACES	DESCRIPTION
74165	200KL	Locking Cam Arm w/ring (fits 1 1/2" & 2" coupling)
74166	200PKL	Coupling pin fits 1 1/2" & 2" couplings

*Note: Fits 1 1/2" & 2" poly couplings only*

**Poly Lanyard**

**Features**

- Strong and durable
- Corrosion resistant



**2" female coupler x 1 1/2" hose shank**

PART NO.	REPLACES	DESCRIPTION
74168	V20207	11" polyurethane rubber lanyard

PART NO.	REPLACES	DESCRIPTION
74167	200150C	2" female quick connect x 1 1/2" hose shank

## Banjo Polypropylene 90° Couplings

### Features

- Precision molded in polypropylene, reinforced with fiberglass for strength and durability.
- Cam levers and pins are made of quality type 304 stainless steel
- Banjo 90° angle couplings and adapters will reduce the number of elbows and other pipe fittings used in plumbing applications
- As with all Banjo couplings, these angle couplers will interchange with standard cam lever couplings of all types

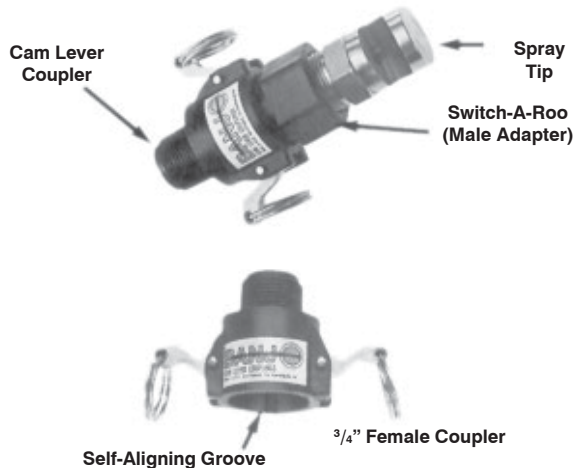
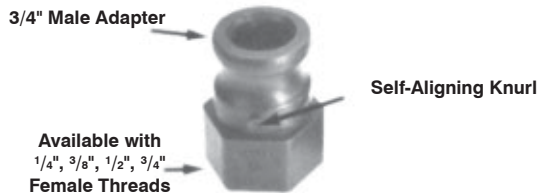
REF	PART NO.	REPLACES	DESCRIPTION
1	73771	150A-90	90° male adapter 1 1/2" female thread
2	73772	150C-90	90° female coupler 1 1/2" hose shank
3	73773	150D-90	90° female coupler 1 1/2" female thread
4	73774	150F-90	90° male adapter 1 1/2" male thread
1	73775	200A-90	90° male adapter 2" female thread
2	73776	200C-90	90° female coupler 2" hose shank
3	73777	200D-90	90° female coupler 2" female thread
4	73778	200F-90	90° male adapter 2" male thread



## Banjo Polypropylene Switch-A-Roos

### Features

- The Switch-A-Roo is a fast, convenient method of changing spray nozzles on fertilizer application equipment
- Precision molded in polypropylene (fiberglass reinforced) for high strength and toughness.
- The female coupling is available in either 1/2" or 3/4" pipe thread and normally mounted on the spray boom
- The male adapter is available in four different thread sizes 1/4", 3/8", 1/2" and 3/4" to fit all size spray nozzles
- Switch-A-Roo's available with self-aligning grooves.



PART NO.	REPLACES	DESCRIPTION
73726	75-B3/4"	Female coupler 3/4" male thread
73786	75-B1/2"	Female coupler 1/2" male thread
73700	75-A3/4"	Male adapter 3/4" female thread
73788	75-A1/2"	Male adapter 1/2" female thread
73789	75-A3/8"	Male adapter 3/8" female thread
73790	75-A1/4"	Male adapter 3/4" with self-aligning groove
73791	75-A3/4" SA	Male adapter 3/4" with self-aligning groove
73792	75-A1/2" SA	Male adapter 1/2" with self-aligning groove
73793	75-A3/8" SA	Male adapter 3/8" with self-aligning groove
73794	75-A1/4" SA	Male adapter 1/4" with self-aligning groove



**Banjo Polypropylene Class 150 ANSI Flanges**

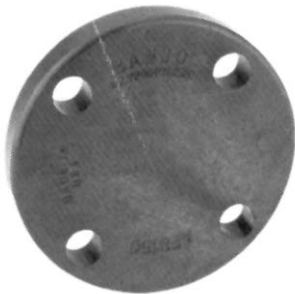
**Features**

- 150 PSI maximum
- Glass reinforced polypropylene
- Heavy duty



**THREADED FLANGES**

PART NO.	REPLACES	DESCRIPTION	PIPE SIZE
74169	AF100	1" female NPT threaded flange	1"
73835	AF150	1½" female NPT threaded flange	1½"
73836	AF200	2" female NPT threaded flange	2"
73837	AF300	3" female NPT threaded flange	3"
74170	AF400	4" female NPT threaded flange	4"



**BLIND FLANGES**

PART NO.	REPLACES	DESCRIPTION	SIZE
74171	AFB100	1" blind flange	1"
74172	AFB150	1½" blind flange	1½"
74173	AFB200	2" blind flange	2"
74174	AFB300	3" blind flange	3"
74175	AFB400	4" blind flange	4"

**ANSI FLANGE GASKETS**

EPDM PART NO.	EPDM REPLACES	VITON PART NO.	VITON REPLACES	DESCRIPTION
74176	AF100G	74180	AF100GV	1" ANSI flange gasket
74177	AF150G	74181	AF150GV	1½" ANSI flange gasket
77067	AF200G	77068	AF200GV	2" ANSI flange gasket
74178	AF300G	74182	AF300GV	3" ANSI flange gasket
74179	AF400G	74183	AF400GV	4" ANSI flange gasket

## MANIFOLD FITTINGS



## FEATURES

- Positive seals.
- Quick & easy assembly.
- Easy on/off hose connections, 360° orientation.
- 1" and 2" fittings pressure to 150 PSI at 70°F.
- 3" fittings pressure to 125 PSI at 70°F.

## FLANGED COUPLINGS



PART NO.	REPLACES	DESCRIPTION
SPP 76175	M100CPG	1" x 1" Flange
SPP 77746	M200CPG	2" x 2" Flange
SPP 76176	M220CPG	2" X 2" Full Port Flange
M220CPG6	M220CPG6	2" x 2" Full Port Flange x 6" Long
SPP 77747	M300CPG	3" x 3" Full Port Flange x 4" Long
M300CPG7	M300CPG7	3' x 3" Full Port Flange x 7" Long

## 45° FLANGED COUPLINGS



PART NO.	REPLACES	DESCRIPTION
SPP 77778	M100CPG45	1" x 1" 45° Flange
SPP 77779	M200CPG45	2" x 2" 45° Flange
SPP 77780	M220CPG45	2" x 2" 45° Full Port Flange
SPP 77781	M300CPG45	3" x 3" 45° Full Port Flange

## 90° FLANGED COUPLINGS



PART NO.	REPLACES	DESCRIPTION
SPP 76177	M100CPG90	1" x 1" 90° Flange
SPP 77752	M200CPG90	2" x 2" 90° Flange
SPP 77753	M200CPG90SH	2" x 2" 90° Full Port Flange
SPP 76178	M220CPG90	2" x 2" 90° Full Port Flange
SPP 76179	M300CPG90	3" x 3" 90° Full Port Flange

## FLANGED REDUCER COUPLINGS



PART NO.	REPLACES	DESCRIPTION
SPP 76180	M200100CPG	2" Port x 1" Reducer Flange
SPP 77760	M220200CPG	2" Full Port x 2" Reducer Flange
SPP 77761	M300200CPG	3" x 2" Port Reducer Flange
SPP 76181	M300220CPG	3" x 2" Full Port Reducer Flange

## FLANGED TEE



PART NO.	REPLACES	DESCRIPTION
SPP 76182	M100TEE	1" Flanged Tee
SPP 76183	M101TEE	1" Flanged Tee - Long
SPP 77769	M200100TEE	2" Port x 1" Flanged Tee
SPP 77770	M200TEE	2" Port Flanged Tee
M200100TEEB	M200100TEEB	2" x 1" Port Flanged Tee w/Mntg Bracket
SPP 77771	M220100TEE	2" Full Port Flanged Tee x 1" Flanged Tee
SPP 76184	M220TEE	2" Full Port Flanged Tee
SPP 76185	M300TEE	3" Flanged Tee

## FLANGED POLY CHECK VALVES



PART NO.	REPLACES	DESCRIPTION
MCV100	MCV100	1" Flanged Poly Check Valve
MCV200	MCV200	2" Flanged Poly Check Valve
MCV220	MCV220	2" Full Port Flanged Poly Check Valve

## 45° Y FLANGED COUPLINGS



PART NO.	REPLACES	DESCRIPTION
M220Y45	M220Y45	2" Full Port 45° Y Flange
M220YG45	M220YG45	2" Full Port 45° Y Flange w/3/4" Gauge Port*
M300Y45	M300Y45	3" Full Port 45° Y Flange
M300YG45	M300YG45	3" Full Port 45° Y Flange w/3/4" Gauge Port*

Note: \*Gauge not included.

## FLANGE x MALE BSP (British Standard Pipe)



PART NO.	REPLACES	DESCRIPTION
M100BSP	M100BSP	1" Manifold Flange x 1" Male BSP
M200BSP	M200BSP	2" Manifold Flange x 2" Male BSP
M220BSP	M220BSP	2" Full Port Manifold Flange x 2" Male BSP
M300BSP	M300BSP	3" Full Port Manifold flange x 3" Male BSP

## FLANGE x FEMALE NPT THREAD



PART NO.	REPLACES	DESCRIPTION
M100050FPT	M100050FPT	1" Flange x 1/2" Pipe Thread
SPP 77749	M100075FPT	1" Flange x 3/4" Pipe Thread
SPP 76186	M100FPT	1" Flange x 1" Pipe Thread
SPP 76187	M200FPT	2" Flange x 2" Pipe Thread
SPP 77750	M220FPT	2" Full Port Flange x 2" Pipe Thread
SPP 77751	M300FPT	3" Flange x 3" Pipe Thread

## FLANGE x NPT THREAD



PART NO.	REPLACES	DESCRIPTION
SPP 77754	M100075MPT	1" Flange x 3/4" Male Thread
SPP 76207	M100MPT	1" Flange x 1" Male Thread
SPP 76208	M100125MPT	1" Flange x 1 1/4" Male Thread
SPP 76209	M200125MPT	2" Flange x 1 1/4" Male Thread
SPP 79294	M200150MPT	2" Flange x 1 1/2" Male Thread
SPP 77755	M200MPT	2" Flange x 2" Male Thread
SPP 76222	M220MPT	2" Full Port Flange 2" Male Thread
SPP 76223	M300MPT	3" Flange x 3" Male Thread

**MANIFOLD FITTINGS (continued)**



**FEATURES**

- Positive seals.
- Quick & easy assembly.
- Easy on/off hose connections, 360° orientation.
- 1" and 2" fittings pressure to 150 PSI at 70°F.
- 3" fittings pressure to 125 PSI at 70°F.



**U BOLTS-SS**

PART NO.	REPLACES	DESCRIPTION
SPP 76398	UB100	100 Series Mounting U Bolt
SPP 76399	UB202	200 Series Mounting U Bolt
UB220	UB220	220 Series Mounting U Bolt

**FLANGE PLUGS (Solid & w/Gauge Port)**

PART NO.	REPLACES	DESCRIPTION
SPP 76337	M100PLG	1" Flange Plug
SPP 77765	M200PLG	2" Flange Plug
SPP 79293	M220PLG	2" Full Port Flange Plug
SPP 76339	M300PLG	3" Flange Plug
SPP 76359	M100PLG025	1" Flange Plug with 1/4" FPT
SPP 76371	M200PLG018	2" Flange Plug with 1/8" FPT
SPP 76372	M200PLG025	2" Flange Plug with 1/4" FPT
SPP 76373	M200PLG038	2" Flange Plug with 3/8" FPT
SPP 76374	M200PLG050	2" Flange Plug with 1/2" FPT
SPP 76375	M200PLG075	2" Flange Plug with 3/4" FPT
SPP 76376	M200PLG100	2" Flange Plug with 1" FPT
SPP 77766	M220PLG075	2" Full Port Flange Plug with 3/4" FPT
SPP 77767	M300PLG075	3" Flange Plug with 3/4" FPT
M300PLG100	M300PLG100	3" Flange Plug with 1" FPT

**FLANGE x FEMALE QDC**

PART NO.	REPLACES	DESCRIPTION
M220D	M220D	2" Full Port Flange x 2" Female Coupler

**FLANGE x MALE QDC**

PART NO.	REPLACES	DESCRIPTION
SPP 77756	M100A	1" Flange x 1" Male Adapter
SPP 76091	M200A	2" Flange x 2" Male Adapter
SPP 76188	M220A	2" Full Port Flange x 2" Male Adapter
SPP 77758	M300A	3" Full Port Flange x 3" Male Adapter

**FLANGE x HOSE BARB**

PART NO.	REPLACES	DESCRIPTION
SPP 76197	M100075BRB	1" Flange x 3/4" Hose Barb
SPP 76198	M100BRB	1" Flange x 1" Hose Barb
SPP 76199	M100125BRB	1" Flange x 1 1/4" Hose Barb
SPP 76201	M200100BRB	2" Flange x 1" Hose Barb
SPP 76202	M200125BRB	2" Flange x 1 1/4" Hose Barb
SPP 77818	M200150BRB	2" Flange x 1 1/2" Hose Barb
SPP 77773	M200BRB	2" Flange x 2" Hose Barb
M220125BRB	M220125BRB	2" Full Port Flange x 1 1/4" Hose Barb
SPP 76203	M220150BRB	2" Full Port Flange x 1 1/2" Hose Barb
SPP 76204	M220BRB	2" Full Port Flange x 2" Hose Barb
SPP 76205	M300220BRB	3" Flange x 2" Hose Barb
SPP 76206	M300BRB	3" Flange x 3" Hose Barb

**FLANGE x 90° HOSE BARB ELBOW**

PART NO.	REPLACES	DESCRIPTION
SPP 76189	M100075BRB90	1" Flange x 3/4" 90° Hose Barb Elbow
SPP 76190	M100BRB90	1" Flange x 1" 90° Hose Barb Elbow
SPP 76191	M100125BRB90	1" Flange x 1 1/4" 90° Hose Barb Elbow
M100150BRB90	M100150BRB90	1" Flange x 1 1/2" 90° Hose Barb Elbow
SPP 76192	M200100BRB90	2" Flange x 1" 90° Hose Barb Elbow
SPP 76193	M200125BRB90	2" Flange x 1 1/4" 90° Hose Barb Elbow
SPP 77762	M200150BRB90	2" Flange x 1 1/2" 90° Hose Barb Elbow
SPP 77763	M200BRB90	2" Flange x 2" 90° Hose Barb Elbow
SPP 76194	M220150BRB90	2" Full Port Flange x 1 1/2" 90° Hose Barb Elbow
SPP 76195	M220BRB90	2" Full Port Flange x 2" 90° Hose Barb Elbow
SPP 77764	M300220BRB90	3" Flange x 2" 90° Hose Barb Elbow
SPP 76196	M300BRB90	3" Flange x 3" 90° Hose Barb Elbow

## MANIFOLD FITTINGS (continued)



## FLANGE X 45° HOSE BARB ELBOW



PART NO.	REPLACES	DESCRIPTION
M100BRB45	M100BRB45	1" Flange x 1" 45° Hose Barb Elbow
M200BRB45	M200BRB45	2" Flange x 2" 45° Hose Barb Elbow
M220BRB45	M220BRB45	2" Full Port Flange x 2" 45° Hose Barb Elbow
M300BRB45	M300BRB45	3" Flange x 3" 45° Hose Barb Elbow

## FLANGE X HOSE BARB TEE



PART NO.	REPLACES	DESCRIPTION
M100100HBT	M100100HBT	1" Flange x 1" Hose Barb Tee
M100125HBT	M100125HBT	1" Flange x 1 1/4" Hose Barb Tee

## FLANGE MALE NPT THREAD - 316SS



PART NO.	REPLACES	DESCRIPTION
SPP 76224	M100MPTSS	1" Flange x 1" Male Thread
SPP 76237	M200125MPTSS	2" Flange x 1 1/4" Male Thread
SPP 76238	M200150MPTSS	2" Flange x 1 1/2" Male Thread
SPP 76239	M200MPTSS	2" Flange x 2" Male Thread
SPP 77759	M220150MPTSS	2" Full Port Flange x 1 1/2" Male Thread
SPP 76248	M220MPTSS	2" Full Port Flange x 2" Male Thread
M300220MPTSS	M300220MPTSS	3" Flange x 2" Full Port Male Thread
SPP 76309	M300MPTSS	3" Flange x 3" Male Thread

## FLANGED CROSS



PART NO.	REPLACES	DESCRIPTION
SPP 76377	M100CR	1" Flanged Cross
SPP 77774	M200CR	2" Flanged Cross
SPP 76378	M220CR	2" Full Port Flanged Cross
M220CRSS	M220CRSS	2" Full Port SS Flanged Cross
SPP 76379	M300CR	3" Flanged Cross

## FLANGE x SOCKET WELD - 316SS



PART NO.	REPLACES	DESCRIPTION
M100SWFSS	M100SWFSS	1" Flange x 1" Socket Weld Fitting
M104SWFSS	M104SWFSS	1" Flange x 1" Socket Weld Fitting x 4"
M200SWFSS	M200SWFSS	2" Flange x 2" Socket Weld Fitting
M220SWFSS	M220SWFSS	2" Full Port Flange x 2" Socket Weld Fitting
M220375SWFSS	M220375SWFSS	2" Full Port Flange x 2" Socket Weld Fitting x 3 3/4"
M300SWFSS	M300SWFSS	3" Flange x 3" Socket Weld Fitting
M300375SWFSS	M300375SWFSS	3" Flange x 3" Socket Weld Fitting x 3 3/4"

## FLANGE X PVC GLUE SOCKET FITTING



PART NO.	REPLACES	DESCRIPTION
M101GSA	M101GSA	1" Manifold Flange x 1" PVC Glue Socket Fitting
M221GSA	M221GSA	2" Manifold Full Port Flange x 2" PVC Glue Socket Fitting
M301GSA	M301GSA	3" Manifold Full Port Flange x 3" PVC Glue Socket Fitting

## FLANGE CLAMPS



PART NO.	REPLACES	DESCRIPTION
SPP 76391	FC100	100 Series Worm Screw Clamp
SPP 76392	FC200	200 Series Work Screw Clamp
FC201HD	FC201HD	2" Heavy Duty Flange Clamp
SPP 79292	FC220	220 Series Worm Screw Clamp
FC221HD	FC221HD	2" Full Port Heavy Duty Flange Clamp
SPP 76393	FC300	300 Series Worm Screw Clamp
FC301HD	FC301HD	3" Heavy Duty Flange Clamp

RIB

## FLANGE GASKETS



PART NO.	REPLACES	DESCRIPTION
M101G	M101G	1" EPDM Manifold Gasket with Rib
SPP 76394	M100GV	100 Series FKM (viton type) Gasket
M201G	M201G	2" EPDM Manifold Gasket with Rib
SPP 76395	150GV	200 Series FKM (viton type) Gasket
M221G	M221G	2" Full Port EPDM Manifold Gasket with Rib
200GV	200GV	220 Series Full Port FKM (viton type) Gasket
SPP 76396	M301G	3" EPDM Manifold Gasket with Rib
SPP 76397	300GV	300 Series FKM (viton type) Gasket

**I N D E X**

**ADJUSTABLE TIPS**

..... 6-6

**ACCESSORIES FOR HANDGUNS**

..... 6-11

**COUPLERS**

..... 6-13

**FIRE HOSE NOZZLE**

..... 6-11

**HANDGUNS**

..... 6-11, 6-12, 6-14

**HANDGUN ACCESSORIES**

..... 6-11

**HANDGUNS (COMPLETE WITH LANCES)**

Hamilton ..... 6-4

Hypro Lurmark ..... 6-3

Lurmark ..... 6-3

Spraying Systems ..... 6-1 to 6-3, 6-5 to 6-8

**HANDGUN KITS**

..... 6-10

**HIGH PRESSURE WANDS**

..... 6-8, 6-11

**LANCES**

..... 6-8, 6-12

**QUICK COUPLERS**

..... 6-13

**SHUT OFF VALVES**

..... 6-7

**TELESCOPING HANDWAND**

..... 6-9

**TIPS**

1/8 Female Thread ..... 6-9

1/4 Female Thread ..... 6-13

1/4 Male Thread ..... 6-13

**VALVES**

..... 6-7

**WANDS (LANCES)**

..... 6-8, 6-12

**WESTWARD PARTS HANDGUN KITS**

..... 6-10

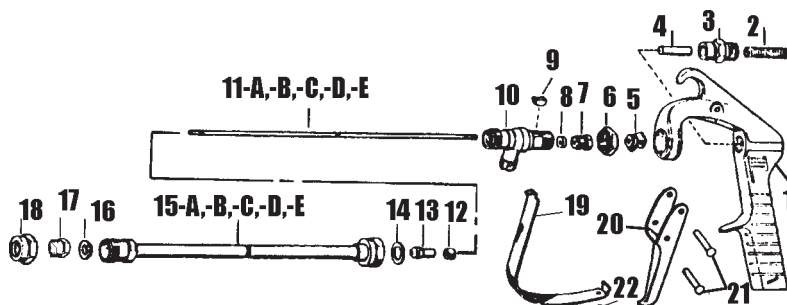
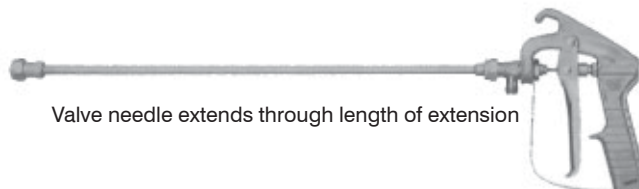
**Spray Gun**

**SPRAYING SYSTEMS NO. AA23L TRIGGER HAND GUN**

- **Maximum Pressure 250 PSI**
- **Shut-off seat at spray tip end**

Note: Gun does not include adjustable tip as shown in picture. Order tip separately on page 6-6

PART NO.	REPLACES	DESCRIPTION
77589	AA23L	Gunjet only
74000	AA23L-7676-8"	Gunjet w/8" extension
74001	AA23L-7676-18"	Gunjet w/18" extension
74002	AA23L-7676-24"	Gunjet w/24" extension
74003	AA23L-7676-36"	Gunjet w/36" extension
74004	AA23L-7676-48"	Gunjet w/48" extension



REF	PART NO.	REPLACES	DESCRIPTION
1	74300	CP16054-1-AL	Body, aluminum
2	See kit*		Spring, 302 stainless steel
3	74301	CP7480-1ZP	Spring screw
4	74302	CP7491-ALEF	Spring stud
5	74303	CP8591-1ZP	Trigger guide
6	74304	CP7486-1ZP	Locknut, steel zinc plated
7	74305	CP16071-NP	Packing screw
8	See kit*		Cup backing, Buna-N
9	74306	CP7892-1ZP	Key
10	74307	CP16052-NP	Inlet body, brass nickel plated
11A	74308	CP7677-8-SS	Stem, stainless steel (for 8" extension)
11B	74309	CP7677-18-SS	Stem, stainless steel (for 18" extension)
11C	74310	CP7677-24-SS	Stem, stainless steel (for 24" extension)
11D	74311	CP7677-36-SS	Stem, stainless steel (for 36" extension)
11E	74312	CP7677-48-SS	Stem, stainless steel (for 48" extension)
12	74313	CP7679-1	Stem guide nut, brass
13	See kit*		Stem end, brass
14	74314	CP4743-TEF	Gasket, teflon
15A	74315 74320	7715-8 13206-8	Extension, brass (for 8" length) Extension assembly, brass (incl. items 11A, 12, 13, 14 & 15A) for 8" length

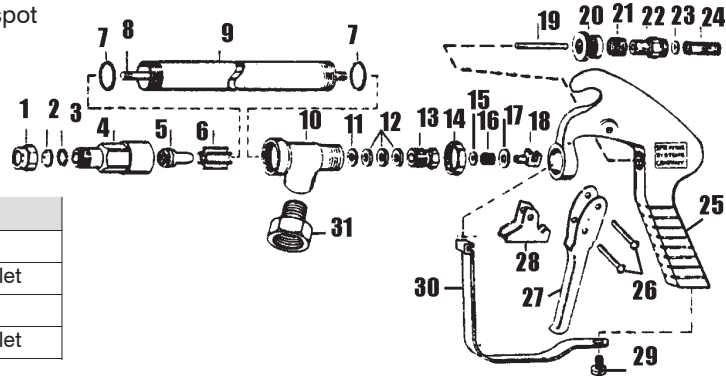
REF	PART NO.	REPLACES	DESCRIPTION
15B	74316 74321	7715-18 13206-18	Extension, brass (for 18" length) Extension assembly, brass (incl. items 11B, 12, 13, 14 & 15B) for 18" length
15C	74317 74322	7715-24 13206-24	Extension, brass (for 24" length) Extension assembly, brass (incl. items 11C, 12, 13, 14 & 15C) for 24" length
15D	74318 74323	7715-36 13206-36	Extension, brass (for 36" length) Extension assembly, brass (incl. items 11D, 12, 13, 14 & 15D) for 36" length
15E	74319 74324	7715-48 13206-48	Extension, brass (for 48" length) Extension assembly, brass (incl. items 11E, 12, 13, 14 & 15E) for 48" length
16	See Kit*		Valve seat, teflon
17			Spray tip (specify type & capacity)
18	72210	CP1325-NP	Cap, brass - nickel plated
19	74327	CP9539-INP	Trigger guard
20	74328	CP14252-INP	Trigger, steel - nickel plated
21	74329	CP8038-IZP	Rivet (2 required)
22	74330	CP9697-INP	Pan head screw
*	74200	AB23-L-7676	Spare parts kit (items marked *)

## Spray Gun

### SPRAYING SYSTEMS NO. AA43H TRIGGER HAND GUN

- Operating Pressure 200 to 800 PSI
- Available in brass or aluminum

Trigger handle control . . . 1/2" NPT female inlet connection  
 . . . for livestock, orchard and nursery spraying . . . field spot  
 spraying and cleaning of barns and equipment.



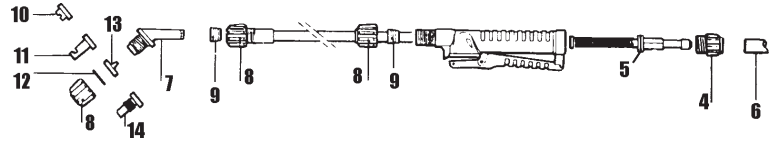
PART NO.	REPLACES	DESCRIPTION
74005	AA43H	23" brass gun, 1/2" NPT inlet
74006	AA43H-AL	23" aluminum gun, 1/2" NPT inlet
74007	AA43HA	14" brass gun, 1/2" NPT inlet
74008	AA43HA-AL	14" aluminum gun, 1/2" NPT inlet

REF	PART NO.	REPLACES	DESCRIPTION	BRASS GUN QTY.	ALUMINUM GUN QTY.
1	72210	CP1325	Cap	1	
1	74332	CP1325-AL	Cap		1
2	72834	D4	Orifice disc, stainless	1	1
3	See kit *		Gasket, nylon	1	1
4	74333	CP10566	Nozzle housing	1	
4	74334	CP10566-AL	Nozzle housing		1
5	See kit*		Seat plug assy.	1	1
6	74335	CP10571	Guide vane	1	
6	74336	CP10571-AL	Guide vane		1
7	74337	CP6943-AL	Gasket, aluminum (2 required)	1	1
8	74338	CP19238-416SS	Stem, stainless steel	1	1
9	74339	CP6604	Tubing	1	
9	74340	CP6604-AL	Tubing		1
10	74429	CP6492	Inlet body, brass	1	
10	74341	CP6492-AL	Inlet body, aluminum		1
11	See kit*		Packing washer, stainless	1	1
12	See kit*		Packing, leather (3 required)	1	1
13	74342	CP19237	Packing screw	1	
13	74343	CP19237-AL	Packing screw		1
14	74344	CP6599	Locknut	1	
14	74345	CP6599-IZP	Locknut		1
15	74346	CP9641-INP	Stem nut, steel -N.P.	1	1
16	74347	CP6595-SS	Trigger stop spring	1	1
17	74348	CP7991-IZP	Washer	1	1
18	74349	CP6597-INP	Trigger guide	1	1
19	74350	CP6591-SS	Spring stud	1	1
20	74351	CP6589-IZP	Stop adjusting nut	1	1
21	74352	CP6594-SS	Spring	1	1
22	74353	CP6588-IZP	Spring screw	1	1
23	74354	CP6592-302SS	Guide washer	1	1
24	74355	CP6593-2-SS	Main spring	1	1
25	74356	CP1447-1-AL	Handle body	1	1
26	74357	CP7623-IZP	Rivet (2 required)	1	1
27	74358	CP6209-INP	Trigger	1	1
28	74359	CP6510-INP	Trigger stop	1	1
29	74360	CP11757-INP	Screw, steel	1	1
30	74361	CP13798-INP	Trigger guard, steel	1	1
31	74362	7029-AL	GHT (F) x 1/2" NPT (M) inlet adapter w/gasket - brass	1	1
	74201	AB43-kit	Spare parts kit - brass (items marked *)	1	
	74202	AB43-AL-kit	Spare parts kit - aluminum (items marked *)		1

**Hypro Lurmark Hand Gun (Parts Only)**

**LIGHTWEIGHT TRIGGER VALVE AND LANCE**

REF	PART NO.	REPLACES	DESCRIPTION
2	74441	1912-042	Handle
4	74443	1912-044	Cap
5	74444	1912-049	O-Ring
6	74445	1912-055	Hose
7	74446	1912-056	Elbow
8	74447	1912-058	Cap
9	74448	1912-062	Grommet
10	80-2NER	1902-347	Fan tip
11	72645	1902-401	Anvil tip
12	74449	1911-213	Disc
13		1911-214	Core (see page 3-27, 3-28)
14	74451	1902-503	Adjustable nozzle



**Spraying Systems No. AA12 & AA18 Brass or Aluminum**



Handle rotates 360° to operate spray gun valve from shut-off to maximum flow position. As handle is turned, spray changes from initial cone spray through intermediate cone spray to straight stream. Corrosion and abrasion resistant hardened stainless steel interchangeable orifice discs. Discs may be purchased separately as desired. Standard tips may also be used with these GunJets.

PART NO.	REPLACES	DESCRIPTION
74009	AA12-6	20" brass gun w/GHT connection
74010	AA12-AL-6	20" aluminum gun w/GHT connection
74011	AA18-AL-6 connection	20" aluminum gun w/1/4" NPTF
74203	PKAB-12-KIT	Repair kit for #12 brass gun
74204	PKAB-12-AL-KIT	Repair kit for #12-AL gun
74205	PKAB-18-AL-KIT	Repair kit for #18-AL gun
72836	D-6	Disc
74332	CP1325-AL	Cap for gun

**GunJet No. 12:** length 20" . . . weight 1¾ lbs., brass, garden hose connection. Also available in aluminum as GunJet No. 12AL, weight 1 lb.

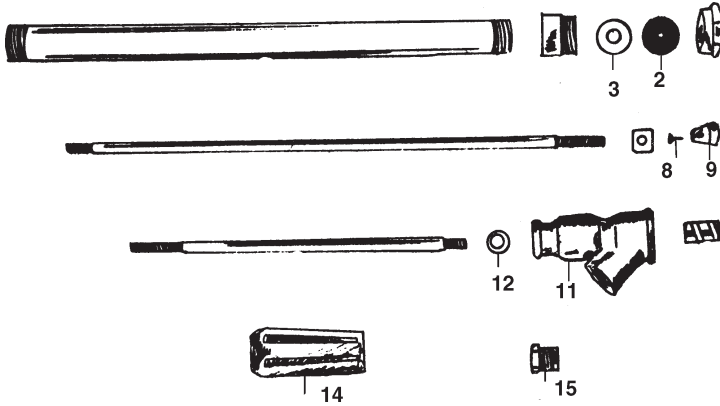
**GunJet No. 18AL:** length 20" . . . weight 1 lb., aluminum, 1/4" NPT female pipe connection.



### Hamilton "Junior" Handgun

Junior guns are shorter and lighter - easily handled. Ideal for low capacity estate sprayers. #4 disc is standard.

PART NO.	REPLACES	DESCRIPTION
74035	HA1400-1	Brass 18" gun, 1/4" FPT

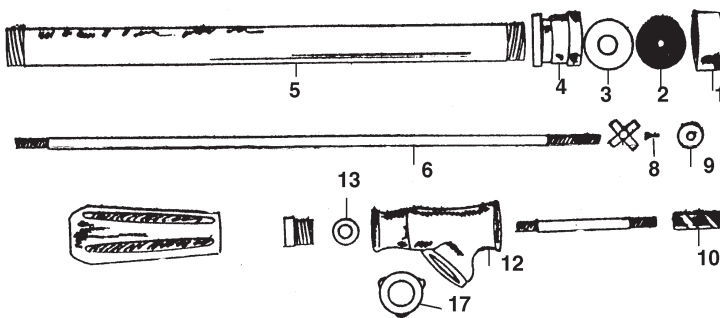


REF	PART NO.	REPLACES	DESCRIPTION
2	74661	1200-007-05	Steel disc
3	See kit*		Shut-off gasket
8	See kit*		Needle point
9	See kit*		Shut-off valve
11	74467	1400-001-01	Stuffing box
12	See kit*		Packing ring
14	74469	8500-052-35	Poly handle
15	74470	1300-005-01	Packing nut
	74220	SPK-1300	Repair kit (items marked *)

### Hamilton "Senior" Handgun

Senior guns are the model of the industry; long and rugged - capable of the various demanding agricultural spray chores in and out of the tractor seat. #5 disc is standard.

PART NO.	REPLACES	DESCRIPTION
74036	HA1000-1	Brass 22" gun, 3/4" GHT
74037	HA1003-2	Aluminum 22" gun, 3/4" GHT



REF	PART NO.	REPLACES	DESCRIPTION
1	74471	1000-003-01	Cap
2	74472	1000-004-05	Steel disc
3	See kit*		Shut-off gasket
4	74473	1000-008-01	Nozzle head
5	74474	1000-011-01	Barrel
6	74475	1000-010-01	Upper valve rod
8	See kit*		Needle point
9	See kit*		Shut-off valve
10	74477	1000-012-01	Worm
12	74479	1000-001-01	Stuffing box
13	See kit*		Packing ring
17	See kit*		Hose gasket
	74221	SPK-1000	Repair kit (items marked *)

**Spraying Systems No. AA143-AL Handgun**

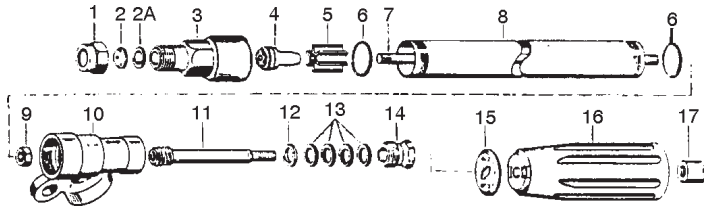


**Maximum Pressure 800 PSI**

**Heavy Duty Type - Rotating Handle Control**

Handle rotates 360° to operate spray gun valve from shut-off to maximum flow position. As handle is turned, spray changes from initial cone spray through intermediate cone spray to straight stream. Corrosion and abrasion resistant hardened stainless steel interchangeable orifice discs. Discs may be purchased separately as desired. Standard tips may also be used with these GunJets.

PART NO.	REPLACES	DESCRIPTION
74013	AA143-AL-GH	22 1/4" aluminum gun w/GHT (garden hose thread) connections



REF	PART NO.	REPLACES	DESCRIPTION
1	74332	CP1325-AL	Cap
2	72834	D4	Orifice disc, stainless
2A	See kit*		Gasket
3	74334	CP10566-AL	Housing
4	See kit*		Seat plug
5	74336	CP10571-AL	Guide vane
6	See kit*		Gasket, aluminum (2 required)
7	74363	CP10576-416SS	Stem, stainless steel
8	74340	CP6604-AL	Tubing
9	74364	CP6618-AL	Nut, Aluminum
9	74432	CP6618	Nut, brass
10	74365	CP6898-ALGHT	Inlet body (GHT)
10	74366	CP6898-AL1/2	Inlet body (3/4")
11**	74367	CP5882-NP	Hand grip stud
12	74368	CP5883-AL	Washer
13	See kit*		Packing (4 required)
14	74369	CP5811-AL	Screw
15**	74370	CP5884-INP	Hand grip collar
16**	74371	CP5994-NY	Hand grip
17**	74372	CP5813-AL	Hand grip nut
	74207	AB143-KIT	Repair kit (brass gun)
	74206	AB143-AL-KIT	Repair kit aluminum gun

\*\*Parts necessary to replace handle on older guns.

**Spraying Systems No. AA2 & AA2-AL Handgun**

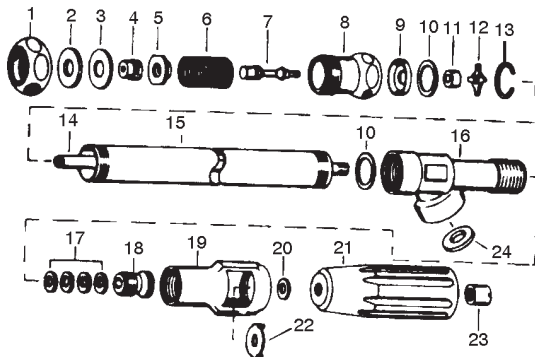
Handle rotates 360° to operate spray gun valve from shut-off to maximum flow position. As handle is turned, spray changes from initial cone spray through intermediate cone spray to straight stream. Corrosion and abrasion resistant hardened stainless steel interchangeable orifice discs. Discs may be purchased separately as desired. Standard tips may also be used with these GunJets.

**GunJet No. 2:** length 24" . . . weight 3 1/2 lbs., brass, garden hose connection. Also available in aluminum as GunJet No. 2AL, 1 1/4 lbs.

**GunJet No. 2A:** length 15" . . . weight 2 1/2 lbs., brass, garden hose connection. Also available in aluminum as GunJet No. 2AAL, 1 lb.



PART NO.	REPLACES	DESCRIPTION
74014	AA2-AL	24" aluminum gun w/GHT connection
74015	AA2-AAL	15" aluminum gun w/GHT connection
74016	AA2	24" brass gun w/GHT connection
74017	AA2A	15" brass gun w/GHT connection



REF	PART NO.	REPLACES	DESCRIPTION
1	74373	CP5804-AL	Cap, aluminum
2	74374	CP6106-AL	Disc adapter, aluminum
3	See kit*		Orifice insert gasket
4	74375	AYH-SS-30	Orifice insert, SS
4	74437	AYH-SS-180	Orifice insert, SS
4	74398	AYH-SS-45	Orifice insert, SS
5	See kit*		Spring plate, aluminum
6	74376	CP5735-SS	Spring
7	See kit*		Adjusting stem end
8	74377	CP5801-AL	Spray housing, aluminum
9	See kit*		Spring collar, aluminum
10	See kit*		Gasket (2 required)
11	See kit*		Seat plate, nylon
12	See kit*		Guide washer, aluminum
13	74378	CP5814-SS	Snap ring
14	74379	CP5796-AL	Adjusting stem, aluminum
14	74399	CP5796	Adjusting Stem Brass
15	74380	CP5795-AL	Tube, aluminum
16	74381	CP5792-GHAL	Inlet body, aluminum 3/4" GHT
17	See kit*		Packing, leather
18	74382	CP6157-ALEF	Packing screw
19	74383	CP5794-AL	Adjusting sleeve
20	74384	CP5815-ICP	Washer
21	74371	CP5994-NY	Hand grip, PVC
22	See kit*		Adj. sleeve collar
23	74372	CP5813-AL	Hand grip nut
24	See kit*		Washer, Buna-N
	74385	CP5806-BU	Gasket for OC tip
	74209	AB2-AL	Repair parts kit (items marked*)

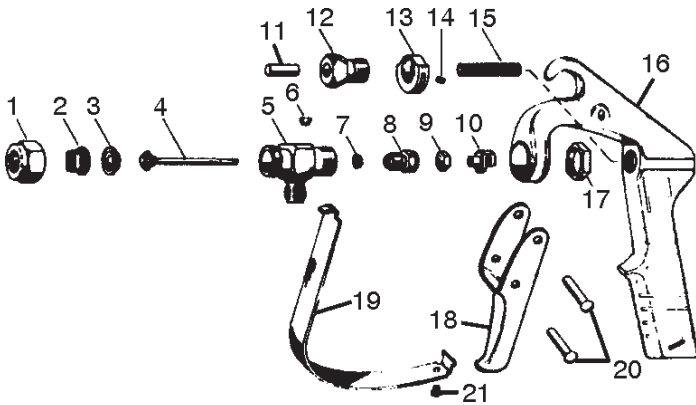
**Spraying Systems No. AA23H Handgun**



**Maximum Pressure 1000 PSI**

Flow rates to 5 gpm. With comfortable trigger grip. Trigger guard helps prevent accidental discharge. Trigger lock holds trigger in "off" position. 1/4" NPT (M) inlet connection. Instant shut-off with valve seat directly behind orifice tip. Use with any standard tip and with low and high pressure extensions.

PART NO.	REPLACES	DESCRIPTION
74018	AA23-H	GunJet w/cap less tip



REF	PART NO.	REPLACES	DESCRIPTION
1	74387	CP7890-NP	Cap, brass
2			Spray tip (see section 3)
3	See kit*		Valve seat, teflon
4	See kit*		Main stem assembly
5	74307	CP16052-NP	Inlet body, brass
6	74306	CP7892-IZP	Key, steel
7	See kit*		Packing cup, Buna-N
8	74305	CP16071-NP	Packing screw, brass
9	74388	CP7484-INP	Stem nut, steel
10	74389	CP7481-INP	Trigger guide, steel
11	74302	CP7491-ALEF	Spring stud, aluminum
12	74390	CP9421-INP	Safety lock screw, steel
13	74391	CP9422-AL	Safety lock cam, aluminum
14	74392	CP9423-I	Socket head set screw, steel
15	See kit*		Main spring, stainless steel
16	74300	CP16054-1-AL	Body, aluminum
17	74304	CP7486-IZP	Lock nut, steel
18	74328	CP14252-INP	Trigger, steel
19	74327	CP9539-INP	Trigger guard, steel
20	74329	CP8038-IZP	Rivet, steel
21	74330	CP9697-INP	Pan head screw, steel
	74208	AB23H-kit	Repair parts kit (items marked *)

**Adjustable Tip**

Adjustable ConeJet tips fit standard TeeJet spray nozzle body. The body of the 5500 rotates for spray selection from wide angle cone to straight stream . . . tip capacities from .02 to .30 gpm at 40 PSI.



1

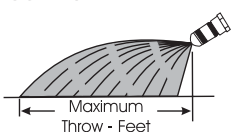
ITEM NO.	PART NO.	REPLACES	DESCRIPTION
1	72633	5500-X5	Adjustable tip (brass) 11/16" Fe Thread
1	72634	5500-X8	Adjustable tip (brass) 11/16" Fe Thread
1	72636	5500-PPB-X8	Adjustable tip (poly) 11/16" Fe Thread
1	75590	5500-X8	Adjustable tip (brass) 1/4" Fe Thread



2

ITEM NO.	PART NO.	REPLACES	DESCRIPTION
2	75591	38720-PPB-X8	Adjustable tip (poly) 11/16" Fe Thread

**TIP SETTING "A"  
CONE SPRAY PATTERN**



**TIP SETTING "B"  
STRAIGHT STREAM SPRAY PATTERN**



Tip No.	Performance	Liquid Pressure in psi					
		20 psi		30 psi		40 psi	
		Setting		Setting		Setting	
5500-X5 or 72633	Capacity - gpm	.061	.21	.076	.26	.082	.30
	Spray Angle	61°	-	70°	-	74°	-
	Max. Throw ft.	2.5	31	2.5	34	3	35
5500-X8 or 72634 72636	Capacity - gpm	.097	.33	.12	.40	.13	.47
	Spray Angle	66°	-	71°	-	74°	-
	Max. Throw ft.	3	34	3	37	3	38

**TeeJet Trigger Adapters**

No. 46 trigger adapter gives trigger “on-off” control to rotating handle GunJet spray guns. Heavy duty design weighs only 13 ounces. 3/4" garden hose inlet and outlet connections to fit GunJet no. 2, 12 and 143AL-GH. For pressures up to 800 psi. Large four-finger trigger for easy trigger control. Trigger lock for continuous spraying. Handle made of aluminum. Buna-N valve seat.



PART NO.	REPLACES	DESCRIPTION
74400	AA46	Trigger adapter
74401	PKAB-46-KIT	Trigger adapter repair kit
74402	3056-1/4	1/4" brass adapter
74403	3056-3/8	3/8" brass adapter
74404	3056-1/2	1/2" brass adapter
74405	11740-A	3/4" garden hose swivel, brass

**MAKES ANY HAND GUN A TRIGGER GUN**

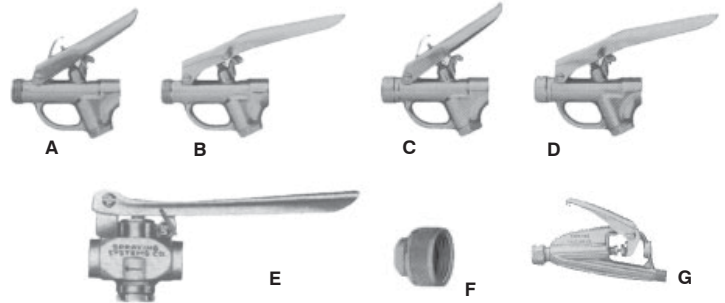


No. 3056 Adapter attaches to outlet of No. 46 trigger valve, to convert valve to spray gun. Choice of 1/4", 3/8" and 1/2" NPT female outlet connections for attachment of nozzles or extensions.

No. 11740A swivel connector is made with 3/4" garden hose connections to fit all GunJet spray guns with similar inlet connections. Provides free-swivelling, leak-proof connections at pressures up to 800 PSI.

**TeeJet Shutoff Valves and Sprayguns**

Quality built, smaller capacity valves and spray guns for dependable, trouble-free performance. Designed for a wide variety of applications such as weed spot spraying, insecticide and pesticide spraying and applying cold water paints.



REF	PART NO.	REPLACES	DESCRIPTION	IN	OUT	MAX. FLOW	MAX. PRESSURE	WT.
A	74406	4688	Trigger valve w/lock	1/4FPT	TeeJet cap	2 gpm	250	5 oz.
B	74407	6466	Same as 4688 less trigger lock w/extra long handle	1/4FPT	TeeJet cap	2 gpm	250	5 oz.
C	74408	6104	Trigger valve w/lock	1/4FPT	1/4FPT	2 gpm	250	5 oz.
D	74409	6590	Trigger valve less lock	1/4FPT	1/4FPT	2 gpm	250	5 oz.
E	74410	AA36-1/4	Trigger valve w/lock	1/4FPT	1/4FPT	7 gpm	150	13 oz.
E	74457	AA36-3/8	Trigger valve w/lock	3/8FPT	3/8FPT	7 gpm	150	13 oz.
F	74411	13212	Adapter for 4688 valve with lock	3/4FGHT	3/8FPT	-	-	-
G	74019	AA31	Trigger Valve	1/4mpt	TeeJet Cap	—	—	12 oz.

Top quality hand valves for use with spray nozzles, extensions and handles to suit your application needs. Hand valve assemblies may be made from parts shown on this page. The “typical assembly” shown at right includes 4727 handle, 4688 valve, 6671-8 curved extension, TeeJet cap and flat spray tip.



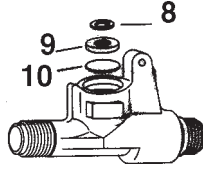
PART NO.	REPLACES	DESCRIPTION
74217	4727	4727 sure grip handle, brass rubber-covered, 1/4" NPT (M), hose inlet connection
74218	4754	4754 sure grip handle, brass, rubber-covered, 3/4" garden hose thread (F) inlet connection
	6671	Lance see page 6-8



## TeeJet Triggerjet Spray Gun

### MODEL 22670

The 22670 TriggerJet spray gun kit combines the 22650 TriggerJet spray gun with an extension wand and the items listed in features. Maximum pressure rating is 150 PSI (10 bar).



#### Features:

- 22650 TriggerJet spray gun with a 1/4" NPT (F) thread inlet connection
- Trigger lock permits locking gun in an open position for continuous flow
- 22665 extension wand with 15" length
- 8079-50-PP tip strainer
- 5500-PPB-X8 adjustable ConeJet spray tip
- CP22673-PP 45° adapter
- Accepts all standard Spraying Systems Co. spray tips and tip strainers

REF	PART NO.	REPLACES	DESCRIPTION
8	74520	CP22676-NEO	Gasket, Neoprene
9	74521	CP22659-PP	Washer, Polypropylene (Black)
10	74522	CP22661-VI	Diaphragm, Viton



PART NO.	REPLACES	EXTENSION LENGTH	INLET CONNECTION
74020	22670-PP-15-1/4	15"	1/4" (F) NPT

## Spraygun Extensions

### LOW PRESSURE STRAIGHT AND CURVED EXTENSIONS

Fits model 23L GunJet spray guns and trigger valves. Designed for use with TeeJet strainers, caps and spray tips.



### HIGH PRESSURE CURVED EXTENSIONS

Use when spraying pressures will be greater than 250 PSI. Fits model 23H GunJet spray guns. Body designed for use with TeeJet strainers, caps and spray tips. Fixed position body, brass constructed with rubber covered handle (except in 8" length). Warning: Do not use at pressure higher than those specified for valve or spray gun.



## REPLACEMENT PARTS

PART NO.	REPLACES	DESCRIPTION
74198	22650-PP-1/4	Complete handle w/trigger
74459	CP22653-1/4-PP	Handle
75168	CP22653-3/8-PP	Handle
74199	22665-15-PP	15" lance
74214	22665-24-PP	24" lance
74297	CP22664-PP	Adapter
74215	CP22673-PP	45° adapter
50MN	8079-PP-50	Screen 50 mesh
72636	5500-PPB-X8	Adjustable tip poly
74216	PK-AB22670-PP-KIT	Includes spring, gasket, diaphragm and O-Rings for 74198

## REPLACEMENT PARTS

REF	PART NO.	REPLACES	DESCRIPTION
-----	----------	----------	-------------

#### Maximum Pressure 250 PSI

1	74315	7715-8	8" straight with fixed body
1	74316	7715-18	18" straight with fixed body
1	74317	7715-24	24" straight with fixed body
1	74325	7715-30	30" straight with fixed body
1	74318	7715-36	36" straight with fixed body
1	74319	7715-48	48" straight with fixed body

#### Maximum Pressure 125 PSI

2	74412	4673-8	8" curved with swivel body
2	74413	4673-18	18" curved with swivel body
2	74414	4673-24	24" curved with swivel body
2	74415	4673-30	30" curved with swivel body
2	74416	4673-36	36" curved with swivel body
2	74417	4673-48	48" curved with swivel body

#### Maximum Pressure 125 PSI

3	74418	6671-8	8" curved with fixed body
3	74419	6671-18	18" curved with fixed body
3	74420	6671-24	24" curved with fixed body
3	74421	6671-30	30" curved with fixed body
3	74422	6671-36	36" curved with fixed body
3	74423	6671-48	48" curved with fixed body

#### Maximum Pressure 1000 PSI

4	74424	9527-8	8" curved high pressure
4	74425	9527-18	18" curved high pressure
4	74426	9527-24	24" curved high pressure
4	74427	9527-36	36" curved high pressure
4	74428	9527-48	48" curved high pressure

## Telescoping Handwand

The new Gun-Action Telescoping Handwand!  
This wand will be an asset for any sprayer!

- Adjusts from 32" to 51" in just a twist of the wrist.
- You can now reach those taller trees, go deeper in those tight corners, under decks & patios.
- The spray tip is also adjustable from a full cone spray to a straight stream.
- Quick release Trigger lock.
- Weight is less than 1/2 lb.
- Aluminum Telescoping Pipe
- 0.15 - 0.2 GPM at 40 PSI
- Will interchange with any flat screen tip
- 3/8" hose barb standard



**PART NO.  
75180**

## 1/8 DT Tips for Wands



Part numbers listed are with 40° spray angle. Also available in 15°, 25°, 50°, 65°, 80° and 95° spray angles. Brass nozzles and solid stream nozzles are also available in all capacity sizes shown.

PART NO.	REPLACES	MATERIAL	40 PSI	100 PSI	200 PSI	GPM AT PSI BASED ON WATER						
						300 PSI	400 PSI	500 PSI	600 PSI	700 PSI	800 PSI	1000 PSI
72628	H-1/8DTSS 40-04	Stainless steel	.40	.63	.89	1.1	1.3	1.4	1.6	1.7	1.8	2.0
72629	H-1/8DTSS 40-06	Stainless steel	.60	.95	1.3	1.6	1.9	2.1	2.3	2.5	2.7	3.0
72630	H-1/8DTSS 40-09	Stainless steel	.90	1.4	2.0	2.5	2.9	3.2	3.5	3.8	4.0	4.5
72632	H-1/8DTSS 65-09	Stainless steel	.90	1.4	2.0	2.5	2.9	3.2	3.5	3.8	4.0	4.5

## High Pressure Wand

- Pressure molded handle
- Continuous 1/8" steel barrel

PART NO.	REPLACES	DESCRIPTION
74485	5271406	18" galvanized wand



## WP Handgun Kits



### SPW WP300

Handgun kit with Spraying Systems pistol grip handgun, shutoff valve,  $\frac{3}{8}$ " x 25' hose assembly. To be used on sprayers not plumbed for handguns.

**Note:** For parts breakdown see Section 9



### SPW WP302

Handgun kit with Hamilton twist adjust handgun, shutoff valve,  $\frac{3}{8}$ " x 25' hose assembly. To be used on sprayers not plumbed for handguns.

**Note:** For parts breakdown see Section 9

### SPW WP303

Handgun kit with Spraying Systems polypropylene,  $\frac{1}{4}$ " x 12- $\frac{1}{2}$ ' hose assembly. Economy handgun, can be used on all WP estate sprayers.

