



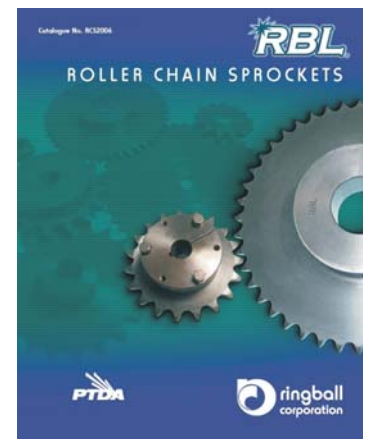
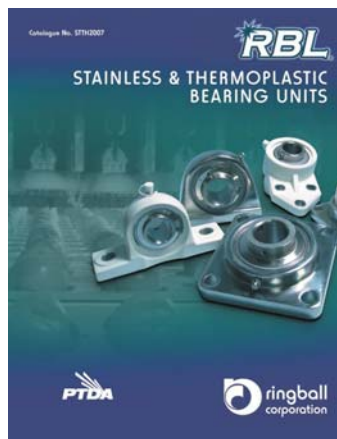
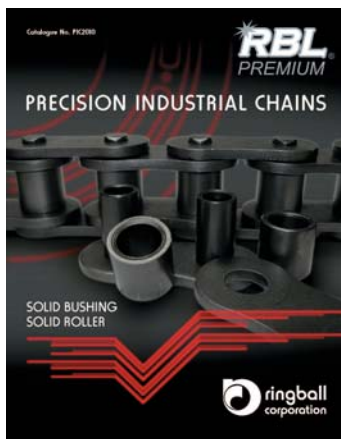
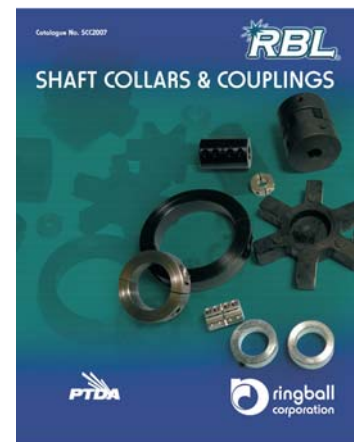
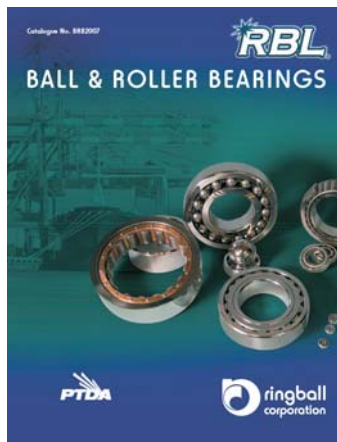
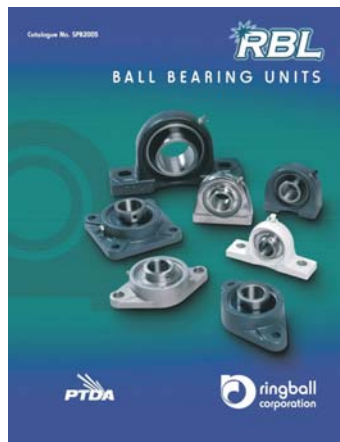
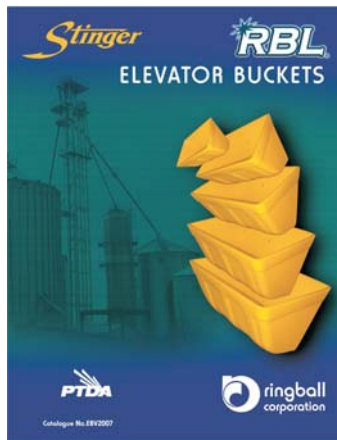
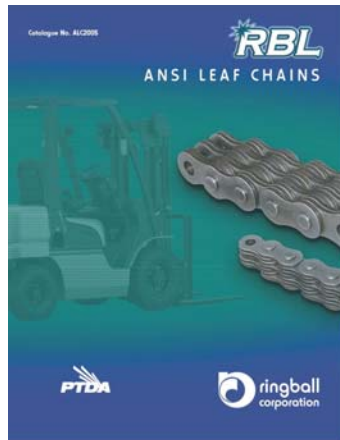
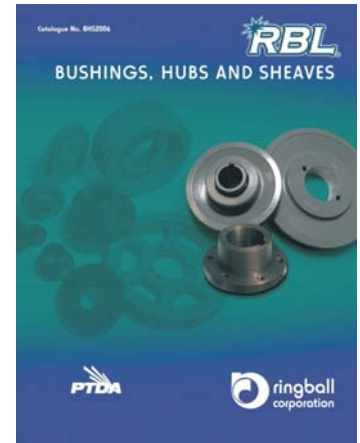
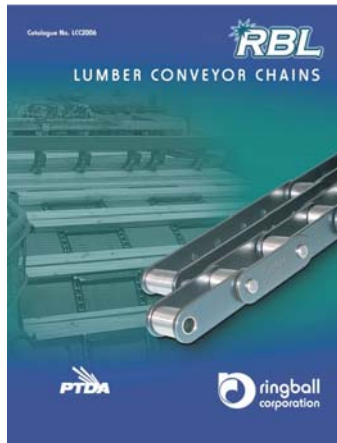
SPHERICAL PLAIN & ROD END BEARINGS



Other Available



Catalogues



Spherical Plain Bearings

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Spherical plain bearings are pre-finished machine parts with spherical sliding surfaces which are constructed for tilting, swivelling or circular movements at slow sliding speeds. They are particularly suitable for bearing arrangements where movements between shaft and housing or alignment movements have to be accommodated.

Spherical plain bearings are divided into two main groups:

1. spherical plain bearings requiring maintenance
2. maintenance free spherical plain bearings

Factors reducing the lifetime of spherical plain bearings are for example dirt, humidity and vibrations. For critical applications please contact RBL.

Spherical plain bearings requiring maintenance

Steel on steel combination:

The inner and outer rings are composed of hardened and phosphated bearing steel and the spherical sliding surfaces are treated with a running-in lubricant.

Operating temperature -60°C up to $+150^{\circ}\text{C}$ and -30°C up to $+130^{\circ}\text{C}$ for the sealed (2RS).

Stainless Steel on bronze combination:

The outer rings are composed of stainless steel with holes for mounting the inner rings which are composed of aluminium bronze

In order to guarantee an efficient function of the bearings they require regular maintenance and lubrication which can take place via lubrication holes and oil grooves. Steel on steel spherical plain bearings are especially suitable for bearing arrangements where heavy loads of alternating direction, shock loads or heavy static loads have to be accommodated.

Maintenance free spherical plain bearings

Steel on PTFE-composite material:

The inner rings are composed of hardened bearing steel with a hardchrome-plated sliding surface. The outer rings are composed of steel with PTFE-composite material which is pressed around the inner rings. Operating temperature -50°C up to $+150^{\circ}\text{C}$.

Stainless steel on PTFE-fabric:

The outer rings are composed of hardened stainless steel with firmly glued PTFE-fabric.

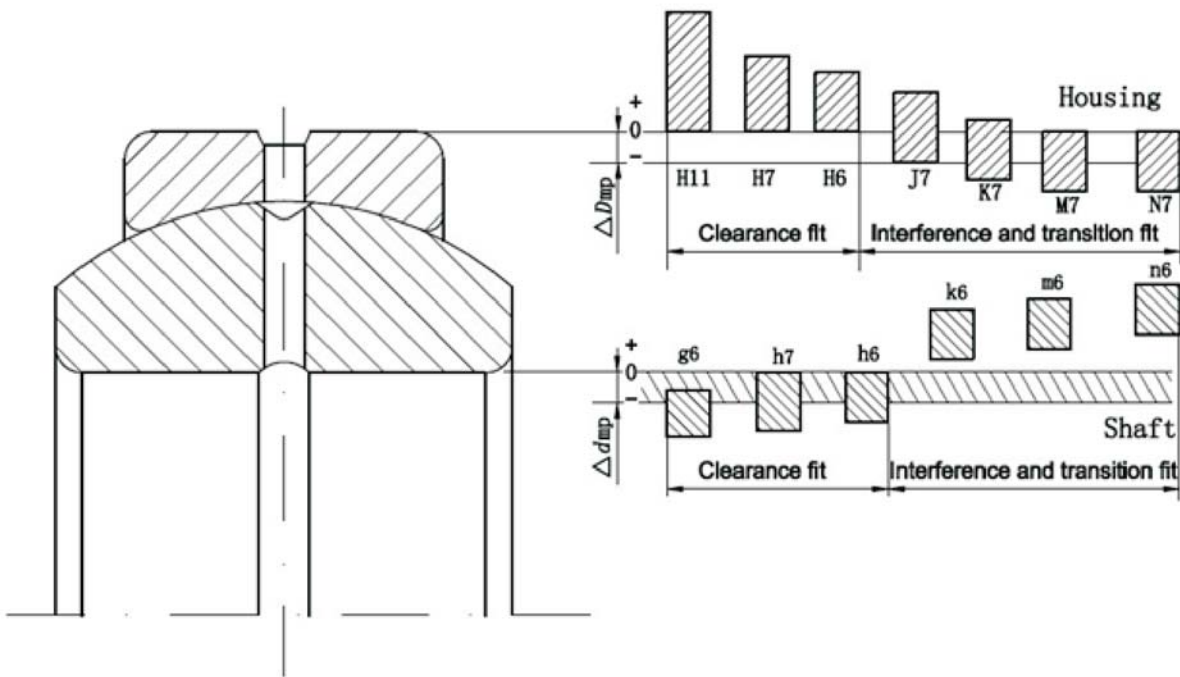
The inner rings are composed of hardened stainless steel.

Maintenance free bearings with PTFE-composite material or PTFE-fabric are particularly suitable for one-sided loads and applications which can not be lubricated. Operating temperature -60°C up to $+150^{\circ}\text{C}$

Please note: These bearings must not be lubricated! Lubrication reduces the lifetime!

Generally speaking, satisfactory radial location and adequate support can only be obtained when the inner and outer rings are mounted with an appropriate degree of interference. Inadequately or incorrectly secured bearing rings may cause damage to the bearings and associated components. Therefore it is necessary to make careful investigation in selecting a proper fit. Some of the bearing failures caused by improper fit are listed below:

- * Spherical surface cracking, early flaking and displacement of spherical surface
- * Abrasion caused by creeping between bearing and shaft housing
- * Seizing caused by negative internal clearances
- * Increase noise and deteriorated rotational accuracy due to spherical surface deformation



Inner ring of spherical plain bearing

d	over	-	6	10	18	30	50	80	120	180	250
mm	incl	6	10	18	30	50	80	120	180	250	315
GE..E	0	0	0								
	-0.008	-0.008	-0.008								
GE..ES			0	0	0	0	0	0	0	0	0
			-0.008	-0.01	-0.012	-0.015	-0.02	-0.025	-0.03	-0.035	
GE..ES 2RS			0	0	0	0	0	0	0	0	0
			-0.008	-0.01	-0.012	-0.015	-0.02	-0.025	-0.03	-0.035	
GEG..E	0	0									
	-0.008	-0.008									
GEG..ES			0	0	0	0	0	0	0	0	
			-0.008	-0.01	-0.012	-0.015	-0.02	-0.025	-0.03		
GEG..ES 2RS			0	0	0	0	0	0	0		
			-0.008	-0.01	-0.012	-0.015	-0.02	-0.025	-0.03		
GE..LO			0.018	0.021	0.025	0.03	0.035	0.04			
			0	0	0	0	0	0			
GE..HO 2RS				0	0						
				-0.01	-0.012	-0.015					
GEZ..ES			0	0	0	0	0	0			
GEGZ..ES			-0.008	-0.01	-0.012	-0.015	-0.02	-0.025			
GEZ..ES 2RS			0	0	0	0	0	0			
GEGZ..ES 2RS			-0.008	-0.01	-0.012	-0.015	-0.02	-0.025			
GE..SX				0	0	0	0	0	0		
				-0.012	-0.012	-0.015	-0.02	-0.025	-0.03		
GE..AX	0	0	0	0	0	0	0	0	0		
	-0.008	-0.008	-0.008	-0.01	-0.012	-0.015	-0.02	-0.025	-0.03		
GE..UK	0	0	0	0	0						
	-0.008	-0.008	-0.008	-0.01	-0.012						
GE..UK 2RS			0	0	0	0	0	0	0		
			-0.008	-0.01	-0.012	-0.015	-0.02	-0.025	-0.03		
GE..FW	0	0	0	0							
	-0.008	-0.008	-0.008	-0.01							
GE..FW 2RS			0	0	0	0	0	0	0		
			-0.008	-0.01	-0.012	-0.015	-0.02	-0.025	-0.03		
GE..SW				0	0	0	0	0	0		
				-0.012	-0.012	-0.015	-0.02	-0.025	-0.03		
GE..AW	0	0	0	0	0	0	0	0	0	0	
	-0.008	-0.008	-0.008	-0.01	-0.012	-0.015	-0.02	-0.025	-0.03	-0.035	

Inner ring width tolerance

d	over	-	50	80	120	180	250	315
mm	incl	50	80	120	180	250	315	400
<i>B_s</i>		0	0	0	0	0	0	0
		-0.12	-0.15	-0.2	-0.25	-0.3	-0.35	-0.4

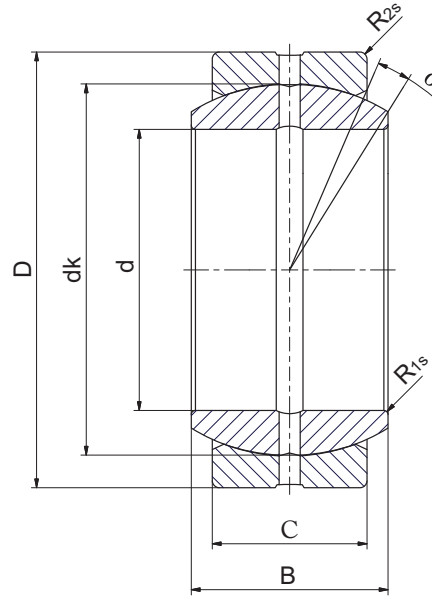
Outer ring of spherical plain bearing

D	over	10	18	30	50	60	80	120	150	180	250	315
mm	incl	18	30	50	60	80	120	150	180	250	315	400
GE..E		0	0									
		-0.008	-0.009									
GE..ES			0	0	0	0	0	0	0	0	0	0
			-0.009	-0.011	-0.013	-0.013	-0.015	-0.018	-0.025	-0.03	-0.035	-0.04
GE..ES 2RS				0	0	0	0	0	0	0	0	0
				-0.011	-0.013	-0.013	-0.015	-0.018	-0.025	-0.03	-0.035	-0.04
GEG..E		0	0	0								
		-0.008	-0.009	-0.011								
GEG..ES				0	0	0	0	0	0	0	0	0
				-0.011	-0.013	-0.013	-0.015	-0.018	-0.025	-0.03	-0.035	-0.04
GEG..ES 2RS				0	0	0	0	0	0	0	0	0
				-0.011	-0.013	-0.013	-0.015	-0.018	-0.025	-0.03	-0.035	-0.04
GE..LO				0	0	0	0	0	0	0	0	0
				-0.011	-0.013	-0.013	-0.015	-0.018	-0.025	-0.03	-0.035	-0.04
GE..HO 2RS				0	0	0	0	0				
				-0.011	-0.013	-0.013	-0.015	-0.018				
GEZ..ES			0	0	0	0	0	0	0	0		
			-0.009	-0.011	-0.013	-0.013	-0.015	-0.018	-0.025	-0.03		
GEZ..ES 2RS				0	0	0	0	0				
				-0.011	-0.013	-0.013	-0.015	-0.018				
GEZ..ES 2RS				0	0	0	0	0	0	0	0	0
				-0.011	-0.013	-0.013	-0.015	-0.018				
GE..SX				-0.014	-0.016	-0.016	-0.018	-0.02	-0.025	-0.03	-0.035	-0.04
				0	0	0	0	0	0	0	0	0
GE..AX			0	0	0	0	0	0	0	0	0	0
			-0.009	-0.011	-0.013	-0.013	-0.015	-0.018	-0.025	-0.03	-0.035	-0.04
GE..UK		0	0	0								
		-0.008	-0.009	-0.011								
GE..UK 2RS			0	0	0	0	0	0	0	0	0	0
			-0.009	-0.011	-0.013	-0.013	-0.015	-0.018	-0.025	-0.03	-0.035	-0.04
GE..FW		0	0	0								
		-0.008	-0.009	-0.011	-0.013							
GE..FW 2RS			0	0	0	0	0	0	0	0	0	0
			-0.009	-0.011	-0.013	-0.013	-0.015	-0.018	-0.025	-0.03	-0.035	-0.04
GE..SW				0	0	0	0	0	0	0	0	0
				-0.014	-0.016	-0.016	-0.018	-0.02	-0.025	-0.03	-0.035	-0.04
GE..AW			0	0	0	0	0	0	0	0	0	0
			-0.009	-0.011	-0.013	-0.013	-0.015	-0.018	-0.025	-0.03	-0.035	-0.04

Outer ring width tolerance

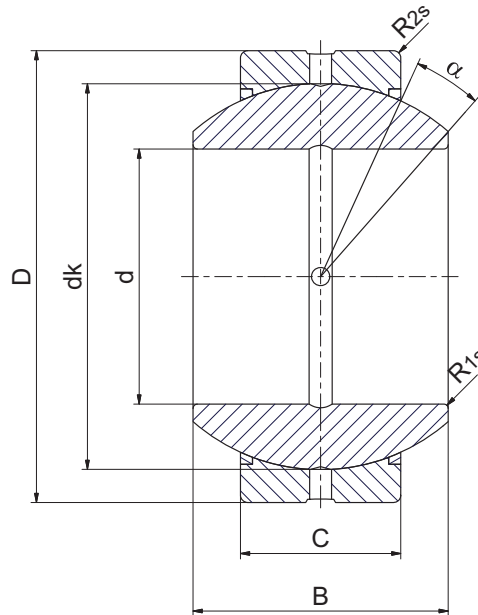
d	over	-	50	80	120	180	250	315
mm	incl	50	80	120	180	250	315	400
C_s		0	0	0	0	0	0	0
		-0.24	-0.3	-0.4	-0.5	-0.6	-0.7	-0.8

