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THRUST BEARINGS

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General Information

THRUST BEARINGS

PRODUCT DESCRIPTION

INA Ball Thrust Bearings

- Available in a wide collection of ISO, DIN and popular inch and metric series.
- Available as banded, 3 piece grooved race, 3 piece flat race and self aligning series.
- Races are made from through hardening and case hardening steels, selective sizes available from stainless steel.
- Cage materials include phenolic, steel, plastic, aluminum and bronze.

INA Roller Thrust Bearings

- Available in a wide collection of ISO, DIN and popular inch and metric series.
- Available as complete bearings or cage and roller assemblies and washer components.
- Races are made from through hardening and case hardening steels.
- Cage materials include phenolic, steel, plastic, aluminum and bronze.

INA Double Direction Thrust Bearings

- Available in a wide collection of ISO, DIN and popular metric series.
- Available as complete bearings in ball series or component groups of cage and roller assemblies and ZS washers.
- Races are made from through hardening and case hardening steels.

INA Self Aligning Thrust Bearings

- Available in a wide collection of ISO, DIN and popular inch and metric series.
- Available as complete bearings with the self aligning seats sold separately.
- Races are made from through hardening and case hardening steels.

Part Number Identification

THRUST BEARINGS

THRUST BEARINGS METRIC SERIES

900, 1000, 2900, 3900, 51100,
1900, 500, 3700, 4100, 800

29

10

SERIES	
900	Medium Series, 3 Piece Ball
1000	Heavy Series, 3 Piece Ball
2900	Light Series, 3 Piece Ball
3900	Medium Series, 3 Piece Ball
51100	Light Series, 3 Piece Ball
1900	Medium Series, Double Direction Ball
500	Heavy Series, Double Direction, Self Aligning
3700	Medium Series, Double Direction, Self Aligning
4100	Medium Series, Double Direction, Self Aligning
800	Medium Series, Double Direction Ball

SIZE
Shaft per ISO Standards, in mm
/6, /8 – 6, 8 mm
00, 01, 02, 03 = 10, 12, 15, 17 mm
04 – 10 = Number x 5

METRIC ISO SERIES 5 DIGIT NUMBERS

5

1

1

10

5	Ball Thrust Bearing
6	Radial Ball Bearing
7	Angular Contact Bearing
8	Roller Thrust Bearing

DIAMETER SERIES	
1, 2, 3, 4	

WIDTH SERIES	
8, 0, 1, 2, 3, 4, 5, 6, 9	

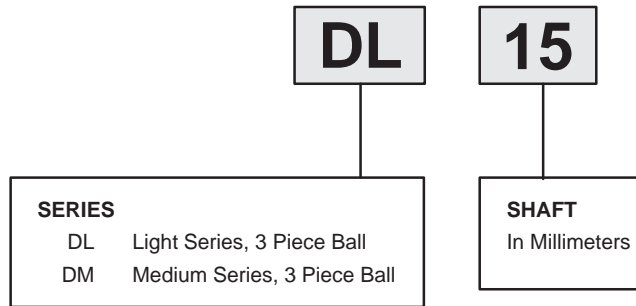
00	10 mm Shaft
01	12 mm Shaft
02	15 mm Shaft
03	17 mm Shaft
04<	1/5 Shaft In mm
/XXX	Shaft In mm

Part Number Identification

THRUST BEARINGS

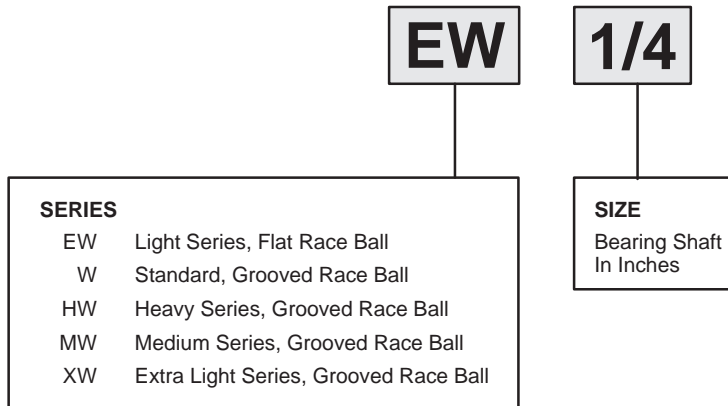
ANDREWS BALL THRUST BEARINGS METRIC SERIES

DL, DM



ANDREWS BALL THRUST BEARINGS INCH SERIES

EW, W, HW, MW, XW

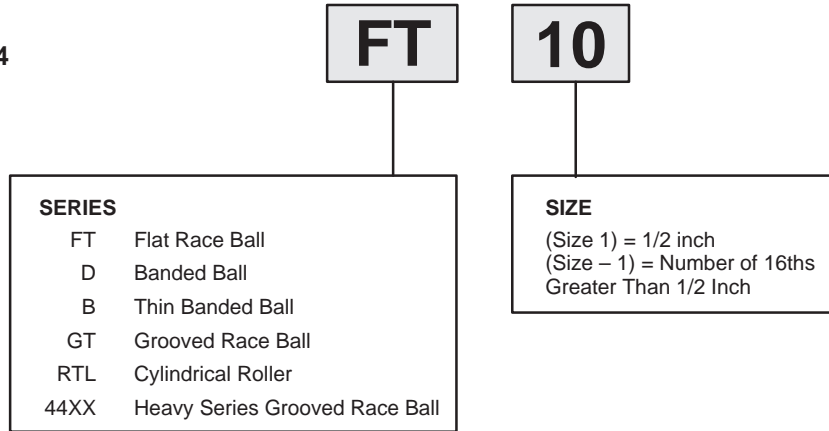


Part Number Identification

THRUST BEARINGS

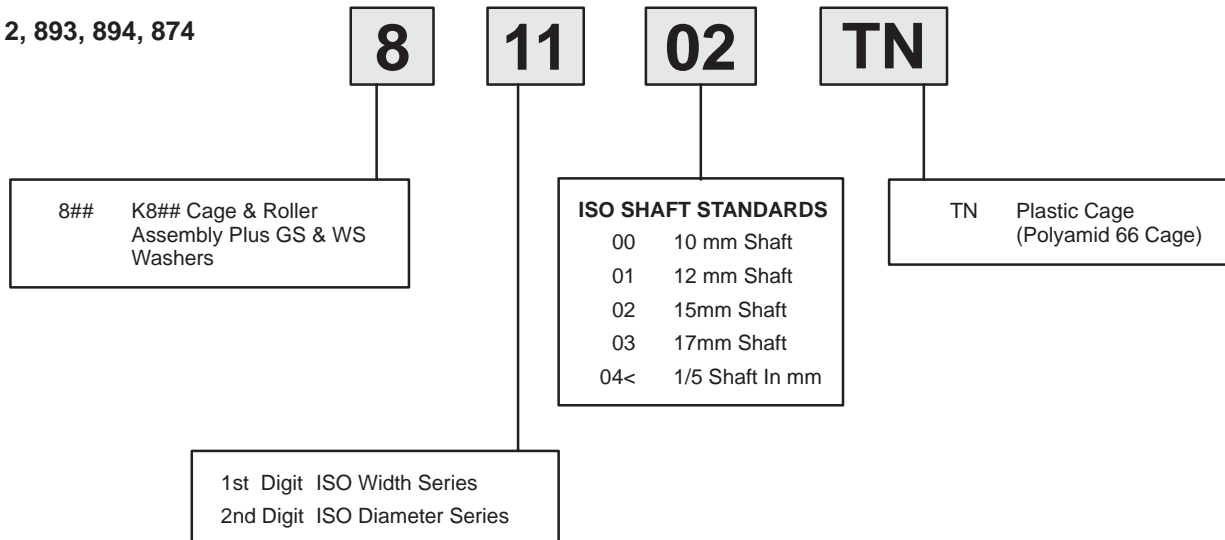
ANDREWS THRUST BEARINGS INCH SERIES

FT, D, B, GT, RTL, 44



AXIAL CYLINDRICAL BEARING METRIC SERIES

811, 812, 893, 894, 874

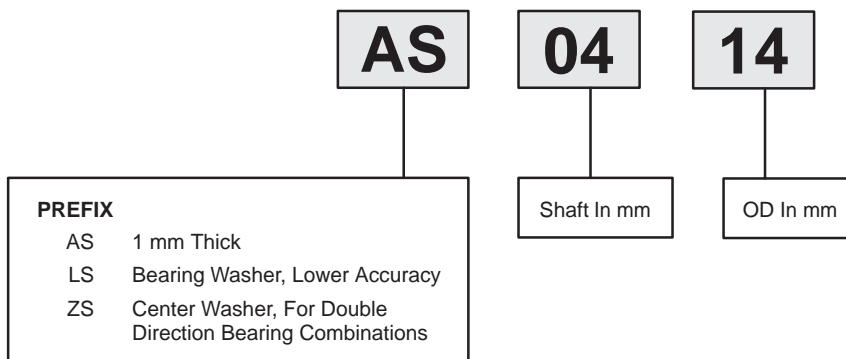


Part Number Identification

THRUST BEARINGS

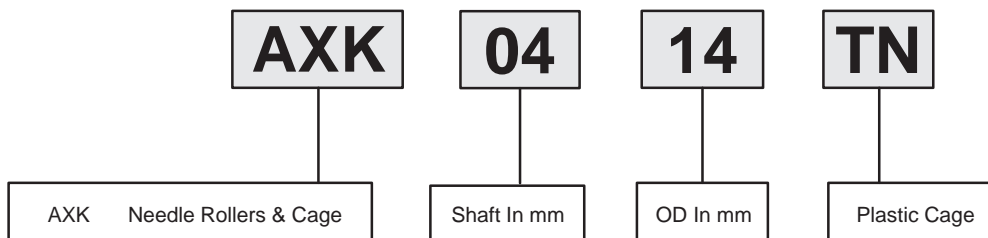
BEARING WASHERS METRIC SERIES

AS, LS, ZS



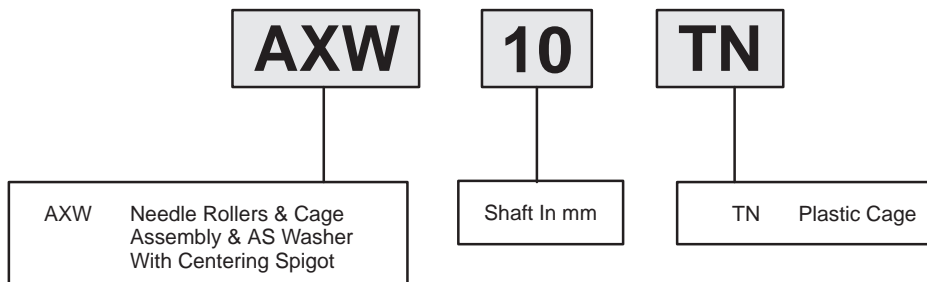
AXIAL NEEDLE CAGE AND ROLLER ASSEMBLIES METRIC SERIES

AXK



PILOTED AXIAL NEEDLE / CYLINDRICAL BEARINGS METRIC SERIES

AXW

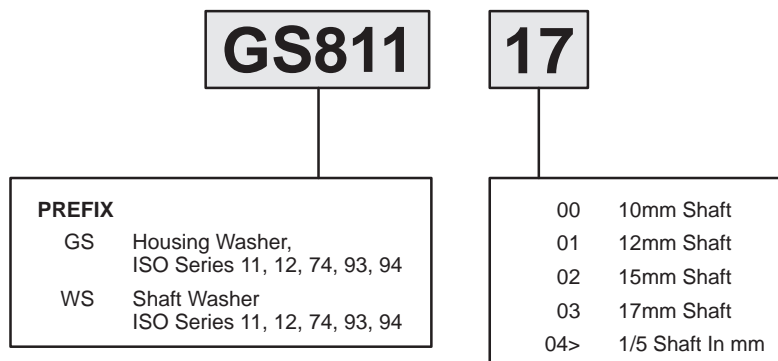


Part Number Identification

THRUST BEARINGS

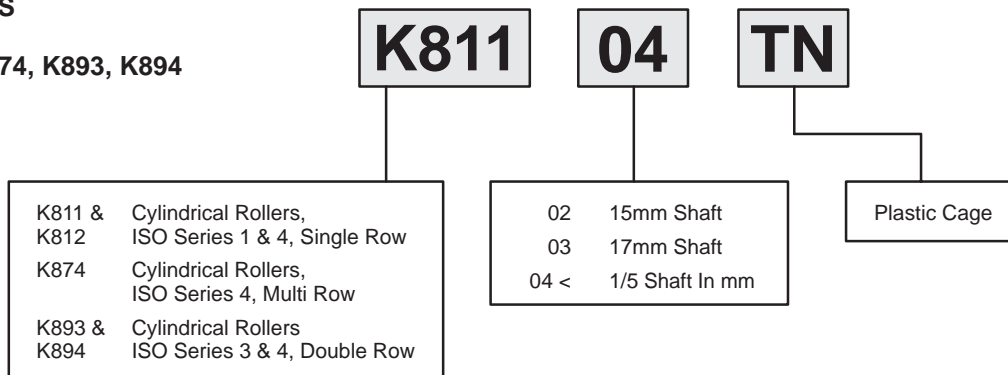
BEARING WASHERS METRIC SERIES

GS, WS



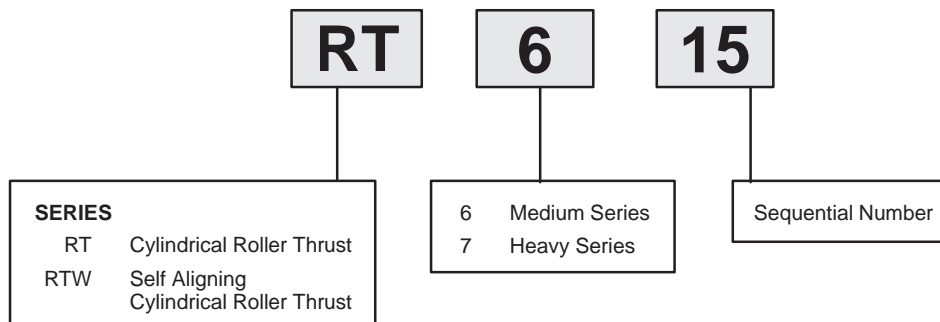
AXIAL NEEDLE / CYLINDRICAL CAGE AND ROLLER ASSEMBLIES METRIC SERIES

K811, K812, K874, K893, K894



ROLLER THRUST INCH SERIES

RT, RTW

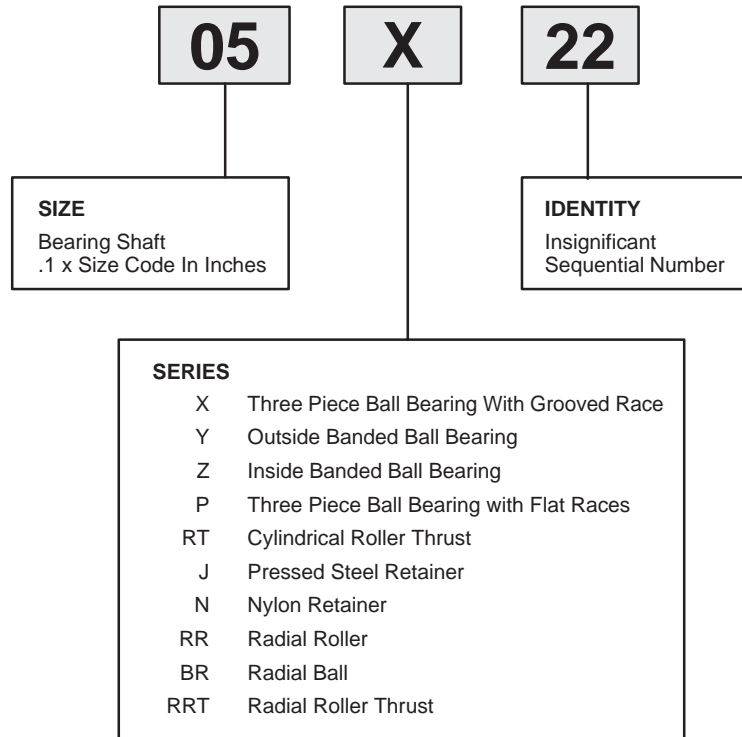


Part Number Identification

THRUST BEARINGS

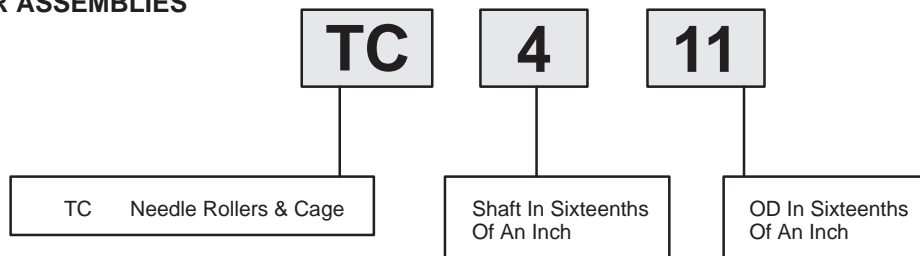
SPECIAL DIMENSION ANDREWS THRUST BEARINGS INCH SERIES

X, Y, Z, P, RT, J, N,
RR, BR, RRT



AXIAL NEEDLE / CYLINDRICAL CAGE AND ROLLER ASSEMBLIES INCH SERIES

TC

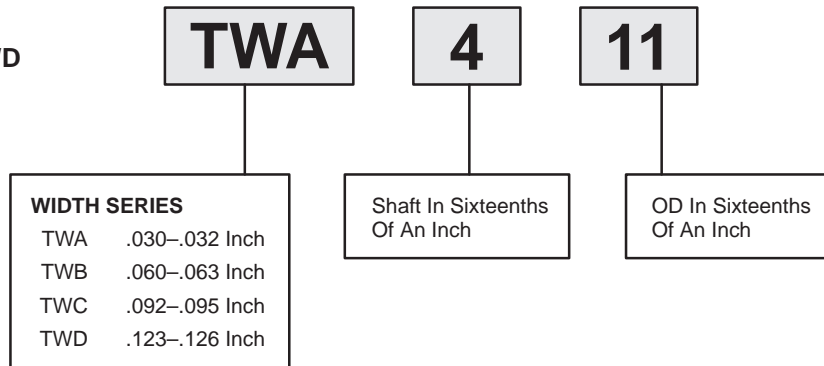


Part Number Identification

THRUST BEARINGS

BEARING WASHERS INCH SERIES

TWA, TWB, TWC, TWD



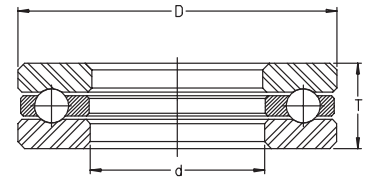
Thrust Bearing Selector

PART NUMBER AND SIZE

- Ball and roller thrust bearings
- Sorted by shaft dimension
- Series specific details can be found on subsequent pages. Please refer to Section Contents or Index for the correct page numbers.



RT7 SHOWN FOR DIMENSIONAL REFERENCE



GT SHOWN FOR DIMENSIONAL REFERENCE

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 For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

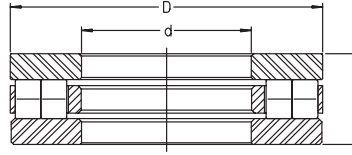
PART NUMBER	SHAFT		OD		WIDTH	
	inch	mm	inch	mm	inch	mm
00Z22	0.000	0	2.250	57.15	1.000	25.4
01X03	0.161	4.089	0.462	11.735	0.283	7.188
01Y04	0.187	4.75	0.500	12.7	0.225	5.715
FT01	0.188	4.763	0.437	11.110	0.193	4.910
FT02	0.188	4.763	0.438	11.112	0.188	4.762
FT03	0.188	4.763	0.531	13.493	0.188	4.762
FT04	0.188	4.763	0.938	23.825	0.375	9.525
02X10	0.197	5.004	0.735	18.669	0.594	15.088
02X09	0.199	5.055	0.613	15.57	0.443	11.252
02Y10	0.250	6.35	0.495	12.57	0.255	6.48
FT05	0.250	6.350	0.563	14.287	0.219	5.556
02P25	0.250	6.35	0.563	14.3	0.224	5.69
2004	0.250	6.350	0.625	15.875	0.438	11.113
02X12	0.250	6.35	0.656	16.66	0.230	5.85
EW-1/4	0.250	6.350	0.656	16.662	0.250	6.350
02P12	0.250	6.35	0.666	16.916	0.260	6.604
FT06	0.250	6.350	0.813	20.650	0.375	9.530
W-1/4	0.250	6.350	0.813	20.650	0.375	9.530
FT07	0.250	6.350	0.844	21.438	0.375	9.525
02PS16	0.252	6.4	0.563	14.288	0.223	5.67
03Y01	0.312	7.925	0.515	13.081	0.255	6.477
FC67686	0.313	7.938	0.625	15.875	0.204	5.18
FT08	0.313	7.938	0.625	15.875	0.250	6.350
2044	0.313	7.938	0.675	17.145	0.281	7.144
EW-5/16	0.313	7.938	0.750	19.050	0.250	6.350
FT09	0.313	7.938	0.844	21.431	0.375	9.525
W-5/16	0.313	7.938	1.000	25.400	0.531	13.490
03Y04	0.313	7.95	0.615	15.62	0.318	8.08
03Y49	0.314	7.976	0.515	13.081	0.109	2.769
03Y51	0.316	8.026	0.682	17.323	0.315	8.001
03Y03	0.316	8.03	0.688	17.48	0.313	7.95
03X16	0.329	8.357	1.192	30.277	0.801	20.345
00Z27A	0.358	9.09	1.680	42.67	0.635	16.13
03Y50	0.375	9.525	0.600	15.24	0.068	1.724
FT010	0.375	9.525	0.688	17.480	0.281	7.144
03Y12	0.375	9.525	0.750	19.05	0.313	7.938
EW-3/8	0.375	9.525	0.813	20.650	0.250	6.350
W-3/8	0.375	9.525	1.000	25.400	0.530	13.460
FT011	0.375	9.525	1.031	26.190	0.500	12.700
FT012	0.375	9.525	1.094	27.790	0.500	12.700
HW-3/8	0.375	9.525	1.125	28.575	0.625	15.875
03Y47	0.375	9.525	1.202	30.53	0.500	12.7
03Y21	0.376	9.55	0.753	19.13	0.314	7.97
03Y13	0.376	9.563	0.600	15.24	0.187	4.75
03Y40	0.378	9.601	0.943	23.952	0.313	7.938
03Y07	0.380	9.652	0.640	16.256	0.380	9.652
03Y10	0.380	9.652	0.671	17.043	0.380	9.652



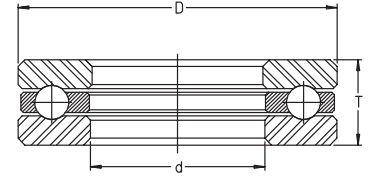
Thrust Bearing Selector

PART NUMBER AND SIZE

- Ball and roller thrust bearings
- Sorted by shaft dimension
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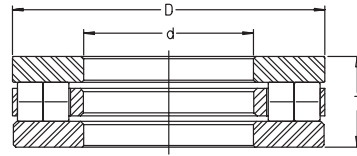
PART NUMBER	SHAFT		OD		WIDTH	
	inch	mm	inch	mm	inch	mm
51100	0.394	10.000	0.945	24.000	0.354	9.000
900	0.394	10.000	0.984	25.000	0.472	12.000
4100	0.394	10.000	0.984	25.000	0.556	14.122
51200	0.394	10.000	1.024	26.000	0.433	11.000
2900	0.394	10.000	1.024	26.000	0.472	12.000
04Y09	0.406	10.31	1.057	26.85	0.370	9.39
2003	0.438	11.113	0.750	19.050	0.250	6.350
FT013	0.438	11.113	0.813	20.650	0.313	7.950
2085	0.438	11.113	0.875	22.225	0.250	6.350
04Y07	0.438	11.113	0.890	22.606	0.438	11.113
2063	0.438	11.113	0.937	23.800	0.500	12.700
FT014	0.438	11.113	1.094	27.788	0.500	12.700
W-7/16	0.438	11.113	1.281	32.540	0.625	15.875
04Y01	0.441	11.201	0.813	20.638	0.251	6.375
DL12	0.472	12.000	0.906	23.000	0.354	9.000
51101	0.472	12.000	1.024	26.000	0.354	9.000
51201	0.472	12.000	1.102	28.000	0.433	11.000
2901	0.472	12.000	1.102	28.000	0.472	12.000
05Y04	0.499	12.675	0.890	22.606	0.442	11.227
05Y03	0.499	12.687	0.765	19.431	0.442	11.227
2002	0.500	12.700	0.750	19.050	0.438	11.113
FT015	0.500	12.700	0.875	22.225	0.250	6.350
FT016	0.500	12.700	0.875	22.225	0.375	9.525
2097	0.500	12.700	0.875	22.225	0.563	14.288
EW-1/2	0.500	12.700	0.969	24.610	0.250	6.350
05Y05	0.500	12.7	0.990	25.146	0.505	12.827
05X04	0.500	12.7	0.995	25.273	0.380	9.652
2458	0.500	12.700	1.062	26.975	0.312	7.925
05Y06	0.500	12.7	1.122	28.5	0.500	12.7
05X44	0.500	12.7	1.187	30.15	0.442	11.227
B1	0.500	12.700	1.219	30.956	0.625	15.880
D1	0.500	12.700	1.219	30.963	0.563	14.300
FT1	0.500	12.700	1.219	30.963	0.563	14.300
GT1	0.500	12.700	1.219	30.963	0.563	14.300
W-1/2	0.500	12.700	1.281	32.540	0.625	15.875
HW-1/2	0.500	12.700	1.313	33.350	0.719	18.263
4401	0.500	12.700	1.438	36.513	0.625	15.875
05Y60	0.503	12.776	1.234	31.344	0.564	14.326
05X101	0.504	12.8	0.969	24.61	0.230	5.84
05Y11	0.531	13.48	0.890	22.606	0.443	11.24
05Y74	0.533	13.538	0.800	20.32	0.187	4.75
05Y18	0.533	13.538	0.810	20.574	0.187	4.75
F-200284	0.555	14.1	1.451	36.85	0.435	11.05
05X60	0.560	14.224	1.224	31.09	0.385	9.779
B2	0.563	14.288	1.219	30.960	0.625	15.880
D2	0.563	14.288	1.219	30.963	0.563	14.300
FT2	0.563	14.288	1.219	30.963	0.563	14.300



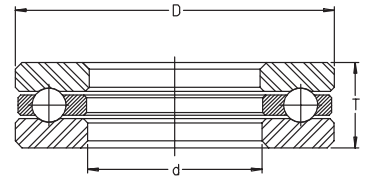
Thrust Bearing Selector

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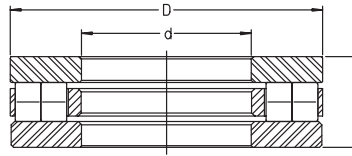
PART NUMBER	SHAFT		OD		WIDTH	
	inch	mm	inch	mm	inch	mm
GT2	0.563	14.288	1.219	30.963	0.563	14.300
W-9/16	0.563	14.288	1.406	35.710	0.625	15.875
4402	0.563	14.288	1.438	36.530	0.625	15.875
05Y12	0.564	14.326	1.015	25.781	0.569	14.453
05XS12	0.564	14.326	1.276	32.41	0.505	12.827
05X67	0.590	14.991	1.378	35.001	0.556	14.127
DL15	0.591	15.000	1.024	26.000	0.354	9.000
51102	0.591	15.000	1.102	28.000	0.354	9.000
811 02 TN	0.591	15.000	1.102	28.000	0.354	9.000
FC69992	0.591	15	1.102	28	0.354	9
2902	0.591	15.000	1.221	31.000	0.472	12.000
51202	0.591	15.000	1.260	32.000	0.472	12.000
902	0.591	15.000	1.378	35.000	0.551	14.000
4102	0.591	15.000	1.378	35.000	0.591	15.000
502	0.591	15.000	1.378	35.000	0.787	20.000
06X77	0.595	15.113	1.028	26.111	0.359	9.119
06Y42	0.625	15.875	0.995	25.273	0.442	11.227
2006	0.625	15.875	1.000	25.400	0.500	12.700
EW-5/8	0.625	15.875	1.094	27.788	0.281	7.140
2132	0.625	15.875	1.125	28.575	0.563	14.288
2043	0.625	15.875	1.250	31.750	0.563	14.288
D3	0.625	15.875	1.344	34.138	0.563	14.300
FT3	0.625	15.875	1.344	34.138	0.563	14.300
GT3	0.625	15.875	1.344	34.138	0.563	14.300
B3	0.625	15.875	1.344	34.138	0.625	15.875
W-5/8	0.625	15.875	1.406	35.710	0.625	15.875
4403	0.625	15.875	1.563	39.700	0.625	15.875
06Y12	0.627	15.926	0.917	23.29	0.187	4.75
06Y60	0.627	15.926	0.917	23.292	0.187	4.75
06X63	0.627	15.926	0.992	25.197	0.500	12.7
06XS07	0.627	15.926	1.276	32.41	0.505	12.83
06Y33	0.627	15.926	1.421	36.093	0.458	11.633
06Y49	0.628	15.951	1.354	34.391	0.583	14.81
06Y36	0.629	15.975	1.000	25.4	0.375	9.525
06X65	0.629	15.975	1.406	35.712	0.630	16.01
06P06	0.629	15.977	1.094	27.781	0.286	7.264
06X30	0.630	16.002	1.625	41.275	0.925	23.5
06Y05	0.656	16.65	1.140	28.956	0.500	12.7
06X62	0.659	16.738	1.378	35	0.636	16.154
DL17	0.669	17.000	1.102	28.000	0.374	9.500
51103	0.669	17.000	1.181	30.000	0.354	9.000
811 03 TN	0.669	17.000	1.181	30.000	0.354	9.000
51203	0.669	17.000	1.378	35.000	0.472	12.000
FC66992.1	0.669	17	1.457	37	0.276	7
FC66992.5	0.669	17	1.457	37	0.548	13.92
503	0.669	17.000	1.457	37.000	0.787	20.000
FC68404	0.673	17.1	1.461	37.1	0.548	13.92