**Note:** For parts breakdown see Section 9



### SPW WP308

Handgun kit with pistol grip handgun, gun and hose holder,  $\frac{3}{8}$ " x 25' hose assembly. Used on WP31140 and WP62140 and other 3 point sprayers

**Note:** For parts breakdown see Section 9



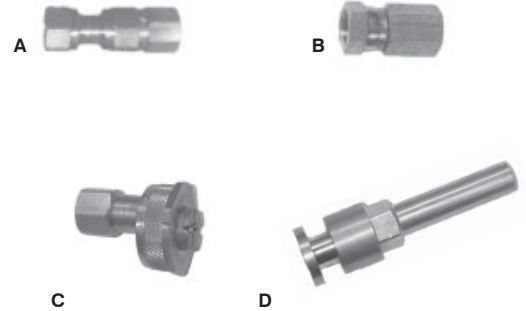
### SPW WP304

Handgun kit with pistol grip handgun, gun holder,  $\frac{3}{8}$ " x 12- $\frac{1}{2}$ ' hose assembly. Can be used on all WP estate Sprayers.

**Note:** For parts breakdown see Section 9

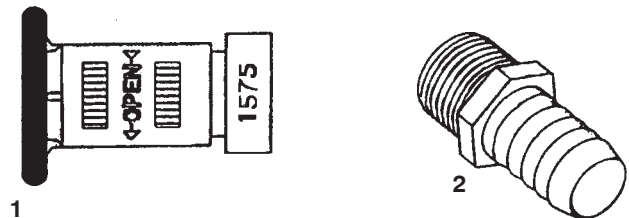
**Accessories for Guns**

REF	PART NO.	REPLACES	DESCRIPTION
A	74393	11990-10	1/4" NPT x 1/4" NPT female brass swivel
B	HYD0207-4x4	5010101	Connector 1/4" NPT x 1/4" NPT female (does not swivel after tight)
C	74394	AA120-3	Quick change MultiJet nozzle (3) 2 gpm tips (1) injection tip
C	74395	AA120-3	Quick change MultiJet nozzle (3) 3 gpm tips (1) injection tip
D	74490	50257	Extended range handgun nozzle assembly. (increases range 15 feet at 50 psig with 45° angle to the ground) Replaces standard orifice disc on end of handgun
	74491	50288	Same as 74490 less adapter, less disc
	74492	32032-2	Same as 74491 less Venturi cover



**Fire Hose Nozzle (Red Plastic)**

PART NO.	DESCRIPTION X THREAD
73603	1 1/2" nozzle NPSH
75789	2" nozzle NPSH
75790	1" nozzle NPSH
75791	3/4" nozzle GHT



**HOSE BARBS  
SEE PAGE 5-20 & 5-28**

Complete assemblies of gun and wands with quick disconnect couplers. (#78118 1/4 Female Coupler and #78125 3/8 Male Coupler)



PART NO.	LENGTH	WEIGHT	DESCRIPTION
75205	36"	3.24 lbs.	with 78084 gun
75209	36"	3.08 lbs.	with 78082 gun
75219	47"	4.36 lbs.	with 78082 gun
75222	59"	4.64 lbs.	with 78082 gun
75223	79"	5.2 lbs.	with 78082 gun



## High Pressure Wands

### ST 003 LANCES

Pressure: 4000 PSI  
 Flow Rate: 12 US gpm  
 Temperature: 300°F  
 SCH 80 Aluminum 1/4" MPT both ends

PART NO.	SIZE
SPP 78074	18"
SPP 78075	24"
SPP 78076	36"
SPP 78077	47"
SPP 75007	59"
SPP 75012	72"
SPP 75013	79"



### ST 54 DOUBLE-LANCE

Pressure: 3000 PSI  
 Flow Rate: 12 gpm  
 Temperature: 300°F  
 Less Tips

PART NO
SPP 78102



### ST 2500

Easy trigger operation and light to hold

Pressure: 4000 PSI  
 Flow Rate: 12 gpm  
 Temperature: 300°F  
 Weight: 19 oz.  
 3/8" FPT inlet  
 1/4" FPT outlet

PART NO
SPP 78084

REPAIR KIT
SPP 78128



### ST 810

Pressure: 2150 PSI  
 Flow Rate: 7 gpm  
 Temperature: 210°F  
 Weight: 19 oz.  
 3/8" FPT inlet  
 1/4" FPT outlet  
 Fits Westward Pressure Washers  
 (except 3011)

PART NO
SPP 78105

REPAIR KIT
SPP 78129



### MTM LOW PRESSURE SPRAY GUN

Max Pressure: 350 PSI  
 Max Flow Rate: 26 US gpm  
 Max Temperature: 200°F  
 1/2" FNPT inlet  
 Garden Hose Spray outlet

PART NO
SPP 75048



### ST 007 LANCES WITH MOLDED GRIPS

Pressure: 4000 PSI  
 Flow Rate: 12 US gpm  
 Temperature: 300°F  
 Plated Steel 1/4" MPT both ends

PART NO.	SIZE
SPP 78078	18"
SPP 78079	24"
SPP 78080	36"
SPP 78081	47"
SPP 74219	59"
SPP 74224	79"



### LANCE HANDLE

Fits on any standard pressure washer lance for extra hold.

PART NO
SPP 75204



### ST 1000 GUN HANDLE

Open Flow Design with no trigger

Pressure: 4000 PSI maximum  
 Flow Rate: 12 gpm maximum  
 Temperature: 300°F  
 3/8" FPT inlet  
 1/4" FPT outlet

PART NO
SPP 78082



### ST 1500 GUN

Pressure: 4000 PSI  
 Flow Rate: 7 gpm  
 Temperature: 300°F  
 3/8" FPT inlet  
 1/4" FPT outlet  
 Fits Westward 3011 Pressure Washers

PART NO
SPP 78083

REPAIR KIT
SPP 78127



### PA VEGA SPRAY GUN

Max Pressure: 5000 PSI  
 Max Flow: 8 gpm  
 Temperature: 300°F  
 3/8" FNPT inlet  
 1/4" FNPT outlet

PART NO
SPP 75045



**25° Spray Tips 1/4" Male and Female Pipe Thread**



**Tips/Nozzles**

Nozzles restrict water flow sufficiently to develop the required pressure. Nozzle size therefore influences the pressure and flow rate. Nozzles also break the liquid flow into optimum sized droplets, form the spray pattern and propel the droplets in the proper direction.

Note: Flow through an orifice will gradually make the hole bigger resulting in lower pressure. Frequently users will complain that their high pressure cleaner does not perform as well as before when in fact all it requires is the correct size nozzle

**NOZZLE VOLUME (GPM) AT VARIOUS PRESSURES (PSI)**

Female Part No.	Male Part No.	Nozzle Size	Orifice Dia. (in)	40 PSI	100 PSI	250 PSI	500 PSI	600 PSI	700 PSI	800 PSI	1000 PSI	1200 PSI	1500 PSI	2000 PSI	2500 PSI	3000 PSI	3500 PSI	4000 PSI
78892	78109	4.0	0.052	0.40	0.63	1.0	1.4	1.6	1.7	1.8	2.0	2.2	2.5	2.8	3.1	3.5	3.8	4.0
78889	78110	4.5	0.055	0.45	0.71	1.1	1.5	1.7	1.9	2.0	2.2	2.4	2.8	3.0	3.6	3.9	4.3	4.5
78893	78111	5.0	0.057	0.50	0.79	1.3	1.8	1.9	2.1	2.2	2.5	2.8	3.1	3.6	4.0	4.4	4.7	5.0
78894	78112	5.5	0.060	0.55	0.87	1.4	1.9	2.1	2.3	2.5	2.8	3.0	3.4	3.8	4.4	4.8	5.2	5.5
78895	78113	6.0	0.062	0.60	0.95	1.5	2.1	2.3	2.5	2.7	3.0	3.2	3.7	4.2	4.8	5.2	5.6	6.0
78896	78114	6.5	0.064	0.65	1.00	1.7	2.3	2.5	2.7	2.9	3.3	3.6	4.0	4.6	5.2	5.7	6.0	6.5
78897	78115	7.0	0.067	0.70	1.10	1.8	2.5	2.7	2.9	3.1	3.5	3.8	4.3	5.0	5.6	6.1	6.6	7.0
78898	78116	7.5	0.070	0.75	1.20	1.9	2.7	2.9	3.2	3.4	3.8	4.1	4.6	5.3	6.0	6.5	7.0	7.5
78899	78117	8.0	0.072	0.80	1.30	2.0	2.8	3.1	3.4	3.6	4.0	4.4	5.0	5.6	6.2	7.0	7.5	8.0

\* A commonly used standard for nozzle size is the nozzle number which is equivalent to the nozzle capacity in GPM at 4000 PSI. Spray angle does not affect nozzle volume

**Brass Wand Couplers and Plugs**

**FEMALE COUPLER X MPT**



1/4" NPT  
3/8" NPT  
1/2" NPT

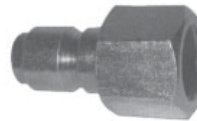
74226  
74227  
74591

**FEMALE SOCKET**



78118  
78119  
78120

**FEMALE PLUG**

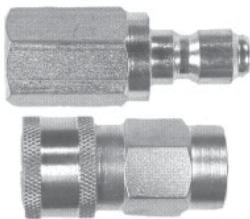


78121  
78122  
78123

**MALE PLUG**



78124  
78125  
78126



Longer body for greater strength.

PART NO.	SIZE	DESCRIPTION
78029	1/4"	Stainless-Steel Plug
78037	1/4"	Brass w/Stainless Sleeve Coupler

**FEMALE PIPE CONNECTOR**

PART NO. (STEEL)	PIPE THREAD	
	T1	T2
HYD 0202-4X4	1/4 x 18	1/4 x 18



**O-RINGS FOR FEMALE COUPLERS**

PART NO.	DESCRIPTION
74228	1/4" O-Ring
74229	3/8" O-Ring
74232	1/2" O-Ring

## Complete Handguns



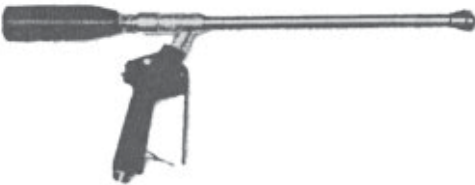
Standard turbine spray gun. Adjustable from cone to stream spray. At 850 PSI with #2.3 nozzle straight stream range is 45'. 21" (550 mm) long.

PART NO.	DESCRIPTION
75487	Gun
74590	Repair parts kit



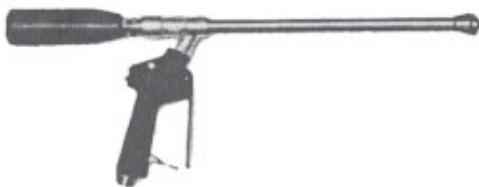
Long range spray gun. Adjustable from cone to stream spray. At 850 PSI with #4.5 nozzle straight stream range is 62'. 25" (640 mm) long.

PART NO.	DESCRIPTION
75488	Gun
74590	Repair parts kit



- Complete with spraying systems end adapter, brass cap, orifice and garden hose adapter.
- 12" lance
- D6 orifice
- Max PSI- 750 lbs.

PART NO.	DESCRIPTION
78357	Handgun
78362	Repair kit



- Complete with spraying systems end adapter, brass cap, orifice and garden hose adapter.
- 24" lance
- D6 orifice
- Max PSI - 750 lbs.

PART NO.	DESCRIPTION
78358	Hand gun
78362	Repair kit

**LONG HAND WANDS SEE SECTION 7**

**I N D E X**

<b>ACCESSORIES</b>	7-5 to 7-10	<b>INTER PUMP PARTS</b>	7-41 to 7-43
<b>CAM LOCKS</b>	7-29	<b>KARCHER ADAPTERS</b>	7-24
Centrifugal Pump	7-29	<b>LANCES</b>	7-13, 7-16
<b>CHEMICAL INJECTORS</b>	7-26, 7-27	<b>LONG WANDS</b>	7-7
<b>CLEANING CHEMICALS</b>	7-9 to 7-10	<b>METERING VALVE</b>	7-24
<b>COMET PUMP PARTS</b>	7-35 through 7-40	<b>NOZZLES</b>	7-12, 7-17 to 7-19
<b>COUPLERS</b>	7-12, 7-14, 7-19, 7-29	<b>OIL</b>	7-25
<b>DRAIN CLEANING NOZZLES</b>	7-22, 7-34	<b>PRESSURE GAUGES</b>	7-21, 7-26
<b>FILTERS</b>	7-12, 7-22, 7-23, 7-25	<b>PRESSURE REGULATORS</b>	7-14, 7-20, 7-21
<b>FLEX WAND</b>	7-22	<b>PRESSURE WASHER ACCESSORIES</b>	7-5 to 7-10
<b>FLOAT</b>	7-23	<b>PRESSURE WASHERS</b>	7-1 to 7-3
<b>GAUGES</b>	7-21, 7-26	<b>PRESSURE WASHER CARTS</b>	7-4
<b>GASCAP</b>	7-28	<b>PRESSURE WASHER PARTS</b>	7-11 to 7-14
<b>GENERAL PUMP PARTS</b>	7-41 to 7-43	<b>PRESSURE WASHER PUMPS</b>	7-11
<b>GUTTER CLEANER</b>	7-22	<b>PUMP OIL</b>	7-25
<b>HANDGUNS</b>	7-6, 7-8, 7-13, 7-16, 7-17	<b>QUICK COUPLERS</b>	7-12, 7-14, 7-19, 7-29
<b>HONDA GAS CAP</b>	7-28	<b>ROTARY NOZZLES</b>	7-31, 7-32
<b>HOSE REELS</b>	7-8	<b>ROTATING BRUSH</b>	7-8
<b>HOSE ASSEMBLIES</b>	7-13, 7-15, 7-34	<b>SAND BLAST KIT</b>	7-25

**I N D E X**

<b>SEWER HOSE ASSEMBLIES</b>	7-34	<b>WATER SUCTION KIT</b>	7-25
<b>SEWER NOZZLES</b>	7-22, 7-34	<b>WESTWARD PARTS PRESSURE WASHERS</b>	7-1 to 7-3
<b>SLUDGE PUMP</b>	7-33, 7-34	<b>WESTWARD PARTS PRESSURE WASHER PUMPS</b>	7-11
<b>SOAP</b>	7-9, 7-10	<b>WP PRESSURE WASHER PUMP PARTS</b>	7-35 through 7-40
<b>SOAP INJECTORS</b>	7-26, 7-27	<b>WHEELS</b>	7-4, 7-28
<b>SOAP SUCTION FILTER</b>	7-14, 7-21	<b>WHIRL-A-WAY</b>	7-5, 7-6
<b>SPECIAL PURPOSE NOZZLES</b>	7-30, 7-31		
<b>SPRAY GUNS</b>	7-6, 7-8, 7-13, 7-16, 7-17		
<b>SWIVELS</b>	7-26, 7-27		
<b>TEFLON TAPE</b>	7-25		
<b>TIPS FOR WESTWARD PRESSURE WASHERS</b>	7-12		
<b>TIPS</b>			
1/8 Female Thread	7-17		
1/4 Female Thread	7-19		
1/4 Male Thread	7-18, 7-19		
<b>TIRES</b>	7-4, 7-28		
<b>TRASH PUMP</b>	7-29		
<b>UNLOADER VALVES</b>	7-14, 7-20, 7-21		
<b>WATER BROOM</b>	7-6		
<b>WATER FILTERS</b>	7-12, 7-22, 7-23, 7-25		
<b>WATER PUMPS</b>	7-29		

**Pressure Washers**



**MODEL WSS E1015**

1000 PSI  
1.5 horsepower  
2.0 gallons per minute



**MODEL WSS E1520**

1500 PSI  
2.0 horsepower  
2.0 gallons per minute



**MODEL WSS 2005E**

2000 PSI  
5.0 horsepower  
2.8 gallons per minute



**MODEL WSS 2055**

2000 PSI  
5.5 horsepower  
3.0 gallons per minute



**MODEL WSS 3011**

3000 PSI  
11.0 horsepower  
4.0 gallons per minute



**NOTE: FOR PRESSURE WASHER SPECIFICATIONS SEE PAGE 7-2**  
**NOTE: FOR PARTS BREAKDOWN SEE PAGE 7-11 THROUGH 7-XX**

## Pressure Washers

### SPECIFICATIONS AND STANDARD FEATURES

MODEL	WSS E1015	WSS E1520	WSS 2005E	WSS 2055	WSS 3011
<b>Motor</b>	1.5 HP Baldor 110/220 volt 13.8 amp draw	2 HP Baldor 110/220 volt 17.5 amp draw	5 HP Honda GC Series	5.5 HP Honda GX Series	11 HP Honda GX Series*
<b>Pump</b>	1000 PSI, 2 gpm Comet Axial	1500 PSI, 2 gpm Comet Axial	2000 PSI, 2.8 gpm Comet AXD Radial	2000 PSI, 3 gpm Comet LWD Triplex	3000 PSI, 4 gpm Comet ZWD Triplex
<b>Hose</b>	30' wire braid w/ quick coupler at pump and gun	30' wire braid w/ quick coupler at pump and gun	25' wire braid w/ quick coupler at pump	30' wire braid w/ quick coupler at pump and gun	50' wire braid w/ quick coupler at pump and gun
<b>Hand Gun</b>	maximum pressure 4000 PSI	maximum pressure 4000 PSI	maximum pressure 2600 PSI	maximum pressure 4000 PSI	maximum pressure 4000 PSI
<b>Lance</b>	plated 36" insulated	plated 36" insulated	plated 36" insulated	plated 36" insulated	plated 36" insulated
<b>Standard Nozzles</b>	0°, 15°, 40° & soaper	0°, 15°, 40° & soaper	15°, 40° & soaper	0°, 15°, 40° & soaper	0°, 15°, 40° & soaper
<b>Chemical Injector</b>	low pressure	low pressure	low pressure	low pressure	low pressure
<b>Cart</b>	HD U handle with tip, hose & gun storage powder coated	HD U handle with tip, hose & gun storage powder coated	HD U handle with tip, hose & gun storage powder coated	HD U handle with tip, hose & gun storage powder coated	HD U handle with tip, hose & gun storage powder coated
<b>Tires</b>	4.10/8.50-4 pneumatic	4.10/8.50-4 pneumatic	4.10/8.50-4 pneumatic	4.10/8.50-4 pneumatic	4.10/8.50-4 pneumatic
<b>Shipping Weight</b>	86 lbs.	92 lbs.	74 lbs.	87 lbs.	135 lbs.

\*WSS 3011 equipped with easy start unloader valve

**Gas Pressure Washers — Special Order**

PART NO.	DESCRIPTION
WSS4013	Honda Pull start 13 HP, GX Engine Comet Pump, 3700-4000 PSI 4 GPM

**SAME STANDARD FEATURES AS WSS 3011**

**Electric Pressure Washers — Special Order**

PART NO.	DESCRIPTION
WSS ETRI 1015	Baldor, 1½HP, Single Phase, 110 Volt, 1100 PSI, 2 GPM
WSS ETRI 1520	Baldor, 2 HP, Single Phase, 110 Volt, 1500 PSI, 2 GPM
WSS ETRI 2030	Baldor, 3 HP, Single Phase, 220 Volt, 2000 PSI, 2.2 GPM

Comes with Triplex Comet Pump, Cart 10" tires, 30 ft. Hose, Relief Valve, Chemical Injector, 4000 PSI Gun, 36" Lance, 4 Quick Connect Spraytips, Direct drive with switch, cord and plug.

**Electric Pressure Washers (same as above, less switch, cord and plug — Special Order**

PART NO.	DESCRIPTION
WSS ETRI 2050	Baldor, 5HP, Single Phase, 220 Volt, 2000 PSI, 3.5 GPM
WSS ETRI 2775	Baldor, 7½ HP, Single Phase, 220 Volt, 2700 PSI, 3.5 GPM
WSS ETRI 3010	Baldor, 10 HP, 3 Phase, 220-460 Volt, 3000 PSI, 4 GPM

**Hot Water Washer**

PART NO.	DESCRIPTION
WSS HW1218	Comes with cord, plug not included

**SPECIFICATIONS**

Max Pressure 1200 PSI  
 Max Flow 1.8 GPM  
 Motor 1.8 HP (1 phase) 110 volt  
 Pump Comet  
 Fuel Burns #1 grade oil  
 Weight 175 lbs.



**HW1218**



## Pressure Washer Carts

PART NO.	DESCRIPTION
WSS PWCART-SH	Single handle assembly (less wheels & tires)

Base Plate: 13" wide x 13" long  
 Total dimensions: 21" wide x 26" long  
 Height to top of base plate: 7"  
 Weight: 13½ lbs.  
 ¾" axle  
 Recommended for 4.0-6.5 HP gas engines.



PART NO.	DESCRIPTION
WSS PWCART	Medium frame assembly (less wheels & tires)

Base Plate: 10½" wide x 19" long  
 Total dimensions: 30½" wide x 36" long x 19" high  
 Height to top of base plate: 6"  
 Weight: 25 lbs.  
 ¾" axle  
 Recommended for 5.5-13 HP gas engines.



PART NO.	DESCRIPTION
WSS PWCART-LS	Large frame assembly (less wheels & tires)

Base Plate: 14" wide x 20" long  
 Total dimensions: 27" wide x 46" long x 28½" high  
 Height to top of base plate: 9½"  
 Weight: 29½ lbs.  
 ¾" axle  
 Recommended for 9.0-13 HP gas engines.



PART NO.	DESCRIPTION
78205	410 x 350 x 4 tire & wheel
78206	13 x 500 x 6 tire & wheel
74689	Chrome hub cap
74237	Round rubber foot 2½" wide x 1" high
78407	Knob and bolt for cart handle
74238	Grommet to hold nozzles
78414	Decal-Pressure Washer operating instructions
75054	Large rubber foot 6" wide x 1½" high



78205



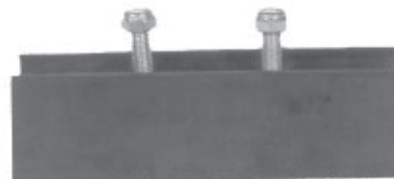
78206



74237



74238



75054

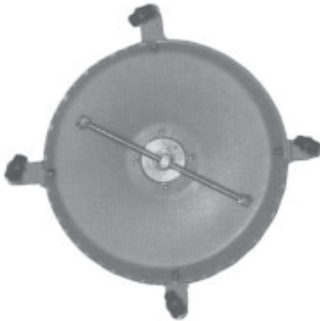
**Pressure Washer Accessories**



**16" WHIRL-A-WAY**

Used to clean flat surfaces quickly and easily. 16" diameter with nylon brush skirt.  
PSI: 4000  
GPM: 8  
Temp: 180°F

PART NO.	DESCRIPTION
WSS 16WAW	16" Whirl-A-Way (complete unit)
SPP 74256	Rotary head
SPP 74259	Rotary arm 14"
SPP 74263	Rotary head repair kit
SPP 74264	Replacement nozzle tip
SPP 74266	Nylon brush skirt



**18" WHIRL-A-WAY**

Used to clean flat surfaces quickly and easily. 18" diameter with casters.  
PSI: 4000  
GPM: 8  
Temp: 180°F

PART NO.	DESCRIPTION
WSS 18WAW	18" Whirl-A-Way (complete unit)
SPP 74257	Rotary head
SPP 74260	Rotary arm 16"
SPP 74263	Rotary head repair kit
SPP 74265	Replacement nozzle tip
SPP 74267	1" caster



**20" WHIRL-A-WAY**

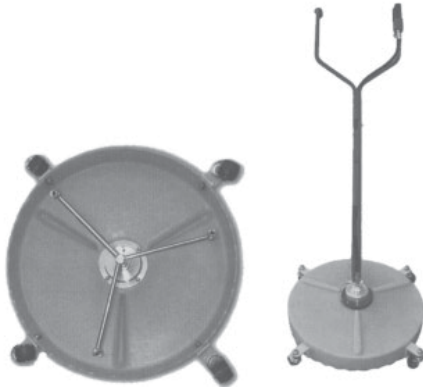
Used to clean flat surfaces quickly and easily. 20" diameter with nylon brush skirt.  
PSI: 4000  
GPM: 8  
Temp: 180°F

PART NO.	DESCRIPTION
WSS 20WAW	20" Whirl-A-Way (complete unit)
SPP 74256	Rotary head
SPP 74261	Rotary arm 18"
SPP 74263	Rotary head repair kit
SPP 74265	Replacement nozzle tip
SPP 74268	Nylon brush skirt

**Pressure Washer Accessories**
**24" WHIRL-A-WAY**

Tri-Arm design cleans 30% more efficiently in 30% less time. 24" diameter on casters. 3 ribbed cover.

PSI: 4000  
 GPM: 8  
 Temp: 180°F



PART NO.	DESCRIPTION
WSS 24WAW	24" Whirl-A-Way (complete unit)
SPP 74258	Rotary head
SPP 74262	Rotary arm (18" radius)
SPP 74263	Rotary head repair kit
SPP 74265	Replacement nozzle tip
SPP 74269	1 1/2" caster

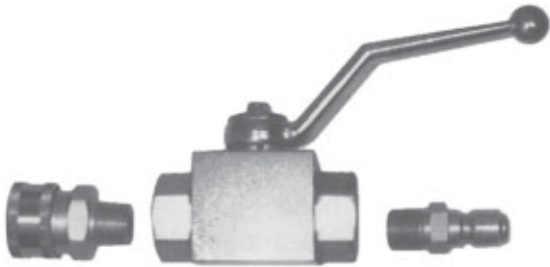
**GUN AND BALL VALVE KIT FOR WHIRL-A-WAY**

Used to easily interchange between Whirl-A-Way and gun for spot cleaning

PART NO.	DESCRIPTION
SPP 74270	Gun & ball valve


**3/8" BALL VALVE KIT**

PART NO.	DESCRIPTION
SPP 74271	Ball valve kit (complete)
SPP 74227	Coupler
SPP 74272	Ball valve
SPP 78125	3/8" plug


**Small Water Broom**

Max Pressure: 4000 PSI  
 Max Flow: 4 US GPM  
 Width: 12"  
 Nozzles: 3

**REPLACEMENT NOZZLE**

Part No. 75049

**PART NO. 78380**


**Large Water Broom**

Max Pressure: 4000 PSI  
 Max Flow: 6 US GPM  
 Width: 16"  
 Nozzles: 4

**PART NO. 78381**



**Pressure Washer Accessories**

**REGULAR LONG WANDS**

PART NO.	LENGTH	DESCRIPTION	PSI	GPM	TEMPERATURE
SPP 74273	6'6" to 12'	Brass coupler & Steel plug	3000	6	200°F
SPP 74274	6'6" to 18'	Brass coupler & Steel plug	3000	6	200°F
SPP 74275	8'6" to 24'	Brass coupler & Steel plug	3000	6	200°F

**HEAVY DUTY LONG WANDS**

PART NO.	LENGTH	DESCRIPTION	PSI	GPM	TEMPERATURE
SPP 74276	6'6" to 18'	Stainless Steel Coupler & steel Plug	4000	6	200°F
SPP 74277	8'6" to 24'	Stainless Steel Coupler & steel plug	4000	6	200°F

**SUPER HEAVY DUTY LONG WANDS**

PART NO.	LENGTH	DESCRIPTION	PSI	GPM	TEMPERATURE
SPP 75592	6'6" to 18'	Stainless Steel Coupler & Plug	4000	6	200°F
SPP 74278	8'6" to 24'	Stainless Steel Coupler & steel plug c/w belt kit	4000	6	200°F



**NEW SUPER-FLEX ZYLON GUN**

PART NO.	DESCRIPTION
SPP 74239	Replacement gun
SPP 74240	Repair kit for gun



**BRASS COUPLER ON REGULAR, WANDS**

**BRASS WITH STAINLESS SLEEVE  
COUPLER ON HEAVY DUTY WANDS**



**LONG WAND BELT KIT**

PART NO.	DESCRIPTION
SPP 74279	Belt Kit

Quick release buckle feature. Used to support long wand, making use easier. For use with all long wands.



## Pressure Washer Accessories

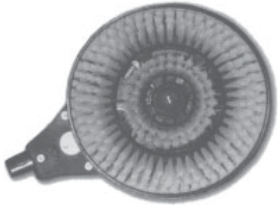


### AR ROTATING BRUSH

- 2000 PSI
- Temp 140°F
- Brush is made of nylon for longer life

**PART NO.**

SPP 74583



### ROTATING BRUSH

- 3000 PSI
- Temp 140°F
- Inlet 1/4 MPT

**PART NO.**

SPP 74584



### HOSE REEL - 3/8" HOSE (MANUAL WIND)

- 3000 PSI
- 160°F
- Direct hand crank

**PART NO.**

SPP 75593

**DESCRIPTION**

75' Reel

SPP 74585

100' reel

SPP 74586

200' reel

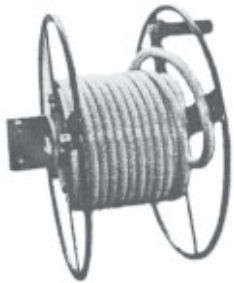
**REPAIR KIT**

75' Reel - 74980

100' Reel - 74981

200' Reel - 74982

(hose not included)



### HOSE REEL - 1/2" HOSE (MANUAL WIND)

Handles 1/2" high pressure hose.

**PART NO.**

SPP 74587

**DESCRIPTION**

200' reel

SPP 74588

400' reel

SPP 72044

replacement swivel

SPP 78398

3/8" Hose Barb Fitting (Brass)

SPP 78399

1/2" Hose Barb Fitting (Brass)

(hose not included)



Standard turbine spray gun. Adjustable from cone to stream spray. At 850 PSI with #2.3 nozzle straight stream range is 45'. 21" (550 mm) long. 140°F

**PART NO.**

SPP 75487

**DESCRIPTION**

Gun

SPP 74590

Repair parts kit



Long range spray gun. Adjustable from cone to stream spray. At 850 PSI with #4.5 nozzle straight stream range is 62'. 25" (640 mm) long. 140°F

**PART NO.**

SPP 75488

**DESCRIPTION**

Gun

SPP 74590

Repair parts kit

**Pressure Washer Accessories**

**ENVIRONMENTALLY SAFE BIODEGRADABLE  
PRESSURE WASHER CLEANING CHEMICALS**

- These concentrated formulas are designed to work through & with all cold or hot steam high pressure washers to clean a multitude of soils from a wide range of surfaces.
- Chemically engineered to meet the tough cleaning requirements for farm, commercial & industrial vehicles, equipment & buildings
- Available in 2 convenient sizes - 4 & 20 litres

**WESTWARD PARTS**  
S E R V I C E S L T D

**WP40**

☐ 4 L      ☐ 20L

**Biodegradable Citrus  
Cleaner/Degreaser**

Manufactured for Westward Parts Services Ltd.  
Made in Canada

Part no.	Size	Description	Suggested Use
LUB WP4004	4 L	Biodegradable Citrus Cleaner / Degreaser	Cleans Equipment & Ferrous (iron) metal surfaces, machinery, tools, motors, concrete. Cleans & Deodorizes garbage containers. Removes oil, grease, smoke stains, tar, ink. Not for vehicle surfaces
LUB WP4020	20 L		

**WESTWARD PARTS**  
S E R V I C E S L T D

**WP50**

☐ 4 L      ☐ 20L

**Alkaline Cleaner  
Concentrate**

Manufactured for Westward Parts Services Ltd.  
Made in Canada

Part no.	Size	Description	Suggested Use
LUB WP5004	4 L	Industrial Strength Biodegradable Alkaline Cleaner / Degreaser	Easily cleans most plastic, rubber, porcelain, concrete and metal surfaces. Use as a multi-purpose pre-spray cleaner on most surfaces. Cleans oil, grease, carbon, bug residue. Very strong aggressive heavy duty degreaser
LUB WP5020	20 L		

**WESTWARD PARTS**  
S E R V I C E S L T D

**WP51**

☐ 4 L      ☐ 20L

**Liquid Vehicle  
Wash Concentrate**

Manufactured for Westward Parts Services Ltd.  
Made in Canada

Part no.	Size	Description	Suggested Use
LUB WP5104	4 L	Biodegradable Vehicle Wash Concentrate	Removes road film & dirt without brushing and also cleans bug residue and carbon stains from painted vehicle surfaces of all types - cars, trucks, recreational vehicles, tractors.
LUB WP55120	20 L		

**NOTE: FOR APPLICATION GUIDE ON CHEMICALS SEE PAGE 7-10**

## Pressure Washer Accessories

Soil type	Product Selection		
	40	50	51
Carbon	*	*	*
Coal Dust	*	*	
Crude Oil		*	
Diesel	*	*	
Dirt	*		*
Exhaust	*		*
Grease	*	*	
Ink	*	*	
Mud			*
Oil	*	*	
Road Film			*
Smoke	*	*	
Soot	*	*	
<b>Surface Type</b>			
Aluminum		*	*
Bricks/Concrete	*	*	*
Const. Equip.	*	*	
Farm Equipment	*		
Metal/Iron		*	
Oil Field Equip		*	
Painted Steel	*		*
Stainless Steel	*	*	*
Vehicles	*		*
<b>Application</b>			
H.P. Wash Cold	*	*	*
H.P. Wash Hot	*		*
Pre-Spray		*	
Wipe/Brush		*	

### PRODUCT INDEX

- 40** - Biodegradable Citrus Cleaner / Degreaser  
- removes organic soils such as oil & grease
- 50** - Industrial Strength Alkaline Cleaner / Degreaser  
- removes organic soils - oil, grease, carbons, inks, fuels
- 51** - Vehicle Wash Concentrate  
- removes organic soils such as road film, dirt, carbon

**CLEAN THAT EQUIPMENT FAST  
AND EFFICIENTLY WITH A  
WESTWARD PARTS  
PRESSURE WASHER**



**GAS OR ELECTRIC**

**SEE PAGE 7-1 AND 7-3 FOR PRESSURE  
WASHERS**

**Westward Pressure Washer Pumps and Parts**

**TO FIT WSS2005E  
PUMP ASSEMBLY.....**  
**PUMP ONLY.....**

PART NO.
SPP 70189
SPP 70190

**Specifications:**

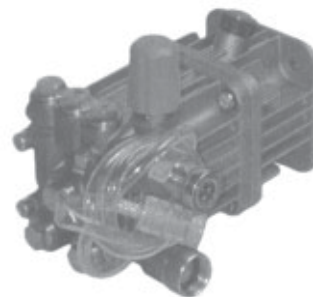
- 2.7 GPM
- 5 HP
- 3400 RPM
- 2000 PSI
- 3/4" Hollow Shaft

**PUMP REPAIR KITS**

PART NO.	DESCRIPTION
SPP 70960	Seal Kit
SPP 70961	Valve Kit

**AXD3020G**

Axial radial pump, direct mount. Built-in unloader & soaper. Fits most gas engines with 3/4" round shaft: Briggs & Stratton, Honda, Kawasaki, Kohler, Kubota, & Yamaha



**TO FIT WSSE1015 AND WSSE1520  
PUMP ASSEMBLY.....**  
**PUMP ONLY.....**

PART NO.
SPP 70191
SPP 70192

**Specifications:**

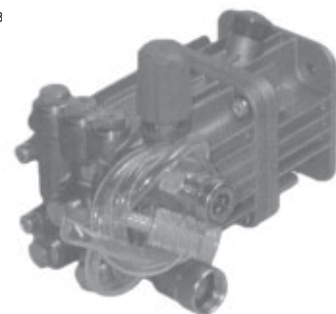
- 2.0 GPM
- 1.5 HP
- 3400 RPM
- 2000 PSI
- 5/8" Hollow Shaft

**PUMP REPAIR KITS**

PART NO.	DESCRIPTION
SPP 70960	Seal Kit
SPP 70961	Valve Kit

**AXD2020E**

Axial radial pump, direct mount. Built-in unloader & soaper. Fits most electric motors with 5/8" round shaft: Baldor



**TO FIT WSS2055  
PUMP ASSEMBLY.....**  
**PUMP ONLY.....**

PART NO.
SPP 70193
SPP 70194

**Specifications:**

- 3.0 GPM
- 5.5 HP
- 3400 RPM
- 2000 PSI
- 3/4" Hollow Shaft

**PUMP REPAIR KITS**

PART NO.	DESCRIPTION
SPP 70962	Seal Kit
SPP 70965	Valve Kit

**LWDK3020G**

Triplex ceramic plunger pump, direct mount, built-in unloader and soaper. Fits most gas engines with 3/4" round shaft: Briggs & Stratton, Honda, Kawasaki, Kohler, Kubota, & Yamaha



**TO FIT WSS3011  
PUMP ASSEMBLY.....**  
**PUMP ONLY.....**

PART NO.
SPP 70195
SPP 70196

**Specifications:**

- 4.0 GPM
- 11 HP
- 3400 RPM
- 3000 PSI
- 1" Hollow Shaft

**PUMP REPAIR KITS**

PART NO.	DESCRIPTION
SPP 70964	Seal Kit
SPP 70965	Valve Kit

**ZWD4030G**

Triplex ceramic plunger pump, direct mount. Fits most gas engines with 1" round shaft: Briggs & Stratton, Honda, Kawasaki, Kohler, Kubota, & Yamaha



PART NO.	DESCRIPTION
74225	1 litre (UTFH) oil

**NOTE: FOR ALL WESTWARD PRESSURE WASHER PUMPS RECOMMENDED OIL IS UNIVERSAL TRANSMISSION FLUID HEAVY (UTFH).**

**SEE PARTS BREAKDOWN PAGE 7-35 THROUGH 7-40**



**Westward Pressure Washer Parts**

**MALE SOCKET**



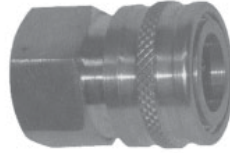
1/4" NPT 74226  
 3/8" NPT 74227  
 1/2" NPT 74591

**O-RINGS FOR FEMALE COUPLERS**



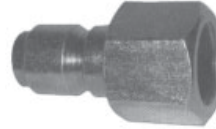
74228  
 74229  
 74232

**FEMALE SOCKET**



78118  
 78119  
 78120

**FEMALE PLUG**



78121  
 78122  
 78123

**MALE PLUG**



78124  
 78125  
 78126

**COMPONENTS FOR ALL WESTWARD PRESSURE WASHERS**

Coupler  
 74226 or  
 78118



**TIPS**

PART NO.	DESCRIPTION
70975	Red tip (2005E, E1015, E1520, 2055)
70976	Yellow tip (2005E, E1015, E1520, 2055)
75594	Green tip (optional)( 2005E, E1015, E1520, 2055)
70977	White tip (2005E, E1015, E1520, 2055)
70978	Black soaper nozzle (all units)
70979	Red tip (3011)
70980	Yellow tip (3011)
75595	Green tip (optional) 3011
70981	White tip (3011)

PART NO.	DESCRIPTION
74238	Grommet to hold nozzles in place on the cart

PART NO.	DESCRIPTION
73645	Filter screen washer (2005E, E1015E, E1520, 2055)
70967	Water inlet filter (3011)



**74238**

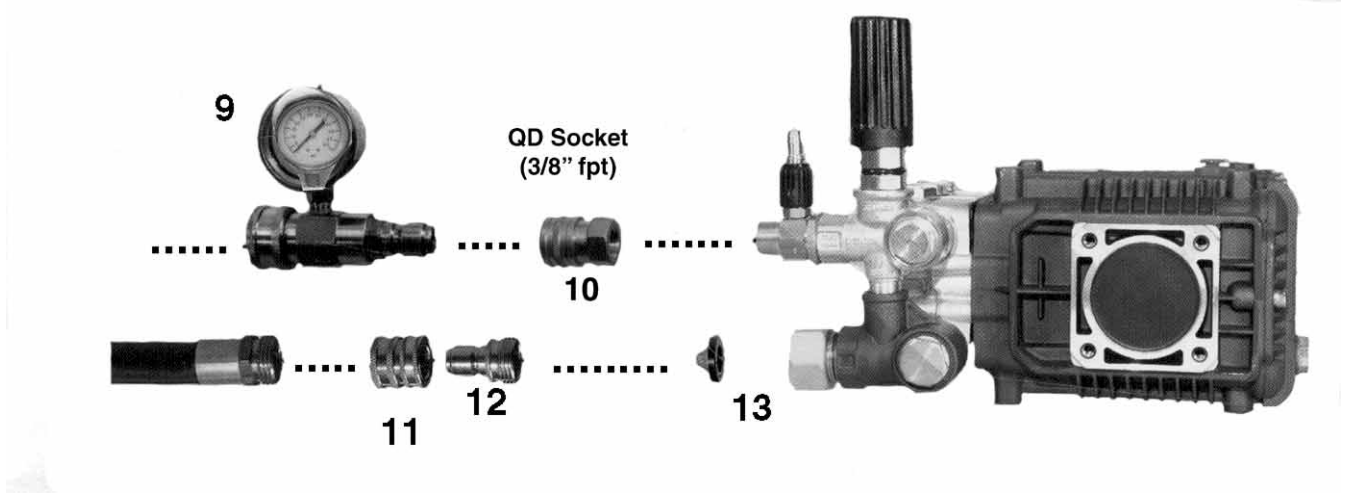
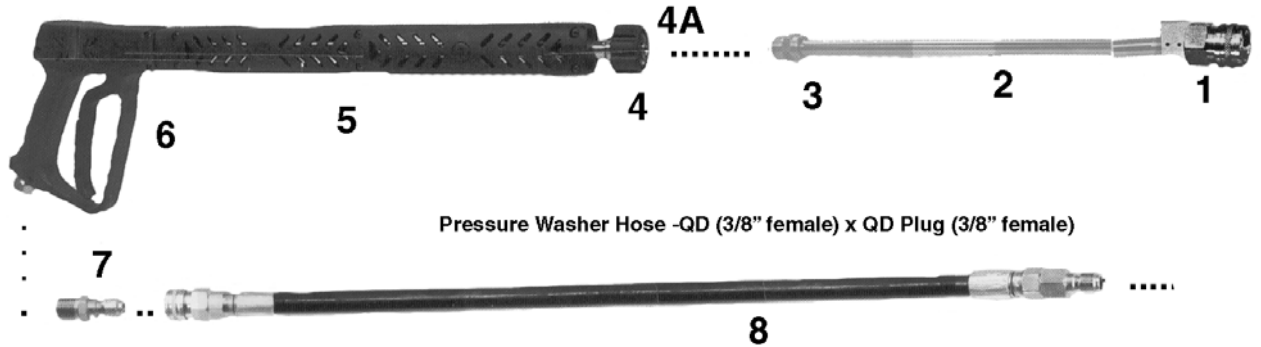


**73645**



**70967**

**Components for all Westward Pressure Washers**



Reference No.	Part No.	Description
1	78118	Quick Coupler (see Page 7-12) (all models)
2	78075	1/4" x 24" Plated Lance (2005E, E1015E, E1520, 2055)
2	78080	1/4" x 36" Plated Lance with molded grip (3011)
3	78096	1/4" Female x M22 Male (Screw type disconnect fitting) (all models except 3011)
4	78090	1/4" Female x M22 Female (screw type disconnect fitting) (all models except 3011)
4A	77839	O-Ring Kit
5	75006	12" Insulated wand (all models except 3011)
6	78105	Handgun (all models except 3011)
6	78083	Handgun (3011)
7	78125	3/8" MNPT Plug (optional)
8	70982	30 ft. high pressure hose c/w 3/8" plug & 3/8" coupler
8	70983	50 ft. high pressure hose c/w 3/8" plug & 3/8" coupler
8	78038	75 ft. high pressure hose c/w 3/8" plug & 3/8" coupler
8	78039	100 ft. high pressure hose c/w 3/8" plug & 3/8" coupler
9	78058	5000 PSI Gauge Kit (optional)
10	78119	3/8" Female Coupler
11	75139	Female Garden Hose Quick Coupler (Low Pressure) Brass
12	75138	Male Garden Hose Plug (Low Pressure) Brass
13	73645	Filter Screen

**PUMPS SEE PAGE 7-11**

**Components for all Westward Pressure Washers**

PART NO.	DESCRIPTION
70968	Soap hose Assembly
78088	Soap suction filter



**70968**

**78088**



PART NO.	DESCRIPTION
75596	Garden Hose adapter assembly 3/8"
70969	Garden Hose adapter assembly 1/2"
75597	3/8" thermal valve
75234	3/8" thermal valve
75235	1/2" thermal valve
70970	1/2" thermal valve (2055)



**75234**  
**75235**



**70969**  
**75596**



**70970**  
**75597**

**GARDEN HOSE QUICK COUPLER**

PART NO.	REPLACES	DESCRIPTION
HYD 1163	73800	Brass GHT (3/4" quick coupler)
SPP 75138	73801	Male brass end only for above
SPP 75139	73802	Female brass end for above
HYD 4730001	73803	Gasket only for above



PART NO.	DESCRIPTION
70971	E-Z start unloader valve (3011)
70972	Repair kit for 70971
70973	Seal kit for 70971
75598	Plastic handle

**70971**



PART NO.	DESCRIPTION
70974	Bypass hose (3011) (not shown)
75027	5000 PSI gauge (3011)(not shown)

**E-Z Start Valve**

INLET 3/8" MNPT  
 OUTLET 1/4" Hose barb



**PART NO.**  
**75236**

**Cold Water High Pressure Hose Assembly**

MAX PRESSURE	MAX TEMP	COLOR	SIZE
3000 PSI	200°F	Black	3/8"

PART #	DESCRIPTION	LENGTH	WEIGHT
70982	1 wire braid with brass couplers	30'	6.14 lbs.
70983	1 wire braid with brass couplers	50'	10.24 lbs.
78038	1 wire braid with brass couplers	75'	14.34 lbs.
78039	1 wire braid with brass couplers	100'	18.68 lbs.



**Hot Water High Pressure Hose Assembly**

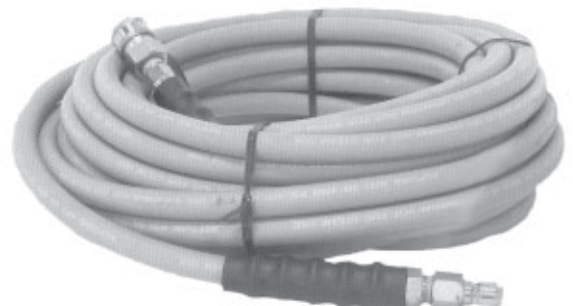
MAX PRESSURE	MAX TEMP	COLOR	SIZE
5000 PSI	200°F	Black	3/8"

PART #	DESCRIPTION	LENGTH	WEIGHT
75225	2 wire braid with brass couplers	50'	15.56 lbs.



**Non Marking Hose Assembly**

PART #	DESCRIPTION	MAX PRESSURE	MAX. TEMP.	LENGTH	SIZE	COLOR	WEIGHT
75226	1 wire braid with brass couplers	3000 PSI	300°F	50'	3/8"	Blue	9.92 lbs.
75227	1 wire braid with brass couplers	4000 PSI	250°F	50'	3/8"	Grey	11.44 lbs.

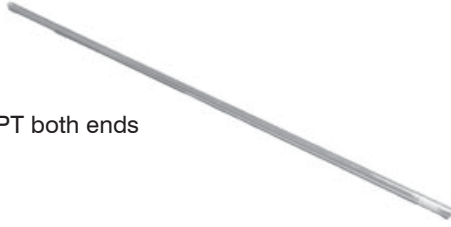


## High Pressure Wand

### ST 003 LANCES

Pressure: 4000 PSI  
 Flow Rate: 12 US gpm  
 Temperature: 300°F  
 SCH 80 Aluminum 1/4" MPT both ends

PART NO.	SIZE
SPP 78074	18"
SPP 78075	24"
SPP 78076	36"
SPP 78077	47"
SPP 75007	59"
SPP 75012	72"
SPP 75013	79"



### ST 54 DOUBLE-LANCE

Pressure: 3000 PSI  
 Flow Rate: 12 gpm  
 Temperature: 300°F  
 Less Tips

PART NO
SPP 78102

### ST 2500

Easy trigger operation and light to hold

Pressure: 4000 PSI  
 Flow Rate: 12 gpm  
 Temperature: 300°F  
 Weight: 19 oz.  
 3/8" FPT inlet  
 1/4" FPT outlet

PART NO
SPP 78084

REPAIR KIT
SPP 78128



### ST 810

Pressure: 2150 PSI  
 Flow Rate: 7 gpm  
 Temperature: 210°F  
 Weight: 19 oz.  
 3/8" FPT inlet  
 1/4" FPT outlet  
 Fits Westward Pressure Washers  
 (except 3011)

PART NO
SPP 78105

REPAIR KIT
SPP 78129



### MTM LOW PRESSURE SPRAY GUN

Max Pressure: 350 PSI  
 Max Flow Rate: 26 US gpm  
 Max Temperature: 200°F  
 1/2" FNPT inlet  
 Garden Hose Spray outlet

PART NO
SPP 75048



### ST 007 LANCES WITH MOLDED GRIPS

Pressure: 4000 PSI  
 Flow Rate: 12 US gpm  
 Temperature: 300°F  
 Plated Steel 1/4" MPT both ends

PART NO.	SIZE
SPP 78078	18"
SPP 78079	24"
SPP 78080	36"
SPP 78081	47"
SPP 74219	59"
SPP 74224	79"



### LANCE HANDLE

Fits on any standard pressure washer lance for extra hold.

PART NO
SPP 75204



### ST 1000 GUN HANDLE

Open Flow Design with no trigger

Pressure: 4000 PSI maximum  
 Flow Rate: 12 gpm maximum  
 Temperature: 300°F  
 3/8" FPT inlet  
 1/4" FPT outlet

PART NO
SPP 78082



### ST 1500 GUN

Pressure: 4000 PSI  
 Flow Rate: 7 gpm  
 Temperature: 300°F  
 3/8" FPT inlet  
 1/4" FPT outlet  
 Fits Westward 3011 Pressure Washers

PART NO
SPP 78083

REPAIR KIT
SPP 78127



### PA VEGA SPRAY GUN

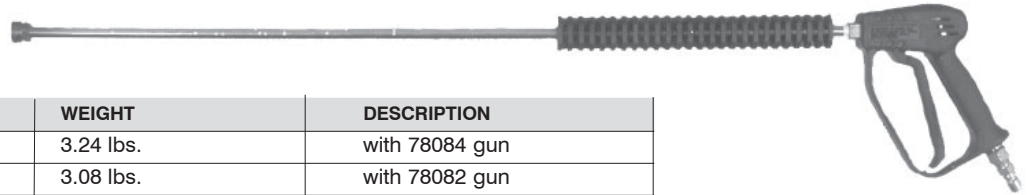
Max Pressure: 5000 PSI  
 Max Flow: 8 gpm  
 Temperature: 300°F  
 3/8" FNPT inlet  
 1/4" FNPT outlet

PART NO
SPP 75045



**Pressure Washer Wands**

Complete assemblies of gun and wands with quick disconnect couplers.  
(#78118 1/4 Female Coupler and #78125 3/8 Male Coupler)



PART NO.	LENGTH	WEIGHT	DESCRIPTION
75205	36"	3.24 lbs.	with 78084 gun
75209	36"	3.08 lbs.	with 78082 gun
75219	47"	4.36 lbs.	with 78082 gun
75222	59"	4.64 lbs.	with 78082 gun
75223	79"	5.20 lbs.	with 78082 gun

The ideal kit for use with little electric hobby plastic pressure washers.

**SPECIFICATIONS**

Weight 6.0 lbs

**COMPONENTS**

- Front load gun (2700 PSI)
- Split lance
- M22 coupler
- Vari-Nozzle #3
- 24' x 1/4" hose (3000 PSI)



PART NO
75224

**1/8 DT Tips for Wands**



Part numbers listed are with 40° spray angle. Also available in 15°, 25°, 50°, 65°, 80° and 95° spray angles. Brass nozzles and solid stream nozzles are also available in all capacity sizes shown.

PART NO.	REPLACES	MATERIAL	40 PSI	100 PSI	200 PSI	GPM AT PSI BASED ON WATER						
						300 PSI	400 PSI	500 PSI	600 PSI	700 PSI	800 PSI	1000 PSI
72628	H-1/8DTSS 40-04	Stainless steel	.40	.63	.89	1.1	1.3	1.4	1.6	1.7	1.8	2.0
72629	H-1/8DTSS 40-06	Stainless steel	.60	.95	1.3	1.6	1.9	2.1	2.3	2.5	2.7	3.0
72630	H-1/8DTSS 40-09	Stainless steel	.90	1.4	2.0	2.5	2.9	3.2	3.5	3.8	4.0	4.5
72632	H-1/8DTSS 65-09	Stainless steel	.90	1.4	2.0	2.5	2.9	3.2	3.5	3.8	4.0	4.5

**High Pressure Wand**

- Pressure molded handle
- Continuous 1/8" steel barrel

PART NO.	REPLACES	DESCRIPTION
74485	5271406	18" galvanized wand



**WashJet Spray Nozzles • High Impact Spray - Small Capacity**
**DESIGN FEATURES**

MODEL MEG/WEG WashJet high pressure spray nozzles operate at pressures from 300 to 4000 PSI (20 to 275 bar) and feature a high impact solid stream (0°) or flat spray pattern with spray angles of 5° to 65°.

WashJet nozzles produce a uniform spray distribution of medium-sized drops.

An internal guide vane stabilizes liquid turbulence to provide maximum spray integrity and impact.

Milled flats are parallel to the plane of the spray pattern to provide a quick visual reference for spray alignment.

Specially hardened stainless steel construction provides longer wear life and flow control accuracy.