**Sliding contact surface:
Steel/Steel**



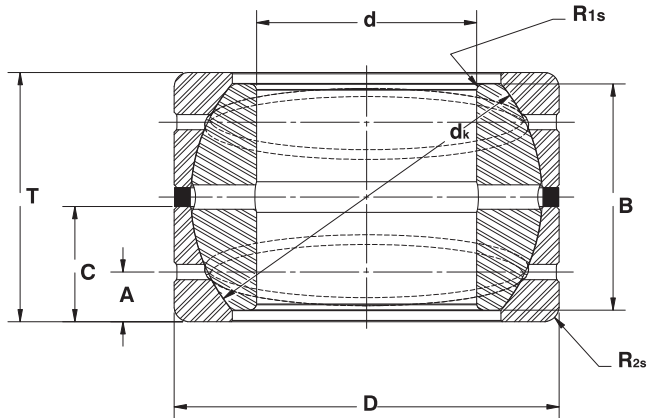
RBL Part No.	DIMENSIONS (INCH)								load ratings lbf		weight
	d	D	B	C	dk	R _{1s} min	R _{2s} min	α ≈	dyn. C	stat. C ₀	lbs
GEZ 12 ES	0.5000	0.8750	0.437	0.375	0.709	0.012	0.024	6	2923	9217	0.048
GEZ 15 ES	0.6250	1.0625	0.547	0.469	0.906	0.012	0.024	6	4946	14613	0.079
GEZ 19 ES	0.7500	1.2500	0.656	0.562	1.083	0.012	0.024	6	6969	21357	0.117
GEZ 22 ES	0.8750	1.4375	0.765	0.656	1.260	0.012	0.024	6	9442	28551	0.187
GEZ 25 ES GEZ 25 ES 2RS	1.0000	1.6250	0.875	0.750	1.437	0.012	0.024	6	12589	37318	0.266
GEZ 31 ES GEZ 31 ES 2RS	1.2500	2.0000	1.093	0.937	1.791	0.024	0.024	6	19334	58450	0.510
GEZ 34 ES GEZ 34 ES 2RS	1.3750	2.1875	1.187	1.031	1.929	0.024	0.039	6	22931	69691	0.772
GEZ 38 ES GEZ 38 ES 2RS	1.5000	2.4375	1.312	1.125	2.154	0.024	0.039	6	28101	84303	0.928
GEZ 44 ES GEZ 44 ES 2RS	1.7500	2.8125	1.531	1.312	2.516	0.024	0.039	6	38218	114653	1.410
GEZ 50 ES GEZ 50 ES 2RS	2.0000	3.1875	1.750	1.500	2.874	0.024	0.039	6	50357	150622	2.050
GEZ 57 ES GEZ 57 ES 2RS	2.2500	3.5625	2.166	1.687	3.228	0.024	0.039	6	62946	191088	2.926
GEZ 63 ES GEZ 63 ES 2RS	2.5000	3.9375	2.187	1.875	3.622	0.024	0.039	6	79807	238297	4.070
GEZ 69 ES GEZ 69 ES 2RS	2.7500	4.3750	2.406	2.062	3.937	0.039	0.039	6	93296	281011	5.324
GEZ 76 ES GEZ 76 ES 2RS	3.0000	4.7500	2.625	2.250	4.311	0.039	0.039	6	112404	337213	6.820
GEZ 82 ES GEZ 76 ES 2RS	3.2500	5.1250	2.844	2.437	4.724	0.039	0.039	6	131513	395664	8.404
GEZ 88 ES GEZ 88 ES 2RS	3.5000	5.5000	3.062	2.625	5.118	0.039	0.039	6	152870	458610	10.538
GEZ 95 ES GEZ 95 ES 2RS	3.7500	5.8750	3.281	2.812	5.394	0.039	0.039	6	175351	530549	12.760
GEZ 101 ES GEZ 101 ES 2RS	4.0000	6.2500	3.500	3.000	5.748	0.039	0.039	6	202328	595744	15.400
GEZ 107 ES GEZ 107 ES 2RS	4.2500	6.6250	3.719	3.187	6.098	0.039	0.039	6	224809	651946	18.502
GEZ 114 ES GEZ 114 ES 2RS	4.5000	7.0000	3.938	3.375	6.476	0.039	0.039	6	251786	764350	21.560
GEZ 120 ES GEZ 120 ES 2RS	4.7500	7.3750	4.156	3.562	6.831	0.039	0.039	6	281011	843033	25.300
GEZ 127 ES GEZ 127 ES 2RS	5.0000	7.7500	4.375	3.750	7.205	0.039	0.039	6	314732	932957	29.700
GEZ 152 ES GEZ 152 ES 2RS	6.0000	8.7500	4.750	4.125	8.150	0.039	0.039	5	388919	1169006	38.500

Sliding contact surface:
Steel/Steel



RBL Part No.	DIMENSIONS (INCH)									load ratings lbf		weight lbs
	d	D	B	C	dk	R _{1s} min	R _{2s} min	α ≈	dyn. C	stat. C ₀		
GEGZ 31 ES GEGZ 31 ES 2RS	1.2500	2.4375	1.3900	1.1250	2.1535	0.0236	0.0394	15	28101	84303	1.0	
GEGZ 38 ES GEGZ 38 ES 2RS	1.5000	2.8125	1.5800	1.3120	2.5157	0.0236	0.0394	14	38218	114653	1.6	
GEGZ 44 ES GEGZ 44 ES 2RS	1.7500	3.1875	1.8200	1.5000	2.8740	0.0236	0.0394	14	50357	150622	2.5	
GEGZ 50 ES GEGZ 50 ES 2RS	2.0000	3.5625	2.0700	1.6870	3.2283	0.0236	0.0394	14	62946	191088	3.7	
GEGZ 57 ES GEGZ 57 ES 2RS	2.2500	3.9375	2.3180	1.8750	3.6220	0.0236	0.0394	14	79807	238297	4.4	
GEGZ 63 ES GEGZ 63 ES 2RS	2.5000	4.3750	2.5450	2.0620	3.9370	0.0394	0.0394	14	93296	281011	6.5	
GEGZ 69 ES GEGZ 69 ES 2RS	2.7500	4.7500	2.7900	2.2500	4.3110	0.0394	0.0394	14	112404	337213	8.0	
GEGZ 76 ES GEGZ 76 ES 2RS	3.0000	5.1250	3.0220	2.4370	4.6850	0.0394	0.0394	14	131513	395664	9.6	
GEGZ 82 ES GEGZ 82 ES 2RS	3.2500	5.5000	3.2650	2.6250	5.0394	0.0394	0.0394	14	152870	458610	11.7	
GEGZ 88 ES GEGZ 88 ES 2RS	3.5000	5.8750	3.5600	2.8120	5.3937	0.0394	0.0394	14	175351	530549	15.0	
GEGZ 95 ES GEGZ 95 ES 2RS	3.7500	6.2500	3.7380	3.0000	5.7480	0.0394	0.0394	14	202328	595744	19.5	
GEGZ 101 ES GEGZ 101 ES 2RS	4.0000	6.6378	4.2250	3.3750	6.4764	0.0394	0.0394	10	251786	764350	22.4	

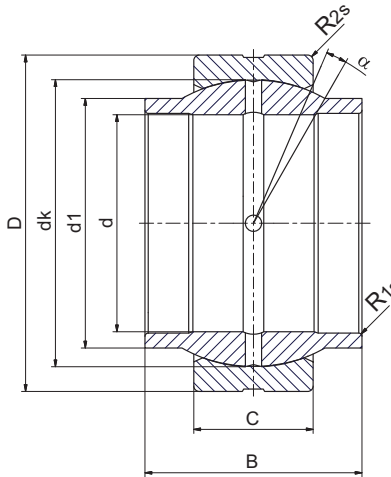
**Sliding contact surface:
Steel/Steel**



RBL Part No.	DIMENSIONS (INCH)									load ratings lbf		Weight lbs
	d	D	B	C	T	A	dk	R1s min	R2s min	dyn. C	stat. Co	
GEGZ 31 HS/K	1.2500	2.4375	1.3900	0.6600	1.5000	0.3120	2.1535	0.0394	0.0984	22256	88800	0.80
GEGZ 38 HS/K	1.5000	2.8125	1.5800	0.7900	1.7600	0.3280	2.5157	0.0394	0.0984	30349	121397	1.20
GEGZ 44 HS/K	1.7500	3.1875	1.8200	0.9200	2.0200	0.3750	2.8740	0.0591	0.1378	40466	161862	2.15
GEGZ 50 HS/K	2.0000	3.5625	2.0700	1.0500	2.2800	0.4530	3.2283	0.0591	0.1378	51706	206824	3.04
GEGZ 57 HS/K	2.2500	3.9375	2.3180	1.1800	2.5400	0.5000	3.6220	0.0591	0.1378	66319	265275	4.18
GEGZ 63 HS/K	2.5000	4.3750	2.5450	1.2750	2.8000	0.5150	3.9370	0.0787	0.1772	77559	310236	5.65
GEGZ 69 HS/K	2.7500	4.7500	2.7900	1.4050	3.0600	0.5780	4.3110	0.0787	0.1772	94420	377679	7.55
GEGZ 76 HS/K	3.0000	5.1250	3.0220	1.5450	3.3400	0.6560	4.6850	0.0787	0.1772	112404	449618	9.70
GEGZ 82 HS/K	3.2500	5.5000	3.2643	1.6750	3.6000	0.7030	5.0394	0.0787	0.1772	131513	526053	12.23
GEGZ 88 HS/K	3.5000	5.8750	3.5600	1.8050	3.8600	0.7650	5.3937	0.0787	0.1772	151746	606984	15.09
GEGZ 95 HS/K	3.7500	6.2500	3.7380	1.9350	4.1200	0.7810	5.7480	0.0787	0.1772	174227	696908	18.39
GEGZ 101 HS/K	4.0000	7.0000	4.2250	2.1950	4.6400	0.8750	6.4764	0.0787	0.1772	224809	89924	22.00
GEGZ 114 HS/K	4.5000	7.7500	4.6900	2.4550	5.1600	1.0000	7.2047	0.0787	0.1772	276515	1106060	32.74
GEGE139 HS/K	5.5000	8.7500	4.9500	2.6150	5.4800	1.3700	8.1496	0.0787	0.1772	332717	1330869	47.94

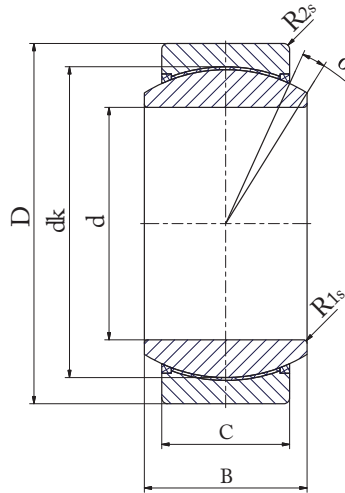


Sliding contact surface:
Steel/Steel



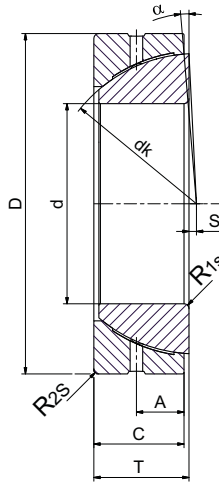
RBL Part No.	DIMENSIONS (INCH)									load ratings lbf		Weight lbs	
	d	D	B	C	dk		R _{1s}	R _{2s}	α	dyn.	stat.		
					max	min	min	≈	C	C ₀			
GEWZ 12 ES	0.5000	0.8750	0.7500	0.3750	0.6250	0.7087	0.0059	0.0236	5	2923	9217	0.05	
GEWZ 15 ES	0.6250	1.0629	0.9370	0.4690	0.7800	0.9055	0.0059	0.0236	5	4946	14613	0.08	
GEWZ 19 ES	GEWZ 19 ES 2RS	0.7500	1.2500	1.1250	0.5620	0.9200	1.0827	0.0118	0.0236	5	6969	21357	0.14
GEWZ 22 ES	GEWZ 22 ES 2RS	0.8750	1.4375	1.3120	0.6560	1.0700	1.2598	0.0118	0.0236	5	9442	28551	0.22
GEWZ 25 ES	GEWZ 25 ES 2RS	1.0000	1.6250	1.5000	0.7500	1.2204	1.4370	0.0118	0.0236	5	12589	37318	0.31
GEWZ 31 ES	GEWZ 31 ES 2RS	1.2500	2.0000	1.8750	0.9370	1.5250	1.7913	0.0236	0.0236	5	19334	58450	0.60
GEWZ 34 ES	GEWZ 34 ES 2RS	1.3750	2.1875	2.0620	1.0310	1.6700	1.9291	0.0236	0.0394	5	22931	69691	0.82
GEWZ 38 ES	GEWZ 38 ES 2RS	1.5000	2.4375	2.2500	1.1250	1.8500	2.1535	0.0236	0.0394	5	28101	84303	1.09
GEWZ 44 ES	GEWZ 44 ES 2RS	1.7500	2.8125	2.6250	1.3120	2.1650	2.5157	0.0236	0.0394	5	38218	114653	1.68
GEWZ 50 ES	GEWZ 50 ES 2RS	2.0000	3.1875	3.0000	1.5000	2.4600	2.8740	0.0236	0.0394	5	50357	150622	2.44
GEWZ 57 ES	GEWZ 57 ES 2RS	2.2500	3.5625	3.3750	1.6870	2.7600	3.2283	0.0236	0.0394	5	62946	191088	3.45
GEWZ 63 ES	GEWZ 63 ES 2RS	2.5000	3.9375	3.7500	1.8750	3.0600	3.6220	0.0394	0.0394	5	79807	238297	4.73
GEWZ 69 ES	GEWZ 69 ES 2RS	2.7500	4.4380	4.1250	2.0620	3.3800	3.9370	0.0394	0.0394	5	93296	281011	6.38
GEWZ 76 ES	GEWZ 76 ES 2RS	3.0000	4.7500	4.5000	2.2500	3.6750	4.3110	0.0394	0.0394	5	112404	337213	7.90
GEWZ 82 ES	GEWZ 82 ES 2RS	3.2500	5.1250	4.8750	2.4370	3.9850	4.6850	0.0394	0.0394	5	131513	395664	10.32
GEWZ 88 ES	GEWZ 88 ES 2RS	3.5000	5.5000	5.2500	2.6250	4.3000	5.0394	0.0394	0.0394	5	152870	458610	12.89
GEWZ 95 ES	GEWZ 95 ES 2RS	3.7500	5.8750	5.6250	2.8120	4.5900	5.3937	0.0394	0.0394	5	175351	530549	15.64
GEWZ 101 ES	GEWZ 101 ES 2RS	4.0000	6.2500	6.0000	3.0000	4.9050	5.7480	0.0394	0.0394	5	202328	595744	18.83
GEWZ 114 ES	GEWZ 114 ES 2RS	4.5000	7.0000	6.7500	3.3750	5.5250	6.4764	0.0394	0.0394	5	251786	764350	26.93
GEWZ 127 ES	GEWZ 127 ES 2RS	5.0000	7.7500	7.5000	3.7500	6.1301	7.2047	0.0394	0.0394	5	314732	932957	36.59
GEWZ 152 ES	GEWZ 152 ES 2RS	6.0000	8.7500	8.2500	4.1250	7.0200	8.1496	0.0394	0.0394	5	388919	1169006	45.54

**Sliding contact surface:
Steel/PTFE fabric**



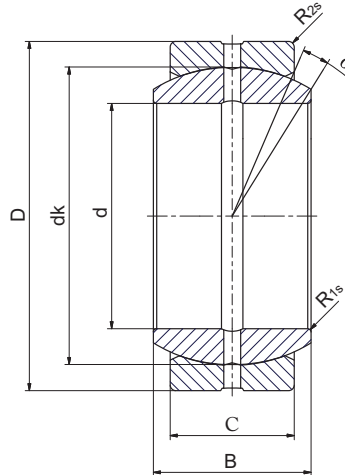
RBL Part No.	DIMENSIONS (INCH)								load ratings lbf		weight lbs
	d	B	C	dk	R _{1s} min	R _{2s} min	α ≈	dyn. C	stat. C ₀		
GEZ 19 ET 2RS	0.7500	1.2500	0.6560	0.5620	1.0827	0.0118	0.0236	6	11240	26303	0.1
GEZ 22 ET 2RS	0.8750	1.4375	0.7650	0.6560	1.2598	0.0118	0.0236	6	15512	35969	0.2
GEZ 25 ET 2RS	1.0000	1.6250	0.8750	0.7500	1.4370	0.0118	0.0236	6	23380	56202	0.3
GEZ 31 ET 2RS	1.2500	2.0000	1.0930	0.9370	1.7913	0.0236	0.0236	6	35969	87675	0.5
GEZ 34 ET 2RS	1.3750	2.1875	1.1870	1.0310	1.9291	0.0236	0.0394	6	42714	103412	0.8
GEZ 38 ET 2RS	1.5000	2.4375	1.3120	1.1250	2.1535	0.0236	0.0394	6	52830	125893	0.9
GEZ 44 ET 2RS	1.7500	2.8125	1.5310	1.3120	2.5157	0.0236	0.0394	6	71939	171979	1.4
GEZ 50 ET 2RS	2.0000	3.1875	1.7500	1.5000	2.8740	0.0236	0.0394	6	93296	224809	2
GEZ 57 ET 2RS	2.2500	3.5625	1.9690	1.6870	3.2283	0.0236	0.0394	6	118025	283259	2.9
GEZ 63 ET 2RS	2.5000	3.9375	2.1870	1.8750	3.6220	0.0394	0.0394	6	147250	352950	4.1
GEZ 69 ET 2RS	2.7500	4.3750	2.4060	2.0620	3.9370	0.0394	0.0394	6	176475	422641	5.3
GEZ 76 ET 2RS	3.0000	4.7500	2.6250	2.2500	4.3110	0.0394	0.0394	6	210196	505820	6.8
GEZ 82 ET 2RS	3.2500	5.1250	2.8440	2.4370	4.6850	0.0394	0.0394	6	247290	595744	8.4
GEZ 88 ET 2RS	3.5000	5.5000	3.0620	2.6250	5.0394	0.0394	0.0394	6	287755	690163	10.6
GEZ 95 ET 2RS	3.7500	5.8750	3.2810	2.8120	5.3937	0.0394	0.0394	6	328221	791327	12.8
GEZ 101 ET 2RS	4.0000	6.2500	3.5000	3.0000	5.7480	0.0394	0.0394	6	373183	899236	15.4
GEZ 107 ET 2RS	4.2500	6.6250	3.7190	3.1870	6.1024	0.0394	0.0394	6	422641	1013888	18.5
GEZ 114 ET 2RS	4.5000	7.0000	3.9375	3.3750	6.4764	0.0394	0.0394	6	474347	1139781	21.6
GEZ 120 ET 2RS	4.7500	7.3750	4.1560	3.5620	6.8307	0.0394	0.0394	6	528301	1270170	25.3
GEZ 127 ET 2RS	5.0000	7.7500	4.3750	3.7500	7.2047	0.0394	0.0394	6	586751	1409552	29.7
GEZ 152 ET 2RS	6.0000	8.7500	4.7500	4.1250	8.1496	0.0394	0.0394	5	730629	1753509	38.5