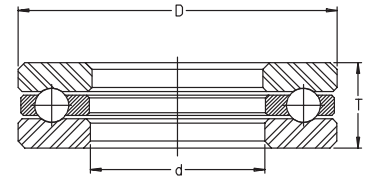
Thrust Bearing Selector

PART NUMBER AND SIZE

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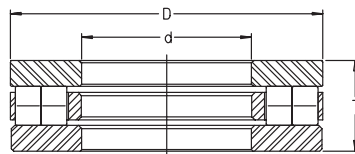
PART NUMBER	SHAFT		OD		WIDTH	
	inch	mm	inch	mm	inch	mm
FC68404.1	0.673	17.1	1.461	37.1	0.548	13.92
FC69726	0.673	17.1	1.461	37.1	0.548	13.92
D4	0.688	17.463	1.344	34.138	0.563	14.300
FT4	0.688	17.463	1.344	34.138	0.563	14.300
GT4	0.688	17.463	1.344	34.138	0.563	14.300
B4	0.688	17.463	1.344	34.140	0.625	15.880
4404	0.688	17.463	1.563	39.700	0.625	15.875
2903	0.709	18.000	1.378	35.000	0.472	12.000
07Y08	0.735	18.669	1.406	35.712	0.458	11.633
2009	0.750	19.050	1.250	31.750	0.438	11.113
2005	0.750	19.050	1.250	31.750	0.563	14.288
EW-3/4	0.750	19.050	1.313	33.350	0.281	7.140
D5	0.750	19.050	1.469	37.313	0.563	14.300
FT5	0.750	19.050	1.469	37.313	0.563	14.300
GT5	0.750	19.050	1.469	37.313	0.563	14.300
B5	0.750	19.050	1.469	37.313	0.625	15.880
W-3/4	0.750	19.050	1.531	38.890	0.625	15.875
4405	0.750	19.050	1.688	42.880	0.630	16.000
HW-3/4	0.750	19.050	1.813	46.050	0.875	22.225
07Y03	0.753	19.126	1.125	28.575	0.625	15.875
07Y51	0.753	19.126	1.469	37.306	0.568	14.427
07X78	0.753	19.127	1.250	31.75	0.442	11.23
07P21	0.754	19.152	1.313	33.338	0.286	7.264
07X51	0.781	19.837	1.783	45.293	1.041	26.441
51104	0.787	20.000	1.378	35.000	0.394	10.000
811 04 TN	0.787	20.000	1.378	35.000	0.394	10.000
2904	0.787	20.000	1.457	37.000	0.472	12.000
DL20	0.787	20.000	1.535	39.000	0.520	13.200
51204	0.787	20.000	1.575	40.000	0.551	14.000
904	0.787	20.000	1.575	40.000	0.551	14.000
4104	0.787	20.000	1.575	40.000	0.630	16.000
1004	0.787	20.000	1.772	45.000	0.906	23.000
504	0.787	20.000	1.772	45.000	0.945	24.000
2007	0.813	20.638	1.250	31.750	0.500	12.700
B6	0.813	20.638	1.469	37.310	0.625	15.880
D6	0.813	20.638	1.469	37.313	0.563	14.300
FT6	0.813	20.638	1.469	37.313	0.563	14.300
GT6	0.813	20.638	1.469	37.313	0.563	14.300
08Y24	0.813	20.638	1.483	37.67	0.575	14.6
4406	0.813	20.638	1.688	42.880	0.625	15.875
08Y04	0.813	20.66	1.265	32.131	0.189	4.813
08Y42	0.814	20.68	1.093	27.76	0.250	6.35
08Y14	0.829	21.057	1.093	27.762	0.250	6.35
08Y23	0.843	21.4	1.562	39.675	0.501	12.725
08Y06	0.843	21.41	1.265	32.131	0.505	12.827
08Y07	0.843	21.41	1.390	35.306	0.505	12.827
08X12	0.844	21.438	1.625	41.275	1.000	25.4



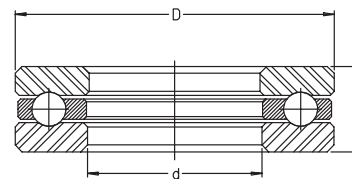
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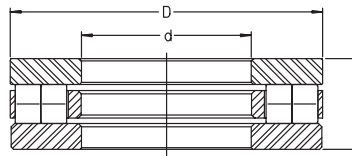
PART NUMBER	SHAFT		OD		WIDTH	
	inch	mm	inch	mm	inch	mm
08Y32	0.847	21.514	1.375	34.925	0.500	12.7
2904-1/2	0.866	22.000	1.654	42.000	0.551	14.000
2011	0.875	22.225	1.375	34.925	0.563	14.288
EW-7/8	0.875	22.225	1.500	38.100	0.375	9.525
W-7/8	0.875	22.225	1.656	42.060	0.625	15.875
D7	0.875	22.225	1.844	46.838	0.625	15.875
FT7	0.875	22.225	1.844	46.838	0.625	15.875
GT7	0.875	22.225	1.844	46.838	0.625	15.875
RTL7	0.875	22.225	1.844	46.838	0.625	15.875
B7	0.875	22.225	1.844	46.840	0.750	19.050
4407	0.875	22.225	1.938	49.230	0.750	19.050
HW-7/8	0.875	22.225	2.063	52.400	1.000	25.400
08X25	0.875	22.225	2.563	65.088	0.781	19.844
08Y38	0.878	22.301	1.515	38.481	0.380	9.652
2001	0.938	23.813	1.500	38.100	0.500	12.700
D8	0.938	23.813	1.844	46.838	0.625	15.875
FT8	0.938	23.813	1.844	46.838	0.625	15.875
GT8	0.938	23.813	1.844	46.838	0.625	15.875
RTL8	0.938	23.813	1.844	46.838	0.625	15.875
B8	0.938	23.813	1.844	46.838	0.750	19.050
4408	0.938	23.813	1.938	49.230	0.750	19.050
FC67327	0.945	24	1.496	38	0.143	3.62
FC67327.3	0.945	24	1.496	38	0.143	3.62
51105	0.984	25.000	1.654	42.000	0.433	11.000
811 05 TN	0.984	25.000	1.654	42.000	0.433	11.000
2905	0.984	25.000	1.772	45.000	0.551	14.000
DL25	0.984	25.000	1.772	45.000	0.551	14.000
51205	0.984	25.000	1.850	47.000	0.591	15.000
F-233454.4	0.984	25	1.860	47.25	0.182	4.62
905	0.984	25.000	1.890	48.000	0.610	15.500
4105	0.984	25.000	1.890	48.000	0.669	17.000
505	0.984	25.000	2.284	58.000	1.181	30.000
09XS28	0.990	25.146	1.772	45.009	0.553	14.046
10Y25	1.000	25.4	1.500	38.1	0.625	15.875
2008	1.000	25.400	1.500	38.100	0.625	15.875
FC69708.1	1.000	25.4	1.613	40.97	0.228	5.79
2087	1.000	25.400	1.625	41.275	0.563	14.288
EW1	1.000	25.400	1.625	41.280	0.375	9.530
2010	1.000	25.400	1.750	44.450	0.563	14.288
W1	1.000	25.400	1.781	45.240	0.625	15.875
F-216064.3	1.000	25.4	1.925	48.9	0.197	5
B9	1.000	25.400	1.969	50.010	0.750	19.050
D9	1.000	25.400	1.969	50.013	0.625	15.875
FT9	1.000	25.400	1.969	50.013	0.625	15.875
GT9	1.000	25.400	1.969	50.013	0.625	15.875
RTL9	1.000	25.400	1.969	50.013	0.625	15.875
4409	1.000	25.400	2.063	52.400	0.750	19.050



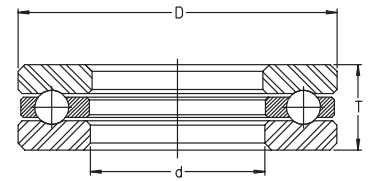
Thrust Bearing Selector

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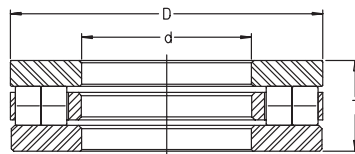
PART NUMBER	SHAFT		OD		WIDTH	
	inch	mm	inch	mm	inch	mm
RT601	1.000	25.400	2.126	53.988	0.813	20.638
RTW601	1.000	25.400	2.251	57.168	1.062	26.975
HW1	1.000	25.400	2.438	61.930	1.125	28.575
10Y03	1.031	26.18	1.640	41.656	0.630	16.002
RTW602	1.060	26.924	2.251	57.168	1.062	26.975
2209	1.063	26.988	1.687	42.850	0.625	15.875
B10	1.063	26.988	1.969	50.012	0.750	19.050
D10	1.063	26.988	1.969	50.013	0.625	15.875
FT10	1.063	26.988	1.969	50.013	0.625	15.875
GT10	1.063	26.988	1.969	50.013	0.625	15.875
RTL10	1.063	26.988	1.969	50.013	0.625	15.875
4410	1.063	26.988	2.063	52.400	0.750	19.050
RT602	1.063	26.988	2.126	53.988	0.812	20.625
10XS18	1.064	27.038	1.875	47.63	0.500	12.7
EW1-1/8	1.125	28.575	1.750	44.450	0.375	9.530
2024	1.125	28.575	1.875	47.625	0.563	14.288
W1-1/8	1.125	28.575	1.906	48.410	0.625	15.875
11Y01	1.125	28.575	1.995	50.673	0.627	15.926
RTL11	1.125	28.575	2.094	53.181	0.625	15.875
D11	1.125	28.575	2.094	53.188	0.625	15.875
FT11	1.125	28.575	2.094	53.188	0.625	15.875
GT11	1.125	28.575	2.094	53.188	0.625	15.875
B11	1.125	28.575	2.094	53.190	0.750	19.050
4411	1.125	28.575	2.188	55.580	0.750	19.050
11RT03	1.125	28.575	2.250	57.15	0.752	19.1
RT603	1.125	28.575	2.250	57.150	0.813	20.638
RTW603	1.125	28.575	2.375	60.325	1.062	26.975
11RT04	1.127	28.626	2.625	66.675	0.752	19.1
11XS10	1.129	28.677	1.750	44.45	0.380	9.652
11X09	1.135	28.829	2.175	55.245	1.062	26.975
11X58	1.181	30	1.850	47	0.433	11
51106	1.181	30.000	1.850	47.000	0.433	11.000
811 06 TN	1.181	30.000	1.850	47.000	0.433	11.000
2906	1.181	30.000	1.969	50.000	0.551	14.000
51206	1.181	30.000	2.047	52.000	0.630	16.000
812 06 TN	1.181	30.000	2.047	52.000	0.630	16.000
906	1.181	30.000	2.087	53.000	0.610	15.500
DL30	1.181	30.000	2.087	53.000	0.610	15.500
4106	1.181	30.000	2.087	53.000	0.709	18.000
893 06 TN	1.181	30.000	2.362	60.000	0.709	18.000
3906	1.181	30.000	2.362	60.000	0.748	19.000
1908	1.181	30.000	2.520	64.000	1.260	32
808	1.181	30.000	2.520	64.000	1.496	38.000
11X04	1.181	30	2.717	69	1.654	42
11YT127E	1.185	30.099	2.635	66.929	0.766	19.456
2283	1.188	30.163	1.938	49.212	0.531	13.494
RTL12	1.188	30.163	2.094	53.181	0.625	15.875



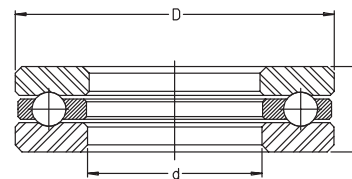
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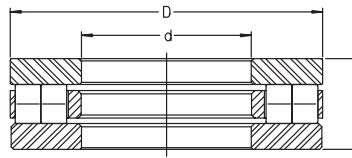
PART NUMBER	SHAFT		OD		WIDTH	
	inch	mm	inch	mm	inch	mm
D12	1.188	30.163	2.094	53.188	0.625	15.875
FT12	1.188	30.163	2.094	53.188	0.625	15.875
GT12	1.188	30.163	2.094	53.188	0.625	15.875
B12	1.188	30.163	2.094	53.190	0.750	19.050
4412	1.188	30.163	2.188	55.580	0.750	19.050
RT604	1.188	30.163	2.250	57.150	0.813	20.637
RTW604	1.188	30.163	2.375	60.325	1.062	26.975
2096	1.250	31.750	2.000	50.800	0.813	20.638
EW1-1/4	1.250	31.750	2.063	52.400	0.500	12.700
W1-1/4	1.250	31.750	2.094	53.190	0.719	18.260
FC68496.1	1.250	31.75	2.120	53.848	0.184	4.67
4413	1.250	31.750	2.313	58.750	0.750	19.050
RTL13	1.250	31.750	2.344	59.531	0.625	15.875
D13	1.250	31.750	2.344	59.538	0.625	15.875
FT13	1.250	31.750	2.344	59.538	0.625	15.875
GT13	1.250	31.750	2.344	59.538	0.625	15.875
B13	1.250	31.750	2.344	59.538	0.750	19.050
RT605	1.250	31.750	2.375	60.325	0.813	20.637
RTW605	1.250	31.750	2.500	63.500	1.063	26.988
12Y23	1.250	31.75	2.750	69.85	0.813	20.638
12YT127J	1.256	31.902	2.635	66.929	0.766	19.456
FC68495	1.275	32.385	2.162	54.915	0.193	4.9
12Y01	1.280	32.512	1.875	47.625	1.000	25.4
12Y03	1.281	32.542	2.140	54.356	1.005	25.527
F-223428.1	1.299	33	2.047	52	0.161	4.1
13YS19SS	1.299	33	2.484	63.09	0.630	16.01
FC67909	1.306	33.18	1.925	48.9	0.143	3.62
13X11	1.313	33.338	2.254	57.25	0.688	17.463
13X49	1.313	33.338	2.254	57.252	0.689	17.488
4414	1.313	33.338	2.313	58.750	0.750	19.050
RTL14	1.313	33.338	2.344	59.531	0.625	15.875
D14	1.313	33.338	2.344	59.538	0.625	15.875
FT14	1.313	33.338	2.344	59.538	0.625	15.875
GT14	1.313	33.338	2.344	59.538	0.625	15.875
B14	1.313	33.338	2.344	59.540	0.750	19.050
RT606	1.313	33.338	2.375	60.325	0.813	20.637
RTW606	1.313	33.338	2.500	63.500	1.062	26.975
13Y18	1.346	34.188	2.150	54.61	0.585	14.86
FC67945	1.375	34.925	2.148	54.55	0.330	8.38
EW1-3/8	1.375	34.925	2.188	55.575	0.500	12.700
W1-3/8	1.375	34.925	2.219	56.360	0.719	18.260
4415	1.375	34.925	2.438	61.930	0.750	19.050
D15	1.375	34.925	2.469	62.713	0.625	15.875
FT15	1.375	34.925	2.469	62.713	0.625	15.875
GT15	1.375	34.925	2.469	62.713	0.625	15.875
RTL15	1.375	34.925	2.469	62.713	0.625	15.875
B15	1.375	34.925	2.469	62.713	0.750	19.050



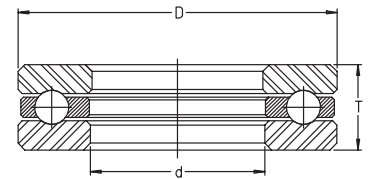
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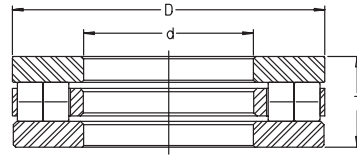
PART NUMBER	SHAFT		OD		WIDTH	
	inch	mm	inch	mm	inch	mm
RT607	1.375	34.925	2.875	73.025	0.813	20.637
RTW607	1.375	34.925	3.000	76.200	1.062	26.975
51107X	1.378	35.000	2.047	52.000	0.472	12.000
811 07 TN	1.378	35.000	2.047	52.000	0.472	12.000
51107	1.378	35.000	2.087	53.000	0.472	12.000
2907	1.378	35.000	2.165	55.000	0.630	16.000
DL35	1.378	35.000	2.244	57.000	0.681	17.300
51207	1.378	35.000	2.441	62.000	0.709	18.000
812 07 TN	1.378	35.000	2.441	62.000	0.709	18.000
907	1.378	35.000	2.441	62.000	0.709	18.000
4107	1.378	35.000	2.441	62.000	0.827	21.000
893 07 TN	1.378	35.000	2.677	68.000	0.787	20.000
3907	1.378	35.000	2.677	68.000	0.906	23.000
DM35	1.378	35.000	2.677	68.000	0.965	24.500
1007	1.378	35.000	2.835	72.000	1.457	37.000
4416	1.438	36.513	2.438	61.930	0.750	19.050
B16	1.438	36.513	2.469	62.710	0.750	19.050
FT16	1.438	36.513	2.469	62.713	0.625	15.875
RTL16	1.438	36.513	2.469	62.713	0.625	15.875
D16	1.438	36.513	2.469	65.888	0.625	15.875
GT16	1.438	36.513	2.469	65.888	0.625	15.875
RT608	1.438	36.513	2.875	73.025	0.812	20.625
RTW608	1.438	36.513	3.000	76.200	1.602	40.691
2092	1.438	36.513	3.250	82.550	1.313	33.338
FC68417	1.448	36.78	2.047	52	0.170	4.32
FC67907	1.455	36.95	2.126	54	0.143	3.62
FC68168	1.496	38	2.480	63	0.197	5
EW1-1/2	1.500	38.100	2.313	58.750	0.500	12.700
W1-1/2	1.500	38.100	2.344	59.540	0.719	18.260
4417	1.500	38.100	2.563	65.100	0.750	19.050
RTL17	1.500	38.100	2.594	65.881	0.625	15.875
D17	1.500	38.100	2.594	65.888	0.625	15.875
FT17	1.500	38.100	2.594	65.888	0.625	15.875
GT17	1.500	38.100	2.594	65.888	0.625	15.875
B17	1.500	38.100	2.594	65.888	0.750	19.050
MW1-1/2	1.500	38.100	2.875	73.025	1.125	28.575
RT609	1.500	38.100	3.000	76.200	0.813	20.637
RTW609	1.500	38.100	3.125	79.375	1.062	26.975
15X55	1.535	38.994	2.438	61.918	1.605	40.77
4418	1.563	39.688	2.563	65.100	0.750	19.050
RTL18	1.563	39.688	2.594	65.881	0.625	15.875
D18	1.563	39.688	2.594	65.888	0.625	15.875
FT18	1.563	39.688	2.594	65.888	0.625	15.875
GT18	1.563	39.688	2.594	65.888	0.625	15.875
B18	1.563	39.688	2.594	65.890	0.750	19.050
RT610	1.563	39.688	3.000	76.200	0.812	20.625
RTW610	1.563	39.688	3.125	79.375	1.062	26.975



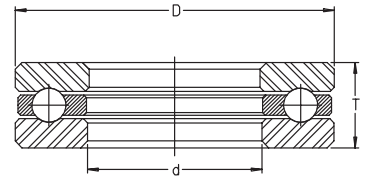
Thrust Bearing Selector

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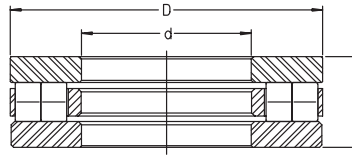
PART NUMBER	SHAFT		OD		WIDTH	
	inch	mm	inch	mm	inch	mm
51108	1.575	40.000	2.362	60.000	0.512	13.000
811 08 TN	1.575	40.000	2.362	60.000	0.512	13.000
2908	1.575	40.000	2.362	60.000	0.630	16.000
F-201422	1.575	40	2.441	62	0.236	6
908	1.575	40.000	2.520	64.000	0.709	18.000
DL40	1.575	40.000	2.520	64.000	0.748	19.000
4108	1.575	40.000	2.520	64.000	0.827	21.000
51208	1.575	40.000	2.677	68.000	0.748	19.000
812 08 TN	1.575	40.000	2.677	68.000	0.748	19.000
893 08 TN	1.575	40.000	3.071	78.000	0.866	22.000
508	1.575	40.000	3.347	85.000	1.732	44.000
874 08	1.575	40.000	3.543	90.000	0.906	23.000
15X40	1.575	40	3.543	90	1.449	36.8
F-217925.1	1.591	40.4	2.149	54.58	0.143	3.62
F-217926.1	1.591	40.4	2.149	54.58	0.150	3.8
F-217927.1	1.591	40.4	2.149	54.58	0.157	4
2282	1.625	41.275	2.381	60.477	0.656	16.662
EW1-5/8	1.625	41.275	2.438	61.930	0.500	12.700
W1-5/8	1.625	41.275	2.469	62.710	0.719	18.260
4419	1.625	41.275	2.813	71.450	0.875	22.225
B19	1.625	41.275	2.969	75.410	0.875	22.220
FT19	1.625	41.275	2.969	75.413	0.813	20.638
GT19	1.625	41.275	2.969	75.413	0.813	20.638
D19	1.625	41.275	2.969	75.413	0.813	20.650
RTL19	1.625	41.275	2.969	75.413	0.813	20.650
RCT11	1.625	41.275	3.093	78.562	0.812	20.625
RT611	1.625	41.275	3.250	82.550	1.000	25.400
RTW611	1.625	41.275	3.375	85.725	1.312	33.325
16Y03	1.656	42.054	2.640	67.056	1.005	25.52
2041	1.688	42.863	2.375	60.325	0.563	14.288
4420	1.688	42.863	2.813	71.450	0.875	22.225
B20	1.688	42.863	2.969	75.410	0.875	22.220
FT20	1.688	42.863	2.969	75.413	0.813	20.638
GT20	1.688	42.863	2.969	75.413	0.813	20.638
D20	1.688	42.863	2.969	75.413	0.813	20.650
RTL20	1.688	42.863	2.969	75.413	0.813	20.650
RT612	1.688	42.863	3.250	82.550	1.000	25.400
RTW612	1.688	42.863	3.376	85.748	1.313	33.338
FC67908	1.695	43.06	2.496	63.4	0.137	3.47
FC69100.1	1.726	43.85	2.641	67.09	0.198	5.02
FC67996	1.744	44.31	2.434	61.83	0.150	3.81
EW1-3/4	1.750	44.450	2.625	66.675	0.625	15.875
W1-3/4	1.750	44.450	2.688	68.280	0.755	19.180
4421	1.750	44.450	2.938	74.630	0.875	22.225
RTL21	1.750	44.450	3.094	78.588	0.813	20.637
FT21	1.750	44.450	3.094	78.588	0.813	20.638
GT21	1.750	44.450	3.094	78.588	0.813	20.638



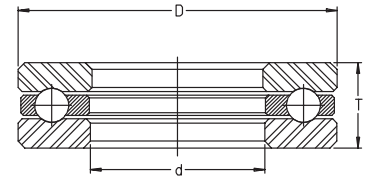
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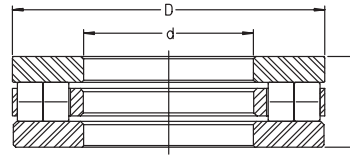
PART NUMBER	SHAFT		OD		WIDTH	
	inch	mm	inch	mm	inch	mm
D21	1.750	44.450	3.094	78.588	0.813	20.650
B21	1.750	44.450	3.094	78.590	0.875	22.220
RT613	1.750	44.450	3.375	85.725	1.000	25.400
RTW613	1.750	44.450	3.500	88.900	1.312	33.325
17YS10SS	1.753	44.53	3.109	78.97	0.818	20.78
51109	1.772	45.000	2.559	65.000	0.551	14.000
811 09 TN	1.772	45.000	2.559	65.000	0.551	14.000
2909	1.772	45.000	2.677	68.000	0.630	16.000
DL45	1.772	45.000	2.835	72.000	0.886	22.500
51209	1.772	45.000	2.874	73.000	0.787	20.000
812 09 TN	1.772	45.000	2.874	73.000	0.787	20.000
909	1.772	45.000	2.874	73.000	0.866	22.000
4109	1.772	45.000	2.874	73.000	0.984	25.000
893 09 TN	1.772	45.000	3.346	85.000	0.945	24.000
3909	1.772	45.000	3.347	85.000	1.102	28.000
1009	1.772	45.000	3.740	95.000	1.850	47.000
509	1.772	45.000	3.740	95.000	1.969	50.000
874 09	1.772	45.000	3.937	100.000	0.984	25.000
FC67905	1.774	45.05	2.480	63	0.143	3.62
FC65785.3	1.776	45.11	2.460	62.48	0.143	3.63
17RT11	1.776	45.11	3.635	92.329	1.125	28.575
4422	1.813	46.038	2.938	74.630	0.875	22.225
FT22	1.813	46.038	3.094	78.588	0.813	20.638
GT22	1.813	46.038	3.094	78.588	0.813	20.638
D22	1.813	46.038	3.094	78.588	0.813	20.650
RTL22	1.813	46.038	3.094	78.588	0.813	20.650
B22	1.813	46.038	3.094	78.590	0.875	22.220
RT614	1.813	46.038	3.375	85.725	1.000	25.400
RTW614	1.813	46.038	3.500	88.900	1.312	33.325
FC67997	1.824	46.33	2.475	62.87	0.150	3.8
18Y02	1.828	46.431	2.608	66.243	0.630	16
EW1-7/8	1.875	47.625	2.750	69.850	0.625	15.875
W1-7/8	1.875	47.625	2.813	71.450	0.750	19.050
4423	1.875	47.625	3.063	77.800	0.875	22.225
B23	1.875	47.625	3.219	81.760	0.875	22.220
D23	1.875	47.625	3.219	81.763	0.813	20.650
FT23	1.875	47.625	3.219	81.763	0.813	20.638
GT23	1.875	47.625	3.219	81.763	0.813	20.638
RTL23	1.875	47.625	3.219	81.763	0.813	20.650
RT615	1.875	47.625	3.500	88.900	1.000	25.400
RTW615	1.875	47.625	3.625	92.075	1.312	33.325
18X15	1.876	47.65	3.250	82.55	1.515	38.48
FC69598	1.911	48.55	2.604	66.14	0.143	3.62
F213342.3	1.924	48.87	2.582	65.58	0.143	3.62
FC65970.2	1.924	48.87	2.604	66.14	0.143	3.63
4424	1.938	49.213	3.063	77.800	0.875	22.225
B24	1.938	49.213	3.219	81.760	0.875	22.220