**ORDERING INFORMATION**
**STANDARD SPRAY NOZZLE**
**1/4 MEG -15 04**

Inlet	Nozzle	Spray	Capacity
Conn.	Type	Angle	Size

**MEG 1/4" NPT**


1/4 MEG						
*00	5	15	25	40	50	65
Spray Angle						

Part No.	Description	Capacity Size	Capacity (gallons per minute)										
			300 PSI	400 PSI	500 PSI	600 PSI	700 PSI	800 PSI	1000 PSI	1500 PSI	2000 PSI	2500 PSI	3000 PSI
78131	1/4 MEG 1506	01	.28	.32	.36	.39	.42	.45	.50	.60	.70	.80	.85
*78155	1/4 MEG 0004	015	.41	.47	.53	.58	.63	.68	.75	.90	1.1	1.2	1.3
*78156	1/4 MEG 00045	02	.55	.63	.71	.77	.84	.89	1.0	1.2	1.4	1.6	1.7
*78133	1/4 MEG 0005	025	.70	.80	.90	.97	1.0	1.1	1.3	1.5	1.8	2.0	2.2
*78157	1/4 MEG 00055	03	.82	.95	1.1	1.2	1.3	1.4	1.5	1.8	2.1	2.4	2.6
*78130	1/4 MEG 0006	035	.98	1.1	1.3	1.4	1.5	1.6	1.8	2.2	2.5	2.8	3.1
*78158	1/4 MEG 00065	04	1.1	1.3	1.4	1.6	1.7	1.8	2.0	2.5	2.8	3.2	3.5
*78159	1/4 MEG 0007	045	1.2	1.4	1.6	1.7	1.9	2.0	2.3	2.8	3.2	3.6	3.9
*78160	1/4 MEG 0008	05	1.4	1.6	1.8	1.9	2.1	2.2	2.5	3.1	3.5	4.0	4.3
78109	1/4 MEG 2504	055	1.5	1.7	1.9	2.1	2.3	2.5	2.8	3.4	3.9	4.3	4.8
78110	1/4 MEG 2504.5	06	1.6	1.9	2.1	2.3	2.5	2.7	3.0	3.7	4.2	4.7	5.2
78111	1/4 MEG 2505	065	1.8	2.1	2.3	2.5	2.7	2.9	3.3	4.0	4.6	5.1	5.6
78112	1/4 MEG 25055	07	1.9	2.2	2.5	2.7	2.9	3.1	3.5	4.3	4.9	5.5	6.1
78113	1/4 MEG 2506	075	2.1	2.4	2.7	2.9	3.1	3.4	3.8	4.6	5.3	5.9	6.5
78114	1/4 MEG 25065	08	2.2	2.5	2.8	3.1	3.4	3.6	4.0	4.9	5.7	6.3	6.9
78115	1/4 MEG 2507	085	2.3	2.7	3.0	3.3	3.6	3.8	4.3	5.2	6.0	6.7	7.4
78116	1/4 MEG 25075	09	2.5	2.9	3.2	3.5	3.8	4.0	4.5	5.5	6.4	7.1	7.8
78117	1/4 MEG 2508	095	2.6	3.0	3.4	3.7	4.0	4.2	4.8	5.8	6.7	7.5	8.2
For other size tips, consult ordering information table * 00 = Solid Stream		10	2.7	3.2	3.5	3.9	4.2	4.5	5.0	6.1	7.1	7.9	8.7
		11	3.0	3.5	3.9	4.3	4.6	4.9	5.5	6.7	7.8	8.7	9.5
		115	3.1	3.6	4.1	4.5	4.8	5.1	5.8	7.0	8.1	9.1	10.0
		12	3.3	3.8	4.2	4.6	5.0	5.4	6.0	7.3	8.5	9.5	10.4
		125	3.4	4.0	4.4	4.8	5.2	5.6	6.3	7.7	8.8	9.9	10.8
		13	3.6	4.1	4.6	5.0	5.4	5.8	6.5	8.0	9.2	10.3	11.3
		14	3.8	4.4	4.9	5.4	5.99	6.3	7.0	8.6	9.9	11.1	12.1
		15	4.1	4.7	5.3	5.8	6.3	6.7	7.5	9.2	10.6	11.9	13.0

**25° Spray Tips 1/4" Male and Female Pipe Thread**



**Tips/Nozzles**

Nozzles restrict water flow sufficiently to develop the required pressure. Nozzle size therefore influences the pressure and flow rate. Nozzles also break the liquid flow into optimum sized droplets, form the spray pattern and propel the droplets in the proper direction.

Note: Flow through an orifice will gradually make the hole bigger resulting in lower pressure. Frequently users will complain that their high pressure cleaner does not perform as well as before when in fact all it requires is the correct size nozzle.

**NOZZLE VOLUME (GPM) AT VARIOUS PRESSURES (PSI) WEG FEMALE, MEG MALE**

Female Part No.	Male Part No.	Nozzle Size	Orifice Dia. (in)	40 PSI	100 PSI	250 PSI	500 PSI	600 PSI	700 PSI	800 PSI	1000 PSI	1200 PSI	1500 PSI	2000 PSI	2500 PSI	3000 PSI	3500 PSI	4000 PSI
78892	78109	4.0	0.052	0.40	0.63	1.0	1.4	1.6	1.7	1.8	2.0	2.2	2.5	2.8	3.1	3.5	3.8	4.0
78889	78110	4.5	0.055	0.45	0.71	1.1	1.5	1.7	1.9	2.0	2.2	2.4	2.8	3.0	3.6	3.9	4.3	4.5
78893	78111	5.0	0.057	0.50	0.79	1.3	1.8	1.9	2.1	2.2	2.5	2.8	3.1	3.6	4.0	4.4	4.7	5.0
78894	78112	5.5	0.060	0.55	0.87	1.4	1.9	2.1	2.3	2.5	2.8	3.0	3.4	3.8	4.4	4.8	5.2	5.5
78895	78113	6.0	0.062	0.60	0.95	1.5	2.1	2.3	2.5	2.7	3.0	3.2	3.7	4.2	4.8	5.2	5.6	6.0
78896	78114	6.5	0.064	0.65	1.00	1.7	2.3	2.5	2.7	2.9	3.3	3.6	4.0	4.6	5.2	5.7	6.0	6.5
78897	78115	7.0	0.067	0.70	1.10	1.8	2.5	2.7	2.9	3.1	3.5	3.8	4.3	5.0	5.6	6.1	6.6	7.0
78898	78116	7.5	0.070	0.75	1.20	1.9	2.7	2.9	3.2	3.4	3.8	4.1	4.6	5.3	6.0	6.5	7.0	7.5
78899	78117	8.0	0.072	0.80	1.30	2.0	2.8	3.1	3.4	3.6	4.0	4.4	5.0	5.6	6.2	7.0	7.5	8.0

\* A commonly used standard for nozzle size is the nozzle number which is equivalent to the nozzle capacity in GPM at 4000 PSI. Spray angle does not affect nozzle volume.

**Brass Wand Couplers and Plugs**

**FEMALE COUPLER X MPT**



1/4" NPT  
3/8" NPT  
1/2" NPT

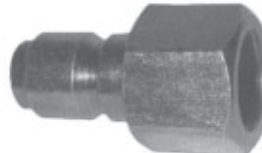
74226  
74227  
74591

**FEMALE SOCKET**



78118  
78119  
78120

**FEMALE PLUG**

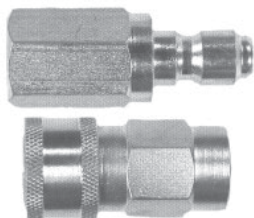


78121  
78122  
78123

**MALE PLUG**



78124  
78125  
78126



PART NO.	SIZE	DESCRIPTION
78029	1/4"	Stainless-Steel Plug
78037	1/4"	Brass w/Stainless Sleeve Coupler

Longer body for greater strength.

**FEMALE PIPE CONNECTOR**

PART NO. (STEEL)	PIPE THREAD	
	T1	T2
HYD 0202-4X4	1/4 x 18	1/4 x 18



**O-RINGS FOR FEMALE COUPLERS**

PART NO.	DESCRIPTION
74228	1/4" O-Ring
74229	3/8" O-Ring
74232	1/2" O-Ring

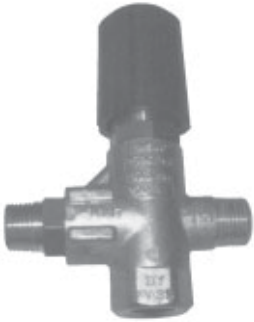


**Pressure Washer Accessories**

**MV550, ST 261 UNLOADER VALVE**

Pressure: 3500 PSI  
 Flow Rate: 8 gpm  
 Temperature: 200°F  
 Forged brass housing  
 Stainless steel stem & seat  
 Viton seals  
 1/4" gauge port  
 3/8" FPT inlet and outlet  
 1/4" FPT bypass

PART NO.	DESCRIPTION
78085	ST261 Unloader
70972	Repair kit
70973	Seal kit
75015	Plastic Handle


**MV540, ST 270 UNLOADER VALVE**

Pressure: 2300 PSI  
 Temperature: 176°F  
 Flow Rate: 8 gpm  
 3/8" MPT inlet and outlet  
 3/8" FPT bypass

PART NO.	DESCRIPTION
78086	ST270 unloader
78881	Repair kit
75028	Plastic Handle


**ST 280 UNLOADER VALVE**

Pressure: 4200 PSI  
 Temperature: 190°F  
 Flow Rate: 7.8 GPM  
 3/8" inlet & outlet  
 3/8" bypass

PART NO.	DESCRIPTION
78087	ST280 unloader
74236	Repair kit


**MV 595**

**MV 595B**
**MV 595/595B "E-Z START" UNLOADER**

Comes with built-in thermal valve (145°F) and safety valve.

**SPECIFICATIONS**

Max Pressure 4000 PSI  
 Max Temperature 140°F  
 Max Flow 8.0 GPM  
 Inlet/Outlet 3/8" MNPT  
 Bypass 1/4" FNPT

PART NO.	DESCRIPTION
70972	Repair Kit
75197	Plastic Handle
70973	Seal Kit
75037	595:3/8" FNPT
75196	595B:3/8" MNPT

**Pressure Washer Accessories**



**MV 590 E-Z START UNLOADER**

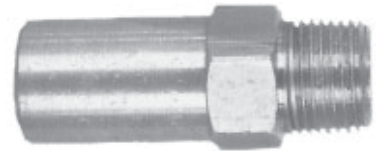
Pressure: 3600 PSI  
Temperature: 140°F  
Flow Rate: 8 gpm  
3/8" inlet & outlet MPT  
3/8" bypass

PART NO.	DESCRIPTION
70971	590 E-Z start
70972	Repair kit
70973	Seal kit
75598	Plastic Handle

**SAFETY RELIEF VALVE**

Max Pressure: 6000 PSI  
Max Temperature: 195°F  
Max Flow: 6.0 GPM  
Inlet: 3/8" MNPT

PART NO.
75233



**General Pump Accessories**



**W-TYPE AUTOMATIC PRESSURE REGULATOR**

PART NO.	MODEL	DESCRIPTION
78835	W1	0 to 1600 PSI W-Type automatic pressure regulator with built-in chemical injector and by-pass tube <ul style="list-style-type: none"> <li>• Sized for direct mount on to most general pumps</li> <li>• Saves space and plumbing</li> <li>• Maximum pressure can be pre-set</li> </ul>



**ST 31R SOAP SUCTION FILTER**

PART NO.	DESCRIPTION
78088	ST31R soap suction filter



**PRESSURE GAUGES**  
1/4" MPT - GLYCERIN FILLED -  
2 1/2" DIA. FACE BRASS STEM

PART NO.	DESCRIPTION
75021	0-100 PSI
77536	0-200 PSI
77537	0-300 PSI
75022	0-400 PSI
75023	0-600 PSI
75024	0-1000 PSI
75025	0-1500 PSI
75026	0-2000 PSI
78377	0-3000 PSI
75027	0-5000 PSI



**ST 35R SUCTION FILTER WITH CHECK VALVE**

PART NO.	DESCRIPTION
78089	ST35R suction filter

## Pressure Washer Accessories



### LONG WAND SPRAY GUN

Super reinforced nylon industrial material  
 Pressure: 4000 PSI  
 Temperature: 300°F  
 Max Flow: 7 gpm  
 Outlet: 1/4" FPT  
 Inlet: 3/8" FPT

PART NO.	DESCRIPTION
74239	Long wand gun (no wand)
74240	Repair kit



74241

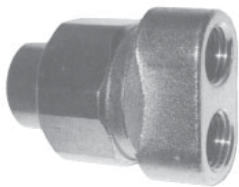
### INLINE WATER FILTER FOR ROTARY NOZZLE

Increases the working life of the rotary nozzle  
 Pressure: 5000 PSI  
 Temperature: 212°F  
 Max Flow: 8 gpm

PART NO.	DESCRIPTION
74241	Water filter 1/4 QC
75202	Water filter 1/4 FNPT



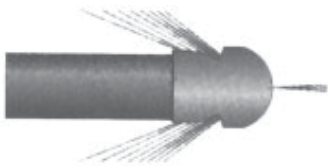
75202



### DOUBLE NOZZLE HOLDER

Stainless Steel  
 Pressure: 3000 PSI  
 Temperature: 140°F  
 Max Flow: 7 gpm  
 Inlet: 1/4" FPT  
 Outlet: 1/4" FPT x 2

PART NO.	DESCRIPTION
78161	Double nozzle holder



### DRAIN CLEANING NOZZLE

PART NO.	NPT	US GPM	PSI
74242	1/8"	2.2 - 4.5	1500
74243	1/8"	4.0 - 8.3	3000
74244	1/4"	2.2 - 4.5	1500
74245	1/4"	3.0 - 5.5	3000



### GUTTER CLEANER

- Turns wands into efficient gutter cleaners, so gutters can be cleaned from the ground
- 3000 PSI
- Complete with female & male quick coupler
- Plated 1/4" tube

PART NO.
78359



### FLEX WAND

- 3000 PSI
- 210°F
- 1/4" MPT, 1/4" FPT
- Not good for steam

PART NO.	DESCRIPTION
78360	12" long
75031	20" long



**Water Inlet Filter**



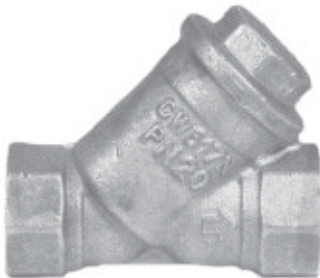
<b>PART NO.</b>
SPP 75237

Protects the pump from contaminants in the water. Cap easily unscrews with a spanner wrench to clean out screen.

**COMPONENTS**

- 5" housing
- 25 micron filter cartridge
- Mounting bracket
- Spanner wrench

**Inlet Strainer**



Protects the system from contaminants in the water.

Max Pressure	175 PSI
Max Flow	16.0 GPM
Inlet/Outlet	FNPT
Screen	#50

PART NO.	DESCRIPTION
SPP 75238	1/2" FNPT
SPP 75239	3/4" FNPT

**Tap with Float (Brass)**

Protects pump by maintaining a constant flow by monitoring water level in a reservoir. Economical and low maintenance.



PART NO.	DESCRIPTION
SPP 75252	3/4" MNPT

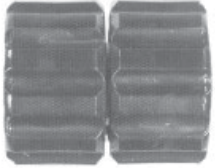
## Pressure Washer Accessories



### SCREW-TYPE QUICK DISCONNECT FITTING

- Insulated knob
- Female Fitting
- Fits Karcher
- Stainless steel/brass

PART NO.	DESCRIPTION
78090	1/4" female
78092	3/8" female
78094	1/2" female
77839	O-Ring Kit



- Insulated knob
- M22F x M22F

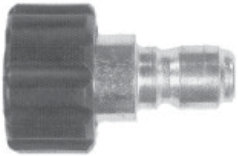
PART NO.	DESCRIPTION
78026	M22 Female x M22 Female
77839	O-Ring Kit



### SCREW-TYPE QUICK DISCONNECT FITTING

- Insulated knob
- Male fitting
- Fits Karcher
- Brass

PART NO.	DESCRIPTION
78091	1/4" male
78093	3/8" male
78095	1/2" male



- Insulated knob
- Stainless Steel
- M22 x 3/8" Quick-Connect

PART NO.	DESCRIPTION
78207	M22 Female x 3/8" Plug
77839	O-Ring Kit



### SCREW-TYPE DISCONNECT FITTING

- Female inlet
- Fits Karcher M22 Male
- Brass

PART NO.	DESCRIPTION
78096	1/4" female
78098	3/8" female
78100	1/2" female



### SCREW-TYPE DISCONNECT FITTING

- Male inlet
- Fits Karcher M22 Male
- Brass

PART NO.	DESCRIPTION
78097	1/4" male
78099	3/8" male
78101	1/2" male



### ST 61 METERING VALVE

PART NO.	DESCRIPTION
78103	ST61 metering valve

**Pressure Washer Accessories**



**WATER INLET FILTER**

Pressure: 170 PSI  
Temperature: 200°F  
Max Flow: 10 gpm  
Outlet: 1/2" FPT  
Inlet: 1/2" MPT

PART NO.
70967



**HEAVY DUTY WET SANDBLASTER**

Min. Working Pressure: 1500 PSI  
00 Blast Pattern: 10000 PSI  
150 Blast Pattern: 3500 PSI  
Min. Flow: 3 gpm  
Max. Flow: 10 gpm  
Note: 0° Megnozzle not included

PART NO.
78865



**WATER SUCTION KIT**

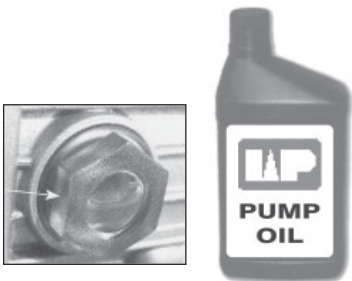
PART NO.	REPLACES	DESCRIPTION
78866	WW20-152	Make yourself completely mobile with the WW20-152. Draw water from a pond, creek, lake or even drums of water. Comes complete with garden hose fittings, 25' HD 3/4 hose, suction strainer and check valve



**SAND BLAST KIT**

Max PSI: 3500 PSI  
Max Flow: 10 US GPM

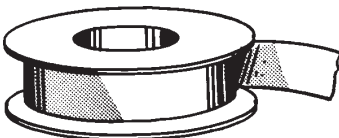
PART NO.
78059



**PUMP OIL**

- Non-detergent, non-foaming
- Specially formulated and rated for superior rust protection and oxidation protection
- Ideal for high pressure pumps. Not for use in engine.
- Universal Transmission Fluid Heavy (UTFH)  
\*Change oil after the first 50 hours of operating time, then every 3 months or as needed.
- Fill oil half-way on the indicator site glass only. Do not over-fill. See Picture.

PART NO.	DESCRIPTION
74225	1 litre (UTFH)



**TEFLON TAPE**

1/2" x 480" (per roll)

PART NO.	DESCRIPTION
HYD 1102	Single roll
HYD 1102-50	Case of 50
HYD 1102C	Case of 200

**Pressure Washer Accessories**



**LOW PRESSURE SOAPER KIT**

Flow: 3 - 5 gpm

PART NO.	DESCRIPTION
78056	Low pressure soaper kit



**HIGH PRESSURE SOAPER KIT**

- Placed on the inlet side
- Max PSI 3500.

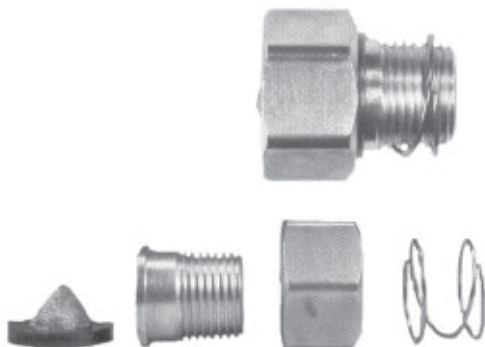
PART NO.	DESCRIPTION
78057	High pressure soaper kit



**5000 PSI GAUGE KIT**

- Stainless Steel
- 2 1/2" face
- Inlet - 3/8" male QD
- Outlet - 3/8" female QD

PART NO.	DESCRIPTION
78058	Gauge kit



- Brass
- Stainless steel spring
- Stainless steel filter mesh

PART NO.	DESCRIPTION
75596	3/8" x GHT Swivel Adapter
70969	1/2" x GHT Swivel Adapter



PART NO.	DESCRIPTION
75053	Brass M20 Male x GHT Female

**Pressure Washer Accessories**



**ADJUSTABLE SOAP INJECTOR**

Pressure: 3200 PSI  
Temperature: 200°F  
Max Flow: 3 - 5 gpm  
Outlet: 3/8" MPT  
Inlet: 3/8" MPT

PART NO.
74248



**ADJUSTABLE SOAP INJECTOR**

Pressure: 3200 PSI  
Temperature: 200°F  
Max Flow: 3 - 5 gpm  
Outlet: 3/8" MPT  
Inlet: 3/8" FPT

PART NO.
78104



Max PSI: 4000 PSI  
Flow: 3-5 GPM  
Max Temp.: 200°F  
Outlet: 3/8" "Q-C" Coupler  
Inlet: 3/8" "Q-C" Plug

PART NO.
78028



**LOW PRESSURE SWIVELS**

- All brass
- Non repairable
- Pressure: 1200 PSI
- Temperature: 200°F

PART NO.	DESCRIPTION
78108	3/8" M x 3/8" F swivel
74255	1/4" M x 1/4" F swivel



**STAINLESS STEEL SWIVELS**

- Stainless steel construction
- Stainless steel insert
- Repairable
- Swivels under pressure
- Pressure: 4000 PSI
- Temperature: 200°F

PART NO.	DESCRIPTION
78106	3/8" F x 3/8" M
78107	1/4" F x 1/4" M
78888	3/8" repair kit
78890	1/4" repair kit



## Pressure Washer Accessories



### 10" TIRE & WHEEL ASSEMBLY

- 410 x 350 x 4"
- 2 ply rating
- 3.69" width of wheel shaft
- 3/4" bearings or bushings
- Complete with tube

PART NO.	DESCRIPTION
SPP 78205	Complete with 3/4" ID bearings
SPP 74592	Complete with 3/4" ID nylon bushings



### 13" TIRE & WHEEL ASSEMBLY

- 13 x 5.00 x 6"
- 2 ply rating
- 3.69" width of wheel shaft
- 3/4" ID bearings or bushing
- Complete with tube

PART NO.	DESCRIPTION
SPP 78206	Complete with 3/4" ID bearings
SPP 74593	Complete with 3/4" ID nylon bushings



### 15" TIRE & WHEEL ASSEMBLY

- 15/600 x 6"
- 2-ply rating
- 3/4" bearings
- Tubeless

PART NO.
SPP 79058



### 400 X 8 TIRE & WHEEL ASSEMBLY

- 480/400 x 8
- 4-ply rating
- Tubeless
- 4" width of wheel shaft
- 3/4" I.D. bearing

PART NO.
HUB 400X8A

### REPLACEMENT BEARINGS

PART NO.	DESCRIPTION
BEI ASF107-3	1/2" I.D. bearing
BEI ASF107-5	5/8" I.D. bearing
BEI ASF107-6	3/4" I.D. bearing



### GAS CAP

Replacement cap for all Honda GX engines.

PART NO.	DESCRIPTION
75203	Gas Cap

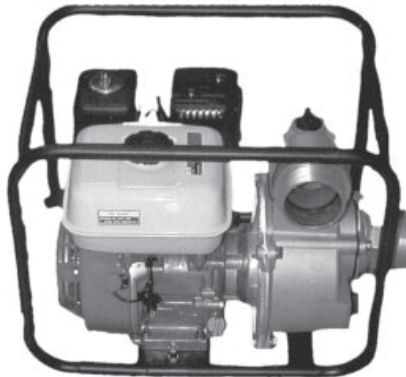
**Centrifugal Water Pumps**

**2" AND 3" HONDA POWERED WATER PUMPS**

General purpose centrifugal water pumps constructed from aluminum for performance reliability, durability, and lightweight portability. These pumps are economical and ideal for drainage and most general purpose water pumping applications including effluent.

**PART NO. WSS2040  
2" GENERAL PURPOSE PUMP**

- Engine:** 4 HP Honda "Oil Alert"
- Pump:** Centrifugal Aluminum
- Impeller:** Cast Iron
- Inlet/Outlet:** 50 mm (2")
- Max Flow:** 580 L/min, 150 Gal/min
- Max Head:** 85 feet
- Solids:** No
- Dry Weight:** 21 kg (46 lbs.)



**PART NO. WSS2050  
2" GENERAL PURPOSE PUMP**

- Engine:** 5 HP Honda (no oil alert)
- Pump:** Centrifugal Aluminum
- Impeller:** Cast Iron
- Inlet/Outlet:** 50 mm (2")
- Max Flow:** 580 L/min, 150 Gal/min
- Max Head:** 85 feet
- Solids:** No
- Dry Weight:** 22 kg (48 lbs.)

**PART NO. WSS3050  
3" GENERAL PURPOSE PUMP**

- Engine:** 5.5 HP Honda "Oil Alert"
- Pump:** Centrifugal Aluminum
- Impeller:** Cast Iron
- Inlet/Outlet:** 80 mm (3")
- Max Flow:** 980 L/min, 255 Gal/min
- Max Head:** 95 feet
- Solids:** No
- Dry Weight:** 27 kg (59 lbs.)

**PARTS BREAKDOWN SEE PAGE 9-34**

**STRAINERS SEE PAGE 3-69**



**PART NO. WSST3080  
3" TRASH PUMP**

- Engine:** 8 HP Honda GX Oil Alert
- Impeller:** Cast Iron
- Inlet/Outlet:** 80 mm (3")
- Max Flow:** 1100 L/min, 300 Gal/min
- Max Head:** 100 feet
- Max Lift:** 25 feet
- Solids:** 1" - 30mm
- Dry Weight:** 59 kg ( 130 lbs)

**PARTS BREAKDOWN SEE PAGE 9-35**

**NOTE: FOR SUCTION AND LAY FLAT HOSE SEE PAGE 5-1**

**Camlocks**

PART NO.	SIZE	MATERIAL	DESCRIPTION
74104	2"	Aluminum	Camlock Adapter
74105	3"	Aluminum	Camlock Adapter
74118	2"	Aluminum	Camlock Adapter
74119	3"	Aluminum	Camlock Adapter



## Special Purpose Nozzles

Special purpose nozzles add convenience to pressure washers...

Adjustable WashJet nozzle provides spray patterns from a solid stream to an 80° fan.

With the Adjustable WashJet spray nozzle, one nozzle meets the need for a solid stream spray as well as a full range of flat spray patterns. The Model 23990 nozzle is designed with an internal deflector blade. Turning the outer cap opens and closes the blade and changes the spray angle.

The spray from the Adjustable WashJet nozzle can be easily and quickly changed from a solid stream to a flat spray pattern of up to 80°. Maximum spraying pressure is 2500 PSI (175 bar).

The Adjustable WashJet nozzle features a hardened stainless steel orifice for wear resistance and long life. The deflector blade is also stainless steel, and the

nozzle body is brass. A polypropylene cap covers the outer body.

High/Low nozzle alternates between high and low pressure spraying.

The High/Low Adjustable WashJet spray nozzle can serve as both a soaper nozzle and a high pressure washing/rinsing nozzle. In addition, the spray angle can be adjusted from a solid stream to an 80° flat spray pattern. As a result, this single nozzle may be the only one required for many pressure washing applications.

An adjustable slide valve on the inlet side of the nozzle provides for spray pressure adjustment at any time the washer isn't operating. Pushing the slide valve sleeve away from the inlet decreases spraying pressure to a level which would allow siphon injectors to open. Pulling it towards the inlet increases pressure for rinsing. Maximum pressure is 1500 PSI (105 bar) at the "high" setting.

To change the spray angle, the outer cap on the nozzle is rotated. This deflects an internal blade, changing the spray from a solid stream to a flat spray pattern of up to 80°.

Adjustable WashJet nozzles feature hardened stainless steel orifices for wear resistance and long life.

PART NO.	REPLACES	DESCRIPTION
78135	23990-04	Size 4.0 nozzle
78136	23990-045	Size 4.5 nozzle
78137	23990-05	Size 5.0 nozzle
78138	23990-055	Size 5.5 nozzle
78139	23990-06	Size 6.0 nozzle
78140	24055-04	Size 4.0 nozzle
78141	24055-045	Size 4.5 nozzle
78142	24055-05	Size 5.0 nozzle
78143	24055-055	Size 5.5 nozzle
78144	24055-06	Size 6.0 nozzle



1/4" NPTF

### 23990 ADJUSTABLE WASHJET NOZZLE

Capacity Size	Capacity (gallons per minute)							
	300 PSI	500 PSI	700 PSI	800 PSI	1000 PSI	1500 PSI	2000 PSI	2500 PSI
02	.55	.71	.84	.89	1.0	1.2	1.4	1.6
03	.82	1.1	1.3	1.4	1.5	1.8	2.1	2.4
04	1.1	1.4	1.7	1.8	2.0	2.5	2.8	3.2
05	1.4	1.8	2.1	2.2	2.5	3.1	3.5	4.0
055	1.5	1.9	2.3	2.5	2.8	3.4	3.9	4.3
06	1.6	2.1	2.5	2.7	3.0	3.7	4.2	4.7
065	1.8	2.3	2.7	2.9	3.3	4.0	4.6	5.1
07	1.9	2.5	2.9	3.1	3.5	4.3	4.9	5.5
075	2.1	2.7	3.1	3.4	3.8	4.6	5.3	5.9
08	2.2	2.8	3.4	3.6	4.0	4.9	5.7	6.3
10	2.7	3.5	4.2	4.5	5.0	6.1	7.1	7.9



### 24055 HIGH-LOW ADJUSTABLE WASHJET NOZZLE

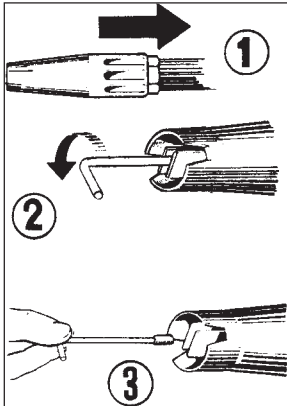
Capacity Size	Capacity Low Setting (gallons per minute)			Capacity High Setting (gallons per minute)					
	100 PSI	200 PSI	300 PSI	500 PSI	600 PSI	700 PSI	800 PSI	1000 PSI	1500 PSI
02	2.5	3.5	4.3	.71	.77	.84	.89	1.0	1.2
03	2.5	3.5	4.3	1.1	1.2	1.3	1.4	1.5	1.8
04	2.5	3.5	4.3	1.4	1.6	1.7	1.8	2.0	2.5
05	2.5	3.5	4.3	1.8	1.9	2.1	2.2	2.5	3.1
055	2.5	3.5	4.3	1.9	2.1	2.3	2.5	2.8	3.5
06	2.5	3.5	4.3	2.1	2.3	2.5	2.7	3.0	3.7
065	2.5	3.5	4.3	2.3	2.5	2.7	2.9	3.3	4.0
07	2.5	3.5	4.3	2.5	2.7	2.9	3.1	3.5	4.3
075	2.5	3.5	4.3	2.7	2.9	3.1	3.4	3.8	4.6
08	2.5	3.5	4.3	2.8	3.1	3.4	3.6	4.0	4.9
10	2.5	3.5	4.3	3.5	3.9	4.2	4.5	5.0	6.1

**Multireg 99 Hi-Lo Adjustable Nozzle**



**1/4" NPTF**

ADJUSTMENT NOZZLE ASSY.	SIZE
78145	4.0
78146	4.5
78147	5.0
78148	5.5
78149	6.0



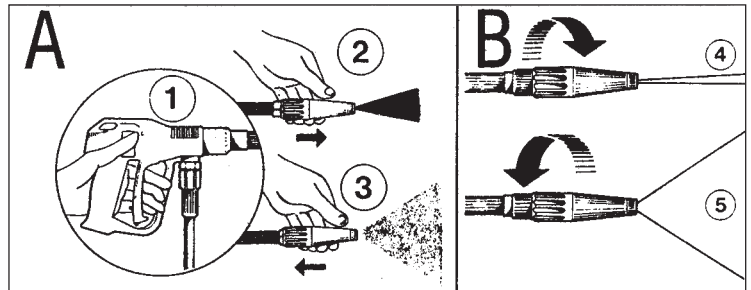
**Cleaning and Changing Nozzle**

- 1) Set "Multireg 99" in low pressure position.
- 2) Remove nozzle by unscrewing with key supplied.
- 3) Clean nozzle by blowing with air. If worn, replace.

**How to use the "Multireg 99"**

The "Multireg 99" device has two important and different functions:

- A) Selection of high or low pressure by push-pull action. The selection of the pressure must be carried out with the gun in (1) closed position (2) High pressure (3) Low Pressure
- B) Adjustment from (4) straight (5) to fan of water jet, by simple turning of the "Multireg 99".



74246



74241

**SMALL ROTARY NOZZLE ASSEMBLY**

Pressure: 3000 PSI  
Temperature: 130°F  
Max Flow: 4.0 gpm  
Inlet: 1/4" FPT  
Nozzle: ceramic

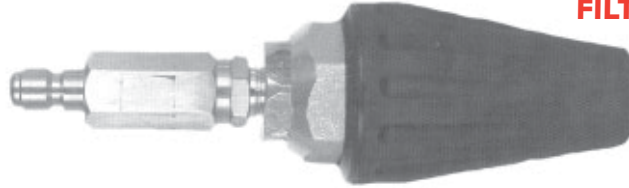
PART NO.	DESCRIPTION
74246	Rotary nozzle
74247	Repair kit

**MEDIUM ROTARY NOZZLE ASSEMBLY**

Max PSI: 4000  
 Max Flow: 4.0 GPM  
 Max Temp: 130°F  
 Inlet: 1/4" NPTF  
 Nozzle: Ceramic  
 Repair Kit: 75043

**PART NO. 75038**

**INCLUDES INLINE WATER FILTER**



**LARGE ROTARY NOZZLE ASSEMBLY**

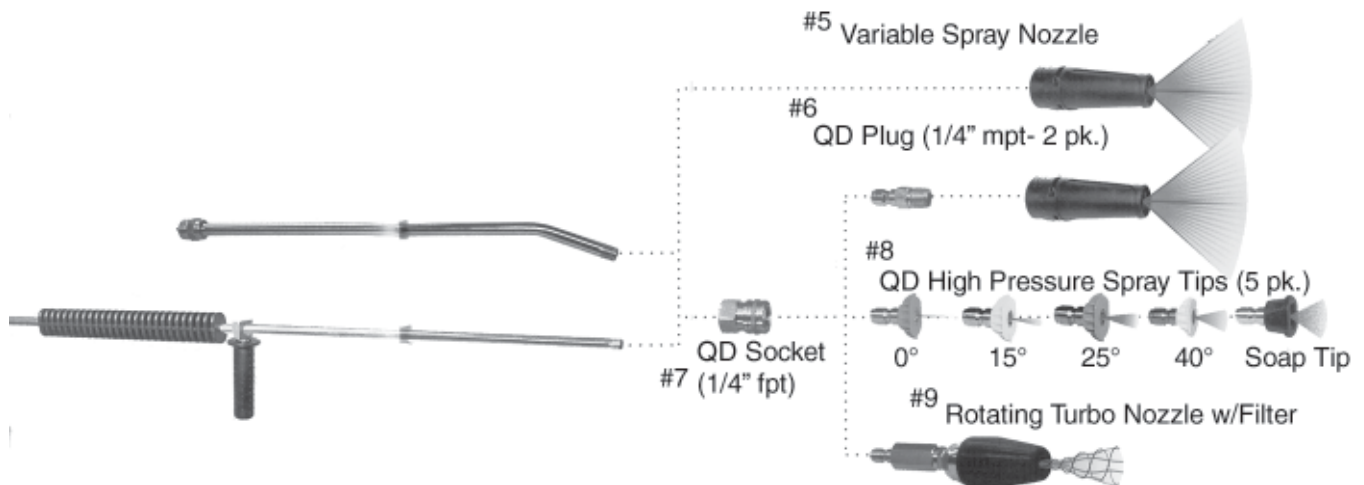
Max PSI: 5000  
 Max Flow: 4.5 GPM  
 Max Temp: 130°F  
 Inlet: 1/4" NPTF  
 Nozzle: Ceramic  
 Repair Kit: 75044

**PART NO. 75039**

**INCLUDES INLINE WATER FILTER**



**Wand to Spray Tip**



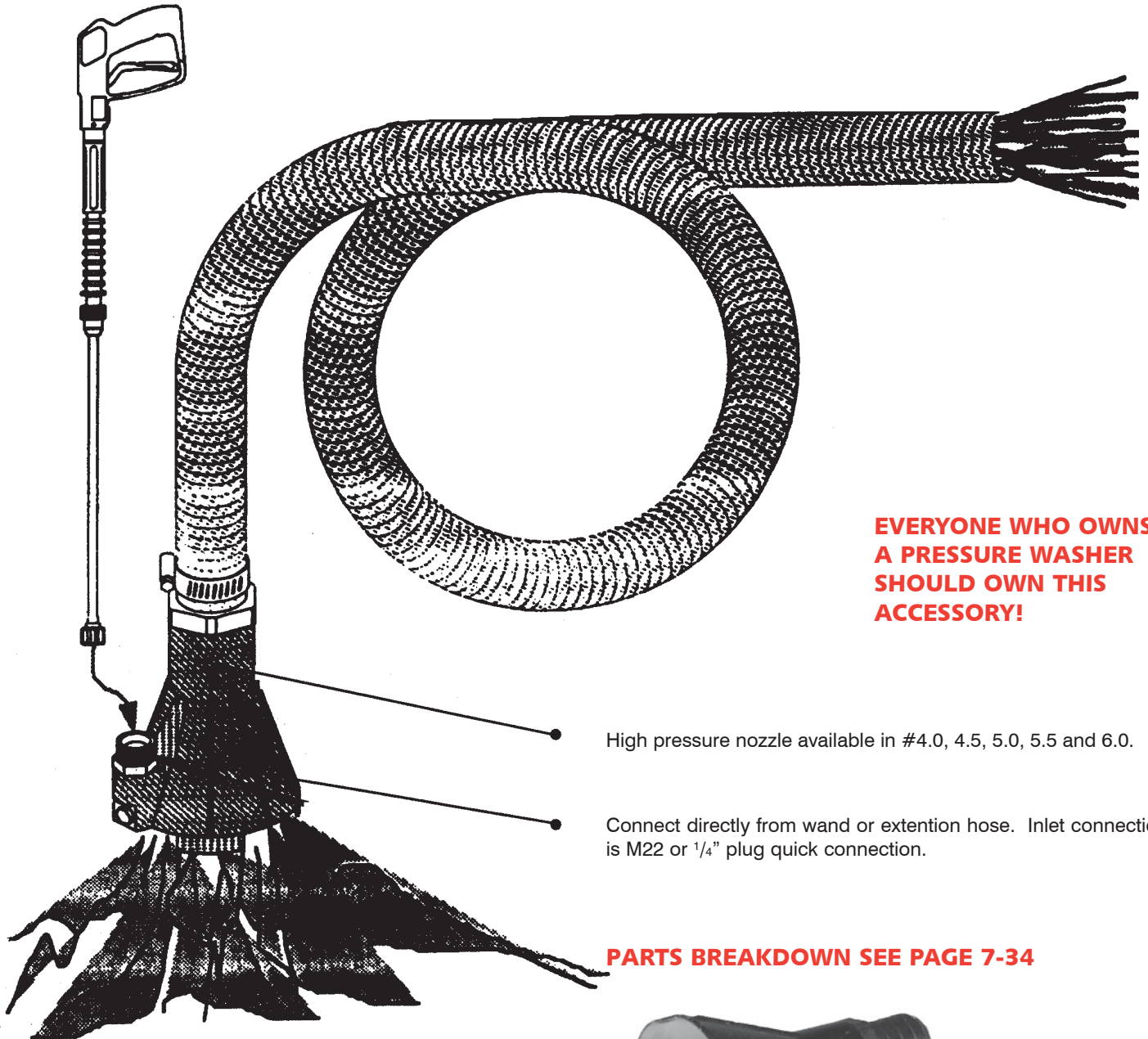
**Pressure Washer Accessories**

**THE SLUDGE PUMP FROM SUTTNER AMERICA COMPANY**

- Vacuums up liquids and sludge at a high ratio\*
  - Great for flood cleaning, car-wash pits, etc.
  - Cleans up solutions/mixtures without pump damage
  - Acts like a sump or trash pump
- \*Approximate ratio of 1:11 based on clean water. Ratio will vary dependent on pressure, flow, and viscosity.

PART NO.
78870

*Hose and hose clamp not included*



**EVERYONE WHO OWNS  
A PRESSURE WASHER  
SHOULD OWN THIS  
ACCESSORY!**

High pressure nozzle available in #4.0, 4.5, 5.0, 5.5 and 6.0.

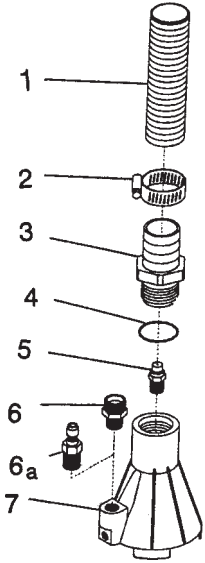
Connect directly from wand or extension hose. Inlet connection is M22 or 1/4" plug quick connection.

**PARTS BREAKDOWN SEE PAGE 7-34**



**Pressure Washer Accessories**

**PARTS LISTING MODEL ST-36-5 (78870) SLUDGE PUMP**

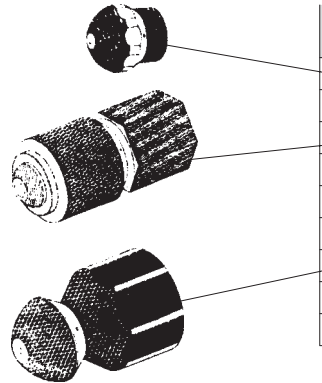


REF	PART NO.	DESCRIPTION
1	HOS 73053	Discharge hose 1 1/2"
2	HAR HS32	Hose clamp
3	78871	Hose barb
4	78869	O-Ring
5	78155	#4 nozzle
5	78156	#4.5 nozzle
5	78133	#5 nozzle
5	78157	#5.5 nozzle
5	78130	#6 nozzle
6	78097	Nipple M22 x 3/8 MPT for Karcher pressure washer
6A	78868	QC 1/4" Plug and Bushing
7	78867	Casting, aluminum

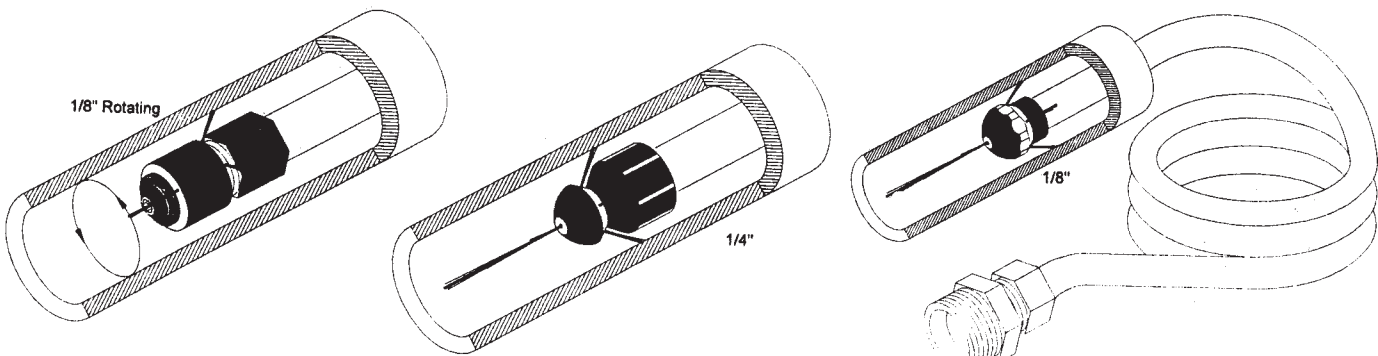
**SEWER NOZZLES**

Sewer nozzles that really "break the barrier" when it comes to drain and sewer pipe cleaning. The name you know and trust... Suttner.

As many of you know, a sewer nozzle is a great tool for cleaning out downspouts, drain pipes and sewer lines. They connect onto the end of a high pressure hose which is connected to a pressure washer. The nozzle and hose are fed into the clogged line. With the water pressure from pressure washer, the sewer nozzle goes to work. It breaks up the clog and flushes debris. The rotating sewer nozzles add extra agitation with a rotating spray and clean the entire surface of pipe walls



NOZZLE SIZE	PART NO.	DESCRIPTION
#4.5	78872	1/8"
#5.5	78873	1/8"
#5.5	78874	1/8" (rotating)
#4.5	78875	1/4"
#5.5	78876	1/4"
#5.5	78877	1/4" (rotating)
#6.0	78878	1/4"
#7.5	78879	1/4"
#8.0	78880	1/4" (rotating)



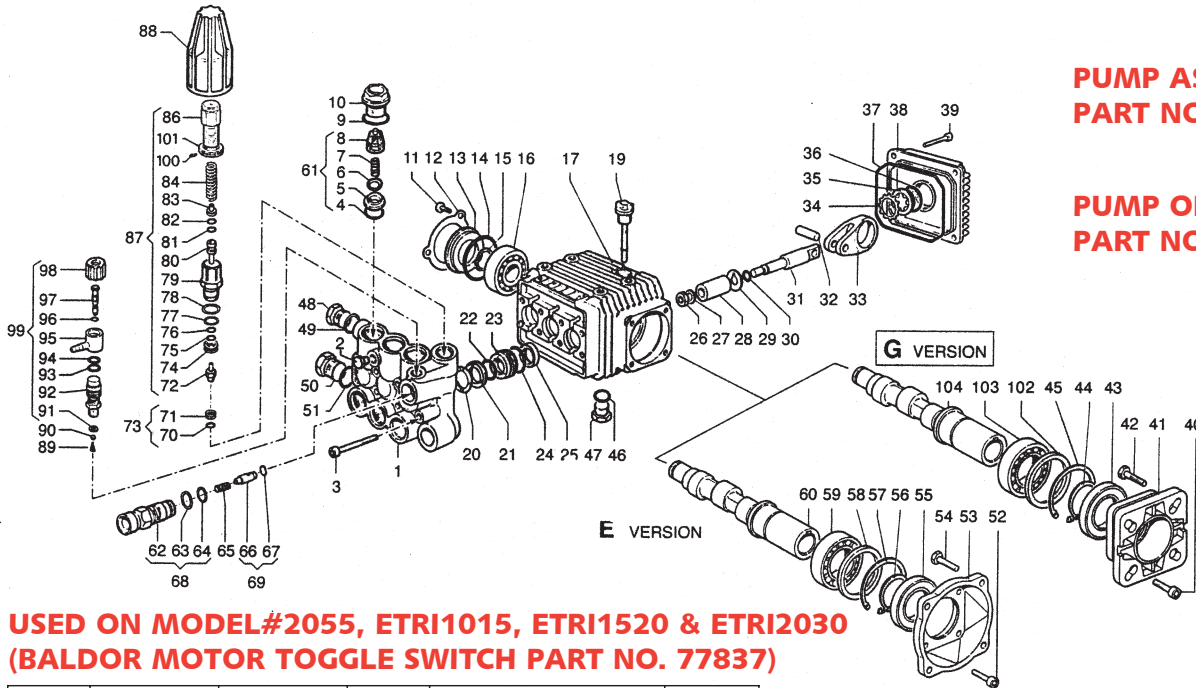
**SEWER CLEANING HOSE ASSEMBLY**

PART NO.	SIZE	LENGTH	DESCRIPTION
75033	3/16"	50'	1/8" NPTM (couplers not included)
75034	3/16"	100'	1/8" NPTM (couplers not included)
75195	3/16"	150'	1/8" NPTM (couplers not included)



COLOR	PSI	MAX TEMP
Black	2900	195°F

**Comet LWD-K Version 3400 RPM**



**PUMP ASSY  
PART NO.70193**

**PUMP ONLY  
PART NO. 70194**

**THE MOST  
COMMON  
SPARE PARTS  
ARE SOLD  
ONLY IN KIT  
PACKAGING**

**USED ON MODEL#2055, ETRI1015, ETRI1520 & ETRI2030  
(BALDOR MOTOR TOGGLE SWITCH PART NO. 77837)**

Item	Part No.	WP Part No.	Kit	Description	Quantity	Item	Part No.	WP Part No.	Kit	Description	Quantity
1	3218.0112.00			Manifold 15 mm	1	32	3011.0014.00			Wrist Pin	3
2	3202.0018.00			Cap G 1/8	1	33	0205.0048.00 0205.0050.00			Con, Rod Con, Rod	3 3
3	3609.0108.00 3609.0152.00			Screw M6x55 Screw M6x55	8 8	34	3019.0033.00			Snap Ring 18 mm	1
4	1210.0046.00	75151	A-D	O-Ring 2.62 x 17.13 mm	6	35	3201.0010.00			Oil Indicator	1
5	3009.0087.00	70965	A	Valve Seat	6	36	1210.0333.00	75092	D	O-Ring 1.78x23.52 mm	1
6	3604.0017.00	70965	A	Valve Plate	6	37	1210.0206.00	75092	D	O-Ring 2.62x101.27 mm	1
7	1802.0177.00	70965	A	Spring	6	38	0402.0142.00	78400		Crankcase Cover	1
8	1205.0025.00	70965	A	Vale Guide	6	39	3609.0041.00			Screw M6x25	4
9	1210.0048.00	70965	A-D	O-Ring 2.62x 20.24 mm	6	46	1210.0441.00	75092	D	O-Ring 2x14 mm	1
10	3202.0155.00	75081		Cap	6	47	3200.0007.00	75084		Cap 3/8Gas OT58	1
11	3609.0088.00			Screw M5x10	3	48	3200.0007.00	75084		Cap 3/8Gas OT58	
12	1004.0012.00	75082		Crankcase Cover	1	49	2811.0084.00			Washer 16.7x22x1.5 mm	1
13	0402.0172.00	75094		Spacer		50	3202.0015.00	75085		Cap G1/2	1
14	1210.0386.00	75092	D	O-Ring 3.53x 44.04 mm	1	51	2811.0086.00			Washer 21.2x27x1.5 mm	1
15	3019.0011.00			Snap Ring	1	61	1220.0030.00	70965		Valve Ass. Bly.	6
16	0438.0066.00 0438.0069.00	75096 75095		Ball Bearing 20x52x15 mm Ball Bearing 20x52x15 mm	1 1	62	3410.0290.00 3410.0298.00	75086 74998	E E	Injector Body M22x1.5 Injector Body 3/8" NPT	1 1
17	0403.0128.00	75097		Crankcase	1	63	1210.0398.00	75086	E-F	O-Ring	1
19	3200.0051.00	75083		Oil Dipstick	1	64	1210.0402.00	75086	E-F	O-Ring	1
20	0009.0196.00	70962	B	Head Ring 15 mm	3	65	1802.0179.00	75087	E	Spring	1
21	1241.0034.00	70962	B	Packing 15 mm	3	66	2409.0076.00	75087	E	Check Valve	1
22	1241.0030.00	70962	B	Packing 15x22x5.5 mm	3	67	1210.0397.00	75087	E-F	O-Ring	1
23	0009.0198.00			Packing Retainer 15 mm	3	68	3410.0289.00	75086		Injector Body Kit M22x1.5	1
24	1210.0223.00	70962	B-D	O-Ring 1.78x26.7 mm	3	69	2409.0075.00	75087		Check Valve Kit	1
25	0019.0095.00	75092	D	Oil Seal 15x24x5 mm	3	70	1210.0403.00	75088	E-F	O-Ring 1.78x8.73 mm VT	1
26	0600.0048.00	77827	C	Nut	3	71	3009.0122.00	75088	E-F	Valve Seat	1
27	2811.0080.00	77827	C	Washer 8.2x14x1.5 mm	3	72	3002.0508.00	70985	E-F	Housing with ball	1
28	0202.0020.00	77827	C	Piston 15 mm	3	73	3009.0013.00	75088		Seat Kit	1
29	2812.0038.00	77827	C	Washer	3	74	0009.0204.00	70985	E-F	Ring	1
30	1210.0055.00	77827	C	O-Ring 1.78 x6.07 mm	3	75	0009.0205.00	70985	E-F	Back Ring	1
31	2409.0044.00	75098		Piston Guides	3	76	1210.0405.00	70985	E-F	O-Ring	1
						77	1210.0404.00	70985	E-F	O-Ring	1
						78	1210.0407.00	70985	E-F	O-Ring	1
						79	0204.0045.00	70985	E	Housing	1
						80	2409.0077.00	70985	E-F	Piston Rod	1
						81	1210.0406.00	70985	E-F	O-Ring	1



**Comet LWD-K Version 3400 RPM**

**USED ON MODEL #2055, ETRI1015, ETRI1520 & ETRI2030**

Item	Part No.	WP Part No.	Kit	Description	Quantity
82	0009-0206.00	70985	E-F	Back-Up Ring	1
83	0009.0207.00	70985	E	Seat	1
84	1802.0182.00	70985	E	Spring	1
86	0204.0046.00	70985	E	Adjustable Knob	1
87	1215.0271.00	70985		Press. Valve Kit 1885 PSI	1
88	1817.0045.00	75089		Handle	1
89	1802.0180.00	78418		Spring	1
90	3003.0026.00	78418		Ball	1
91	2812.0067.00	75090		Washer	1
92	2803.0373.00	75090		Nipple	1
93	1210.0401.00	75090		O-Ring	1
94	1210.0399.00	75090		O-Ring	1
95	2801.0060.00	75090		Hose Barb Fitting	1
96	1210.0400.00	75090		O-Ring	1
97	0015.0171.00	75090		Rod	1
98	1817.0046.00	75090		Chemical Knob	1
99	3301.0543.00	75090		Adjustable Injector Kit	1
100	3622.0030.00	70985	E	Stop Adjustable Nut M4x4	1
101	1227.0022.00	70985	E	Nut	1

**E VERSION**

Item	Part No.	WP Part No.	Kit	Description	Quantity
52	3609.0032.00			Screw M6x20	4
53	3016.0016.00			Flange	1
54	3607.0200.00			Screw 3/8" 16x3/4"	4
55	0019.0075.00	75092	D	Oil Seal 35x62x7 mm	1
56	3019.0004.00			Snap Ring C72	1
57	3020.0012.00			Snap Ring C72	1
58	2812.0064.00			Washer	1
59	0438.0015.00			Ball Bearing 35x62x14 mm	1
60	0001.0336.00 0001.0337.00			Crankshaft 5/8" Crankshaft 5/8"	1 1

**PUMP ASSY PART NO. 70193**

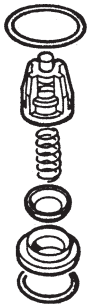
**PUMP ONLY PART NO. 70194**

**G VERSION**

Item	Part No.	WP Part No.	Kit	Description	Quantity
40	3609.0032.00			Screw M6x20	4
41	3016.0012.00			Flange	1
42	3607.0199.00			Screw 5/16" 24x3/4"	4
43	0019.0075.00	75092	D	Oil Seal 35x62x7 mm	1
44	3019.0004.00			Snap Ring C72	1
45	3020.0012.00			Snap Ring C72	1
102	2812.0064.00			Washer	1
105	0438.0015.00 0438.0070.00			Ball Bearing 35x62x14 mm Ball Bearing 35x62x14 mm	1 1
104	0001.0334.00 0001.0335.00 0001.0336.00 0001.0337.00 0001.0406.00			Crankshaft 3/4" Crankshaft 3/4" Crankshaft 3/4" Crankshaft 3/4" Crankshaft 3/4"	1 1 1 1 1

**THE MOST COMMON SPARE PARTS ARE SOLD ONLY IN KIT PACKAGING**

**COMPLETE VALVE KIT 5025.0011.00**

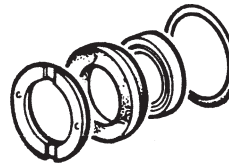


**PART NO. 70965  
KIT A**

Item	Part No.	Quantity
4	1210.0046.00	6
5	3009.0087.00	6
6	3604.0017.00	6
7	1802.0177.00	6
8	1205.0025.00	6
9	1210.0048.00	6

**PISTON SEAL KIT**

**15 MM 5019.0035.00 PART NO. 70962  
KIT B**



Item	Part No.	Quantity
20	0009.0196.00	3
21	1241.0034.00	3
22	1241.0030.00	3
24	1210.0223.00	3