Sliding contact surface:
Steel/Steel



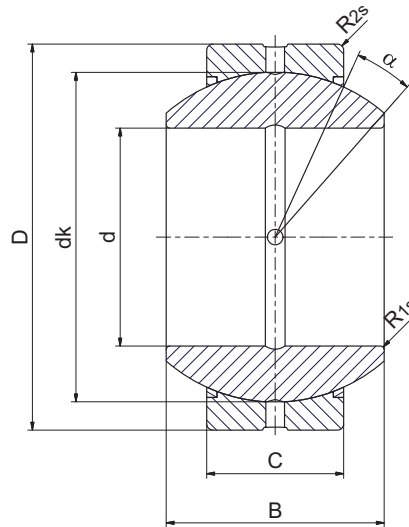
RBL Part No.	DIMENSIONS (MM)										Load ratings lbf		Weight
	d	D	B	C	T	dk	S	A	R _{1s} ,R _{2s}	α	dyn.	stat.	lbs
									max	≈	C	C ₀	
GACZ 12 S	0.5000	0.8750	0.2701	0.1902	0.3000	0.7189	0.0512	0.0941	0.0201	7	1349	4047	0.03
GACZ 15 S	0.6250	1.0625	0.3402	0.2500	0.3701	0.8988	0.0583	0.1091	0.0299	6	2248	6969	0.06
GACZ 19 S	0.7500	1.2500	0.4098	0.3098	0.4402	1.0799	0.0705	0.1252	0.0394	6	3597	10566	0.08
GACZ 22 S	0.8750	1.4375	0.4799	0.3799	0.5201	1.2579	0.0795	0.1720	0.0787	5.5	4946	14837	0.11
GACZ 25 S	1.0000	1.6250	0.5500	0.4402	0.6000	1.4370	0.1000	0.2031	0.0787	6	6519	19558	0.19
GACZ 31 S	1.2500	2.0000	0.7000	0.5500	0.7402	1.7949	0.1323	0.2339	0.0787	6	10566	31923	0.35
GACZ 34 S	1.3750	2.1875	0.7701	0.6000	0.8402	1.9370	0.1453	0.2811	0.1000	4	11915	35745	0.47
GACZ 38 S	1.5000	2.4375	0.8402	0.6598	0.9098	2.1555	0.1547	0.3118	0.1000	5.5	14837	44287	0.66
GACZ 44 S	1.7500	2.8125	0.9799	0.7902	1.0701	2.5150	0.1858	0.3280	0.1000	6	20458	61373	1.01
GACZ 50 S	2.0000	3.1875	1.1299	0.5264	1.2299	2.8748	0.2169	0.3748	0.1402	5.5	27427	82055	1.48
GACZ 57 S	2.2500	3.5625	1.2701	1.0500	1.3902	3.2350	0.2433	0.4531	0.1402	5.5	34845	104761	2.09
GACZ 63 S	2.5000	3.9375	1.4201	1.1799	1.5402	3.5902	0.2673	0.5000	0.1402	5	44063	132412	2.49
GACZ 69 S	2.7500	4.3750	1.5598	1.2748	1.7000	3.9500	0.2937	0.5150	0.1811	5	51931	156017	3.85
GACZ 76 S	3.0000	4.7500	1.7098	1.4051	1.8598	4.3118	0.3217	0.5780	0.1811	5	62722	188390	5.02
GACZ 82 S	3.2500	5.1250	1.8598	1.5449	2.0299	4.6748	0.3559	0.6559	0.1811	5	74637	223685	6.36
GACZ 88 S	3.5000	5.5000	2.0000	1.6748	2.1799	5.0402	0.3602	0.7031	0.1811	5	87451	262352	7.85
GACZ 95 S	3.7500	5.8750	2.1500	1.8051	2.3402	5.3902	0.3976	0.7650	0.1811	4.5	100939	303042	9.57
GACZ 101 S	4.0000	6.2500	2.3000	1.9350	2.5000	5.7500	0.4094	0.7811	0.1811	4.5	115777	347330	11.57
GACZ 114 S	4.5000	7.0000	2.5902	2.1949	2.8000	6.4748	0.4882	0.8748	0.1811	4.5	149048	447370	17.07
GACZ 127 S	5.0000	7.7500	2.8799	2.4551	3.1299	7.1902	0.5472	1.0000	0.1811	4.5	183894	551906	24.35
GACZ 152 S	6.0000	8.7500	3.1000	2.6150	3.3748	8.1559	0.6339	1.3701	0.1811	4.5	221437	664310	38.21

**Sliding contact surface:
Steel/Steel**



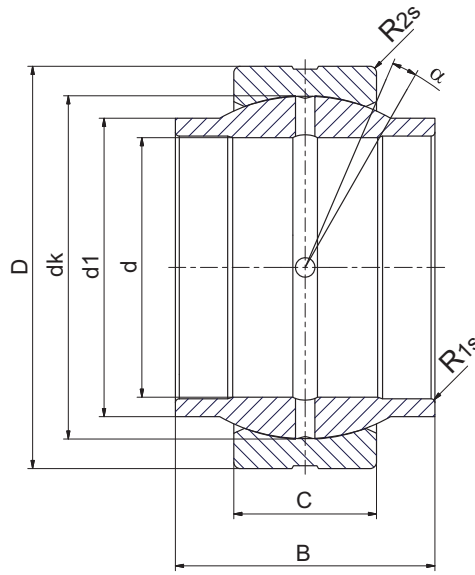
RBL Part No.	DIMENSIONS (MM)								load ratings kN		weight kg	
	d	D	B	C	dk	R1s min	R2s min	α °	dyn. C	stat. Co		
GE 5E	5	14	6	4	10	0.3	0.3	13	3.4	17	0.005	
GE 6E	6	14	6	4	10	0.3	0.3	13	3.4	17	0.004	
GE 8E	8	16	8	5	13	0.3	0.3	15	5.5	27.5	0.007	
GE 10E	10	19	9	6	16	0.3	0.3	12	8.15	40.5	0.011	
GE 12E	12	22	10	7	18	0.3	0.3	11	10.8	54	0.016	
GE 15 ES	GE 15 ES 2RS	15	26	12	9	22	0.3	0.3	8	17	85	0.025
GE 16 ES	GE 16 ES 2RS	16	30	14	10	25	0.3	0.3	10	21.2	106	0.041
GE 17 ES	GE 17 ES 2RS	17	30	14	10	25	0.3	0.3	10	21.2	106	0.041
GE 20 ES	GE 20 ES 2RS	20	35	16	12	29	0.6	0.3	9	30	146	0.061
GE 25 ES	GE 25 ES 2RS	25	42	20	16	35.5	0.6	0.6	7	48	240	0.11
GE 30 ES	GE 30 ES 2RS	30	47	22	18	40.7	0.6	0.6	6	62	310	0.14
GE 35 ES	GE 35 ES 2RS	35	55	25	20	47	0.6	1	6	80	400	0.22
GE 40 ES	GE 40 ES 2RS	40	62	28	22	53	0.6	1	7	100	500	0.3
GE 45 ES	GE 45 ES 2RS	45	68	32	25	60	0.6	1	7	127	640	0.41
GE 50 ES	GE 50 ES 2RS	50	75	35	28	66	0.6	1	6	156	780	0.53
GE 55 ES	GE 55 ES 2RS	55	85	40	32	74	0.6	1	7	200	1000	0.94
GE 60 ES	GE 60 ES 2RS	60	90	44	36	80	1	1	6	245	1220	1
GE 70 ES	GE 70 ES 2RS	70	105	49	40	92	1	1	6	315	1560	1.5
GE 80 ES	GE 80 ES 2RS	80	120	55	45	105	1	1	6	400	2000	2.2
GE 90 ES	GE 90 ES 2RS	90	130	60	50	115	1	1	5	490	2450	2.7
GE 100 ES	GE 100 ES 2RS	100	150	70	55	130	1	1	7	610	3050	4.3
GE 110 ES	GE 110 ES 2RS	110	160	70	55	140	1	1	6	655	3250	4.7
GE 120 ES	GE 120 ES 2RS	120	180	85	70	160	1	1	6	950	4750	8
GE 140 ES	GE 140 ES 2RS	140	210	90	70	180	1	1	7	1080	5400	11
GE 160 ES	GE 160 ES 2RS	160	230	105	80	200	1	1	8	1360	6800	14
GE 180 ES	GE 180 ES 2RS	180	260	105	80	225	1	1	6	1530	7650	18.5
GE 200 ES	GE 200 ES 2RS	200	290	130	100	250	1.1	1.1	7	2120	10600	28
GE 220 ES	GE 220 ES 2RS	220	320	135	100	275	1.1	1.1	8	2320	11600	35.51
GE 240 ES	GE 240 ES 2RS	240	340	140	100	300	1.1	1.1	8	2550	12700	39.91
GE 260 ES	GE 260 ES 2RS	260	370	150	110	325	1.1	1.1	7	3030	15190	51.54
GE 280 ES	GE 280 ES 2RS	280	400	155	120	350	1.1	1.1	6	3570	17850	65.06
GE 300 ES	GE 300 ES 2RS	300	430	165	120	375	1.1	1.1	7	3800	19100	78.07

Sliding contact surface:
Steel/Steel



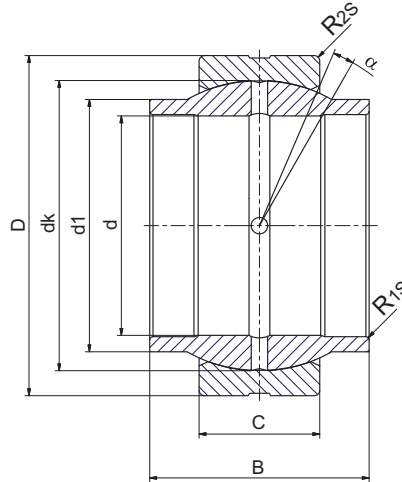
RBL Part No.	DIMENSIONS (MM)								load ratings kN		weight kg	
	d	D	B	C	dk	R1s min	R2s min	α ≈	dyn. C	stat. C ₀		
GEG 8E	8	19	11	6	16	0.3	0.3	21	8.15	40.5	0.014	
GEG 10E	10	22	12	7	18	0.3	0.3	18	10.8	54	0.02	
GEG 12E	12	26	15	9	22	0.3	0.3	18	17	85	0.034	
GEG 15 ES	GEG 15 ES 2RS	15	30	16	10	25	0.3	0.3	16	21.2	106	0.046
GEG 17 ES	GEG 17 ES 2RS	17	35	20	12	29	0.3	0.3	19	30	146	0.077
GEG 20 ES	GEG 20 ES 2RS	20	42	25	16	35.5	0.6	0.6	17	48	240	0.15
GEG 25 ES	GEG 20 ES 2RS	25	47	28	18	40.7	0.6	0.6	17	62	310	0.19
GEG 30 ES	GEG 30 ES 2RS	30	55	32	20	47	0.6	1	17	80	400	0.29
GEG 35 ES	GEG 35 ES 2RS	35	62	35	22	53	0.6	1	16	100	500	0.38
GEG 40 ES	GEG 40 ES 2RS	40	68	40	25	60	0.6	1	17	127	640	0.54
GEG 45 ES	GEG 45 ES 2RS	45	75	43	28	66	0.6	1	15	156	780	0.68
GEG 50 ES	GEG 50 ES 2RS	50	90	56	36	80	0.6	1	17	245	1220	1.4
GEG 60 ES	GEG 60 ES 2RS	60	105	63	40	92	1	1	17	315	1560	2
GEG 70 ES	GEG 70 ES 2RS	70	120	70	45	105	1	1	16	400	2000	2.9
GEG 80 ES	GEG 80 ES 2RS	80	130	75	50	115	1	1	14	490	2450	3.5
GEG 90 ES	GEG 90 ES 2RS	90	150	85	55	130	1	1	15	610	3050	5.4
GEG 100 ES	GEG 100 ES 2RS	100	160	85	55	140	1	1	14	655	3250	5.9
GEG 110 ES	GEG 110 ES 2RS	110	180	100	70	160	1	1	12	950	4750	9.6
GEG 120 ES	GEG 120 ES 2RS	120	210	115	70	180	1	1	16	1080	5400	15.1
GEG 140 ES	GEG 140 ES 2RS	140	230	130	80	200	1	1	16	1360	6800	19.01
GEG 160 ES	GEG 160 ES 2RS	160	260	135	80	225	1	1.1	16	1530	7650	24.7
GEG 180 ES	GEG 180 ES 2RS	180	290	155	100	250	1.1	1.1	14	2120	10600	35.4
GEG 200 ES	GEG 200 ES 2RS	200	320	165	100	270	1.1	1.1	15	2320	11600	45.28
GEG 220 ES	GEG 220 ES 2RS	220	340	175	100	300	1.1	1.1	16	2550	12700	51.12
GEG 240 ES	GEG 240 ES 2RS	240	370	190	110	325	1.1	1.1	15	3030	15190	65.12
GEG 260 ES	GEG 260 ES 2RS	260	400	205	120	350	1.1	1.1	15	3570	17850	82.44
GEG 280 ES	GEG 280 ES 2RS	280	430	210	120	375	1.1	1.1	15	3800	19100	97.21

**Sliding contact surface:
Steel/Steel**



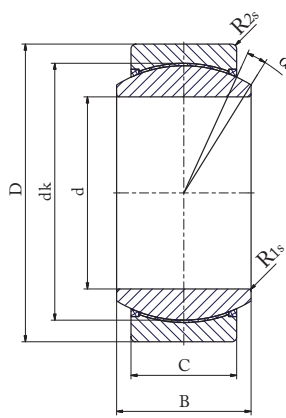
RBL Part No.	DIMENSIONS (MM)									load ratings kN		weight kg
	d	d2	D	B	C	dk	R _{1s} min	R _{2s} min	α ≈	dyn. C	stat. C ₀	
GE 17 HO 2RS	17	21	30	21	10	25	0.2	0.3	3	21.2	106	0.04
GE 20 HO 2RS	20	24	35	24	12	29	0.2	0.3	3	30	146	0.069
GE 25 HO 2RS	25	29	42	29	16	35.5	0.2	0.6	3	48	240	0.12
GE 30 HO 2RS	30	34	47	30	18	40.7	0.2	0.6	3	62	310	0.15
GE 35 HO 2RS	35	40	55	35	20	47	0.3	1	3	80	400	0.26
GE 40 HO 2RS	40	45	62	38	22	53	0.3	1	3	100	500	0.32
GE 45 HO 2RS	45	52	68	40	25	60	0.3	1	3	127	640	0.43
GE 50 HO 2RS	50	57	75	43	28	66	0.3	1	3	156	780	0.55
GE 60 HO 2RS	60	68	90	54	36	80	0.3	1	3	245	1220	1.1
GE 70 HO 2RS	70	78	105	65	40	92	0.3	1	3	315	1560	1.6
GE 80 HO 2RS	80	90	120	74	45	105	0.3	1	3	400	2000	2.5

**Sliding contact surface:
Steel/Steel**

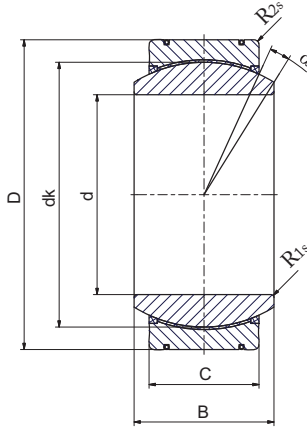


RBL Part No.	DIMENSIONS (MM)									load ratings kN		weight kg
	d	d2	D	B	C	dk	R _{1s} min	R _{2s} min	α ≈	dyn. C	stat. C ₀	
GE 12 LO	12	15.5	22	12	7	18	0.3	0.3	4	10	54	0.022
GE 16 LO	16	20	28	16	9	23	0.3	0.3	4	17.6	88	0.035
GE 20 LO	20	25	35	20	12	29	0.3	0.3	4	30	146	0.07
GE 25 LO	25	30.5	42	25	16	35.5	0.6	0.6	4	48	240	0.12
GE 30 LO	30	34	47	30	18	40.7	0.6	0.6	4	62	310	0.168
GE 32 LO	32	37	52	32	18	44	0.6	1	4	67	335	0.2
GE 35 LO	35	40	55	35	20	47	0.6	1	4	79	399	0.253
GE 40 LO	40	46	62	40	22	53	0.6	1	4	100	500	0.34
GE 45 LO	45	52	68	45	25	60	0.6	1	4	127	637	0.481
GE 50 LO	50	57	75	50	28	66	0.6	1	4	156	780	0.56
GE 60 LO	60	68	90	60	36	80	1	1	4	245	1220	1.15
GE 63 LO	63	71.5	95	63	36	83	1	1	4	255	1270	1.2
GE 70 LO	70	78	105	70	40	92	1	1	4	315	1560	1.7
GE 80 LO	80	91	120	80	45	105	1	1	4	400	2000	2.4
GE 90 LO	90	99	130	90	50	115	1	1	4	488	2440	3.2
GE 100 LO	100	113	150	100	55	130	1	1	4	607	3030	4.8
GE 110 LO	110	124	160	110	55	140	1	1	4	654	3270	5.78
GE 125 LO	125	138	180	125	70	160	1	1	4	950	4750	8.49
GE 160 LO	160	177	230	160	80	200	1	1	4	1360	6800	16.5
GE 200 LO	200	221	290	200	100	250	1.1	1.1	4	2120	10600	32.1
GE 250 LO	250	317	400	250	120	350	1.1	1.1	4	3750	17800	99.1
GE 320 LO	320	405	520	320	160	450	1.1	1.1	4	6200	30500	225

**Sliding contact surface:
Steel/PTFE fabric**



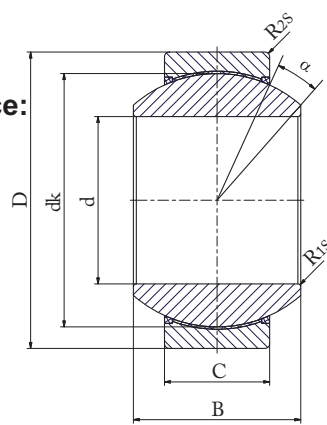
GE..UK 2RS



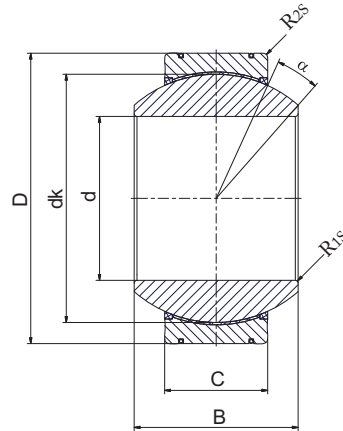
GE..UT 2RS

RBL Part No.	DIMENSIONS (MM)									load ratings kN		weight kg
	d	D	B	C	d1 min	dk	R _{1s} min	R _{2s} min	α ≈	dyn. C	stat. C ₀	
GE15 UK 2RS	15	26	12	9	18	22	0.3	0.3	9	26	52	0.035
GE17 UK 2RS	17	30	14	10	20	25	0.3	0.3	10	48.7	81.2	0.041
GE20 UK 2RS	20	35	16	12	24	29	0.3	0.3	9	67.5	112	0.066
GE25 UK 2RS	25	42	20	16	29	35.5	0.6	0.6	7	127	212	0.119
GE30 UK 2RS	30	47	22	18	34	40.7	0.6	0.6	6	165	275	0.153
GE35 UK 2RS	35	55	25	20	39	47	0.6	1	6	210	350	0.233
GE40 UK 2RS	40	62	28	22	45	53	0.6	1	7	277	462	0.306
GE45 UK 2RS	45	68	32	25	50	60	0.6	1	7	360	600	0.427
GE50 UK 2RS	50	75	35	28	55	66	0.6	1	6	442	737	0.546
GE60 UK 2RS	60	90	44	36	66	80	1	1	6	690	1150	1.04
GE70 UK 2RS	70	105	49	40	77	92	1	1	6	885	1475	1.55
GE80 UK 2RS	80	120	55	45	88	105	1	1	6	1125	1875	2.31
GE90 UK 2RS	90	130	60	50	98	115	1	1	5	1283	2300	2.75
GE100 UK 2RS	100	150	70	55	109	130	1	1	7	1717	2862	4.45
GE110 UK 2RS	110	160	70	55	121	140	1	1	6	1845	3075	4.82
GE120 UK 2RS	120	180	85	70	135	160	1	1	6	2685	4475	8.05
GE140 UK 2RS	140	210	90	70	155	180	1	1	7	3015	5025	11.02
GE160 UT 2RS	160	230	105	80	170	200	1	1	8	3840	6400	14.01
GE180 UT 2RS	180	260	105	80	199	225	1.1	1.1	6	4320	7200	18.65
GE200 UT 2RS	200	290	130	100	213	250	1.1	1.1	7	6000	10000	28.03
GE220 UT 2RS	220	320	135	100	239	275	1.1	1.1	8	6600	11000	35.51
GE240 UT 2RS	240	340	140	100	265	300	1.1	1.1	8	7200	12000	39.91
GE260 UT 2RS	260	370	150	110	288	325	1.1	1.1	7	8550	14250	51.54
GE280 UT 2RS	280	400	155	120	313	350	1.1	1.1	6	10050	16750	65.06
GE300 UT 2RS	300	430	165	120	336	375	1.1	1.1	7	10800	18000	78.07