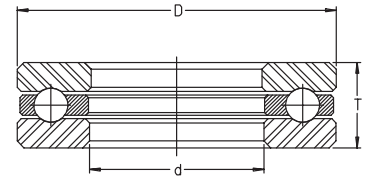
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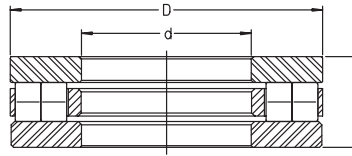
PART NUMBER	SHAFT		OD		WIDTH	
	inch	mm	inch	mm	inch	mm
D24	1.938	49.213	3.219	81.763	0.813	20.650
FT24	1.938	49.213	3.219	81.763	0.813	20.638
GT24	1.938	49.213	3.219	81.763	0.813	20.638
RTL24	1.938	49.213	3.219	81.763	0.813	20.650
RCT16	1.938	49.213	3.246	82.448	0.812	20.625
RT616	1.938	49.213	3.500	88.900	1.000	25.400
RTW616	1.938	49.213	3.625	92.075	1.312	33.325
51110	1.969	50.000	2.756	70.000	0.551	14.000
811 10 TN	1.969	50.000	2.756	70.000	0.551	14.000
2910	1.969	50.000	2.913	74.000	0.709	18.000
51210	1.969	50.000	3.071	78.000	0.866	22.000
812 10 TN	1.969	50.000	3.071	78.000	0.866	22.000
910	1.969	50.000	3.071	78.000	0.866	22.000
4110	1.969	50.000	3.071	78.000	0.984	25.000
DL50	1.969	50.000	3.150	80.000	0.965	24.500
1912	1.969	50.000	3.543	90.000	1.673	42.5
3910	1.969	50.000	3.622	92.000	1.221	31.000
893 10 TN	1.969	50.000	3.740	95.000	1.063	27.000
FC66199.4	1.970	50.05	3.091	78.5	0.583	14.8
FC66935.1	1.979	50.27	2.876	73.05	0.143	3.63
F226568.4	1.988	50.5	2.953	75	0.198	5.03
EW2	2.000	50.800	2.875	73.020	0.625	15.875
W2	2.000	50.800	2.969	75.410	0.750	19.050
XW2	2.000	50.800	3.063	77.800	0.688	17.480
4425	2.000	50.800	3.188	80.980	0.875	22.225
2280	2.000	50.800	3.250	82.550	0.813	20.638
D25	2.000	50.800	3.344	84.938	0.813	20.650
RTL25	2.000	50.800	3.344	84.938	0.813	20.637
FT25	2.000	50.800	3.344	84.938	0.813	20.638
GT25	2.000	50.800	3.344	84.938	0.813	20.638
B25	2.000	50.800	3.344	84.940	0.875	22.220
2023	2.000	50.800	3.500	88.900	1.625	41.275
RT617	2.000	50.800	3.625	92.075	1.000	25.400
MW2	2.000	50.800	3.688	93.680	1.375	34.925
RTW617	2.000	50.800	3.750	95.250	1.312	33.325
RCT17	2.000	50.800	3.952	100.380	1.000	25.400
RWCT17	2.000	50.800	4.000	101.600	1.000	25.400
RT727	2.000	50.800	6.000	152.400	1.375	34.925
FC69103.1	2.037	51.75	3.035	77.09	0.238	6.05
20PS01	2.056	52.222	2.247	57.074	0.142	3.6
4426	2.063	52.388	3.188	80.980	0.875	22.225
D26	2.063	52.388	3.344	84.938	0.813	20.650
FT26	2.063	52.388	3.344	84.938	0.813	20.638
GT26	2.063	52.388	3.344	84.938	0.813	20.638
B26	2.063	52.388	3.344	84.940	0.875	22.220
XW2-1/8	2.125	53.975	3.188	80.980	0.688	17.480
W2-1/8	2.125	53.975	3.219	81.760	0.875	22.225



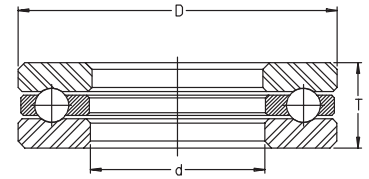
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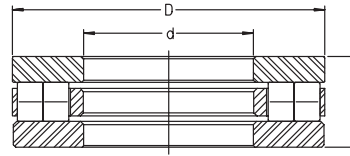
PART NUMBER	SHAFT		OD		WIDTH	
	inch	mm	inch	mm	inch	mm
4427	2.125	53.975	3.313	84.150	0.875	22.225
FT27	2.125	53.975	3.594	91.288	0.813	20.638
GT27	2.125	53.975	3.594	91.288	0.813	20.638
D27	2.125	53.975	3.594	91.288	0.813	20.650
RTL27	2.125	53.975	3.594	91.288	0.813	20.650
B27	2.125	53.975	3.594	91.290	0.875	22.225
RT618	2.125	53.975	3.750	95.250	1.000	25.400
RTW618	2.125	53.975	3.875	98.425	1.312	33.325
FC67324.7	2.126	54	3.032	77.01	0.188	4.77
FC65747	2.128	54.04	2.900	73.66	0.143	3.63
51111	2.165	55.000	3.071	78.000	0.630	16.000
811 11 TN	2.165	55.000	3.071	78.000	0.630	16.000
2911	2.165	55.000	3.071	78.000	0.709	18.000
911	2.165	55.000	3.465	88.000	0.965	24.500
4111	2.165	55.000	3.465	88.000	1.102	28.000
DL55	2.165	55.000	3.465	88.000	1.102	28.000
51211	2.165	55.000	3.543	90.000	0.984	25.000
812 11 TN	2.165	55.000	3.543	90.000	0.984	25.000
3911	2.165	55.000	3.937	100.000	1.299	33.000
893 11 TN	2.165	55.000	4.134	105.000	1.181	30.000
FC67324.1S	2.186	55.53	3.032	77.01	0.188	4.77
4428	2.188	55.563	3.313	84.138	0.875	22.225
FT28	2.188	55.563	3.594	91.288	0.813	20.638
GT28	2.188	55.563	3.594	91.288	0.813	20.638
D28	2.188	55.563	3.594	91.288	0.813	20.650
RTL28	2.188	55.563	3.594	91.288	0.813	20.650
B28	2.188	55.563	3.594	91.290	0.875	22.220
21Z02	2.188	55.575	3.751	95.275	1.255	31.87
21P01	2.190	55.626	3.594	91.288	0.817	20.75
4703	2.248	57.099	3.372	85.649	0.755	19.177
EW2-1/4	2.250	57.150	3.125	79.380	0.625	15.875
B29	2.250	57.150	3.719	80.747	0.875	22.220
W2-1/4	2.250	57.150	3.344	84.940	0.875	22.225
XW2-1/4	2.250	57.150	3.352	85.150	0.688	17.480
22X23	2.250	57.15	3.438	87.313	0.875	22.225
4429	2.250	57.150	3.438	87.330	0.880	22.360
FT29	2.250	57.150	3.719	94.463	0.813	20.638
GT29	2.250	57.150	3.719	94.463	0.813	20.638
D29	2.250	57.150	3.719	94.463	0.813	20.650
RTL29	2.250	57.150	3.719	94.463	0.813	20.650
RT619	2.250	57.150	3.875	98.425	1.000	25.400
RCT19	2.250	57.150	4.000	101.600	1.000	25.400
RTW619	2.250	57.150	4.000	101.600	1.312	33.325
RCT20C	2.250	57.150	4.250	107.950	1.000	25.400
RWCT19	2.250	57.150	4.250	107.950	1.000	25.400
FC65786.2	2.294	58.27	3.076	78.13	0.143	3.63
FC67906	2.294	58.27	3.109	78.98	0.143	3.62



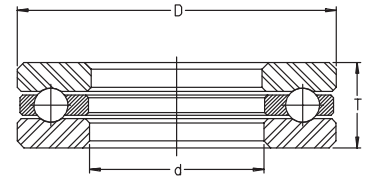
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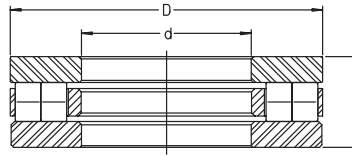
PART NUMBER	SHAFT		OD		WIDTH	
	inch	mm	inch	mm	inch	mm
4430	2.313	58.738	3.438	87.330	0.875	22.225
B30	2.313	58.738	3.719	94.460	0.875	22.220
FT30	2.313	58.738	3.719	94.463	0.813	20.638
GT30	2.313	58.738	3.719	94.463	0.813	20.638
D30	2.313	58.738	3.719	94.463	0.813	20.650
RCT20B	2.313	58.738	4.265	108.331	1.005	25.527
2912	2.362	60.000	3.228	82.000	0.709	18.000
51112	2.362	60.000	3.347	85.000	0.669	17.000
811 12 TN	2.362	60.000	3.346	85.000	0.669	17.000
2913	2.362	60.000	3.543	90.000	0.787	20.000
912	2.362	60.000	3.543	90.000	0.965	24.500
4112	2.362	60.000	3.543	90.000	1.102	28.000
51212	2.362	60.000	3.740	95.000	1.024	26.000
812 12 TN	2.362	60.000	3.740	95.000	1.024	26.000
DL60	2.362	60.000	3.858	98.000	1.201	30.500
3912	2.362	60.000	4.173	106.000	1.378	35.000
893 12 TN	2.362	60.000	4.331	110.000	1.181	30.000
874 12	2.362	60.000	5.118	130.000	1.260	32.000
512	2.362	60.000	5.118	130.000	2.677	68.000
F-218320	2.374	60.3	3.260	82.8	0.110	2.8
F-223348	2.374	60.3	3.260	82.8	0.116	2.95
F-223349	2.374	60.3	3.272	83.1	0.124	3.15
F-223350	2.374	60.3	3.287	83.5	0.132	3.35
XW2-3/8	2.375	60.325	3.438	87.330	0.688	17.480
4431	2.375	60.325	3.563	90.500	0.875	22.225
W2-3/8	2.375	60.325	3.594	91.290	1.000	25.400
D31	2.375	60.325	3.844	97.638	0.813	20.650
FT31	2.375	60.325	3.844	97.638	0.813	20.638
GT31	2.375	60.325	3.844	97.638	0.813	20.638
RTL31	2.375	60.325	3.844	97.638	0.813	20.650
B31	2.375	60.325	3.844	97.640	0.875	22.220
RT620	2.375	60.325	4.000	101.600	1.000	25.400
RTW620	2.375	60.325	4.125	104.775	1.312	33.325
FC68865	2.380	60.45	3.285	83.45	0.222	5.63
4432	2.438	61.913	3.563	90.500	0.875	22.225
D32	2.438	61.913	3.844	97.638	0.813	20.650
FT32	2.438	61.913	3.844	97.638	0.813	20.638
GT32	2.438	61.913	3.844	97.638	0.813	20.638
RTL32	2.438	61.913	3.844	97.638	0.813	20.650
B32	2.438	61.913	3.844	97.640	0.875	22.225
F-225458	2.445	62.1	3.260	82.8	0.110	2.8
F-225459	2.445	62.1	3.260	82.8	0.116	2.95
F-225461	2.445	62.1	3.287	83.5	0.132	3.35
FC66012.9	2.488	63.2	3.380	85.85	0.152	3.87
FC66012	2.488	63.2	3.380	85.85	0.153	3.88
FC66012S381	2.488	63.2	3.380	85.85	0.153	3.88
XW2-1/2	2.500	63.500	3.563	90.500	0.688	17.480



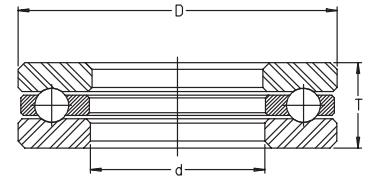
Thrust Bearing Selector

PART NUMBER AND SIZE

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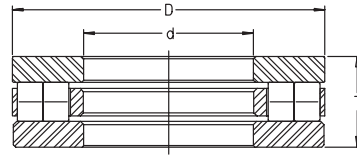
PART NUMBER	SHAFT		OD		WIDTH	
	inch	mm	inch	mm	inch	mm
2281	2.500	63.500	3.688	93.662	0.938	23.813
W2-1/2	2.500	63.500	3.719	94.460	1.000	25.400
D33	2.500	63.500	3.969	100.813	0.813	20.650
RTL33	2.500	63.500	3.969	100.813	0.813	20.637
FT33	2.500	63.500	3.969	100.813	0.814	20.671
GT33	2.500	63.500	3.969	100.813	0.814	20.671
B33	2.500	63.500	3.969	100.813	0.875	22.225
4433	2.500	63.500	4.000	101.600	1.125	28.580
RT621	2.500	63.500	4.126	104.803	1.000	25.400
RTW621	2.500	63.500	4.250	107.950	1.312	33.325
25Y07	2.502	63.551	4.541	115.34	1.847	46.91
FC67222.1	2.540	64.516	3.320	84.328	0.159	4.03
51113	2.559	65.000	3.543	90.000	0.709	18.000
811 13 TN	2.559	65.000	3.543	90.000	0.709	18.000
51213	2.559	65.000	3.937	100.000	1.063	27.000
812 13 TN	2.559	65.000	3.937	100.000	1.063	27.000
913	2.559	65.000	3.937	100.000	1.063	27.000
4113	2.559	65.000	3.937	100.000	1.260	32.000
DL65	2.559	65.000	4.055	103.000	1.240	31.500
3913	2.559	65.000	4.409	112.000	1.417	36.000
893 13 TN	2.559	65.000	4.528	115.000	1.181	30.000
513	2.559	65.000	5.512	140.000	2.913	74.000
513	2.559	65	5.512	140	2.913	74
D34	2.563	65.088	3.969	100.813	0.813	20.650
FT34	2.563	65.088	3.969	100.813	0.813	20.638
GT34	2.563	65.088	3.969	100.813	0.813	20.638
B34	2.563	65.088	3.969	100.813	0.875	22.225
4434	2.563	65.088	4.000	101.600	1.125	28.580
25Y14	2.566	65.176	3.968	100.787	0.880	22.352
26RTW08	2.618	66.497	4.186	106.324	1.345	34.163
26RT18	2.624	66.65	4.342	110.287	1.005	25.527
26RT19	2.624	66.65	4.342	110.287	1.396	35.458
26RT20	2.624	66.65	4.342	110.29	1.005	25.53
XW2-5/8	2.625	66.675	3.750	95.250	0.750	19.050
W2-5/8	2.625	66.675	3.844	97.640	1.000	25.400
4435	2.625	66.675	4.125	104.770	1.125	28.580
RT622	2.625	66.675	4.343	110.300	1.000	25.400
D35	2.625	66.675	4.344	110.338	1.000	25.400
FT35	2.625	66.675	4.344	110.338	1.000	25.400
GT35	2.625	66.675	4.344	110.338	1.000	25.400
RTL35	2.625	66.675	4.344	110.338	1.000	25.400
B35	2.625	66.675	4.344	110.340	1.125	28.580
RTW622	2.625	66.675	4.530	115.062	1.312	33.325
26RT17.2	2.627	66.726	6.015	152.781	0.939	23.85
FC67977	2.627	66.726	6.015	152.781	0.939	23.85
D36	2.688	68.263	4.344	110.338	1.000	25.400
FT36	2.688	68.263	4.344	110.338	1.000	25.400



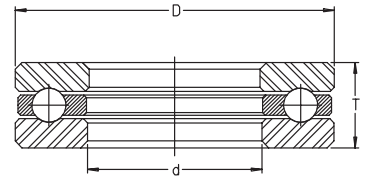
Thrust Bearing Selector

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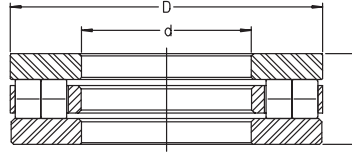
PART NUMBER	SHAFT		OD		WIDTH	
	inch	mm	inch	mm	inch	mm
GT36	2.688	68.263	4.344	110.338	1.000	25.400
B36	2.688	68.263	4.344	110.340	1.125	28.580
XW2-3/4	2.750	69.850	3.875	98.430	0.750	19.050
W2-3/4	2.750	69.850	4.031	102.390	1.000	25.400
4436	2.750	69.850	4.250	107.950	1.125	28.580
RT623	2.750	69.850	4.468	113.475	1.000	25.400
B37	2.750	69.850	4.469	113.510	1.125	28.580
D37	2.750	69.850	4.469	113.513	1.000	25.400
FT37	2.750	69.850	4.469	113.513	1.000	25.400
GT37	2.750	69.850	4.469	113.513	1.000	25.400
RTL37	2.750	69.850	4.469	113.513	1.000	25.400
RTW623	2.750	69.850	4.655	118.237	1.313	33.338
RCT23	2.750	69.850	4.750	120.650	1.000	25.400
RWCT23	2.750	69.850	4.843	123.012	1.000	25.400
RCT24A	2.750	69.850	4.875	123.825	1.250	31.750
51114	2.756	70.000	3.740	95.000	0.709	18.000
811 14 TN	2.756	70.000	3.740	95.000	0.709	18.000
2914	2.756	70.000	3.740	95.000	0.787	20.000
27X30	2.756	70	4.055	103	1.063	27
914	2.756	70.000	4.055	103.000	1.063	27.000
4114	2.756	70.000	4.055	103.000	1.260	32.000
51214	2.756	70.000	4.134	105.000	1.063	27.000
812 14 TN	2.756	70.000	4.134	105.000	1.063	27.000
DL70	2.756	70.000	4.252	108.000	1.260	32.000
3914	2.756	70.000	4.724	120.000	1.496	38.000
DM70	2.756	70.000	4.803	122.000	1.634	41.500
893 14 TN	2.756	70.000	4.921	125.000	1.339	34.000
874 14	2.756	70.000	5.906	150.000	1.417	36.000
514	2.756	70.000	5.906	150.000	3.150	80.000
B38	2.813	71.438	4.469	113.510	1.125	28.580
D38	2.813	71.438	4.469	113.513	1.000	25.400
FT38	2.813	71.438	4.469	113.513	1.000	25.400
GT38	2.813	71.438	4.469	113.513	1.000	25.400
RCT23B	2.813	71.438	4.750	120.650	1.000	25.400
XW2-7/8	2.875	73.025	4.000	101.600	0.750	19.050
W2-7/8	2.875	73.025	4.156	105.560	1.000	25.400
FT39	2.875	73.025	4.594	116.688	1.000	25.400
GT39	2.875	73.025	4.594	116.688	1.000	25.400
F-390470.7	2.902	73.7	3.583	91	0.143	3.62
4437	2.938	74.613	4.438	112.730	1.125	28.580
D39	2.938	74.613	4.594	116.688	1.000	25.400
FT40	2.938	74.613	4.594	116.688	1.000	25.400
GT40	2.938	74.613	4.594	116.688	1.000	25.400
B39	2.938	74.613	4.594	116.690	1.125	28.580
51115	2.953	75.000	3.937	100.000	0.748	19.000
811 15 TN	2.953	75.000	3.937	100.000	0.748	19.000
2915	2.953	75.000	3.937	100.000	0.787	20.000



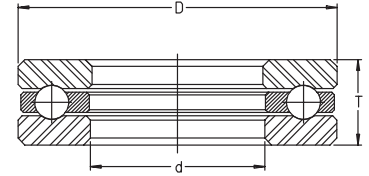
Thrust Bearing Selector

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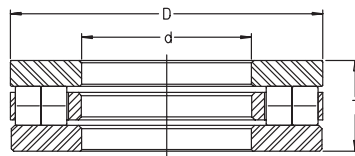
PART NUMBER	SHAFT		OD		WIDTH	
	inch	mm	inch	mm	inch	mm
51215	2.953	75.000	4.331	110.000	1.063	27.000
812 15 TN	2.953	75.000	4.331	110.000	1.063	27.000
915	2.953	75.000	4.331	110.000	1.063	27.000
4115	2.953	75.000	4.331	110.000	1.260	32.000
DL75	2.953	75.000	4.409	112.000	1.280	32.500
3915	2.953	75.000	5.039	128.000	1.614	41.000
893 15 TN	2.953	75.000	5.315	135.000	1.417	36.000
515	2.953	75.000	6.299	160.000	3.268	83.000
XW3	3.000	76.200	4.125	104.770	0.750	19.050
W3	3.000	76.200	4.375	111.130	1.125	28.580
4438	3.000	76.200	4.500	114.300	1.125	28.580
D39-1/2	3.000	76.200	4.594	116.688	1.000	25.400
B40	3.000	76.200	4.719	119.860	1.125	28.580
D40	3.000	76.200	4.719	119.863	1.000	25.400
FT41	3.000	76.200	4.719	119.863	1.000	25.400
GT41	3.000	76.200	4.719	119.863	1.000	25.400
RTL41	3.000	76.200	4.719	119.863	1.000	25.400
RT624	3.000	76.200	4.719	119.870	1.000	25.400
RTW624	3.000	76.200	4.969	126.213	1.312	33.325
RT730	3.000	76.200	6.000	152.400	1.375	34.925
30RT04	3.000	76.2	6.380	162.052	1.312	33.32
RT731	3.000	76.200	7.000	177.800	1.375	34.925
RT732	3.000	76.200	8.000	203.200	1.375	34.925
RT733	3.000	76.200	9.000	228.600	1.375	34.925
30RT20.2	3.002	76.251	8.010	203.454	0.939	23.85
FT42	3.063	77.788	4.719	119.863	1.000	25.400
GT42	3.063	77.788	4.719	119.863	1.000	25.400
XW3-1/8	3.125	79.375	4.250	107.950	0.750	19.050
W3-1/8	3.125	79.375	4.500	114.300	1.125	28.580
4439	3.125	79.375	4.625	117.480	1.125	28.580
51116	3.150	80.000	4.134	105.000	0.748	19.000
811 16 TN	3.150	80.000	4.134	105.000	0.748	19.000
2916	3.150	80.000	4.331	110.000	0.906	23.000
51216	3.150	80.000	4.528	115.000	1.102	28.000
812 16 TN	3.150	80.000	4.528	115.000	1.102	28.000
31X42	3.150	80	4.528	115	1.142	29
916	3.150	80.000	4.528	115.000	1.142	29.000
4116	3.150	80.000	4.528	115.000	1.378	35.000
DL80	3.150	80.000	4.646	118.000	1.339	34.000
3916	3.150	80.000	5.354	136.000	1.732	44.000
893 16 TN	3.150	80.000	5.512	140.000	1.417	36.000
516	3.150	80.000	6.693	170.000	3.543	90.000
31X14	3.177	80.696	4.248	107.899	0.552	14.021
32RT01	3.249	82.517	4.875	123.825	1.000	25.4
XW3-1/4	3.250	82.550	4.375	111.130	0.750	19.050
2279	3.250	82.550	4.499	114.262	1.125	28.575
4440	3.250	82.550	4.750	120.650	1.125	28.580



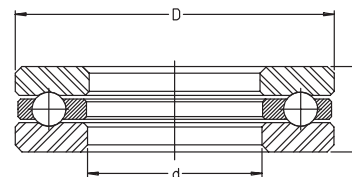
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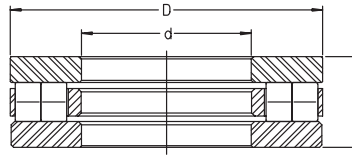
PART NUMBER	SHAFT		OD		WIDTH	
	inch	mm	inch	mm	inch	mm
W3-1/4	3.250	82.550	4.813	122.250	1.250	31.750
RT625	3.250	82.550	4.968	126.187	1.000	25.400
B41	3.250	82.550	4.969	126.210	1.125	28.580
D41	3.250	82.550	4.969	126.213	1.000	25.400
FT43	3.250	82.550	4.969	126.213	1.000	25.400
GT43	3.250	82.550	4.969	126.213	1.000	25.400
RTL43	3.250	82.550	4.969	126.213	1.000	25.400
RTW625	3.250	82.550	5.220	132.585	1.313	33.338
RCT27A	3.250	82.550	6.125	155.575	1.500	38.100
RCT27C	3.250	82.550	6.187	157.150	1.750	44.450
RWCT27C	3.250	82.550	6.375	161.925	1.750	44.450
51117	3.347	85.000	4.331	110.000	0.748	19.000
811 17 TN	3.347	85.000	4.331	110.000	0.748	19.000
2917	3.347	85.000	4.528	115.000	0.866	22.000
917	3.347	85.000	4.921	125.000	1.201	30.500
51217	3.347	85.000	4.921	125.000	1.221	31.000
812 17 TN	3.347	85.000	4.921	125.000	1.220	31.000
DL85	3.347	85.000	4.921	125.000	1.339	34.000
4117	3.347	85.000	4.921	125.000	1.496	38.000
893 17	3.347	85.000	5.906	150.000	1.535	39.000
517	3.347	85.000	7.087	180.000	3.740	95.000
XW3-3/8	3.375	85.725	4.500	114.300	0.750	19.050
4441	3.375	85.725	4.875	123.820	1.125	28.580
W3-3/8	3.375	85.725	4.938	125.430	1.250	31.750
XW3-1/2	3.500	88.900	4.625	117.480	0.750	19.050
4442	3.500	88.900	5.000	127.000	1.125	28.580
W3-1/2	3.500	88.900	5.063	128.600	1.250	31.750
B42	3.500	88.900	5.219	132.560	1.125	28.580
D42	3.500	88.900	5.219	132.563	1.000	25.400
FT44	3.500	88.900	5.219	132.563	1.000	25.400
GT44	3.500	88.900	5.219	132.563	1.000	25.400
RTL44	3.500	88.900	5.219	132.563	1.000	25.400
RT626	3.500	88.900	5.220	132.575	1.000	25.400
RTW626	3.500	88.900	5.468	138.875	1.313	33.338
RCT27B	3.500	88.900	6.156	156.362	1.625	41.275
RWCT27B	3.500	88.900	6.375	161.925	1.625	41.275
RCT28A	3.500	88.900	6.750	171.450	1.625	41.275
2918	3.543	90.000	4.724	120.000	0.866	22.000
51118	3.543	90.000	4.724	120.000	0.866	22.000
811 18 TN	3.543	90.000	4.724	120.000	0.866	22.000
DL90	3.543	90.000	5.276	134.000	1.496	38.000
918	3.543	90.000	5.315	135.000	1.201	30.500
51218	3.543	90.000	5.315	135.000	1.378	35.000
812 18 TN	3.543	90.000	5.315	135.000	1.378	35.000
4118	3.543	90.000	5.315	135.000	1.496	38.000
893 18	3.543	90.000	6.102	155.000	1.535	39.000
518	3.543	90.000	7.480	190.000	3.937	100.000



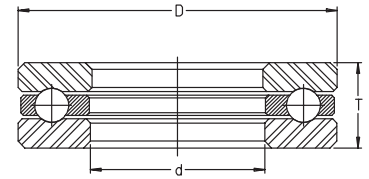
Thrust Bearing Selector

PART NUMBER AND SIZE

- Ball and roller thrust bearings
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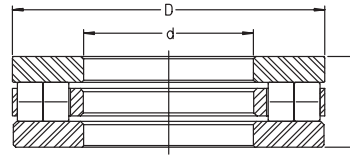
PART NUMBER	SHAFT		OD		WIDTH	
	inch	mm	inch	mm	inch	mm
RCT30B	3.563	90.488	6.375	161.925	1.375	34.925
XW3-5/8	3.625	92.075	4.750	120.650	0.750	19.050
W3-5/8	3.625	92.075	5.188	131.780	1.250	31.750
4443	3.625	92.075	5.625	142.880	1.375	34.930
2919	3.740	95.000	5.118	130.000	0.984	25.000
919	3.740	95.000	5.512	140.000	1.280	32.500
DL95	3.740	95.000	5.512	140.000	1.496	38.000
4119	3.740	95.000	5.512	140.000	1.614	41.000
XW3-3/4	3.750	95.250	4.875	123.820	0.750	19.050
2278	3.750	95.250	5.061	128.549	1.281	32.544
W3-3/4	3.750	95.250	5.313	134.950	1.250	31.750
4444	3.750	95.250	5.750	146.050	1.375	34.930
RCT34A	3.750	95.250	7.125	180.975	1.875	47.625
38YT387C	3.870	98.298	5.010	127.254	0.688	17.463
XW3-7/8	3.875	98.425	5.000	127.000	0.750	19.050
W3-7/8	3.875	98.425	5.688	144.480	1.375	34.930
4445	3.875	98.425	5.875	149.230	1.375	34.930
2920	3.937	100.000	5.315	135.000	0.984	25.000
51120	3.937	100.000	5.315	135.000	0.984	25.000
811 20 TN	3.937	100.000	5.315	135.000	0.984	25.000
51220	3.937	100.000	5.906	150.000	1.496	38.000
812 20 TN	3.937	100.000	5.906	150.000	1.496	38.000
4120	3.937	100.000	5.906	150.000	1.614	41.000
920	3.937	100.000	5.906	150.000	2.067	52.500
DL100	3.937	100.000	6.063	154.000	1.634	41.500
893 20 TN	3.937	100.000	6.693	170.000	1.654	42.000
520	3.937	100.000	8.465	215.000	4.331	110.000
40X12	3.999	101.575	5.880	149.352	1.485	37.72
40YM04	3.999	101.575	6.014	152.756	1.475	37.465
XW4	4.000	101.600	5.250	133.350	0.875	22.225
W4	4.000	101.600	5.813	147.650	1.375	34.930
4446	4.000	101.600	6.000	152.400	1.375	34.925
RT734	4.000	101.600	7.000	177.800	1.750	44.450
RT735	4.000	101.600	8.000	203.200	1.750	44.450
4447	4.125	104.775	6.134	155.800	1.375	34.930
2921	4.134	105.000	5.512	140.000	0.984	25.000
41X04	4.134	105	6.102	155	1.575	40
921	4.134	105.000	6.102	155.000	1.575	40.000
4121	4.134	105.000	6.102	155.000	1.811	46.000
XW4-1/4	4.250	107.950	5.500	139.700	0.875	22.225
4448	4.250	107.950	6.250	158.750	1.375	34.930
W4-1/4	4.250	107.950	6.313	160.350	1.750	44.450
RCT35A	4.250	107.950	8.171	207.543	2.000	50.800
2922	4.331	110.000	5.709	145.000	0.984	25.000
51122	4.331	110.000	5.709	145.000	0.984	25.000
811 22 TN	4.331	110.000	5.709	145.000	0.984	25.000
51222	4.331	110.000	6.299	160.000	1.496	38.000