**PISTON KIT**

**15 MM 2409.0071.00**



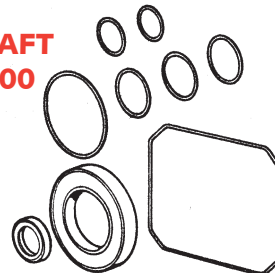
**PART NO. 77827  
KIT C**

Item	Part No.	Quantity
26	0600.0048.00	3
27	2811.0080.0	3
28	0202.0020.00	3
29	2812.0038.00	3
30	1210.0055.00	3

**SEAL KIT**

**HOLLOW SHAFT 5019.0041.00**

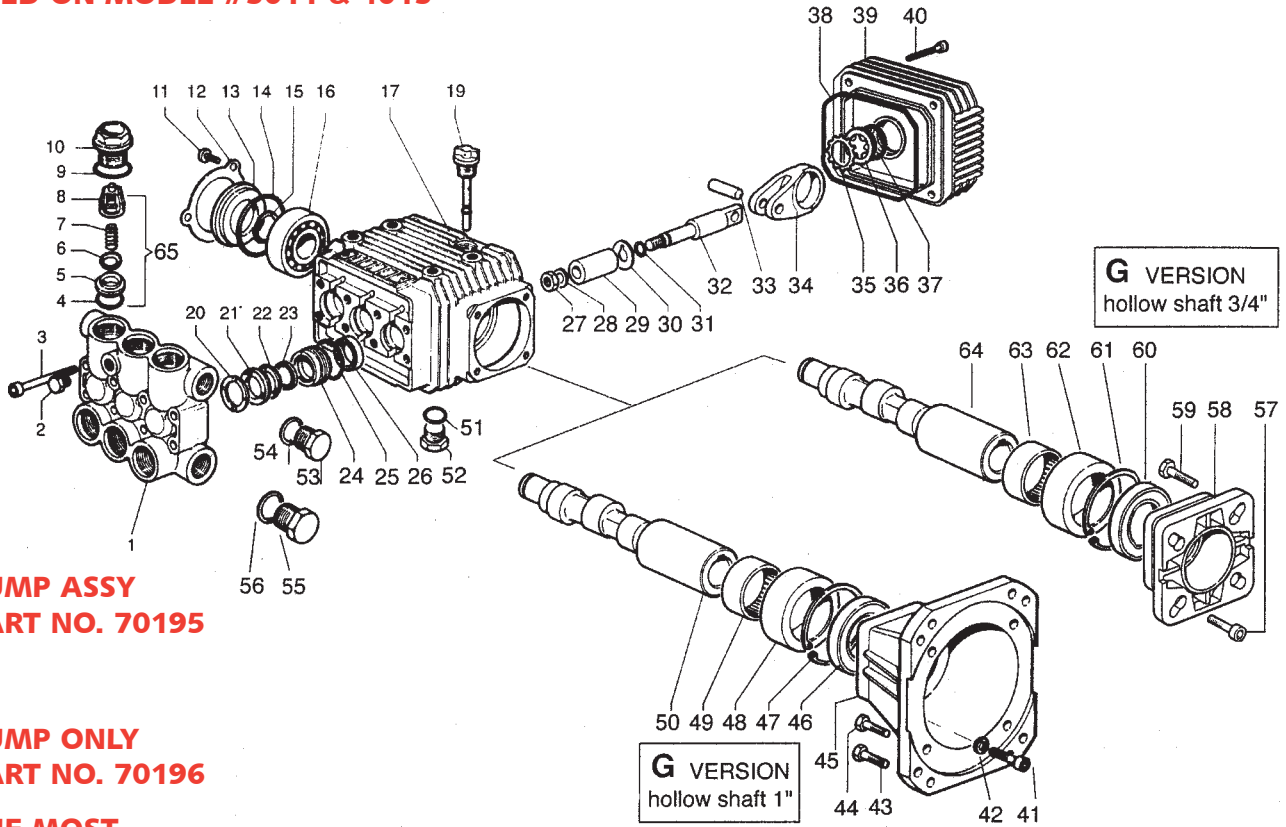
**PART NO. 75092  
KIT D**



Item	Part No.	Quantity
4	1210.0046.00	6
9	1210.0048.00	6
14	1210.0386.00	1
24	1210.0223.00	3
25	0019.0095.00	3
30	1210.0055.00	3
36	1210.0333.00	1
37	1210.0206.00	1
46	1210.0441.00	1
43-55	0019.0075.00	1

**Comet ZWD Version 3400 RPM**

**USED ON MODEL #3011 & 4013**



**PUMP ASSY  
PART NO. 70195**

**PUMP ONLY  
PART NO. 70196**

**THE MOST  
COMMON  
SPARE PARTS  
ARE SOLD  
ONLY IN KIT  
PACKAGING**

Item	Part No.	WP Part No.	Kit	Description	Quantity
1	3218.0126.00			Manifold 15 Brass	1
	3218.0127.00			Manifold 15 Brass	1
2	3202.0018.00			Cap G1/8	1
3	3609.0152.00			Screw M6x55	8
	3609.0156.00			Screw M8x55	8
4	1210.0046.00	75151	A-D	O-Ring 2.62x17.13 mm	6
5	3009.0087.00	70965	A	Valve Seat	6
6	3604.0017.00	70965	A	Valve Plate	6
7	1802.0177.00	70965	A	Spring	6
8	1205.0025.00	70965	A	Valve Guide	6
9	1210.0048.00	70965	A-D	O-Ring 2.62x20.24 mm	6
10	3202.0239.00	75093		Cap	6
11	3609.0088.00			Screw M5x10	3
12	1004.0012.00	75082		Crankcase Cover	1
13	0402.0172.00	75094		Spacer	1
14	1210.0386.00	75080	D	O-Ring 3.53x44.04 mm	1
15	3019.0011.00			Snap Ring	1
16	0438.0069.00	75095		Ball Bearing 20x52x15 mm	1
17	0403.0128.00	75097		Crankcase	1
19	3200.0051.00	75083		Oil Dipstick	1

Item	Part No.	WP Part No.	Kit	Description	Quantity
20	0009.0196.00	70964	B	Head Ring 15 mm	3
21	1241.0034.00	70964	B	Packing 15 mm	3
22	0009.0223.00	70964	B	Ring 15 mm	3
23	1241.0030.00	70964	B	Packing 15x22x5.5 mm	3
24	0009.0222.00			Ring 15 mm	3
25	1210.0223.00	70964	B	O-Ring 1.78x26.7 mm	3
26	0019.0095.00	75080	D	Oil Seal 15x24x5 mm	3
27	0600.0048.00	77827	C	Nut	3
28	2811.0080.00	77827	C	Washer 8.2x14x1.5 mm	3
29	0202.0020.00	77827	C	Piston 15 mm	3
30	2812.0038.00	77827	C	Washer	3
31	1210.0055.00	77827	C-D	O-Ring 1.78x6.07 mm	3
32	2409.0044.00	75098		Piston Guides	3
33	3011.0014.00			Wrist Pin	3
34	0205.0050.00			Con. Rod	3
35	3019.0033.00			Snap Ring 18 mm	1
36	3201.0012.00			Oil Indicator	1
37	1210.0333.00	75080	D	O-Ring 1.78x23.52 mm	1
38	1210.0206.00	75080	D	O-Ring 2.62x101.27 mm	1
39	0402.0220.00	75099		Crankcase Cover	1
40	3609.0041.00			Screw M6x25	4
51	1210.0441.00	75080	D	O-Ring 2x14 mm	1
52	3200.0007.00	75084		Cap 3/8 Gas OT 58	1
53	3200.0007.00	75084		Cap 3/8 Gas OT 58	1
54	2811.0084.00			Washer 16.7x22x1.5 mm	1
55	3202.0015.00	75085		Cap G 1/2	1
56	2811.0086.00			Washer 21.2x27x1.5 mm	1
65	1220.0030.00	70965		Valve Assembly	6

**Comet ZWD Version 3400 RPM**

**USED ON MODEL #3011 & 4013**

**PUMP ASSY      PUMP ONLY**  
**PART NO. 70195    PART NO. 70196**

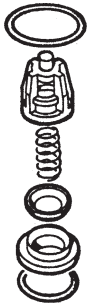
**G VERSION HOLLOW SHAFT 1"**

Item	Part No.	WP Part No.	Kit	Description	Quantity
41	3609.0032.00			Screw M6x20	4
42	2811.0023.00			Washer 6.6x18x2 mm	4
43	3607.0168.00			Screw 3/8" 16x1"	4
44	3607.0119.00			Screw 5/16" 24x1"	4
45	3016.0023.00			Flange 1"	1
46	0019.0102.00	75080	D	Oil Seal 40x62x7 mm	1
47	3020.0012.00			Snap Ring C72	1
48	0204.0038.00			Bushing	1
49	0437.0045.00			Roller 40x47x16 mm	1
50	0001.0386.00 0001.0387.00 0001.0398.00			Crankshaft 1" Crankshaft 1" Crankshaft 1"	1 1 1

**G VERSION HOLLOW SHAFT 3/4"**

Item	Part No.	WP Parts No.	Kit	Description	Quantity
57	3609.0032.00			Screw M6x20	4
58	3016.0012.00			Flange 3/4"	1
59	3607.0199.00			Screw 5/16" 24x3/4"	4
60	0019.0102.00	75080	D	Oil Seal 40x62x7 mm	1
61	3020.0012.00			Snap Ring C72	1
62	0204.0038.00			Bushing	1
63	0437.0045.00			Roller 40x47x16 mm	1
64	0001.0399.00			Crankshaft 3/4"	1

**COMPLETE VALVE KIT**  
**5025.0011.00**



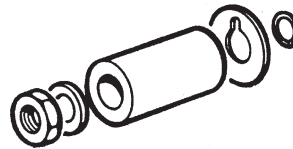
**PART NO.**  
**70965**  
**KIT A**

Item	Part No.	Quantity
4	1210.0046.00	6
5	3009.0087.00	6
6	3604.0017.00	6
7	1802.0177.00	6
8	1205.0025.00	6
9	1210.0048.00	6

**PISTON SEAL KIT**

**15 MM**  
**5019.0064.00**

**PART NO.**  
**70964**  
**KIT B**



Item	Part No.	Quantity
20	0009.0196.00	3
21	1241.0034.00	3
22	0009.0223.00	3
23	1241.0030.00	3
25	1210.0223.00	3

**PISTON KIT**

**15 MM**  
**2409.0071.00**



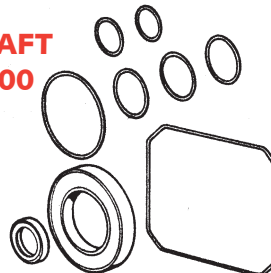
**PART NO.**  
**77827**  
**KIT C**

Item	Part No.	Quantity
27	0600.0048.00	3
28	2811.0080.00	3
29	0202.0020.00	3
30	2812.0038.00	3
31	1210.0055.00	3

**THE MOST COMMON SPARE PARTS ARE SOLD ONLY IN KIT PACKAGING**

**SEAL KIT**  
**HOLLOW SHAFT**  
**5019.0065.00**

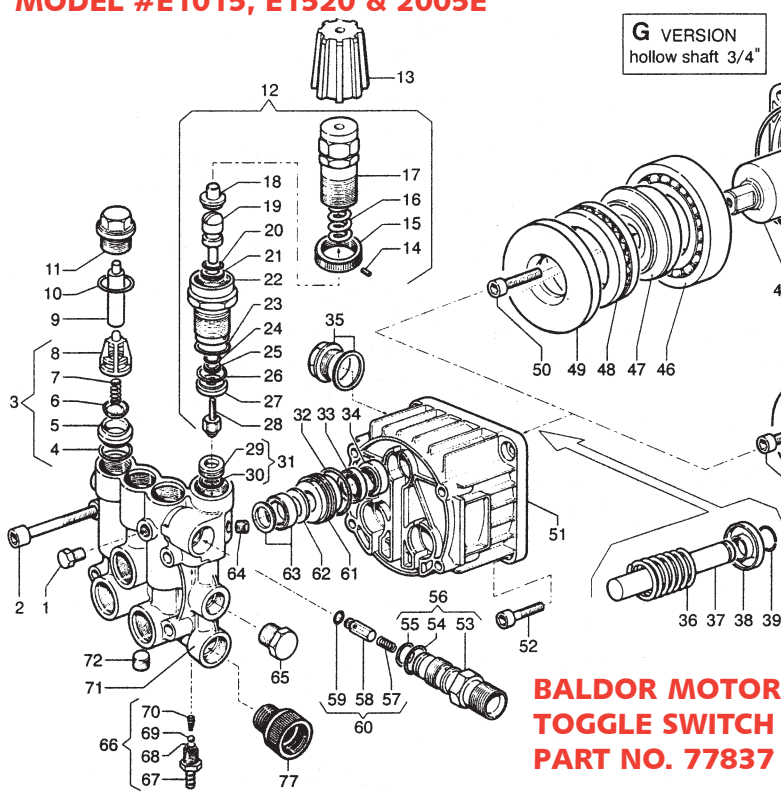
**PART NO.**  
**75080**  
**KIT D**



Item	Part No.	Quantity
4	1210.0046.00	6
9	1210.0048.00	6
14	1210.0386.00	1
25	1210.0223.00	3
26	0019.0095.00	3
31	1210.0055.00	3
37	1210.0333.00	1
38	1210.0206.00	1
46-60	0019.0102.00	1
51	1210.0441.00	1

**Comet AXD**

**MODEL #E1015, E1520 & 2005E**



**BALDOR MOTOR  
TOGGLE SWITCH  
PART NO. 77837**

**PUMP ASSY 3/4 SHAFT  
PART NO. 70189 (2005E)**

**PUMP ONLY 3/4 SHAFT  
PART NO. 70190 (2005E)**

**THE MOST  
COMMON  
SPARE PARTS  
ARE SOLD  
ONLY IN KIT  
PACKAGING**

**PUMP ASSY 5/8 SHAFT  
PART NO. 70191 (E1015, E1520)**

**PUMP ONLY 5/8 SHAFT  
PART NO. 70192 (E1015, E1520)**

Item	Part No.	WP Part No.	Kit	Description	Quantity
1	3202.0018.00			Cap 1/8"	1
2	3609.0156.00			Screw M8x55	4
3	1220.0045.00	75105		Valve Kit	6
4	1210.0049.00	75150	A-D	O-Ring 1.78x12.42	6
5	3009.0129.00	75100	A	Valve Seat	6
6	3604.0028.00	75100	A	Suc./Del. Valve	6
7	1802.0192.00	75100	A	Spring	6
8	1205.0033.00	75100	A	Valve Cage	6
9	0601.0273.00	75106		Spacer	2
10	1210.0151.00	75100	A-D	O-Ring 1.78x17.17	6
11	3202.0236.00	75107		Plug	6
12	1215.0271.00	77816		Reg. Val Kit for AX 180 Bar	1
13	1817.0053.00	77815		Knob	1
14	3622.0030.00	75104	E	Stop Adjustable Nut M4x4	1
15	1227.0022.00	75104	E	Nut	1
16	1802.0182.00	75104	E	Spring	1
17	0204.0046.00	75104	E	Adjustable Knob	1
18	0009.0207.00	75104	E	Seat	1
19	2409.0077.00	75103	E-F	Piston Rod	1
20	1210.0406.00	75103	E-F	O-Ring	1
21	0009.0206.00	75103	E-F	Ring	1
22	0204.0045.00	75104	E	Housing	1
23	1210.0407.00	75103	E-F	O-Ring	1
24	1210.0405.00	75103	E-F	O-Ring	1
25	0009.0205.00	75103	E-F	Ring	1
26	1210.0404.00	75103	E-F	O-Ring	1
27	0009.0204.00	75103	E-F	Ring	1
28	3002.0508.00	75103	E-F	Housing with Ball	1
29	3009.0122.00	75103	E-F	Seat	1
30	1210.0403.00	75103	E-F	O-Ring	1
31	3009.0013.00	75088		Valve Seat	1
32	1210.0356.00	70960	B-D	O-Ring 1.78x25.12	3
33	1241.0050.00	70960	B	Piston Seal 14	3
34	0019.0103.00	75102	D	Sealing Ring	3
35	3201.0018.00	78451		Oil Level Plug (Sight Glass)	1
36	1802.0153.00	75110		Spring	3
37	2409.0089.00	75101	C	Piston	3
38	0009.0221.00	75101	C	Ring	3
39	0009.0220.00	75101	C	Ring 14	3
51	0403.0135.00			Pump Crankcase	1
52	3609.0005.00			Screw M8x20	4
53	3410.0295.00	75086	E	Injector Body M22x1.5	1
	3410.0298.00	74998	E	Injector Body 3/8 NPT	1

Item	Part No.	WP Part No.	Kit	Description	Quantity
54	1210.0049.00	75102	D-E	O-Ring 1.78x12.42	1
55	1210.0040.00	75103	E-F	O-Ring 1.78x15.6	1
56	3410.0303.00	74969		Injector Body Kit 3/8 NPT	1
57	1802.0197.00	74969	E	Spring	1
58	2409.0086.00	75104	E	Check Valve	1
59	1210.0397.00	75103	E-F	O-Ring	1
60	2409.0091.00	75111		Check Valve Kit	1
61	0009.0219.00			Ring	3
62	0009.0230.00	70960	B	Ring	3
63	1241.0055.00	75109	B	Piston Seal 150 Bar	3
64	3200.0017.00			Plug 1/8x8	1
65	3200.0007.00			Plug 3/8 Gas OT58	1
66	2803.0435.00	78418		Injector Kit	1
67	2803.0425.00	78418		Hose Barb Fitting	1
68	2812.0067.00	78418		O-Ring	1
69	3003.0026.00	78418		Ball	1
70	1802.0180.00	78418		Spring	1
71	3218.0299.00			Pump Valve Chamber	1
72	3200.0017.00			Plug 1/8x8	1
77	2800.0081.00			Garden Hose Adapter	1

**E VERSION HOLLOW SHAFT 5/8"**

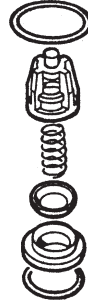
Item	Part No.	WP Part No.	Kit	Description	Quantity
78	3609.0005.00			Screw M8x20	1
79	2816.0025.00			Thrust Bearing	1
80	0436.0016.00			Axial Bearing	1
81	0001.0431.00			Eccentric Shaft 6	1
	0001.0417.00			Eccentric Shaft 8	1
	0001.0419.00			Eccentric Shaft 9	1
82	0438.0076.00			Ball Bearing 40x80x18 mm	1
83	0001.0422.00			Eccentric Shaft 5/8"	1
84	1210.0429.00		D	O-Ring	1
85	0019.0034.00		D	Sealing Ring 40x55x7	1
86	3002.0538.00			Support	1
87	3200.0071.00	78427		Plug G3/8	1

**Comet AXD**

**MODEL #E1015, E1520 & 2005E  
G VERSION HOLLOWSHAFT 3/4"**

Item	Part No.	WP Part No.	Kit	Description	Quantity
41	3200.0071.00	78427		Plug G3/8	1
42	3002.0522.00			Support	1
43	0019.0034.00	75102	D	Sealing Ring 40x55x7	1
44	1210.0429.00	77838	D	O-Ring	1
45	0001.0395.00			Eccentric Shaft 3/4"	1
46	0438.0076.00			Ball Bearing 40x80x18 mm	1
47	0001.0419.00 0001.0420.00 0001.0417.00 0001.0418.00			Eccentric Shaft 9" Eccentric Shaft 10 30' Eccentric Shaft 8 Eccentric Shaft 8 30'	1 1 1 1
48	0436.0016.00 0436.0018.00			Axial Bearing Axial Bearing	1 1
49	2816.0025.00			Thrust Bearing	1
50	3609.0005.00			Screw M8x20	1

**COMPLETE VALVE KIT  
5025.0014.00**



**PART NO.  
75100  
KIT A**

Item	Part No.	Quantity
4	1210.0049.00	6
5	3009.0129.00	6
6	3604.0028.00	6
7	1802.0192.00	6
8	1205.0033.00	6
10	1210.0151.00	6

**PISTON SEAL KIT  
5019.0077.00**



**PART NO.  
70960  
KIT B**

Item	Part No.	Quantity
32	1210.0356.00	3
33	1241.0050.00	3
62	0009.0230.00	3
63	1241.0055.00	3

**PISTON KIT  
2409.0092.00**



**PART NO.  
75101  
KIT C**

Item	Part No.	Quantity
37	2409.0089.00	3
38	0009.0221.00	3
39	0009.0220.00	3

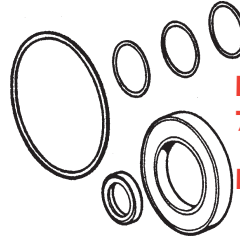
**MAINTENANCE KIT  
5026.0144.00**

**PART NO.  
75103  
KIT F**



**THE MOST  
COMMON  
SPARE PARTS  
ARE SOLD  
ONLY IN KIT  
PACKAGING**

**SEALKIT  
5019.0079.00**

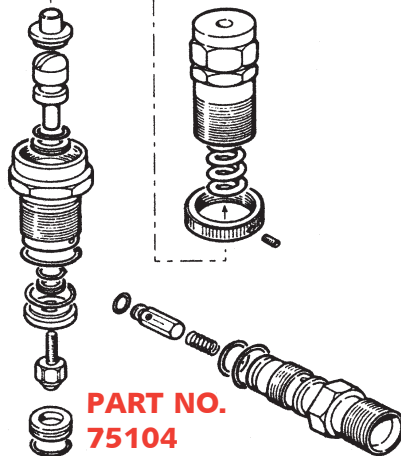


**PART NO.  
75102  
KIT D**

Item	Part No.	Quantity
4	1210.0049.00	6
10	1210.0151.00	6
32	1210.0356.00	3
34	0019.0103.00	3
43	0019.0034.00	1
44	1210.0429.00	1
54	1210.0049.00	1

Item	Part No.	Quantity
19	2409.0077.00	1
20	1210.0406.00	1
21	0009.0206.00	1
23	1210.0407.00	1
24	1210.0405.00	1
25	0009.0205.00	1
26	1210.0404.00	1
27	0009.0204.00	1
28	3002.0508.00	1
29	3009.0122.00	1
30	1210.0403.00	1
54	1210.0049.00	1
55	1210.0040.00	1
59	1210.0397.00	1

**OVERHAUL KIT  
5026.0143.00**



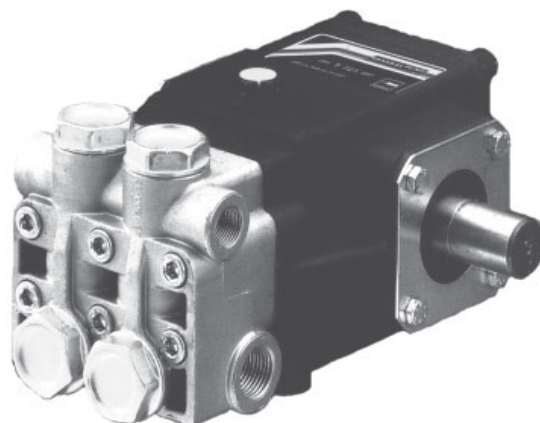
**PART NO.  
75104  
KIT E**

Item	Part No.	Quantity
14	3622.0030.00	1
15	1227.0022.00	1
16	1802.0182.00	1
17	0204.0046.00	1
18	0009.0207.00	1
19	2409.0077.00	1
20	1210.0406.00	1
21	0009.0206.00	1
22	0204.0045.00	1
23	1210.0407.00	1
24	1210.0405.00	1
25	0009.0205.00	1
26	1210.0404.00	1
27	0009.0204.00	1
28	3002.0508.00	1
29	3009.0122.00	1
30	1210.0403.00	1
53	3410.0298.00	1
54	1210.0049.00	1
55	1210.0040.00	1
57	1802.0197.00	1
58	2409.0086.00	1
59	1210.0397.00	1

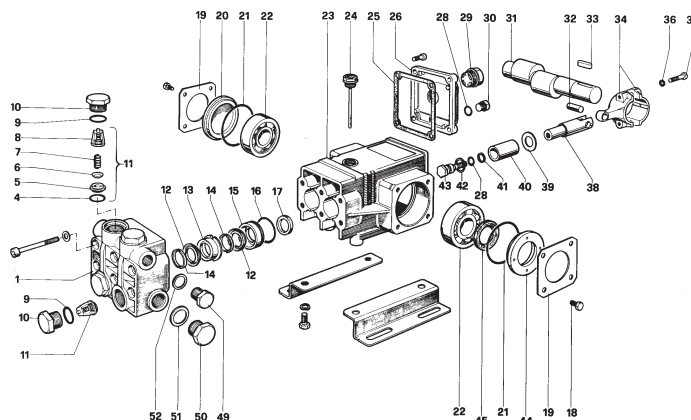
**General Pump & Interpump**

**T9721, T9731, T9791, W972, W973 & W979**

PART NO.	70180	70181	70182
General Pump Model No..	T9721	T9731	T9791
InterPump Model No.	W972	W973	W979
GPM	2.1	2.85	2.5
PSI	1000	1000	1100
RPM	1750	1750	1750
HP	1.5	2.0	2.0
Max. inlet pressure (PSI)	125	125	125
Max. suction lift (ft.hg)	10/8.8	10/8.8	10/8.8
Piston bore (mm)	20	22	20
Piston stroke (mm)	7.8	10.5	9.5
Crankcase capacity (L)	0.3	0.3	0.3
Inlet Port (in.)	1/2	1/2	1/2
Outlet Port (in.)	3/8	3/8	3/8
Shaft diameter (mm)	24	24	24
Weight (lbs.)	11	11	11



REF.	PART NO.	REPLACES	DESCRIPTION
1	78162	49.1200.41	Head
4	78163	90.3841.00	O-Ring kit 1
5	78163	36.2003.66	Valve seal kit 1
6	78163	36.2007.76	Air valve kit 1
7	78163	94.7376.00	Spring kit 1
8	78163	36.2002.51	Valve guide kit 1
9	78164	90.3847.00	O-Ring kit 4
10	78164	98.2220.00	Cap kit 4
11	78163	36.7032.01	Valve unit kit 1
12	78165	90.2703.00	Packing kit 27
13	78165	50.2166.70	Ring kit 27
14	78165	50.1000.51	Head ring kit 27
15	78165	50.0805.70	Packing retainer kit 27
16	78165	90.3612.00	O-Ring kit 27
17	78166	90.1614.00	Ring kit 23
19	78167	50.1500.74	Cover
20	78168	50.2116.51	Spacer
21	78169	90.4097.00	O-Ring
22	78170	91.8329.00	Bearing T9791, W979
22	78170	91.8328.00	Bearing T9721, T9731, W972, W973
23	78172	49.0100.22	Crankcase (W)
23	78173	49.0104.22	Crankcase (T)
24	78174	98.2103.00	Dip stick
25	78175	49.2119.84	Gasket
26	78176	49.1600.22	Crankcase cover (W)
26	78177	49.1603.22	Crankcase cover (T)
28	78178	90.3585.00	O-Ring kit 6
29	78179	97.5968.00	Oil level indicator
30	78180	98.2041.00	Cap
31	78181	49.0204.35	Crankshaft T9791, W979
31	78182	49.0220.35	Crankshaft T9721, W972
31	78183	49.0217.35	Crankshaft T9731, W973



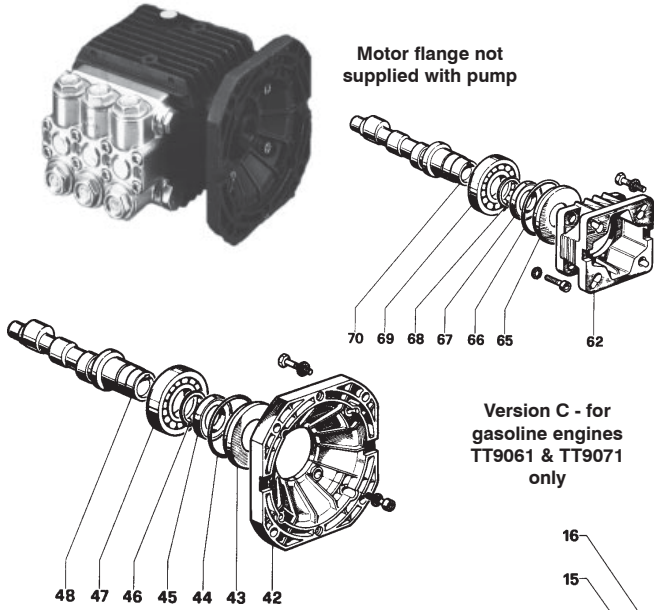
REF	PART NO.	REPLACES	DESCRIPTION
32	78184	97.7330.00	Piston ring
33	78185	91.4878.00	Key
34	78186	50.0300.01	Connecting rod
36	78187	96.6939.00	Washer
37	78188	99.1927.00	Bolt
38	78189	50.0500.56	Piston guide
39	78178	96.7286.00	Washer kit 6
40	78190	50.0404.09	Piston
41	78178	90.5067.00	Anti extrusion ring kit 6
42	78178	96.7280.00	Washer kit 6
43	78178	47.2195.66	Piston bolt kit 6
44	78191	50.2115.51	Spacer
45	78192	90.1634.00	Ring seal
49	78193	98.2100.00	Cap
50	78194	98.2176.00	Cap
51	78195	96.7514.00	Washer
52	78196	96.7380.00	Washer

*The most common spare parts are sold only in kit packaging.*

**General Pump & Interpump**

**T9051, TT9061, TT9071, W905, WW906 & WW907**

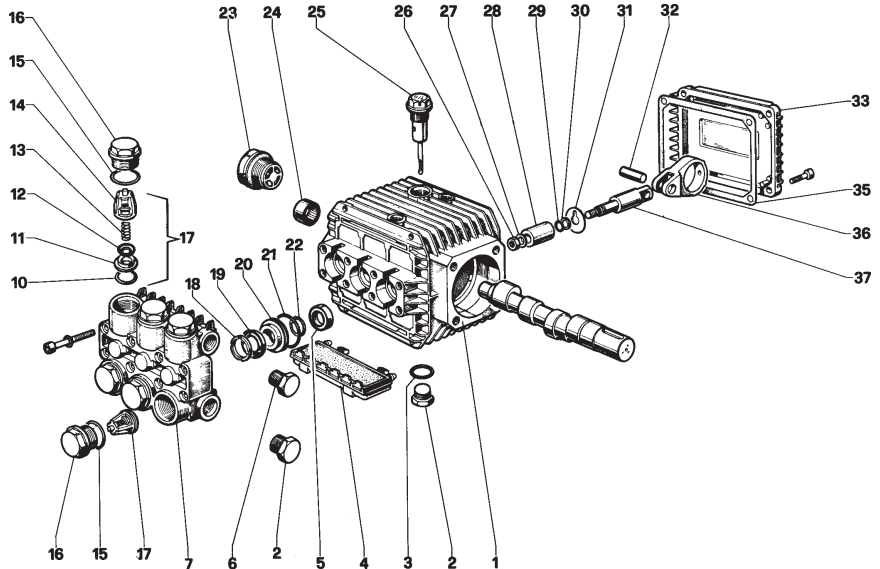
PART NO.	70183	70184	70185
General Pump Model No.	T9051	TT9061	TT9071
Interpump Model No.	W905	WW906	WW907
GPM	2.11	2.11	2.8
PSI	1015	1015	1500
RPM	1750	3400	3400
HP	1.5	1.5	3
Max. inlet pressure (PSI)	125	125	125
Max. suction lift (ft/hg)	10/8.8	10/8.8	10/8.8
Piston bore (mm)	15	15	15
Piston stroke (mm)	9.4	5	6.6
Crankcase capacity (l)	0.33	0.33	0.33
Inlet port (in.)	3/8	3/8	3/8
Outlet port (in.)	1/4	1/4	1/4
Shaft diameter (mm)	5/8 hollow	5/8 hollow	3/4 hollow



Motor flange not supplied with pump

Version C - for gasoline engines TT9061 & TT9071 only

Version A - for electric motors (60Hz) 56C



REF.	PART NO.	REPLACES	DESCRIPTION
1	78197	51.0106.22	Crankcase
2	78193	98.2100.00	Cap
3	78198	90.3833.00	O-Ring
4	78199	51.2091.02	Side cover
5	78800	90.1565.00	Ring kit 83
6	78180	98.2041.00	Cap
7	78801	51.1200.41	Head
10	78163	90.3841.00	O-Ring kit 1
11	78163	36.2003.66	Valve seat kit 1
12	78163	36.2001.76	Air valve kit 1
13	78163	94.7376.00	Spring kit 1
14	78163	36.2002.51	valve guide kit 1
15	78802	90.3847.00	O-Ring kit 84
16	78802	98.2218.00	Cap kit 84
17	78163	36.7032.01	Valve unit kit 1
18	78803	51.1000.51	Head ring kit 96
19	78803	90.2620.00	Packing kit 96

REF.	PART NO.	REPLACES	DESCRIPTION
20	78803	51.0800.70	Rocking ret.kit 96
21	78803	90.3604.00	O-Ring kit 96
22	78803	90.3835.00	O-Ring kit 96
23	78179	97.5968.00	Oil level indicator
24	78804	91.8014.00	Bushing
25	78174	98.2103.00	Dipstick
26	78805	92.2216.00	Nut
27	78806	96.7008.00	Washer
28	78807	51.0400.09	Piston
29	78808	90.3572.00	O-Ring
30	78809	90.5022.00	Unit extrusion ring
31	78810	96.7070.00	Washer
32	78811	97.7310.00	Piston pin
33	78812	51.1600.22	Crankcase cover
35	78813	51.2101.84	Gasket
36	78814	51.0300.22	Connecting rod
37	78815	51.0500.56	Piston guide

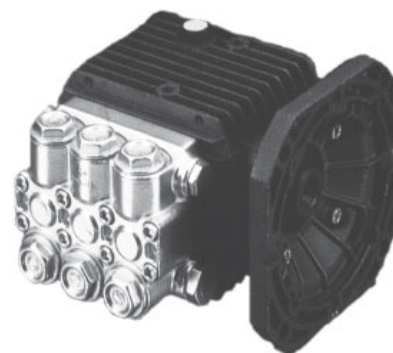
REF.	PART NO.	REPLACES	DESCRIPTION
42	78817	10034422	C flange
43	78191	50211551	Spacer
44	78169	90409700	O-Ring
45	78818	90164400	Ring seal
46	78819	90066700	Circlip
47	78816	91837300	Bearing
48	78820	51020835	Crankshaft TT9061
48	78821	51020935	Crankshaft TT9071
48	78822	51021535	Crankshaft T9051
62	78823	10.0346.22	Motor flange
65	78191	50.2115.51	Spacer
66	78169	90.4097.00	O-Ring
67	78818	90.1644.00	Ring seal
68	78819	90.0667.00	Circlip
69	78816	91.8373.00	Bearing
70	78824	51.0210.35	Crankshaft
70	78825	51.0211.35	Crankshaft

The most common spare parts are sold only in kit packaging.

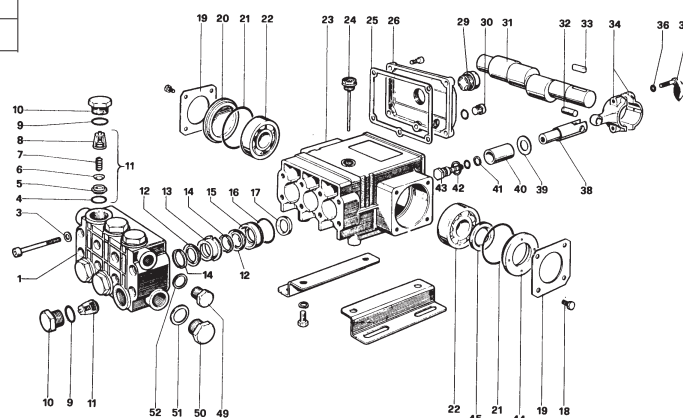
**General Pump & Interpump**

**T9951, T9961, T9971, T701, T711 & T911**

PART NO.	70186	70187	70188
General Pump Model No.	T9951	T9961	T9971
InterPump Model No.	T701	T711	T911
GPM	3.5	4.0	4.0
PSI	1300	1100	2000
RPM	1750	1750	1750
HP	3.0	3.0	5.5
Max. inlet pressure (psi)	125	125	125
Max. suction lift (ft/hg)	10/8.8	10/8.8	10/8.8
Piston bore (mm)	20	20	20
Piston stroke (mm)	8.5	10	10
Crankcase capacity (l)	0.45	0.45	0.45
Inlet port (in.)	1/2	1/2	1/2
Outlet port (in.)	3/8	3/8	3/8
Shaft diameter (mm)	24	24	24
Weight (lbs.)	18.7	18.7	18.7



Motor flange not supplied with pump



REF.	PART NO.	REPLACES	DESCRIPTION
1	78826	50.1207.41	Head
4	78163	90.3841.00	O-Ring kit 1
5	78163	36.2003.66	Valve seal kit 1
6	78163	36.2001.76	Air valve kit 1
7	78163	94.7376.00	Spring kit 1
8	78163	36.2002.51	Valve guide kit 1
9	78164	90.3847.00	O-Ring kit 4
10	78164	98.2220.00	Cap kit 4
11	78163	36.7032.01	Valve unit kit 1
12	78165	90.2703.00	Packing kit 27
13	78165	50.2166.70	Ring kit 27
14	78165	50.1000.51	Head ring kit 27
15	78165	50.0805.70	Packing retainer kit 27
16	78165	90.3612.00	O-Ring kit 27
17	78166	90.1614.00	Ring kit 23
19	78167	50.1500.74	Crankcase cover
20	78168	50.2116.51	Spacer
21	78169	90.4097.00	O-Ring
22	78170	91.8329.00	Bearing
23	78827	50.0104.22	Crankcase
24	78174	98.2103.00	Dipstick
25	78828	50.2119.84	Gasket
26	78829	50.1603.22	Crankcase cover
28	78178	97.5968.00	O-Ring kit 6
29	78179	97.5968.00	Oil level indicator
30	78180	98.2041.00	Cap
31	78830	50.0218.35	Crankshaft T711-T911-T9961-T9971
31	78831	50.0219.35	Crankshaft T701-T9951
32	78184	97.7330.00	Piston ring
33	78832	91.4890.00	Key
34	78186	50.0300.01	Connecting rod - T701-T711-T9961-T9951
34	78833	50.0303.01	Connecting rod T911-T9971

REF	PART NO.	REPLACES	DESCRIPTION
36	78187	96.6939.00	Washer
37	78188	99.1927.00	Bolt
38	78834	50.0501.56	Piston guide
39	78178	96.7286.00	Washer kit 6
40	78190	50.0404.09	Piston
41	78178	90.5067.00	Unit extrusion ring kit 6
42	78178	96.7280.00	Washer kit 6
43	78178	47.2195.66	Piston bolt kit 6
44	78191	50.2115.51	Spacer
45	78192	90.1634.00	Ring seal
49	78193	98.2100.00	Cap
50	78194	98.2176.00	Cap
51	78195	96.7514.00	Washer
52	78196	96.7380.00	Washer

**THE MOST COMMON SPARE PARTS ARE SOLD ONLY IN KIT PACKAGING**



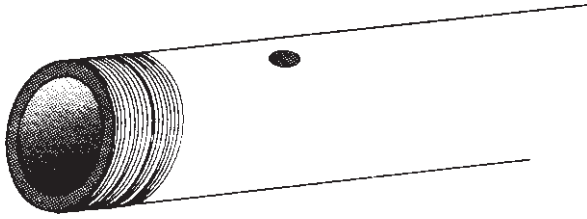
**I N D E X**

<b>2 WHEELERS</b>	8-31, 8-32	<b>CONTAINER RINSING NOZZLES</b>	8-19, 8-20
<b>3 POINT CARRIER</b>	8-5	<b>DIGITAL CALIPERS</b>	8-28
<b>ACCESSORY CART</b>	8-32	<b>DIGITAL WIND METERS</b>	8-11
<b>AGITATORS</b>	8-19, 8-21, 8-22	<b>DOLLYS</b>	8-31, 8-32
<b>ANTI VORTEX FITTINGS</b>	8-17, 8-18	<b>DRILL PUMP</b>	8-24
<b>APPLIANCE DOLLYS</b>	8-31, 8-32	<b>ELECTRIC BACK PACK SPRAYER</b>	8-13
<b>ATV SPRAYERS</b>	8-9	<b>ELLIPTICAL TANKS</b>	8-3, 8-7
<b>BACKPACK SPRAYER</b>	8-11, 8-13	<b>FIRE HOSE NOZZLE</b>	8-23
<b>BOOM ASSEMBLIES</b>	8-1	<b>FOAM MARKER</b>	8-10
<b>BOOMS</b>	8-1	<b>FOAM MARKER DYE</b>	8-10
<b>BULKHEAD FITTINGS</b>	8-16, 8-17, 8-18	<b>GAS DRIVEN PUMPS</b>	8-34
<b>CALIBRATOR</b>	8-10	<b>GREEN HOUSE CARTS</b>	8-33
<b>CALIPER</b>	8-28	<b>HOSE REELS</b>	8-24
<b>CARRIER FOR VERTICAL TANK</b>	8-5	<b>INDOOR STORAGE TANKS</b>	8-8
<b>CARTS</b>	8-32, 8-33	<b>LAWN MOWER ATV SPRAYER BRACKET</b>	8-30
<b>CENTRIFUGAL WATER PUMPS</b>	8-34	<b>LEG TANKS</b>	8-6, 8-7
<b>CHEM WASH EMERGENCY WASH KIT</b>	8-14	<b>OIL CHANGE SYSTEM</b>	8-24
<b>CHEMICAL MIX FILL TANK</b>	8-6	<b>PAINT</b>	8-26, 8-27
<b>COMPRESSION SPRAYER</b>	8-11	<b>PALLET JACKS</b>	8-30

**I N D E X**

<b>PARTS CART</b> .....	8-32	<b>TANK ACCESSORIES</b> .....	8-15
<b>PARTS WASHERS</b> .....	8-29	<b>TANK FLANGES</b> .....	8-16, 8-17, 8-18
<b>PATTERN CHECK</b> .....	8-12	<b>TANK LIDS</b> .....	8-15
<b>PICK-UP TANKS</b> .....	8-5	<b>TANK REPAIR KITS</b> .....	8-15
<b>PIPE CUTTER</b> .....	8-11	<b>TANK RINSE NOZZLES</b> .....	8-14, 8-19, 8-20
<b>PLASTI-KOTE PAINT</b> .....	8-26, 8-27	<b>TANKS</b> .....	8-2, 8-3, 8-5 to 8-8
<b>PVC COUPLINGS</b> .....	8-1	<b>TIRES</b> .....	8-23
<b>PVC PIPE</b> .....	8-1	<b>TIP TESTER</b> .....	8-12
<b>REELS</b> .....	8-24	<b>TOUCH UP PAINT</b> .....	8-26, 8-27
<b>RINSE NOZZLE</b> .....	8-14	<b>TRASH PUMP</b> .....	8-34
<b>ROPE WICK</b> .....	8-25	<b>TUBES (TIRE)</b> .....	8-23
<b>SADDLES</b> .....	8-4	<b>UTILITY CARTS</b> .....	8-33
<b>SIPHON TUBE</b> .....	8-18	<b>VENT CAP</b> .....	8-18
<b>SPRAY PAINT</b> .....	8-26, 8-27	<b>VERTICAL TANKS</b> .....	8-5
<b>DOLLYS</b> .....	8-31, 8-32	<b>VORTEX FITTINGS</b> .....	8-17, 8-18
<b>SPRAYER BOOM PIPE</b> .....	8-1	<b>WATER STORAGE TANKS</b> .....	8-8
<b>STORAGE TANKS</b> .....	8-5	<b>WHEELS</b> .....	8-23
<b>SUCTION STRAINERS</b> .....	8-34, 3-69	<b>WICK WIPERS</b> .....	8-25
		<b>WIND WIZARD</b> .....	8-11

**Sprayer Booms and Parts**



**ALUMINUM PIPE (I.D. DIMENSIONS)**

PART NO.	REPLACES	DESCRIPTION
75200	12375	123" x 3/4" aluminum drilled boom 9/32" holes on 20" spacing
75201	12310	123" x 1" aluminum drilled boom 9/32" holes on 20" spacing



Pipe Couplings  
FNPT x FNPT

**ALUMINUM COUPLINGS**

PART NO.	REPLACES	DESCRIPTION
75220	12376	3/4" female NPT x 1/4" female NPT aluminum boom cap
75221	12311	1" female NPT x 1/4" female NPT aluminum boom cap

**PART NO. 75055**



Cobra Pipe Clip (GR)

NPT Size: 1"

Use with Schedule 80 Pipe

Clip not available as separate Part Number

**PVC PIPE (I.D. DIMENSIONS)**

PART NO.	DESCRIPTION
75212*	123" x 1 1/4" schedule 80 PVC drilled pipe, 9/32" holes on 20" spacing
75213*	103" x 3/4" schedule 80 PVC drilled pipe, 9/32" holes on 20" spacing
75214*	103" x 1" schedule 80 PVC drilled pipe, 9/32" holes on 20" spacing
75215*	103" x 1 1/4" schedule 80 PVC drilled pipe, 9/32" holes on 20" spacing
75216	103" x 3/4" schedule 80 PVC drilled pipe, 9/32" holes on 20" spacing threaded
75217	103" x 1" schedule 80 PVC drilled pipe, 9/32" holes on 20" spacing threaded
75218	103" x 1 1/4" schedule 80 PVC drilled pipe 9/32" holes on 20" spacing threaded
75206	103" x 3/4" schedule 80 PVC (not drilled, not threaded)
75207	103" x 1" schedule 80 PVC (not drilled, not threaded)
75208	103" x 1 1/4" schedule 80 PVC (not drilled, not threaded)

\*Comes with schedule 40 NPT couplings

Note: Schedule 40 couplers are used to reduce OD of coupling.

Pressure rating & strength are adequate for all applications.

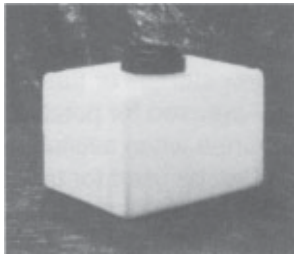
**PVC COUPLINGS**

PART NO.	REPLACES	DESCRIPTION
75230	-	3/4" NPT x 3/4" PVC glue female coupler schedule 40
75231	-	1" NPT x 1" PVC glue female coupler schedule 40
75232	-	1 1/4" NPT x 1 1/4" PVC glue female coupler schedule 40
75056	-	3/4" PVC slip x slip coupling SCH40
75057	-	1" PVC slip x slip coupling SCH40
75058	-	1 1/4" PVC slip x slip coupling SCH40
73459	FC-3400	3/4" FNPT nylon pipe coupling
73460	FC-1000	1" FNPT nylon pipe coupling
73461	FC-114	1 1/4" FNPT nylon pipe coupling
73323	CPLG075	3/4" poly pipe coupling
73324	CPLG100	1" poly pipe coupling
73325	CPLG125	1 1/4" poly pipe coupling

**SPRAYER BOOM ASSEMBLIES**

**USE THESE BOOMS TO RETROFIT SPRAYERS IN THE FIELD**

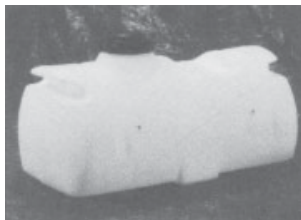
PART NO.	BOOM WIDTH	NUMBER OF NOZZLES	NOZZLE TYPE	NUMBER OF BOOM SECTIONS
SPW WP80	40" boom 80" coverage	2	FloodJet	1
SPW WP100	80" boom 100" coverage	5	ComboJet Flat Fan	3
SPW WP140	120" boom 140" coverage	7	ComboJet Diaphragm	3
SPW WP21150FT	21' boom small centre	13	ComboJet Diaphragm	3
SPW WP21FT	21' boom large centre	13	ComboJet Diaphragm	3
SPW WP28FT	28' boom large centre	17	Combojet Diaphragm	3
SPW WP35FT	35' boom large centre	21	ComboJet Diaphragm	5

**Polyethylene Sprayer Tanks (US Gallons)**


12 gallon  
rectangular tank

PART NO.	DESCRIPTION	LID PART NO.	LID SIZE	APPROX. WEIGHT
SPW 78969	12 gallon rectangular tank 18" long, 14" wide, 12" high, 3/4" fitting	75691	5"	6 lbs.

Note: Tanks with 2" lid, lid Part No. is 75690.



14 or 25 gallon flat  
bottom tank c/w pump mount

PART NO.	DESCRIPTION	LID PART NO.	LID SIZE	APPROX. WEIGHT
SPW 78970	14 gallon oval w/flat bottom 31" long, 14" wide, 14" high	79107	5"	8 lbs.
SPW 78971	25 gallon oval w/flat bottom 34" long, 18" wide, 17" high	79107	5"	12 lbs.

Note: Tank equipped with pump mount inserts.

Note: 78970 fits WP14 Westward sprayer

Note: 78971 fits WP25 Westward sprayer



c/w sump, no pump mount

PART NO.	DESCRIPTION	LID PART NO.	LID SIZE	APPROX. WEIGHT
*SPW 79001	15 gallon oval flat bottom 31" long, 14" wide, 14" high	79118	5"	11 lbs.
*SPW 79000	25 gallon oval flat bottom 36" long, 18" wide, 17" high	79118	5"	18 lbs.

Note: 79001 fits WP1540 Westward sprayer

Note: 79000 fits WP2540, WP25100 Westward sprayer

Note: Early Production tanks, lid Part No. is 79045.



Oval Sprayer Tanks with Flat  
Bottom c/w Pump Mount  
5" Fill Opening - Drain Outlet w/  
cap & tether

PART NO.	DESCRIPTION	LID PART NO.	LID SIZE	APPROX. WEIGHT
SPW 74860	15 Gal Oval w/flat bottom 34" long, 16" wide, 13" high	79107	5"	8 lbs.
SPW 74861	25 Gal Oval w/flat bottom 35 1/2" long, 18" wide, 17" high	79107	5"	12 lbs.



c/w sump

PART NO.	DESCRIPTION	LID PART NO.	LID SIZE	APPROX. WEIGHT
*SPW 79042	20 gallon tank 26 1/2" long, 19" wide, 12 3/4" high	79118	5"	15 lbs

Note: 79042 fits WP20 Westward sprayer

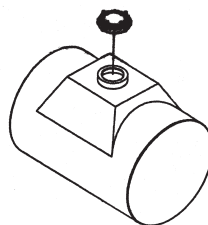


c/w sump

PART NO.	DESCRIPTION	LID PART NO.	LID SIZE	APPROX. WEIGHT
**SPW 79011	31 gallon round tank 18" long, 23" diameter	79118	5"	17 lbs.
**SPW 79008	62 gallon round tank 37" long, 23" diameter	79118	5"	27 lbs.

\* 1/2" fitting

\*\*3/4" x 1 1/4" fitting



**Polyethylene Sprayer Tanks (US Gallons)**



Round horizontal tanks w/sump

PART NO.	DESCRIPTION	LID PART NO.	LID SIZE	APPROX. WEIGHT
**SPW 78972	65 gallon round tank 27" long x 30" diameter	75700	10"	23 lbs.
**SPW 78980	110 gallon round tank 49" long x 30" diameter	79129	8"	36 lbs.
**SPW 78981	150 gallon round tank 55" long x 32" diameter	79129	8"	45 lbs.
**SPW 78973	150 gallon round tank 40" long x 38" diameter	75700	10"	45 lbs.
**SPW 78982	200 gallon round tank 51" long x 38" diameter	79129	8"	56 lbs.
**SPW78974	200 gallon round tank 70" long x 32" diameter	79129	8"	56 lbs.
**SPW 78983	300 gallon round tank 72" long x 38" diameter	79129	8"	82 lbs.
**SPW 78975	400 gallon round tank 80" long x 42" diameter	75700	10"	101 lbs.
**SPW 78984	500 gallon round tank 74" long x 48" diameter	78998	16"	110 lbs.
**SPW 78985	750 gallon round tank 82" long x 54" diameter	78998	16"	165 lbs.
*SPW 78976	1000 gallon round tank 87" long x 65" diameter	78998	16"	225 lbs.
SPP 74885	4" Vent Insert for 16" lid			



Elliptical tanks w/sump

PART NO.	DESCRIPTION	LID PART NO.	LID SIZE	APPROX. WEIGHT
*SPW 78977	300 gallon elliptical tank 30" high, 48" wide, 66" long	75693	10"	81 lbs.
**SPW 78978	500 gallon elliptical tank 36" high, 57" wide, 82" long	74754	10"	126 lbs.
*SPW 78979	750 gallon elliptical tank 42" high, 69" wide, 88" long	74756	16"	231 lbs.
*SPW 78986	1000 gallon elliptical tank 49" high, 78" wide, 90" long	74756	16"	271 lbs.
*SPW 78987	1300 gallon elliptical tank 60" high, 86" wide, 90" long	75693	10"	251 lbs.
*SPW 78988	1600 gallon elliptical tank 49" high, 78" wide, 138" long & baffle	74756	16"	420 lbs.
SPW 78989	2600 gallon elliptical tank 69" high, 88" wide, 142" long c/w one 3" poly bolt together fitting & 2 baffles	74756	16"	549 lbs.



Cut-a-way tanks

PART NO.	DESCRIPTION	LID PART NO.	LID SIZE	APPROX. WEIGHT
**SPW 78990	200 gallon cut-a-way tank 44" high, 24" wide, 60" long	75700	10"	66 lbs.
**SPW 78991	200 gallon cut-a-way tank 40" high, 31" wide, 53" long	75700	10"	62 lbs.