Sliding contact surface:
Steel/PTFE fabric



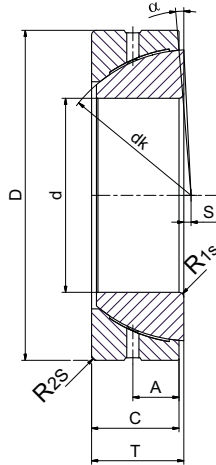
GE..FW 2RS



GE..FT 2RS

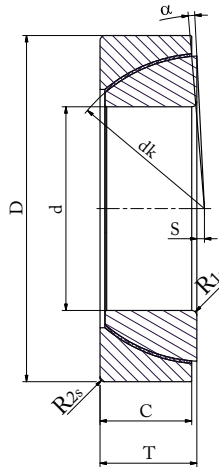
RBL Part No.	DIMENSIONS (MM)									load ratings kN		weight kg
	d	D	B	C	dk	R1s min	R2s min	α ≈	dyn. C	stat. C ₀		
GE 15 FW 2RS	15	30	16	10	25	0.3	0.3	16	22.4	56	0.046	
GE 17 FW 2RS	17	35	20	12	29	0.3	0.3	19	31.5	78	0.078	
GE 20 FW 2RS	20	42	25	16	35.5	0.6	0.6	17	51	127	0.15	
GE 25 FW 2RS	25	47	28	18	40.7	0.6	0.6	17	65.5	166	0.19	
GE 30 FW 2RS	30	55	32	20	47	0.6	1	17	210	350	0.29	
GE 35 FW 2RS	35	62	35	22	53	0.6	1	16	277	462	0.39	
GE 40 FW 2RS	40	68	40	25	60	0.6	1	17	360	600	0.52	
GE 45 FW 2RS	45	75	43	28	66	0.6	1	15	442	737	0.68	
GE 50 FW 2RS	50	90	56	36	80	0.6	1	17	690	1150	1.4	
GE 60 FW 2RS	60	105	63	40	92	1	1	17	885	1475	2	
GE 70 FW 2RS	70	120	70	45	105	1	1	16	1125	1875	2.9	
GE 80 FW 2RS	80	130	75	50	115	1	1	14	1380	2300	3.5	
GE 90 FW 2RS	90	150	85	55	130	1	1	15	1717	2862	5.4	
GE 100 FW 2RS	100	160	85	55	140	1	1	14	1845	3075	6	
GE 110 FW 2RS	110	180	100	70	160	1	1	12	2685	4475	9.7	
GE 120 FW 2RS	120	210	115	70	180	1	1	16	3015	5025	14	
GE 140 FW 2RS	140	230	130	80	200	1	1	16	3840	6400	19	
GE 160 FT 2RS	160	260	135	80	225	1.1	1.1	16	4320	7200	24.7	
GE 180 FT 2RS	180	290	155	100	250	1.1	1.1	14	6000	10000	35.9	
GE 200 FT 2RS	200	320	165	100	275	1.1	1.1	15	6600	11000	45.3	
GE 220 FT 2RS	220	340	175	100	300	1.1	1.1	16	7200	12000	51.1	
GE 240 FT 2RS	240	370	190	110	325	1.1	1.1	15	8550	14250	65.1	
GE 260 FT 2RS	260	400	205	120	350	1.1	1.1	15	10050	16750	82.4	
GE 280 FT 2RS	280	430	210	120	375	1.1	1.1	15	10800	18000	97.2	

**Sliding contact surface:
Steel/Steel**



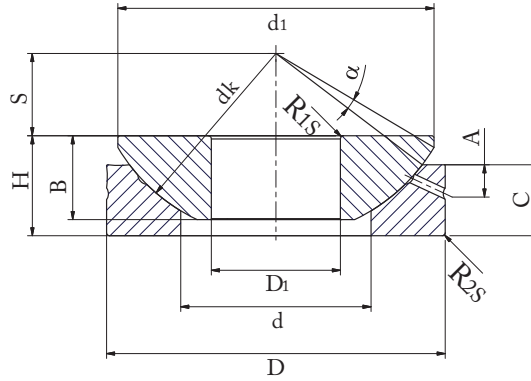
RBL Part No.	DIMENSIONS (MM)												load ratings kN		weight kg
	d	D	T	dk	d1	B	C	S	A	R1s min	R2s min	α ≈	dyn. C	stat. C ₀	
GE 25 SX	25	47	15	42.5	31.4	14	14	1	7.5	0.6	0.2	7.5	47.5	236	0.13
GE 28 SX	28	52	16	47	35.7	15	15	1	8	1	0.3	8	60	300	0.17
GE 30 SX	30	55	17	50	36.1	16	16	2	8.5	1	0.3	8.5	63	315	0.21
GE 32 SX	32	58	17	52	37.5	17	16	2	8.5	1	0.3	8.5	71	354	0.24
GE 35 SX	35	62	18	56	42.4	17	17	2	9	1	0.3	9	76.5	390	0.27
GE 40 SX	40	68	19	60	46.8	18	18	1.5	9.5	1	0.3	9.5	90	450	0.32
GE 45 SX	45	75	20	66	52.9	19	19	1.5	10	1	0.3	10	106	530	0.41
GE 50 SX	50	80	20	74	59.1	19	19	4	10	1	0.3	10	118	585	0.45
GE 55 SX	55	90	23	80	62	22	22	4	11.5	1.5	0.6	11.5	146	735	1.67
GE 60 SX	60	95	23	86	68.1	22	22	5	11.5	1.5	0.6	11.5	160	800	0.72
GE 65 SX	65	100	23	92	75.6	22	22	5	11.5	1.5	0.6	11.5	173	865	0.76
GE 70 SX	70	110	25	102	82.2	24	24	7	12.5	1.5	0.6	12.5	208	1040	1
GE 75 SX	75	115	25	107	84.4	25	24	7.9	12.5	1.5	0.6	12.5	220	1129	1.1
GE 80 SX	80	125	29	115	90.5	27	27	10	14.5	1.5	0.6	14.5	250	1250	1.5
GE 85 SX	85	130	29	122	94.8	29	26.5	9.4	14.5	1.5	0.6	14.5	284	1422	1.6
GE 90 SX	90	140	32	130	103.3	30	30	11	16	2	0.6	16	320	1600	2.1
GE 95 SX	95	145	32	135	104.4	32	29.5	10.8	16	2	0.6	16	335	1750	2.2
GE 100 SX	100	150	32	140	114.3	30	30	12	16	2	0.6	16	345	1760	2.3
GE 105 SX	105	160	35	148	113.8	35	32.5	12.3	17.5	2	0.6	17.5	423	2116	2.9
GE 110 SX	110	170	38	160	125.8	36	36	15	19	2.5	0.6	19	475	2360	3.6
GE 120 SX	120	180	38	170	135.4	36	36	17	19	2.5	0.6	19	510	2550	3.9
GE 130 SX	130	200	45	190	148	42	42	20	22.5	2.5	0.6	22.5	640	3200	5.9
GE 140 SX	140	210	45	200	160.6	42	42	20	22.5	2.5	0.6	22.5	680	3450	6.3
GE 150 SX	150	225	48	213	170.9	45	45	21	24	3	1	24	780	3900	7.7
GE 160 SX	160	240	51	225	181.4	48	48	21	25.5	3	1	25.5	900	4500	9.4
GE 170 SX	170	260	57	250	194.3	54	54	27	28.5	3	1	28.5	1100	5500	12
GE 180 SX	180	280	64	260	205.5	61	61	21	32	3	1	32	1320	6700	17
GE 190 SX	190	290	64	275	211.8	61	61	29	32	3	1	32	1370	6950	18
GE 200 SX	200	310	70	290	229.2	66	66	26	35	3	1	35	1560	7800	22.5

Sliding contact surface:
Steel/PTFE fabric



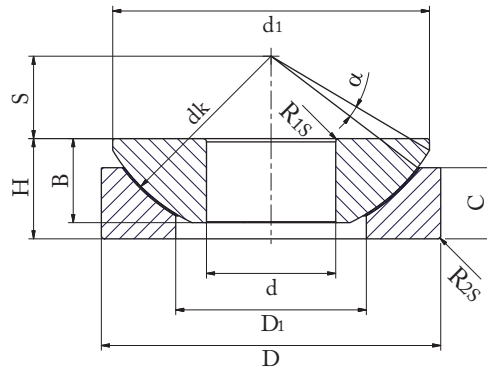
RBL Part No.	DIMENSIONS (MM)										load ratings kN		weight kg
	d	D	T	dk	d1	B	C	S	R1s min	R2s min	dyn. C	stat. C ₀	
GE 25 SW	25	47	15	42.5	31.4	14	14	1	0.6	0.2	71	140	0.14
GE 28 SW	28	52	16	47	35.7	15	15	1	1	0.3	90	180	0.18
GE 30 SW	30	55	17	50	36.1	16	16	2	1	0.3	95	190	0.22
GE 32 SW	32	58	17	52	37.5	17	16	2	1	0.3	102	204	0.24
GE 35 SW	35	62	18	56	42.4	17	17	2	1	0.3	116	232	0.28
GE 40 SW	40	68	19	60	46.8	18	18	1.5	1	0.3	134	270	0.34
GE 45 SW	45	75	20	66	52.9	19	19	1.5	1	0.3	160	320	0.43
GE 50 SW	50	80	20	74	59.1	19	19	4	1	0.3	176	355	0.47
GE 55 SW	55	90	23	80	62	22	22	4	1.5	0.6	220	440	0.7
GE 60 SW	60	95	23	86	68.1	22	22	5	1.5	0.6	240	480	0.75
GE 65 SW	65	100	23	92	75.6	22	22	5	1.5	0.6	260	520	0.8
GE 70 SW	70	110	25	102	82.2	24	24	7	1.5	0.6	315	630	1
GE 75 SW	75	115	25	107	84.4	25	25	7.9	1.5	0.6	345	670	1.1
GE 80 SW	80	125	29	115	90.5	27	27	10	1.5	0.6	375	750	1.6
GE 85 SW	85	130	29	122	94.8	29	26.5	9.4	1.5	0.6	425	810	1.7
GE 90 SW	90	140	32	130	103.3	30	30	11	2	0.6	480	965	2.2
GE 95 SW	95	145	32	135	104.4	32	29.5	10.8	2	0.6	500	1000	2.3
GE 100 SW	100	150	32	140	114.3	30	30	12	2	0.6	520	1040	2.4
GE 105 SW	105	160	35	148	113.8	35	32.5	12.3	2	2	565	1250	2.9
GE 110 SW	110	170	38	160	125.8	36	36	15	2.5	0.6	710	1430	3.7
GE 120 SW	120	180	38	170	135.4	36	36	17	2.5	0.6	765	1530	4
GE 130 SW	130	200	45	190	148	42	42	20	2.5	0.6	965	1930	6
GE 140 SW	140	210	45	200	160.6	42	42	20	2.5	0.6	1020	2040	6.4
GE 150 SW	150	225	48	213	170.9	45	45	21	3	1	1180	2360	7.9
GE 160 SW	160	240	51	225	181.4	48	48	21	3	1	1340	2700	9.6
GE 170 SW	170	260	57	250	194.3	54	54	27	3	1	1660	3350	13
GE 180 SW	180	280	65	260	205.5	61	61	21	3	1	2000	4000	17.5
GE 190 SW	190	290	64	275	211.8	61	61	29	3	1	2080	4150	18
GE 200 SW	200	310	70	290	229.2	66	66	26	3	1	2360	4750	23

Sliding contact surface:
Steel/Steel

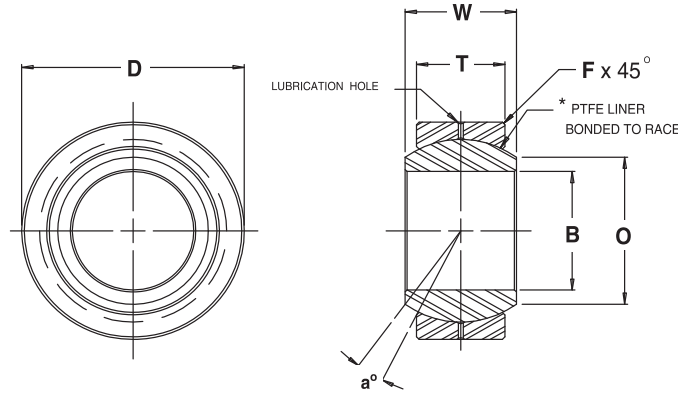


RBL Part No.	DIMENSIONS (MM)											load ratings kN			weight kg		
	d	D	H	dk	d1	d2	d3	B	C	S	A	R1s min	R2s min	α ≈		dyn. C	stat. C ₀
GE 10 AX	10	30	9.5	32	16.5	27.5	21	7.9	6	7	3	0.6	0.2	10	24	120	0.04
GE 12 AX	12	35	13	37	19.5	32	24	9.3	9	8	4	0.6	0.2	9	32.5	163	0.07
GE 15 AX	15	42	15	45	24	38.9	29	10.7	11	10	5	0.6	0.2	7	52	260	0.12
GE 17 AX	17	47	16	50	28	43.4	34	11.5	11.5	11	5	0.6	0.15	6	58.5	300	0.16
GE 20 AX	20	55	20	60	33.5	50	40	14.3	13	12.5	6	1	0.3	6	75	375	0.25
GE 25 AX	25	62	22.5	66	34.5	57.5	45	16	17	14	6	1	0.3	7	129	640	0.38
GE 30 AX	30	75	26	80	44	69	56	18	19.5	17.5	8	1	0.3	6	170	850	0.65
GE 35 AX	35	90	28	98	52	84	66	22	20	22	8	1	0.3	6	260	1290	1
GE 40 AX	40	105	32	114	59	98	78	27	22	24.5	9	1	0.3	6	375	1860	1.6
GE 45 AX	45	120	36.5	130	68	112	89	31	25	27.5	11	1	0.3	6	490	2450	2.4
GE 50 AX	50	130	42.5	140	69	122.5	98	33.5	32	30	10	1	0.3	5	655	3250	3.3
GE 60 AX	60	150	45	160	86	140	108	37	33	35	12.5	1	0.3	7	735	3650	4.5
GE 70 AX	70	160	50	170	95	149.5	121	40	36	35	13.5	1	0.3	6	800	4050	5.5
GE 80 AX	80	180	50	194	108	168	130	42	36	42.5	14.5	1	0.3	6	1040	5200	7
GE 100 AX	100	210	59	220	133	195.5	155	50	42	45	15	1	0.3	7	1200	6000	10.5
GE 120 AX	120	230	64	245	154	214	170	52	45	52.5	16.5	1	0.3	8	1250	6200	13
GE 140 AX	140	260	72	272	176	244	198	61	50	52.5	23	1.5	0.6	6	1630	8150	18
GE 160 AX	160	290	77	310	199	272	213	65	52	65	23	1.5	0.6	7	1900	9500	23
GE 180 AX	180	320	86	335	224	300	240	70	60	67.5	26	1.5	0.6	8	2120	10600	31
GE 200 AX	200	340	87	358	246	321	265	74	60	70	27	1.5	0.6	8	2360	11800	34

Sliding contact surface:
Steel/PTFE fabric



RBL Part No.	DIMENSIONS (MM)														load ratings kN		weight kg
	d	D	H	dk	d1	d2	d3	B	C	S	R _{1s} min	R _{2s} min	α ≈	dyn. C	stat. C ₀		
GE 10 AW	10	30	9.5	32	16.5	27.5	21	7.9	6	7	0.6	0.2	10	36	72	0.04	
GE 12 AW	12	35	13	37	19.5	32	24	9.3	9	8	0.6	0.2	9	49	98	0.07	
GE 15 AW	15	42	15	45	24	38.9	29	10.7	11	10	0.6	0.2	7	78	156	0.12	
GE 17 AW	17	47	16	50	28	43.4	34	11.5	11.5	11	0.6	0.2	6	88	176	0.16	
GE 20 AW	20	55	20	60	33.5	50	40	14.3	13	12.5	1	0.3	6	112	224	0.25	
GE 25 AW	25	62	22.5	66	34.5	57.5	45	16	17	14	1	0.3	7	193	390	0.38	
GE 30 AW	30	75	26	80	44	69	56	18	19.5	17.5	1	0.3	6	255	510	0.65	
GE 35 AW	35	90	28	98	52	84	66	22	20	22	1	0.3	6	390	780	1	
GE 40 AW	40	105	32	114	59	98	78	27	22	24.5	1	0.3	6	560	1120	1.6	
GE 45 AW	45	120	36.5	130	68	112	89	31	25	27.5	1	0.3	6	735	1460	2.4	
GE 50 AW	50	130	42.5	140	69	122.5	98	33.5	32	30	1	0.3	5	980	1960	3.3	
GE 60 AW	60	150	45	160	86	140	108	37	33	35	1	0.3	7	1100	2200	4.5	
GE 70 AW	70	160	50	170	95	149.5	121	40	36	35	1	0.3	6	1200	2400	5.5	
GE 80 AW	80	180	50	194	108	168	130	42	36	42.5	1	0.3	6	1560	3100	7	
GE 100 AW	100	210	59	220	133	195.5	155	50	42	45	1	0.3	7	1800	3600	10.5	
GE 120 AW	120	230	64	245	154	214	170	52	45	52.5	1	0.3	8	1860	3750	13	
GE 140 AW	140	260	72	272	176	244	198	61	50	52.5	1.5	0.6	6	2450	4900	18	
GE 160 AW	160	290	77	310	199	272	213	65	52	65	1.5	0.6	7	2850	5700	23	
GE 180 AW	180	320	86	335	224	300	240	70	60	67.5	1.5	0.6	8	3200	6400	31	
GE 200 AW	200	340	87	358	246	321	265	74	60	70	1.5	0.6	8	3550	7100	34	
GE 220 AW	220	370	97	388	265	350	289	82	67	75	1.5	0.6	7	4400	8800	44.5	
GE 240 AW	240	400	103	420	294	382	314	87	73	77.5	1.5	0.6	6	5200	10400	55	
GE 260 AW	260	430	115	449	317	409	336	95	80	82.5	1.5	0.6	7	5400	10800	69	
GE 280 AW	280	460	110	480	337	445	366	100	85	80	3	1	4	8500	17000	82	
GE 300 AW	300	480	110	490	356	460	388	100	90	80	3	1	3.5	8650	17300	87	
GE 320 AW	320	520	116	540	380	500	405	105	91	95	4	1.1	4	10600	21200	109	
GE 340 AW	340	540	116	550	380	510	432	105	91	95	4	1.1	4	11800	23600	114	
GE 360 AW	360	560	125	575	400	535	452	115	95	95	4	1.1	4	12700	25500	129	



RBL Part No.	B DIA.	D DIA.	W WIDTH	T WIDTH	O DIA.	BALL DIA.	F CHAMF.	a MIS. ANG.	ULT. STATIC RADIAL LOAD (lbs)	APROX. WEIGHT (lbs.)
	+ .0015 - .0005	+ .0000 - .0007	+ .005 - .005	+ .005 - .005	REF.	REF.	REF.	REF.		
COM3	.1900	.5625	.281	.218	.293	.406	.015	11	3,250	.014
COM4	.2500	.6562	.343	.250	.364	.500	.022	13.5	4,950	.022
COM5	.3125	.7500	.375	.281	.419	.562	.032	12	6,475	.030
COM6	.3750	.8125	.406	.312	.516	.656	.032	10	8,400	.038
COM7	.4375	.9062	.437	.343	.530	.687	.032	8	9,453	.047
COM8	.5000	1.0000	.500	.390	.600	.781	.032	9.5	13,250	.065
COM8-101	.5000	1.0000	1.000	.390	.600	.781	.032	9.5	13,250	.065
COM9	.5625	1.0937	.562	.437	.671	.875	.032	9.5	16,630	.086
COM10	.6250	1.1875	.625	.500	.739	.968	.032	8.5	21,280	.110
COM12	.7500	1.4375	.750	.593	.920	1.187	.044	9	31,920	.204
COM12T-3R**	.7500	1.4375	.750	.593	.920	1.187	.044	9	31,920	.204
COM14	.8750	1.5625	.875	.703	.980	1.312	.044	9.5	41,960	.263
COM16	1.0000	1.7500	1.000	.797	1.118	1.500	.044	10	55,200	.386
HCOM16***	1.0000	2.0000	1.000	.781	1.360	1.687	.032	9	70,820	.553
HCOM19***	1.1875	2.3750	1.187	.937	1.610	2.000	.032	8.5	100,730	.895
HCOM20***	1.2500	2.3750	1.187	.937	1.610	2.000	.032	8.5	100,730	.895
HCOM24***	1.5000	2.7500	1.375	1.094	1.860	2.312	.032	8.5	135,950	1.358
HCOM28***	1.7500	3.1250	1.562	1.250	2.110	2.625	.044	8	176,370	1.948
HCOM32***	2.0000	3.5000	1.750	1.375	2.360	2.937	.044	8.5	217,060	2.650

* A trade mark of E.I. Dupont de Nemours & Co., Inc.