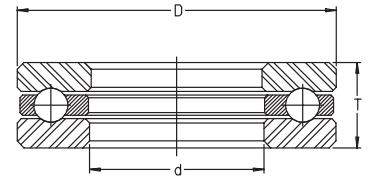
Thrust Bearing Selector

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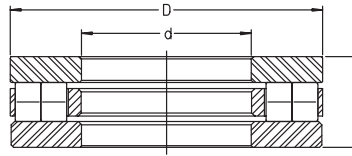
PART NUMBER	SHAFT		OD		WIDTH	
	inch	mm	inch	mm	inch	mm
812 22 TN	4.331	110.000	6.299	160.000	1.496	38.000
922	4.331	110.000	6.299	160.000	1.575	40.000
4122	4.331	110.000	6.299	160.000	1.811	46.000
893 22	4.331	110.000	7.480	190.000	1.890	48.000
894 22	4.331	110.000	9.055	230.000	2.874	73.000
4449	4.375	111.125	6.375	161.920	1.375	34.930
XW4-1/2	4.500	114.300	5.750	146.050	1.000	25.400
W4-1/2	4.500	114.300	6.500	165.100	1.750	44.450
4450	4.500	114.300	6.750	171.450	1.625	41.280
RCT38A	4.500	114.300	8.125	206.375	2.000	50.800
RWCT38A	4.500	114.300	8.312	211.125	2.000	50.800
2923	4.528	115.000	5.906	150.000	0.984	25.000
923	4.528	115.000	6.496	165.000	1.693	43.000
4123	4.528	115.000	6.496	165.000	1.929	49.000
523	4.528	115.000	9.449	240.000	4.724	120.000
2284	4.625	117.475	5.997	152.320	1.500	38.100
4451	4.625	117.475	6.875	174.630	1.625	41.280
51124	4.724	120.000	6.102	155.000	0.984	25.000
811 24 TN	4.724	120.000	6.102	155.000	0.984	25.000
2924	4.724	120.000	6.299	160.000	1.063	27.000
51224	4.724	120.000	6.693	170.000	1.535	39.000
812 24 TN	4.724	120.000	6.693	170.000	1.535	39.000
924	4.724	120.000	6.693	170.000	1.693	43.000
5124	4.724	120.000	6.693	170.000	1.929	49.000
893 24	4.724	120.000	8.268	210.000	2.126	54.000
XW4-3/4	4.750	120.650	6.000	152.400	1.000	25.400
4452	4.750	120.650	7.000	177.800	1.625	41.280
W4-3/4	4.750	120.650	7.063	179.400	2.000	50.800
4453	4.875	123.825	7.125	180.980	1.625	41.280
2925	4.921	125.000	6.496	165.000	1.063	27.000
925	4.921	125.000	6.890	175.000	1.831	46.500
4125	4.921	125.000	6.890	175.000	2.087	53.000
525	4.921	125.000	10.630	270.000	5.118	130.000
49X13	4.933	125.298	6.892	175.057	1.836	46.63
XW5	5.000	127.000	6.500	165.100	1.018	25.850
4454	5.000	127.000	7.250	184.150	1.625	41.280
W5	5.000	127.000	7.313	185.750	2.000	50.800
RCT39A	5.000	127.000	9.156	232.562	2.250	57.150
RT740	5.000	127.000	10.000	254.000	2.000	50.800
51126	5.118	130.000	6.693	170.000	1.181	30.000
811 26 TN	5.118	130.000	6.693	170.000	1.181	30.000
926	5.118	130.000	7.087	180.000	1.831	46.500
4126	5.118	130.000	7.087	180.000	2.087	53.000
51226	5.118	130.000	7.480	190.000	1.772	45.000
812 26	5.118	130.000	7.480	190.000	1.772	45.000
893 26	5.118	130.000	8.858	225.000	2.283	58.000
4455	5.125	130.175	7.375	187.325	1.625	41.275



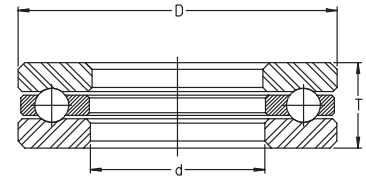
Thrust Bearing Selector

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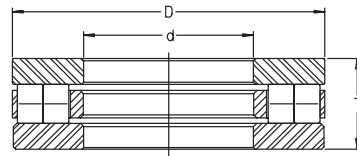
PART NUMBER	SHAFT		OD		WIDTH	
	inch	mm	inch	mm	inch	mm
XW5-1/4	5.250	133.350	6.750	171.450	1.125	28.580
4456	5.250	133.350	7.500	190.500	1.625	41.280
52X12	5.251	133.375	7.135	181.23	1.485	37.72
52YM04Z	5.251	133.375	7.269	184.63	1.470	37.34
4457	5.375	136.525	7.625	193.675	1.630	41.400
XW5-1/2	5.500	139.700	7.000	177.800	1.007	25.580
W5-1/2	5.500	139.700	8.063	204.800	2.193	55.700
4458	5.500	139.700	8.250	209.550	1.875	47.630
RCT44A	5.500	139.700	10.100	256.540	0.000	0.000
51128	5.512	140.000	7.087	180.000	1.221	31.000
811 28 TN	5.512	140.000	7.087	180.000	1.220	31.000
2928	5.512	140.000	7.284	185.000	1.221	31.000
51228	5.512	140.000	7.874	200.000	1.811	46.000
812 28	5.512	140.000	7.874	200.000	1.811	46.000
928	5.512	140.000	7.874	200.000	2.047	52.000
4128	5.512	140.000	7.874	200.000	2.362	60.000
893 28	5.512	140.000	9.449	240.000	2.362	60.000
528	5.512	140.000	11.811	300.000	5.512	140.000
RCT45B	5.563	141.288	11.500	292.100	2.000	50.800
56RT02	5.625	142.875	8.270	210.058	1.750	44.45
4459	5.625	142.875	8.375	212.730	1.875	47.630
XW5-3/4	5.750	146.050	7.250	184.150	1.125	28.580
4460	5.750	146.050	8.500	215.900	1.875	47.630
4461	5.875	149.225	8.625	219.080	1.875	47.630
51130	5.906	150.000	7.480	190.000	1.221	31.000
811 30 TN	5.906	150.000	7.480	190.000	1.220	31.000
51230	5.906	150.000	8.465	215.000	1.969	50.000
812 30	5.906	150.000	8.465	215.000	1.969	50.000
930	5.906	150.000	8.661	220.000	2.165	55.000
4130	5.906	150.000	8.661	220.000	2.362	60.000
893 30	5.906	150.000	9.843	250.000	2.362	60.000
XW6	6.000	152.400	7.625	193.680	1.250	31.750
W6	6.000	152.400	8.688	220.663	2.375	60.325
4462	6.000	152.400	8.750	222.250	1.875	47.625
RCT45A	6.000	152.400	11.156	283.362	3.000	76.200
4463	6.125	155.575	8.875	225.420	1.875	47.630
4464	6.250	158.750	9.000	228.600	1.875	47.630
51132	6.299	160.000	7.874	200.000	1.221	31.000
811 32	6.299	160.000	7.874	200.000	1.220	31.000
51232	6.299	160.000	8.858	225.000	2.008	51.000
812 32	6.299	160.000	8.858	225.000	2.008	51.000
932	6.299	160.000	9.252	235.000	2.362	60.000
4132	6.299	160.000	9.252	235.000	2.559	65.000
893 32	6.299	160.000	10.630	270.000	2.638	67.000
4465	6.375	161.925	9.125	231.770	1.875	47.630
XW6-1/2	6.500	165.100	8.125	206.380	1.250	31.750
W6-1/2	6.500	165.100	9.406	238.910	2.500	63.500



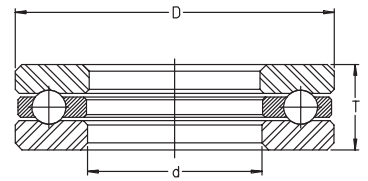
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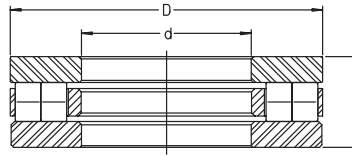
PART NUMBER	SHAFT		OD		WIDTH	
	inch	mm	inch	mm	inch	mm
4466	6.500	165.100	9.500	241.300	2.250	57.150
65X14	6.504	165.202	8.125	206.375	1.255	31.877
65X12	6.570	166.878	7.570	192.278	0.688	17.47
4467	6.625	168.275	9.625	244.480	2.250	57.150
51134	6.693	170.000	8.465	215.000	1.339	34.000
811 34	6.693	170.000	8.465	215.000	1.339	34.000
51234	6.693	170.000	9.449	240.000	2.165	55.000
812 34	6.693	170.000	9.449	240.000	2.165	55.000
934	6.693	170.000	9.843	250.000	2.559	65.000
4134	6.693	170.000	9.843	250.000	2.756	70.000
893 34	6.693	170.000	11.024	280.000	2.638	67.000
4468	6.750	171.450	9.750	247.650	2.250	57.150
67X02	6.769	171.93	8.465	215.011	1.339	34.01
RCT49A	6.813	173.038	12.750	323.850	2.500	63.500
FC67080	6.970	177.038	8.125	206.376	1.510	38.35
XW7	7.000	177.800	8.750	222.250	1.375	34.930
W7	7.000	177.800	10.125	257.180	2.625	66.680
70X14	7.020	178.308	9.002	228.65	1.005	25.527
70X01	7.021	178.333	9.000	228.6	0.963	24.46
51136	7.087	180.000	8.858	225.000	1.339	34.000
811 36	7.087	180.000	8.858	225.000	1.339	34.000
51236	7.087	180.000	9.843	250.000	2.205	56.000
812 36	7.087	180.000	9.843	250.000	2.205	56.000
936	7.087	180.000	10.236	260.000	2.559	65.000
4136	7.087	180.000	10.236	260.000	2.756	70.000
893 36	7.087	180.000	11.811	300.000	2.874	73.000
51138	7.480	190.000	9.449	240.000	1.457	37.000
811 38	7.480	190.000	9.449	240.000	1.457	37.000
51238	7.480	190.000	10.630	270.000	2.441	62.000
812 38	7.480	190.000	10.630	270.000	2.441	62.000
938	7.480	190.000	10.827	275.000	2.756	70.000
4138	7.480	190.000	10.827	275.000	3.150	80.000
893 38	7.480	190.000	12.598	320.000	3.071	78.000
XW7-1/2	7.500	190.500	9.250	234.950	1.375	34.930
W7-1/2	7.500	190.500	10.875	276.220	2.750	69.850
78X03	7.873	199.969	11.417	290	2.761	70.13
51140	7.874	200.000	9.843	250.000	1.457	37.000
811 40	7.874	200.000	9.843	250.000	1.457	37.000
51240	7.874	200.000	11.024	280.000	2.441	62.000
812 40	7.874	200.000	11.024	280.000	2.441	62.000
940	7.874	200.000	11.417	290.000	2.756	70.000
4140	7.874	200.000	11.417	290.000	3.150	80.000
893 40	7.874	200.000	13.386	340.000	3.346	85.000
80X03	7.998	203.149	11.750	298.45	2.503	63.576
XW8	8.000	203.200	10.000	254.000	1.500	38.100
W8	8.000	203.200	11.625	295.280	3.000	76.200
RCT52	8.438	214.313	14.500	368.300	3.000	76.200



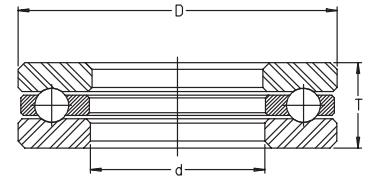
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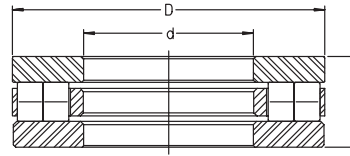
PART NUMBER	SHAFT		OD		WIDTH	
	inch	mm	inch	mm	inch	mm
XW8-1/2	8.500	215.900	10.500	266.700	1.500	38.100
85X04	8.530	216.662	10.500	266.7	1.000	25.4
51144	8.661	220.000	10.630	270.000	1.457	37.000
811 44	8.661	220.000	10.630	270.000	1.457	37.000
51244	8.661	220.000	11.811	300.000	2.480	63.000
812 44	8.661	220.000	11.811	300.000	2.480	63.000
944	8.661	220.000	12.402	315.000	3.150	80.000
XW9	9.000	228.600	11.250	285.750	1.875	47.625
W9	9.000	228.600	13.125	333.380	3.500	88.900
RCT54	9.313	236.538	16.500	419.100	3.000	76.200
51148	9.449	240.000	11.811	300.000	1.772	45.000
811 48	9.449	240.000	11.811	300.000	1.772	45.000
51248	9.449	240.000	13.386	340.000	3.071	78.000
812 48	9.449	240.000	13.386	340.000	3.071	78.000
948	9.449	240.000	13.583	345.000	3.347	85.000
XW9-1/2	9.500	241.300	11.750	298.450	1.875	47.625
XW10	10.000	254.000	12.500	317.500	2.125	53.975
W10	10.000	254.000	14.625	371.475	4.000	101.600
RT756	10.000	254.000	20.000	508.000	3.750	95.250
51152	10.236	260.000	12.598	320.000	1.772	45.000
811 52	10.236	260.000	12.598	320.000	1.772	45.000
51252	10.236	260.000	14.173	360.000	3.110	79.000
812 52	10.236	260.000	14.173	360.000	3.110	79.000
952	10.236	260.000	14.764	375.000	3.543	90.000
XW10-1/2	10.500	266.700	13.000	330.200	2.125	53.975
XW11	11.000	279.400	13.750	349.250	2.375	60.320
W11	11.000	279.400	15.875	403.220	4.250	107.950
51156	11.024	280.000	13.780	350.000	2.087	53.000
811 56	11.024	280.000	13.780	350.000	2.087	53.000
51256	11.024	280.000	14.961	380.000	3.150	80.000
812 56	11.024	280.000	14.961	380.000	3.150	80.000
956	11.024	280.000	15.748	400.000	3.740	95.000
XW11-1/2	11.500	292.100	14.250	361.950	2.375	60.320
51160	11.811	300.000	14.961	380.000	2.441	62.000
811 60	11.811	300.000	14.961	380.000	2.441	62.000
51260	11.811	300.000	16.535	420.000	3.740	95.000
812 60	11.811	300.000	16.535	420.000	3.740	95.000
960	11.811	300.000	16.929	430.000	4.134	105.000
XW12	12.000	304.800	15.000	381.000	2.500	63.500
W12	12.000	304.800	17.375	441.330	4.500	114.300
XW12-1/2	12.500	317.500	15.500	393.700	2.625	66.680
51164	12.598	320.000	15.748	400.000	2.480	63.000
811 64	12.598	320.000	15.748	400.000	2.480	63.000
51264	12.598	320.000	17.323	440.000	3.740	95.000
812 64	12.598	320.000	17.323	440.000	3.740	95.000
XW13	13.000	330.200	16.250	412.750	2.750	69.850
51168	13.386	340.000	16.535	420.000	2.520	64.000



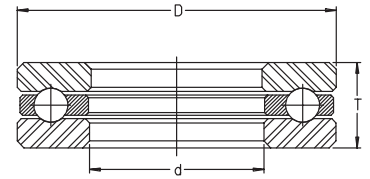
Thrust Bearing Selector

PART NUMBER AND SIZE

- Ball and roller thrust bearings
- Sorted by shaft dimension
- Series specific details can be found on subsequent pages.
Please refer to Section Contents or Index for the correct page numbers.



RT7 SHOWN FOR DIMENSIONAL REFERENCE



GT SHOWN FOR DIMENSIONAL REFERENCE

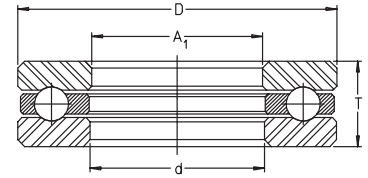
For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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PART NUMBER	SHAFT		OD		WIDTH	
	inch	mm	inch	mm	inch	mm
811 68	13.386	340.000	16.535	420.000	2.520	64.000
51268	13.386	340.000	18.110	460.000	3.780	96.000
812 68	13.386	340.000	18.110	460.000	3.780	96.000
140Z01	13.484	342.5	18.250	463.55	4.260	108.2
XW13-1/2	13.500	342.900	16.750	425.450	2.875	73.020
XW14	14.000	355.600	17.500	444.500	3.000	76.200
51172	14.173	360.000	17.323	440.000	2.559	65.000
811 72	14.173	360.000	17.323	440.000	2.559	65.000
51272	14.173	360.000	19.685	500.000	4.331	110.000
812 72	14.173	360.000	19.685	500.000	4.331	110.000
XW14-1/2	14.500	368.300	18.000	457.200	3.125	79.380
811 76	14.961	380.000	18.110	460.000	2.559	65.000
812 76	14.961	380.000	20.472	520.000	4.409	112.000
XW15	15.000	381.000	18.750	476.250	3.250	82.550
XW15-1/2	15.500	393.700	19.250	488.950	3.375	85.730
811 80	15.748	400.000	18.898	480.000	2.559	65.000
812 80	15.748	400.000	21.260	540.000	4.409	112.000
XW16	16.000	406.400	20.000	508.000	3.500	88.900
XW16-1/2	16.500	419.100	20.500	520.700	3.625	92.070
811 84	16.535	420.000	19.685	500.000	2.559	65.000
812 84	16.535	420.000	22.835	580.000	5.118	130.000
XW17	17.000	431.800	21.250	539.750	3.750	95.250
811 88	17.323	440.000	21.260	540.000	3.150	80.000
812 88	17.323	440.000	23.622	600.000	5.118	130.000
XW17-1/2	17.500	444.500	21.750	552.450	3.875	98.430
XW18	18.000	457.200	22.500	571.500	4.000	101.600
811 92	18.110	460.000	22.047	560.000	3.150	80.000
812 92	18.110	460.000	24.409	620.000	5.118	130.000
XW18-1/2	18.500	469.900	23.000	584.200	4.125	104.770
811 96	18.898	480.000	22.835	580.000	3.150	80.000
812 96	18.898	480.000	25.591	650.000	5.315	135.000
XW19	19.000	482.600	23.750	603.250	4.250	107.950
195X02	19.500	495.3	23.000	584.2	2.000	50.8
195X03	19.500	495.3	23.000	584.2	2.250	57.15
XW19-1/2	19.500	495.300	24.250	615.950	4.375	111.130
811/500	19.685	500.000	23.622	600.000	3.150	80.000
812/500	19.685	500.000	26.378	670.000	5.315	135.000
XW20	20.000	508.000	24.750	628.650	4.500	114.300
811/530	20.866	530.000	25.197	640.000	3.346	85.000
812/530	20.866	530.000	27.953	710.000	5.512	140.000
811/560	22.047	560.000	26.378	670.000	3.346	85.000
812/560	22.047	560.000	29.528	750.000	5.906	150.000
811/600	23.622	600.000	27.953	710.000	3.346	85.000
812/600	23.622	600.000	31.496	800.000	6.299	160.000

Ball Thrust Bearings

2000 SERIES

- Light/medium cross section
- Grooved race
- Single direction
- Separable axial contact
- Speed limit shown is for oil lubrication



- Part numbers shown in bold may **not** be readily available, please call to check availability.

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.

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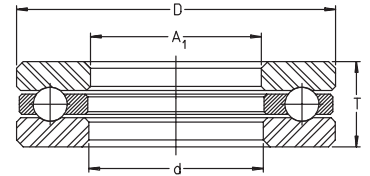
PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT kg	DYN. CAP. lbf	DYN. CAP. N	STAT. CAP. lbf	STAT. CAP. N	SPEED LIMIT rpm
2004	0.250	6.350	0.625	15.875	0.438	11.113	0.026	0.012	940	4200	1110	4950	18000
2044	0.313	7.938	0.675	17.145	0.281	7.144	0.018	0.008	980	4350	1240	5500	16000
2003	0.438	11.113	0.750	19.050	0.250	6.350	0.015	0.007	1070	4750	1530	6800	14000
2063	0.438	11.113	0.937	23.800	0.500	12.700	0.064	0.029	1510	6700	2160	9600	11000
2085	0.438	11.113	0.875	22.225	0.250	6.350	0.022	0.010	980	4350	1390	6200	13000
2002	0.500	12.700	0.750	19.050	0.438	11.113	0.026	0.012	540	2380	780	3450	13000
2097	0.500	12.700	0.875	22.225	0.563	14.288	0.057	0.026	1070	4750	1660	7400	11000
2458	0.500	12.700	1.062	26.975	0.312	7.925	0.042	0.019	1460	6500	2160	9600	10000
2006	0.625	15.875	1.000	25.400	0.500	12.700	0.057	0.026	1010	4500	1660	7400	9500
2043	0.625	15.875	1.250	31.750	0.563	14.288	0.115	0.052	2410	10700	3390	15100	8500
2132	0.625	15.875	1.125	28.575	0.563	14.288	0.090	0.041	2070	9200	3130	13900	9000
2005	0.750	19.050	1.250	31.750	0.563	14.288	0.104	0.047	2250	10000	3730	16600	8000
2009	0.750	19.050	1.250	31.750	0.438	11.113	0.077	0.035	2250	10000	3730	16600	8000
2007	0.813	20.638	1.250	31.750	0.500	12.700	0.084	0.038	1750	7800	3240	14400	7500
2011	0.875	22.225	1.375	34.925	0.563	14.288	0.117	0.053	2290	10200	4050	18000	7000
2001	0.938	23.813	1.500	38.100	0.500	12.700	0.119	0.054	2230	9900	4050	18000	6500
2008	1.000	25.400	1.500	38.100	0.625	15.875	0.146	0.066	2230	9900	4050	18000	6500
2010	1.000	25.400	1.750	44.450	0.563	14.288	0.196	0.089	3730	16600	6600	29500	5500
2087	1.000	25.400	1.625	41.275	0.563	14.288	0.165	0.075	4200	18700	7800	34500	6000
2209	1.063	26.988	1.687	42.850	0.625	15.875	0.203	0.092	4700	20900	9400	42000	5500
2024	1.125	28.575	1.875	47.625	0.563	14.288	0.227	0.103	2680	11900	6000	26500	5000
2283	1.188	30.163	1.938	49.212	0.531	13.494	0.207	0.094	3910	17400	7800	34500	4800
2096	1.250	31.750	2.000	50.800	0.813	20.638	0.368	0.167	3910	17400	7800	34500	4800
2092	1.438	36.513	3.250	82.550	1.313	33.338	1.910	0.867	19300	86000	34600	154000	3400
2282	1.625	41.275	2.381	60.477	0.656	16.662	0.350	0.157	4000	17800	8900	39500	3900
2041	1.688	42.863	2.375	60.325	0.563	14.288	0.260	0.120	4000	17800	8900	39500	3800
2023	2.000	50.800	3.500	88.900	1.625	41.275	2.590	1.175	22900	102000	48600	216000	2800
2280	2.000	50.800	3.250	82.550	0.813	20.638	0.900	0.406	9200	41000	22500	100000	2800
2281	2.500	63.500	3.688	93.662	0.938	23.813	1.190	0.541	12400	55000	30600	136000	2600
2279	3.250	82.550	4.499	114.262	1.125	28.575	1.940	0.881	16600	74000	44300	197000	2000
2278	3.750	95.250	5.061	128.549	1.281	32.544	2.710	1.227	17800	79000	51000	227000	1800
2284	4.625	117.475	5.997	152.320	1.500	38.100	4.060	1.840	22000	98000	67400	300000	1500



Ball Thrust Bearings

2900 SERIES

- Light cross section
- Grooved race
- Single race
- Separable axial contact
- Speed limit shown is for oil lubrication



- Part numbers shown in bold may **not** be readily available, please call to check availability.

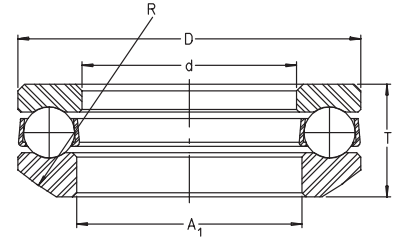
For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT kg	DYN. CAP. lbf	DYN. CAP. N	STAT. CAP. lbf	STAT. CAP. N	SPEED LIMIT rpm	BORE A ₁ inch	BORE A ₁ mm
2900	0.394	10	1.024	26	0.472	12	0.072	0.033	2630	11700	3395	15100	11000	0.402	10.211
2901	0.472	12	1.102	28	0.472	12	0.082	0.037	2110	9400	3125	13900	9500	0.480	12.192
2902	0.591	15	1.221	31	0.472	12	0.094	0.043	2320	10300	3730	16600	8500	0.598	15.189
2903	0.709	18	1.378	35	0.472	12	0.115	0.052	3350	14900	5960	26500	7500	0.717	18.212
2904	0.787	20	1.457	37	0.472	12	0.121	0.055	3350	14900	5960	26500	7500	0.795	20.193
2904-1/2	0.866	22	1.654	42	0.551	14	0.185	0.084	4900	21800	8430	37500	6000	0.874	22.200
2905	0.984	25	1.772	45	0.551	14	0.203	0.092	5010	22300	9100	40500	5500	0.992	25.197
2906	1.181	30	1.969	50	0.551	14	1.312	0.595	5100	22700	9800	43500	5000	1.189	30.201
2907	1.378	35	2.165	55	0.630	16	0.302	0.137	6200	27500	12100	54000	4400	1.386	35.204
2908	1.575	40	2.362	60	0.630	16	1.605	0.728	5960	26500	12100	54000	4000	1.583	40.208
2909	1.772	45	2.677	68	0.630	16	0.421	0.191	6500	29000	14600	65000	3600	1.780	45.212
2910	1.969	50	2.913	74	0.709	18	0.564	0.256	8300	37000	19800	88000	3200	1.976	50.190
2911	2.165	55	3.071	78	0.709	18	0.582	0.264	8400	37500	21000	93000	3000	2.173	55.194
2912	2.362	60	3.228	82	0.709	18	0.604	0.274	8800	39000	23000	102000	2800	2.370	60.198
2913	2.362	60	3.543	90	0.787	20	0.919	0.417	9700	43000	25000	111000	2600	2.567	65.202
2914	2.756	70	3.740	95	0.787	20	0.871	0.395	10200	45500	27000	122000	2400	2.764	70.206
2915	2.953	75	3.937	100	0.787	20	0.922	0.418	10300	46000	29000	127000	2300	2.961	75.209
2916	3.150	80	4.331	110	0.906	23	1.376	0.624	13500	60000	37000	166000	2100	3.157	80.188
2917	3.347	85	4.528	115	0.866	22	1.369	0.621	11900	53000	35000	156000	2000	3.354	85.192
2918	3.543	90	4.724	120	0.866	22	1.638	0.743	11900	53000	35000	156000	1900	3.551	90.195
2919	3.740	95	5.118	130	0.984	25	2.029	0.920	17800	79000	51000	227000	1800	3.748	95.199
2920	3.937	100	5.315	135	0.984	25	2.119	0.961	17800	79000	53000	237000	1700	3.945	100.203
2921	4.134	105	5.512	140	0.984	25	2.227	1.010	18200	81000	57000	255000	1600	4.142	105.207
2922	4.331	110	5.709	145	0.984	25	2.293	1.040	19100	85000	62000	275000	1600	4.339	110.211
2923	4.528	115	5.906	150	0.984	25	2.368	1.074	18200	81000	57000	255000	1500	4.535	115.189
2924	4.724	120	6.299	160	1.063	27	3.111	1.411	21000	95000	70000	310000	1400	4.732	120.193
2925	4.921	125	6.496	165	1.063	27	3.594	1.630	19800	88000	65000	290000	1400	4.929	125.197
2928	5.512	140	7.284	185	1.221	31	4.611	2.091	27000	121000	90000	400000	1200	5.520	140.208

Ball Thrust Bearings

4100 SERIES

- Medium cross section
 - Grooved race
 - Single direction
 - Separable axial contact
 - Static alignment $\approx \pm 3.0^\circ$
 - Available in non aligning 900 series
 - Speed limit shown is for oil lubrication
- Part numbers shown in bold may **not** be readily available, please call to check availability.