\* 2" fitting

\*\*3/4" x 1 1/4" fitting

**ATV Tank**

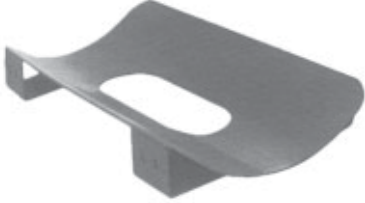
- 16 & 24 Gallon Tank designed for ATV's
- Wrap around design allows for a low center of gravity
- Complete drainage from twin sumps

PART NO.	DESCRIPTION
SPW 75130	16 Gallon Tank
SPW 75131	24 Gallon Tank



## Saddle & Straps for Tanks

### SADDLE & STRAPS FOR ROUND HORIZONTAL SPRAYER TANKS

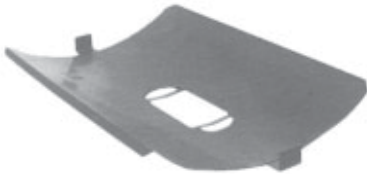


PART NO.	DESCRIPTION AND TANK DIA.	HARDWARE BAGS FOR SADDLES
SPW WP110S	Saddle for 65 and 110 gallon tank (30" diameter)	SPP 78269
SPW WP150S	Saddle for 150 gallon tank (32" diameter)	SPP 78270
SPW WP200S	Saddle for 200 gallon tank (38" diameter)	SPP 78326



PART NO.	DESCRIPTION AND TANK DIA.	HARDWARE BAGS FOR SADDLES
SPW WP200SHD	HD saddle for 200 gallon tank 38" diameter	SPP 78326
SPW WP300SHD	HD Saddle for 300 gallon tank 38" diameter	SPP 78326
SPW 79331	Saddle for 400 gallon tank 42" diameter	SPP 78322
SPW 79332	Saddle for 500 gallon tank 48" diameter	SPP 78322

### SADDLE & STRAPS FOR ELLIPTICAL HORIZONTAL SPRAYER TANKS



PART NO.	DESCRIPTION AND TANK DIA.	HARDWARE BAGS FOR SADDLES
SPW 79556	Saddle for 300 gallon elliptical tank	SPP 78325
SPW 79557	Saddle for 500 gallon elliptical tank	SPP 78324
SPW 79559	Saddle for 750 gallon elliptical tank	SPP 78327

### SADDLE & STRAPS FOR ELLIPTICAL HORIZONTAL SPRAYER TANK (1000 GALLON)

PART NO.	DESCRIPTION
SPW 75062	Saddle for 1000 Gallon Elliptical Tank



**Polyethylene Storage Tanks (US Gallons)**



Mini bulk chemical storage tank

PART NO.	DESCRIPTION	LID PART NO.	LID SIZE	APPROX. WEIGHT
SPW 78992	125 gallon mini-bulk storage tank 42" wide, 28 <sup>1</sup> / <sub>2</sub> " high	75691	5"	41 lbs.
SPW 78993	200 gallon mini-bulk storage tank 42" wide, 42 <sup>1</sup> / <sub>2</sub> " high	75691	5"	55 lbs.

5" fill opening - (1) 2" top fitting for pump  
Does not include pump

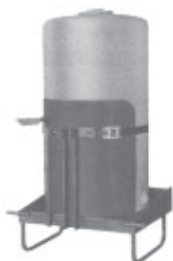


Bulk storage containers  
c/w 2" fitting installed

PART NO.	DESCRIPTION	LID PART NO.	LID SIZE	APPROX. WEIGHT
SPW 78994	550 gallon poly storage tank 52" diameter x 66" high	74758	8"	116 lbs.
SPW 78995	1050 gallon poly storage tank 85" diameter x 52" high	74759	16"	190 lbs.
SPW 78997	1300 gallon poly storage tank 84" diameter x 65" high	74756	16"	205 lbs.
SPW 78900	1600 gallon poly storage tank 84" diameter x 78" high	74756	16"	276 lbs.
SPW 78901	2300 gallon poly storage tank 96" diameter x 86" high	74756	16"	412 lbs.
SPW 78996	2500 gallon poly storage tank 90" diameter x 100" high	74759	16"	420 lbs.



SPW 78906

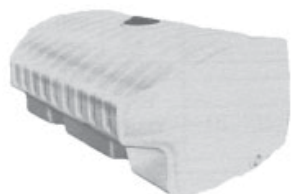


SPW 79330  
Shown w/tank

PART NO.	DESCRIPTION	LID PART NO.	LID SIZE	APPROX. WEIGHT
SPW 78906	65 gallon vertical tank 23" x 42" high, 1" fitting	79107	5"	25 lbs.
SPW 79330	65 gallon 3 point carrier includes strap			60 lbs.

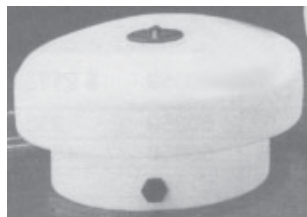
**FOR PUMP AND HANDGUN KIT SEE PAGE 6-10**  
**FOR BOOM KITS SEE PAGE 8-1**

**Polyethylene Pick-Up Tanks**



c/w 2" fitting installed

PART NO.	DESCRIPTION	LID PART NO.	LID SIZE	APPROX. WEIGHT
SPW 78902	150 gallon pick-up tank 25" high, 40" long, 36" base width, 52" top width	75700	10"	56 lbs.
SPW 78903	300 gallon pick-up tank 32" high, 49" long, 48" base width, 60" top width	75700	10"	111 lbs.
SPW 78904	500 gallon pick-up tank 32" high, 82" long, 48" base width, 60" top width	74754	10"	160 lbs.



c/w 2" fitting installed

PART NO.	DESCRIPTION	LID PART NO.	LID SIZE	APPROX. WEIGHT
SPW 78911	300 gallon round pick-up tank 30" high x 65" diameter, 48 <sup>1</sup> / <sub>2</sub> " base	79129	8"	70 lbs.
SPW 78912	500 gallon round pick-up tank 45" high x 65" diameter, 48 <sup>1</sup> / <sub>2</sub> " base	79129	8"	115 lbs.

## Chemical Mix-Fill Kit



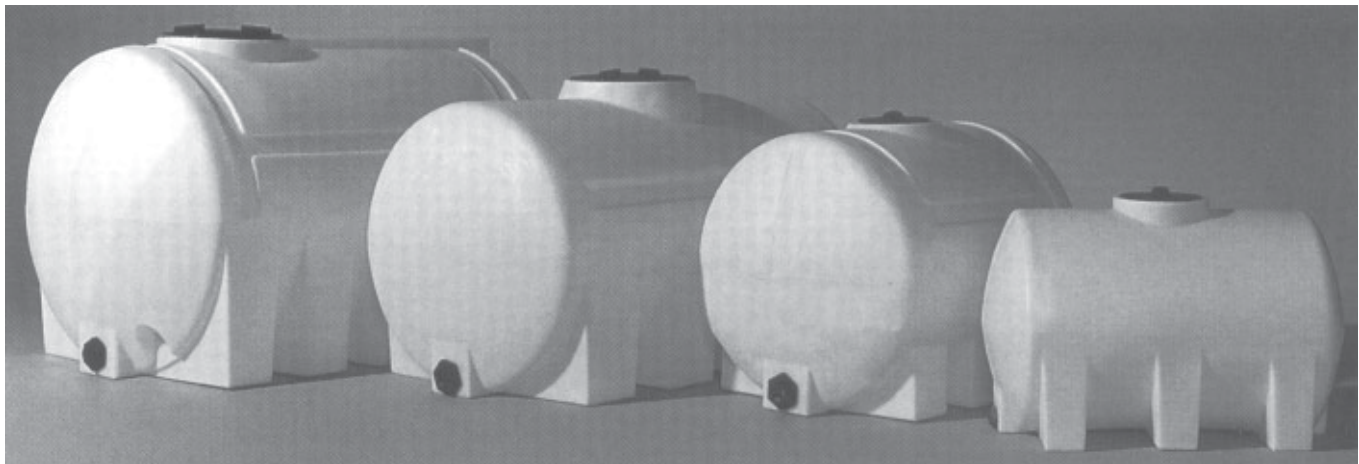
Tank shown with stand

### 15,30 & 60 GALLON

Tapered Funnel design ensures complete drainage. Gallonage indicator marked on side of tank. Ease in filling sprayer tank. 2" bottom drain fitting. Install in suction line of sprayer.

PART NO.	DESCRIPTION	LID PART NO.	LID SIZE	APPROX. WEIGHT
SPW 78905	15 gallon poly tank (cone shaped)	74760	12"	10 lbs.
SPW 78907	30 gallon poly tank (cone shaped)	74760	12"	14 lbs.
SPW 78908	60 gallon poly tank (cone shaped)	74760	12"	22 lbs.
SPW 78909	Free standing tank holder for 15 gallon tank c/w hardware	-	-	12 lbs.
SPW 78910	Free standing tank holder for 30 and 60 gallon tank c/w hardware	-	-	15 lbs.

## Polyethylene Leg Tanks



c/w 2" fittings installed

PART NO.	DESCRIPTION	LID PART NO.	LID SIZE	APPROX. WEIGHT
SPW 78913	125 gallon leg tank 29" wide x 45" long	79129	8"	45 lbs.
SPW 78914	200 gallon leg tank 38" wide x 51" long	79129	8"	65 lbs.
SPW 78915	400 gallon leg tank 42" wide x 78" long	78998	16"	110 lbs.
SPW 78916	625 gallon leg tank 48" wide x 83" long	78998	16"	152 lbs.
*SPW 78917	1025 gallon leg tank 49" wide x 139" long	74761	16"	302 lbs.
*SPW 74770	Steel band galvanized (set of 4)	-	-	-
SPP 74885	4" Vent Insert for 78998 lid			

\*78917 leg tank requires support bands and requires full length support. 4 support bands required part no. 74770 warranty void if bands not used.

## Tank Cleaning Agent

Nutra-Sol cleaning agent especially designed to clean sprayers. Removes dirt, scale and rust from spray booms and tanks, as well as neutralizing the chemical action of spray chemicals previously used in this equipment. A completely soluble powder.

Recommended to be used for flushing sprayers after each time used. Reduces corrosion in tanks and pumps.

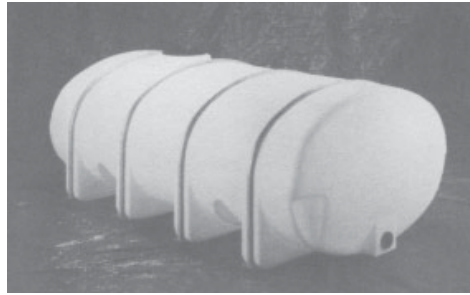
PART NO.	DESCRIPTION
74993	2 lb. can





**Norwesco Elliptical Leg Tanks (US Gallons)**

79315, 79316  
shown with  
74774 bands



- Made for safe TRANSPORT - these tanks are the best way to haul large volumes of fluids.
- Provides the greatest capacity with the lowest centre-of-gravity for maximum stability.
- Low profile and molded-in legs for maximum visibility and stability during transport.
- Flow-through baffles to reduce surging without “trapping” liquids in the tank.
- Domed ends provide maximum strength and further reduce effects of surging.
- Interior siphon on bulkhead fittings to maximize drainage.
- All elliptical leg tanks require support bands

**PREMIUM WEIGHT (14.6 LBS. PER GALLON)**

PART NO.	DESCRIPTION	LID PART NO.	LID SIZE	FITTING SIZE
SPW 78918	1035 gallon leg tank 79" wide, 89" long, 53" high	74761	16"	2"
SPW 78919	1235 gallon leg tank 65" wide, 128" long, 52" high	74761	16"	2"
SPW 79313	1635 gallon leg tank 71" wide, 142" long, 57" high	74761	16"	2"
SPW 79315	2035 gallon leg tank 84" wide, 142" long, 57" high	74761	16"	2"
SPW 79317	2635 gallon leg tank 90" wide, 140" long, 71" high	74761	16"	3"
SPW 79319	3135 gallon leg tank 88" wide, 151" long, 76" high	74761	16"	3"
SPW 75191	4035 gallon leg tank 92" wide, 192" long, 77" high	74761	16"	3"

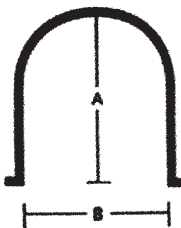
**HEAVY DUTY (19.3 LBS. PER GALLON)**

PART NO.	DESCRIPTION	LID PART NO.	LID SIZE	FITTING SIZE
SPW 79314	1635 gallon leg tank 71" wide, 142" long, 57" high	74761	16"	2"
SPW 79316	2035 gallon leg tank 84" wide, 142" long, 57" high	74761	16"	2"
SPW 79318	2635 gallon leg tank 90" wide, 140" long, 71" high	74761	16"	3"
SPW 79320	3135 gallon leg tank 88" wide, 151" long, 76" high	74761	16"	3"
SPW 75192	4035 gallon leg tank 92" wide, 191" long, 76" high	74761	16"	3"

**STEEL SUPPORT BANDS FOR ELLIPTICAL LEG TANKS**

- Performs two functions - secures tank to truck or trailer deck, and - supports tank walls for extra service life.
- Custom-manufactured heavy-duty steel pipe especially to fit Norwesco tanks.
- Bands are galvanized for extra protection against corrosion.
- Welded-on “feet” to secure to truck or trailer platform.
- Tank warranty may be voided if bands are not used with above elliptical leg tanks.

PART NO.	NO. REQ'D	TANK SIZE (US GAL)	FOR ELLIPTICAL LEG TANK NO.	DESCRIPTION	Dimension	
					A	B
SPW 74771	3	1035	78918	Steel bands (galvanized)		
SPW 74772	4	1235	78919	Steel bands (galvanized)	77"	47..."
SPW 74773	4	1635	79313, 79314	Steel bands (galvanized)	64 "	47 "
SPW 74774	4	2035	79315, 79316	Steel bands (galvanized)	51	68
SPW 74775	4	2635	79317, 79318	Steel bands (galvanized)	51..."	81%"
SPW 74776	4	3135	79319, 79320	Steel bands (galvanized)	65..."	87%"
SPW 75193	4	4035	Fits 75191, 75192	Steel bands (galvanized)	75..."	85%"
SPW 74777	1 opt.	2635	Fits 79317, 79318	Steel ladder (galvanized)	70..."	89%"
SPW 74777	1 opt.	3135	Fits 79319, 79320	Steel ladder (galvanized)		
SPW 74778	1 opt.	3135	Fits 79319, 79320	Ladder Adapter*		



*Note: We do not recommend the use of winch straps to tie-down Elliptical Leg tanks - they will distort them, reducing the useful life of the tank.*

## InDoor Drinking Water Storage Tanks

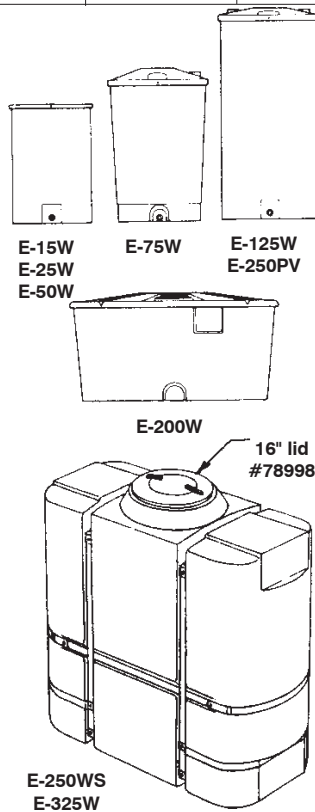
- Approved for potable water.
- Designed to fit through most doorways.
- Steel frame for structural support - powder coated black (some models)
- One-piece molded tank - will not leak.
- Flat mounting areas for fittings of choice (not included).
- Ideal tank for indoor water storage to feed pressure systems.

### POLYETHYLENE INDOOR WATER AND STORAGE TANKS

PART NO.	MODEL	CAPACITY GAL(LITRES)	DIAMETER IN/(MM)	HEIGHT IN/(MM)
SPW 79321	E-15W	15 (68)	15 <sup>1</sup> / <sub>4</sub> "(387)	22 <sup>1</sup> / <sub>2</sub> " (572)
SPW 79322	E-25W	25 (114)	19 <sup>1</sup> / <sub>4</sub> " (489)	19 <sup>1</sup> / <sub>4</sub> " (743)
SPW 79323	E-50W	50 (227)	21 <sup>1</sup> / <sub>2</sub> " (622)	37 <sup>1</sup> / <sub>4</sub> " (946)
SPW 79324	E-75W	75 (340)	28 <sup>1</sup> / <sub>2</sub> " (718)	47 <sup>1</sup> / <sub>2</sub> " (1206)
SPW 79325	E-125W	125 (568)	29 <sup>1</sup> / <sub>2</sub> " (749)	64" (1625)
SPW 79326	E-200W	200 (910)	58" (1475)	30" (760)
SPW 79327	E-250PV	250 (1135)	36" (915)	84" (2130)
SPW 79328	E-250WS	250 (1135)	61"	48"
SPW 79329	E-325W	325 (1476)	61"	60"



PART NO.	DESCRIPTION
79118	5" Lid
79129	8" Lid
78998	16" Lid



Many other sizes of tanks available including septic tanks, low profile water storage tanks and two piece bolt together tanks.  
 Call your Westward Parts Services Ltd. order desk for details.

**24 Gallon E-Z ATV Sprayers**

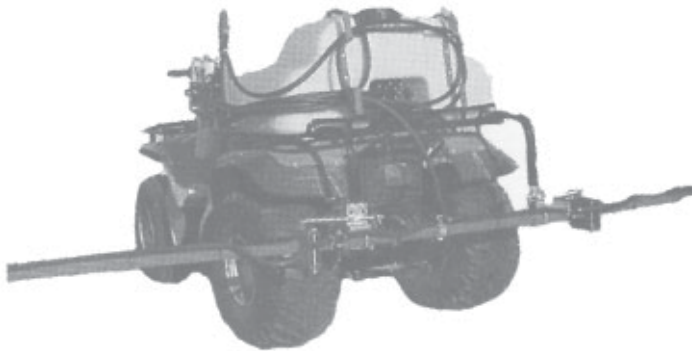
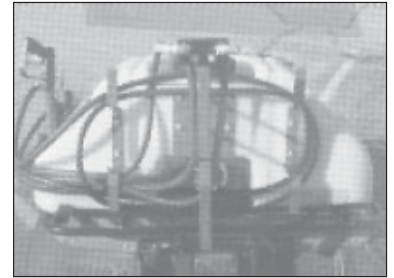
The E-Z Series of sprayers feature a 16 and 24 gallon tank specifically designed for ATV's. The unique wrap around design allows for a low center of gravity, complete drainage from twin sumps, and easy mounting and dismounting of sprayer as controls and booms are mounted to the tank and not the ATV rack. All models are standard with a 12 volt pump, no drip hand gun with 12 ft. hose, in-line strainer, and main line valve.



This boomless unit includes 4.0 gpm 12 volt pump, trigger style handgun with adjustable brass nozzle, pressure control, and conveniently located left and right control valves for a pair of mounted boomless stainless nozzles. Total spray width with both nozzles is 25 feet.

GPA ranges from 20 gpa at 3 mph to 6.6 gpa at 9 mph.

PART NO.
SPW 75132



This unit includes 4.0 gpm 12 volt pump, trigger style handgun with adjustable brass nozzle, pressure control, and conveniently located boom on-off control valve for a 12' or 18' boom. The boom features spring loaded hinges to protect it from collisions and folds for transport. The boom is plumbed for flood nozzles on 40" spacing and is shipped with one set of #2 floods. Boom is easily removed by removing 2 lock pins.

PART NO.	DESCRIPTION
SPW 75133	12 ft. Boom
SPW 75134	18 ft. Boom



PART NO.	DESCRIPTION
SPW 75135	Features both Boom and Boomless options in one easy convenient package.
SPW 75136	Front mount 16 gallon add-on tank for extra capacity, weight balance, and longer spraying time. Plumbing included.
SPW 75137	This spot sprayer unit includes 1.4 gpm 12 volt demand pump, trigger style handgun with adjustable brass nozzle, pressure control, and gauge.

**75135 C/W 75136 SHOWN**

## Foam Markers

New row markers provide uniform sprayer application by helping to prevent spray overlapping or skipping in the field.

Westward Foam Markers are fully assembled, ready to use, compact 12 volt systems designed for dependable, low cost. Combines air and foam solution at the end of the boom and is recommended for booms 60' and longer. This unit includes a switch box with 10' battery leads and 20' cable to the foamer module. This foamer features molded mounting lugs in the bottom end and strapping areas to allow easy installation on any sprayer. We recommend Westward foam marker concentrate be used with this marking system. Where conditions require other than white foam, add Westward concentrate to produce bright blue or pink foam.

Note: Unit is complete with hosing for 96' booms, for longer booms, appropriate length of 3/4" EVA tubing must be added. Example: for 110' boom add 7' of tubing to each end of unit.



PART NO.	DESCRIPTION
SPW FM25	25 US gallon super foamer

### FOAM AND COLOR CONCENTRATE

PART NO.	DESCRIPTION
SPP 74800	Foam concentrate solution (4L)
SPP 74815	Blue color concentrate solution
SPP 74817	Red color concentrate solution

1 US pint of color concentrate treats 50 US gallons of water

**PARTS BREAKDOWN SEE PAGE 9-32**

## Foam & Dye for Markers

PART NO.	REPLACES	DESCRIPTION
74800	AGFOAM	Foam solution for markers (4L)
74810	5173005	Red dye for markers - to be mixed with water (1 pint to 30 gallons).
74812	5173008	Red dye for markers - to be mixed with diesel fuel (1/2 pint to 10 gallons)



Hitex Agfoam Concentrate is a biodegradable, concentrated liquid surfactant manufactured for use with agricultural foam generating equipment to provide a high yield, dense, stable foam at high and low temperatures. The foam is used as a Field Row Marker for fertilizing and spraying applications.

Hitex Agfoam Concentrate generates a dense stable foam that has excellent non-wetting properties so that the foam dissipates very slowly, even in extreme hot and cold weather conditions.

Hitex Agfoam Concentrate is safe for use with all types of agricultural foam generating equipment used for row marking. It incorporates a sequestering agent for hard water applications. Hitex Agfoam is easily biodegradable and quickly becomes a part of the natural environment after use.

	Agfoam Concentrate	SOFT WATER
Metric	add 1.25 litres - 1.5 litres	to 50 litres
U.S. Measure	add 32 fluid oz. - 40 fluid oz.	to 10 U.S. gallons
Imperial Measure	add 40 fluid oz. - 48 fluid oz.	to 10 Imperial gallons
	Agfoam Concentrate	HARD WATER
Metric	add 1.75 litres - 2 litres	to 50 litres
U.S. Measure	add 46 fluid oz. - 52 fluid oz.	to 10 U.S. gallons
Imperial Measure	add 56 fluid oz. - 64 fluid oz.	to 10 Imperial gallons

## Field Sprayer Calibrator

### "SPRAY-CHECK"

Direct reading calibration scale tells exactly how many gallons per acre being applied. No complex calibration table, charts, etc.

Here's all you do:

1. Attach Spray-Check to any nozzle outlet.
2. Travel a test run of 150 feet.
3. Read actual "spray rate per acre" on scale.

PART NO.	REPLACES	DESCRIPTION
75050	5167014	Spray-Check
74746	-	Calibration cup



75050

**AP-2**

**2 LITRE AUTOMATIC COMPRESSION SPRAYER**



<b>PART NO.</b>
SPW AP-2

**PARTS BREAKDOWN SEE PAGE 9-31**

**AP-20**



- Lever action piston pump
- 15 to 90 PSI
- Quick fitting harness
- 20 litre capacity

<b>PART NO.</b>
SPW AP-20

**PARTS BREAKDOWN SEE PAGE 9-31**

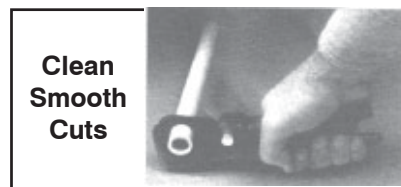
**Pipe Cutter**

This cutter will cut faster than any other pipe cutter made and do it without creating burrs or sawdust.

Cuts Polyethylene, Polybutylene, PVC, ABS, rubber hose. Cuts all sizes up to 1 1/4" ID. Its fast, clean, safe, small and light. Strong, tough nylon handles and replaceable stainless steel blades.



PART NO.	DESCRIPTION
73070	Li'l Nipper hose cutter
73071	Replacement blade SS



**Wind Wizard**

A hand held meter to measure the speed of the wind before you spray.



<b>PART NO.</b>
75051

**Digital Wind Meters**

Pocket air velocity meters with displays of temperature, humidity, dew point. LCD display with user selectable measuring units or dual display. Auto shutoff, water resistant, and will float if dropped in water. Hard case and lanyard included.

PART NO.	REPLACES	DESCRIPTION
75124	500 PWM1	Wind speed only
75125	500 PWM2	Wind speed, temp, wind chill
75126	500 PWM3	Wind speed, Temp, Humidity, Wind Chill
75127	500 45118	Wind speed, temp
75128	500 45158	Wind speed, Temp, Humidity

**TEEJET 38560 WIND METER**

- Measures wind velocity on three scales. Beaufort, MPH (miles per hour) and m/sec (meters per second).
- Wide wind velocity range.
- Compact and lightweight for convenient transport and storage.
- Easy to operate and maintain.



**PART# 75129**

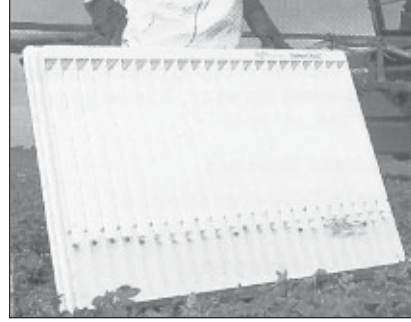
## TeeJet Accessories



### TEEJET® TIP TESTER

The TeeJet tip tester helps identify worn spray tips quickly and easily. This hand held flowmeter allows you to check all spray tips for uniform flow rates in minutes. Just attach the adapter over a spray tip and read the approximate flow rate in liters per minute (l/min) directly from the scale. Two adapters are provided to fit all types of conventional and quick-attach nozzle caps. Each tip tester is supplied with a TeeJet nozzle cleaning brush in the built-in storage compartment.

**PART NO. 76818**



### TEEJET® PATTERN CHECK

Successful applications depend on a quality pattern from your spray tips and proper operation of your spraying equipment. The TeeJet pattern check makes it easy to see if your sprayer is properly set up to provide the even distribution needed for safe and effective pest control. By sliding the pattern check under the sprayer boom while spraying clean water, you get an immediate indication of the spray distribution along the boom.

**PART NO. 76819**

### TEEJET TIP CLEANING BRUSH



**PART NO. 75169**

**Shurflo - Electric Back Pack Sprayer**

**PROPACK MODEL SRS-540  
RECHARGEABLE ELECTRIC BACKPACK SPRAYER**

New from SHURflo, the SRS-540 offers breakthrough performance, convenience, versatility and comfort in a backpack sprayer. ProPack™ eliminates the need for the operator to continually "pump up" the sprayer to maintain a constant and steady spray pattern as with manually powered sprayers, making spraying faster and easier than ever.

The ProPack's micro-processor control allows the operator to select one of four pump speeds, that when used in conjunction with the included adjustable cone nozzle can deliver a delicate mist, high volume spray, or long-range stream to meet any spraying need.

The unique battery pack can be charged in place, or easily removed without the use of tools for remote charging. The lightweight ergonomically designed tank, full breathable pack pad, thick resilient shoulder pads, and waist belt make the ProPack™ comfortable even with a full load.

- **SPRAYS UP TO 120 GALLONS (454 LITERS) ON A SINGLE CHARGE**
- **HIGH PERFORMANCE CHEMICAL RESISTANT SHURFLO PUMP**
- **ADVANCED MICROPROCESSOR PUMP CONTROL**
- **VARIABLE SPEED AND ADJUSTABLE NOZZLE FOR LIGHT OR HEAVY DUTY SPRAYING**
- **ULTRA COMFORTABLE ERGONOMIC DESIGN, FULL BACK PAD, AND THICKLY PADDED SHOULDER HARNESS**

**SHURflo**®  
*First in Fluid Innovation™*



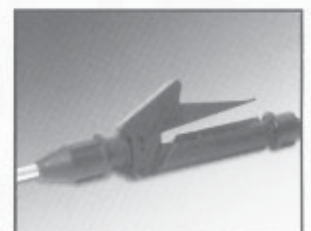
**PART NO. SPW SRS-540**

**TECHNICAL SPECIFICATIONS**

Tank Material	Polyethylene
Tank Capacity	4 US gallons
Battery	12 Volt, 7.0 Amp/Hour Sealed Lead/Acid
Charger	Automatic Sealed Lead Acid 120 Volt
Pump	12 VDC, 1.0 GPM Max 40-PSI Demand Switch
Pump Material of Construction	Polypropylene Pump Body, Viton valves, Santoprene Diaphragm
Duty Cycle	Intermittent
Spray Hose	Reinforced/Braided PVC
Spray Wand	Polypropylene handle, aluminum lance, Brass Tip, Adjustable Cone/Stream Pattern



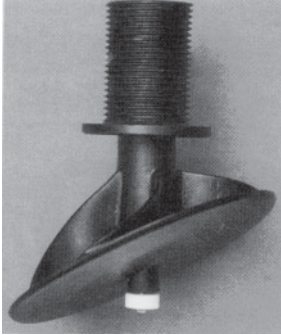
Convenient Battery pack charges in place or removes in seconds for remote charging



- 24" (61 cm) spray lance provides easy reach for accurate spraying
- Adjustable spray tip provides a uniform cone pattern
- When in the maximum open position the tip delivers a long range stream for easy spraying of hard to reach areas
- Heavy duty hand lever can be locked in the open position reducing operator fatigue on big jobs

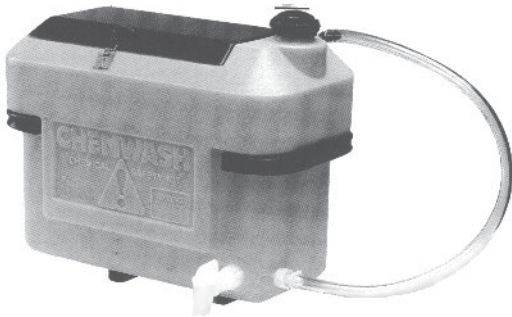
**PARTS BREAKDOWN PAGE 9-36**

## Sprayer Tank Rinse Nozzle



PART NO.	REPLACES	DESCRIPTION
75618	PW-R15	RotaFlush rinse nozzles mount to top of tank. Allows fast double or triple rinse using a fraction of the water used to fill-flush. Used in conjunction with clean water tank. Minimal installation time. Permits tank spray-out in the field. Less operator exposure. Less downtime during spraying season. Less water hauling. Includes nozzle, washers, back nut, elbow for 1" hose. Most sprayers will require 2 RotaFlush nozzles.

## Chemwash Emergency Wash Kit



PART NO.	REPLACES	DESCRIPTION
75619	MH-CW/Y	Chemwash emergency wash kit. For agricultural or industrial applications, The Chemwash has a large 20-litre (5.25 US gallon) reservoir to provide a source of clean water onsite at the sources of potential spills or accidents. Comes complete with a lidded compartment for gloves/goggles, and a heavy duty universal C-frame for bolting or welding onto an applicator. Breakaway hose for rapid gravity-feed. Spigot for controlled flow uses. 20" L x 9 <sup>3</sup> / <sub>4</sub> " W x 13 <sup>1</sup> / <sub>2</sub> " H.

### PARTS FOR CHEMWASH

PART NO.	DESCRIPTION
75615	Screw on lid
75614	Flip up lid
75617	Kit c/w hose, hose barb, elbow, clamp and spigot



**Tank Accessories**



REF	PART NO.	DESCRIPTION
1	79135	Nylon tank strap (per foot)
2	79134	Buckle for tank strap - bent

1

2



REF	PART NO.	DESCRIPTION
3	79165	Hook bolt for buckle 1/2" x 6"
3	79044	Hook bolt 3/8" x 6"

3



REF	PART NO.	DESCRIPTION
4	75631	10" polyethylene tank filter basket screen (fits 10" fillwell)

4

**Tank Lids & Fillwell Rings**



PART NO.	REPLACES	DESCRIPTION
74758	10525	8" threaded lid - Ace
79107	L05A	5" screw type lid - Ace
74756	10526	16" threaded lid - Ace
79118		5" threaded lid Equinox
79129		8" threaded lid Equinox
78998		16" threaded lid Equinox
74754	5478R	10" threaded lid - Raven
74755	5479R	Fillwell ring for 74754
74756	5470R	16" fillwell w/cover - Raven
74757	5464R	16" fillwell ring - Raven
75702	5058037	5" fiberglass tank lid - Raven
75703	5110110	5" fiberglass fillwell ring - Raven
75704	5058042	10" fiberglass tank lid w/external locking lugs - Raven
75705	5110111	10" fiberglass fillwell ring - Raven
75690	5058091	2" screw type lid ( for 12 gallon Solar tank)
75691	5058090	5" screw type lid ( for 25 gallon Solar tank)
75693	5058122	10" threaded tank lid Solar
75700	5058041	10" polyethylene tank lid (for Solar tank) - 1/4 turn type
75701	5110099	10" polyethylene tank lid fillwell ring - 1/4 turn type
75694	5110271	Threaded fillwell for 75693 lid
75692	5058124	Tank lid vent for 75693 lid
78404		Tank lid vent for 78998 lid

**Repair Kits for Tanks**

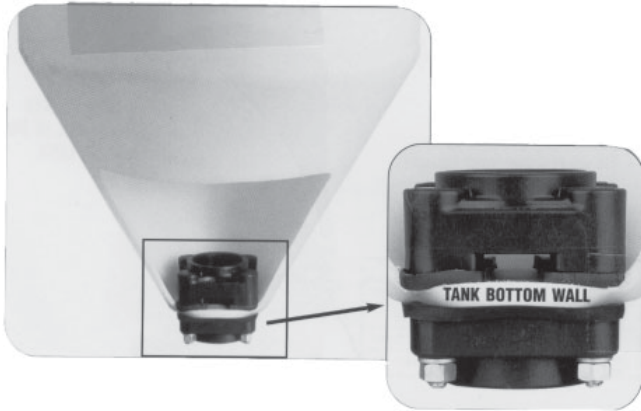
PART NO.	REPLACES	DESCRIPTION
75710	5168243	Poly-patch repair kit for poly tanks
75711	5168214	High density poly welding rod, for poly tank repairs (per ft.)
75712	5073-A	Fiberglass tank repair kit

**Tank Adapter**

PART NO.	REPLACES	DESCRIPTION
75721	T20CM	2" MPT x 1 1/4" FPT x 3/4" MPT x 1/2" FPT



## Banjo Poly Bolted Tank Flanges



Fits most cone bottom & chemical inductor tanks, 30 gallons and larger.  
 Allows 100% Rinse Free - No Sediment Build Up!

Excellent for avoiding herbicide cross contamination!

Bolted design for superior strength!

Features:

- Stainless steel bolts
- Bolt head plugs: Sealed ultrasonically
- Glass reinforced polypropylene
- EPDM gasket standard

### GASKET FOR "BOTTOM DRAIN" POLY TANK FLANGES

EPDM PART NO.	EPDM REPLACES	VITON PART NO.	VITON REPLACES	DESCRIPTION	FLANGE SIZE
76382	BF100GE	74701	BF100GV	Full gasket	3/4", 1", 1 1/4"
76402	BF100GRE	74702	BF100GRV	Foot gasket	3/4", 1", 1 1/4"
73187	BF200GE	74703	BF200GV	Full gasket	1 1/2" & 2" standard port
76403	BF200GFE	74704	BF200GFV	Foot gasket	1 1/2" & 2" standard port, 2" full port
73758	200G	74705	200GV	Full gasket	2" full port
76385	BF300GE	74706	BF300GV	Full gasket	3"
76404	BF300GFE	74707	BF300GFV	Foot gasket	3"

### "BOTTOM DRAIN" POLY TANK FLANGES

PART NO.	REPLACES	DESCRIPTION
74596	BF075BD	3/4" x 1" threaded flange
74597	BF100BD	1" x 1" threaded flange
74598	BF125BD	1 1/4" x 1" threaded flange
74599	BF150BD	1 1/2" x 2" threaded standard port flange
74623	BF220BD	2" x 2" threaded full port flange
74624	BF300BD	3" x 3" threaded flange

**ULTRASONICALLY SEALED!**



Features:

- Stainless steel bolts
- Bolt head plugs sealed ultrasonically
- Glass reinforced polypropylene
- EPDM gaskets standard

### BOLTED FLANGE GASKETS

EPDM PART NO.	EPDM REPLACES	VITON PART NO.	VITON REPLACES	DESCRIPTION
76382	BF100GE	74701	BF100GV	3/4", 1", 1 1/4"
73187	BF200GE	74703	BF200GV	1 1/2" & 2" standard port
73758	200G	74705	200GV	2" full port
76385	BF300GE	74706	BF300GV	3"

### POLYPROPYLENE BOLTED TANK FLANGES

PART NO.	REPLACES	DESCRIPTION
74625	BF075	3/4" x 1" threaded flange
74632	BF100	1" x 1" threaded flange
74633	BF125	1 1/4" x 1" threaded flange
73184	BF150	1 1/2" x 2" threaded flange
73185	BF200	2" x 2" std. port threaded flange
74638	BF220	2" x 2" full port threaded flange
74639	BF300	3" x 3" threaded flange

**Bulkhead Tank Fittings**

**POLY BULKHEAD FITTINGS**

- Double sided threads.
- EPDM gaskets

PART NO.	DESCRIPTION
75645	1/2" poly bulkhead tank fitting
75640	3/4" poly bulkhead tank fitting
75644	1" poly bulkhead tank fitting
75641	1 1/4" poly bulkhead tank fitting
75642	1 1/2" poly bulkhead tank fitting
75643	2" poly bulkhead tank fitting
75646	3" poly bulkhead tank fitting



**316 STAINLESS STEEL BULKHEAD FITTINGS**

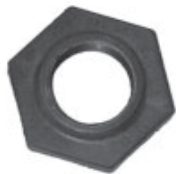
- Double sided threads
- Standard with EPDM gasket



PART NO.	FITS POLY BULKHEAD FITTING	DESCRIPTION
75660	75646 (1/2")	Gasket
75660	75640 (3/4")	Gasket
74594	75644 (1")	Gasket
75661	75641 (1 1/4")	Gasket
75663	75642 (1 1/2")	Gasket
75663	75643 (2")	Gasket
74595	75646 (3")	Gasket

PART NO.	REPLACES	DESCRIPTION	HOLE SIZE
75067	TF075SS	3/4" S.S. Bulkhead Tank Fitting	1 5/8"
75068	TF100SS	1" S.S. Bulkhead Tank Fitting	2 1/4"
75069	TF125SS	1 1/4" S.S. Bulkhead Tank Fitting	2 1/4"
75073	TF150SS	1 1/2" S.S. Bulkhead Tank Fitting	3"
75074	TF200SS	2" S.S. Bulkhead Tank Fitting	3"
75075	TF220SS	2" S.S. Bulkhead Tank Fitting	3 1/4"
75076	TF300SS	3" S.S. Bulkhead Tank Fitting	4 3/8"

**Bulkhead Tank Fittings for Fibreglass Tanks**



REF	PART NO.	REPLACES	DESCRIPTION
	75651	5031-AF	3/4" bulkhead fitting single thread (complete)
	75652	5035-AF	1 1/4" bulkhead fitting single thread (complete)
1	75670	5006105	Nut, 1 1/4" RH thread
1	75666	5006124	3/4" Nut LH Thread
1	75668	5006187	Nut LH Thread for 1 1/2" and 2"
1	75669	5006276	Nut LH Thread for 1 1/4"
2	75664	5075006	Washer Viton 3/4" Fitting
2	75671	5016132	Washer Nylon 3/4" Fitting
2	75672	5016133	Washer Nylon 1 1/4" Fitting
2	75674	5016168	Washer Nylon 1 1/2" and 2" Fitting
3	75680	5010106	Body 3/4"
3	75684	5010284	Body 1 1/4"
3	75681	5010188	Body 2"

**Anti Vortex Tank Flange**

- EPDM standard
- Prevents swirl in bottom of tank.

PART NO.	REPLACES	DESCRIPTION
75063	TF100AV	1" Tank Flange Anti Vortex
75064	TF125AV	1 1/4" Tank Flange Anti Vortex
75065	TF150AV	1 1/2" Tank Flange Anti Vortex
75066	TF200AV	2" Tank Flange Anti Vortex



## Banjo Vent Cap/Anti Vortex



- Features
- Male NPT
  - Glass reinforced polypropylene
  - 304 stainless steel screen

**VENT CAP FOR  
TOP OF TANK**



**ANTI  
VORTEX  
PREVENTS  
SWIRL IN  
BOTTOM  
OF TANK**

### POLYPROPYLENE BOLTED TANK FLANGES

PART NO.	REPLACES	DESCRIPTION
73832	VC230	2" vent cap/anti vortex with 16 mesh screen
73833	VC200	2" vent cap/anti vortex (without screen)
74708	VC330	3" vent cap/anti vortex with 10 mesh screen
74709	VC300	3" vent cap/anti vortex (without screen)

**TANK FLANGE SOLD SEPARATELY  
SEE PAGE 8-16**

## Banjo Poly Siphon Tubes



PART NO.	REPLACES	DESCRIPTION
74710	ST200	2" poly siphon tube
74711	ST300	3" poly siphon tube

## Stainless Steel Bolted Tank Flanges

- Features
- 316 Stainless Steel Construction
  - 1/2" Stainless Steel Bolts
  - Die Cut XLPE Gasket Standard
  - Precision Tooling for Accuracy on Each Fitting
  - EPDM or FKM (viton type) Gasket Available



### STAINLESS STEEL BOLTED FULL NIPPLE FLANGE

PART NO.	REPLACES	DESCRIPTION	PIPE SIZE
75059	BFN050SS	1/2" Male NPT x 1/2" Male NPT	1/2"
75112	BFN075SS	3/4" Male NPT x 3/4" Male NPT	3/4"
75113	BFN100SS	1" Male NPT x 1" Male NPT	1"
75114	BFN125SS	1 1/4" Male NPT x 1 1/4" Male NPT	1 1/4"
75115	BFN150SS	1 1/2" Male NPT x 1 1/2" Male NPT	1 1/2"
75116	BFN200SS	2" Male NPT x 2" Male NPT	2"
75117	BFN300SS	3" Male NPT x 3" Male NPT	3"
75118	BFN400SS	4" Male NPT x 4" Male NPT	4"

### STAINLESS STEEL BOLTED FULL COUPLING FLANGE

PART NO.	REPLACES	DESCRIPTION	PIPE SIZE
75119	BFC050SS	1/2" Female NPT x 1/2" Female NPT	1/2"
75077	BFC075SS	3/4" Female NPT x 3/4" Female NPT	3/4"
75078	BFC100SS	1" Female NPT x 1" Female NPT	1"
75079	BFC125SS	1 1/4" Female NPT x 1 1/4" Female NPT	1 1/4"
75120	BFC150SS	1 1/2" Female NPT x 1 1/2" Female NPT	1 1/2"
75121	BFC200SS	2" Female NPT x 2" Female NPT	2"
75122	BFC300SS	3" Female NPT x 3" Female NPT	3"
75123	BFC400SS	4" Female NPT x 4" Female NPT	4"



**TeeJet Container Rinsing Nozzles**



**VSM-**

- Used for inside rinsing of chemical containers
- 40 orifices combine to produce a 240° spray angle
- All nylon construction
- Available with 1/2", 3/4" NPT connection
- Recommended operating pressure 30-60 PSI

PART NO.	REPLACES	INLET PIPE CONNECTION	ORIFICE DIAMETER	CAPACITY - GPM						ANGLE
				20 PSI	30 PSI	40 PSI	60 PSI	80 PSI	100 PSI	
74728	VSM-1/2-28	1/2" NPT	.031"	3.9	4.8	5.5	6.7	7.8	8.7	240°
74729	VSM-1/2-44	1/2" NPT	.039"	6.1	7.5	8.6	10.6	12.2	13.7	240°
74730	VSM-3/4-90	3/4" NPT	.059"	12.5	15.3	17.7	22	25	28	240°
74731	VSM-3/4-140	3/4" NPT	.077"	19.4	24	27	34	39	43	240°
74732	VSM-3/4-190	3/4" NPT	.091"	26	32	37	46	53	59	240°

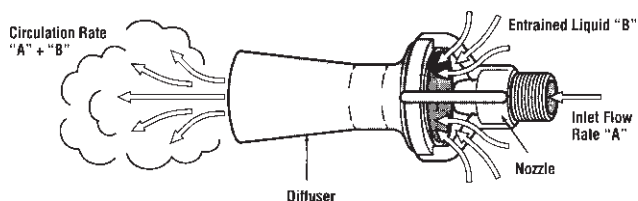
**TeeJet Eductor Nozzle**



**Y33180-PP & Y9270-PP**

**Features**

- Allows small pumps to circulate large volumes of liquid
- Manufactured of glass-filled polypropylene for excellent corrosion and chemical resistance
- Large flow opening minimizes plugging
- Available in 3/8" or 3/4" (M) pipe thread inlet connection



PART NO.	REPLACES	PIPE THREAD INLET CONNECTION	ORIFICE DIAMETER	LENGTH	DIAMETER
74733	Y33180-PP	3/8" (M)	5/16"	4 1/16"	2 1/16"
75616	Y9270-PP	3/4" (M)	3/8"	6 3/8"	2 29/32"


APPROXIMATE FLOW RATE PERFORMANCE	MODEL NO.	INLET LIQUID PRESSURE							
		10 PSI	15 PSI	20 PSI	25 PSI	30 PSI	35 PSI	40 PSI	50 PSI
Inlet Flow Rate "A" (GPM)	Y33180-PP	9	11	12.7	14	16	17	18	20
	Y9270-PP	13.5	17	19	21	23	25	27	30
Entrained Liquid "B" (GPM)	Y33180-PP	36	44	50.8	56	64	68	72	80
	Y9270-PP	54	68	76	84	92	100	108	120
Circulation Rate "A" + "B" (GPM)	Y33180-PP	45	55	63.5	70	80	85	90	110
	Y9270-PP	67.5	85	95	105	115	125	135	150

## TeeJet Tank Rinsing Nozzles

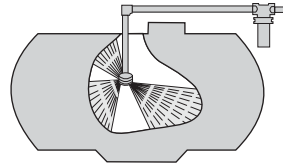


### 27500E-TEF

- The 27500 tank rinsing nozzle has a fluid-driven rotational spray head with orifices positioned to provide effective rinsing of sprayer tanks
- Provides 360° coverage of inside surface of tank
- Made of corrosion-resistant Teflon material
- Mounting connection - 3/4" NPT

PART NO.	CAPACITY - GPM					TYPE OF SPRAY COVERAGE	ANGLE
	10 PSI	20 PSI	30 PSI	40 PSI	50 PSI		
75602	9	12.7	15.6	18	20		360°

### TYPICAL APPLICATION



### D25468-POM/SS-7

- The rotary tank rinsing nozzle is used for rinsing the insides of chemical containers and spray tanks up to 6.5 feet in diameter
- Available with 1/2" NPT connections
- Rotating head is driven by the flow of the rinsing liquid, starts at pressure of less than 7 PSI
- Self-cleaning sliding bearing
- Body of Celcon-Delrin, flat spray inserts of 303 stainless steel
- Nozzles fits in 1 1/2" opening

PART NO.	REPLACES	CAPACITY - GPM				
		20 PSI	30 PSI	40 PSI	50 PSI	70 PSI
74725	D25468-POM/SS-7	4.9	6.0	7.0	7.8	9.2

## TeeJet Container Rinsing Nozzles

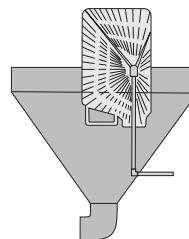
### 23240



- The 23240 container rinsing nozzle is used to rinse residue from containers before disposal
- Can be used for containers with 1 1/32" diameter openings or larger
- Three flat spray orifices provide self-rotational forces needed to create spherical coverage
- Made of 303 stainless steel with hardened stainless steel bearings and races for maximum wear life. Also includes an internal sleeve made of Teflon

PART NO.	REPLACES	INLET CONNECTION	CAPACITY - GPM				
			20 PSI	30 PSI	40 PSI	50 PSI	60 PSI
74726	23240-3-HSS-5.7-SS	1/2" NPT	4.0	4.9	5.7	6.4	7.0
74727	23240-3-HSS-7-SS	1/2" NPT	4.9	6.1	7.0	7.8	8.6

### TYPICAL APPLICATION



**TeeJet Jet Agitators**



**6290-SC**

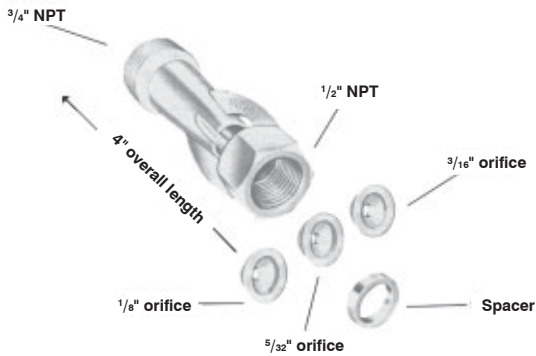
Made of brass. 1/4" NPT inlet connection. Fits through 2" hole. Weight 6 ounces. Siphon caps increase liquid flow by venturi action to increase mixing potential.

Installed at bottom of spray tank on end of agitator return line. Continuous solid stream jet flow creates turbulence and keeps wettable powders in suspension.

**Note:** Maximum tank sizes shown in table are approximate and are based on 40 PSI operation with pesticides, not fertilizers.

Body Part No.	Body Replaces	Orifice Cap Part No.	Orifice Cap Replaces Part no.	Orifice Cap Inlet Diameter	Capacity (GPM) Thru Agitator Line at Various Pressures						For Maximum Tank Size in Gallons of:
					10 PSI	15 PSI	20 PSI	30 PSI	40 PSI	50 PSI	
74734	6290 SC-1	74740	11118-1	.055"	.78	.96	1.1	1.4	1.6	1.8	50
74735	6290 SC-2	74741	11118-2	.086"	1.9	2.3	2.7	3.3	3.8	4.3	110
74736	6290 SC-3	74742	11118-3	.096"	2.4	2.9	3.3	4.1	4.7	5.3	140
74737	6290 SC-5	74743	11118-5	.144"	4.4	5.4	6.2	7.6	8.8	9.9	250
74738	6290 SC-8	74744	11118-8	.156"	5.1	6.3	7.2	8.8	10.2	11.4	300
74739	6290 SC-10	74745	11118-10	.177"	5.7	7.0	8.0	9.7	11.4	12.7	350

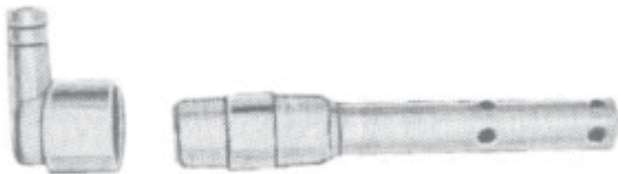
**Hypro Jet Agitator**



Jet action increases pump output as much as 3 and 4 times. Delivers volume needed for effective agitation of spray tanks to keep spray materials from settling out. Low pressure unrestricted discharge reduces foaming. Complete with three sizes of interchangeable nozzles that permit control of discharge. Tough, special formula nylon construction. Inlet is 1/2" NPT (female) outlet is 3/4" NPT (male)

PART NO.	REPLACES	DESCRIPTION
75600	3371	Agitator body, spacer ring, and 3 nozzles (1 each of 3 sizes)

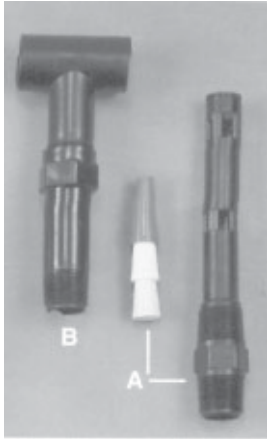
**Jet Agitator**



Agitator mounts in bottom of 3/4" tank fitting. Additional 3/4" thread protrudes to attach female pipe coupling or hose barb to agitator. For larger tanks, extra agitator may also be mounted in end tank fitting, to obtain dual agitation.

PART NO.	DESCRIPTION
75601	3/4" nylon agitator
73562	3/4" FNPT x 1/2" hose barb nylon elbow
73563	3/4" FNPT x 3/4" hose barb nylon elbow

## Delavan Jet Agitator



Tank agitator ( $\frac{3}{4}$ " NPTM inlet). Use this agitator to increase tank liquid circulation using the pump bypass liquid. Removal of end cap permits use in the horizontal position. By using a #37382 agitator tee, two agitators may be used for large tank installations which need additional liquid agitation. Four interchangeable, color-coded agitator orifices to accommodate bypass flows of 2.9 to 6.5 gpm at 30 PSI

PART NO.	REPLACES	DESCRIPTION
75612	36743	Agitator with venturies, $\frac{3}{4}$ " FPT inlet
75611	37382	Agitator tee

## Delavan Tank Agitator



Jet agitator provides agitation. Variable spring-loaded orifice maintains constant velocity regardless of amount of liquid being bypassed.  $\frac{3}{4}$ " NPT (F) inlet connects directly to bypass line. Venturies increase liquid volume  $2\frac{1}{2}$  times, but are detachable for use in small tanks. Inlet flow rate is 0-15 US gallons per minute.

**For Delavan Jet and Tank Agitators:**

**Max. recommended pressure:** 125 PSI (860 kPa)

**Max. recommended temperature:** 120°F (50°C)

PART NO.	REPLACES	DESCRIPTION
75610	25467	Tank agitator



**Tires & Tubes**



1 - Ribbed Tire

STYLE	TIRE PART NO.	TIRE SIZE	PLY RATING	TUBE SIZE	TUBE PART NO.
1	74712	3.00 x 4	4 ply	2.50/3.00 x 4	74718
1	74713	3.50 x 6	4 ply	3.50/4.00 x 6	74719
1	74714	4.00 x 4	4 ply	3.50/4.00 x 4	74720
1	74715	3.50 x 8	4 ply	3.50/4.00 x 8	74721



2 - Ribbed Tire

STYLE	TIRE PART NO.	TIRE SIZE	PLY RATING	TUBE SIZE	TUBE PART NO.
2	74716	16 x 6.50 - 8	4 ply	16 x 6.50 - 8	74722
2	74717	15 x 6.00 - 6	4 ply	15 x 6.00 - 6	74723



3 - Tire c/w rim and 3/4" ID bearing

STYLE	TIRE PART NO.	TIRE SIZE	PLY RATING	TUBE SIZE	TUBE PART NO.
3	78205	410 x 350 x 4	2 ply	4.00 x 4	74720
3	78206	13 x 5.00 x 6	2 ply	3.5 x 6	74724
3	79058	15 x 600 x 6	2 ply	tubeless	tubeless
3	HUB 400x8A	480/400 x 8	4 ply	tubeless	tubeless

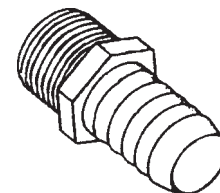
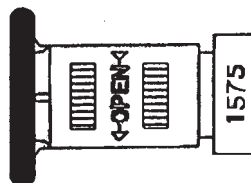
Note: Styles 1 & 2 you must order tube separately

**REPLACEMENT BEARINGS FOR STYLE 3**

PART NO.	DESCRIPTION
BEI ASF107-3	1/2" ID bearing
BEI ASF107-5	5/8" ID bearing
BEI ASF107-6	3/4" ID bearing

**Fire Hose Nozzle (Red Plastic)**

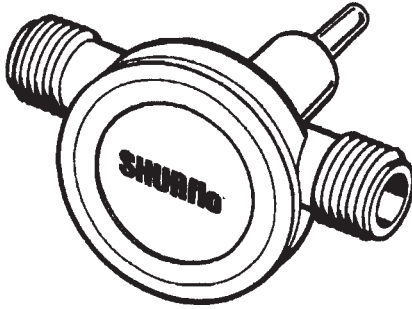
PART NO.	DESCRIPTION
75791	3/4" Nozzle GHT
75790	1" Nozzle NPSH
73603	1 1/2" Nozzle NPSH
75789	2" Nozzle NPSH



**HOSE BARBS  
SEE PAGE 5-20**

## Accessories

### DRILL PUMP



#### Features

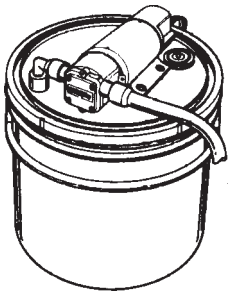
- Self-primers to 8 feet [2.4 m] vertical
- Pump liquids 40°F to 120°F [4.4°C to 48.8°C]
- BUNA impeller and seals
- 1/4" [6.35 mm] shaft fits standard drills

Attaches to any standard 1/4" [6.35 mm] drill motor. Ideal for pumping water from appliances, aquariums, water beds, sinks, toilets or drums. Includes a 1/4" [6.35 mm] oil probe that easily allows the transfer of oil from cars, trucks or lawn and farm engines and equipment.