** BEARING COMES STANDARD WITH SNAP RING AND TEFLON LINER. CONTACT ENGINEERING FOR FURTHER INFORMATION.

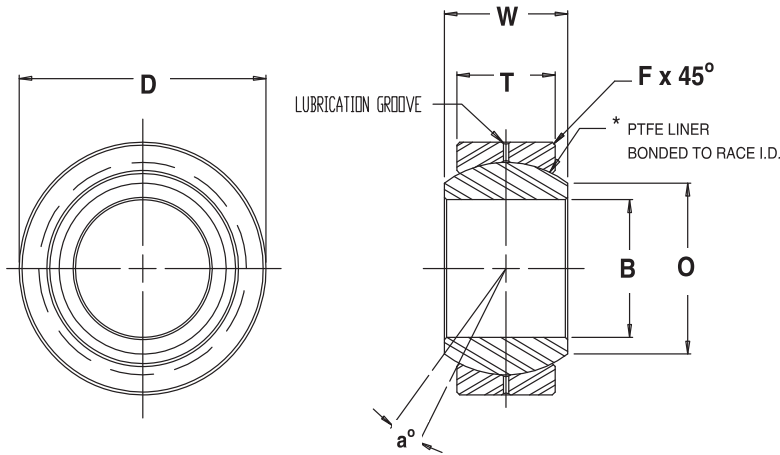
***BORE TOLERANCE: +.0025
-.0005

MATERIALS

BALL	RACE
52100 STEEL	LOW CARBON STEEL
HEAT TREATED	OIL COATED
HARD CHROME PLATED	

NOTES:

- LUBRICATION GROOVES IN I.D. & O.D. OF RACE
- FOR *TEFLON LINER ADD "T" TO SUFFIX.
EXAMPLE: COM12T
(UNITS WITH *TEFLON LINERS HAVE NO LUBRICATION HOLES OR GROOVES IN RACE.)



RBL Part No.	B DIA.	D DIA.	W WIDTH	T WIDTH	O DIA.	BALL DIA.	F CHAMF.	a MIS. ANG.	ULT. STATIC RADIAL LOAD (lbs)	APROX. WEIGHT (lbs.)
	+ .0015 - .0005	+ .0000 - .0005	+ .005 - .005	+ .005 - .005	REF.	REF.	REF.	REF.		
RKS3	.1900	.5625	.281	.218	.293	.406	.015	11	6,480	.014
RKS4	.2500	.6562	.343	.250	.364	.500	.022	13.5	10,000	.022
RKS5	.3125	.7500	.375	.281	.419	.562	.032	12	13,900	.065
RKS6	.3750	.8125	.406	.312	.516	.656	.032	10	18,000	.038
RKS7	.4375	.9062	.437	.343	.530	.687	.032	8	22,300	.047
RKS8	.5000	1.0000	.500	.390	.600	.781	.032	9.5	26,900	.065
RKS9	.5625	1.0937	.562	.437	.671	.875	.032	9.5	36,000	.086
RKS10	.6250	1.1875	.625	.500	.739	.968	.032	8.5	48,000	.110
RKS12	.7500	1.4375	.750	.593	.920	1.187	.044	9	78,000	.204
RKS14	.8750	1.5625	.875	.703	.980	1.312	.044	9.5	103,000	.263
RKS16	1.0000	1.7500	1.000	.797	1.118	1.500	.044	10	125,000	.386

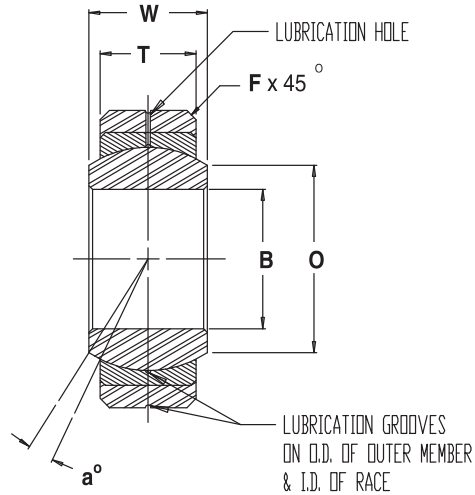
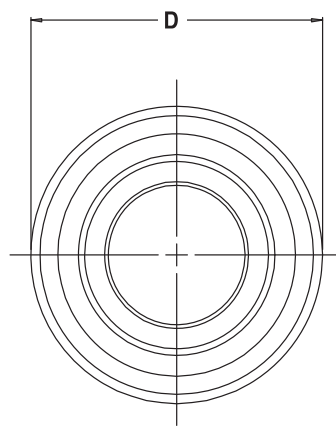
* A trade mark of E.I. Dupont de Nemours & Co., Inc.

MATERIALS

BALL	RACE
52100 STEEL	ALLOY STEEL
HEAT TREATED	HEAT TREATED
HARD CHROME PLATED	OIL COATED

NOTES:

- LUBRICATION GROOVES IN I.D. & O.D. OF RACE.
- FOR *TEFLON LINER ADD "T" TO SUFFIX.
EXAMPLE: RKS8T
(UNITS WITH TEFLON LINERS HAVE NO LUBRICATION HOLES OR GROOVES IN RACE.)

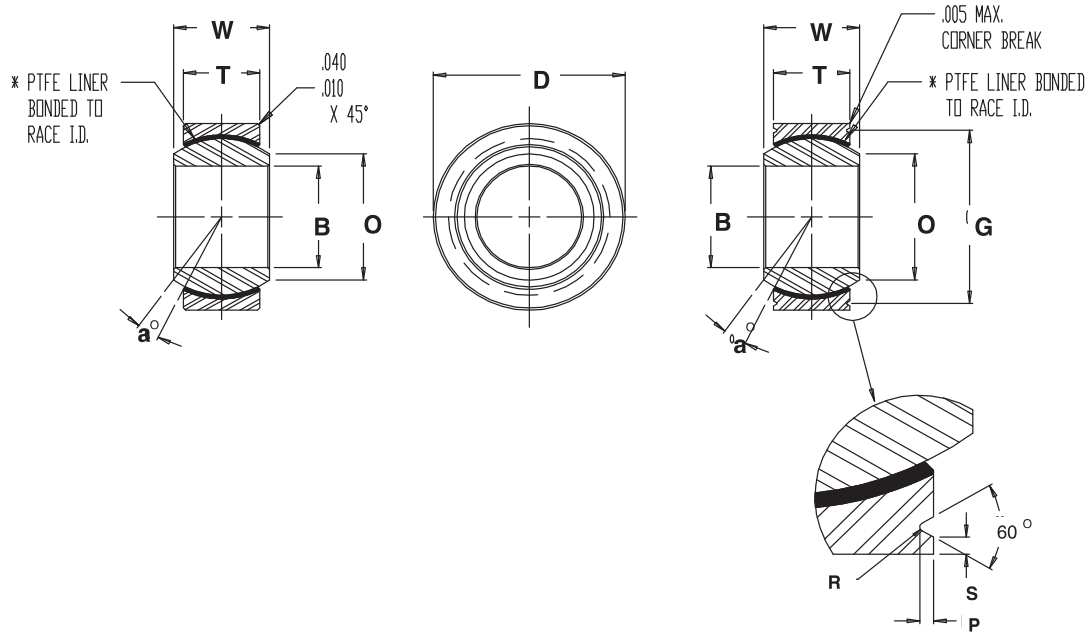


RBL Part No.	B DIA.	D DIA.	W WIDTH	T WIDTH	O DIA.	BALL DIA.	F CHAMF.	a MIS. ANG.	ULT. STATIC RADIAL LOAD (lbs)	APROX. WEIGHT (lbs.)
	+ .0000 - .0005	+ .0000 - .0005	+ .005 - .005	+ .005 - .005	REF.	REF.	+ .015 - .000	REF.		
RK3	0.1900	0.6250	0.281	0.187	0.293	0.406	0.016	16.5	2,961	0.02
RK4	0.2500	0.7500	0.375	0.281	0.354	0.500	0.016	14.5	5,246	0.04
RK5	0.3125	0.8750	0.437	0.313	0.447	0.625	0.016	14	6,554	0.05
RK6	0.3750	1.0000	0.500	0.375	0.517	0.718	0.016	12.5	8,606	0.08
RK7	0.4375	1.1875	0.562	0.437	0.586	0.812	0.032	11	11,100	0.12
RK8	0.5000	1.3125	0.687	0.531	0.637	0.937	0.044	12.5	15,600	0.18
RK10	0.6250	1.5625	0.875	0.687	0.802	1.187	0.044	12	25,700	0.33
RK12	0.7500	2.2500	1.250	0.937	1.038	1.625	0.044	15	47,600	0.97
RK16	1.0000	2.3750	1.125	0.875	1.345	1.750	0.062	10	48,200	0.94
RK19	1.1875	2.6250	1.250	1.000	1.562	2.000	0.085	8.5	63,000	1.27
RK24	1.5000	3.2500	1.500	1.250	2.000	2.500	0.085	7	98,000	2.38
RK30	1.8750	4.0000	1.625	1.313	2.521	3.000	0.125	7	123,500	3.75

* "T" TOLERANCE ACROSS INSERTS IS +/- .015.

MATERIALS

OUTER MEMBER	RACE	BALL
LOW-CARBON STEEL-ZINC PLATED, DICHROMATE TREATED ON ALL SURFACES EXPOSED AFTER INSTALLATION	BRASS	52100 STEEL HEAT TREATED HARD CHROME PLATED



RBL Part No.		B DIA.	D DIA.	W WIDTH	T WIDTH	O DIA.	G DIA.	BALL DIA.	a MIS. ANG. MIN.	LOAD RATINGS (lbs)			APROX. WEIGHT (lbs.)
PLAIN	GROOVED	+ .0000 - .0005	+ .0000 - .0005	+ .000 - .005	+ .005 - .005	REF.	+ .000 - .008	REF.		STATIC LIMIT	OSCILLATING LOAD		
										RADIAL	AXIAL		
RKSSX3T	RKSSX3TV	.1900	.5625	.281	.218	.293	.500	.406	11	3,975	150	1,500	.020
RKSSX4T	RKSSX4TV	.2500	.6562	.343	.250	.364	.594	.500	13.5	6,040	430	3,320	.020
RKSSX5T	RKSSX5TV	.3125	.7500	.375	.281	.419	.650	.562	12	8,750	700	5,460	.030
RKSSX6T	RKSSX6TV	.3750	.8125	.406	.312	.516	.712	.656	10	10,540	1,100	6,600	.040
RKSSX7T	RKSSX7TV	.4375	.9062	.437	.343	.530	.806	.687	9.5	13,200	1,400	8,050	.050
RKSSX8T	RKSSX8TV	.5000	1.0000	.500	.390	.600	.876	.781	9.5	17,900	2,100	10,400	.070
RKSSX9T	RKSSX9TV	.5625	1.0937	.562	.437	.671	.970	.875	9.5	23,200	3,680	13,000	.090
RKSSX10T	RKSSX10TV	.6250	1.1875	.625	.500	.739	1.063	.968	8.5	30,500	4,720	16,450	.120
RKSSX12T	RKSSX12TV	.7500	1.4375	.750	.593	.920	1.313	1.187	9	46,400	6,750	23,600	.210
RKSSX14T	RKSSX14TV	.8750	1.5625	.875	.703	.980	1.438	1.312	9.5	62,200	9,350	30,250	.270
RKSSX16T	RKSSX16TV	1.0000	1.7500	1.000	.797	1.118	1.626	1.500	10	82,200	12,160	38,000	.390

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MATERIALS

BALL		RACE	LINER
FKSSX-T	**PFKSSX-T	17-4 PH STAINLESS STEEL HEAT TREATED	*TEFLON FABRIC
440C STAINLESS STEEL HEAT TREATED	52100 STEEL HEAT TREATED HARD CHROME PLATED		

** Bore tolerance is +.0015/- .0005

STAKING GROOVE DATA

BORE SIZES	S	R	P
	LAND	RAD.	DEPTH
	MIN.	+ .002 - .005	+ .000 - .010
3 & 4	.010	.010	.025
5	.020	.010	.035
6 & 7	.020	.015	.035
8 thru 16	.020	.015	.055

NOTES:

DIAMETER "B" AND "D" ARE CONCENTRIC WITHIN .005 T.I.R.

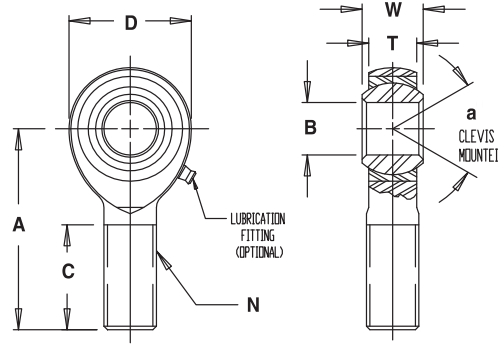
NO LOAD BREAKAWAY TORQUE

BORE SIZES	TORQUE
3 & 4	.25 to 5.0
5 to 12	1.0 to 5.0
14 & 16	2.0 to 8.0



3-PIECE, COMMERCIAL, SINTERED BRONZE

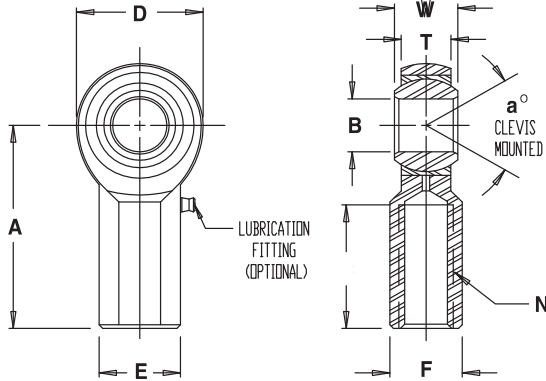
RM-SB / RF-SB



MATERIALS

BALL	BODY
52100 STEEL	LOW CARBON STEEL
Rc 56 MIN. HARD	ZINC PLATED
HARD CHROME PLATED	CHROMATE TREATED
RACE	
BRASS	

MALE ROD ENDS		B DIA.	D DIA.	W WIDTH	T WIDTH	BALL DIA.	A LGTH	N THD.	C LGTH	a MIS. ANGLE	ULT. STATIC RADIAL LOAD (LBS.)	APROX. WEIGHT (lbs.)
RIGHT HAND PART NO	LEFT HAND PART NO	+ .0025 - .0005	+ .010 - .010	+ .005 - .005	+ .015 - .015	REF.	+ .015 - .015	UNF 3A	+ .062 - .031	REF		
RM3SB	RML3SB	.1900	.625	.312	.250	.437	1.250	10-32	.750	13	1,174	.03
RM4SB	RML4SB	.2500	.750	.375	.281	.500	1.562	1/4-28	1.000	16	2,168	.04
RM5SB	RML5SB	.3125	.875	.437	.344	.625	1.875	5/16-24	1.250	14	2,796	.07
RM6SB	RML6SB	.3750	1.000	.500	.406	.719	1.938	3/8-24	1.250	12	4,012	.11
RM7SB	RML7SB	.4375	1.125	.562	.437	.812	2.125	7/16-20	1.375	14	4,244	.16
RM8SB	RML8SB	.5000	1.312	.625	.500	.937	2.438	1/2-20	1.500	12	6,700	.25
RM10SB	RML10SB	.6250	1.500	.750	.562	1.125	2.625	5/8-18	1.625	16	7,400	.38
RM12SB	RML12SB	.7500	1.750	.875	.687	1.312	2.875	3/4-16	1.750	14	11,550	.60



MALE ROD END LOAD RATINGS BASED ON NO LUBRICATING FITTING. FOR LOAD RATINGS WITH LUBRICATOR, PLEASE CONTACT THE RBL ENGINEERING DEPARTMENT.