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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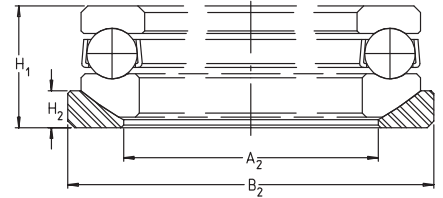
PART NUMBER	SHAFT	SHAFT	OD	OD	WIDTH	WIDTH	WEIGHT		DYN.	DYN.	STAT.	STAT.	SPEED	SEAT	BORE
	d	d	D	D	T	T	lbs	kg	CAP.	CAP.	CAP.	CAP.	LIMIT	RADIUS	
	inch	mm	inch	mm	inch	mm			lbf	N	lbf	N	rpm	R	A ₁
4100	0.394	10	0.984	25	0.556	14	0.079	0.036	2650	11800	3390	15100	11000	25	0.472
4102	0.591	15	1.378	35	0.591	15	0.154	0.070	4340	19300	6290	28000	8000	30	0.669
4104	0.787	20	1.575	40	0.630	16	0.201	0.091	4450	19800	6970	31000	6500	35	0.866
4105	0.984	25	1.890	48	0.669	17	0.293	0.133	5850	26000	10340	46000	5000	35	1.063
4106	1.181	30	2.087	53	0.709	18	0.331	0.150	5960	26500	11240	50000	4700	40	1.260
4107	1.378	35	2.441	62	0.827	21	0.562	0.255	7980	35500	15100	67000	4200	50	1.457
4108	1.575	40	2.520	64	0.827	21	0.490	0.222	8540	38000	17500	78000	3800	50	1.654
4109	1.772	45	2.874	73	0.984	25	0.900	0.408	10680	47500	23400	104000	3400	60	1.850
4110	1.969	50	3.071	78	0.984	25	0.849	0.385	12100	54000	27000	121000	3100	65	2.047
4111	2.165	55	3.465	88	1.102	28	1.422	0.645	15700	70000	36000	158000	2800	70	2.244
4112	2.362	60	3.543	90	1.102	28	1.200	0.544	12600	56000	31000	136000	2600	75	2.441
4113	2.559	65	3.937	100	1.260	32	1.985	0.900	14800	66000	36000	158000	2400	80	2.638
4114	2.756	70	4.055	103	1.260	32	1.799	0.816	16600	74000	42000	187000	2300	85	2.835
4115	2.953	75	4.331	110	1.260	32	2.262	1.026	16900	75000	44000	197000	2100	90	3.032
4116	3.150	80	4.528	115	1.378	35	2.300	1.043	20000	89000	51000	225000	2100	95	3.228
4117	3.347	85	4.921	125	1.496	38	3.493	1.584	24000	107000	62000	275000	1900	105	3.465
4118	3.543	90	5.315	135	1.496	38	3.601	1.633	27000	120000	67000	300000	1800	110	3.662
4119	3.740	95	5.512	140	1.614	41	4.736	2.148	30000	132000	80000	355000	1700	125	3.858
4120	3.937	100	5.906	150	1.614	41	4.900	2.222	31000	137000	80000	355000	1600	125	4.055
4121	4.134	105	6.102	155	1.811	46	6.476	2.937	38000	169000	99000	440000	1500	130	4.252
4122	4.331	110	6.299	160	1.811	46	6.800	3.084	39000	172000	106000	470000	1500	135	4.449
4123	4.528	115	6.496	165	1.929	49	7.512	3.407	39000	172000	106000	470000	1400	140	4.646
4124	4.724	120	6.693	170	1.929	49	7.887	3.577	41000	181000	117000	520000	1400	140	4.843
4125	4.921	125	6.890	175	2.087	53	8.910	4.041	41000	181000	117000	520000	1300	150	5.039
4126	5.118	130	7.087	180	2.087	53	8.996	4.080	37000	165000	106000	470000	1300	155	5.236
4128	5.512	140	7.874	200	2.362	60	13.614	6.174	53000	234000	155000	690000	1200	170	5.630
4130	5.906	150	8.661	220	2.362	60	16.500	7.483	63000	280000	180000	800000	1100	185	6.063
4132	6.299	160	9.252	235	2.559	65	20.910	9.483	73000	325000	225000	1000000	1000	198	6.457
4134	6.693	170	9.843	250	2.756	70	25.569	11.596	81000	360000	250000	1110000	950	210	6.850
4136	7.087	180	10.236	260	2.756	70	26.771	12.141	88000	390000	277000	1230000	900	220	7.244
4138	7.480	190	10.827	275	3.150	80	34.885	15.821	97000	430000	306000	1360000	850	235	7.638
4140	7.874	200	11.417	290	3.150	80	38.398	17.414	105000	465000	335000	1490000	800	245	8.302



Aligning Washers

4100 AW SERIES

- Used with 4100 series ball thrust bearings
- Order bearing separately



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.

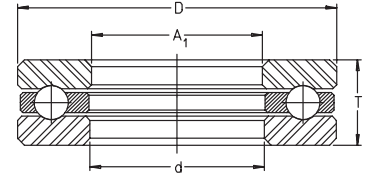
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PART NUMBER	SHAFT A ₂	SHAFT A ₂	OD B ₂	OD B ₂	WIDTH WASHER H ₂	WIDTH WASHER H ₂	WIDTH BEARING H ₁	WIDTH BEARING H ₁	WEIGHT WASHER	WEIGHT WASHER
	inch	mm	inch	mm	inch	mm	inch	mm	lbs	kg
4100AW	0.551	14	1.378	35	0.138	3.5	0.591	15	0.030	0.014
4102AW	0.748	19	1.496	38	0.197	5.0	0.669	17	0.050	0.023
4104AW	0.984	25	1.772	45	0.217	5.5	0.709	18	0.080	0.036
4105AW	1.339	34	0.197	5	0.236	6.0	0.748	19	0.070	0.032
4106AW	1.673	43	2.323	59	0.236	6.0	0.787	20	0.130	0.059
4107AW	1.693	43	2.638	67	0.276	7.0	0.906	23	0.160	0.073
4108AW	1.890	48	2.717	69	0.276	7.0	0.906	23	0.150	0.068
4109AW	2.087	53	3.071	78	0.315	8.0	1.063	27	0.240	0.109
4110AW	2.284	58	3.268	83	0.315	8.0	1.063	27	0.260	0.118
4111AW	2.598	66	3.701	94	0.315	8.0	1.181	30	0.310	0.141
4112AW	2.717	69	3.780	96	0.315	8.0	1.181	30	0.310	0.141
4113AW	2.913	74	4.134	105	0.354	9.0	1.339	34	0.420	0.191
4114AW	3.110	79	4.291	109	0.354	9.0	1.339	34	0.420	0.191
4115AW	3.307	84	4.488	114	0.394	10.0	1.339	34	0.420	0.191
4116AW	3.504	89	4.882	124	0.394	10.0	1.457	37	0.660	0.299
4117AW	3.780	96	5.433	138	0.413	10.5	1.575	40	0.950	0.431
4118AW	4.201	107	5.551	141	0.413	10.5	1.575	40	0.770	0.349
4119AW	4.213	107	5.945	151	0.492	12.5	1.732	44	1.200	0.544
4120AW	4.409	112	6.142	156	0.512	13.0	1.732	44	1.500	0.680
4121AW	4.646	118	6.417	163	0.551	14.0	1.929	49	1.600	0.726
4122AW	4.921	125	6.693	170	0.551	14.0	1.929	49	1.800	0.816
4123AW	5.039	128	6.811	173	0.551	14.0	2.047	52	1.800	0.816
4124AW	5.394	137	7.087	180	0.551	14.0	2.047	52	1.800	0.816
4125AW	5.472	139	7.323	186	0.551	14.0	2.205	56	1.800	0.816
4126AW	5.709	145	7.480	190	0.551	14.0	2.205	56	2.000	0.907
4128AW	6.102	155	8.347	212	0.610	15.5	2.441	62	3.100	1.406
4132AW	7.087	180	9.252	235	0.709	18.0	2.756	70	5.499	2.494
4130AW	7.165	182	8.663	220	0.630	16.0	2.559	65	5.499	2.494
4134AW	7.480	190	9.843	250	0.787	20.0	2.953	75	5.499	2.494
4136AW	7.953	202	10.236	260	0.748	19.0	2.953	75	6.600	2.993
4138AW	8.386	213	10.827	275	0.945	24.0	3.386	86	6.600	2.993
4140AW	8.819	224	11.417	290	0.866	22.0	3.386	86	6.600	2.993

Ball Thrust Bearings

4400 SERIES

- Medium cross section
- Grooved race
- Single direction
- Separable axial contact
- Speed limit shown is for oil lubrication



• Part numbers shown in bold may **not** be readily available, please call to check availability.

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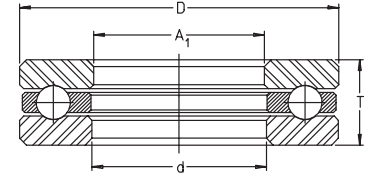
PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT kg	DYN. CAP. lbf	DYN. CAP. N	STAT. CAP. lbf	STAT. CAP. N	SPEED LIMIT rpm	BORE A ₁ inch	BORE A ₁ mm
4447	4.125	104.775	6.134	155.800	1.375	34.930	5.204	2.360	24000	107000	70000	310000	1500	4.156	105.562
4448	4.250	107.950	6.250	158.750	1.375	34.930	4.844	2.197	24000	107000	70000	310000	1500	4.281	108.737
4449	4.375	111.125	6.375	161.920	1.375	34.930	5.601	2.540	24000	107000	70000	310000	1500	4.406	111.912
4450	4.500	114.300	6.750	171.450	1.625	41.280	7.071	3.207	34000	153000	100000	445000	1400	4.531	115.087
4451	4.625	117.475	6.875	174.630	1.625	41.280	8.092	3.670	34000	153000	100000	445000	1400	4.656	118.262
4452	4.750	120.650	7.000	177.800	1.625	41.280	7.332	3.325	34000	153000	100000	445000	1300	4.781	121.437
4453	4.875	123.825	7.125	180.980	1.625	41.280	8.710	3.950	33000	149000	100000	445000	1300	4.906	124.612
4454	5.000	127.000	7.250	184.150	1.625	41.280	7.590	3.442	33000	149000	100000	445000	1300	5.031	127.787
4455	5.125	130.175	7.375	187.325	1.625	41.275	8.996	4.080	36000	159000	110000	490000	1300	5.156	130.962
4456	5.250	133.350	7.500	190.500	1.625	41.280	7.973	3.616	36000	159000	110000	490000	1200	5.281	134.137
4457	5.375	136.525	7.625	193.675	1.630	41.400	8.134	3.689	36000	159000	110000	490000	1200	5.406	137.312
4458	5.500	139.700	8.250	209.550	1.875	47.630	11.993	5.439	53000	234000	155000	690000	1200	5.531	140.487
4459	5.625	142.875	8.375	212.730	1.875	47.630	12.167	5.518	51000	228000	155000	690000	1100	5.656	143.662
4460	5.750	146.050	8.500	215.900	1.875	47.630	12.319	5.587	44000	197000	135000	600000	1100	5.781	146.837
4461	5.875	149.225	8.625	219.080	1.875	47.630	12.500	5.669	44000	197000	135000	600000	1100	5.906	150.012
4462	6.000	152.400	8.750	222.250	1.875	47.625	12.679	5.750	44000	197000	135000	600000	1100	6.031	153.187
4463	6.125	155.575	8.875	225.420	1.875	47.630	13.060	5.923	47000	210000	148000	660000	1000	6.156	156.362
4464	6.250	158.750	9.000	228.600	1.875	47.630	13.241	6.005	46000	204000	148000	660000	1000	6.281	159.537
4465	6.375	161.925	9.125	231.770	1.875	47.630	13.422	6.087	46000	204000	148000	660000	1000	6.406	162.712
4466	6.500	165.100	9.500	241.300	2.250	57.150	18.579	8.426	56000	250000	178000	790000	1000	6.531	165.887
4467	6.625	168.275	9.625	244.480	2.250	57.150	18.826	8.538	56000	250000	178000	790000	950	6.656	169.062
4468	6.750	171.450	9.750	247.650	2.250	57.150	19.367	8.783	60000	265000	196000	870000	950	6.781	172.237



Ball Thrust Bearings

51100 SERIES

- Light cross section
- Grooved race
- Single direction axial contact
- Separable components
- Speed limit shown is for oil lubrication



• Part numbers shown in bold may **not** be readily available, please call to check availability.

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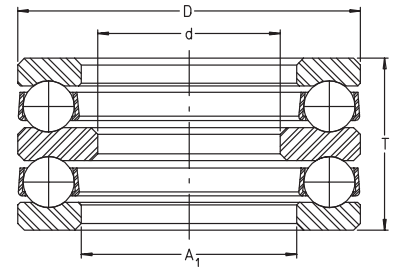
PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT kg	DYN. CAP. lbf	DYN. CAP. kN	STAT. CAP. lbf	STAT. CAP. kN	SPEED LIMIT rpm	BORE A ₁ inch	BORE A ₁ mm
51100	0.394	10	0.945	24	0.354	9	0.042	0.019	1910	8.5	2500	11.1	11000	0.433	10.998
51101	0.472	12	1.024	26	0.354	9	0.049	0.022	2180	9.7	3130	13.9	11000	0.512	13.005
51102	0.591	15	1.102	28	0.354	9	0.051	0.023	2360	10.5	3730	16.6	9500	0.630	16.002
51103	0.669	17	1.181	30	0.354	9	0.055	0.025	2290	10.2	3730	16.6	8500	0.709	18.009
51104	0.787	20	1.378	35	0.394	10	0.084	0.038	3350	14.9	5960	26.5	7500	0.827	21.006
51105	0.984	25	1.654	42	0.433	11	0.126	0.057	4200	18.7	7760	34.5	6000	1.024	26.010
51106	1.181	30	1.850	47	0.433	11	0.106	0.048	4360	19.4	8880	39.5	5000	1.220	30.988
51107	1.378	35	2.087	53	0.472	12	0.194	0.088	4180	18.6	9220	41	4500	1.417	35.992
51107X	1.378	35	2.047	52	0.472	12	0.183	0.083	4180	18.6	9220	41	4600	1.417	35.992
51108	1.575	40	2.362	60	0.512	13	0.26	0.118	5600	24.9	12600	56	4000	1.654	42.012
51109	1.772	45	2.559	65	0.551	14	0.315	0.143	5850	26	13900	62	3600	1.850	46.990
51110	1.969	50	2.756	70	0.551	14	0.346	0.157	6070	27	15500	69	3300	2.047	51.994
51111	2.165	55	3.071	78	0.630	16	0.496	0.225	6970	31	17300	77	3000	2.244	56.998
51112	2.362	60	3.347	85	0.669	17	0.631	0.286	8770	39	22900	102	2800	2.441	62.001
51113	2.559	65	3.543	90	0.709	18	0.708	0.321	9670	43	25000	111	2600	2.638	67.005
51114	2.756	70	3.740	95	0.709	18	0.759	0.344	10200	45.5	27000	122	2400	2.835	72.009
51115	2.953	75	3.937	100	0.748	19	0.862	0.391	10300	46	29000	127	2300	3.031	76.987
51116	3.150	80	4.134	105	0.748	19	0.931	0.422	9400	42	29000	130	2200	3.228	81.991
51117	3.347	85	4.331	110	0.748	19	0.972	0.441	9400	42	29000	130	2100	3.465	88.011
51118	3.543	90	4.724	120	0.866	22	1.424	0.646	11900	53	35000	156	1900	3.661	92.989
51120	3.937	100	5.315	135	0.984	25	2.119	0.961	17800	79	53000	237	1700	4.055	102.997
51122	4.331	110	5.709	145	0.984	25	2.335	1.059	19100	85	62000	275	1600	4.449	113.005
51124	4.724	120	6.102	155	0.984	25	2.476	1.123	18700	83	62000	275	1500	4.843	123.012
51126	5.118	130	6.693	170	1.181	30	3.740	1.696	22500	100	73000	325	1300	5.236	132.994
51128	5.512	140	7.087	180	1.221	31	4.172	1.892	22900	102	79000	350	1200	5.630	143.002
51130	5.906	150	7.480	190	1.221	31	4.492	2.037	24300	108	90000	400	1200	6.024	153.010
51132	6.299	160	7.874	200	1.221	31	4.708	2.135	24300	108	90000	400	1100	6.417	162.992
51134	6.693	170	8.465	215	1.339	34	6.143	2.786	28000	125	103000	460	1000	6.811	172.999
51136	7.087	180	8.858	225	1.339	34	6.478	2.938	29000	130	111000	495	1000	7.205	183.007
51138	7.480	190	9.449	240	1.457	37	9.51	4.313	34000	153	128000	570	950	7.598	192.989
51140	7.874	200	9.843	250	1.457	37	8.56	3.882	36000	160	137000	610	900	7.992	202.997
51144	8.661	220	10.630	270	1.457	37	9.283	4.210	36000	161	146000	650	800	8.780	223.012
51148	9.449	240	11.811	300	1.772	45	15.04	6.821	48000	214	189000	840	750	9.567	243.002
51152	10.236	260	12.598	320	1.772	45	16.134	7.317	48000	215	202000	900	700	10.354	262.992
51156	11.024	280	13.780	350	2.087	53	24.202	10.976	65000	290	265000	1180	650	11.142	283.007
51160	11.811	300	14.961	380	2.441	62	35.514	16.106	81000	360	337000	1500	600	11.929	302.997
51164	12.598	320	15.748	400	2.480	63	38.14	17.297	89000	395	375000	1670	550	12.716	322.986
51168	13.386	340	16.535	420	2.520	64	40.673	18.446	89000	395	375000	1670	550	13.503	342.976
51172	14.173	360	17.323	440	2.559	65	43.432	19.697	98000	435	416000	1850	500	14.291	362.991



Ball Thrust Bearings

52200 & 52300 SERIES

- Metric series
- Double direction – flat seat
- Separable axial contact
- Speed limit shown is for oil lubrication
- Part numbers shown in bold may **not** be readily available, please call to check availability.



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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PART NUMBER	SHAFT	SHAFT	OD	OD	WASHER	WASHER	WIDTH	WIDTH	CENTER	CENTER	WEIGHT	WEIGHT	DYN.	DYN.	STA.	STA.	SPEED
	d	d	D	D	BORE	BORE	T	T	THICKNESS	THICKNESS			CAP.	CAP.	CAP.	CAP.	LIMIT
	inch	mm	inch	mm	A ₁	A ₁	inch	mm	B	B	lbs	kg	lbf	N	lbf	N	rpm
52202	0.394	10	1.260	32	0.669	17	22.000	22	0.197	5	0.179	0.081	3,700	16500	5,600	25000	7000
52204	0.591	15	1.575	40	0.866	22	1.024	26	0.236	6	0.331	0.150	5,100	22500	8,400	37500	6000
52205	0.787	20	1.850	47	1.063	27	1.102	28	0.276	7	0.485	0.220	6,200	27600	11,200	50000	5300
52206	0.984	25	2.047	52	1.260	32	1.142	29	0.276	7	0.551	0.250	5,700	25500	10,700	47500	4800
52207	1.181	30	2.441	62	1.457	37	1.339	34	0.315	8	0.904	0.410	7,900	35100	15,100	67000	4000
52208	1.181	30	2.677	68	1.654	42	1.417	36	0.354	9	1.213	0.550	10,500	46800	22,000	98000	4000
52209	1.378	35	2.874	73	1.850	47	1.457	37	0.354	9	1.323	0.600	8,800	39000	18,000	80000	3600
52210	1.575	40	3.071	78	2.047	52	1.535	39	0.354	9	1.566	0.710	11,100	49400	23,800	106000	3400

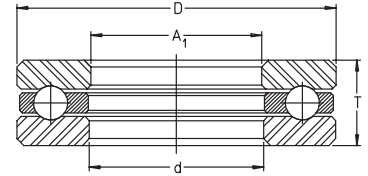
PART NUMBER	SHAFT	SHAFT	OD	OD	WASHER	WASHER	WIDTH	WIDTH	CENTER	CENTER	WEIGHT	WEIGHT	DYN.	DYN.	STA.	STA.	SPEED
	d	d	D	D	BORE	BORE	T	T	THICKNESS	THICKNESS			CAP.	CAP.	CAP.	CAP.	LIMIT
	inch	mm	inch	mm	A ₁	A ₁	inch	mm	B	B	lbs	kg	lbf	N	lbf	N	rpm
52305	0.787	20	2.047	52	1.063	27	1.339	34	0.315	8	0.728	0.330	7,800	34500	12,400	55000	4500
52306	0.984	25	2.362	60	1.260	32	1.496	38	0.354	9	1.036	0.470	8,500	37700	14,700	65500	3800
52307	1.181	30	2.677	68	1.457	37	1.732	44	0.354	9	1.499	0.680	11,100	49400	19,800	88000	3400
52308	1.181	30	3.071	78	1.654	42	1.929	49	0.394	10	2.315	1.050	13,900	61800	25,200	112000	3000
52309	1.378	35	3.346	85	1.850	47	2.047	52	0.472	12	2.756	1.250	17,100	76100	31,500	140000	2800
52310	1.575	40	3.740	95	2.047	52	2.283	58	0.551	14	3.859	1.750	19,900	88400	38,900	173000	2600



Ball Thrust Bearings

900 SERIES

- Medium cross section
- Grooved race
- Single direction
- Available as self aligning 4100/4100AW series
- Separable axial contact
- Speed limit shown is for oil lubrication



- Part numbers shown in bold may **not** be readily available, please call to check availability.

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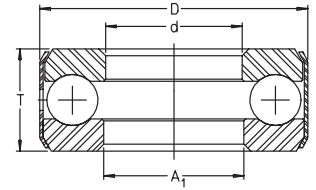
PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT kg	DYN. CAP. lbf	DYN. CAP. kN	STAT. CAP. lbf	STAT. CAP. kN	SPEED LIMIT rpm	BORE A ₁ inch	BORE A ₁ mm
900	0.394	10	0.984	25	0.472	12	0.067	0.030	2650	11.8	3390	15.1	11000	0.402	10.211
902	0.591	15	1.378	35	0.551	14	0.143	0.065	4340	19.3	6290	28	8000	0.598	15.189
904	0.787	20	1.575	40	0.551	14	0.169	0.077	4450	19.8	6970	31	6500	0.795	20.193
905	0.984	25	1.890	48	0.610	15.5	0.265	0.120	5850	26	10300	46	5000	0.992	25.197
906	1.181	30	2.087	53	0.610	15.5	0.298	0.135	5960	26.5	11200	50	4700	1.189	30.201
907	1.378	35	2.441	62	0.709	18	0.467	0.212	7980	35.5	15100	67	4200	1.386	35.204
908	1.575	40	2.520	64	0.709	18	0.465	0.211	8540	38	17500	78	3800	1.583	40.208
909	1.772	45	2.874	73	0.866	22	0.782	0.355	10700	47.5	23400	104	3400	1.780	45.212
910	1.969	50	3.071	78	0.866	22	0.843	0.382	12100	54	27000	121	3100	1.976	50.19
911	2.165	55	3.465	88	0.965	24.5	1.225	0.556	15700	70	36000	158	2800	2.173	55.194
912	2.362	60	3.543	90	0.965	24.5	1.186	0.538	12600	56	31000	136	2600	2.370	60.198
913	2.559	65	3.937	100	1.063	27	1.629	0.739	14800	66	36000	158	2400	2.567	65.202
914	2.756	70	4.055	103	1.063	27	1.670	0.757	16600	74	42000	187	2300	2.764	70.206
915	2.953	75	4.331	110	1.063	27	1.865	0.846	16900	75	44000	197	2100	2.961	75.209
916	3.150	80	4.528	115	1.142	29	2.119	0.961	20000	89	51000	225	2100	3.228	81.991
917	3.347	85	4.921	125	1.201	30.5	2.703	1.226	24000	107	62000	275	1900	3.354	85.192
918	3.543	90	5.315	135	1.201	30.5	3.067	1.391	27000	120	67000	300	1800	3.551	90.195
919	3.740	95	5.512	140	1.280	32.5	3.603	1.634	30000	132	80000	355	1700	3.748	95.199
920	3.937	100	5.906	150	1.280	32.5	7.380	3.347	31000	137	80000	355	1600	3.945	100.203
921	4.134	105	6.102	155	1.575	40	5.541	2.513	38000	169	99000	440	1500	4.142	105.207
922	4.331	110	6.299	160	1.575	40	6.196	2.810	39000	172	106000	470	1500	4.339	110.211
923	4.528	115	6.496	165	1.693	43	6.518	2.956	39000	172	106000	470	1400	4.535	115.189
924	4.724	120	6.693	170	1.693	43	6.858	3.110	41000	181	117000	520	1400	4.732	120.193
925	4.921	125	6.890	175	1.831	46.5	7.757	3.518	41000	181	117000	520	1300	4.929	125.197
926	5.118	130	7.087	180	1.831	46.5	8.401	3.810	40000	177	117000	520	1300	5.126	130.2
928	5.512	140	7.874	200	2.047	52	11.660	5.288	53000	234	155000	690	1200	5.520	140.208
930	5.906	150	8.661	220	2.165	55	16.008	7.260	63000	280	180000	800	1100	5.913	150.19
932	6.299	160	9.252	235	2.362	60	19.309	8.757	73000	325	225000	1000	1000	6.319	160.503
934	6.693	170	9.843	250	2.559	65	26.019	11.800	81000	360	250000	1110	950	6.713	170.51
936	7.087	180	10.236	260	2.559	65	24.910	11.297	88000	390	277000	1230	900	7.106	180.492
938	7.480	190	10.827	275	2.756	70	31.973	14.500	97000	430	306000	1360	850	7.500	190.5
940	7.874	200	11.417	290	2.756	70	33.148	15.033	105000	465	335000	1490	800	7.894	200.508
944	8.661	220	12.402	315	3.150	80	48.069	21.800	102000	455	335000	1490	750	8.681	220.497
948	9.449	240	13.583	345	3.347	85	56.510	25.628	142000	630	468000	2080	700	9.468	240.487
952	10.236	260	14.764	375	3.543	90	63.063	28.600	162000	720	542000	2410	650	10.256	260.502
956	11.024	280	15.748	400	3.740	95	83.228	37.745	182000	810	623000	2770	600	11.043	280.492
960	11.811	300	16.929	430	4.134	105	115.326	52.302	205000	910	708000	3150	550	11.831	300.507



Ball Thrust Bearings

B SERIES

- Banded assembly – Non-separable
- Medium cross section
- Grooved race
- Single direction
- Oil hole in band – Standard
- Speed limit shown is for oil lubrication



• Part numbers shown in bold may **not** be readily available, please call to check availability.

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.