*Not intended for use with flammable liquids, or in flammable environments.*

PART NO.	MODEL	PORTS	FLOW - OPEN	LPH
70313	3010-000	3/4" MGHT ports	200 gph	757

### OIL CHANGE SYSTEM



#### Features

- Complete with necessary tubing and oil storage container
- Built-in reversible switch and eight foot cable with battery clips
- Thermal overload protection
- BUNA-N impeller

Makes a messy job clean and easy. Simply install the oil probe in the engine oil dipstick tube, attach the battery clips, and flip a switch. Oil is safely removed and stored in the easy to carry container.

PART NO.	MODEL	PORTS
70314	3000-400	3/4" MGHT, 3/8" FPT

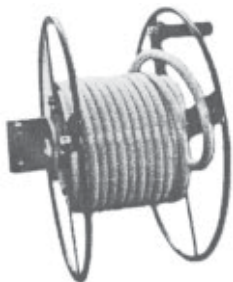


(hose not included)

### HOSE REEL - 3/8" HOSE (MANUAL WIND)

- 300 PSI
- 160°F
- Direct hand crank

PART NO.	DESCRIPTION	PART NO.	REPAIR KIT
75593	75' reel	74980	75' reel
74585	100' reel	74973	100' reel
74586	200' reel	74982	200' reel



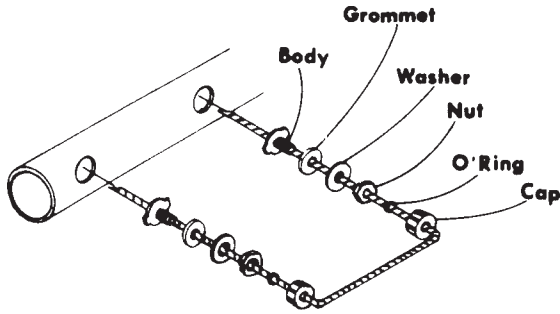
(hose not included)

### HOSE REEL - 1/2" HOSE (MANUAL WIND)

Handles 1/2" high pressure hose.

PART NO.	DESCRIPTION
74587	200' reel
74588	400' reel
72044	replacement swivel
78398	3/8" Brass hose barb fitting
78399	1/2" Brass hose barb fitting

**Rope Wick**

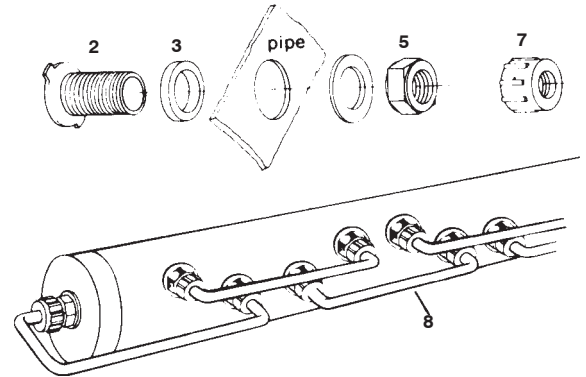
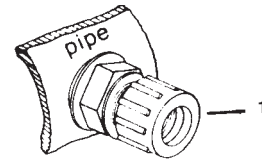


**MAKE YOUR OWN WICK WEED WIPER**

Installation Instructions

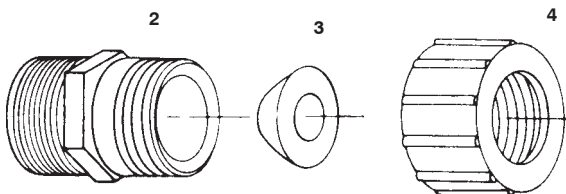
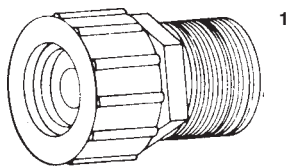
1. Mark centers for holes to be cut. Distance may range from 8-12 inches.
2. Use a 1" hole saw to cut hole. Standard bit may not allow washer to seal properly.
3. Cut rope at slant with hot blade or sharp knife then stop ravel by holding over flame to melt tip. Length should allow end to be in fluid to wick and sage between fittings. Est. 18" for 8" hole centers, 22" for 12" hole centers.
4. Slide fittings as shown in diagram.
5. Insert rope and fittings through hole and tighten. Nut will pull fitting up against plastic washer causing rubber grommet to expand and seal hole.

Note: These fittings are for PVC 1120 Thinwall, 160 PSI pipe, if heavier pipe is used two rubber grommets may be required to seal.



**ROPE WICK ASSEMBLY**

These fittings have 3/4" MPT threads and are for schedule 40 pipe.



REF	PART NO.	REPLACES	DESCRIPTION
1	74690	5067087	Rope wick assembly (each)
2	74691	5002360	Nylon body
3	74692	5072230	Rubber grommet
5	72532	5006184	Nylon nut
7	72400	8027	Nylon cap
8	74695	5113004	1/2" nylon braided rope (per ft.)

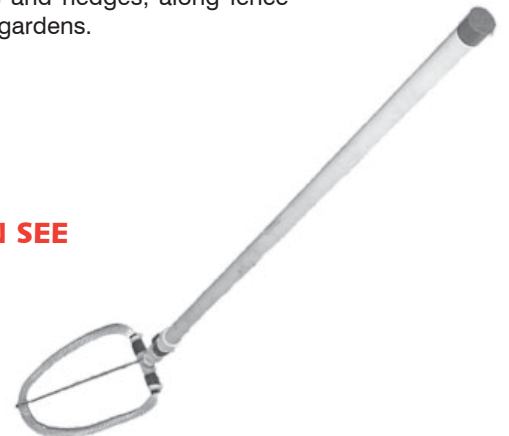
REF	PART NO.	REPLACES	DESCRIPTION
1	74696	5067088	Rope wick assembly (each)
2	73482	5005022	Nylon body
3	74698	5016154	Buna cone washer
4	74699	5006159	Nylon nut

**WAND WIPER**

Wipe under trees and hedges, along fence rows and in your gardens.

PART NO.
74700

**PARTS  
BREAKDOWN SEE  
PAGE 9-31**



## Plasti-Kote Finishes



### SUPER ENAMEL

Through years of research and practical application, Plasti-Kote has developed the most remarkably versatile spray paint available anywhere. Plasti-Kote SUPER ENAMELS dry fast to a beautiful high gloss finish. They can be recoated anytime. The wide variety of colours and primers available are fade and chip resistant; can be used on most surfaces, indoors or out. The finish will last for years. Totally lead free, Plasti-Kote ENAMELS are completely safe, even for children's toys and furniture. And what's more, they cover more square feet per can than the leading competition. That translates to real value. When your customers want the best . . . they want Plasti-Kote premium quality ENAMELS.



### FLUORESCENTS

Plasti-Kote HI-VISIBILITY FLUORESCENT spray paint is fast drying and the intense brilliant colours ensure instant visibility.

All Plasti-Kote FLUORESCENTS are formulated at the highest fluorescent pigmentation possible thus providing maximum visibility.

### TRACTOR & IMPLEMENT ENAMEL

TRACTOR & IMPLEMENT ENAMEL has been specially formulated to stand up against the roughest kind of outdoor exposure, and the weather resistant gloss finish protects against rust. It won't fade, chalk or peel. Plasti-Kote TRACTOR & IMPLEMENT colours are gasoline and oil resistant. The wide variety of colours available are precisely matched to the colour standard of leading farm and industrial equipment manufacturers. The perfect finish for all outdoor machinery needs.



### NON-SANDABLE GENERAL PURPOSE PRIMERS

For all purpose use to get a lasting, professional finish. Available in grey, red or black depending on shades of finish coat desired. For rustproofing rusted surfaces, after scale is removed.



**PLASTI-KOTE PREMIUM ENAMELS ARE SIMPLY THE FINEST SPRAY PAINT MADE . . .**

**NOTE: FOR PART NUMBERS AND PAINT COLORS SEE PAGE 8-27**

**Plasti-Kote Paint**

PART NO.	DESCRIPTION
----------	-------------

**COUNTER DISPLAY**

LUB T124	Box and Header Card only
----------	--------------------------

**SUPER ENAMEL**

LUB T1	Gloss Black 340G
LUB T2	Flat Black 340G
LUB T3	Hot Rod Black 340G
LUB T4	Gloss White 340G
LUB T5	Cleaar Lacquer 340G
LUB T6	Swift Red 340G
LUB T8	Satin Black 340G
LUB T9	Yellow 340G
LUB T10	Machinery Gray 340G
LUB T12	Shamrock Green 340G
LUB T16	Royal Blue 340G
LUB T23	Aluminum 340G

**FLOURESCENTS**

LUB FL6	Red 312G
LUB FL7	Green 312G
LUB FL9	Orange 312G

**PRIMERS**

LUB T18	Gray 340G
LUB T19	Red Oxide 340G
LUB T25	Black 340G

**TRACTOR & IMPLEMENT ENAMEL**

LUB 1350	Case Orange 340G
LUB 1362	Case Red 340G
LUB 1364	Case Black 340G
LUB 1359	Harvester Red 340G
LUB 1376	IHC White 340G
LUB 1351	Deere Yellow 340G
LUB 1360	Deere Green 340G
LUB 1352	Ford Gray 340G
LUB 1361	Ford Blue 340G
LUB 1372	Ford Red 340G
LUB 1353	Oliver Green 340G
LUB 1354	New AC Orange 340G
LUB 1355	New Cat Yellow 340G
LUB 1356	Cat Yellow 340G
LUB 1366	New Holland Red 340G
LUB 1368	New Holland Yellow 340G
LUB 1370	Hesston White 340G
LUB 1375	Kubota Orange 340G
LUB 1365	Massey Red 340G
LUB 1374	Massey Gray 340G

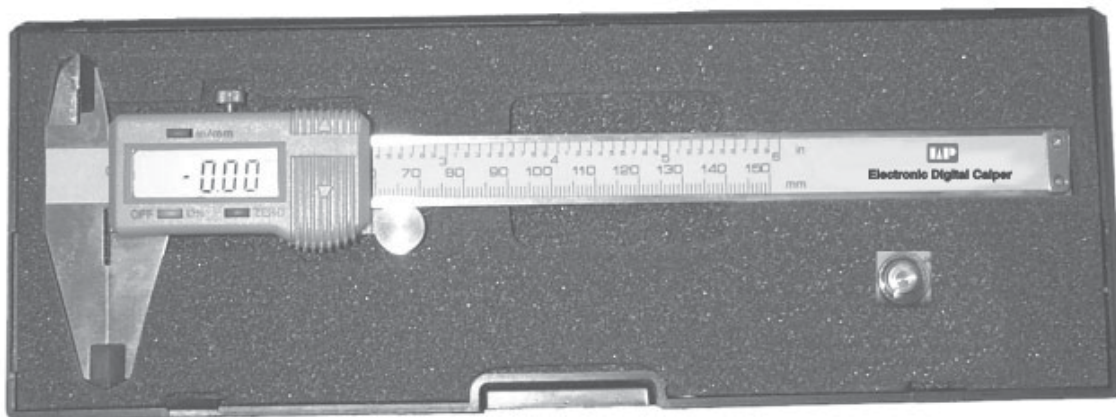
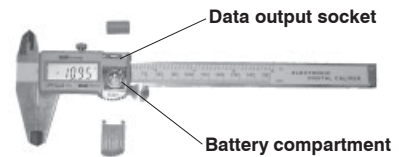
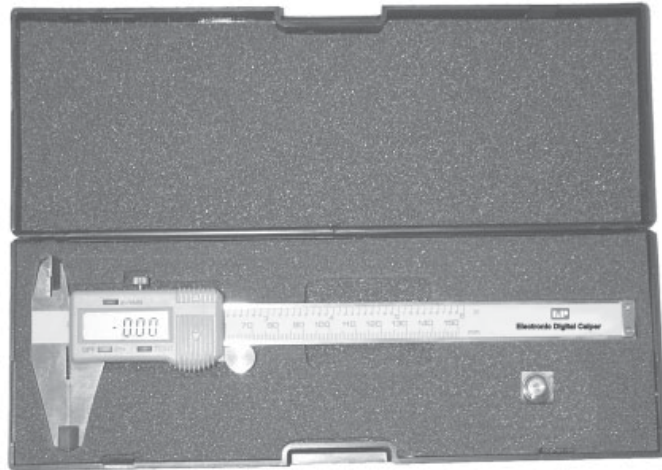


**COUNTER DISPLAY BOX AND HEADER CARD ONLY  
PART NO. LUB T124 HOLDS 24 CANS**

## Electronic Digital Caliper

- Metric/inch conversion
- On/off switch
- Zero function
- Digital display
- Range: 0 to 6"  
0 to 150mm
- Extra battery storage in case
- Data output socket
- Molded storage case

PART NO.	DESCRIPTION
GHT 78361	Electronic digital caliper



**Accessories**



**3.5 GALLON PARTS WASHER**

- Comes with pump 110V
- Washer nozzle
- Tank dimensions 17" x 13" x 9"
- Pump output 45 gph
- 110 V, 60 Hz/0.5 A
- Weight 15 lbs.

PART NO.	DESCRIPTION
WSS W3.5	3.5 gallon parts washer c/w pump



**20 GALLON PARTS WASHER**

- Comes with pump 110V
- Washer nozzle
- Tank dimensions 30" x 21" x 11"
- Pump output 50 gph
- 115 V, 60 Hz/0.5 A
- Weight 75 lbs.

PART NO.	DESCRIPTION
WSS W20	20 gallon parts washer c/w pump



**40 GALLON PARTS WASHER**

- Comes with pump 110V
- Washer nozzle
- Tank dimensions 43" x 20" x 10 1/2"
- Pump output 50 gph
- 115 V, 60 Hz/0.5 A
- Weight 99 lbs.

PART NO.	DESCRIPTION
WSS W40	40 gallon parts washer c/w pump

**PUMP PART NO. SPP 78459**

**Accessories**

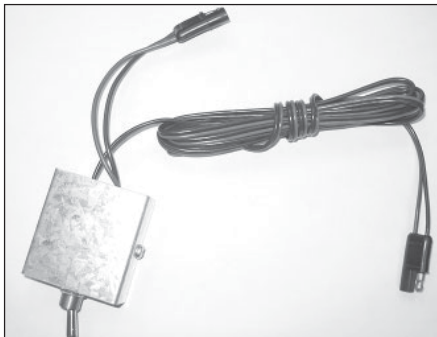
**PALLET JACK**

- 5500 lb. capacity
- Double wheel
- 3 control position operating handle
- 200 lbs. weight
- Polyurethane 2" x 7" wheel

PART NO.	DESCRIPTION
WSS PJ5	5500 lb. pallet jack
WSS PJ5Wheel	Pallet Jack Wheel

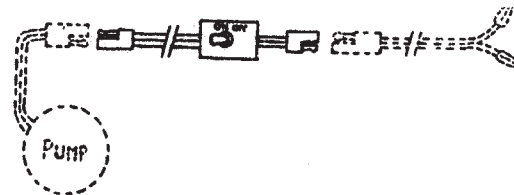


PART NO.	DESCRIPTION
SPW WPGHW	Grass Hopper Lawn Mower Bracket designed to accept WP14 & WP25 sprayers



PART NO.	DESCRIPTION
SPW WPERC	Electric Remote Control Switch Box w/ 8 Ft. wire

Allows the operator the convenience of turning the 12 Volt sprayer on or off from the tractor seat.





**Accessories**



**SMALL TRUCK DOLLY**

- 600 lbs. capacity
- 11" pneumatic tires
- 52" overall height
- Weight 27 lbs.
- Loop handle for easy use
- Red Powder Coated Frame

PART NO.	DESCRIPTION
WSS 11	Small truck dolly



**LARGE TRUCK DOLLY**

- 700 lbs. capacity
- 14" pneumatic tires
- 52" overall height
- Weight 31 lbs.
- Loop handle for easy use
- Red Powder Coated Frame

PART NO.	DESCRIPTION
WSS 12	Large truck dolly



**APPLIANCE DOLLY**

- 750 lbs. capacity
- 6" solid rubber wheels
- Crawler treads for stairs
- Non-marking rubber
- 12' appliance strap and ratchet tightener to secure load
- 60<sup>1</sup>/<sub>2</sub>" overall height
- Weight 48 lbs.
- Red Powder Coated Frame

PART NO.	DESCRIPTION
WSS 14	Appliance dolly
WSS SCAPP	Crawler Tread

## Accessories



### HAND TROLLEY

- 550 lbs. capacity
- 10" pneumatic tires
- 57" long x 22" wide x 18" high
- Toe plate width 7"
- Weight 29 lbs.
- Orange Powder Coated Frame

PART NO.	DESCRIPTION
WSS 42	Hand trolley



### ACCESSORY CART

- 4" lockable castors
- 2 - 15<sup>1</sup>/<sub>4</sub>" x 29" trays
- 34<sup>1</sup>/<sub>4</sub>" overall height
- Weight 31 lbs.
- Red Powder Coated Trays

PART NO.	DESCRIPTION
WSS 10	Accessory cart



**Accessories**



**SOLID BASE CART**

- 250 lbs. capacity
- 10" pneumatic tires
- 42" long x 20" wide x 13" high
- Weight: 64 lbs.
- Gray powder coated Frame & Handle

PART NO.	DESCRIPTION
WSS 20	Solid base cart



**EXPANDED METAL BASE CART**

- 250 lbs. capacity
- 10" pneumatic tires
- 48" long x 24" wide x 12" high
- Weight: 59 lbs.
- Green Powder coated Frame & Handle

PART NO.	DESCRIPTION
WSS 07	Expanded metal base cart



**UTILITY CART**

- 1,000 lbs. capacity
- 13" pneumatic tires
- 52" long x 30" wide x 23" high
- Weight: 80 lbs.
- Green Plastic Frame

PART NO.	DESCRIPTION
WSS 58	Utility Cart

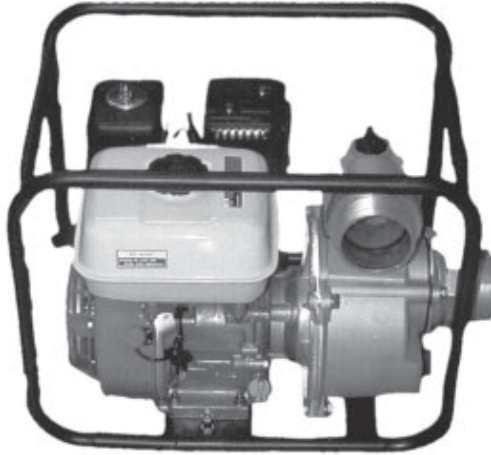
## Centrifugal Water Pumps

### 2" AND 3" HONDA POWERED WATER PUMPS

General purpose centrifugal water pumps constructed from aluminum for performance reliability, durability, and lightweight portability. These pumps are economical and ideal for drainage and most general purpose water pumping applications including effluent.

#### PART NO. WSS2040 2" GENERAL PURPOSE PUMP

**Engine:** 4 HP Honda "Oil Alert"  
**Pump:** Centrifugal Aluminum  
**Impeller:** Cast Iron  
**Inlet/Outlet:** 50 mm (2")  
**Max Flow:** 580 L/min, 150 Gal/min  
**Max Head:** 85 feet  
**Solids:** No  
**Dry Weight:** 21 kg (46 lbs.)



#### PART NO. WSS2050 2" GENERAL PURPOSE PUMP

**Engine:** 5 HP Honda GC  
**Pump:** Centrifugal Aluminum  
**Impeller:** Cast Iron  
**Inlet/Outlet:** 50 mm (2")  
**Max Flow:** 580 L/min, 150 Gal/min  
**Max Head:** 85 feet  
**Solids:** No  
**Dry Weight:** 21 kg (46 lbs.)

#### PART NO. WSS3050 3" GENERAL PURPOSE PUMP

**Engine:** 5.5 HP Honda "Oil Alert"  
**Pump:** Centrifugal Aluminum  
**Impeller:** Cast Iron  
**Inlet/Outlet:** 80 mm (3")  
**Max Flow:** 980 L/min, 255 Gal/min  
**Max Head:** 95 feet  
**Solids:** No  
**Dry Weight:** 27 kg (59 lbs.)

**PARTS BREAKDOWN SEE PAGE 9-34**



**PLASTIC SUCTION STRAINER**

### 3" TRASH PUMP



PART NO.	HOSE SIZE
78412	2"
78413	3"

**MORE STRAINERS LISTED ON PAGE 3-69**

**PARTS BREAKDOWN SEE PAGE 9-35  
 FOR SUCTION AND LAY FLAT HOSE  
 SEE PAGE 5-1**

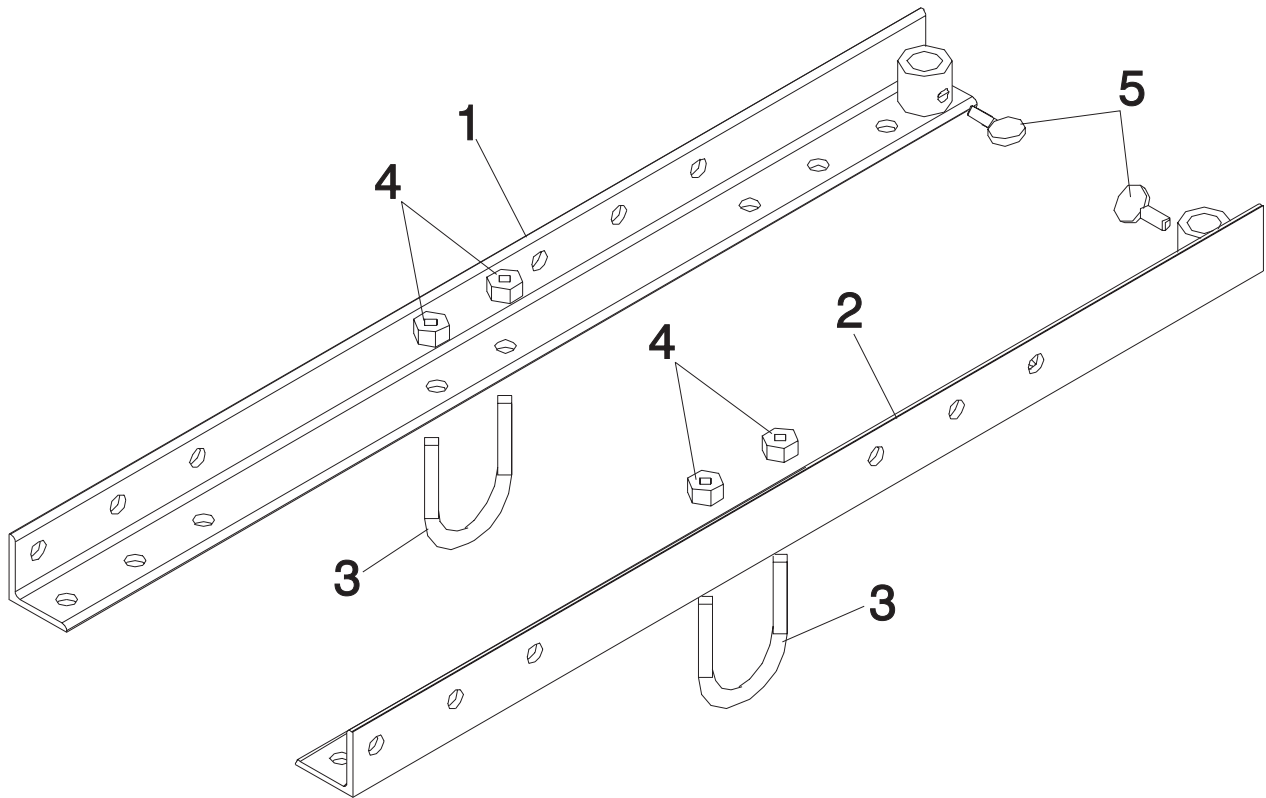
**I N D E X**

<b>AP-2 PISTON SPRAYER</b> ..... 9-31	<b>WP150S SADDLE AND STRAPS</b> ..... 9-17
<b>AP-20 BACK PACK SPRAYER</b> ..... 9-31	<b>WP150-4R ENGINE &amp; SKID ASSEMBLY</b> ..... 9-11
<b>FM25 FOAM MARKER</b> ..... 9-32, 9-33	<b>WP1540 ESTATE SPRAYER</b> ..... 9-9
<b>PTP-16/20 BACK PACK SPRAYER</b> ..... 9-30	<b>WP2 MANUAL BOOMLESS NOZZLE KIT</b> ..... 9-22
<b>SOLO-425 BACK PACK SPRAYER</b> ..... 9-31	<b>WP20 ATV SPRAYER</b> ..... 9-8
<b>SHURFLO - ELECTRIC BACK PACK SPRAYER PARTS</b> ..... 9-36	<b>WP20T TRAILER KIT</b> ..... 9-26
<b>WAND WIPER (74700)</b> ..... 9-31	<b>WP200S SADDLE &amp; STRAPS</b> ..... 9-17
<b>WP1 MOUNT KIT</b> ..... 9-1	<b>WP200 8R</b> ..... 9-12
<b>WP100 BOOM KIT</b> ..... 9-2	<b>WP200SHD SADDLE &amp; STRAPS</b> ..... 9-18
<b>WP110S SADDLE AND STRAPS</b> ..... 9-17	<b>WP200-HRK</b> ..... 9-13
<b>WP110150C THREE POINT CARRIER</b> ..... 9-19	<b>WP200300C THREE POINT CARRIER</b> ..... 9-19
<b>WP118WP HANDGUN PUMP KIT</b> ..... 9-23	<b>WP21FT BOOM KIT</b> ..... 9-4
<b>WP119 BOOM CONVERSION KIT</b> ..... 9-23	<b>WP21150FT BOOM KIT</b> ..... 9-4
<b>WP12T TRAILER KIT</b> ..... 9-27	<b>WP25 ATV SPRAYER</b> ..... 9-7
<b>WP14 ATV SPRAYER</b> ..... 9-6	<b>WP25100 ESTATE SPRAYER</b> ..... 9-9
<b>WP140 BOOM KIT</b> ..... 9-3	<b>WP2540 ESTATE SPRAYER</b> ..... 9-9
<b>WP150 SKID ASSEMBLY</b> ..... 9-14	<b>WP28FT BOOM KIT</b> ..... 9-4
<b>WP150T TRAILER KIT</b> ..... 9-26	<b>WP3T TRAILER KIT</b> ..... 9-27
	<b>WP300 HANDGUN KIT</b> ..... 9-20

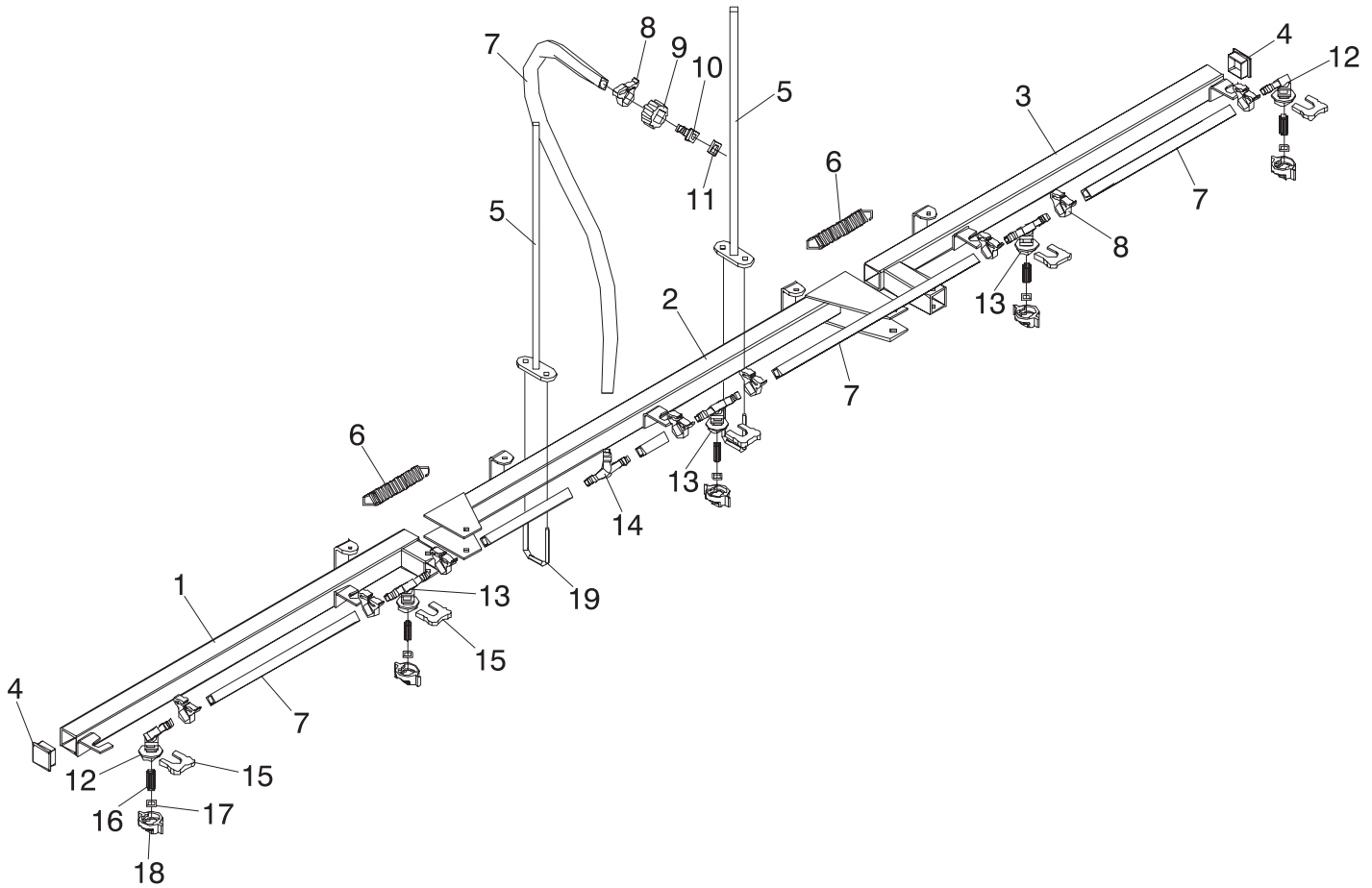
**I N D E X**

<b>WP300SHD SADDLE &amp; STRAPS</b> .....	9-18	<b>WP80 BOOM KIT</b> .....	9-5
<b>WP302 HANDGUN KIT</b> .....	9-20	<b>WP812H AGITATOR KIT</b> .....	9-28
<b>WP303 HANDGUN KIT</b> .....	9-21	<b>WP814H AGITATOR KIT</b> .....	9-28
<b>WP304 HANDGUN KIT</b> .....	9-21	<b>WSS2040 2" WATER PUMP</b> .....	9-34
<b>WP308 HANDGUN KIT</b> .....	9-22	<b>WSS2050 2" WATER PUMP</b> .....	9-34
<b>WP31140 THREE POINT SPRAYER</b> .....	9-10	<b>WSS3050 3" WATER PUMP</b> .....	9-34
<b>WP35FT BOOM KIT</b> .....	9-4	<b>WSST3080 3" WATER PUMP</b> .....	9-35
<b>WP4 ELECTRONIC KIT</b> .....	9-22		
<b>WP6RC PUMP KIT</b> .....	9-29		
<b>WP62 SKID ASSEMBLY</b> .....	9-14		
<b>WP62T TRAILER KIT</b> .....	9-26		
<b>WP62-12V TWELVE VOLT PUMP</b> .....	9-16		
<b>WP62140 THREE POINT SPRAYER</b> .....	9-10		
<b>WP623PT THREE POINT SPRAYER</b> .....	9-10		
<b>WP62-4R GAS ENGINE PUMP KIT</b> .....	9-15		
<b>WP715-A-LP PUMP KIT</b> .....	9-24		
<b>WP715-A-WP PUMP KIT</b> .....	9-24		
<b>WP716-LP PUMP KIT</b> .....	9-25		
<b>WP716-WP PUMP KIT</b> .....	9-25		

**WP1 Mount Kit**



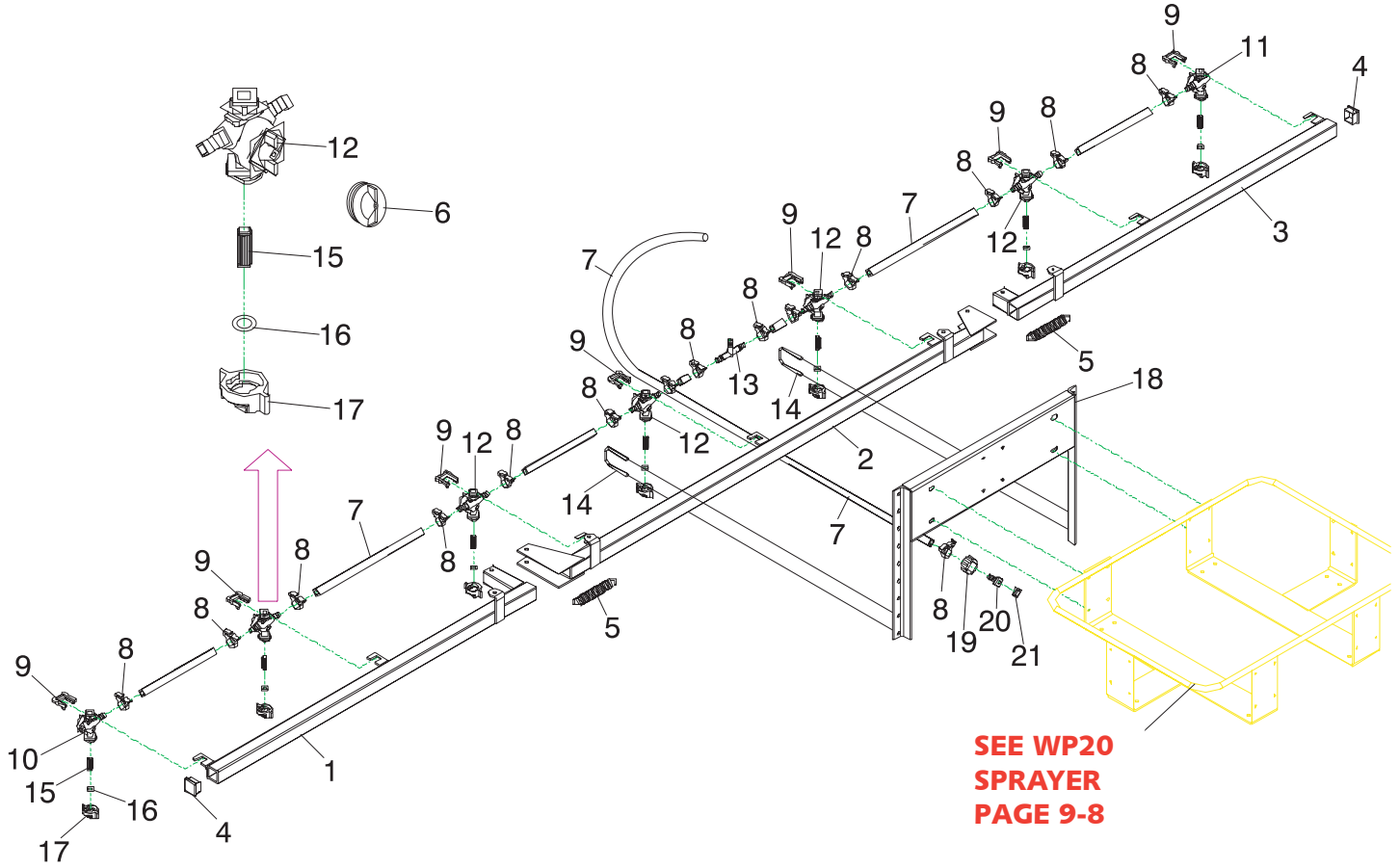
REF NO.	PART NO.	DESCRIPTION	QTY REQ.
1	78262	Right hand angle mount	1
2	78263	Left hand angle mount	1
3	78210	Round u-bolt	2
4	79068	5/16" nut	4
5	78212	Thumb screw	2

**WP100 Boom Kit**


REF NO.	PART NO.	DESCRIPTION	QTY REQ.
1,2,3	79126	3 section boom c/w tabs	1
4	79010	Boom plug	2
5	78265	Boom mount	2
6	79015	Spring	2
7	73014	1/2" hose per foot	-
8	75261	1/2" clamp	12
9	73515	Swivel nut	1
10	73519	Swivel barb	1
11	73644	Washer	1
12	72099	L nozzle body	2
13	72098	T nozzle body	3
14	73592	1/2" tee	1
15	73879	Lock clip	5
16	72119	50 mesh screen	5
17	72121	O-Ring	5
18	72137	Tip cap combination	5
19	78213	Square u-bolt	2



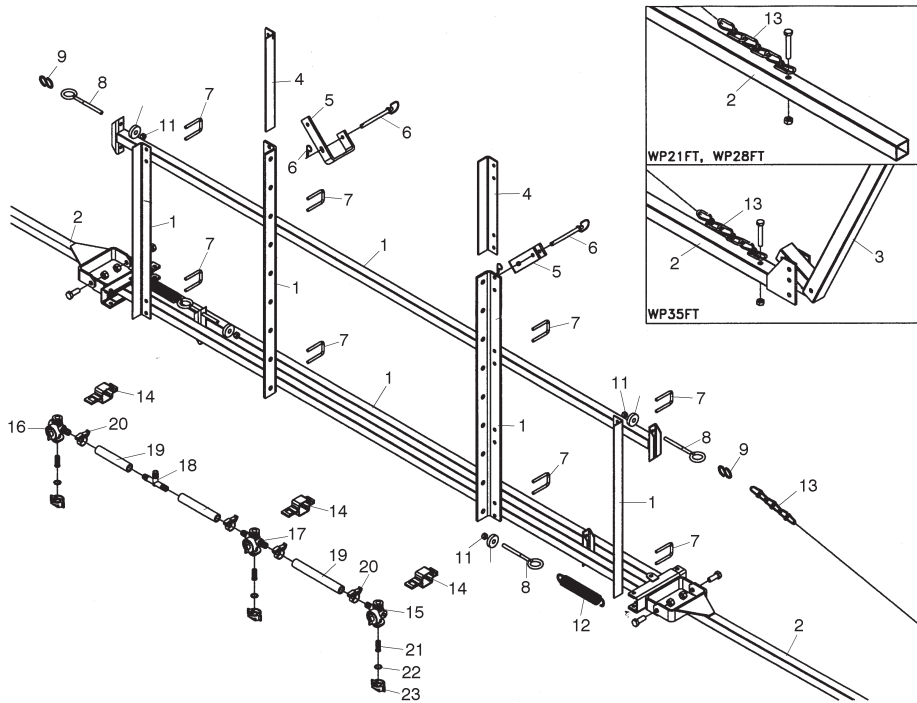
**WP140 Boom Kit**



**SEE WP20  
SPRAYER  
PAGE 9-8**

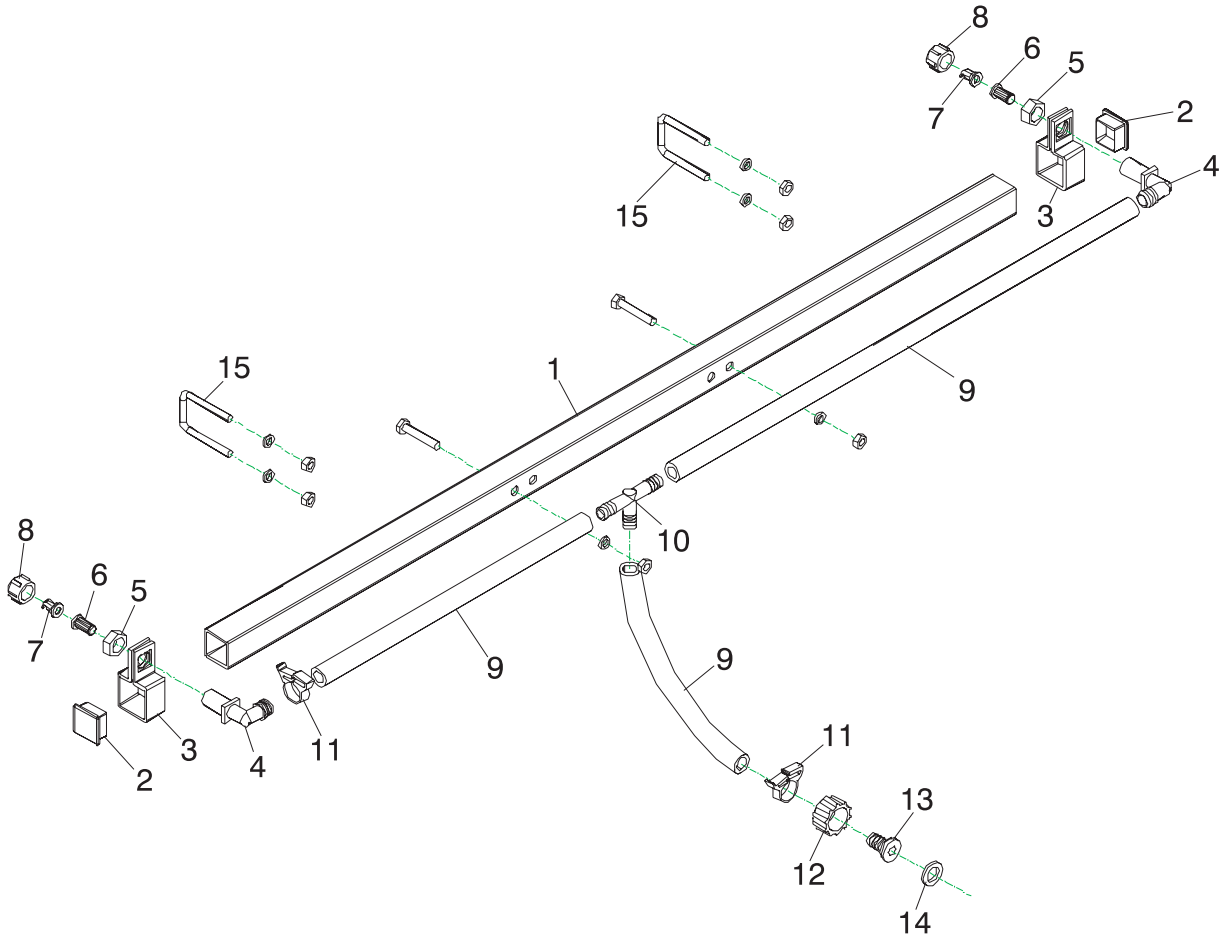
REF NO.	PART NO.	DESCRIPTION	QTY REQ.
1,2,3	79012	3 section boom c/w tabs	1
4	79010	Boom plug	2
5	79015	Spring	2
6	72155	Diaphragm module assy	-
7	73014	1/2" hose per foot	-
8	75261	1/2" hose clamp	16
9	73879	Lock clip	7
10	72171	Right hand nozzle body	1
11	72170	Left hand nozzle body	1
12	72169	T nozzle body	5
13	73592	1/2" tee	1
14	78213	Square u-bolt	2
15	72119	50 mesh screen	7
16	72121	O-Ring	7
17	72137	Tip cap combination	7
18	78274	Boom mount	1
19	73515	Swivel nut	1
20	73519	Swivel barb	1
21	73644	Washer	1

**WP21FT, WP28FT, WP35FT, WP21150FT Boom Kits**



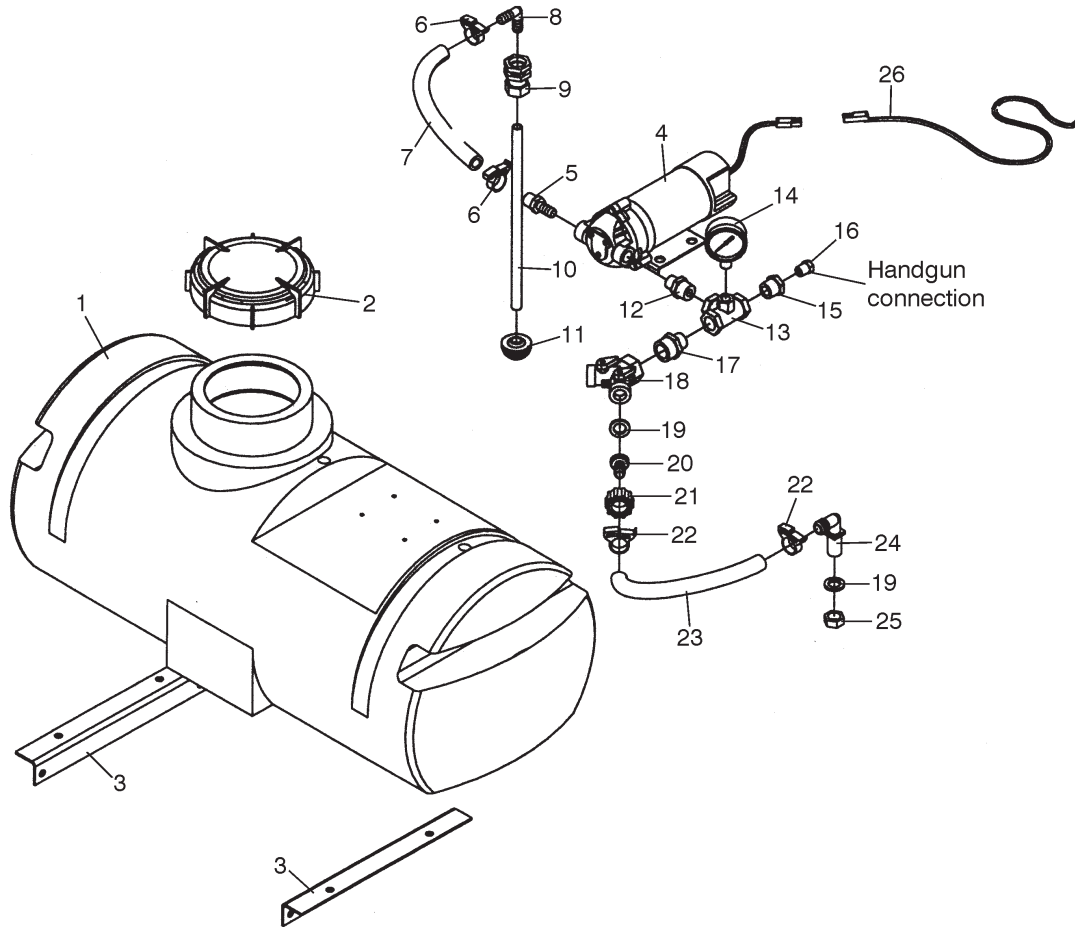
REF NO.	PART NO.	DESCRIPTION	QTY REQ. 21150FT	QTY REQ. 21FT	QTY REQ. 28FT	QTY REQ. 35FT
1	79140	Back rack c/w hinge assy	-	1	1	1
1	78929	Back rack c/w hinge assy	1	-	-	-
2	79143	End boom	-	1	-	-
2	79142	End boom	-	-	1	-
2	79141	End boom	-	-	-	1
2	78930	End boom	1	-	-	-
3	79560	End boom extension	-	-	-	1
4	78935	Extension	-	-	2	2
5	79139	J bracket	2	2	2	2
6	79150	Pin c/w hair pin	2	2	2	2
7	78213	U-bolt	8	8	8	8
8	79147	Eye bolt	6	6	6	8
9	78312	S-hook	2	2	2	4
11	79062	Nut 3/8"	8	8	8	10
12	79153	Spring	4	4	4	4
13	79102	Chain per foot	15	13	20	33
14	72436	Nozzle body clamp	13	13	17	21
15	72171	Right hand nozzle body	1	2	2	2
16	72170	Left hand nozzle body	1	2	2	2
17	72169	T nozzle body	11	9	13	17
18	73592	1/2" tee	1	1	1	1
19	73014	1/2" hose per foot	-	-	-	-
20	75261	1/2" hose clamp	25	22	30	38
21	72119	50 mesh screen	13	13	17	21
22	72121	O-Ring	13	13	17	21
23	72137	Tip cap combination	13	13	17	21
n/s	79010	Boom plug (not shown)	2	2	2	2
n/s	79154	5/16" PTO Pin	-	-	-	2

**WP80 Boom Kit**



REF NO.	PART NO.	DESCRIPTION	QTY REQ.
1	79024	Boom	1
2	79010	Boom plug	2
3	72546	Nozzle clamp	2
4	72205	Nozzle body	2
5	72532	Nozzle hex nut	2
6	50MN	50 mesh screen	2
7	72648	Tip	2
8	72400	Nozzle cap	2
9	73014	1/2" hose per foot	-
10	73592	1/2" tee	1
11	75261	1/2" clamp	6
12	73515	Swivel nut	1
13	73519	Swivel barb	1
14	73644	Washer	1
15	78213	Square u-bolt	2

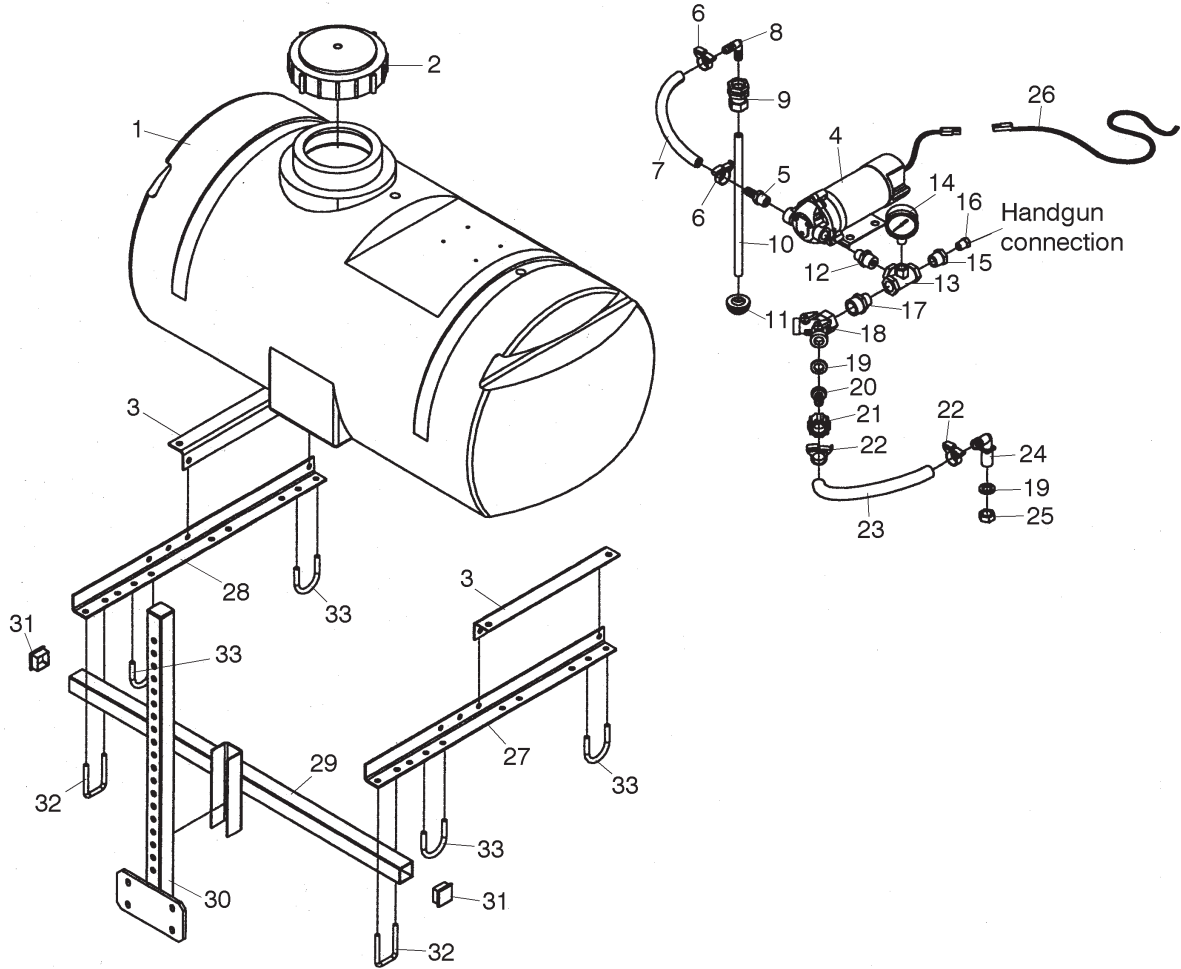
**WP14 ATV Sprayer**



REF NO.	PART NO.	DESCRIPTION	QTY REQ.
1	78970	14 gallon tank	1
2	79107	5" lid	1
3	78207	Angle bracket	2
4	70284	Pump	1
5	73489	Hose barb	1
6	75269	3/8" hose clamp	2
7	73012	3/8" hose per foot	-
8	79561	Hose barb	1
9	79106	Tank fitting	1
10	78275	Intake tube	1
11	77268	Intake screen	1
12	73454	Nipple	1
13	73394	Gauge tee	1

REF NO.	PART NO.	DESCRIPTION	QTY REQ.
14	75001	Gauge	1
15	73429	Bushing	1
16	73467	Plug	1
17	73481	Nipple	1
18	76810	3-way valve GHT	1
19	73644	Washer	3
20	73519	Swivel barb	1
21	73515	Swivel nut	1
22	75261	1/2" hose clamp	2
23	73014	1/2" hose per foot	-
24	72205	Nozzle body	1
25	72532	Nylon hex nut	1
26	78319	96" wire assy c/w alligator clips	1