MATERIALS

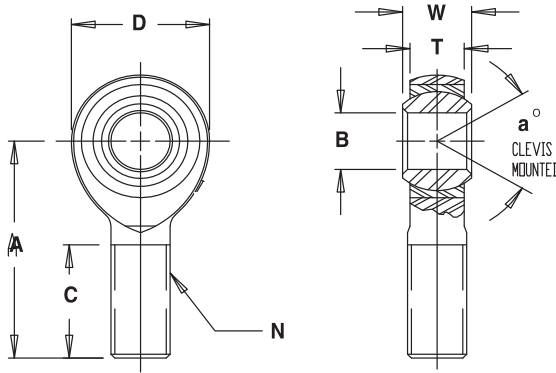
BALL	BODY
52100 STEEL	LOW CARBON STEEL
Rc 56 MIN. HARD	ZINC PLATED
HARD CHROME PLATED	CHROMATE TREATED
RACE	
BRASS	

FEMALE ROD ENDS		B DIA.	D DIA.	W WIDT H	T WIDTH	BALL DIA.	A LGTH	N THD.	C LGTH	E DIA	F FLAT	a MIS. ANG.	ULT. STATIC RADIAL LOAD (LBS.)	APROX. WEIGHT (lbs.)
RIGHT HAND PART NO	LEFT HAND PART NO	+ .0025 - .0005	+ .010 - .010	+ .005 - .005	+ .015 - .015	REF.	+ .015 - .015	UNF 2B	+ .062 - .031	+ .010 - .010	+ .010 - .010	REF		
RF3SB	RFL3SB	.1900	.625	.312	.250	.437	1.062	10-32	.500	.406	.312	13	1,624	.04
RF4SB	RFL4SB	.2500	.750	.375	.281	.500	1.312	1/4-28	.687	.468	.375	16	2,545	.06
RF5SB	RFL5SB	.3125	.875	.437	.344	.625	1.375	5/16-24	.687	.500	.437	14	3,200	.09
RF6SB	RFL6SB	.3750	1.000	.500	.406	.719	1.625	3/8-24	.812	.687	.562	12	3,950	.15
RF7SB	RFL7SB	.4375	1.125	.562	.437	.812	1.812	7/16-20	.937	.750	.625	14	4,300	.20
RF8SB	RFL8SB	.5000	1.312	.625	.500	.937	2.125	1/2-20	1.062	.875	.750	12	6,700	.33
RF10SB	RFL10SB	.6250	1.500	.750	.562	1.125	2.500	5/8-18	1.375	1.000	.875	16	7,400	.48
RF12SB	RFL12SB	.7500	1.750	.875	.687	1.312	2.875	3/4-16	1.562	1.125	1.000	14	11,550	.72

NOTES: FOR GREASE FITTINGS ADD "Z" TO SUFFIX. EXAMPLE: RM8Z
FOR STUDS ADD "Y" TO SUFFIX. EXAMPLE: RF6Y

3-PIECE, PRECISION-WEAR RESISTANT, PLASTIC RACE

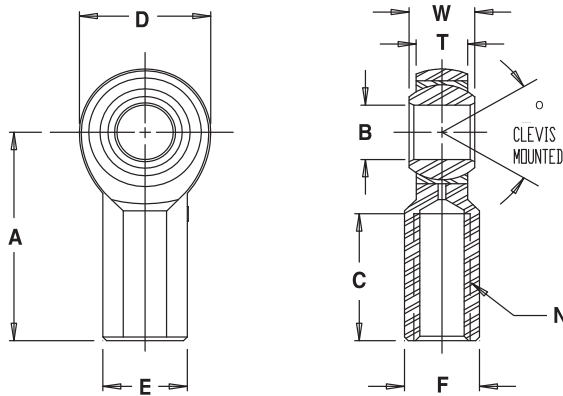
RNJM / RNJF



MATERIALS

BALL	BODY
LOW CARBON STEEL	LOW CARBON STEEL
CASE HARDENED	ZINC PLATED
ZINC PLATED	CHROMATE TREATED
RACE	
TEFLON LUBRICATED, FIBER REINFORCED ENGINEERING PLASTIC	

MALE ROD ENDS		B	D	W	T	BALL	A	N	C	a	ULT.	APROX.
RIGHT	LEFT	DIA.	DIA.	WIDTH	WIDTH	DIA.	LGTH	THD.	LGTH	MIS.	STATIC	WEIGHT
HAND	HAND					REF.				ANGLE	RADIAL	(lbs.)
NO	PART NO	+ .0025	+ .010	+ .005	+ .015		+ .015	UNF	+ .062	REF	LOAD	
		- .0005	- .010	- .005	- .015		- .015	3A	- .031		(LBS.)	
RNJM3	RNJML3	.1900	.625	.312	.250	.437	1.250	10-32	.750	13	1,174	.03
RNJM4	RNJML4	.2500	.750	.375	.281	.500	1.562	1/4-28	1.000	16	2,168	.04
RNJM5	RNJML5	.3125	.875	.437	.344	.625	1.875	5/16-24	1.250	14	2,796	.07
RNJM6	RNJML6	.3750	1.000	.500	.406	.719	1.938	3/8-24	1.250	12	4,012	.11
RNJM7	RNJML7	.4375	1.125	.562	.437	.812	2.125	7/16-20	1.375	14	4,244	.16
RNJM8	RNJML8	.5000	1.312	.625	.500	.937	2.438	1/2-20	1.500	12	6,453	.25
RNJM10	RNJML10	.6250	1.500	.750	.562	1.125	2.625	5/8-18	1.625	16	7,400	.38
RNJM12	RNJML12	.7500	1.750	.875	.687	1.312	2.875	3/4-16	1.750	14	10,937	.60



MATERIALS

BALL	BODY
LOW CARBON STEEL	LOW CARBON STEEL
CASE HARDENED	ZINC PLATED
ZINC PLATED	CHROMATE TREATED
RACE	
TEFLON LUBRICATED, FIBER REINFORCED ENGINEERING PLASTIC	

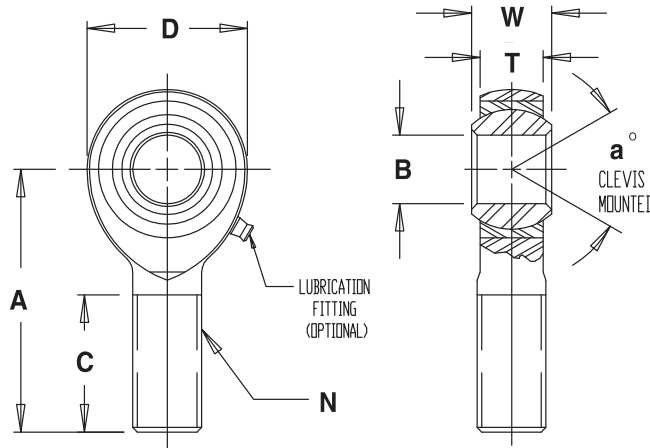
FEMALE ROD ENDS		B	D	W	T	BALL	A	N	C	E	F	a	ULT.	APROX.
RIGHT	LEFT	DIA.	DIA.	WIDTH	WIDTH	DIA.	LGTH	THD.	LGTH	DIA	FLAT	MIS.	STATIC	WEIGHT
HAND	HAND					REF.						ANG.	RADIAL	(lbs.)
NO	PART NO	+ .0025	+ .010	+ .005	+ .015		+ .015	UNF	+ .062	+ .010	+ .010	REF	LOAD	
		- .0005	- .010	- .005	- .015		- .015	2B	- .031	- .010	- .010		(LBS.)	
RNJF3	RNJFL3	.1900	.625	.312	.250	.437	1.062	10-32	.500	.406	.312	13	1,220	.04
RNJF4	RNJFL4	.2500	.750	.375	.281	.500	1.312	1/4-28	.687	.469	.375	16	2,500	.06
RNJF5	RNJFL5	.3125	.875	.437	.344	.625	1.375	5/16-24	.687	.500	.437	14	2,753	.09
RNJF6	RNJFL6	.3750	1.000	.500	.406	.719	1.625	3/8-24	.812	.687	.562	12	3,950	.15
RNJF7	RNJFL7	.4375	1.125	.562	.437	.812	1.812	7/16-20	.937	.750	.625	14	4,300	.20
RNJF8	RNJFL8	.5000	1.312	.625	.500	.937	2.125	1/2-20	1.062	.875	.750	12	6,453	.33
RNJF10	RNJFL10	.6250	1.500	.750	.562	1.125	2.500	5/8-18	1.375	1.000	.875	16	7,400	.48
RNJF12	RNJFL12	.7500	1.750	.875	.687	1.312	2.875	3/4-16	1.562	1.125	1.000	14	10,937	.72

NOTES: FOR STUDS ADD "Y" TO SUFFIX.
EXAMPLE: RNJM6Y



3-PIECE, PRECISION-WEAR RESISTANT/PTFE LINERS AVAILABLE

RJM / RJML



MALE ROD ENDS		B DIA.	D DIA.	W WIDTH	T WIDTH	BALL DIA.	A LGTH	N THD.	C LGTH	a MIS. ANGLE	ULT. STATIC RADIAL LOAD (LBS.)	APROX. WEIGHT (lbs.)
RIGHT HAND PART NO	LEFT HAND PART NO	+ .0015 - .0005	+ .010 - .010	+ .000 - .005	+ .015 - .015	REF.	+ .015 - .015	UNF 3A	+ .062 - .031	REF		
RJM2*	RJML2*	.1250	.500	.250	.187	.312	.937	6-32 UNC	.562	16	500	.013
RJM3	RJML3	.1900	.625	.312	.250	.437	1.250	10-32	.750	13	1,174	.03
RJM4	RJML4	.2500	.750	.375	.281	.500	1.562	1/4-28	1.000	16	2,168	.04
RJM5	RJML5	.3125	.875	.437	.344	.625	1.875	5/16-24	1.250	14	2,796	.07
RJM6	RJML6	.3750	1.000	.500	.406	.719	1.938	3/8-24	1.250	12	4,012	.11
RJM7	RJML7	.4375	1.125	.562	.437	.812	2.125	7/16-20	1.375	14	4,244	.16
RJM8	RJML8	.5000	1.312	.625	.500	.937	2.438	1/2-20	1.500	12	6,700	.25
RJM10	RJML10	.6250	1.500	.750	.562	1.125	2.625	5/8-18	1.625	16	7,400	.38
RJM12	RJML12	.7500	1.750	.875	.687	1.312	2.875	3/4-16	1.750	14	11,550	.60
RJM16**	RJML16	1.0000	2.950	1.375	1.015	1.875	4.500	1-1/4-12	2.125	17	43,555	2.736
RJM16-1**	RJML16-1**	1.0000	2.950	1.375	1.015	1.875	4.500	1-14	2.125	17	43,555	2.464
RJM16-2**	RJML16-2**	1.0000	2.950	1.375	1.015	1.875	4.500	1-12	2.125	17	43,555	2.464

MALE ROD END LOAD RATINGS BASED ON NO LUBRICATION FITTING. FOR LOAD RATINGS OF ROD ENDS WITH LUBRICATOR, PLEASE CONTACT THE RBLENGINEERING DEPARTMENT.

*GREASE FITTINGS & PTFE LINERS NOT AVAILABLE.

** TOLERANCE VARIATION: "D", "A" ARE +/- .020

NOTES:

FOR GREASE FITTINGS ADD "Z" TO SUFFIX.

EXAMPLE: RJM6Z

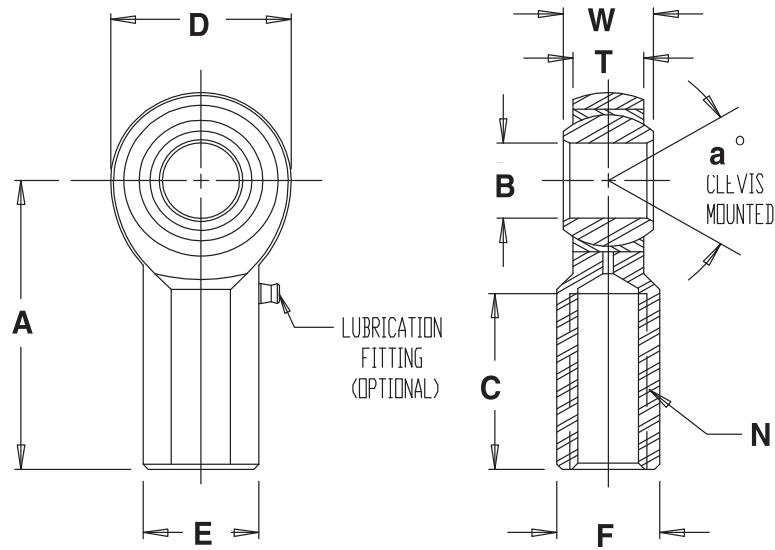
FOR STUDS ADD "Y" TO SUFFIX.

EXAMPLE: RJM5Y

FOR TEFLON LINER ADD "T" TO SUFFIX.

EXAMPLE: RJM12T

BALL	BODY
52100 STEEL	LOW CARBON STEEL
Rc 56 MIN. HARD	ZINC PLATED
HARD CHROME PLATED	CHROMATE TREATED
RACE	
STEEL ALLOY, HEAT TREATED	
ZINC PLATED, CHROMATE TREATED	



FEMALE ROD ENDS		B DIA.	D DIA.	W WIDTH	T WIDTH	BALL DIA.	A LGTH	N THD.	C LGTH	E DIA	F FLAT	a MIS. ANG.	ULT. STATIC RADIAL LOAD (LBS.)	APROX. WEIGHT (lbs.)
RIGHT HAND PART NO	LEFT HAND PART NO	+ .0025 - .0005	+ .010 - .010	+ .005 - .005	+ .015 - .015	REF.	+ .015 - .015	UNF 2B	+ .062 - .031	+ .010 - .010	+ .010 - .010	REF		
RJF2*	RJFL2*	.1250	.500	.250	.187	.312	.812	6-32UNC	.437	.312	.250	16	1,210	.019
RJF3	RJFL3	.1900	.625	.312	.250	.437	1.062	10-32	.500	.406	.312	13	1,624	.04
RJF4	RJFL4	.2500	.750	.375	.281	.500	1.312	1/4-28	.687	.469	.375	16	2,545	.06
RJF5	RJFL5	.3125	.875	.437	.344	.625	1.375	5/16-24	.687	.500	.437	14	3,200	.09
RJF6	RJFL6	.3750	1.000	.500	.406	.719	1.625	3/8-24	.812	.687	.562	12	3,950	.15
RJF7	RJFL7	.4375	1.125	.562	.437	.812	1.812	7/16-20	.937	.750	.625	14	4,300	.20
RJF8	RJFL8	.5000	1.312	.625	.500	.937	2.125	1/2-20	1.062	.875	.750	12	6,700	.33
RJF10	RJFL10	.6250	1.500	.750	.562	1.125	2.500	5/8-18	1.375	1.000	.875	16	7,400	.48
RJF12	RJFL12	.7500	1.750	.875	.687	1.312	2.875	3/4-16	1.562	1.125	1.000	14	11,550	.72
RJF16**	RJFL16**	1.0000	2.750	1.375	1.000	1.875	4.125	1-1/4-12	2.125	1.625	1.500	17	40,893	2.125
RJF16-1**	RJFL16-1**	1.0000	2.750	1.375	1.000	1.875	4.125	1-14	2.125	1.625	1.500	17	43,555	2.410
RJF16-2**	RJFL16-2**	1.0000	2.750	1.375	1.000	1.875	4.125	1-12	2.125	1.625	1.500	17	43,555	2.410

*GREASE FITTINGS & PTFE LINERS NOT AVAILABLE.

** TOLERANCE VARIATION: "D", "A" ARE +/- .020

NOTES:

FOR GREASE FITTINGS ADD "Z" TO SUFFIX.

EXAMPLE: RJF6Z

FOR STUDS ADD "Y" TO SUFFIX.

EXAMPLE: RJF5Y

FOR TEFLON LINER ADD "T" TO SUFFIX.

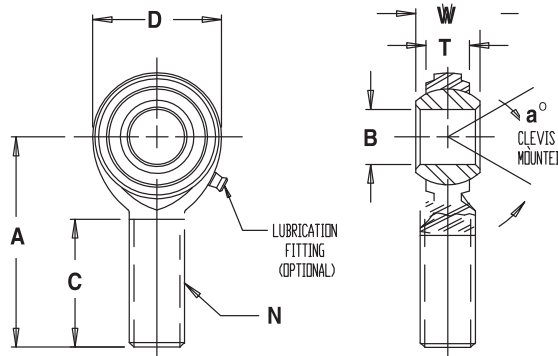
EXAMPLE: RJF12T

BALL	BODY
52100 STEEL	LOW CARBON STEEL
Rc 56 MIN. HARD	ZINC PLATED
HARD CHROME PLATED	CHROMATE TREATED
RACE	
STEEL ALLOY, HEAT TREATED	
ZINC PLATED, CHROMATE TREATED	



2-PIECE, METAL TO METAL

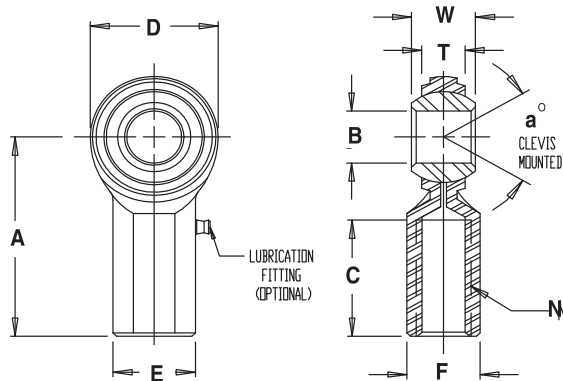
RCM / RCF



MATERIALS

BALL	BODY
52100 STEEL	LOW CARBON STEEL
Rc 56 MIN.	ZINC PLATED
HARD CHROME PLATED	CHROMATE TREATED

MALE ROD ENDS		B	D	W	T	BALL	A	N	C	a	ULT. STATIC RADIAL LOAD (LBS.)		APROX. WEIGHT (lbs.)
RIGHT HAND PART NO	LEFT HAND PART NO	DIA.	DIA.	WIDTH	WIDTH	DIA.	LGTH	THD.	LGTH	MIS. ANGLE	METAL TO METAL	**TEFLON LINED	
RCM3*	RCML3*	.1900	.625	.312	.234	.437	1.250	10-32	.750	20	1,210	902	.03
RCM4*	RCML4*	.2500	.750	.375	.250	.500	1.562	1/4-28	1.000	27	2,225	1,809	.04
RCM5*	RCML5*	.3125	.875	.437	.312	.625	1.875	5/16-24	1.250	22	3,600	2,984	.07
RCM6	RCML6	.3750	1.000	.500	.359	.719	1.938	3/8-24	1.250	22	5,100	4,244	.11
RCM7	RCML7	.4375	1.125	.562	.406	.812	2.125	7/16-20	1.375	21	6,402	5,312	.15
RCM8	RCML8	.5000	1.312	.625	.453	.937	2.438	1/2-20	1.500	20	8,386	7,211	.24
RCM10	RCML10	.6250	1.500	.750	.484	1.125	2.625	5/8-18	1.625	26	9,813	8,403	.36
RCM12	RCML12	.7500	1.750	.875	.593	1.312	2.875	3/4-16	1.750	24	14,290	12,321	.57



*GREASE FITTINGS ARE NOT SUPPLIED ON THESE SIZES.
 MALE ROD END LOAD RATINGS BASED ON NO LUBRICATING FITTING.
 FOR LOAD RATINGS WITH LUBRICATOR, PLEASE CONTACT THE
 RBL ENGINEERING DEPARTMENT.