For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

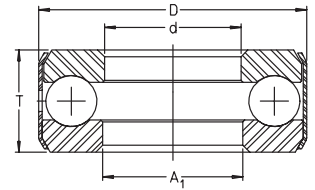
PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT kg	DYN. CAP. lbf	DYN. CAP. N	STAT. CAP. lbf	STAT. CAP. N	SPEED LIMIT rpm	BORE A ₁ inch
B1	0.500	12.700	1.219	30.956	0.625	15.880	0.132	0.060	3850	17100	5600	24900	7000	0.531
B2	0.563	14.288	1.219	30.960	0.625	15.880	0.130	0.059	3850	17100	5600	24900	7000	0.594
B3	0.625	15.875	1.344	34.138	0.625	15.875	0.154	0.070	4100	18200	6700	29800	6000	0.656
B4	0.688	17.463	1.344	34.140	0.625	15.880	0.148	0.067	4100	18200	6700	29800	6000	0.719
B5	0.750	19.050	1.469	37.313	0.625	15.880	0.174	0.079	4250	18900	7300	32500	5500	0.781
B6	0.813	20.638	1.469	37.310	0.625	15.880	0.165	0.075	4250	18900	7300	32500	5500	0.844
B7	0.875	22.225	1.844	46.840	0.750	19.050	0.344	0.156	6600	29400	12200	54300	4100	0.906
B8	0.938	23.813	1.844	46.838	0.750	19.050	0.333	0.151	6600	29400	12200	54300	4100	0.969
B9	1.000	25.400	1.969	50.010	0.750	19.050	0.370	0.168	8500	37800	15100	67000	4000	1.031
B10	1.063	26.988	1.969	50.012	0.750	19.050	0.357	0.162	8500	37800	15100	67000	4000	1.094
B11	1.125	28.575	2.094	53.190	0.750	19.050	0.399	0.181	8800	39100	16300	73000	3700	1.156
B12	1.188	30.163	2.094	53.190	0.750	19.050	0.386	0.175	8800	39100	16300	73000	3700	1.219
B13	1.250	31.750	2.344	59.538	0.750	19.050	0.490	0.222	9300	41400	18800	84000	3200	1.281
B14	1.313	33.338	2.344	59.540	0.750	19.050	0.481	0.218	9300	41400	18800	84000	3200	1.354
B15	1.375	34.925	2.469	62.713	0.750	19.050	0.527	0.239	9500	42300	20100	89000	3000	1.406
B16	1.438	36.513	2.469	62.710	0.750	19.050	0.512	0.232	9500	42300	20100	89000	3000	1.469
B17	1.500	38.100	2.594	65.888	0.750	19.050	0.556	0.252	9800	43600	21400	95000	2800	1.531
B18	1.563	39.688	2.594	65.890	0.750	19.050	0.540	0.245	9800	43600	21400	95000	2800	1.594
B19	1.625	41.275	2.969	75.410	0.875	22.220	0.869	0.394	12600	56000	27500	122000	2600	1.656
B20	1.688	42.863	2.969	75.410	0.875	22.220	0.845	0.383	12600	56000	27500	122000	2600	1.719
B21	1.750	44.450	3.094	78.590	0.875	22.220	0.922	0.418	12900	57400	29000	129000	2400	1.781
B22	1.813	46.038	3.094	78.590	0.875	22.220	0.895	0.406	12900	57400	29000	129000	2400	1.844
B23	1.875	47.625	3.219	81.760	0.875	22.220	0.968	0.439	13200	58700	31000	138000	2300	1.906
B24	1.938	49.213	3.219	81.760	0.875	22.220	0.942	0.427	13200	58700	31000	138000	2300	1.969
B25	2.000	50.800	3.344	84.940	0.875	22.220	1.017	0.461	13400	59600	32500	145000	2200	2.031
B26	2.063	52.388	3.344	84.940	0.875	22.220	0.986	0.447	13400	59600	32500	145000	2200	2.094
B27	2.125	53.975	3.594	91.290	0.875	22.225	1.166	0.529	13600	60000	34000	151000	2100	2.156
B28	2.188	55.563	3.594	91.290	0.875	22.220	1.140	0.517	13600	60000	34000	151000	2100	2.219
B29	2.250	57.150	3.719	80.747	0.875	22.220	1.235	0.560	14000	62000	36000	160000	2000	2.281
B30	2.313	58.738	3.719	94.460	0.875	22.220	1.191	0.540	14000	62000	36000	160000	2000	2.344
B31	2.375	60.325	3.844	97.640	0.875	22.220	1.270	0.576	14200	63000	37500	167000	1900	2.406
B32	2.438	61.913	3.844	97.640	0.875	22.225	1.237	0.561	14200	63000	37500	167000	1900	2.469
B33	2.500	63.500	3.969	100.813	0.875	22.225	1.343	0.609	14300	64000	39500	176000	1800	2.531
B34	2.563	65.088	3.969	100.813	0.875	22.225	1.299	0.589	14300	64000	39500	176000	1800	2.594
B35	2.625	66.675	4.344	110.340	1.125	28.580	2.229	1.011	21100	94000	54000	240000	1700	2.656
B36	2.688	68.263	4.344	110.340	1.125	28.580	2.152	0.976	21100	94000	54000	240000	1700	2.719
B37	2.750	69.850	4.469	113.510	1.125	28.580	2.265	1.027	21400	95000	57000	254000	1600	2.781
B38	2.813	71.438	4.469	113.510	1.125	28.580	2.216	1.005	21400	95000	57000	254000	1600	2.844
B39	2.938	74.613	4.594	116.690	1.125	28.580	2.428	1.101	21400	95000	57000	254000	1600	2.969
B40	3.000	76.200	4.719	119.860	1.125	28.580	2.578	1.169	22100	98000	59000	262000	1500	3.031
B41	3.250	82.550	4.969	126.210	1.125	28.580	2.683	1.217	22300	99000	62000	276000	1500	3.281
B42	3.500	88.900	5.219	132.560	1.125	28.580	2.847	1.291	23100	103000	68000	302000	1300	3.531



Ball Thrust Bearings

D SERIES

- Banded assembly – Non-separable
- Medium cross section
- Grooved race
- Single direction
- Oil hole in band – Standard
- Dimensionally interchangeable with GT, FT or RTL series
- Speed limit shown is for oil lubrication
- Part numbers shown in bold may **not** be readily available, please call to check availability.



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.

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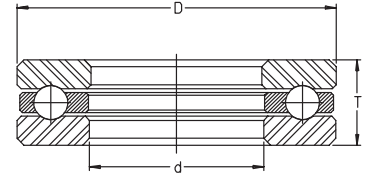
PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT g	DYN. CAP. lbf	DYN. CAP. N	STAT. CAP. lbf	STAT. CAP. N	SPEED LIMIT rpm	A ₁ BORE inch
D1	0.500	12.700	1.219	30.963	0.563	14.300	0.12	54	3850	17100	5600	24900	7000	0.531
D2	0.563	14.288	1.219	30.963	0.563	14.300	0.11	51	3850	17100	5600	24900	7000	0.594
D3	0.625	15.875	1.344	34.138	0.563	14.300	0.14	63	4100	18200	6700	29800	6000	0.656
D4	0.688	17.463	1.344	34.138	0.563	14.300	0.13	60	4100	18200	6700	29800	6000	0.719
D5	0.750	19.050	1.469	37.313	0.563	14.300	0.15	70	4250	18900	7300	32500	5500	0.781
D6	0.813	20.638	1.469	37.313	0.563	14.300	0.15	66	4250	18900	7300	32500	5500	0.844
D7	0.875	22.225	1.844	46.838	0.625	15.875	0.28	127	6600	29400	12200	54000	4100	0.906
D8	0.938	23.813	1.844	46.838	0.625	15.875	0.27	122	6600	29400	12200	54000	4100	0.969
D9	1.000	25.400	1.969	50.013	0.625	15.875	0.3	138	6700	29800	13100	58000	3800	1.031
D10	1.063	26.988	1.969	50.013	0.625	15.875	0.29	133	6700	29800	13100	58000	3800	1.094
D11	1.125	28.575	2.094	53.188	0.625	15.875	0.33	148	6900	30700	14000	62000	3600	1.156
D12	1.188	30.163	2.094	53.188	0.625	15.875	0.31	142	6900	30700	14000	62000	3600	1.219
D13	1.250	31.750	2.344	59.538	0.625	15.875	0.4	181	7200	32000	15700	70000	3200	1.281
D14	1.313	33.338	2.344	59.538	0.625	15.875	0.39	176	7200	32000	15700	70000	3200	1.344
D15	1.375	34.925	2.469	62.713	0.625	15.875	0.43	196	7300	32500	16600	74000	3000	1.406
D16	1.438	36.513	2.469	65.888	0.625	15.875	0.42	190	7300	32500	16600	74000	3000	1.469
D17	1.500	38.100	2.594	65.888	0.625	15.875	0.46	209	7700	34000	18300	81000	2800	1.531
D17A1	1.500	38.100	2.545	64.643	0.629	15.99	0.46	209	7700	34000	18300	81000	2800	1.521
D18	1.563	39.688	2.594	65.888	0.625	15.875	0.45	204	7700	34000	18300	81000	2800	1.594
D19	1.625	41.275	2.969	75.413	0.813	20.650	0.83	378	10300	46000	25000	111000	2400	1.656
D20	1.688	42.863	2.969	75.413	0.813	20.650	0.81	366	10300	46000	25000	111000	2400	1.719
D21	1.750	44.450	3.094	78.588	0.813	20.650	0.9	406	10600	47000	26500	118000	2300	1.781
D22	1.813	46.038	3.094	78.588	0.813	20.650	0.86	388	10600	47000	26500	118000	2300	1.844
D23	1.875	47.625	3.219	81.763	0.813	20.650	0.94	426	10800	48000	27500	122000	2200	1.906
D24	1.938	49.213	3.219	81.763	0.813	20.650	0.91	412	10800	48000	27500	122000	2200	1.969
D25	2.000	50.800	3.344	84.938	0.813	20.650	0.96	433	10800	48000	29000	129000	2100	2.031
D26	2.063	52.388	3.344	84.938	0.813	20.650	0.94	424	10800	48000	29000	129000	2100	2.094
D27	2.125	53.975	3.594	91.288	0.813	20.650	1.12	510	11100	49000	30000	133000	2000	2.156
D28	2.188	55.563	3.594	91.288	0.813	20.650	1.09	495	11100	49000	30000	133000	2000	2.219
D29	2.250	57.150	3.719	94.463	0.813	20.650	1.17	530	11200	50000	31500	140000	1900	2.281
D30	2.313	58.738	3.719	94.463	0.813	20.650	1.13	514	11200	50000	31500	140000	1900	2.344
D31	2.375	60.325	3.844	97.638	0.813	20.650	1.22	551	11500	51000	32500	145000	1900	2.406
D32	2.438	61.913	3.844	97.638	0.813	20.650	1.19	538	11500	51000	32500	145000	1900	2.469
D33	2.500	63.500	3.969	100.813	0.813	20.650	1.28	580	11500	51000	34000	151000	1800	2.531
D34	2.563	65.088	3.969	100.813	0.813	20.650	1.24	560	11500	51000	34000	151000	1800	2.594
D35	2.625	66.675	4.344	110.338	1.000	25.400	1.95	886	18100	81000	49000	218000	1600	2.656
D36	2.688	68.263	4.344	110.338	1.000	25.400	1.88	854	18100	81000	49000	218000	1600	2.719
D37	2.750	69.850	4.469	113.513	1.000	25.400	1.97	896	18200	81000	51000	227000	1600	2.781
D38	2.813	71.438	4.469	113.513	1.000	25.400	1.93	877	18200	81000	51000	227000	1600	2.844
D39	2.938	74.613	4.594	116.688	1.000	25.400	2.11	956	18200	81000	51000	227000	1600	2.969
D39-1/2	3.000	76.200	4.594	116.688	1.000	25.400	2.05	928	18200	81000	51000	227000	1600	3.063
D40	3.000	76.200	4.719	119.863	1.000	25.400	2.23	1010	18700	83000	54000	240000	1500	3.031
D41	3.250	82.550	4.969	126.213	1.000	25.400	2.34	1061	18800	84000	56000	249000	1500	3.281
D42	3.500	88.900	5.219	132.563	1.000	25.400	2.48	1125	19200	85000	60000	267000	1400	3.531



Ball Thrust Bearings

DL SERIES

- Light cross section
- Grooved race
- Single direction axial ball
- Separable
- Speed limit shown is for oil lubrication



• Part numbers shown in bold may **not** be readily available, please call to check availability.

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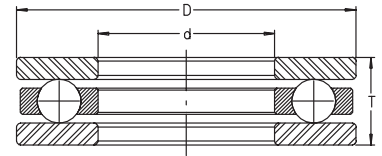
PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT kg	DYN. CAP. lbf	DYN. CAP. kN	STAT. CAP. lbf	STAT. CAP. kN	SPEED LIMIT rpm
DL12	0.472	12	0.906	23	0.354	9	0.036	0.016	1510	6.7	2160	9.6	11000
DL15	0.591	15	1.024	26	0.354	9	0.146	0.066	1620	7.2	2600	11.6	10000
DL17	0.669	17	1.102	28	0.374	9.5	0.050	0.023	1600	7.1	2600	11.6	9000
DL20	0.787	20	1.535	39	0.520	13.2	0.120	0.054	2380	10.6	4350	19.4	7000
DL25	0.984	25	1.772	45	0.551	14	0.199	0.090	3750	16.6	6600	29.5	5500
DL30	1.181	30	2.087	53	0.610	15.5	0.280	0.127	3900	17.4	7800	34.5	4800
DL35	1.378	35	2.244	57	0.681	17.3	0.367	0.166	6200	27.5	12100	54.0	4400
DL40	1.575	40	2.520	64	0.748	19	0.500	0.227	6000	26.5	12100	54.0	4000
DL45	1.772	45	2.835	72	0.886	22.5	0.777	0.352	9400	42.0	21100	94.0	3300
DL50	1.969	50	3.150	80	0.965	24.5	1.300	0.590	12100	54.0	27000	121.0	3100
DL55	2.165	55	3.465	88	1.102	28	1.409	0.639	10900	48.5	23800	106.0	2800
DL60	2.362	60	3.858	98	1.201	30.5	2.205	1.000	12400	55.0	30500	136.0	2500
DL65	2.559	65	4.055	103	1.240	31.5	2.163	0.981	14800	66.0	35500	158.0	2400
DL70	2.756	70	4.252	108	1.260	32	2.403	1.090	16400	73.0	42000	187.0	2200
DL75	2.953	75	4.409	112	1.280	32.5	2.489	1.129	16900	75.0	44500	197.0	2100
DL80	3.150	80	4.646	118	1.339	34	2.800	1.270	19600	87.0	50500	225.0	2000
DL85	3.347	85	4.921	125	1.339	34	3.105	1.408	24100	107.0	62000	275.0	1900
DL90	3.543	90	5.276	134	1.496	38	3.991	1.810	23600	105.0	62000	275.0	1800
DL95	3.740	95	5.512	140	1.496	38	4.399	1.995	29500	132.0	80000	355.0	1700
DL100	3.937	100	6.063	154	1.634	41.5	5.402	2.450	31000	137.0	80000	355.0	1600



Ball Thrust Bearings

EW SERIES

- Light cross section
- Flat race
- Single direction
- Speed limit shown is for oil lubrication



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.

For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT g	DYN. CAP. lbf	DYN. CAP. N	STAT. CAP. lbf	STAT. CAP. N	SPEED LIMIT rpm
EW-1/4	0.250	6.350	0.656	16.662	0.250	6.350	0.020	9.07	285	1260	101	450	18000
EW-5/16	0.313	7.938	0.750	19.050	0.250	6.350	0.018	7.94	325	1440	134	600	15000
EW-3/8	0.375	9.525	0.813	20.650	0.250	6.350	0.019	8.77	310	1390	134	600	13000
EW-1/2	0.500	12.700	0.969	24.610	0.250	6.350	0.026	11.79	390	1740	201	900	11000
EW-5/8	0.625	15.875	1.094	27.788	0.281	7.140	0.033	15.00	520	2320	260	1170	9500
EW-3/4	0.750	19.050	1.313	33.350	0.281	7.140	0.047	21.11	550	2470	315	1400	7500
EW-7/8	0.875	22.225	1.500	38.100	0.375	9.525	0.085	38.38	780	3450	455	2010	6500
EW1	1.000	25.400	1.625	41.280	0.375	9.530	0.092	41.90	760	3350	455	2010	6000
EW1-1/8	1.125	28.575	1.750	44.450	0.375	9.530	0.102	46.25	810	3600	530	2350	5500
EW1-1/4	1.250	31.750	2.063	52.400	0.500	12.700	0.204	92.67	1300	5800	810	3600	4800
EW1-3/8	1.375	34.925	2.188	55.575	0.500	12.700	0.222	100.79	1400	6200	940	4200	4400
EW1-1/2	1.500	38.100	2.313	58.750	0.500	12.700	0.242	109.95	1580	7000	1140	5100	4300
EW1-5/8	1.625	41.275	2.438	61.930	0.500	12.700	0.254	114.99	1470	6500	1070	4750	3900
EW1-3/4	1.750	44.450	2.625	66.675	0.625	15.875	0.387	175.66	1840	8200	1360	6000	3600
EW1-7/8	1.875	47.625	2.750	69.850	0.625	15.875	0.406	184.34	1810	8100	1360	6000	3400
EW2	2.000	50.800	2.875	73.020	0.625	15.875	0.427	193.62	1780	7900	1360	6000	3200
EW2-1/4	2.250	57.150	3.125	79.380	0.625	15.875	0.471	213.38	1870	8300	1530	6800	2900

Ball Thrust Bearings

FT SERIES

- Medium cross section
- Flat race inch series
- Single direction
- Dimensionally interchangeable with D, GT, and RTL series
- Separable axial contact
- Speed limit shown is for oil lubrication
- Part numbers shown in bold may **not** be readily available, please call to check availability.



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.

For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

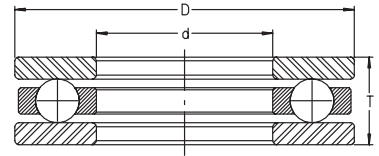
PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT kg	DYN. CAP. lbf	DYN. CAP. N	STAT. CAP. lbf	STAT. CAP. N	SPEED LIMIT rpm
FT1	0.500	12.700	1.219	30.963	0.563	14.300	0.121	0.055	750	3350	375	1680	6500
FT2	0.563	14.288	1.219	30.963	0.563	14.300	0.115	0.052	740	3300	375	1680	6500
FT3	0.625	15.875	1.344	34.138	0.563	14.300	0.139	0.063	770	3400	415	1850	6000
FT4	0.688	17.463	1.344	34.138	0.563	14.300	0.130	0.059	770	3400	415	1850	6000
FT5	0.750	19.050	1.469	37.313	0.563	14.300	0.159	0.072	880	3800	530	2350	5000
FT6	0.813	20.638	1.469	37.313	0.563	14.300	0.150	0.068	880	3900	530	2350	5500
FT7	0.875	22.225	1.844	46.838	0.625	15.875	0.278	0.126	1520	6700	940	4200	4300
FT8	0.938	23.813	1.844	46.838	0.625	15.875	0.267	0.121	1520	6700	940	4200	4300
FT9	1.000	25.400	1.969	50.013	0.625	15.875	0.300	0.136	1520	6700	940	4200	4300
FT10	1.063	26.988	1.969	50.013	0.625	15.875	0.289	0.131	1520	6700	940	4200	4300
FT11	1.125	28.575	2.094	53.188	0.625	15.875	0.324	0.147	1510	6700	1010	4500	3600
FT12	1.188	30.163	2.094	53.188	0.625	15.875	0.311	0.141	1510	6700	1010	4500	3600
FT13	1.250	31.750	2.344	59.538	0.625	15.875	0.404	0.183	1520	6800	1070	4750	3300
FT14	1.313	33.338	2.344	59.538	0.625	15.875	0.388	0.176	1520	6800	1070	4750	3300
FT15	1.375	34.925	2.469	62.713	0.625	15.875	0.432	0.196	1610	7200	1210	5400	3000
FT16	1.438	36.513	2.469	62.713	0.625	15.875	0.417	0.189	1610	7200	1210	5400	3000
FT17	1.500	38.100	2.594	65.888	0.625	15.875	0.441	0.200	1690	7500	1340	6000	2800
FT18	1.563	39.688	2.594	65.888	0.625	15.875	0.421	0.191	1690	7500	1340	6000	2800
FT19	1.625	41.275	2.969	75.413	0.813	20.638	0.842	0.382	2390	10600	1890	8400	2400
FT20	1.688	42.863	2.969	75.413	0.813	20.638	0.818	0.371	2450	10900	1890	8400	2600
FT21	1.750	44.450	3.094	78.588	0.813	20.638	0.893	0.405	2600	11500	2100	9300	2400
FT22	1.813	46.038	3.094	78.588	0.813	20.638	0.864	0.392	2600	11500	2100	9300	2400
FT23	1.875	47.625	3.219	81.763	0.813	20.638	0.935	0.424	2550	11300	2100	9300	2300
FT24	1.938	49.213	3.219	81.763	0.813	20.638	0.904	0.410	2600	11600	2100	9300	2500
FT25	2.000	50.800	3.344	84.938	0.813	20.638	0.977	0.443	2440	10900	2100	9300	2000
FT26	2.063	52.388	3.344	84.938	0.813	20.638	0.944	0.428	2500	11200	2100	9300	2200
FT27	2.125	53.975	3.594	91.288	0.813	20.638	1.085	0.492	3350	14900	2700	12100	2000
FT28	2.188	55.563	3.594	91.288	0.813	20.638	1.054	0.478	3350	14900	2700	12100	2000
FT29	2.250	57.150	3.719	94.463	0.813	20.638	1.140	0.517	3550	15900	3000	13400	2000
FT30	2.313	58.738	3.719	94.463	0.813	20.638	1.107	0.502	3500	15600	3000	13400	1900
FT31	2.375	60.325	3.844	97.638	0.813	20.638	1.173	0.532	3400	15100	2850	12800	1900
FT32	2.438	61.913	3.844	97.638	0.813	20.638	1.140	0.517	3400	15100	2850	12800	1900
FT33	2.500	63.500	3.969	100.813	0.813	20.638	1.233	0.559	3600	15900	3150	14100	1800
FT34	2.563	65.088	3.969	100.813	0.813	20.638	1.195	0.542	3600	15900	3150	14100	1800
FT35	2.625	66.675	4.344	110.338	1.000	25.400	2.018	0.915	3650	16200	3450	15400	1600
FT36	2.688	68.263	4.344	110.338	1.000	25.400	1.967	0.892	3650	16200	3450	15400	1600
FT37	2.750	69.850	4.469	113.513	1.000	25.400	2.090	0.948	3800	16800	3600	16100	1600
FT38	2.813	71.438	4.469	113.513	1.000	25.400	2.037	0.924	3800	16900	3600	16100	1600
FT39	2.875	73.025	4.594	116.688	1.000	25.400	2.156	0.978	3800	16900	3600	16100	1600
FT40	2.938	74.613	4.594	116.688	1.000	25.400	2.101	0.953	3750	16700	3600	16100	1600
FT41	3.000	76.200	4.719	119.863	1.000	25.400	2.000	0.907	3800	17000	3750	16800	1500
FT42	3.063	77.788	4.719	119.863	1.000	25.400	2.172	0.985	3800	17000	3750	16800	1500
FT43	3.250	82.550	4.969	126.213	1.000	25.400	2.000	0.907	3950	17600	4100	18100	1400
FT44	3.500	88.900	5.219	132.563	1.000	25.400	3.001	1.361	4000	17700	4250	18800	1400



Ball Thrust Bearings

FT0 SERIES

- Light cross section
- Flat race
- Single direction
- Speed limit shown is for oil lubrication



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.

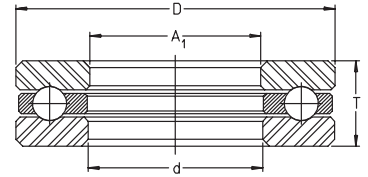
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT g	DYN. CAP. lbf	DYN. CAP. N	STAT. CAP. lbf	STAT. CAP. N	SPEED LIMIT rpm
FT01	0.188	4.763	0.438	11.112	0.188	4.762	0.005	2.39	103	455	42	187	25000
FT02	0.188	4.763	0.531	13.493	0.188	4.762	0.005	2.30	103	455	42	187	25000
FT03	0.188	4.763	0.625	15.875	0.250	6.350	0.007	3.26	207	920	85	380	19000
FT04	0.188	4.763	0.938	23.825	0.375	9.525	0.060	27.20	415	1850	201	900	14000
FT05	0.250	6.350	0.563	14.287	0.219	5.556	0.009	4.18	221	980	94	420	19000
FT06	0.250	6.350	0.813	20.650	0.375	9.530	0.050	22.70	390	1730	184	820	13000
FT07	0.250	6.350	0.844	21.438	0.375	9.525	0.042	19.24	390	1730	184	820	13000
FT08	0.313	7.938	0.625	15.875	0.250	6.350	0.012	5.66	213	950	94	420	17000
FT09	0.313	7.938	0.844	21.431	0.375	9.525	0.038	17.27	740	3300	300	1340	14000
FT010	0.375	9.525	0.688	17.480	0.281	7.144	0.017	7.50	232	1030	113	500	15000
FT011	0.375	9.525	1.031	26.190	0.500	12.700	0.080	36.11	740	3300	340	1510	11000
FT012	0.375	9.525	1.094	27.790	0.500	12.700	0.100	45.40	740	3300	340	1510	11000
FT013	0.438	11.113	0.813	20.650	0.313	7.950	0.025	11.25	360	1600	168	750	13000
FT014	0.438	11.113	1.094	27.788	0.500	12.700	0.086	38.99	730	3250	340	1510	10000
FT015	0.500	12.700	0.875	22.225	0.250	6.350	0.020	9.26	390	1740	201	900	11000
FT016	0.500	12.700	0.875	22.225	0.375	9.525	0.035	15.69	390	1740	201	900	11000

Ball Thrust Bearings

XW SERIES

- Light cross section
- Grooved race
- Single direction
- Separable axial contact
- Speed limit shown is for oil lubrication



- Part numbers shown in bold may **not** be readily available, please call to check availability.

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.