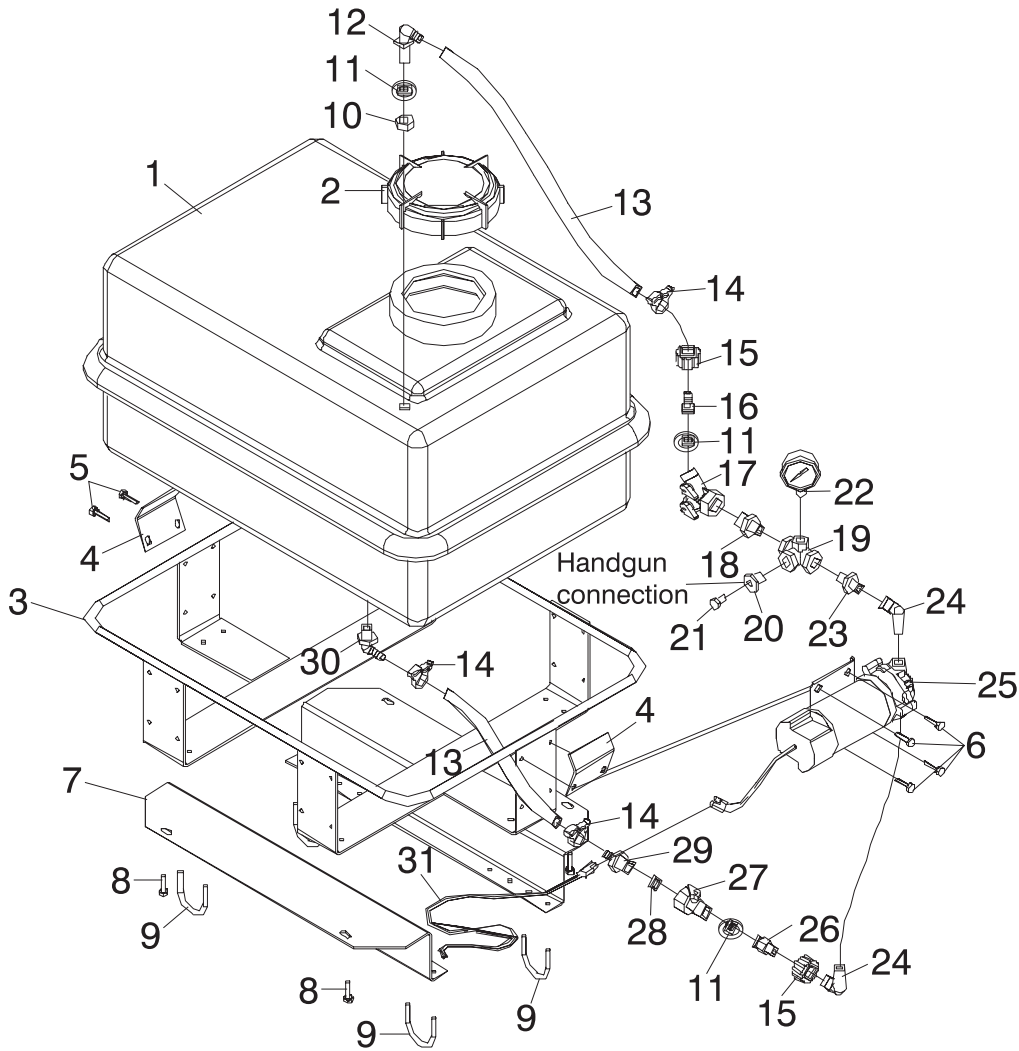
**WP25 ATV Sprayer**



REF NO.	PART NO.	DESCRIPTION	QTY REQ.
1	78971	25 gallon tank	1
2	79107	5" lid	1
3	78963	Angle bracket	2
4	70284	Pump	1
5	73489	Hose barb	1
6	75269	3/8" hose clamp	2
7	73012	3/8" hose per foot	-
8	79561	Hose barb	1
9	79106	Tank fitting	1
10	78934	Intake tube	1
11	77268	Intake screen	1
12	73454	Nipple	1
13	73394	Gauge tee	1
14	75001	Gauge	1
15	73429	Bushing	1
16	73467	Plug	1
17	73481	Nipple	1

REF NO.	PART NO.	DESCRIPTION	QTY REQ.
18	76810	3-way valve GHT	1
19	73644	Washer	3
20	73519	Swivel barb	1
21	73515	Swivel nut	1
22	75261	1/2" hose clamp	2
23	73014	1/2" hose per foot	-
24	72205	Nozzle body	1
25	72532	Nylon hex nut	1
26	78319	96" wire assy c/w alligator clips	1
27	78965	Right hand angle bracket	1
28	78964	Left hand angle bracket	1
29	78967	Cross member bracket	1
30	78966	Boom mount upright	1
31	79010	Boom plug	3
32	78213	Square u-bolt	2
33	78210	Round u-bolt	4
n/s	78944	3/8" Wing Nut	1

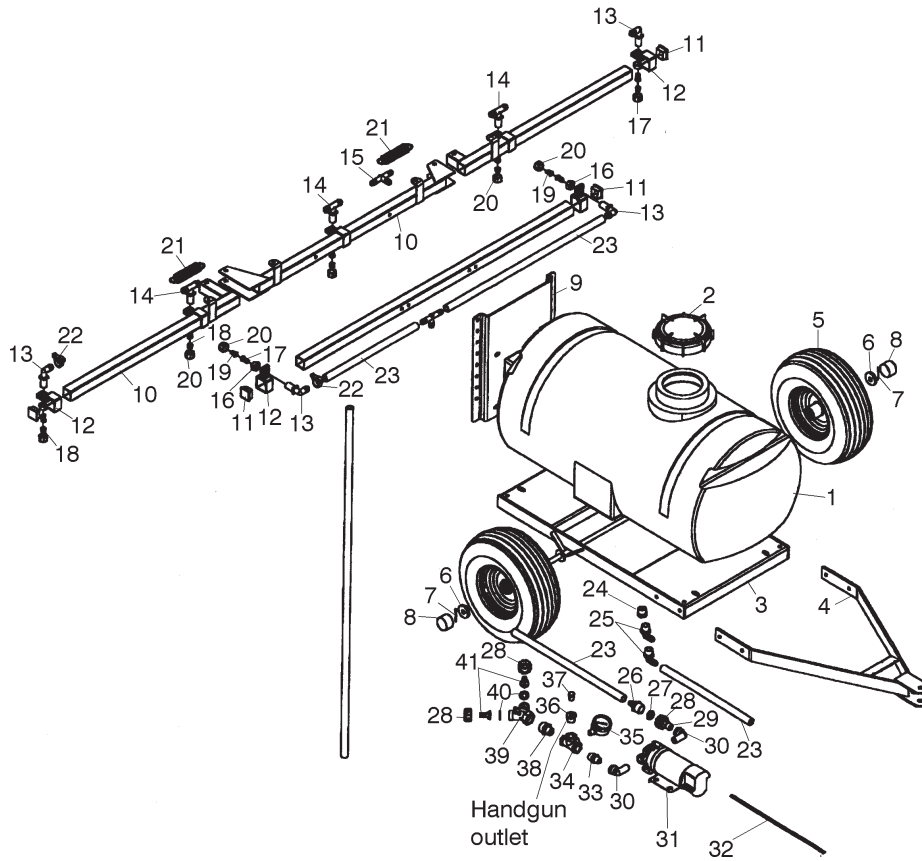
**WP20 ATV Sprayer**



REF NO.	PART NO.	DESCRIPTION	QTY REQ.
1	79042	20 gallon tank	1
2	79118	5" lid	1
3	79031	Frame	1
4	79033	Clip	2
5	79098	Bolt	2
6	79040	Bolt	4
7	79032	Mount	2
8	79067	Bolt	4
9	78210	Round u-bolt	4
10	72532	Nylon hex nut	1
11	73644	Washer	3
12	72205	Nozzle body	1
13	73014	1/2" hose per foot	-
14	75261	1/2" hose clamp	4
15	73515	Swivel nut	2
16	73519	Swivel barb	1

REF NO.	PART NO.	DESCRIPTION	QTY REQ.
17	76810	3-way valve	1
18	73481	Nipple	1
19	73394	Gauge tee	1
20	73429	Bushing	1
21	73467	Plug	1
22	75001	Gauge	1
23	73454	Nipple	1
24	73409	Elbow	2
25	70284	Pump	1
26	73542	MPT swivel	1
27	74682	Ball valve	1
28	73645	Filter washer	1
29	73503	Adapter hose barb	1
30	73538	Hose barb elbow	1
31	78319	96" wire harness c/w alligator clips	1

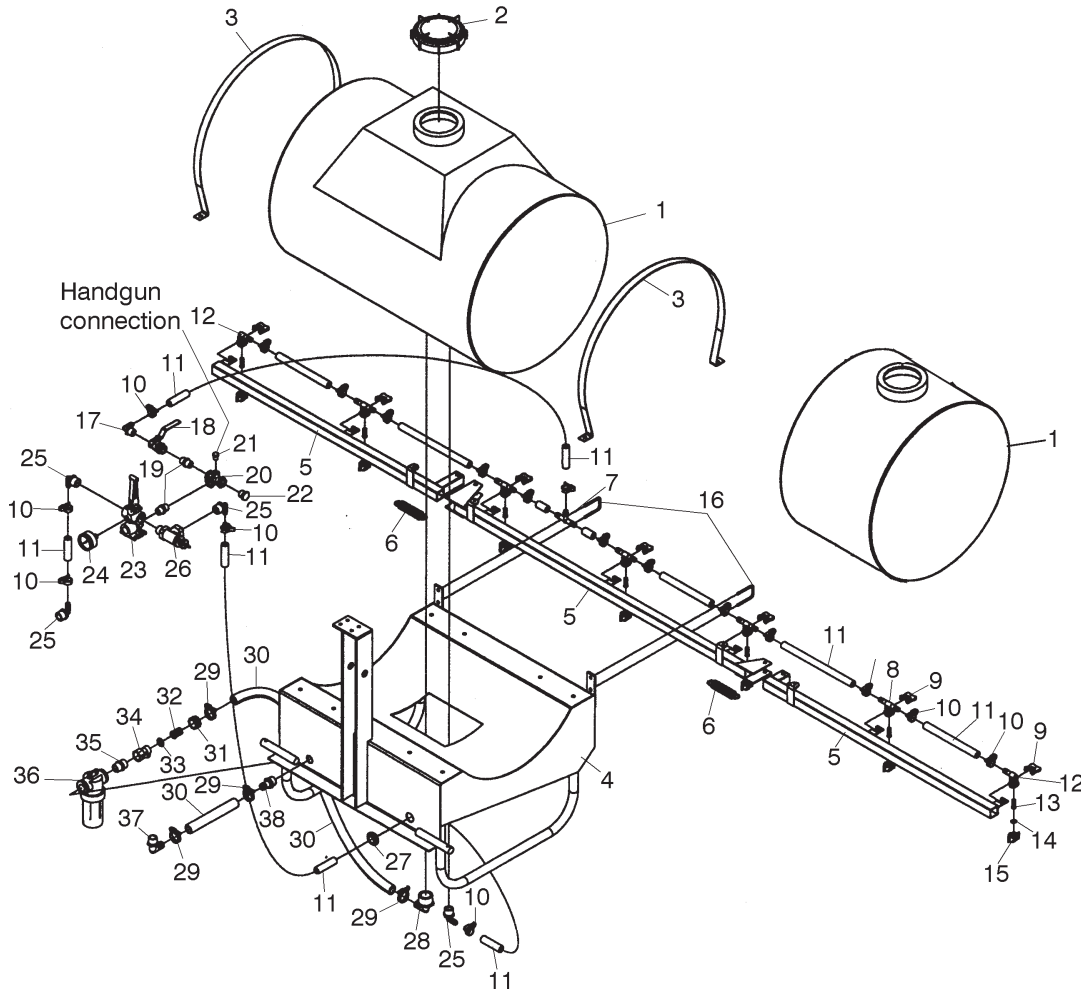
**WP1540, WP2540 & WP25100 Estate Sprayers**



REF NO.	PART NO.	DESCRIPTION	QTY 1540	QTY 2540	QTY 25100
1	79001	15 gallon tank	1	-	-
1	79000	25 gallon tank	-	1	1
2	79118	5" lid	1	1	1
3	79004	Frame	1	-	-
3	79002	Frame	-	1	1
4	79005	Tongue	1	-	-
4	79003	Tongue	-	1	1
5	78205	Wheel & tire	2	-	-
5	78206	Wheel & tire	-	2	2
6	79006	Wheel spacer	2	2	2
7	79070	Cotter pin	2	2	2
8	79009	Hub cap	2	2	2
9	79025	Boom mount plate	1	-	-
9	79021	Boom mount plate	-	1	1
10	79024	Boom	1	1	-
10	79020	Boom 3/peice	-	-	1
11	79010	Boom plug	2	2	2
12	72546	Nozzle clamp	2	2	5
13	72205	Nozzle body	2	2	2
14	72206	Tee nozzle body	0	0	3
15	73592	Hose barb tee	1	1	1
16	72532	Nylon hex nut	2	2	5
17	50MN	50 mesh screen	2	2	5
18	80-2NER	Tip	-	-	5

REF NO.	PART NO.	DESCRIPTION	QTY 1540	QTY 2540	QTY 25100
19	72648	Tip	2	2	-
20	72400	Nozzle cap	2	2	5
21	79015	Spring	0	0	2
22	75261	1/2" hose clamp	10	10	16
23	73014	1/2" hose per foot	-	-	-
24	73469	Plug	1	1	1
25	73538	Hose barb elbow	2	2	2
26	73503	Hose barb adapter	1	1	1
27	73645	Filter washer	1	1	1
28	73515	Swivel nut	3	3	3
29	73542	Swivel barb	1	1	1
30	73409	Street elbow	2	2	2
31	70284	Pump	1	1	1
32	78319	96" wire harness c/w clips	1	1	1
33	73454	Nipple	1	1	1
34	73394	Gauge tee	1	1	1
35	75001	Gauge	1	1	1
36	73429	Bushing	1	1	1
37	73467	Plug	1	1	1
38	73481	Nipple	1	1	1
39	76810	3-way valve GHT	1	1	1
40	73644	Washer	3	3	3
41	73519	Swivel barb	2	2	2
n/s	74903	Tie Strap	1	1	1

**WP31140, WP62140 & WP623PT 3 Point Sprayers**

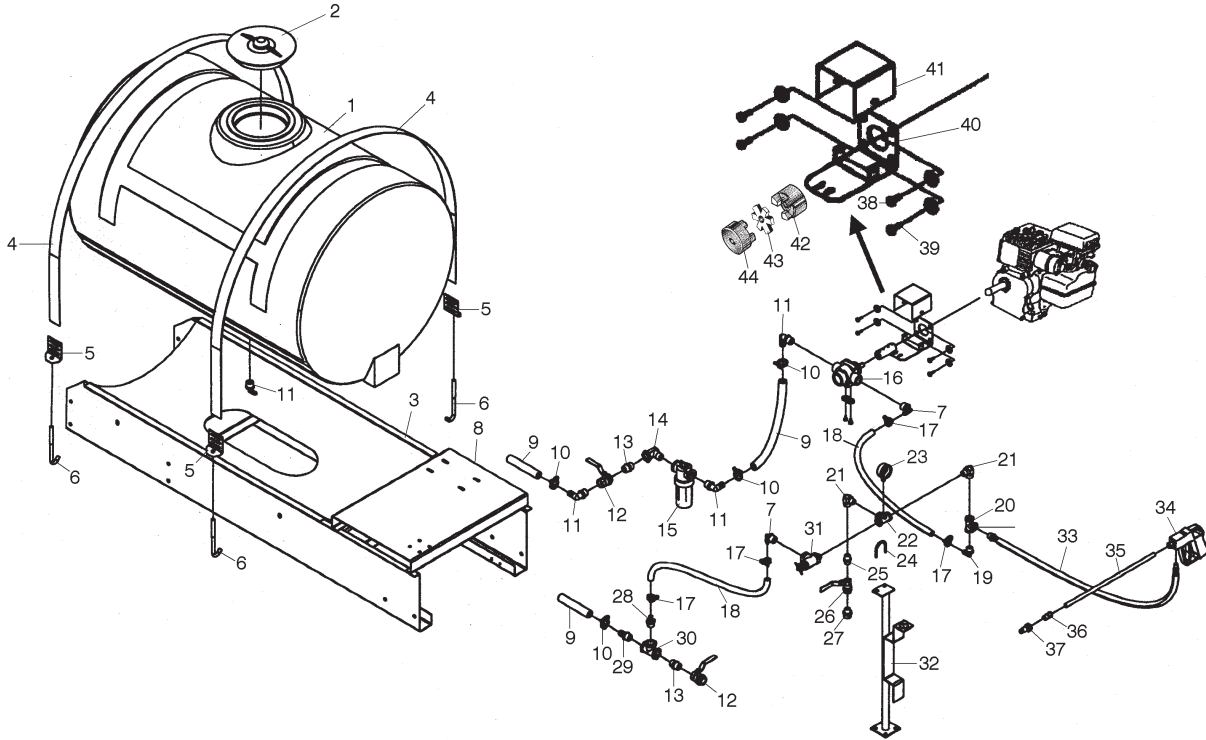


REF NO.	PART NO.	DESCRIPTION	QTY 31140	QTY 62140	QTY 623PT
1	79008	62 gallon tank	-	1	1
1	79011	31 gallon tank	1	-	-
2	79118	5" lid	1	1	1
3	79103	Tank strap	2	2	2
4	79030	Frame	1	1	1
5	79012	3 section boom c/w tabs	1	1	-
6	79015	Spring	2	2	-
7	73592	Hose barb tee	1	1	-
8	72098	Tee nozzle body	5	5	-
9	73879	Lock clip	7	7	-
10	75261	Hose clamp	20	20	6
11	73014	1/2" hose per foot	-	-	-
12	72099	Nozzle body elbow	2	2	-
13	72119	50 mesh screen	7	7	-
14	72121	O-Ring	7	7	-
15	72137	Tip cap combination	7	7	-
16	78213	Square u-bolt	2	2	-
17	73538	Hose barb elbow	1	1	1
18	76001	Ball valve	1	1	1
19	73448	Nipple	2	2	2

REF NO.	PART NO.	DESCRIPTION	QTY 31140	QTY 62140	QTY 623PT
20	73394	Gauge tee	1	1	1
21	73467	Plug	1	1	1
22	73469	Plug	1	1	1
23	76210	Manual boom control valve	1	1	1
24	75036	Gauge	1	1	1
25	73544	Hose barb elbow	4	4	4
26	76401	Relief valve	1	1	1
27	79100	Grommet	1	1	1
28	73554	Hose barb elbow	1	1	1
29	75273	Hose clamp	4	4	4
30	73018	3/4" hose per foot	-	-	-
31	73515	Swivel nut	1	1	1
32	73521	Swivel barb	1	1	1
33	73644	Washer	1	1	1
34	74682	Nylon ball valve	1	1	1
35	73482	Nipple	1	1	1
36	77201	Filter	1	1	1
37	73546	Hose barb fitting	1	1	1
38	73497	Hose barb elbow	1	1	1
n/s	79010	Boom Plug	1	1	-
n/s	78312	S-Hook	1	1	1
n/s	79102	Torque Chain	1	1	1



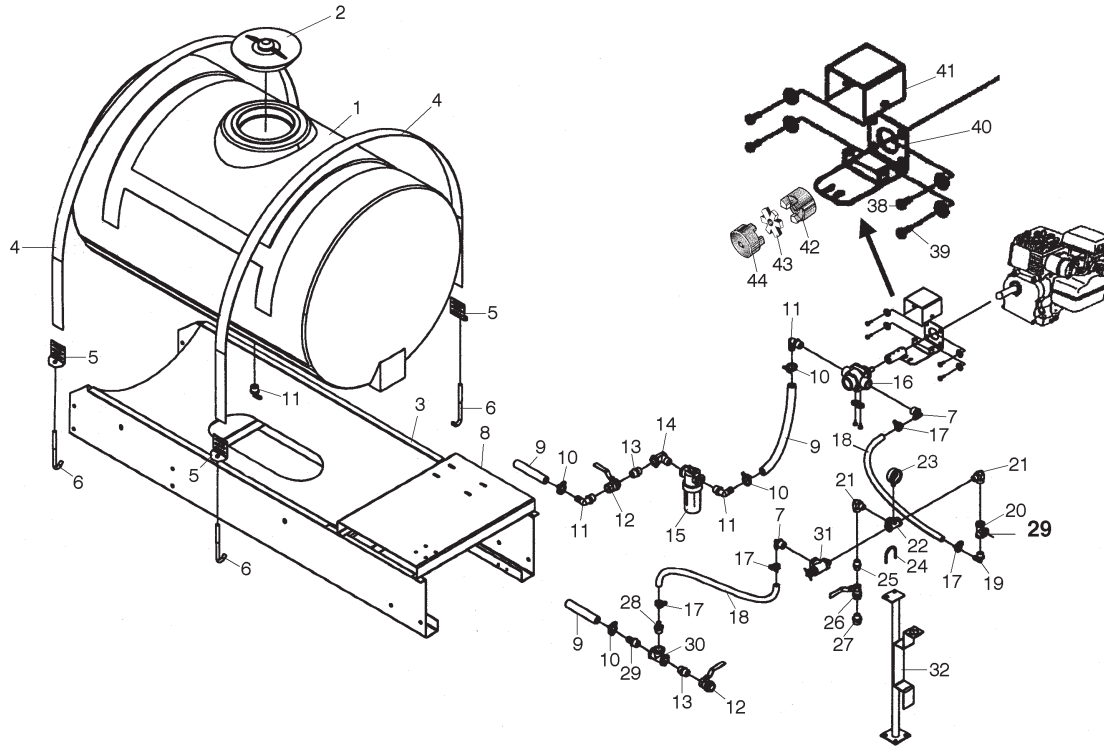
**WP150-4R Engine and Skid Assembly**



REF NO.	PART NO.	DESCRIPTION	QTY REQ.
1	78981	150 gallon tank	1
2	79129	8" lid	1
3	79127	Skid, less motor base plate #8	1
4	79135	Nylon strap per foot	-
5	79134	Buckles	4
6	79165	J-bolt	4
7	73544	Hose barb elbow	2
8	79136	Motor base plate	1
9	73018	3/4" hose per foot	-
10	75273	Hose clamp	6
11	73546	Hose barb elbow	4
12	76002	3/4" valve	2
13	73449	Nipple	2
14	73420	Street elbow	1
15	77201	Filter	1
16	70000	Pump	1
17	75261	Hose clamp	4
18	73014	1/2" hose per foot	-
19	73538	Hose barb elbow	1
20	73401	Tee	1
21	73419	Street elbow	2
22	73394	Gauge tee	1

REF NO.	PART NO.	DESCRIPTION	QTY REQ.
23	75003	Gauge	1
24	78210	Round u-bolt	3
25	73448	Nipple	2
26	76001	1/2" valve	1
27	73481	Adapter	1
28	73499	Hose barb	1
29	73497	Hose barb	1
30	73402	Tee	1
31	76400	Relief valve	1
32	79018	Valve and hand gun bracket	1
33	79083	Hand gun hose	1
34	79056	Gun	1
35	78074	18" extension	1
36	72508	Adapter	1
37	72634	Adjustable nozzle	1
38	79110	5/16" x 3/4" fine thread bolt	4
39	79069	5/16" lock washer	4
40	79023	Pump mount bracket	1
41	79034	Coupling shield	1
42	70443	3/4" coupler	1
43	70440	Center disc	1
44	70442	5/8" coupler	1
n/s	73554	1 1/4" x 3/4" HB Elbow	1

**WP200-8R**



REF NO.	PART NO.	DESCRIPTION	QTY REQ.
1	78982	200 gallon tank	1
2	79129	8" lid	1
3	79127	Skid, less motor base plate #8	1
4	79135	Nylon strap per foot	-
5	79134	Buckles	4
6	79165	J-bolt	4
7	73544	Hose barb elbow	2
8	79136	Motor base plate	1
9	73018	3/4" hose per foot	-
10	HS12	Hose clamp	4
11	73546	Hose barb elbow	3
12	76002	3/4" valve	2
13	73449	Nipple	2
14	73420	Street elbow	1
15	77201	Filter	1
16	70055	Pump	1
17	HS 8	Hose clamp	6
18	73014	1/2" hose per foot	-
19	73538	Hose barb elbow	1
20	73401	Tee	1
21	73419	Street elbow	1
22	73394	Gauge tee	1

REF NO.	PART NO.	DESCRIPTION	QTY REQ.
23	75022	Gauge	1
24	78210	Round u-bolt	3
25	73448	Nipple	2
26	76001	1/2" valve	1
27	73481	Adapter	1
28	73499	Hose barb	3
29	73469	1/2" Plug	1
30	73402	Tee	1
31	76400	Relief valve	1
32	79018	Valve and hand gun bracket	1
33	73554	1 1/4" Hose Barb Elbow	1
40	78487	Pump Mount Bracket	1
41	78488	Coupling shield	1
42	70452	3/4" coupler	1
43	70450	Center disc	1
44	70454	15/16" coupler	4

**WP200-HRK Hose Reel Kit Assembly**

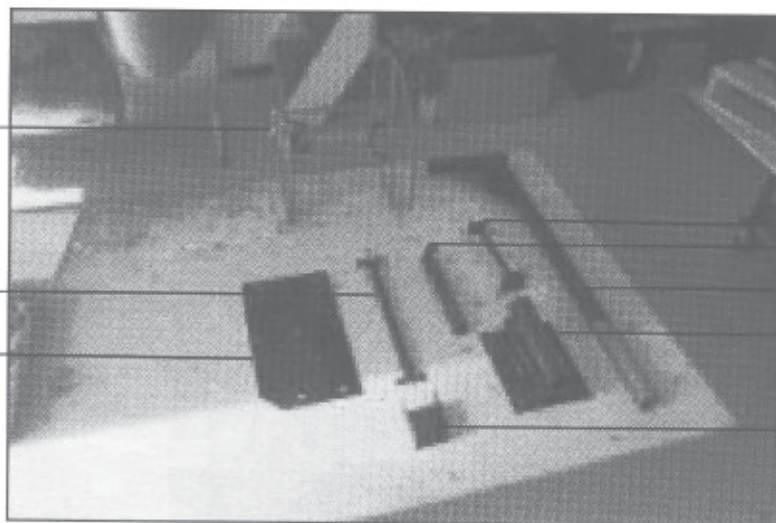


**SHOWN WITH OPTIONAL  
WP200-8R**

74588

78483

78486



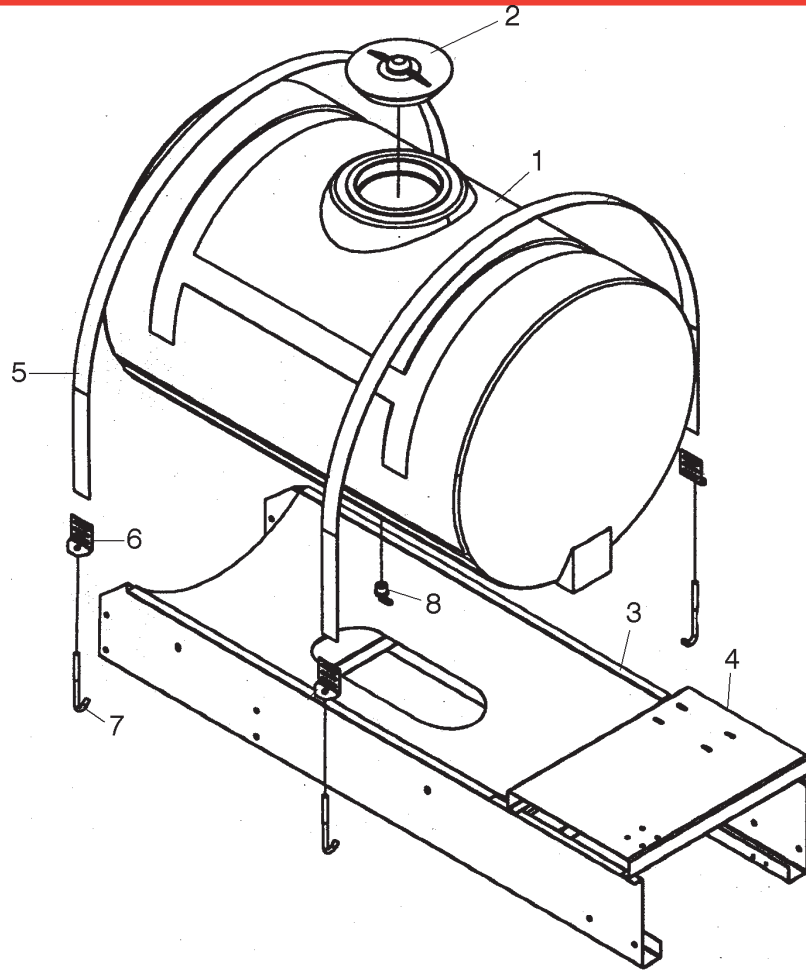
78482

78277

78481

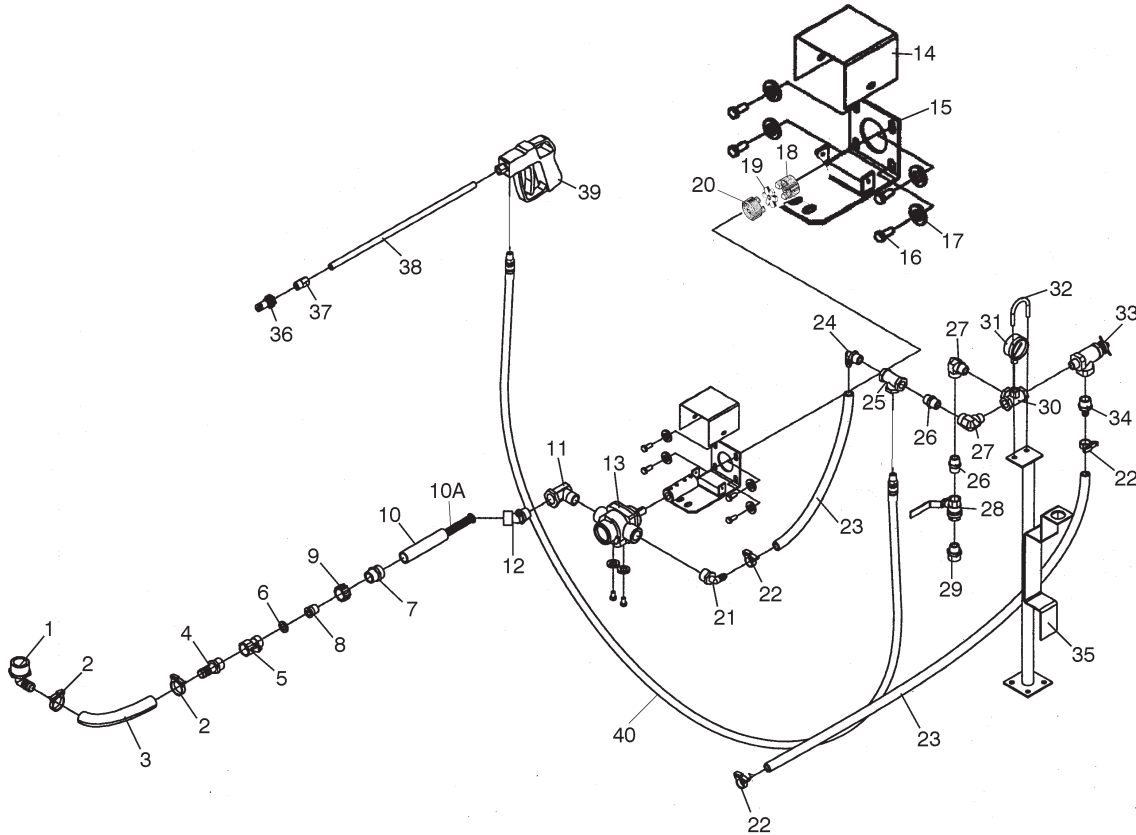
78484

78485

**WP150 and WP62 Skid Assembly**


REF NO.	PART NO.	DESCRIPTION	QTY WP150	QTY WP62
1	79008	62 gallon tank	-	1
1	78981	150 gallon tank	1	-
2	79118	Lid	-	1
2	79129	Lid	1	-
3	79029	Skid	-	1
3	79127	Skid, less motor base plate	1	-
4	79136	Motor base plate (optional)	1	-
5	79135	Nylon strap per foot	16	-
5	78951	Steel strap	-	2
6	79134	Buckle	4	-
7	79165	J bolt	4	-
7	79044	J bolt	-	4
8	73554	1 <sup>1</sup> / <sub>4</sub> " x 3 <sup>3</sup> / <sub>4</sub> " hose barb	1	-
8	73544	3 <sup>3</sup> / <sub>4</sub> " x 1 <sup>1</sup> / <sub>2</sub> " hose barb	-	1

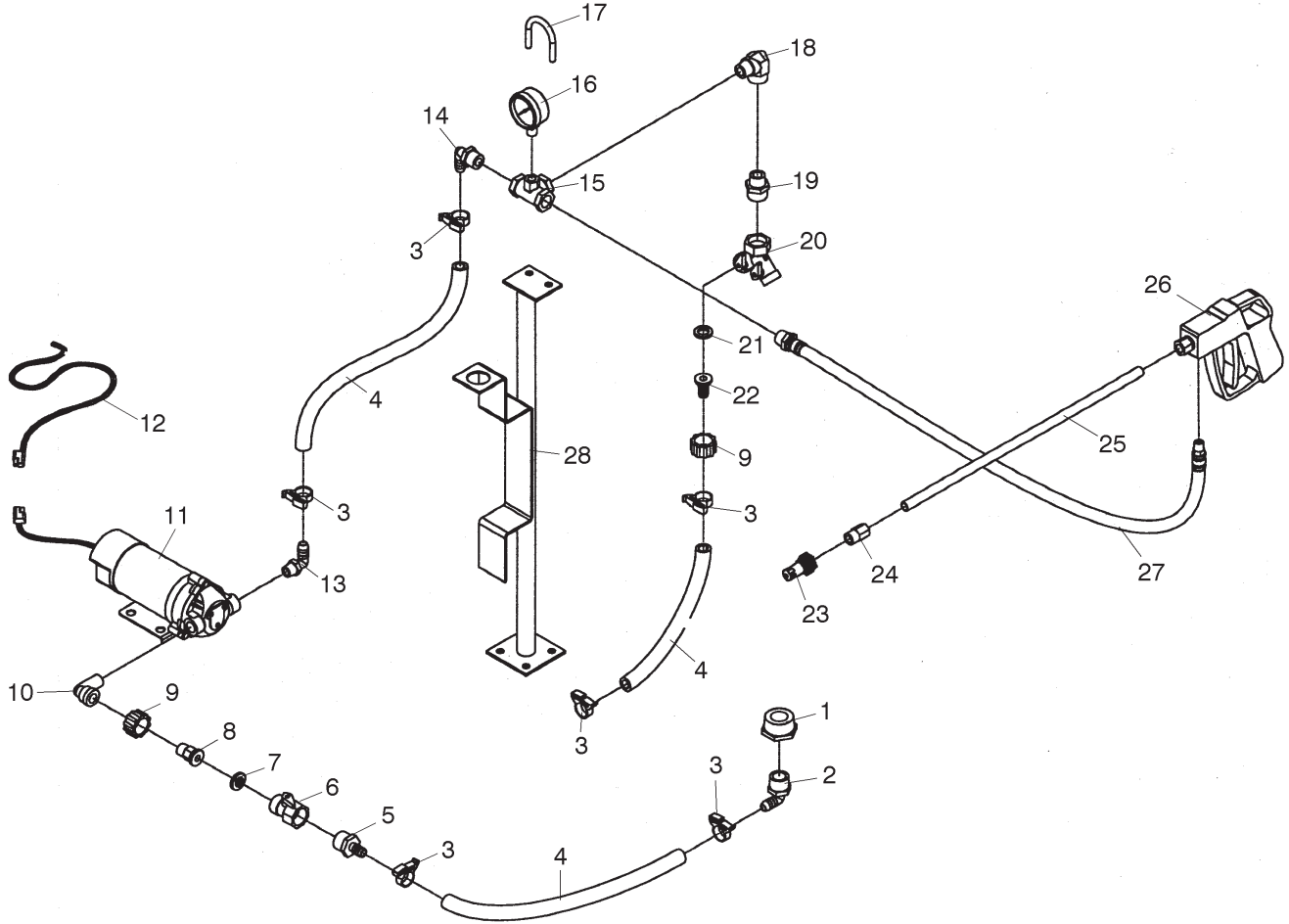
**WP62-4R Gas Engine Pump Kit**



REF NO.	PART NO.	DESCRIPTION	QTY REQ.
1	73554	Hose barb elbow	1
2	75273	Hose clamp	2
3	73018	3/4" hose per foot	-
4	73501	Hose barb adapter	1
5	74682	Nylon ball valve	1
6	73644	Washer	2
7	73457	Coupling	1
8	79115	Swivel	1
9	73515	Swivel nut	1
10	77012	Strainer complete	1
10A	77016	Screen only	-
11	73420	90° street elbow	1
12	79114	45° street elbow	1
13	70000	Pump	1
14	79034	Coupling shield	1
15	79023	Pump mount bracket	1
16	79110	5/16" x 3/4" fine thread	4
17	79069	5/16" lockwasher	4
18	70443	3/4" coupler	1
19	70440	Center disc	1
20	70442	5/8" coupler	1

REF NO.	PART NO.	DESCRIPTION	QTY REQ.
21	73544	Hose barb elbow	1
22	75261	1/2" hose clamp	4
23	73014	1/2" hose per foot	-
24	73538	Hose barb elbow	1
25	73401	Tee	1
26	73448	Nipple	2
27	73419	Street elbow	2
28	76001	1/2" ball valve	1
29	73481	Adapter	1
30	73394	Gauge tee	1
31	75002	Gauge	1
32	78210	Round u-bolt	1
33	76400	Relief valve	1
34	73499	Hose barb adapter	1
35	79018	Valve & handgun bracket	1
36	72634	Adjustable nozzle	1
37	72508	Adapter	1
38	78074	18" extension	1
39	79056	Handgun	1
40	79083	Handgun hose	1

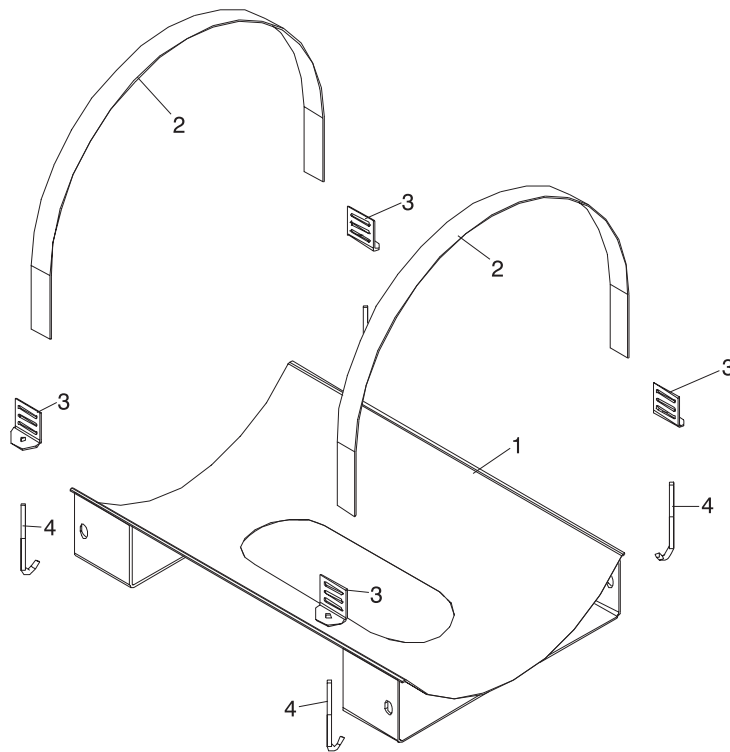
**WP62-12V 12 Volt Pump Kit**



REF NO.	PART NO.	DESCRIPTION	QTY REQ.
1	73437	Bushing	1
2	73544	Hose barb elbow	1
3	75261	1/2" hose clamp	6
4	73014	1/2" hose per foot	-
5	73503	Hose barb adapter	1
6	74682	Nylon valve	1
7	73645	Filter washer	1
8	73542	Swivel	1
9	73515	Swivel nut	2
10	73409	Street elbow	1
11	70284	Pump	1
12	78319	96" wiring harness c/w clips	1
13	73535	Hose barb elbow	1
14	73538	Hose barb elbow	1

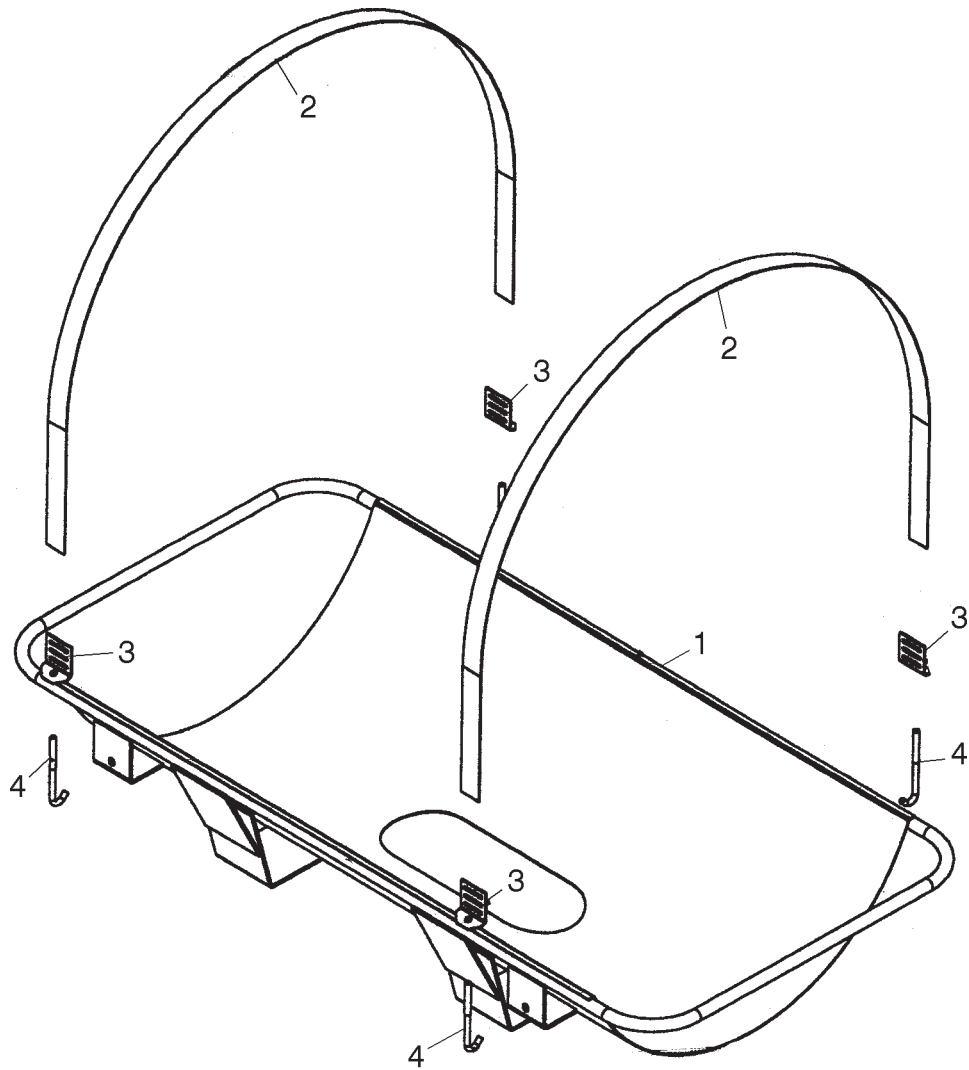
REF NO.	PART NO.	DESCRIPTION	QTY REQ.
15	73394	Gauge tee	1
16	75001	Gauge	1
17	78210	Round u-bolt	1
18	73419	Street elbow	1
19	73481	Adapter	1
20	76810	3-way valve	1
21	73644	Washer	1
22	73519	Hose barb swivel	1
23	72634	Adjustable tip	1
24	72508	Adapter	1
25	78074	18" extension	1
26	79056	Hand gun	1
27	79083	Handgun hose	1
28	79018	Valve & handgun bracket	1

**WP110S, WP150S, WP200S Saddle & Straps**



REF NO.	PART NO.	DESCRIPTION	QTY 110S	QTY 150S	QTY 200S
1	79157	Saddle	1	-	-
1	79159	Saddle	-	1	-
1	79162	Saddle	-	-	1
2	79135	Nylon strap per foot	15'	15'	17'
3	79134	Buckles	4	4	4
4	79165	J-bolt	4	4	4

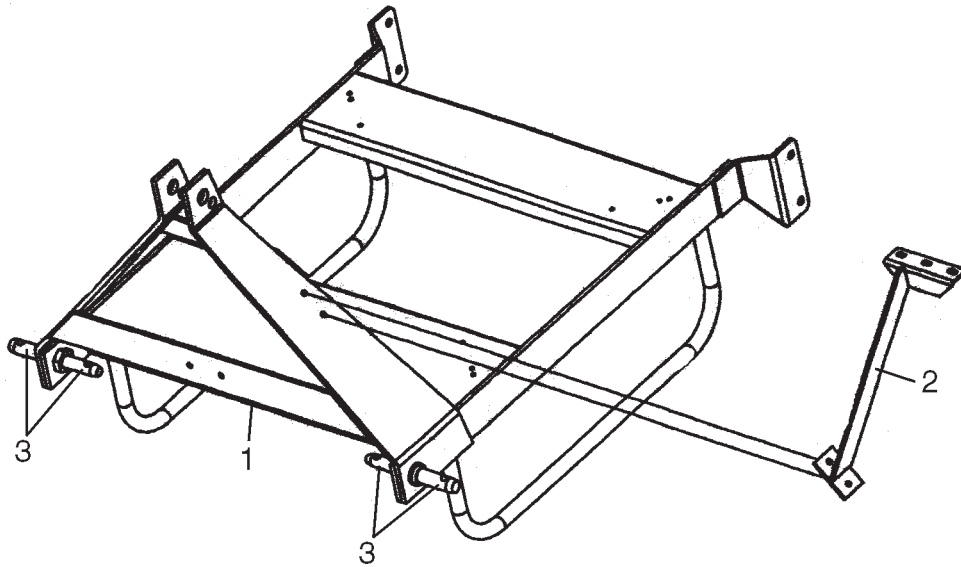
**WP200SHD, WP300SHD Saddle & Straps**



REF NO.	PART NO.	DESCRIPTION	QTY 200SHD	QTY 300SHD
1	79164	Saddle	1	-
1	79163	Saddle	-	1
2	79135	Nylon strap per foot	17'	17'
3	79134	Buckle	4	4
4	79165	J-bolt	4	4



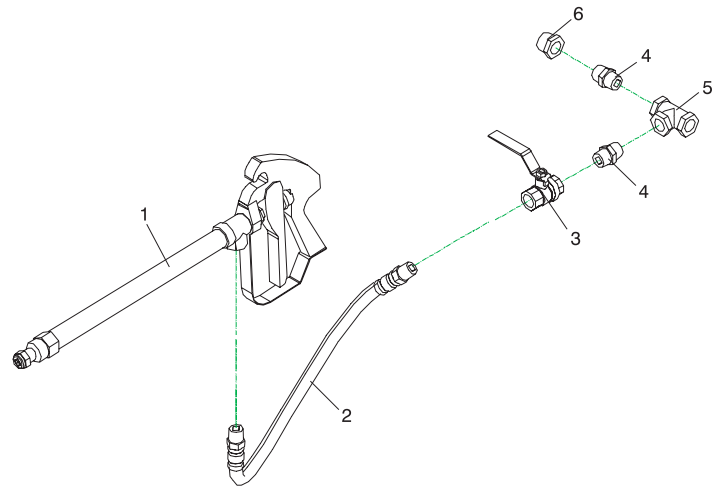
**WP110150C, WP200300C 3 Point Carrier**



REF NO.	PART NO.	DESCRIPTION	QTY	
			110150C	200300C
1	79155	3 point carrier	1	-
1	79160	3 point carrier	-	1
2	79156	Valve mount	1	-
2	79161	Valve mount	-	1
3	79158	Cat 1 - 2 lift pin	2	2

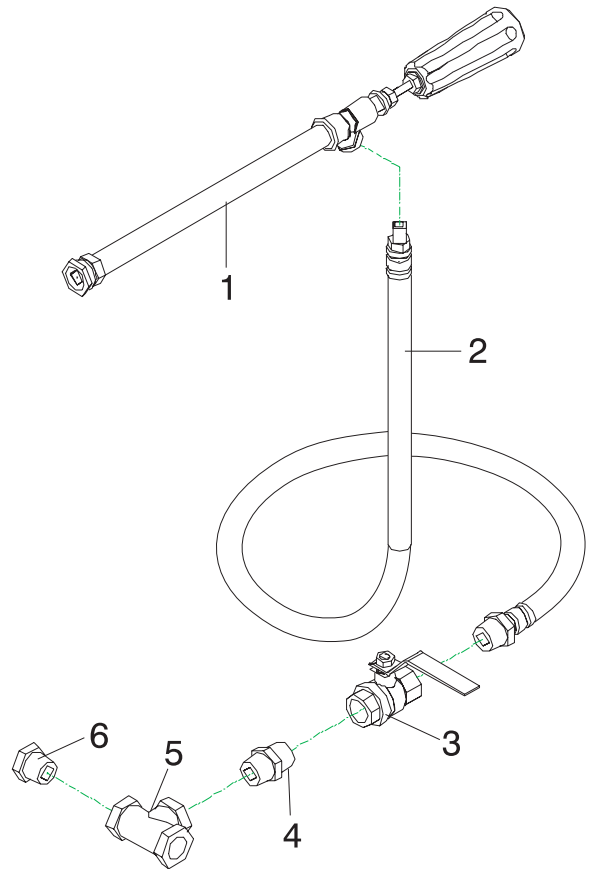
**WP300 Handgun Kit**

REF NO.	PART NO.	DESCRIPTION	QTY REQ
1	74006	Hand gun	1
2	79084	Hose assembly	1
3	76001	Ball vavle	1
4	73448	Nipple	2
5	73401	Tee	1
6	73434	Reducer	1
n/s	74202	Repair kit for 74006	-



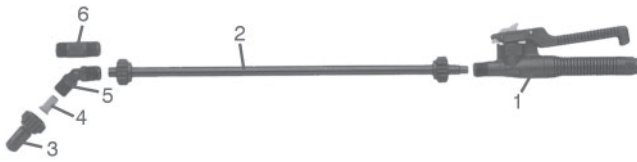
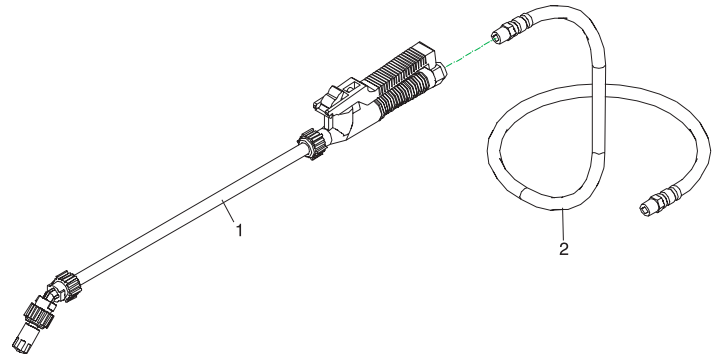
**WP302 Handgun Kit**

REF NO.	PART NO.	DESCRIPTION	QTY REQ
1	74035	Handgun	1
2	79083	Hose assembly	1
3	76001	Ball valve	1
4	73448	Nipple	1
5	73401	Tee	1
6	73430	Bushing	1
n/s	74220	Repair kit for 74035	-



**WP303 Handgun Kit**

REF NO.	PART NO.	DESCRIPTION	QTY REQ
1	74020	Handgun	1
2	79080	Hose assembly	1

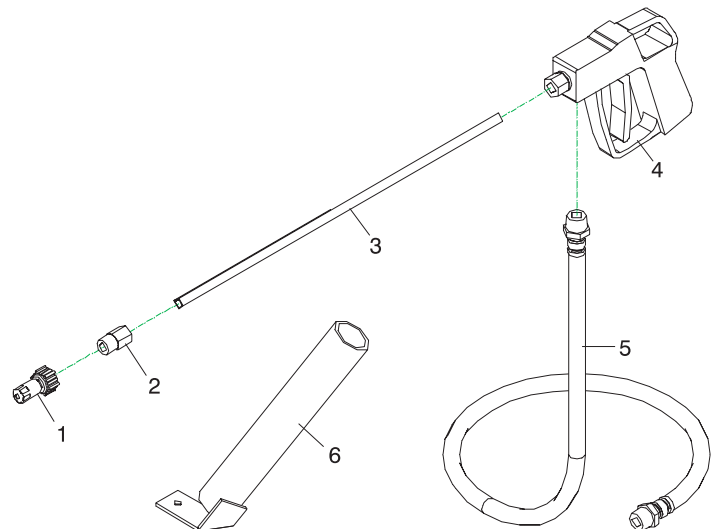


**REPAIR PARTS LIST FOR 74020 HANDGUN (WP303)**

REF NO.	PART NO.	DESCRIPTION	QTY REQ
1	74198	Shut off valve	1
2	74199	Extension	1
3	72636	Adjustable nozzle assembly	1
4	50MN	50 mesh screen	1
5	74215	45° adapter	1
6	74297	Adapter	1
	74216	Handgun kit	1

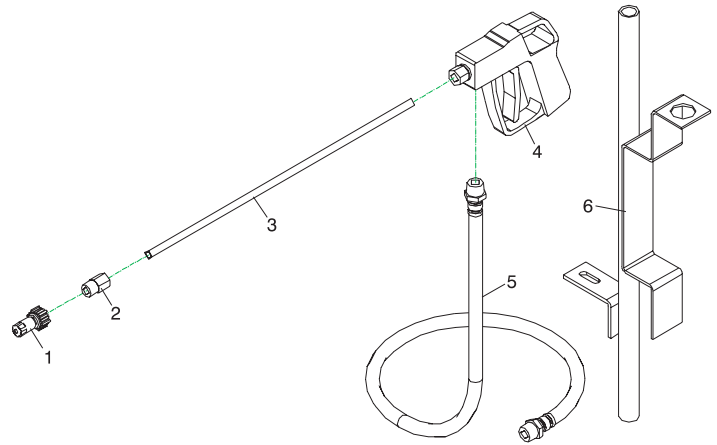
**WP304 Handgun Kit**

REF NO.	PART NO.	DESCRIPTION	QTY REQ
1	72634	Adjustable tip	1
2	72508	Adapter	1
3	78074	18" extension	1
4	79056	Handgun	1
5	79081	Hose assembly	1
6	78277	Handgun mount	1
n/s	74222	Repair kit for 79056	1