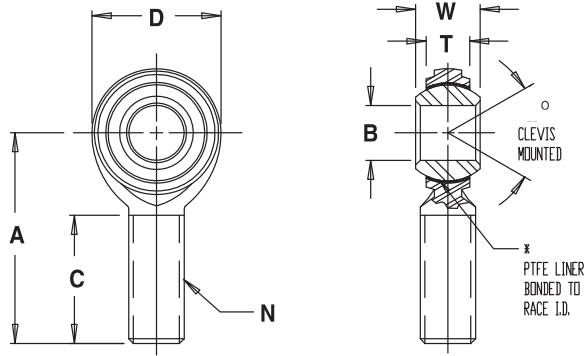
MATERIALS

BALL	BODY
52100 STEEL	LOW CARBON STEEL
Rc 56 MIN.	ZINC PLATED
HARD CHROME PLATED	CHROMATE TREATED

FEMALE ROD ENDS		B	D	W	T	BALL	A	N	C	E	F	a	ULT. STATIC RADIAL LOAD (LBS.)	
RIGHT HAND PART NO	LEFT HAND PART NO	DIA.	DIA.	WIDTH	WIDTH	DIA.	LGTH	THD.	LGTH	DIA	FLAT	MIS. ANG.	METAL TO METAL	**TEFLON LINED
RCF3*	RCFL3*	.1900	.625	.312	.234	.437	1.062	10-32	.500	.406	.312	20	2,100	1,637
RCF4-3	N / A	.2500	.750	.375	.250	.500	1.312	10-32	.687	.468	.375	27	3,250	
RCF4	RCFL4	.2500	.750	.375	.250	.500	1.312	1/4-28	.687	.468	.375	27	3,250	2,612
RCF5	RCFL5	.3125	.875	.437	.312	.625	1.375	5/16-24	.687	.500	.437	22	3,934	3,110
RCF6	RCFL6	.3750	1.000	.500	.359	.719	1.625	3/8-24	.812	.687	.562	22	5,100	4,206
RCF7	RCFL7	.4375	1.125	.562	.406	.812	1.812	7/16-20	.937	.750	.625	21	6,420	5,384
RCF8	RCFL8	.5000	1.312	.625	.453	.937	2.125	1/2-20	1.062	.875	.750	20	9,100	7,826
RCF10	RCFL10	.6250	1.500	.750	.484	1.125	2.500	5/8-18	1.375	1.000	.875	26	9,800	8,343
RCF12	RCFL12	.7500	1.750	.875	.593	1.312	2.875	3/4-16	1.562	1.125	1.000	24	14,250	12,342

2-PIECE, STAINLESS STEEL SELF LUBRICATING

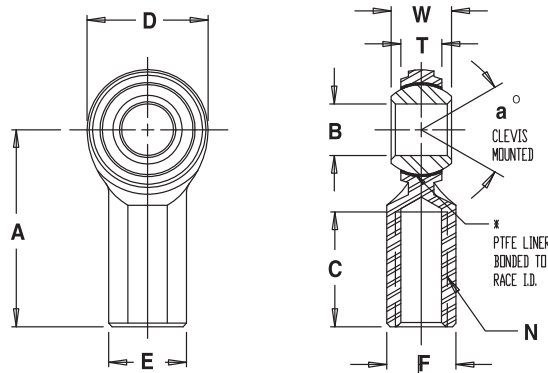
RSCM-T / RSCF-T



MATERIALS

BALL	BODY
440C STAINLESS STEEL HEAT TREATED	303 STAINLESS STEEL PASSIVATED
LINER	
*TEFLON FABRIC	

MALE ROD ENDS		B DIA.	D DIA.	W WIDTH	T WIDTH	BALL DIA.	A LGTH	N THD.	C LGTH	a MIS. ANGL	ULT. STATIC RADIAL LOAD (LBS.)	APROX. WEIGHT (lbs.)
RIGHT HAND PART NO	LEFT HAND PART NO	+ .0025 - .0005	+ .010 - .010	+ .005 - .005	REF.	REF.	+ .015 - .015	UNF 3A	+ .062 - .031	REF		
RSCM3T	RSCML3T	.1900	.625	.312	.234	.437	1.250	10-32	.750	20	912	.03
RSCM4T	RSCML4T	.2500	.750	.375	.250	.500	1.562	1/4-28	1.000	27	1,370	.04
RSCM5T	RSCML5T	.3125	.875	.437	.312	.625	1.875	5/16-24	1.250	22	2,050	.07
RSCM6T	RSCML6T	.3750	1.000	.500	.359	.719	1.938	3/8-24	1.250	22	3,040	.11
RSCM7T	RSCML7T	.4375	1.125	.562	.406	.812	2.125	7/16-20	1.375	21	3,780	.15
RSCM8T	RSCML8T	.5000	1.312	.625	.453	.937	2.438	1/2-20	1.500	20	4,700	.24
RSCM10T	RSCML10T	.6250	1.500	.750	.484	1.125	2.625	5/8-18	1.625	26	5,860	.36
RSCM12T	RSCML12T	.7500	1.750	.875	.593	1.312	2.875	3/4-16	1.750	24	7,512	.57



MATERIALS

BALL	BODY
440C STAINLESS STEEL HEAT TREATED	303 STAINLESS STEEL PASSIVATED
LINER	
*TEFLON FABRIC	

FEMALE ROD ENDS		B DIA.	D DIA.	W WIDTH	T WIDTH	BALL DIA.	A LGTH	N THD.	C LGTH	E DIA	F FLAT	a MIS. ANG.	ULT. STATIC RADIAL LOAD (LBS.)	APROX. WEIGHT (lbs.)
RIGHT HAND PART NO	LEFT HAND PART NO	+ .0025 - .0005	+ .010 - .010	+ .005 - .005	REF.	REF.	+ .015 - .015	UNF 2B	+ .062 - .031	+ .010 - .010	+ .010 - .010	REF		
RSCF3T	RSCFL3T	.1900	.625	.312	.234	.437	1.062	10-32	.500	.406	.312	20	930	.04
RSCF4T	RSCFL4T	.2500	.750	.375	.250	.500	1.312	1/4-28	.687	.468	.375	27	1,380	.05
RSCF5T	RSCFL5T	.3125	.875	.437	.312	.625	1.375	5/16-24	.687	.500	.437	22	2,100	.08
RSCF6T	RSCFL6T	.3750	1.000	.500	.359	.719	1.625	3/8-24	.812	.687	.562	22	3,080	.13
RSCF7T	RSCFL7T	.4375	1.125	.562	.406	.812	1.812	7/16-20	.937	.750	.625	21	3,790	.18
RSCF8T	RSCFL8T	.5000	1.312	.625	.453	.937	2.125	1/2-20	1.062	.875	.750	20	4,720	.29
RSCF10T	RSCFL10T	.6250	1.500	.750	.484	1.125	2.500	5/8-18	1.375	1.000	.875	26	5,870	.43
RSCF12T	RSCFL12T	.7500	1.750	.875	.593	1.312	2.875	3/4-16	1.562	1.125	1.000	24	7,520	.65

* A trade mark of E.I. Dupont de Nemours & Co., Inc.

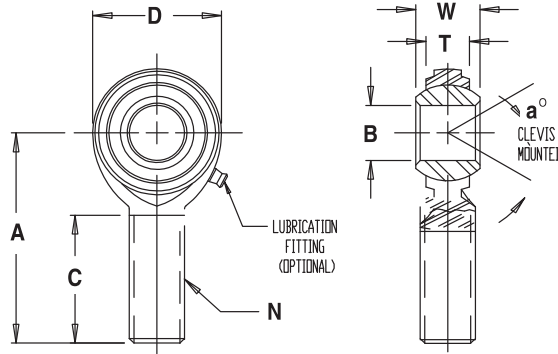
NOTES: FOR STUD ADD "Y" TO SUFFIX.

EXAMPLE: RCM10TY



2-PIECE METRIC, METAL TO METAL/PTFE LINERS AVAILABLE

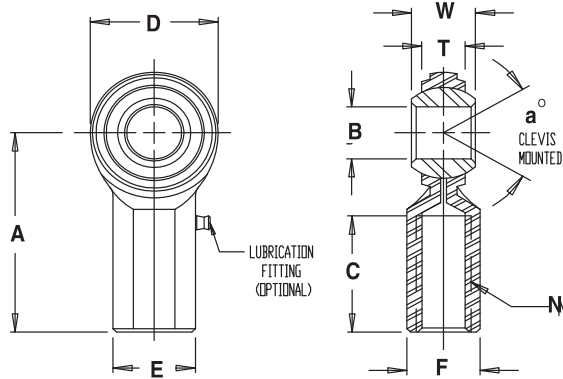
RCM-M / RCF-M



MATERIALS

BALL	BODY
52100 STEEL	LOW CARBON STEEL
Rc 56 MIN.	ZINC PLATED
HARD CHROME PLATED	CHROMATE TREATED

MALE ROD ENDS		B DIA.	D DIA.	W WIDTH	T WIDTH	BALL DIA.	A LGTH	N THD.	C LGTH	a MIS. ANG.	ULT. STATIC RADIAL LOAD (Newton)	APROX. WEIGHT (g)
RIGHT HAND PART NO	LEFT HAND PART NO	+ .065 - .012	+ .38 - .38	+ .12 - .12	REF.	REF.	+ .40 - .40	THREAD	+ 1.00 - 1.00	REF		
RCM5M*	RCML5M*	5	16	8	5.75	11.10	33	M5 X 0.8	20	22	5,168	12
RCM6M*	RCML6M*	6	19	9	6.25	12.70	36	M6 X 1.0	22	23	7,296	18
RCM8M*	RCML8M*	8	22.25	12	8.0	15.88	42	M8 X 1.25	25	28	13,591	31
RCM10M	RCML10M	10	27	14	9.5	19.05	48	M10 X 1.5	29	26	21,024	68
RCM10MF	RCML10MF	10	27	14	9.5	19.05	48	M10 X 1.25	29	26	21,024	68
RCM12M	RCML12M	12	30	16	10.75	22.23	54	M12 X 1.75	33	27	25,819	78
RCM12MF	RCML12MF	12	30	16	10.75	22.23	54	M12 X 1.25	33	27	25,819	78
RCM14M	RCML14M	14	34.75	19	12.25	25.40	60	M14 X 2.0	36	30	35,214	118
RCM16M	RCML16M	16	38	21	12.75	28.58	66	M16 X 2.0	40	33	37,391	173
RCM18M	RCML18M	18	42	23	14.75	31.75	72	M18 X 1.5	44	30	47,903	260
RCM20M	RCML20M	20	46	25	16.25	34.93	78	M20 X 1.5	47	29	57,101	290



*GREASE FITTINGS ARE NOT SUPPLIED ON THESE SIZES.
 MALE ROD END LOAD RATINGS BASED ON NO LUBRICATING FITTING.
 FOR LOAD RATINGS WITH LUBRICATOR, PLEASE CONTACT THE
 RBL ENGINEERING DEPARTMENT.

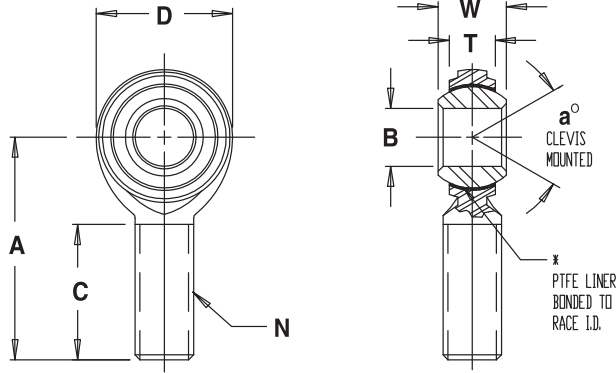
MATERIALS

BALL	BODY
52100 STEEL	LOW CARBON STEEL
Rc 56 MIN.	ZINC PLATED
HARD CHROME PLATED	CHROMATE TREATED

FEMALE ROD ENDS		B DIA.	D DIA.	W WIDT H	T WIDTH	BALL DIA.	A LGTH	N THD.	C LGTH	E DIA	F FLAT	a MIS. ANG.	ULT. STATIC RADIAL LOAD (Newton)	APROX. WEIGHT (g)
RIGHT HAND PART NO	LEFT HAND PART NO	+ .065 - .012	+ .38 - .38	+ .12 - .12	REF.	REF.	+ .40 - .40	THREAD	+ 1.00 - 1.00	+ .25 - .25	+ .25 - .25	REF		
RCF5M*	RCFL5M*	5	16	8	5.75	11.10	27	M5 X 0.8	14	11	9	22	8,247	18
RCF6M	RCFL6M	6	19	9	6.25	12.70	30	M6 X 1.0	14	13	11	23	11,895	25
RCF8M	RCFL8M	8	22.25	12	8.0	15.88	36	M8 X 1.25	17	16	14	28	15,190	40
RCF10M	RCFL10M	10	27	14	9.5	19.05	43	M10 X 1.5	21	19	17	26	22,750	80
RCF10MF	RCFL10MF	10	27	14	9.5	19.05	43	M10 X 1.25	21	19	17	26	22,750	80
RCF12M	RCFL12M	12	30	16	10.75	22.23	50	M12 X 1.75	24	22	19	27	25,819	95
RCF12MF	RCFL12MF	12	30	16	10.75	22.23	50	M12 X 1.25	24	22	19	27	25,819	95
RCF14M	RCFL14M	14	34.75	19	12.25	25.40	57	M14 X 2.0	27	25	22	30	35,214	160
RCF16M	RCFL16M	16	38	21	12.75	28.58	64	M16 X 2.0	33	27	22	33	37,391	215
RCF18M	RCFL18M	18	42	23	14.75	31.75	71	M18 X 1.5	36	28.58	25.4	30	47,903	300
RCF20M	RCFL20M	20	46	25	16.25	34.93	77	M20 X 1.5	40	30.15	27	29	57,101	350

2-PIECE METRIC, STAINLESS STEEL, SELF-LUBRICATING

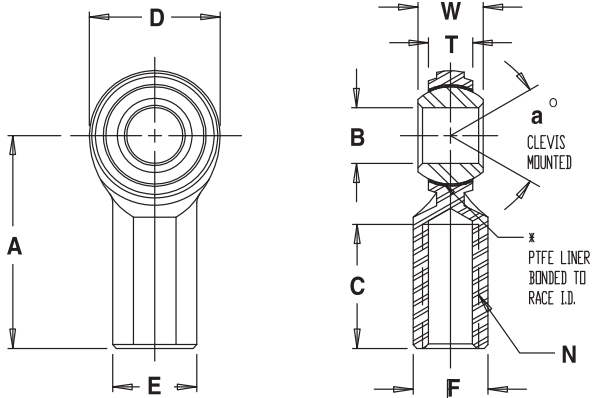
RSCM-MT / RSCF-MT



MATERIALS

BALL	BODY
440C STAINLESS STEEL HEAT TREATED	303 STAINLESS STEEL PASSIVATED
LINER	
*TEFLON FABRIC	

MALE ROD ENDS		B DIA.	D DIA.	W WIDTH	T WIDTH	BALL DIA.	A LGTH	N THD.	C LGTH	a MIS. ANG.	ULT. STATIC RADIAL LOAD (Newton)	APROX. WEIGHT (g)
RIGHT HAND PART NO	LEFT HAND PART NO	+ .065 - .012	+ .38 - .38	+ .12 - .12	REF.	REF.	+ .40 - .40	THREAD	+ 1.00 - 1.00	REF		
RSCM5MT	RSCML5MT	5	16	8	5.75	11.10	33	M5 X 0.8	20	22	4,056	12
RSCM6MT	RSCML6MT	6	19	9	6.25	12.70	36	M6 X 1.0	22	23	6,093	18
RSCM8MT	RSCML8MT	8	22.25	12	8.0	15.88	42	M8 X 1.25	25	28	9,118	31
RSCM10MT	RSCML10MT	10	27	14	9.5	19.05	48	M10 X 1.5	29	26	14,144	68
RSCM12MT	RSCML12MT	12	30	16	10.75	22.23	54	M12 X 1.75	33	27	17,373	78
RSCM14MT	RSCML14MT	14	34.75	19	12.25	25.40	60	M14 X 2.0	36	30	23,699	118
RSCM16MT	RSCML16MT	16	38	21	12.75	28.58	66	M16 X 2.0	40	33	25,162	173



MATERIALS

BALL	BODY
440C STAINLESS STEEL HEAT TREATED	303 STAINLESS STEEL PASSIVATED
LINER	
*TEFLON FABRIC	

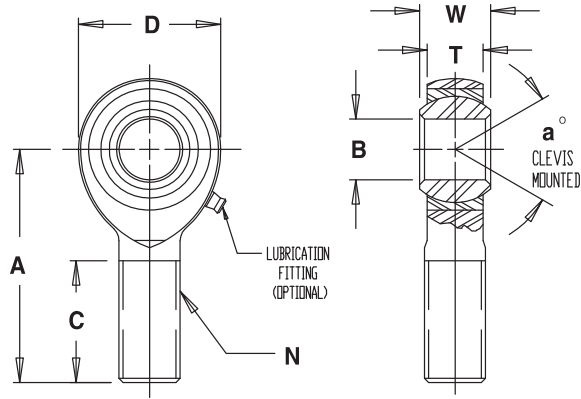
FEMALE ROD ENDS		B DIA.	D DIA.	W WIDT H	T WIDTH	BALL DIA.	A LGTH	N THD.	C LGTH	E DIA	F FLAT	a MIS. ANG.	ULT. STATIC RADIAL LOAD (Newton)	APROX. WEIGHT (g)
RIGHT HAND PART NO	LEFT HAND PART NO	+ .065 - .012	+ .38 - .38	+ .12 - .12	REF.	REF.	+ .40 - .40	THREAD	+ 1.00 - 1.00	+ .25 - .25	+ .25 - .25	REF		
RSCF5MT	RSCFL5MT	5	16	8	5.75	11.10	27	M5 X 0.8	14	11	9	22	4,136	18
RSCF6MT	RSCFL6MT	6	19	9	6.25	12.70	30	M6 X 1.0	14	13	11	23	6,138	25
RSCF8MT	RSCFL8MT	8	22.25	12	8.0	15.88	36	M8 X 1.25	17	16	14	28	9,340	40
RSCF10MT	RSCFL10MT	10	27	14	9.5	19.05	43	M10 X 1.5	21	19	17	26	15,310	80
RSCF12MT	RSCFL12MT	12	30	16	10.75	22.23	50	M12 X 1.75	24	22	19	27	17,373	95
RSCF14MT	RSCFL14MT	14	34.75	19	12.25	25.40	57	M14 X 2.0	27	25	22	30	23,699	160
RSCF16MT	RSCFL16MT	16	38	21	12.75	28.58	64	M16 X 2.0	33	27	22	33	25,162	215

* A trade mark of E.I. Dupont de Nemours & Co., Inc.

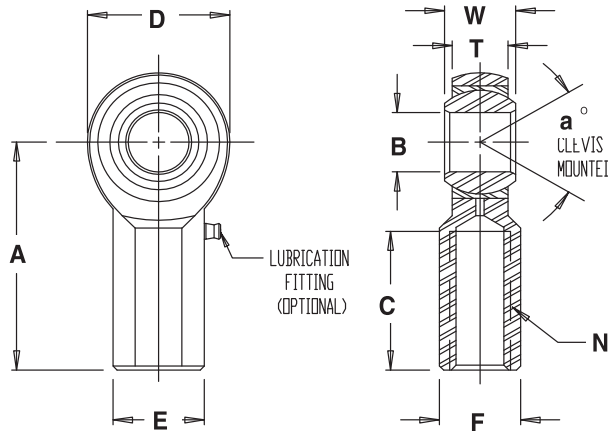


3-PIECE METRIC, PRECISION-WEAR RESISTANT / PTFE LINERS AVAILABLE

RJM-M / RJF-M



MALE ROD ENDS		B DIA.	D DIA.	W WIDTH	T WIDTH	BALL DIA.	A LGTH	N THD.	C LGTH	a MIS. ANG.	ULT. STATIC RADIAL LOAD (Newton)	APROX. WEIGHT (g)
RIGHT HAND PART NO	LEFT HAND PART NO	+ .065 - .012	+ .38 - .38	+ .12 - .12	+ .13 - .13	REF.	+ .40 - .40	THREAD	+ 1.00 - 1.00	REF		
RJM6M*	RJML6M*	6	19	9	7	12.70	36	M6 X 1.0	22	13	7,295	18
RJM8M*	RJML8M*	8	22.25	12	8.75	15.88	42	M8 X 1.25	25	18	13,595	31
RJM10M	RJML10M	10	27	14	10.5	19.05	48	M10 X 1.5	29	17	20,605	68
RJM12M	RJML12M	12	30	16	12	22.23	54	M12 X 1.75	33	17	18,215	78
RJM14M	RJML14M	14	34.75	19	13.50	25.40	60	M14 X 2.0	36	21	29,840	118
RJM16M	RJML16M	16	38	21	14.25	28.58	66	M16 X 2.0	40	23	32,225	173



NOTES:

FOR GREASE FITTINGS ADD "Z" TO SUFFIX.