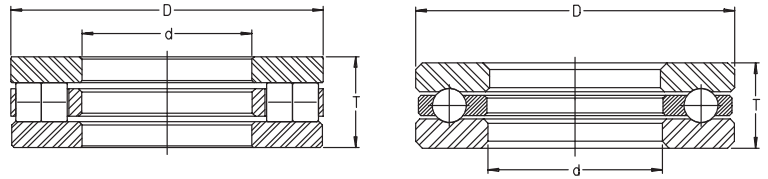
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT kg	DYN. CAP. lbf	DYN. CAP. kN	STAT. CAP. lbf	STAT. CAP. kN	SPEED LIMIT rpm
XW17	17.000	431.800	21.250	539.750	3.750	95.250	108.890	49.383	130000	580	590000	2610	410
XW17-1/2	17.500	444.500	21.750	552.450	3.875	98.430	118.999	53.968	142000	630	640000	2840	400
XW18	18.000	457.200	22.500	571.500	4.000	101.600	130.461	59.166	135000	600	640000	2840	390
XW18-1/2	18.500	469.900	23.000	584.200	4.125	104.770	143.001	64.853	135000	600	640000	2840	380
XW19	19.000	482.600	23.750	603.250	4.250	107.950	154.725	70.170	164000	730	750000	3330	370
XW19-1/2	19.500	495.300	24.250	615.950	4.375	111.130	167.999	76.190	157000	700	750000	3330	360
XW20	20.000	508.000	24.750	628.650	4.500	114.300	174.191	78.998	164000	730	800000	3540	350



Miscellaneous Ball & Roller Thrust Bearings

- Ball and roller thrust bearings
- Sorted by shaft dimension
- Special numbers containing "Y" are banded bearings

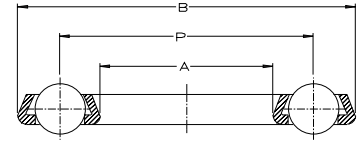


For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT kg	DYN. CAP. lbf	DYN. CAP. kN	STAT. CAP. lbf	STAT. CAP. kN	SPEED LIMIT rpm	CLEARANCE BORE inch	CLEARANCE BORE mm	SEAT RADIUS mm
80X03	7.998	203.149	11.750	298.450	2.503	63.576	32.242	14.622	85000	380	285000	1260	800	7.998	203.149	NA
85X04	8.530	216.662	10.500	266.700	1.000	25.400	2.463	1.117	20000	89	89000	395	800	NA	NA	NA
RT756	10.000	254.000	20.000	508.000	3.750	95.250	220.690	100.090	880000	3900	3750000	16800	600	NA	NA	NA
140Z01	13.484	342.500	18.250	463.550	4.260	108.200	111.286	50.470	175000	780	890000	3950	370	NA	NA	NA
195X02	19.500	495.300	23.000	584.200	2.000	50.800	51.718	23.455	90000	400	475000	2113	370	19.990	507.746	NA
195X03	19.500	495.300	23.000	584.200	2.250	57.150	61.819	28.036	105000	465	620000	2750	370	19.970	507.238	NA

Thrust Ball and Cage Assemblies

- Sorted by pitch diameter
- Bore shown is larger than mating shaft
- OD shown is smaller than mating housing
- Load rating depends on raceway
- Speed limit shown is for oil lubrication



*CAGE SHAPE WILL VARY WITH CAGE MATERIAL

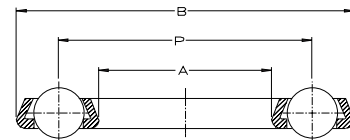
For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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PART NUMBER	PITCH DIA. inch	PITCH DIA. mm	BALL DIA. inch	BALL DIA. mm	CAGE MAT'L	BORE inch	BORE mm	OD inch	OD mm	# BALLS	WEIGHT lbs	WEIGHT kg
01N06	0.313	7.938	0.062	1.580	Nylon	0.192	4.870	0.432	10.980	10	0.002	0.001
02J05	0.411	10.439	0.094	2.381	Steel	0.278	7.060	0.550	13.970	8	0.004	0.002
02N05	0.411	10.439	0.094	2.381	Nylon	0.255	6.480	0.557	14.150	10	0.004	0.002
FT08MK	0.470	11.938	0.094	2.381	Brass	0.315	8.000	0.626	15.900	10	0.007	0.003
03J08	0.521	13.233	0.094	2.381	Steel	0.382	9.700	0.665	16.890	10	0.004	0.002
03N10	0.529	13.437	0.094	2.381	Nylon	0.380	9.650	0.675	17.150	12	0.002	0.001
F-390671	0.529	13.440	0.094	2.381	Nylon	0.380	9.650	0.675	17.150	12	1.764	0.800
FT010MK	0.531	13.494	0.094	2.381	Brass	0.385	9.780	0.676	17.170	12	0.007	0.003
03N11	0.531	13.495	0.125	3.175	Nylon	0.330	8.380	0.730	18.540	8	0.007	0.003
04J02	0.570	14.478	0.125	3.175	Steel	0.406	10.310	0.730	18.540	11	0.015	0.007
04N03	0.612	15.545	0.125	3.175	Nylon	0.441	11.200	0.807	20.500	10	0.011	0.005
05N22	0.625	15.875	0.094	2.381	Nylon	0.501	12.730	0.756	19.200	10	0.007	0.003
05N21	0.687	17.450	0.125	3.175	Nylon	0.505	12.820	0.870	22.100	12	0.013	0.006
04J09	0.689	17.501	0.156	3.969	Steel	0.473	12.010	0.905	22.990	10	0.015	0.007
05J01	0.713	18.110	0.156	3.969	Steel	0.515	13.080	0.910	23.110	10	0.007	0.003
06J01	0.807	20.498	0.156	3.969	Steel	0.654	16.610	1.150	29.210	12	0.011	0.005
05J02	0.813	20.638	0.187	4.762	Steel	0.574	14.580	1.045	26.540	10	0.013	0.006
06J10	0.889	22.581	0.156	3.969	Steel	0.687	17.450	1.092	27.740	12	0.009	0.004
06J06	0.973	24.714	0.250	6.350	Steel	0.667	16.940	1.280	32.510	8	0.031	0.014
09N04	1.062	26.975	0.094	2.381	Nylon	0.906	23.000	1.242	31.550	26	0.009	0.004
09N03	1.107	28.118	0.094	2.381	Nylon	0.930	23.620	1.286	32.660	28	0.011	0.005
10N07	1.124	28.550	0.063	1.588	Nylon	1.093	27.760	1.539	39.100	30	0.007	0.003
08JS10SS	1.125	28.575	0.187	4.762	Stainless	0.870	22.100	1.382	35.100	12	0.029	0.013
08J04	1.135	28.829	0.250	6.350	Steel	0.816	20.730	1.450	36.830	10	0.037	0.017
09J02	1.250	31.750	0.250	6.350	Steel	0.940	23.880	1.560	39.620	12	0.037	0.017
FC67244	1.307	33.200	0.094	2.381	Nylon	1.128	28.651	1.472	37.389	30	0.007	0.003
10J01	1.319	33.503	0.250	6.350	Steel	1.012	25.700	1.616	41.050	14	0.071	0.032
08N01	1.363	34.620	0.250	6.350	Nylon	0.885	22.480	1.842	46.790	14	0.099	0.045
09XS28LKV	1.375	34.925	0.250	6.350	Phenolic	0.995	25.273	1.760	44.704	10	0.031	0.014
10J03	1.378	35.001	0.281	7.144	Steel	1.039	26.390	1.712	43.490	13	0.057	0.026
10J04	1.380	35.052	0.250	6.350	Steel	1.060	26.920	1.685	42.800	12	0.049	0.022
10JS04SS	1.380	35.052	0.250	6.350	Stainless	1.050	26.670	1.695	43.053	12	0.044	0.020
11J03	1.500	38.100	0.250	6.350	Steel	1.189	30.200	1.814	46.080	12	0.082	0.037
12J01	1.508	38.303	0.187	4.762	Steel	1.267	32.180	1.735	44.070	19	0.024	0.011
13J04	1.624	41.250	0.187	4.762	Steel	1.386	35.200	1.860	47.240	18	0.029	0.013
13N01	1.639	41.631	0.125	3.175	Nylon	1.370	34.800	1.911	48.540	32	0.020	0.009
12J02	1.672	42.469	0.313	7.938	Steel	1.270	32.260	2.075	52.710	13	0.077	0.035
16J03	1.782	45.263	0.125	3.175	Steel	1.604	40.740	1.941	49.300	16	0.026	0.012
15J03	1.920	48.768	0.281	7.144	Steel	1.565	39.750	2.275	57.790	14	0.077	0.035
17J03	2.080	52.832	0.250	6.350	Steel	1.762	44.750	2.383	60.530	18	0.064	0.029
18N05	2.093	53.162	0.125	3.175	Nylon	1.819	46.200	2.417	61.400	40	0.022	0.010
FC68328-955	2.164	54.966	0.281	7.144	Nylon	1.815	46.100	2.505	63.620	20	0.086	0.039
18J01	2.165	54.991	0.281	7.144	Steel	1.812	46.020	2.517	63.930	20	0.097	0.044
18J04	2.327	59.106	0.406	10.319	Steel	1.830	46.480	2.817	71.550	16	0.203	0.092
20J04	2.468	62.687	0.313	7.938	Steel	2.066	52.480	2.855	72.520	16	0.112	0.051
21J01	2.578	65.481	0.313	7.938	Steel	2.186	55.520	2.965	75.310	21	0.218	0.099
22N01	2.688	68.263	0.281	7.144	Nylon	2.265	57.530	3.109	78.970	18	0.097	0.044



Thrust Ball and Cage Assemblies

- Sorted by pitch diameter
- Bore shown is larger than mating shaft
- OD shown is smaller than mating housing
- Load rating depends on raceway
- Speed limit shown is for oil lubrication



*CAGE SHAPE WILL VARY WITH CAGE MATERIAL

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.

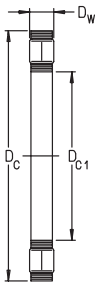
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PART NUMBER	PITCH DIA. inch	PITCH DIA. mm	BALL DIA. inch	BALL DIA. mm	CAGE MAT'L	BORE inch	BORE mm	OD inch	OD mm	# BALLS	WEIGHT lbs	WEIGHT kg
23J03	2.771	70.393	0.375	9.525	Steel	2.325	59.060	3.240	82.290	18	0.187	0.085
23J04	2.795	70.993	0.375	9.525	Steel	2.380	60.450	3.200	81.280	22	0.273	0.124
24J02	2.992	75.997	0.438	11.113	Steel	2.450	62.230	3.525	89.535	18	0.088	0.040
28J01	3.417	86.792	0.500	12.700	Steel	2.830	71.880	4.000	101.600	19	0.441	0.200
32J02	3.750	95.250	0.438	11.113	Steel	3.225	81.920	4.262	108.250	22	0.591	0.268
FT41MK	3.878	98.501	0.375	9.525	Brass	3.004	76.300	4.705	119.500	13	0.856	0.388
49J01	5.517	140.132	0.531	13.494	Steel	4.900	124.460	6.145	156.080	28	0.864	0.392
49J02	5.900	149.860	0.813	20.638	Steel	4.945	125.600	6.875	174.630	20	1.985	0.900



Thrust Roller And Cage Assemblies

- Metric and inch
- Needle and cylindrical roller types
- Sorted by bore
- Speed limit shown is for oil lubrication



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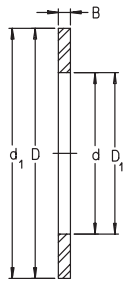
PART NUMBER	SHAFT	SHAFT	OD	OD	ROLLER	ROLLER	WEIGHT	WEIGHT	DYN.	DYN.	STAT.	STAT.	SPEED	EB	EB	EA	EA
	D_{c1}	D_{c1}	D_c	D_c	DIA.	DIA.	lbs	kg	CAP.	CAP.	CAP.	CAP.	LIMIT	INTERNAL	INTERNAL	EXTERNAL	EXTERNAL
	inch	mm	inch	mm	inch	mm			lbf	kN	lbf	kN	rpm	RACE DIA.	RACE DIA.	RACE DIA.	RACE DIA.
														inch	mm	inch	mm
K 812 72	14.173	360	19.685	500	1.772	45	38.036	17.25	610000	2700	2380000	10600	650	15.472	393	19.370	492
K 811 76	14.961	380	18.110	460	0.984	25	13.406	6.08	265000	1170	1210000	5400	700	15.472	393	17.835	453
K 812 76	14.961	380	20.472	520	1.772	45	39.029	17.7	620000	2750	2470000	11000	650	16.260	413	20.118	511
K 811 80	15.748	400	18.898	480	0.984	25	14.068	6.38	270000	1200	1280000	5700	650	16.260	413	18.622	473
K 812 80	15.748	400	21.260	540	1.772	45	40.793	18.5	630000	2800	2550000	11400	600	17.047	433	20.906	531
K 811 84	16.535	420	19.685	500	0.984	25	14.333	6.5	275000	1230	1330000	5900	650	17.047	433	19.409	493
K 812 84	16.535	420	22.835	580	2.047	52	57.330	26	790000	3500	3200000	14200	600	18.071	459	22.480	571
K 811 88	17.323	440	21.260	540	1.260	32	25.402	11.52	400000	1780	1840000	8200	600	18.071	459	20.984	533
K 812 88	17.323	440	23.622	600	2.047	52	59.976	27.2	810000	3600	3350000	14800	550	18.858	479	23.268	591
K 811 92	18.110	460	22.047	560	1.260	32	26.240	11.9	415000	1840	1960000	8700	550	18.858	479	21.772	553
K 812 92	18.110	460	24.409	620	2.047	52	62.181	28.2	820000	3650	3450000	15400	550	19.646	499	24.055	611
K 811 96	18.898	480	22.835	580	1.260	32	27.673	12.55	420000	1860	2000000	8900	550	19.685	500	22.559	573
K 812 96	18.898	480	25.591	650	2.205	56	74.529	33.8	920000	4100	3800000	17000	500	20.472	520	25.236	641
K 811/500	19.685	500	23.622	600	1.260	32	28.511	12.93	430000	1910	2090000	9300	500	20.433	519	23.307	592
K 812/500	19.685	500	26.378	670	2.205	56	77.175	35	930000	4150	3950000	17600	490	21.260	540	26.024	661
K 811/530	20.866	530	25.197	640	1.339	34	35.236	15.98	480000	2140	2360000	10500	490	21.811	554	24.882	632
K 812/530	20.866	530	27.953	710	2.362	60	93.161	42.25	1070000	4750	4550000	20300	460	22.520	572	27.598	701
AXK560X606X5	22.047	560	23.858	606	0.197	5	1.433	0.65	51000	225	560000	2500	410	19.764	502	21.417	544
K 811/560	22.047	560	26.378	670	1.339	34	37.022	16.79	490000	2190	2470000	11000	470	22.992	584	26.063	662
K 812/560	22.047	560	29.528	750	2.362	60	103.635	47	1090000	4850	4750000	21100	440	24.055	611	29.173	741
K 811/600	23.622	600	27.953	710	1.339	34	39.580	17.95	500000	2230	2600000	11500	440	24.567	624	27.638	702
K 812/600	23.622	600	31.496	800	2.520	64	125.134	56.75	1240000	5500	5400000	24000	410	25.630	651	31.063	789

Thrust Washers

FLAT RACE THRUST WASHERS

SORTED BY SHAFT DIMENSION

- Metric: AS, GS, LS, WS series
- Inch: TWA, TWB, TWC, TWD series
- Special Dimensions: F & FC
- Axial contact



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PART NUMBER	SHAFT d inch	SHAFT d mm	HOUSING D inch	HOUSING D mm	THICKNESS B inch	THICKNESS B mm	WEIGHT pounds	WEIGHT kilograms	BORE D ₁ inch	BORE D ₁ mm	OD d ₁ inch	OD d ₁ mm
AS 0414	0.158	4	0.551	14	0.039	1	0.002	0.001	0.158	4	0.551	14
FC67316	0.188	4.780	0.687	17.450	0.032	0.810	0.003	0.001	0.188	4.780	0.687	17.450
AS 0515	0.197	5	0.591	15	0.039	1	0.002	0.001	0.197	5	0.591	15
FC67318	0.223	5.670	0.812	20.620	0.095	2.410	0.013	0.006	0.223	5.670	0.812	20.620
FC69491.1	0.232	5.893	0.770	19.558	0.032	0.810	0.031	0.014	0.232	5.893	0.770	19.558
AS 0619	0.236	6	0.748	19	0.039	1	0.004	0.002	0.236	6	0.748	19
LS 0619	0.236	6	0.748	19	0.108	2.750	0.009	0.004	0.236	6	0.748	19
TWA411	0.250	6.350	0.688	17.463	0.032	0.810	0.003	0.001	0.250	6.350	0.688	17.463
TWB411	0.250	6.350	0.688	17.463	0.063	1.600	0.006	0.003	0.250	6.350	0.688	17.463
TWC411	0.250	6.350	0.688	17.463	0.092	2.337	0.008	0.004	0.250	6.350	0.688	17.463
TWD411	0.250	6.350	0.688	17.463	0.126	3.200	0.011	0.005	0.250	6.350	0.688	17.463
TWA512	0.313	7.938	0.750	19.050	0.032	0.810	0.003	0.001	0.313	7.938	0.750	19.050
TWB512	0.313	7.938	0.750	19.050	0.063	1.600	0.007	0.003	0.313	7.938	0.750	19.050
TWC512	0.313	7.938	0.750	19.050	0.092	2.337	0.010	0.004	0.313	7.938	0.750	19.050
TWD512	0.313	7.938	0.750	19.050	0.126	3.200	0.013	0.006	0.313	7.938	0.750	19.050
AS 0821	0.315	8	0.827	21	0.039	1	0.004	0.002	0.315	8	0.827	21
LS 0821	0.315	8	0.827	21	0.108	2.750	0.009	0.004	0.315	8	0.827	21
TWA613	0.375	9.525	0.813	20.638	0.032	0.810	0.003	0.001	0.375	9.525	0.813	20.638
TWB613	0.375	9.525	0.813	20.638	0.063	1.600	0.007	0.003	0.375	9.525	0.813	20.638
TWC613	0.375	9.525	0.813	20.638	0.092	2.337	0.011	0.005	0.375	9.525	0.813	20.638
TWD613	0.375	9.525	0.813	20.638	0.126	3.200	0.015	0.007	0.375	9.525	0.813	20.638
AS 1024	0.394	10	0.945	24	0.039	1	0.007	0.003	0.394	10	0.945	24
LS 1024	0.394	10	0.945	24	0.108	2.750	0.015	0.007	0.394	10	0.945	24
AS 1226	0.472	12	1.024	26	0.039	1	0.007	0.003	0.472	12	1.024	26
LS 1226	0.472	12	1.024	26	0.108	2.750	0.018	0.008	0.472	12	1.024	26
TWA812	0.500	12.700	0.750	19.050	0.032	0.810	0.002	0.001	0.500	12.700	0.750	19.050
TWB812	0.500	12.700	0.750	19.050	0.063	1.600	0.004	0.002	0.500	12.700	0.750	19.050
TWC812	0.500	12.700	0.750	19.050	0.092	2.337	0.006	0.003	0.500	12.700	0.750	19.050
TWD812	0.500	12.700	0.750	19.050	0.126	3.200	0.009	0.004	0.500	12.700	0.750	19.050
TWA815	0.500	12.700	0.938	23.813	0.032	0.810	0.004	0.002	0.500	12.700	0.938	23.813
TWB815	0.500	12.700	0.938	23.813	0.063	1.600	0.009	0.004	0.500	12.700	0.938	23.813
TWC815	0.500	12.700	0.938	23.813	0.092	2.337	0.013	0.006	0.500	12.700	0.938	23.813
TWD815	0.500	12.700	0.938	23.813	0.126	3.200	0.018	0.008	0.500	12.700	0.938	23.813
TWA916	0.563	14.290	1.000	25.400	0.032	0.810	0.004	0.002	0.563	14.290	1.000	25.400
TWB916	0.563	14.290	1.000	25.400	0.063	1.600	0.010	0.004	0.563	14.290	1.000	25.400
TWC916	0.563	14.290	1.000	25.400	0.092	2.337	0.014	0.006	0.563	14.290	1.000	25.400
TWD916	0.563	14.290	1.000	25.400	0.126	3.200	0.019	0.009	0.563	14.290	1.000	25.400
AS 1528	0.591	15	1.102	28	0.039	1	0.007	0.003	0.591	15	1.102	28
GS 81102	0.591	15	1.102	28	0.108	2.750	0.020	0.009	0.630	16	1.102	28
LS 1528	0.591	15	1.102	28	0.108	2.750	0.020	0.009	0.591	15	1.102	28
WS 81102	0.591	15	1.102	28	0.108	2.750	0.020	0.009	0.591	15	1.102	28
TWA1018	0.625	15.875	1.125	28.575	0.032	0.810	0.006	0.003	0.625	15.875	1.125	28.575
TWB1018	0.625	15.875	1.125	28.575	0.063	1.600	0.012	0.006	0.625	15.875	1.125	28.575
TWC1018	0.625	15.875	1.125	28.575	0.092	2.337	0.018	0.008	0.625	15.875	1.125	28.575
TWD1018	0.625	15.875	1.125	28.575	0.126	3.200	0.025	0.011	0.625	15.875	1.125	28.575
F-228531.2	0.632	16.050	1.378	35	0.039	1	0.013	0.006	0.632	16.050	1.378	35

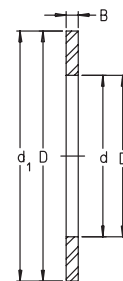


Thrust Washers

FLAT RACE THRUST WASHERS

SORTED BY SHAFT DIMENSION

- Metric: AS, GS, LS, WS series
- Inch: TWA, TWB, TWC, TWD series
- Special Dimensions: F & FC
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PART NUMBER	SHAFT	SHAFT	HOUSING	HOUSING	THICKNESS	THICKNESS	WEIGHT	WEIGHT	BORE	BORE	OD	OD
	d	d	D	D	B	B			D ₁	D ₁	d ₁	d ₁
	inch	mm	inch	mm	inch	mm	pounds	kilograms	inch	mm	inch	mm
F-390416.2	0.633	16.080	1.575	40	0.041	1.030	0.018	0.008	0.633	16.080	1.575	400
AS 1730	0.669	17	1.181	30	0.039	1	0.009	0.004	0.669	17	1.181	30
GS 81103	0.669	17	1.181	30	0.108	2.750	0.02	0.009	0.709	18	1.181	30
LS 1730	0.669	17	1.181	30	0.108	2.750	0.02	0.009	0.669	17	1.181	30
WS 81103	0.669	17	1.181	30	0.108	2.750	0.02	0.009	0.669	17	1.181	30
TWA1120	0.688	17.463	1.250	31.750	0.032	0.810	0.007	0.003	0.688	17.463	1.250	31.750
TWB1120	0.688	17.463	1.250	31.750	0.063	1.600	0.015	0.007	0.688	17.463	1.250	31.750
TWC1120	0.688	17.463	1.250	31.750	0.092	2.337	0.022	0.010	0.688	17.463	1.250	31.750
TWD1120	0.688	17.463	1.250	31.750	0.126	3.200	0.031	0.014	0.688	17.463	1.250	31.750
FC68506	0.713	18.100	1.575	40	0.138	3.500	0.055	0.025	0.713	18.100	1.575	40
TWA1220	0.750	19.050	1.250	31.750	0.032	0.810	0.006	0.003	0.750	19.050	1.250	31.750
TWB1220	0.750	19.050	1.250	31.750	0.063	1.600	0.014	0.006	0.750	19.050	1.250	31.750
TWC1220	0.750	19.050	1.250	31.750	0.092	2.337	0.020	0.009	0.750	19.050	1.250	31.750
TWD1220	0.750	19.050	1.250	31.750	0.126	3.200	0.028	0.013	0.750	19.050	1.250	31.750
AS 2035	0.787	20	1.378	35	0.039	1	0.011	0.005	0.787	20	1.378	35
GS 81104	0.787	20	1.378	35	0.108	2.750	0.029	0.013	0.827	21	1.378	35
LS 2035	0.787	20	1.378	35	0.108	2.750	0.029	0.013	0.787	20	1.378	35
WS 81104	0.787	20	1.378	35	0.108	2.750	0.029	0.013	0.787	20	1.378	35
F-200665	0.787	20	1.378	35	0.142	3.600	0.011	0.004	0.787	20	1.378	35
FC67171	0.787	20	1.378	35	0.079	2	0.022	0.009	0.787	20	1.378	35
F-200664	0.787	20	1.448	36.780	0.118	3	0.012	0.005	0.787	20	1.448	36.780
FC67078.1	0.800	20.310	1.575	40	0.036	0.910	0.014	0.006	0.800	20.310	1.575	40
FC69086	0.811	20.590	1.358	34.49	0.051	1.300	0.013	0.006	0.811	20.590	1.358	34.490
F-391042	0.845	21.460	1.437	36.500	0.036	0.910	0.009	0.004	0.845	21.460	1.437	36.500
TWA1423	0.875	22.225	1.438	36.513	0.032	0.810	0.008	0.004	0.875	22.225	1.438	36.513
TWB1423	0.875	22.225	1.438	36.513	0.063	1.600	0.018	0.008	0.875	22.225	1.438	36.513
TWC1423	0.875	22.225	1.438	36.513	0.092	2.337	0.027	0.012	0.875	22.225	1.438	36.513
TWD1423	0.875	22.225	1.438	36.513	0.126	3.200	0.036	0.017	0.875	22.225	1.438	36.513
TWA1427	0.875	22.225	1.688	42.863	0.032	0.810	0.014	0.006	0.875	22.225	1.688	42.863
TWB1427	0.875	22.225	1.688	42.863	0.063	1.600	0.029	0.013	0.875	22.225	1.688	42.863
TWC1427	0.875	22.225	1.688	42.863	0.092	2.337	0.043	0.019	0.875	22.225	1.688	42.863
TWD1427	0.875	22.225	1.688	42.863	0.126	3.200	0.058	0.026	0.875	22.225	1.688	42.863
FC66830	0.880	22.350	1.505	38.230	0.106	2.690	0.013	0.006	0.880	22.350	1.505	38.230
FC67317	0.910	23.110	1.750	44.450	0.126	3.200	0.063	0.028	0.910	23.110	1.750	44.450
FC69012	0.949	24.110	1.777	45.140	0.032	0.810	0.015	0.007	0.949	24.110	1.777	45.140
FC67613	0.976	24.800	1.654	42	0.157	4	0.061	0.028	0.976	24.800	1.654	42
AS 2542	0.984	25	1.654	42	0.039	1	0.015	0.007	0.984	25	1.654	42
GS 81105	0.984	25	1.654	42	0.118	3	0.042	0.019	1.024	26	1.654	42
LS 2542	0.984	25	1.654	42	0.118	3	0.042	0.019	0.984	25	1.654	42
WS 81105	0.984	25	1.654	42	0.118	3	0.042	0.019	0.984	25	1.654	42
TWA1625	1.000	25.400	1.563	39.688	0.032	0.810	0.009	0.004	1.000	25.400	1.563	39.688
TWB1625	1.000	25.400	1.563	39.688	0.063	1.600	0.020	0.009	1.000	25.400	1.563	39.688
TWC1625	1.000	25.400	1.563	39.688	0.092	2.337	0.029	0.013	1.000	25.400	1.563	39.688
TWD1625	1.000	25.400	1.563	39.688	0.126	3.200	0.040	0.018	1.000	25.400	1.563	39.688
FC69442	1.000	25.400	1.563	39.688	0.126	3.200	0.037	0.017	1.000	25.400	1.563	39.688
FC68256	1.000	25.400	1.752	44.500	0.032	0.810	0.014	0.006	1.000	25.400	1.752	44.500