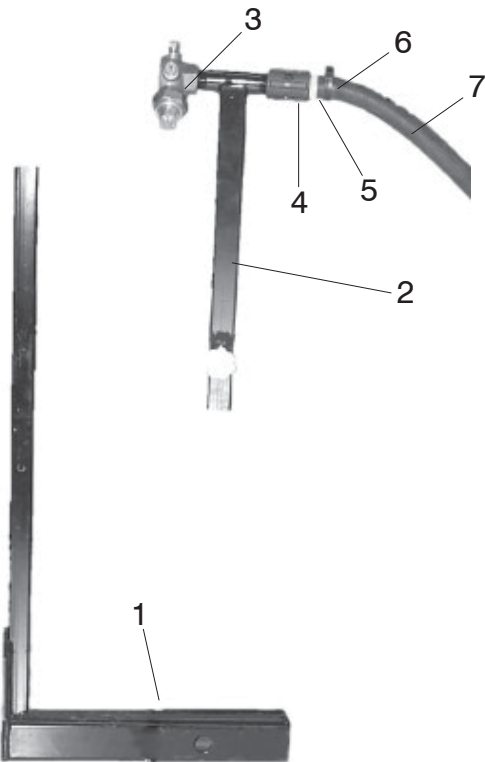


**WP308 Handgun Kit**

REF NO.	PART NO.	DESCRIPTION	QTY REQ
1	72634	Adjustable tip	1
2	72508	Adapter	1
3	78074	18" extension	1
4	79056	Handgun	1
5	79082	Hose assembly	1
6	78320	Handgun mount	1
n/s	74222	Repair kit	-



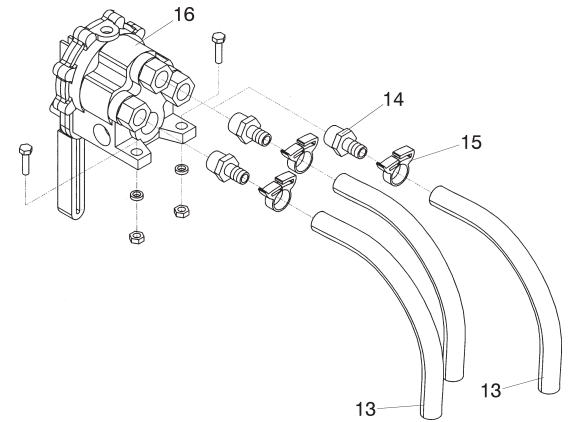
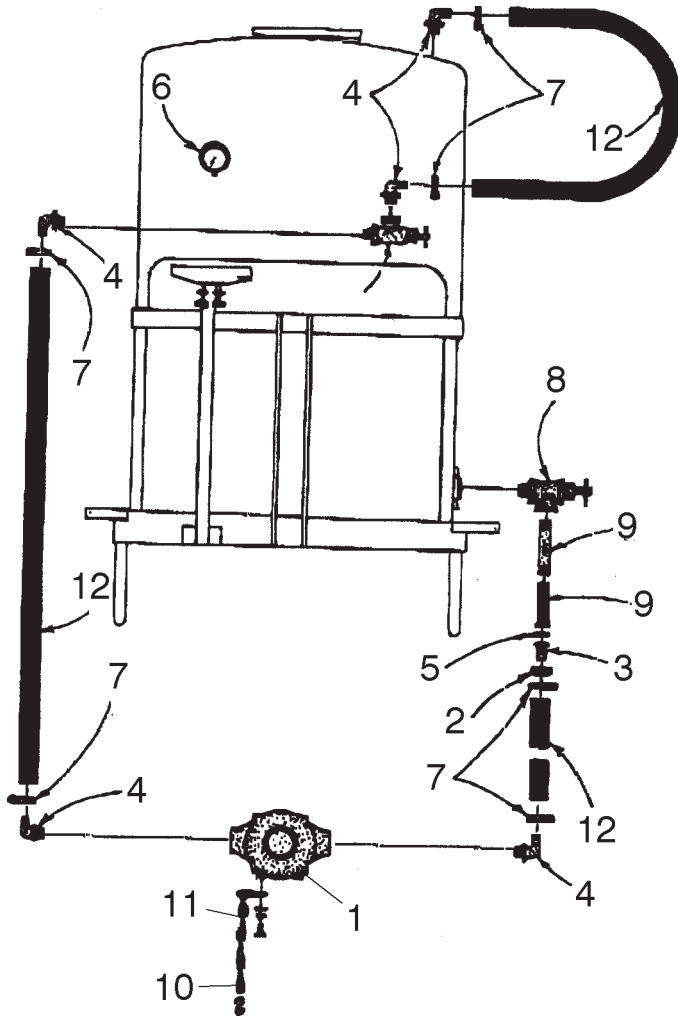
**WP2 Manual Boomless Nozzle Kit**



REF NO.	PART NO.	DESCRIPTION
1	78365	Receiver insert
2	78366	Adjustable bracket
3	72510	Boomless nozzle (see page 3-29)
4	73459	3/4" coupling
5	73497	3/4" hose barb
6	75273	Clamp
7	73018	3/4" hose per ft.
n/s	73515	Swivel nut
n/s	73521	3/4" swivel
n/s	73644	Washer

**WP4 ELECTRONIC KIT (c/w in cab control)**

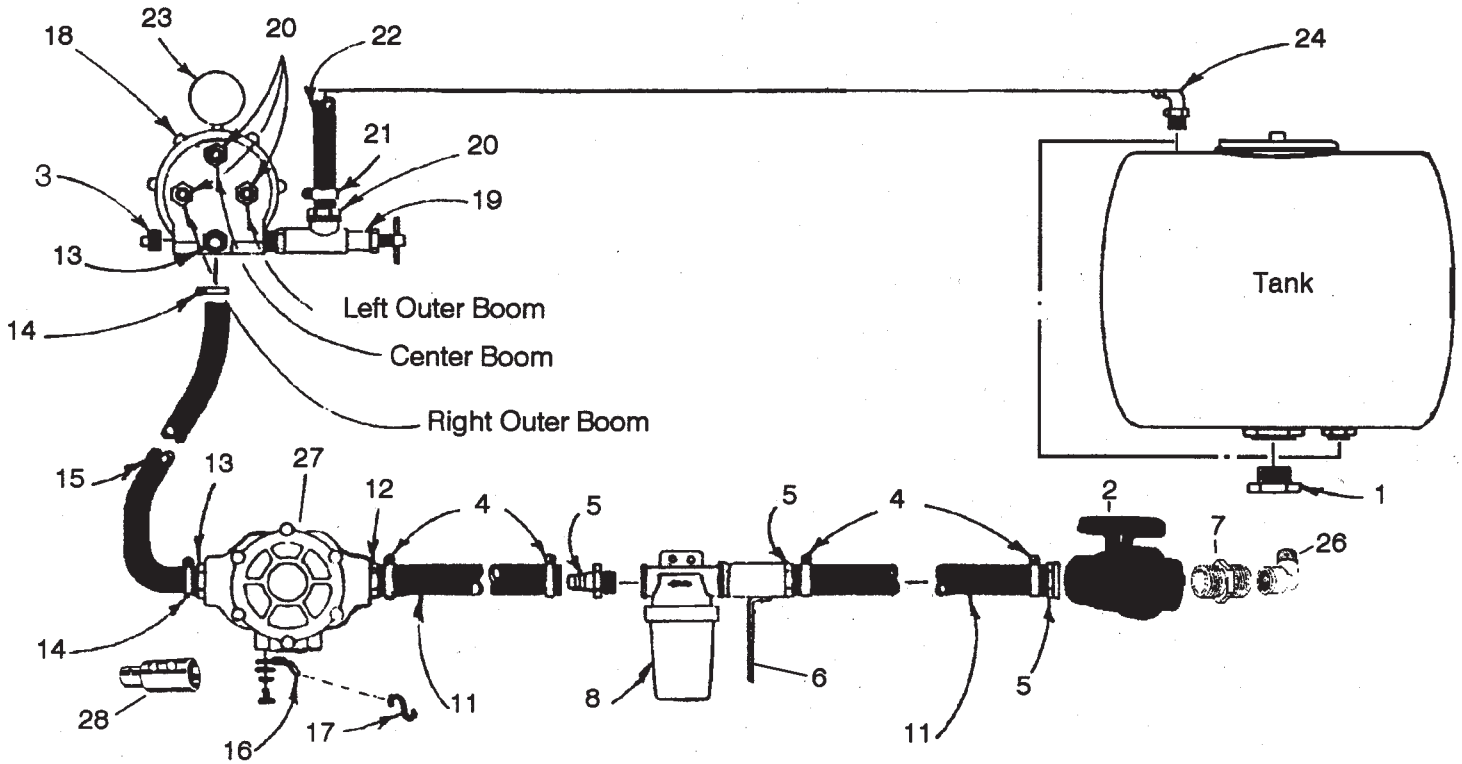
**WP118WP Handgun Pump Kit & WP119 Kit to Convert to Boom**



REF NO.	PART NO.	DESCRIPTION	QTY WP118WP	QTY WP119
1	70020	Pump	1	
2	73515	Swivel nut	1	
3	73521	Swivel barb	1	
4	73546	Elbow	4	
5	73644	Washer	1	
6	75002	Gauge	1	
7	75273	Hose clamp	6	
8	76401	Relief valve	1	
9	77012	Strainer complete	1	
10	78312	S hook	1	
11	79102	Chain	1	
12	73019	3/4" hose per foot	-	-
13	73014	1/2" hose per foot	-	-
14	73499	Hose barb	-	3
15	75261	Clamp	-	6
16	76334	Tee valve	-	1

REF NO.	PART NO.	DESCRIPTION	QTY WP118WP	QTY WP119
n/s	70426	Coupler	1	
n/s	72508	Adapter	1	
n/s	72634	Adjustable tip	1	
n/s	73407	Gauge tee	1	
n/s	73420	Street elbow	1	
n/s	73437	Bushing	1	
n/s	73449	Nipple	1	
n/s	73497	Hose barb	1	
n/s	73500	Hose barb	1	
n/s	73504	Hose barb	1	
n/s	76002	Valve	1	
n/s	78074	18" extension	1	
n/s	79056	Handgun	1	
n/s	79082	Hose assembly handgun	1	
n/s	79286	U-bolt	1	

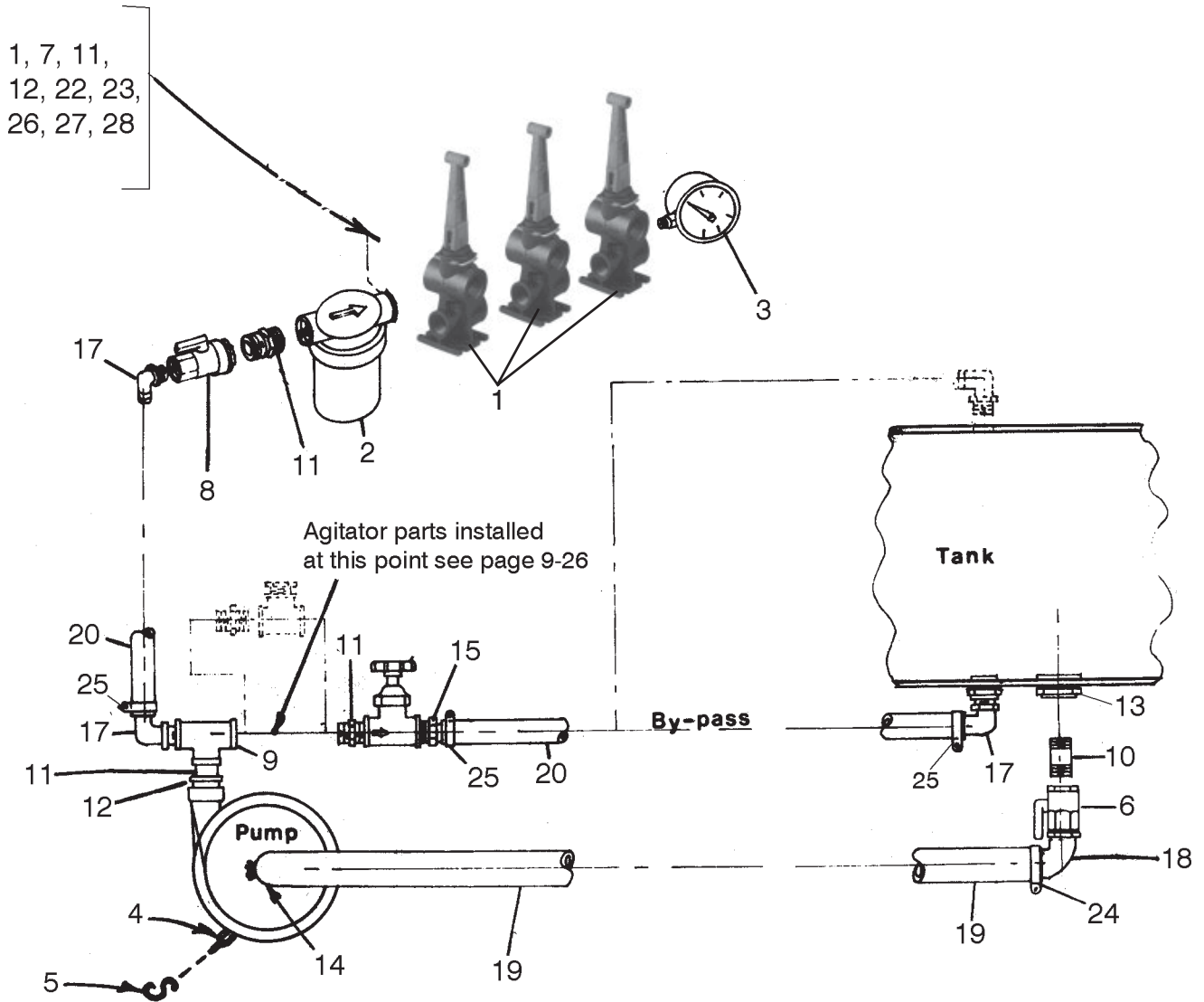
**WP715-A-LP & WP715-A-WP PUMP KIT**



REF NO.	PART NO.	DESCRIPTION	QTY LP	QTY WP
1	73438	Bushing	1	1
2	76032	Tank shut off valve	1	1
3	73470	Plug	1	1
4	75275	1" clamp	4	4
5	73506	Hose barb	3	3
6	79027	Strainer bracket	1	1
7	73450	Nipple	1	1
8	77205	Strainer	1	1
11	73021	1" hose per foot	-	-
12	73496	Hose barb optional	1	1
12	73547	Hose barb elbow	1	1
13	73497	Hose barb optional	1	1
13	73546	Hose barb elbow	2	2
14	75273	3/4" clamp	2	2

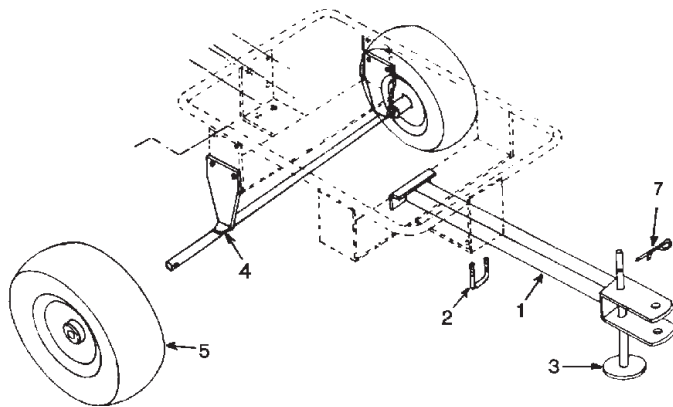
REF NO.	PART NO.	DESCRIPTION	QTY LP	QTY WP
15	73018	3/4" hose per foot	-	-
16	79102	Chain	1	1
17	78312	S hook	1	1
18	76334	Tee valve	1	1
19	76501	Relief valve	1	1
20	73499	Hose barb	4	4
21	75261	1/2" clamp	8	8
22	73014	1/2" hose per foot	-	-
23	75003	Gauge	1	1
26	73421	Street elbow	1	1
24	73544	Hose barb elbow	1	1
27	70006	Pump	-	1
28	70425	Coupler	-	1

**WP716-LP & WP716-WP Pump Kit**

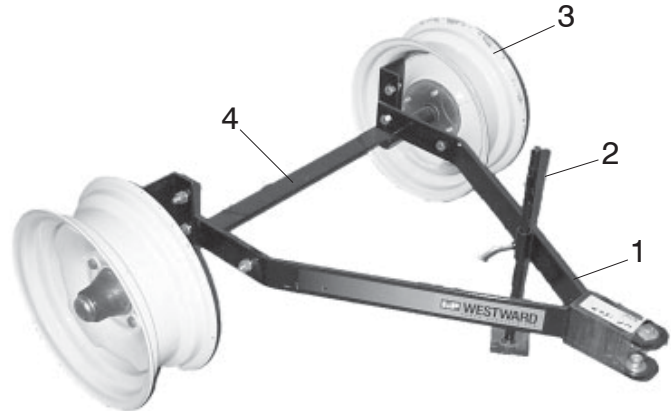


REF NO.	PART NO.	DESCRIPTION	QTY LP	QTY WP
1	76210	Boom valve	3	3
2	77201	Filter	1	1
3	75001	Gauge	1	1
4	79102	Chain	1	1
5	78312	S hook	1	1
6	76004	Valve	1	1
7	73470	Plug	1	1
8	76002	Valve	1	1
9	73402	Tee	1	1
10	73451	Nipple	2	2
11	73449	Nipple	6	6
12	73436	Bushing	1	1
13	73437	Bushing	1	1

REF NO.	PART NO.	DESCRIPTION	QTY LP	QTY WP
14	70100	Pump	-	1
15	73497	Hose barb	3	3
17	73546	Hose barb elbow	3	3
18	73556	Hose barb elbow	2	2
19	73022	1 1/4" hose per foot	-	-
20	73018	3/4" hose per foot	-	-
22	73407	Gauge tee	1	1
23	76401	Relief valve	1	1
24	75277	1 1/4" clamp	2	2
25	75273	3/4" clamp	6	6
26	73014	1/2" hose per foot	-	-
27	75261	1/2" clamp	6	6
28	73538	Hose barb	3	3

**WP20T Trailer Kit**


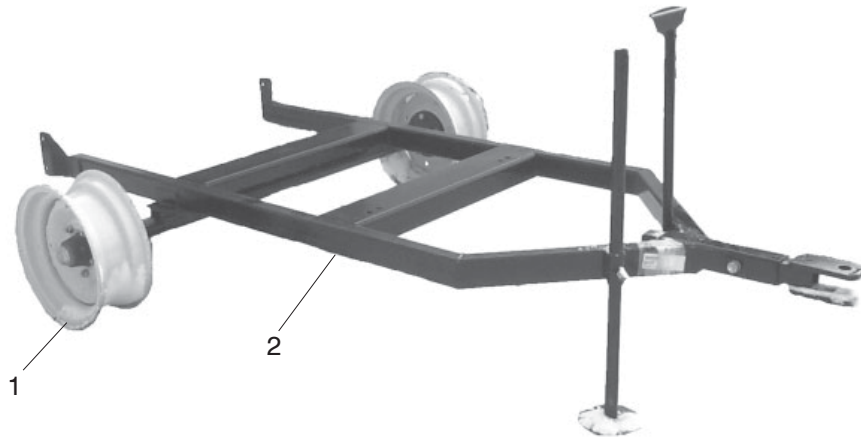
REF NO.	PART NO.	DESCRIPTION	QTY REQ
1	SPP 79116	Tongue	1
2	SPP 78213	Square u-bolt	1
3	SPP 79039	Stand	2
4	SPP 79117	Axle	1
5	SPP 78205	Wheel	2
7	SPP 79112	Hairpin	1
n/s	SPP 79006	Spacer	2
n/s	SPP 79009	Hub cap	2

**WP62T & WP150T Trailer Kit**


REF NO.	PART NO.	DESCRIPTION	QTY WP62T	QTY 150T
1	SPP 79036	Tongue	1	-
2	SPP 79039	Stand	1	-
3	SPP 79058	Wheel	2	-
3	HUB 14 x 5 x 4	Wheel	-	2
4	SPP 79125	Axle	1	-
4	SPP 78927	Axle	-	1
n/s	SPP 79112	Hairpin	1	-
n/s	SPP 79070	Cotter pin	2	2
n/s	HUB DC12	Hub cap	-	2
n/s	SPP 79009	Hub cap	2	-
n/s	HUB H411-3	Hub	-	2
n/s	BEI LM11949	Bearing	-	2
n/s	BEI LM67048	Bearing	-	2
n/s	HUB S411-A09	Spindle	-	2
n/s	HUB SE11	Seal	-	2
n/s	HUB WB10	Wheel bolt	-	8

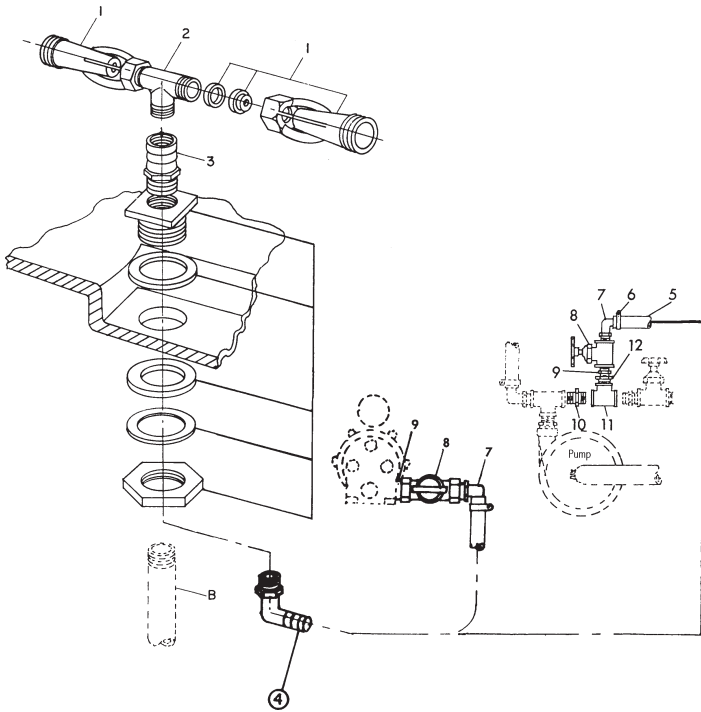


**WP12T & WP3T Trailer Kit**



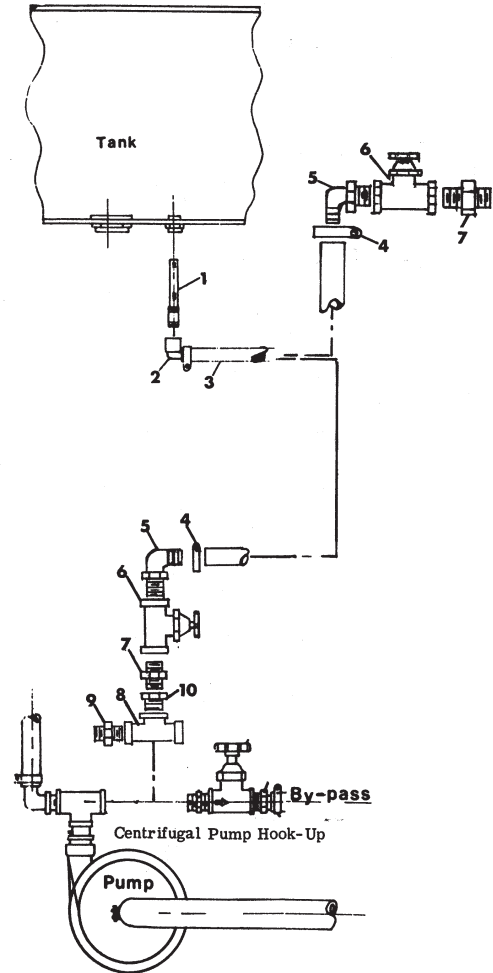
REF NO.	PART NO.	DESCRIPTION	QTY 12T	QTY 3T
1	HUB 15 x 6 x 5	Wheel	2	2
2	SPP 78922	Trailer c/w tongue	1	-
2	SPP 78928	Trailer c/w tongue	-	1
n/s	SPP 79070	Cotter pin	2	2
n/s	HUB DC13	Dust cap	2	2
n/s	HUB H517-2	Hub	2	2
n/s	BEI LM48548	Bearing	2	2
n/s	BEI LM67048	Bearing	2	2
n/s	HUB S517-A02	Spindle	2	2
n/s	HUB SE13	Seal	2	2
n/s	HUB WB11	Nut	10	10

**WP812H Agitator Kit**



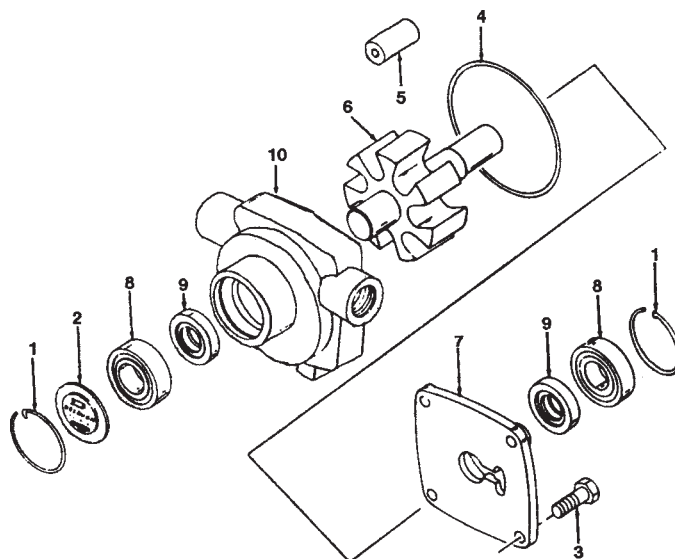
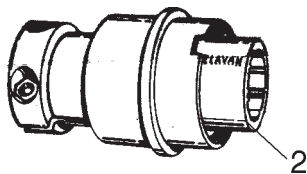
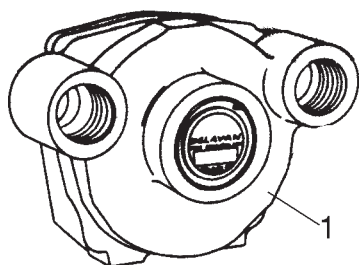
REF NO.	PART NO.	DESCRIPTION	QTY REQ
1	75600	Agitator	2
2	79104	1/2" male tee	1
3	73851	Hose barb threaded	1
4	73544	Hose barb elbow	1
5	73014	1/2" hose per foot	-
6	75261	1/2" clamp	2
7	73538	1/2" hose barb elbow	1
8	76001	Valve	1
9	73448	Nipple	1
10	73449	Nipple	1
11	73402	Tee	1
12	73434	Bushing	1

**WP814H Agitator Kit**



REF NO.	PART NO.	DESCRIPTION	QTY REQ
1	75601	Agitator	1
2	73563	3/4" FPT x 1/2" hose barb elbow	1
3	73014	1/2" hose per foot	-
4	75261	1/2" clamp	2
5	73538	Hose barb elbow	1
6	76001	Valve	1
7	73448	Nipple	1
8	73402	Tee	1
9	73449	Nipple	1
10	73434	Bushing	1

**WP6RC Pump Kit**



REF NO.	PART NO.	DESCRIPTION	QTY REQ
1	70004	Pump	1
2	70400	Coupler	1

**REPLACEMENT PARTS FOR 6 ROLLER PUMP**

REF	PART NO.	REPLACES	DESCRIPTION	QTY. REQ.
1	70803	15070	Snap ring	2
2	70887	46210	Nameplate	1
3	70822	15077	Cap screw	4
4	70821	24819	Seal ring	1
5	70820	19341	Roller, Polypropylene, 11/16"	6
6	70823	31661-8	Stainless steel shaft/ powdered metal rotor	1
7	70824	31664-1	End plate, cast iron	1
8	70808	15072	Ball bearing	2
9	70801	20468	Lip seal, Viton	2
10	70825	24817	Pump body, cast iron	1

**REPAIR KIT FOR 6 ROLLER PUMP**

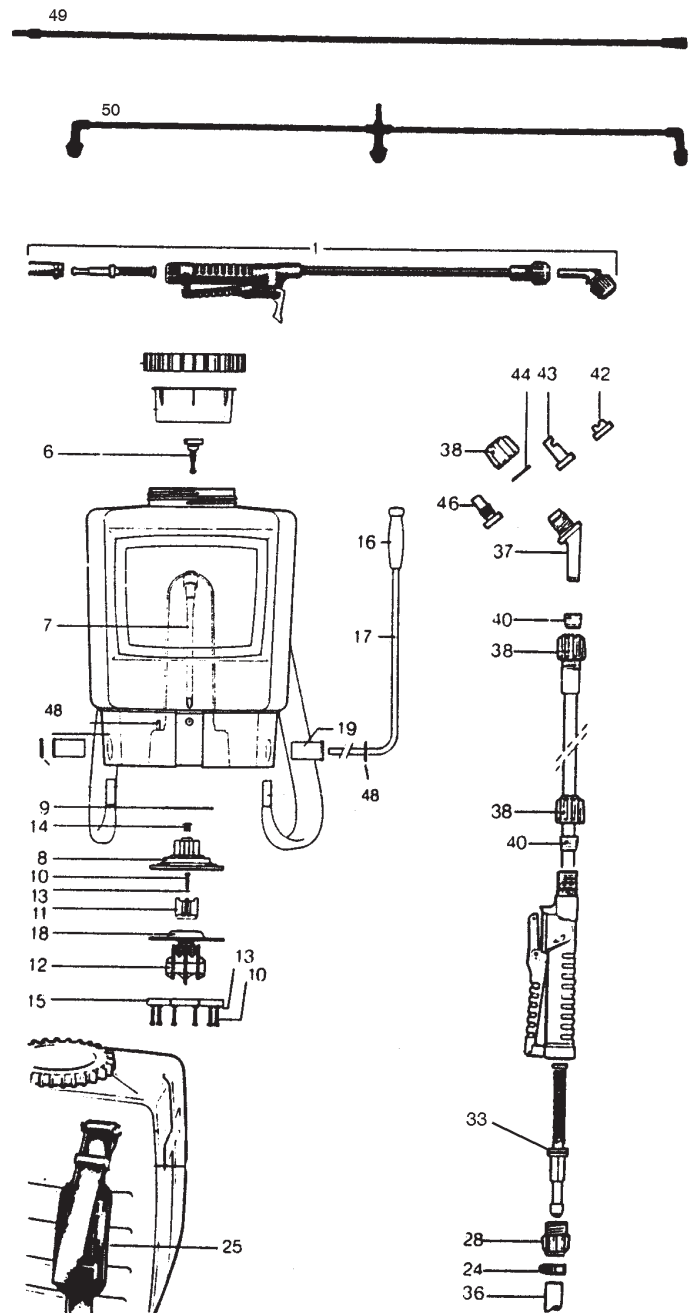
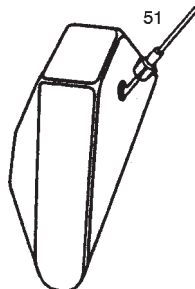
PART NO.	REPLACES	DESCRIPTION	QTY/KIT
70602	48394-1	6 roller pump repair kit	
PART NO.	REPLACES	DESCRIPTION	QTY/KIT
70820	19341	Roller, Polypropylene, 11/16"	6
70801	20468	Shaft seal, Viton A	2
70821	24819	Seal ring	1

**PTP-16/20 Back Pack Sprayer, Parts Only**

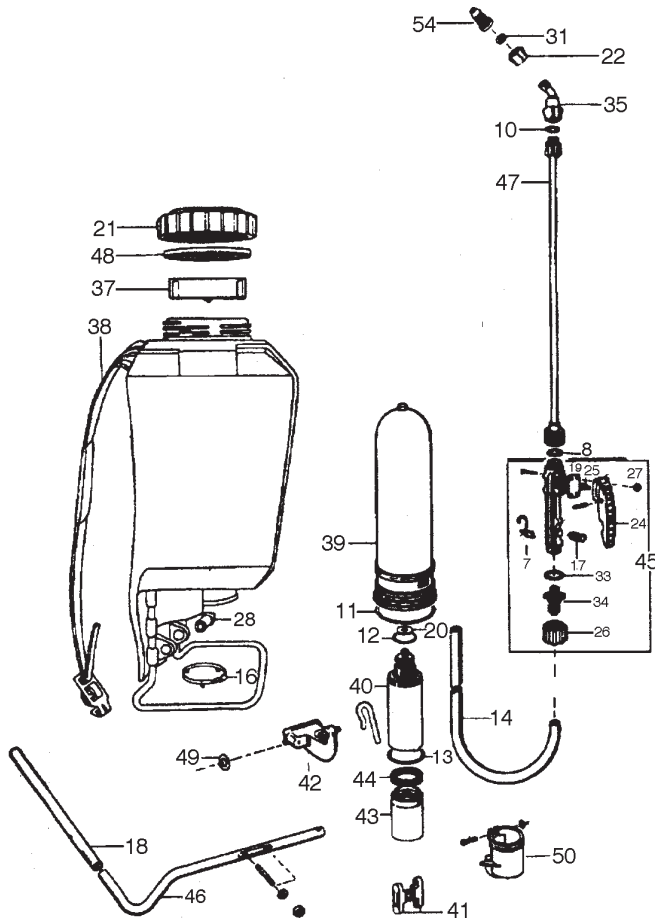
REF NO.	PART NO.	REPLACES	DESCRIPTION
6	74602	1910-006	Relief valve
7	74603	1910-009	Tube
8	74604	1910-010	Liner
9	74605	1910-011	O-Ring
10	74606	1910-012	Screw M5 x 25M
11	74607	1910-014	Piston support
12	74608	1910-015	Piston
13	74609	1910-016	Washer
14	74610	1910-017	Valve
15	74611	1910-018	Clamp ring
16	74612	1910-019	Handle cover
17	74613	1910-020	Lever
18	74614	1910-021	Diaphragm
19	74615	1910-022	Bearing
24	74622	1910-029	Hose clip
25	74620	1910-030	Shoulder pads
28	74443	1912-044	Cap
33	74444	1912-049	O-Ring
36	74445	1912-055	Hose
37	74446	1912-056	Elbow
38	74447	1912-058	Cap
40	74448	1912-062	Grommet
41	74621	1912-066	Washer
42	80-2NER	1902-347	Flat Fan tip
43	72645	1902-401	Flood tip
44	74449	1911-213	Disc
46	74451	1902-503	Adjustable nozzle
48	74617	1910-025	Collar

**ACCESSORIES**

REF NO.	PART NO.	REPLACES	DESCRIPTION
49	74627	1913-069	Extension lance, 1 metre
50	74626	1913-066	Three nozzle boom
51	74628	1913-067	Spray shield, 30 cm



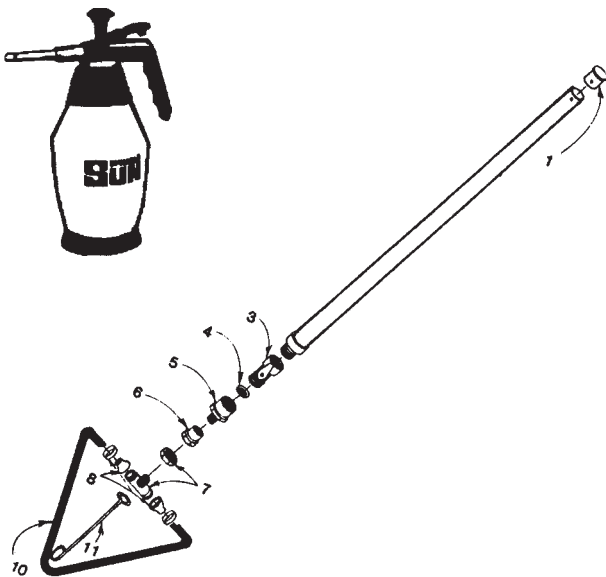
**AP-20, Solo-425 Backpack Sprayer Parts**



**MODEL AP-2 REPAIR PARTS LIST**

PART NO.	REPLACES	DESCRIPTION
74636	5138560	Complete tip
74635	5168262	Plunger & compression tube repair kit
74637	5168264	Shutoff & stem packing repair kit

Individual packings not available



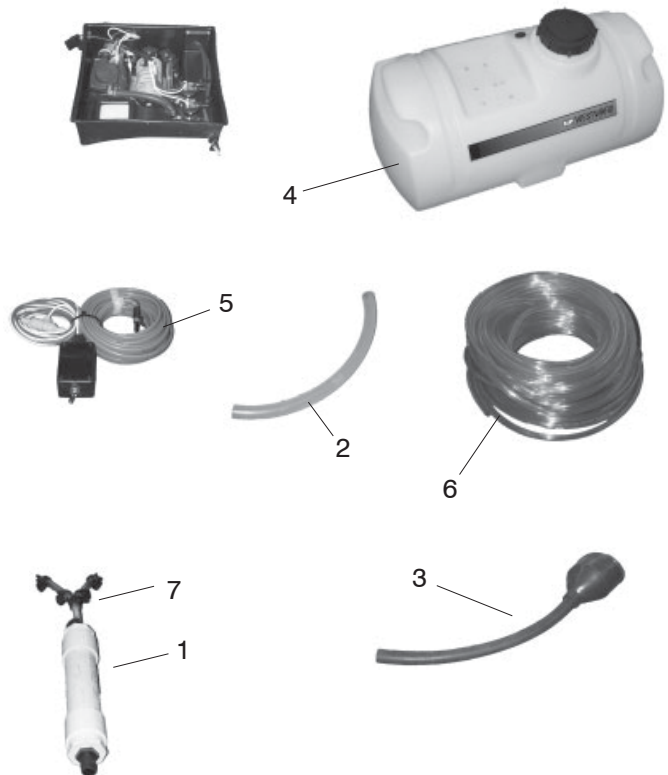
REF NO.	PART NO.	SUN NO.	SOLO NO.	DESCRIPTION
7	74640	16T208	4036250	Hook
8	74641	16G141	0061126	Gasket
10	74643	16R176	0062115	Ring
11*	74644	16R343	0062138	Ring
12*	74645	16R712	0062139	Ring
13*	74646	16R747	0062140	Ring
14	74647	16H707	0064234	Hose
16	74648	16C690	0066147	Clamp
17	74649	16P331	0070110	Pressure spring
18	74650	16H362	4035775	Lever assembly
19	74651	16P401	4061256	Plate
20*	74652	16V469	4061257	Valve plate
21	74653	16T485	4073179	Tank cap
22	74654	16S530	4074148	Screw cap
24	74655	16L107	4074151	Lever
25	74656	16V397	407453	Valve plug
26	74657	16S645	4074199	Screw cap
27	74658	16B901	4074225	Bracket
28	74659	16B902	4074410	Bushing
31	74662	16J905	4700103	Filter or gasket
33	74664	16P866	0061266	Gasket
34	74665	16C711	4074500	Connection
35	74666	16A455	4074527	Elbow assembly
37	74667	16F540	4200166	Filter assembly
38	74668	16C230	4300160	Carrying strap
39	74669	16V225	4400167	Vacuum tank
40	74670	16C126	4400168	Cylinder assembly
41	74671	16C148	4074409	Connecting rod
42	74672	16L170	4012540	Lever assembly
43	74673	16P150	4400191	Piston
44*	74674	16C151	4400189	Collar
45	74675	16S775	4800108	Shut-off assembly
46	74676	16L189	4035783	Lever
47	74677	16S783	4900230	Extension 24"
48	74678	16G322	4061342	Gasket
49	74630	16W110		Washer
50	74631	16C550		Cup
54	74679	15S506		Adjustable nozzle
	74660	16F903		Flat spray tip
	74661	15S904		Swirl plate
	74663	16J861		Jet cap
*	74223	5168550		Repair kit (marked *)

**WAND WIPER (74700)**

REF NO.	PART NO.	SUN NO.	QTY	DESCRIPTION
1	74680	5046092	1	Cap
3	74682	5143188	1	P.P. ball valve, 3/4" FGHT - 3/4" MGHT
4	73644	5016066	1	Hose washer
5	74684	5005171	1	Nylon adapter, 3/4" FGHT - 1/4" MNPT
6	72413	5005137	1	Nylon nozzle adapter
7	72490	5056056	1	Nylon "T" connector, 3/4"
8	74685	5124037	2	Boot
10	74687	5113008	1	1/2" rope x 26 1/2" long
11	74688	5019132	1	Spring

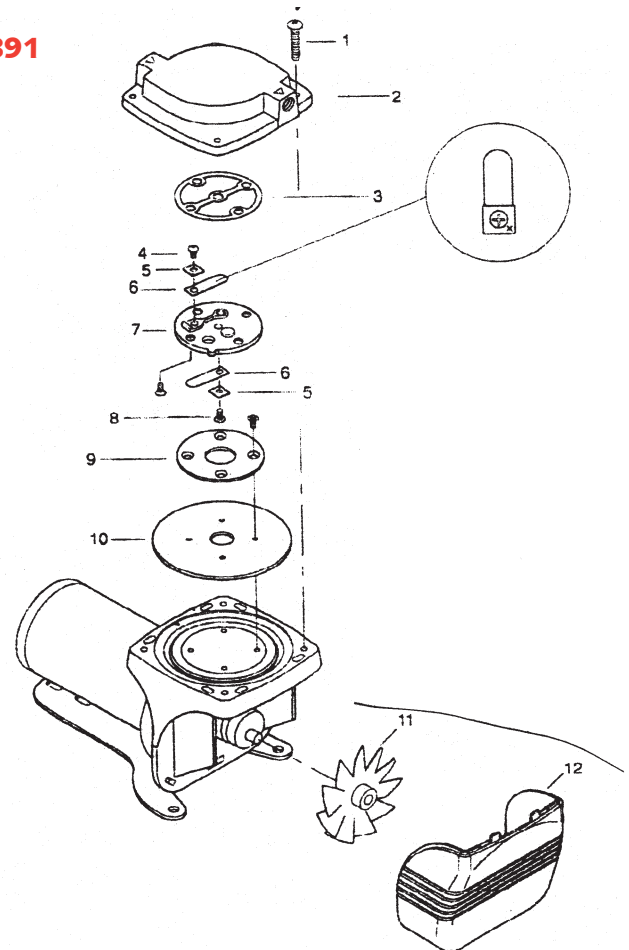
**FM25 Foam Marker Parts**

REF NO.	PART NO.	DESCRIPTION	QTY REQ
1	SPP 78342	Foam generator only	2
2	SPP 78343	5/16" ID vinyl tubing	-
2	SPP 73032	3/4" ID EVA tubing	-
3	SPP 77198	Foam collector c/w sock and cone & clamp	2
4	SPP 78347	14 gallon tank w/lid	-
4	SPP 78348	25 gallon tank w/lid	-
5	SPP 78349	Primary cable	1
6	SPP 78352	1/4" twin line hose, per ft.	-
7	SPP 74977	Foam Marker Y Assembly	2
n/s	SPP 78891	12 volt air pump (Parts Breakdown Next Page)	1
n/s	SPP 73994	1/8" MPT x 3/8" barb brass 90	1
n/s	HOS 73012	3/8" ID rubber hose	-
n/s	SPP 75269	Speedy clamp, size 3/8"	4
n/s	SPP 78341	1/4" chromed valve	1
n/s	SPP 75260	Speedy clamp, size 5/16"	16
n/s	SPP 78344	Liquid pump 12 volt	1
n/s	SPP 72488	3/8" nozzle body tee	1
n/s	SPP 78345	Nozzle check valve	1
n/s	SPP 74458	#37 metering plate	1
n/s	SPP 73523	3/8" hose shank	1
n/s	SPP 72400	Nozzle cap	1
n/s	SPP 73531	1/4" MPT x 3/8" barb poly 90	1
n/s	SPP 76667	3-way solenoid valve	2
n/s	SPP 73528	1/4" MPT x 1/4" barb 90	4
n/s	SPP 74903	Nylon tie strap	12
n/s	HAR HS12	3/4" hose clamp	-
n/s	HAR HS20	1" hose clamp	-
n/s	SPP 73563	3/4" FPT x 3/4" barb 90	2
n/s	SPP 73496	3/4" MPT x 1" barb	2
n/s	SPP 78346	Pump enclosure and lid	1
n/s	SPP 79107	Tank lid	1
n/s	SPP 78350	Final cable assembly	1
n/s	SPP 78351	Valve jumper wire	2
n/s	SPP 78353	Toggle switch	1
n/s	SPP 77199	Collector sock	2
n/s	SPP 78354	Air pump head assembly	1
n/s	SPP 78355	Air pump valve flapper	1
n/s	SPP 78356	Air pump valve plate gasket	1
n/s	SPP 79561	Hose barb	1
n/s	SPP 79106	Tank fitting	1
n/s	SPP 78934	Intake tube	1
n/s	SPP 77268	Intake screen	1



**Exploded View & Parts Ordering Information**

**FOR AIR PUMP PART NO. 78891**



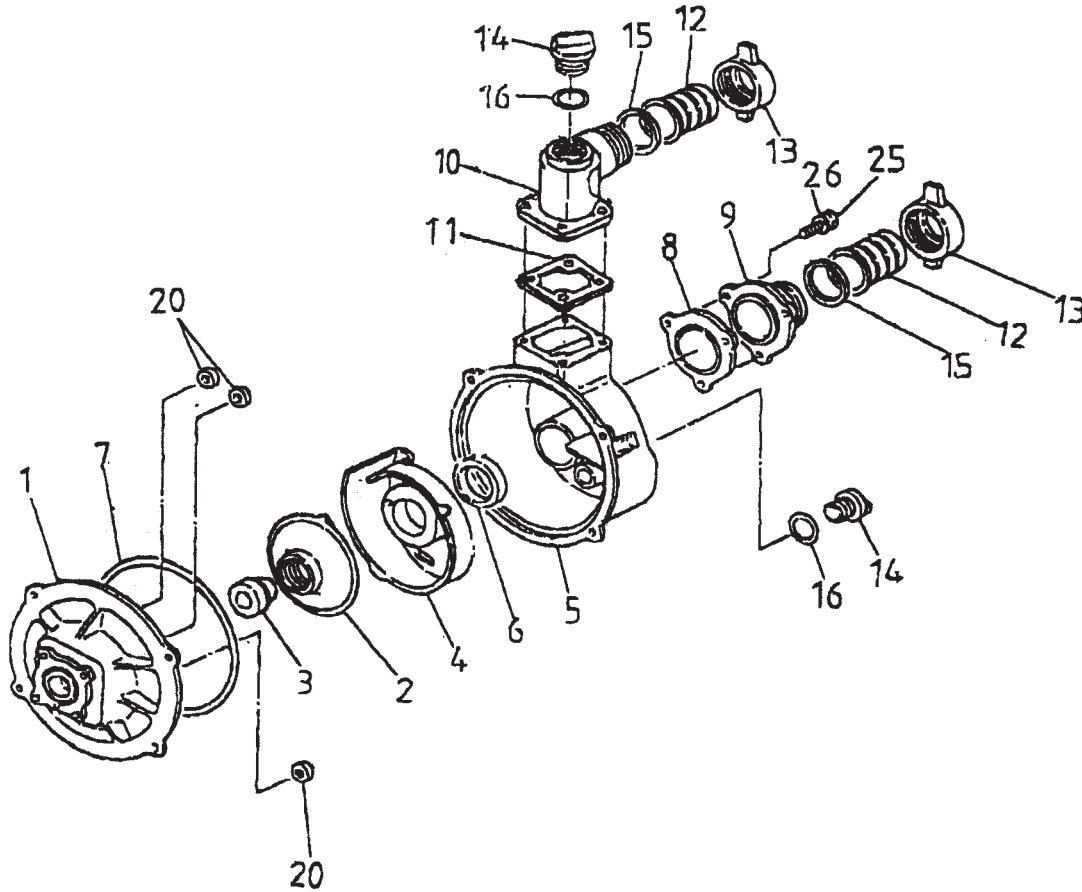
REF NO.	PART NO.	DESCRIPTION	QTY
1		Head Screws	4
2	74895	Head	1
3*	74892	Head gasket	1
4*	KIT	Intake Valve Screw	1
5*	74893	Retainer Valve	2
6*	74959	Valve	2
7	74896	Valve Plate	1
8*	KIT	Exhaust Valve Screw	1
9	74897	Retainer Plate	1
10	74894	Diaphragm (Neoprene material)	1
11	74898	Fan	1
12		Grille	1
	74891	Service Kit	1

\* Denotes parts included in Service Kit

**Centrifugal Water Pump Parts Listing**

**2" AND 3" HONDA POWERED WATER PUMPS WSS2040 (2") WSS2050 (2") WSS3050 (3")**

General purpose centrifugal water pumps constructed from aluminum for performance reliability, durability, and lightweight portability. These pumps are economical and ideal for drainage and most general purpose water pumping applications including effluent.

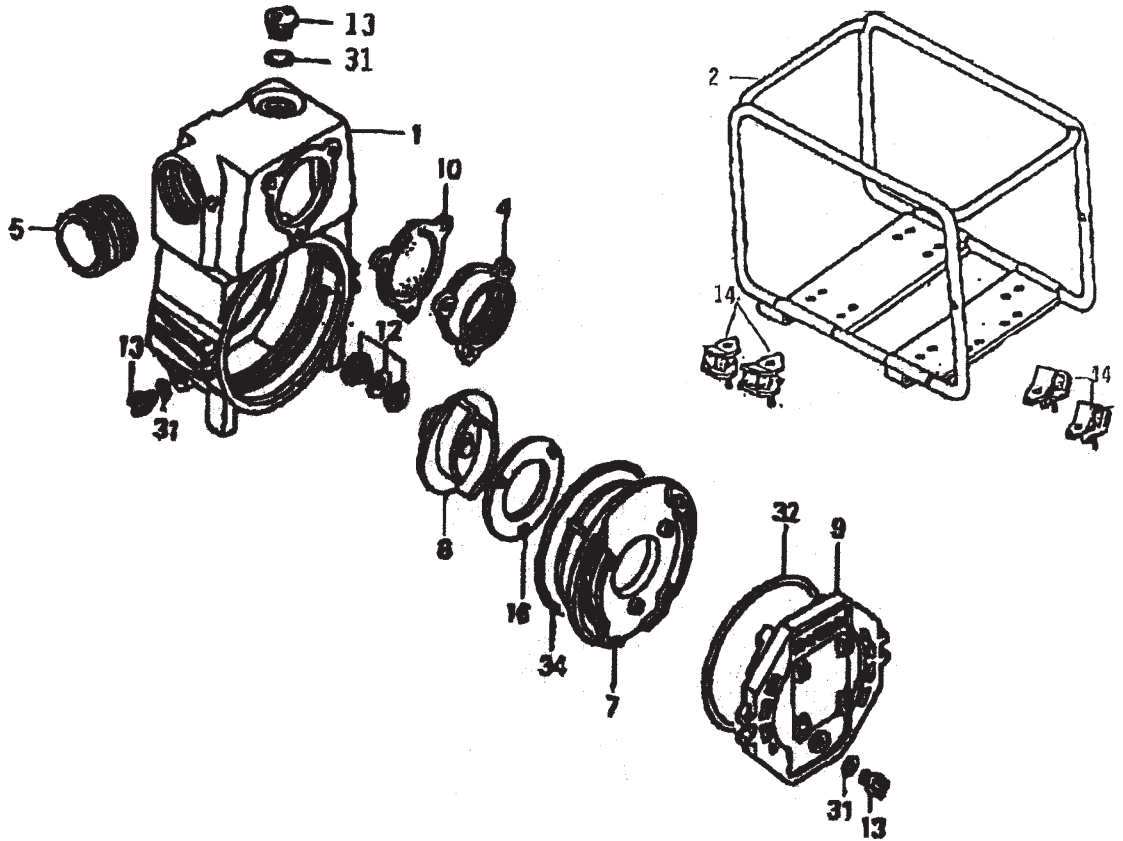


REF NO.	PART NO.	DESCRIPTION	QTY 2040 2050	QTY 3050
1	77960	Casing cover	1	-
1	77961	Casing cover	-	1
2	77962	Impeller (cast iron)	1	-
2	77963	Impeller (cast iron)	-	1
3	77964	Ceramic seal	1	1
4	77965	Volute	1	-
4	77966	Volute	-	1
5	77967	Casing	1	-
5	77968	3" casing	-	1
6	77969	Packing	1	-
6	77970	Packing	-	1
7	77971	O-ring	1	-
7	77972	O-ring	-	1

REF NO.	PART NO.	DESCRIPTION	QTY 2040 2050	QTY 3050
8	77973	Check valve	1	-
8	77974	Check valve	-	1
9	77975	Inlet housing	1	-
9	77976	Inlet housing	-	1
10	77977	Outlet housing	1	-
10	77978	Outlet housing	-	1
11	77979	Gasket	1	-
11	77980	Gasket	-	1
12,13,15	74104	Adapter (Not exactly as shown)	2	-
12,13,15	74105	Adapter (Not exactly as shown)	-	2
14	77984	Plug	2	2
16	77983	O-Ring	2	2
20	77985	Plastic washer	2	2
n/s	78412	Strainer for 2" pump		
n/s	78413	Strainer for 3" Pump		



**3" Trash Pump Breakdown WSS T3080 (3")**



REF NO.	PART NO.	DESCRIPTION	QTY 3080
1	77922	Casing	1
4	77924	Inlet housing	1
5	77926	Adapter	1
7	77929	Case, volute	1
8	77921	Impeller (cast impeller)	1
9	77920	Casing cover	1
10	77925	Check valve	1
12	77932	Mechanical Seal	1
13	77927	Plug	1
14	74971	Rubber Foot	4
16	77931	Liner	1
28	74970	Packing Seal (Not shown)	4
31	77928	O-Ring	1
32	77923	O-Ring	1
34	77930	O-Ring	1

**Shurflo - Electric Back Pack Sprayer Parts**

**PART NO. SPW SRS-540**

Part Number	Replaces	Description
74899	94-531-00	Lid
74876	94-532-00	Inlet strainer
74877	94-533-00	Tri-glides (2)
74878	94-534-00	Shoulder Harness
74879	94-535-00	Waist Belt and Buckles
74840	94-536-00	Complete Battery Pack Assembly
74841	94-537-00	Wall Charger and Cable
74842	94-538-00	Complete Pump Assembly with Inlet and Outlet Hoses and Hardware
74843	94-539-00	PCB with Wire Harness
74844	94-541-00	Tank Only
74845	94-542-00	Spray Wand with Clamp and Inline Strainer
74846	94-543-00	Pump Cover and Mounting Screws
74847	94-544-00	Spray Hose and Hardware