EXAMPLE: RJF6MZ

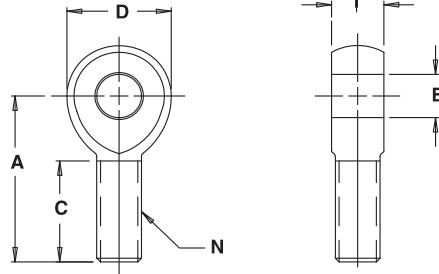
FOR TEFLON LINER ADD "T" TO SUFFIX.

EXAMPLE: RJF6MT

FEMALE ROD ENDS		B DIA.	D DIA.	W WIDTH	T WIDTH	BALL DIA.	A LGTH	N THD.	C LGTH	E DIA	F FLAT	a MIS. ANG.	ULT. STATIC RADIAL LOAD (Newton)	APROX. WEIGHT (g)
RIGHT HAND PART NO	LEFT HAND PART NO	+ .065 - .012	+ .38 - .38	+ .12 - .12	REF.	REF.	+ .40 - .40	THREAD	+ 1.00 - 1.00	+ .25 - .25	+ .25 - .25	REF		
RJF6M	RJFL6M	6	19	9	7	12.70	30	M6 X 1.0	14	13	11	13	10,575	25
RJF8M	RJFL8M	8	22.25	12	8.75	15.88	36	M8 X 1.25	17	16	14	18	14,075	40
RJF10M	RJFL10M	10	27	14	10.5	19.05	43	M10 X 1.5	21	19	17	17	20,605	80
RJF12M	RJFL12M	12	30	16	12	22.23	50	M12 X 1.75	24	22	19	17	18,215	95
RJF14M	RJFL14M	14	34.75	19	13.50	25.40	57	M14 X 2.0	27	25	22	21	29,840	160
RJF16M	RJFL16M	16	38	21	14.25	28.58	64	M16 X 2.0	33	27	22	23	32,225	215

BALL	BODY	RACE
52100 STEEL Rc 56 MIN. HARD HARD CHROME PLATED	LOW CARBON STEEL ZINC PLATED CHROMATE TREATED	STEEL ALLOY, HEAT TREATED ZINC PLATED, CHROMATE TREATED

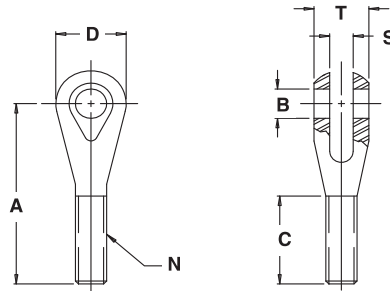
*GREASE FITTINGS & PTFE LINERS NOT AVAILABLE.



MATERIALS
 LOW CARBON STEEL
 ZINC PLATED

SOLID ROD ENDS

PART NO.	BORE x THD.	B DIA.	D DIA.	T WIDTH	A LGTH.	C LGTH.	N THD.	ULT. RADIAL STATIC LOAD
	REF.	+0.0025 -0.0005	+0.010 -0.010	+0.005 -0.005	+0.015 -0.015	+0.062 -0.031	UNF 3A	(lbs.)
RD1	5/8 x 5/8	.6250	1.500	.750	2.625	1.625	5/8-18	16,600
RD2	5/8 x 3/4	.6250	1.750	.875	2.875	1.750	3/4-16	18,500
RD3	3/4 x 3/4	.7500	1.750	.875	2.875	1.750	3/4-16	18,500
RD4	1/2 x 1/2	.5000	1.312	.625	2.437	1.500	1/2-20	12,100
RD5	1/2 x 3/4	.5000	1.750	.875	2.875	1.750	3/4-16	18,500
RD8	1/2 x 3/4	.5000	1.500	.750	2.625	1.625	3/4-16	18,500



MATERIALS
 LOW CARBON STEEL
 ZINC PLATED OR
 17-4 PH STAINLESS STEEL
NOTE:
 1. ADD "S" TO PREFIX
 EXAMPLE: SCV1

CLEVIS

PART NO.	BORE x THD.	B DIA.	D DIA.	T WIDTH	A LGTH.	C LGTH.	S SLOT	N THD.
	REF.	+0.0025 -0.0005	+0.010 -0.010	+0.005 -0.005	+0.015 -0.015	+0.062 -0.031	+0.005 -0.005	UNF 3A
CV1	3/8 x 5/8	.3750	1.125	.825	3.375	2.000	.375	5/8-18
CV2	1/2 x 5/8	.5000	1.125	.825	3.375	2.000	.375	5/8-18
CV3	3/8 x 3/4	.3750	1.125	.825	3.375	2.000	.375	3/4-16
CV4	1/2 x 3/4	.5000	1.125	.825	3.375	2.000	.375	3/4-16
CV5	3/8 x 1/2	.3750	.875	.655	3.012	1.700	.250	1/2-20

SPECIAL PRODUCTS



MATERIAL
 STEEL- LOW CARBON- ZINC PLATED
 ALUMINUM- 7075- T6

STEEL JAM NUTS

RIGHT HAND	LEFT HAND	THD. SIZE	HEX SIZE
SJNR03	SJNL03	10-32	3/8
SJNR04	SJNL04	1/4-28	7/16
SJNR05	SJNL05	5/16-24	1/2
SJNR06	SJNL06	3/8-24	9/16
SJNR07	SJNL07	7/16-20	11/16
SJNR08	SJNL08	1/2-20	3/4
SJNR10	SJNL10	5/8-18	15/16
SJNR12	SJNL12	3/4-16	1-1/8
* SJNR14	SJNL14	7/8-14	1-9/32
* SJNR16	SJNL16	1 1/4-12	1-13/16
* SJNR16-1	SJNL16-1	1-14	1-3/8
* SJNR16-2	SJNL16-2	1-12	1-3/8

ALUMINUM JAM NUTS

RIGHT HAND	LEFT HAND	THD. SIZE	HEX SIZE
AJNR03	AJNL03	10-32	3/8
AJNR04	AJNL04	1/4-28	7/16
AJNR05	AJNL05	5/16-24	1/2
AJNR06	AJNL06	3/8-24	9/16
AJNR07	AJNL07	7/16-20	11/16
AJNR08	AJNL08	1/2-20	3/4
AJNR10	AJNL10	5/8-18	3/4
AJNR12	AJNL12	3/4-16	1-1/8

* NOTE: HEX SIZE MAY VARY DEPENDING ON AVAILABILITY OF MATERIAL.

RBL has several special series rod ends and spherical bearings available to suit your specifications.

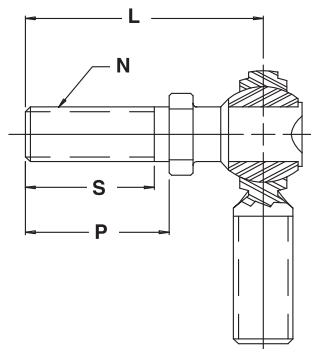
- *Aluminum
- *Stainless Steel
- *Alloy Steel
- *Chrome Polished
- *Heavy shank
- *Wear resistant
- *High Misalignment
- *Extra Strength

Special Self-Lubricating PTFE liners available in most series.

Most special series products are available with short lead times.

Consult your local Ringball office for products specifications, dimensions and load ratings.

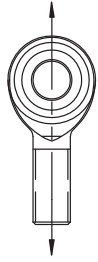
STUDED ROD ENDS



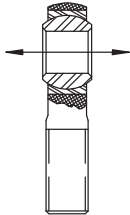
NOTE:

1. AVAILABLE ON ALL SERIES.
2. STUD MATERIAL: LOW CARBON STEEL AND ALLOY STEEL (HEAT TREATED) - ZINC PLATED.
3. STUD MISALIGNMENT APPROX. +/- 25° IN ANY DIRECTION.
4. TO SPECIFY RIGHT HAND STUD, ADD SUFFIX "Y" TO PART NUMBER.
EXAMPLE: RCM6Y
5. TO SPECIFY LEFT HAND STUD, ADD SUFFIX "YL" TO PART NUMBER.
EXAMPLE: RCM6YL
6. TO SPECIFY HEAT TREATED STUD, ADD SUFFIX "YX" TO PART NUMBER.
EXAMPLE: RCM6YX
7. FOR LOAD RATINGS WITH STUDS, PLEASE CONTACT F.K. ENGINEERING DEPARTMENT.

ROD END PART SIZE	L LGTH.	P LGTH.	S LGTH.	N THD.
	+.015 -.015	REF.	MIN.	UNF 2A
3	1.016	.500	.437	10-32
4	1.031	.562	.500	1/4-28
5	1.219	.687	.593	5/16-24
6	1.562	.906	.812	3/8-24
7	1.750	1.062	.937	7/16-20
8	2.000	1.125	1.000	1/2-20
10	2.500	1.500	1.375	5/8-18
12	3.000	1.812	1.625	3/4-16



RADIAL LOAD - A LOAD APPLIED NORMAL TO THE BEARING BORE AXIS AND PARALLEL TO THE SHANK AXIS.



AXIAL LOAD - A LOAD APPLIED ALONG THE BEARING BORE AXIS.

STATIC RADIAL LIMIT LOAD - THAT STATIC LOAD REQUIRED TO PRODUCE A SPECIFIED PERMANENT SET IN THE BEARING STRUCTURE. IT WILL VARY FOR A GIVEN SIZE AS A FUNCTION OF CONFIGURATION. IT MAY ALSO BE PIN LIMITED AS A FUNCTION OF BODY RESTRAINTS AS IN THE CASE OF ROD END BEARINGS.

STATIC RADIAL ULTIMATE LOAD - THAT LOAD THAT CAN BE APPLIED TO A BEARING WITHOUT FRACTURING THE BALL, RACE, OR ROD END EYE. THE ULTIMATE LOAD RATING IS USUALLY, BUT NOT ALWAYS 1.5 TIMES THE LIMIT LOAD.

STATIC AXIAL LIMIT LOAD - THAT LOAD THAT CAN BE APPLIED TO A BEARING TO PRODUCE A SPECIFIED PERMANENT SET IN THE BEARING STRUCTURE.

STATIC AXIAL ULTIMATE LOAD - THAT LOAD THAT CAN BE APPLIED TO A BEARING WITHOUT SEPARATING THE BALL FROM THE RACE. THE ULTIMATE LOAD RATING IS USUALLY, BUT NOT ALWAYS 1.5 TIMES THE LIMIT LOAD.

ANGLE OF MISALIGNMENT

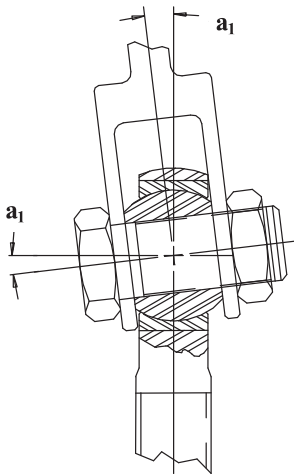


FIGURE 1
 $a_1 = \sin^{-1} \frac{W}{D} - \sin^{-1} \frac{H}{D}$

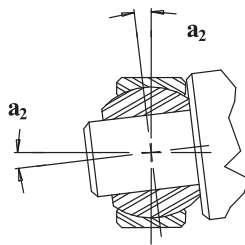


FIGURE 2
 $a_2 = \sin^{-1} \frac{W}{A} - \sin^{-1} \frac{H}{A}$

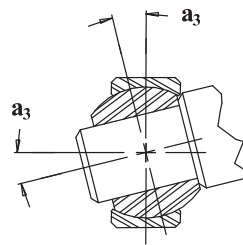


FIGURE 3
 $a_3 = \sin^{-1} \frac{W}{R} - \sin^{-1} \frac{H}{R}$

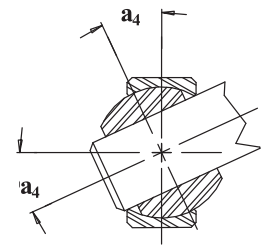


FIGURE 4
 $a_4 = \cos^{-1} \frac{B}{R} - \sin^{-1} \frac{H}{R}$

- B - Ball Bore
- M - Outer Race Chamfer
- D - Head Diameter or Outer Race Diameter
- R - Ball Diameter
- H - Housing Width
- A - $\sqrt{(D-2M)^2 + H^2}$
- W - Ball Width



ROD ENDS & SPHERICAL PLAIN BEARINGS

PART NUMBERS - DESCRIPTIONS - OPTIONS

Series	Prefix Type	Thread Left / Right	/ Size	Suffix Optional Liner	Accessories
RC	M		8	SB	Z
RM_SB / RF_SB	M= Male F= Female	Right Thread= No Entry Left Thread = L	3= 3/16" 4= 1/4" 5= 5/16" 6= 3/8" 7=7/16" 8=1/2" 10=5/8" 12=3/4" 16=1*** (1 1/4"-12 Thread) 16-1=1" Ball ID 1"-14 Thread 16-2=1"Ball ID 1"-12 Thread	SB= Sintered Bronze T=Teflon (PTFE)	Z=Grease Zerk Y= Stud (See Pg 16)
RM / RF RJM / RJF					
RCM / RCF RCM_T / RCF_T RSCM_T / RSCM_T					
RNJM / RNJF					

Spherical Bearings

Series	Size	Optional Liner
COM	8	T
COM HCOM RK RKS RKSSX	3= 3/16" 4= 1/4" 5= 5/16" 6= 3/8" 7=7/16" 8=1/2" 10=5/8" 12=3/4" 14=7/8" 16=1" 20= 1 1/4" 24= 1 1/2" 28=1 3/4" 32= 2"	T= Teflon



INTERCHANGE TABLE						
RBL	RBC	SKF	IKO	INA	TORRINGTON	CHINA
SPHERICAL PLAIN BEARING INCH						
GEZ 25 ES	B 16 L	GEZ 100 ES	SBB 16	GE 25 ZO	10 SF 16	
GEGZ 31 ES	BH 2024 L	GEZH 104 ES			12 SFH 24	
GEGZ 31 HS/K	B 2024 DSA3					
GEWZ 25 ES	B 16 EL	GEZM 100 ES				
GEZ 25 ET 2RS	B 16 LNMSS	GEZ 100 TE 2RS			10 SFL 16	
GACZ 25 S	B 16 SA	GAZ 100 SA			10 SBT 16	
SPHERICAL PLAIN BEARING METRIC						
GE 25 ES	MB 25	GE 25 ES	GE 25 ES	GE 25 DO	25 FS 42	
GEG 25 ES	MBH 2530	GEH 25 ES	GE 25 GS	GE 25 FO	25 FHS 47	
GE 25 HO 2RS	MB 25 E SS	GEM 25 ES 2RS		GE 25 HO 2RS		GEEM 25 ES 2RS
GE 25 LO		GEG 25 ES		GE 25 LO		GEEW 25 ES
GE 25 UK 2RS	MB 25 FSS	GE 25 TE 2RS	GE 25 EC 2RS	GE 25 UK 2RS		GE 25 ET 2RS
GE 25 FW 2RS				GE 25 FW 2RS		GEG 25 ET 2RS
GE 25 SX	MB 25 SA			GE 25 SX		GAC 25 S
GE 25 SW		GAC 25 F		GE 25 SW		GAC 25 T
GE 25 AX				GE 25 AX		GX 25 S
GE 25 AW		GX 10 F		GE 25 AW		GX 25 T
RBL	ALINABAL	AURORA	HEIM / BOSTON	MORSE / SPHERCO	TUTHILL	NMB / NHBB
SPHERICAL BEARINGS SPECIAL						
COM	COM-E	COM	COM	COM	COM	CBG
HCOM		HCOM		BH-LS		RSH
HIN-T		HAB-T			YSSB	ABYT
RK	VBC-G		LS	FLBG		ASL-G
RKS		COM-KH	LHA	SBGS		RS
RKS-T		COM-KHT				RS-T
RKSSX-T		NC-T	NE/LHSSE	NRR	NSSB	ABT
RKSSX-TV		NC-TG	NE-G/LHSSV V	NRRG	NSSB-V	ABT-V
RWSSX-T		WC-T	WE	WRR	WSSB	ABWT
RWSSX-TV		WC-TG	WE-G	WRRG	WSSB-V	ABWT-V

INTERCHANGE TABLE						
RBL	ALINABAL	AURORA	HEIM / BOSTON	MORSE / SPHERCO	TUTHILL	NMB / NHBB
MALE ROD ENDS						
RCM	AM-GP	CM	M-CR	CFM	MSM	AHM / LSPL
RCM-T	AM-T-GP	VCM		CFM-T	MSM-T	
RCM-Y	AM-S-GP	CM-S	M-CRY	CFM-Y	MSM-S	
RCM-Z	AM-8	CM-Z	M-CRG	CFM-N	MSM-Z	
RCM-M		CM-M			EM-M	
RCMX		RM-X5			MAX	
RM		BM	HM	TRE		
RM-SB	VM-G		HM-C	TM	MBM	
RNJM	PM		CMHD	CTMD	NM/SPM	
RJM	LCTM-X5	MM / KM	HMA		MTSM	HAMR
RJM-T		MM-T / KM-T	HME	TRE-T	MTSM-T	AMRT
RJMX	RM-X5	AM	BHM	ARE	TSMX	HAMRX
RJMX-T		RAM-T			NSMX-T	
RSM	LCRM-1-X5	XM			RM	AXM
RSMX	RM-1-X5	XAM			RMX	XAMX
RSCM-T		CM-ET			SSM-T	
RSJM-T		SM-ET	ME		SSAM-T	ART-ECR
RSRSM-T					SSHM-T	ARHT-ECR
RSCM-MT						
FEMALE ROD ENDS						
RCF	AF-GP	CW	F-CR	CFF	MSF	AHF-CSPL
RCF-T	AF-T-GP	CW-T		CFF-T	MSF-T	
RF		BW	HF	TR		
RF-SB	VF-G		HFC	TF	MBF	
RNJF	PF		CFHD	CTFD	NF/SPF	
RJF	CF	MW / KW	HFA		MTSF	HAFR
RJF-T		MW-T / KW-T	HFE	TR-T	MTSFT	AFRT
RJFX		AW		AR	TSFX	HAFRX
RSCF-T		CW-ET			SSF-T	
RSJF-T		SW-ET			SSAF-T	ART-CR
RSCF-MT						



NOTE: This interchange table shows approximate equivalency. It is not intended that all manufacturers' products are functionally interchangeable in all applications. RBL Bearings reserves the right to change specifications and other information included in this catalog without notice. All information, data, and dimension tables in this catalog have been carefully compiled and thoroughly checked. However, no responsibility for possible errors or omissions can be assumed.

WARNING!

The manufacturer can not determine all applications of its products. It is up to the customer to determine a suitable part for their application. For assistance, please contact your local Ringball office



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