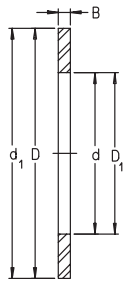


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PART NUMBER	SHAFT d inch	SHAFT d mm	HOUSING D inch	HOUSING D mm	THICKNESS B inch	THICKNESS B mm	WEIGHT pounds	WEIGHT kilograms	BORE D ₁ inch	BORE D ₁ mm	OD d ₁ inch	OD d ₁ mm
FC66961	1.002	25.450	1.552	39.420	0.032	0.810	0.009	0.004	1.002	25.450	1.552	39.420
FC67614	1.035	26.300	1.654	42	0.079	2	0.031	0.014	1.035	26.300	1.654	42
TWA1828	1.125	28.575	1.750	44.450	0.032	0.810	0.012	0.005	1.125	28.575	1.750	44.450
TWB1828	1.125	28.575	1.750	44.450	0.063	1.600	0.025	0.011	1.125	28.575	1.750	44.450
TWC1828	1.125	28.575	1.750	44.450	0.092	2.337	0.037	0.017	1.125	28.575	1.750	44.450
TWD1828	1.125	28.575	1.750	44.450	0.126	3.200	0.050	0.023	1.125	28.575	1.750	44.450
AS 3047	1.181	30	1.850	47	0.039	1	0.018	0.008	1.181	30	1.850	47
GS 81106	1.181	30	1.850	47	0.118	3	0.049	0.022	1.260	32	1.850	47
LS 3047	1.181	30	1.850	47	0.118	3	0.049	0.022	1.181	30	1.850	47
WS 81106	1.181	30	1.850	47	0.118	3	0.049	0.022	1.181	30	1.850	47
GS 812 06	1.181	30	2.047	52	0.630	16	0.099	0.045	1.260	32	2.047	52
WS 812 06	1.181	30	2.047	52	0.630	16	0.099	0.045	1.181	30	2.047	52
GS 893 06	1.181	30	2.362	60	0.246	6.250	0.209	0.095	1.260	32	2.362	60
WS 893 06	1.181	30	2.362	60	0.246	6.250	0.209	0.095	1.181	30	2.362	60
TWA2031	1.250	31.750	1.938	49.213	0.032	0.810	0.014	0.006	1.250	31.750	1.938	49.213
TWB2031	1.250	31.750	1.938	49.213	0.063	1.600	0.031	0.014	1.250	31.750	1.938	49.213
TWC2031	1.250	31.750	1.938	49.213	0.092	2.337	0.045	0.020	1.250	31.750	1.938	49.213
TWD2031	1.250	31.750	1.938	49.213	0.126	3.200	0.061	0.028	1.250	31.750	1.938	49.213
FC67342	1.287	32.690	1.740	44.200	0.095	2.410	0.02	0.009	1.287	32.69	1.740	44.200
TWA2233	1.375	34.925	2.063	52.388	0.032	0.810	0.015	0.007	1.375	34.925	2.063	52.388
TWB2233	1.375	34.925	2.063	52.388	0.063	1.600	0.033	0.015	1.375	34.925	2.063	52.388
TWC2233	1.375	34.925	2.063	52.388	0.092	2.337	0.048	0.022	1.375	34.925	2.063	52.388
TWD2233	1.375	34.925	2.063	52.388	0.126	3.200	0.066	0.030	1.375	34.925	2.063	52.388
AS 3552	1.378	35	2.047	52	0.039	1	0.020	0.009	1.378	35	2.047	52
GS 81107	1.378	35	2.047	52	0.138	3.5	0.064	0.029	1.457	37	2.047	52
LS 3552	1.378	35	2.047	52	0.138	3.5	0.064	0.029	1.378	35	2.047	52
WS 81107	1.378	35	2.047	52	0.138	3.5	0.064	0.029	1.378	35	2.047	52
FC68959	1.378	35	2.047	52	0.031	0.787	0.015	0.007	1.378	35	2.047	52
GS 812 07	1.378	35	2.441	62	0.709	18	0.168	0.076	1.457	37	2.441	62
WS 812 07	1.378	35	2.441	62	0.709	18	0.168	0.076	1.378	35	2.441	62
FC69635-501	1.378	35	2.441	62	0.098	2.5	0.082	0.037	1.457	37	2.441	62
FC69635-500	1.378	35	2.441	62	0.207	5.250	0.182	0.083	1.378	35	2.441	62
GS 893 07	1.378	35	2.677	68	0.276	7	0.295	0.134	1.457	37	2.677	68
WS 893 07	1.378	35	2.677	68	0.276	7	0.295	0.134	1.378	35	2.677	68
FC67362	1.380	35.056	1.730	43.950	0.041	1.050	0.009	0.004	1.380	35.056	1.730	43.950
FC69678.1	1.430	36.322	1.969	50	0.118	3	0.047	0.021	1.430	36.322	1.969	50
F205060	1.493	37.920	2.362	60	0.236	6	0.029	0.013	1.493	37.920	2.362	60
TWA2435	1.500	38.100	2.188	55.563	0.032	0.810	0.017	0.008	1.500	38.100	2.188	55.563
TWB2435	1.500	38.100	2.188	55.563	0.063	1.600	0.035	0.016	1.500	38.100	2.188	55.563
TWC2435	1.500	38.100	2.188	55.563	0.092	2.337	0.052	0.024	1.500	38.100	2.188	55.563
TWD2435	1.500	38.100	2.188	55.563	0.126	3.200	0.071	0.032	1.500	38.100	2.188	55.563
FC66560	1.500	38.100	2.305	58.547	0.095	2.410	0.064	0.029	1.500	38.100	2.305	58.547
AS 4060	1.575	40	2.362	60	0.039	1	0.026	0.012	1.575	40	2.362	60
GS 81108	1.575	40	2.362	60	0.138	3.5	0.088	0.040	1.654	42	2.362	60
LS 4060	1.575	40	2.362	60	0.138	3.5	0.088	0.040	1.575	40	2.362	60
WS 81108	1.575	40	2.362	60	0.138	3.5	0.088	0.040	1.575	40	2.362	60

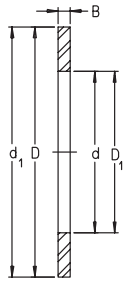


Thrust Washers

FLAT RACE THRUST WASHERS

SORTED BY SHAFT DIMENSION

- Metric: AS, GS, LS, WS series
- Inch: TWA, TWB, TWC, TWD series
- Special Dimensions: F & FC
- Axial contact



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PART NUMBER	SHAFT d inch	SHAFT d mm	HOUSING D inch	HOUSING D mm	THICKNESS B inch	THICKNESS B mm	WEIGHT pounds	WEIGHT kilograms	BORE D ₁ inch	BORE D ₁ mm	OD d ₁ inch	OD d ₁ mm
GS 812 08	1.575	40	2.677	68	0.748	19	0.185	0.084	1.654	42	2.677	68
WS 812 08	1.575	40	2.677	68	0.748	19	0.185	0.084	1.575	40	2.677	68
GS 893 08	1.575	40	3.071	78	0.295	7.5	0.426	0.193	1.654	42	3.071	78
WS 893 08	1.575	40	3.071	78	0.295	7.500	0.426	0.193	1.575	40	3.071	78
GS 874 08	1.575	40	3.543	90	0.325	8.250	0.684	0.310	1.654	42	3.543	90
WS 874 08	1.575	40	3.543	90	0.325	8.250	0.684	0.310	1.575	40	3.543	90
F-210510.1	1.577	40.050	2.181	55.400	0.114	2.900	0.025	0.011	1.577	40.050	2.181	55.400
F205061	1.691	42.950	2.480	63	0.041	1.050	0.028	0.013	1.691	42.950	2.480	63
FC67381.1	1.750	44.450	2.375	60.325	0.095	2.410	0.052	0.024	1.750	44.450	2.375	60.325
TWA2840	1.750	44.450	2.500	63.500	0.032	0.810	0.021	0.009	1.750	44.450	2.500	63.500
TWA2870	1.750	44.450	2.500	63.500	0.032	0.810	0.021	0.009	1.750	44.450	2.500	63.500
TWB2840	1.750	44.450	2.500	63.500	0.063	1.600	0.045	0.020	1.750	44.450	2.500	63.500
TWB2870	1.750	44.450	2.500	63.500	0.063	1.600	0.045	0.020	1.750	44.450	2.500	63.500
TWC2840	1.750	44.450	2.500	63.500	0.092	2.337	0.065	0.030	1.750	44.450	2.500	63.500
TWC2870	1.750	44.450	2.500	63.500	0.092	2.337	0.065	0.030	1.750	44.450	2.500	63.500
TWD2840	1.750	44.450	2.500	63.500	0.126	3.200	0.089	0.040	1.750	44.450	2.500	63.500
TWD2870	1.750	44.450	2.500	63.500	0.126	3.200	0.089	0.040	1.750	44.450	2.500	63.500
F-390079	1.750	44.450	2.500	63.500	0.032	0.810	0.021	0.009	1.750	44.450	2.500	63.500
FC66671	1.752	44.500	2.415	61.340	0.095	2.410	0.058	0.026	1.752	44.500	2.415	61.340
FC68999	1.756	44.610	2.999	76.170	0.040	1.010	0.051	0.023	1.756	44.610	2.999	76.170
AS 4565	1.772	45	2.559	65	0.039	1	0.029	0.013	1.772	45	2.559	65
GS 81109	1.772	45	2.559	65	0.158	4	0.110	0.050	1.850	47	2.559	65
LS 4565	1.772	45	2.559	65	0.158	4	0.110	0.050	1.772	45	2.559	65
WS 81109	1.772	45	2.559	65	0.158	4	0.110	0.050	1.772	45	2.559	65
GS 812 09	1.772	45	2.874	73	0.787	20	0.223	0.101	1.850	47	2.874	73
WS 812 09	1.772	45	2.874	73	0.787	20	0.223	0.101	1.772	45	2.874	73
GS 893 09	1.772	45	3.347	85	0.325	8.250	0.545	0.247	1.850	47	3.347	85
WS 893 09	1.772	45	3.347	85	0.325	8.250	0.545	0.247	1.772	45	3.347	85
GS 874 09	1.772	45	3.937	100	0.354	9	0.970	0.440	1.850	47	3.937	100
WS 874 09	1.772	45	3.937	100	0.354	9	0.970	0.440	1.772	45	3.937	100
AS 5070	1.969	50	2.756	70	0.039	1	0.031	0.014	1.969	50	2.756	70
GS 81110	1.969	50	2.756	70	0.158	4	0.121	0.055	2.047	52	2.756	70
LS 5070	1.969	50	2.756	70	0.158	4	0.121	0.055	1.969	50	2.756	70
WS 81110	1.969	50	2.756	70	0.158	4	0.121	0.055	1.969	50	2.756	70
GS 812 10	1.969	50	3.071	78	0.866	22	0.284	0.129	2.047	52	3.071	78
WS 812 10	1.969	50	3.071	78	0.866	22	0.284	0.129	1.969	50	3.071	78
GS 893 10	1.969	50	3.740	95	0.374	9.5	0.785	0.356	2.047	52	3.740	95
WS 893 10	1.969	50	3.740	95	0.374	9.5	0.785	0.356	1.969	50	3.740	95
GS 874 10	1.969	50	4.331	110	0.374	9.5	1.169	0.530	2.047	52	4.331	110
WS 874 10	1.969	50	4.331	110	0.374	9.5	1.169	0.530	1.969	50	4.331	110
TWA3244	2.000	50.800	2.750	69.850	0.032	0.810	0.023	0.011	2.000	50.800	2.750	69.850
TWB3244	2.000	50.800	2.750	69.850	0.063	1.600	0.050	0.023	2.000	50.800	2.750	69.850
TWC3244	2.000	50.800	2.750	69.850	0.092	2.337	0.073	0.033	2.000	50.800	2.750	69.850
TWD3244	2.000	50.800	2.750	69.850	0.126	3.200	0.100	0.045	2.000	50.800	2.750	69.850
FC68429	2.000	50.800	2.970	75.438	0.032	0.813	0.033	0.015	2.000	50.800	2.970	75.438
TWA3446	2.125	53.975	2.875	73.020	0.032	0.810	0.025	0.011	2.125	53.975	2.875	73.020

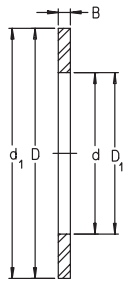


Thrust Washers

FLAT RACE THRUST WASHERS

SORTED BY SHAFT DIMENSION

- Metric: AS, GS, LS, WS series
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- Special Dimensions: F & FC
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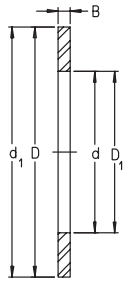
PART NUMBER	SHAFT d inch	SHAFT d mm	HOUSING D inch	HOUSING D mm	THICKNESS B inch	THICKNESS B mm	WEIGHT pounds	WEIGHT kilograms	BORE D ₁ inch	BORE D ₁ mm	OD d ₁ inch	OD d ₁ mm
TWB3446	2.125	53.975	2.875	73.020	0.063	1.600	0.052	0.024	2.125	53.975	2.875	73.020
TWC3446	2.125	53.975	2.875	73.020	0.092	2.337	0.077	0.035	2.125	53.975	2.875	73.020
TWD3446	2.125	53.975	2.875	73.020	0.126	3.200	0.105	0.048	2.125	53.975	2.875	73.020
AS 5578	2.165	55	3.071	78	0.039	1	0.040	0.018	2.165	55	3.071	78
GS 81111	2.165	55	3.071	78	0.197	5	0.194	0.088	2.244	57	3.071	78
LS 5578	2.165	55	3.071	78	0.197	5	0.194	0.088	2.165	55	3.071	78
WS 81111	2.165	55	3.071	78	0.197	5	0.194	0.088	2.165	55	3.071	78
GS 812 11	2.165	55	3.543	90	0.984	25	0.443	0.201	2.244	57	3.543	90
WS 812 11	2.165	55	3.543	90	0.984	25	0.443	0.201	2.165	55	3.543	90
GS 893 11	2.165	55	4.134	105	0.413	10.5	1.069	0.485	2.244	57	4.134	105
WS 893 11	2.165	55	4.134	105	0.413	10.5	1.069	0.485	2.165	55	4.134	105
GS 874 11	2.165	55	4.724	120	0.413	10.5	1.539	0.698	2.244	57	4.724	120
WS 874 11	2.165	55	4.724	120	0.413	10.5	1.539	0.698	2.165	55	4.724	120
FC66137	2.183	55.450	3.005	76.330	0.134	3.400	0.050	0.022	2.183	55.450	3.005	76.330
FC66718	2.183	55.450	3.005	76.330	0.134	3.400	0.009	0.004	2.183	55.450	3.005	76.330
FC68883	2.244	57	3.209	81.500	0.157	4	0.181	0.082	2.244	57	3.209	81.5
TWA3648	2.250	57.150	3.000	76.200	0.032	0.810	0.026	0.012	2.250	57.150	3.000	76.200
TWB3648	2.250	57.150	3.000	76.200	0.063	1.600	0.055	0.025	2.250	57.150	3.000	76.200
TWC3648	2.250	57.150	3.000	76.200	0.092	2.337	0.081	0.037	2.250	57.150	3.000	76.200
TWD3648	2.250	57.150	3.000	76.200	0.126	3.200	0.110	0.050	2.250	57.150	3.000	76.200
FC66138	2.252	57.200	2.990	75.950	0.032	0.810	0.038	0.017	2.252	57.200	2.990	75.950
FC66505	2.252	57.200	2.990	75.950	0.032	0.810	0.004	0.002	2.252	57.200	2.990	75.950
AS 6085	2.362	60	3.347	85	0.039	1	0.049	0.022	2.362	60	3.347	85
GS 81112	2.362	60	3.347	85	0.187	4.750	0.214	0.097	2.441	62	3.347	85
LS 6085	2.362	60	3.347	85	0.187	4.750	0.214	0.097	2.362	60	3.347	85
WS 81112	2.362	60	3.347	85	0.187	4.750	0.214	0.097	2.362	60	3.347	85
GS 812 12	2.362	60	3.740	95	1.024	26	0.514	0.233	2.441	62	3.740	95
WS 812 12	2.362	60	3.740	95	1.024	26	0.514	0.233	2.362	60	3.740	95
GS 893 12	2.362	60	4.331	110	0.413	10.5	1.140	0.517	2.441	62	4.331	110
WS 893 12	2.362	60	4.331	110	0.413	10.5	1.140	0.517	2.362	60	4.331	110
GS 874 12	2.362	60	5.118	130	0.453	11.5	2.073	0.940	2.441	62	5.118	130
WS 874 12	2.362	60	5.118	130	0.453	11.5	2.073	0.940	2.362	60	5.118	130
GS 894 12	2.362	60	5.118	130	0.551	14	2.459	1.115	2.441	62	5.118	130
WS 894 12	2.362	60	5.118	130	0.551	14	2.459	1.115	2.362	60	5.118	130
FC66668	2.436	61.880	3.268	83	0.032	0.810	0.187	0.085	2.436	61.880	3.268	83
FC67976	2.480	63	3.375	85.720	0.268	6.800	0.067	0.030	2.480	63	3.375	85.720
TWA4052	2.500	63.500	3.250	82.550	0.032	0.810	0.028	0.013	2.500	63.500	3.250	82.550
TWB4052	2.500	63.500	3.250	82.550	0.063	1.600	0.060	0.027	2.500	63.500	3.250	82.550
TWC4052	2.500	63.500	3.250	82.550	0.092	2.337	0.088	0.040	2.500	63.500	3.250	82.550
TWD4052	2.500	63.500	3.250	82.550	0.126	3.200	0.121	0.055	2.500	63.500	3.250	82.550
FC66667	2.502	63.550	3.268	83	0.039	1	0.038	0.017	2.502	63.550	3.268	83
FC66140	2.510	63.760	3.620	91.950	0.032	0.810	0.047	0.021	2.510	63.760	3.620	91.950
AS 6590	2.559	65	3.543	90	0.039	1	0.053	0.024	2.559	65	3.543	90
GS 81113	2.559	65	3.543	90	0.207	5.250	0.254	0.115	2.638	67	3.543	90
LS 6590	2.559	65	3.543	90	0.207	5.250	0.254	0.115	2.559	65	3.543	90
WS 81113	2.559	65	3.543	90	0.207	5.250	0.254	0.115	2.559	65	3.543	90



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PART NUMBER	SHAFT d inch	SHAFT d mm	HOUSING D inch	HOUSING D mm	THICKNESS B inch	THICKNESS B mm	WEIGHT pounds	WEIGHT kilograms	BORE D ₁ inch	BORE D ₁ mm	OD d ₁ inch	OD d ₁ mm
GS 812 13	2.559	65	3.937	100	1.063	27	0.591	0.268	2.638	67	3.937	100
WS 812 13	2.559	65	3.937	100	1.063	27	0.591	0.268	2.559	65	3.937	100
GS 893 13	2.559	65	4.528	115	0.413	10.5	1.180	0.535	2.638	67	4.528	115
WS 893 13	2.559	65	4.528	115	0.413	10.5	1.180	0.535	2.559	65	4.528	115
GS 874 13	2.559	65	5.512	140	0.472	12	2.514	1.140	2.677	68	5.512	140
WS 874 13	2.559	65	5.512	140	0.472	12	2.514	1.14	2.559	65	5.512	140
GS 894 13	2.559	65	5.512	140	0.591	15	3.087	1.4	2.677	68	5.512	140
WS 894 13	2.559	65	5.512	140	0.591	15	3.087	1.4	2.559	65	5.512	140
FC67083	2.677	68	3.937	100	0.039	1	0.064	0.029	2.677	68	3.937	100
FC67084	2.677	68	3.937	100	0.032	0.810	0.06	0.027	2.677	68	3.937	100
FC66720	2.683	68.150	3.626	92.100	0.138	3.5	0.023	0.010	2.683	68.150	3.626	92.100
FC66139	2.683	68.150	3.626	92.100	0.138	3.5	0.046	0.021	2.683	68.150	3.626	92.100
TWA4458	2.750	69.850	3.625	92.075	0.032	0.810	0.037	0.017	2.750	69.850	3.625	92.075
TWB4458	2.750	69.850	3.625	92.075	0.063	1.600	0.078	0.035	2.750	69.850	3.625	92.075
TWC4458	2.750	69.850	3.625	92.075	0.092	2.337	0.114	0.052	2.750	69.850	3.625	92.075
TWD4458	2.750	69.850	3.625	92.075	0.126	3.200	0.156	0.071	2.750	69.850	3.625	92.075
FC66507	2.752	69.900	3.620	91.950	0.032	0.810	0.007	0.003	2.752	69.900	3.620	91.950
AS 7095	2.756	70	3.740	95	0.039	1	0.055	0.025	2.756	70	3.740	95
GS 81114	2.756	70	3.740	95	0.207	5.250	0.271	0.123	2.835	72	3.740	95
LS 7095	2.756	70	3.740	95	0.207	5.250	0.271	0.123	2.756	70	3.740	95
WS 81114	2.756	70	3.740	95	0.207	5.250	0.271	0.123	2.756	70	3.740	95
GS 812 14	2.756	70	4.134	105	1.063	27	0.613	0.278	2.835	72	4.134	105
WS 812 14	2.756	70	4.134	105	1.063	27	0.613	0.278	2.756	70	4.134	105
GS 893 14	2.756	70	4.921	125	0.472	12	1.764	0.8	2.835	72	4.921	125
WS 893 14	2.756	70	4.921	125	0.472	12	1.764	0.8	2.756	70	4.921	125
GS 874 14	2.756	70	5.906	150	0.492	12.5	2.999	1.36	2.874	73	5.906	150
WS 874 14	2.756	70	5.906	150	0.492	12.5	2.999	1.36	2.756	70	5.906	150
GS 894 14	2.756	70	5.906	150	0.630	16	3.815	1.73	2.874	73	5.906	150
WS 894 14	2.756	70	5.906	150	0.630	16	3.815	1.73	2.756	70	5.906	150
AS 75100	2.953	75	3.937	100	0.039	1	0.06	0.027	2.953	75	3.937	100
GS 81115	2.953	75	3.937	100	0.226	5.750	0.313	0.142	3.032	77	3.937	100
LS 75100	2.953	75	3.937	100	0.226	5.750	0.313	0.142	2.953	75	3.937	100
WS 81115	2.953	75	3.937	100	0.226	5.750	0.313	0.142	2.953	75	3.937	100
GS 812 15	2.953	75	4.331	110	1.063	27	0.646	0.293	3.032	77	4.331	110
WS 812 15	2.953	75	4.331	110	1.063	27	0.646	0.293	2.953	75	4.331	110
GS 893 15	2.953	75	5.315	135	0.492	12.5	2.139	0.97	3.032	77	5.315	135
WS 893 15	2.953	75	5.315	135	0.492	12.5	2.139	0.97	2.953	75	5.315	135
GS 874 15	2.953	75	6.299	160	0.512	13	3.55	1.61	3.071	78	6.299	160
WS 874 15	2.953	75	6.299	160	0.512	13	3.55	1.61	2.953	75	6.299	160
GS 894 15	2.953	75	6.299	160	0.669	17	4.608	2.09	3.071	78	6.299	160
WS 894 15	2.953	75	6.299	160	0.669	17	4.608	2.09	2.953	75	6.299	160
TWA4860	3.000	76.200	3.750	95.250	0.032	0.810	0.033	0.015	3.000	76.200	3.750	95.250
TWB4860	3.000	76.200	3.750	95.250	0.063	1.600	0.071	0.032	3.000	76.200	3.750	95.250
TWC4860	3.000	76.200	3.750	95.250	0.092	2.337	0.104	0.047	3.000	76.200	3.750	95.250
TWD4860	3.000	76.200	3.750	95.250	0.126	3.200	0.142	0.064	3.000	76.200	3.750	95.250
F-390569	3.004	76.300	3.749	95.230	0.039	1	0.044	0.019	3.004	76.300	3.749	95.230

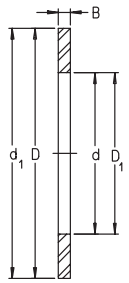


Thrust Washers

FLAT RACE THRUST WASHERS

SORTED BY SHAFT DIMENSION

- Metric: AS, GS, LS, WS series
- Inch: TWA, TWB, TWC, TWD series
- Special Dimensions: F & FC
- Axial contact



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PART NUMBER	SHAFT d inch	SHAFT d mm	HOUSING D inch	HOUSING D mm	THICKNESS B inch	THICKNESS B mm	WEIGHT pounds	WEIGHT kilograms	BORE D ₁ inch	BORE D ₁ mm	OD d ₁ inch	OD d ₁ mm
FC68400	3.049	77.450	3.756	95.400	0.077	1.950	0.08	0.036	3.049	77.450	3.756	95.400
FC68399A	3.075	78.100	3.833	97.350	0.069	1.740	0.078	0.035	3.075	78.100	3.833	97.350
FC68399C	3.075	78.100	3.833	97.350	0.071	1.800	0.081	0.036	3.075	78.100	3.833	97.350
FC68399D	3.075	78.100	3.833	97.350	0.072	1.830	0.082	0.037	3.075	78.100	3.833	97.350
FC68399E	3.075	78.100	3.833	97.350	0.073	1.860	0.083	0.037	3.075	78.100	3.833	97.350
FC68399F	3.075	78.100	3.833	97.350	0.074	1.890	0.085	0.038	3.075	78.100	3.833	97.350
FC68399G	3.075	78.100	3.833	97.350	0.076	1.920	0.086	0.039	3.075	78.100	3.833	97.350
FC68399H	3.075	78.100	3.833	97.350	0.077	1.950	0.087	0.039	3.075	78.100	3.833	97.350
FC69240.1	3.075	78.100	3.833	97.350	0.077	1.960	0.084	0.038	3.075	78.100	3.833	97.350
AS 80105	3.150	80	4.134	105	0.039	1	0.062	0.028	3.150	80	4.134	105
GS 81116	3.150	80	4.134	105	0.226	5.750	0.333	0.151	3.228	82	4.134	105
LS 80105	3.150	80	4.134	105	0.226	5.750	0.333	0.151	3.150	80	4.134	105
WS 81116	3.150	80	4.134	105	0.226	5.750	0.333	0.151	3.150	80	4.134	105
GS 812 16	3.150	80	4.528	115	1.102	28	0.734	0.333	3.228	82	4.528	115
WS 812 16	3.150	80	4.528	115	1.102	28	0.734	0.333	3.150	80	4.528	115
GS 893 16	3.150	80	5.512	140	0.492	12.5	2.249	1.020	3.228	82	5.512	140
WS 893 16	3.150	80	5.512	140	0.492	12.5	2.249	1.020	3.150	80	5.512	140
GS 874 16	3.150	80	6.693	170	0.571	14.5	4.900	2.222	3.268	83	6.693	170
WS 874 16	3.150	80	6.693	170	0.571	14.5	4.900	2.222	3.150	80	6.693	170
GS 894 16	3.150	80	6.693	170	0.709	18	5.513	2.500	3.268	83	6.693	170
WS 894 16	3.150	80	6.693	170	0.709	18	5.513	2.500	3.150	80	6.693	170
FC69629	3.150	80.010	4.249	107.927	0.096	2.440	0.17	0.077	3.150	80.010	4.249	107.927
TWA5266	3.250	82.550	4.125	104.775	0.032	0.810	0.043	0.019	3.250	82.550	4.125	104.775
TWB5266	3.250	82.550	4.125	104.775	0.063	1.600	0.090	0.041	3.250	82.550	4.125	104.775
TWC5266	3.250	82.550	4.125	104.775	0.092	2.337	0.132	0.060	3.250	82.550	4.125	104.775
TWD5266	3.250	82.550	4.125	104.775	0.126	3.200	0.181	0.082	3.250	82.550	4.125	104.775
AS 85110	3.347	85	4.331	110	0.039	1	0.064	0.029	3.347	85	4.331	110
GS 81117	3.347	85	4.331	110	0.226	5.750	0.351	0.159	3.425	87	4.331	110
LS 85110	3.347	85	4.331	110	0.226	5.750	0.351	0.159	3.347	85	4.331	110
WS 81117	3.347	85	4.331	110	0.226	5.750	0.351	0.159	3.347	85	4.331	110
GS 812 17	3.347	85	4.921	125	1.221	31	1.080	0.490	3.465	88	4.921	125
WS 812 17	3.347	85	4.921	125	1.221	31	1.080	0.490	3.347	85	4.921	125
GS 893 17	3.347	85	5.906	150	0.532	13.5	2.712	1.230	3.465	88	5.906	150
WS 893 17	3.347	85	5.906	150	0.532	13.5	2.712	1.230	3.347	85	5.906	150
GS 874 17	3.347	85	7.087	180	0.571	14.5	4.961	2.250	3.465	88	7.087	180
WS 874 17	3.347	85	7.087	180	0.571	14.5	4.961	2.250	3.347	85	7.087	180
GS 894 17	3.347	85	7.087	180	0.768	19.5	6.549	2.970	3.465	88	7.087	180
WS 894 17	3.347	85	7.087	180	0.768	19.5	6.549	2.970	3.347	85	7.087	180
AS 90120	3.543	90	4.724	120	0.039	1	0.086	0.039	3.543	90	4.724	120
GS 81118	3.543	90	4.724	120	0.256	6.5	0.516	0.234	3.622	92	4.724	120
LS 90120	3.543	90	4.724	120	0.256	6.5	0.516	0.234	3.543	90	4.724	120
WS 81118	3.543	90	4.724	120	0.256	6.5	0.516	0.234	3.543	90	4.724	120
GS 812 18	3.543	90	5.315	135	1.378	35	1.354	0.614	3.661	93	5.315	135
WS 812 18	3.543	90	5.315	135	1.378	35	1.354	0.614	3.543	90	5.315	135
GS 893 18	3.543	90	6.102	155	0.532	13.5	2.933	1.330	3.661	93	6.102	155
WS 893 18	3.543	90	6.102	155	0.532	13.5	2.933	1.330	3.543	90	6.102	155

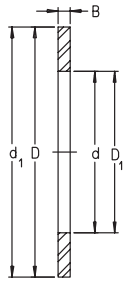


Thrust Washers

FLAT RACE THRUST WASHERS

SORTED BY SHAFT DIMENSION

- Metric: AS, GS, LS, WS series
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- Special Dimensions: F & FC
- Axial contact



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PART NUMBER	SHAFT d	SHAFT d	HOUSING D	HOUSING D	THICKNESS B	THICKNESS B	WEIGHT	WEIGHT	BORE D ₁	BORE D ₁	OD d ₁	OD d ₁
	inch	mm	inch	mm	inch	mm	pounds	kilograms	inch	mm	inch	mm
GS 874 18	3.543	90	7.480	190	0.630	16	6.086	2.760	3.661	93	7.480	190
WS 874 18	3.543	90	7.480	190	0.630	16	6.086	2.760	3.543	90	7.480	190
GS 894 18	3.543	90	7.480	190	0.787	20	7.607	3.450	3.661	93	7.480	190
WS 894 18	3.543	90	7.480	190	0.787	20	7.607	3.450	3.543	90	7.480	190
TWA6074	3.750	95.250	4.625	117.475	0.032	0.810	0.048	0.022	3.750	95.250	4.625	117.475
TWB6074	3.750	95.250	4.625	117.475	0.063	1.600	0.103	0.047	3.750	95.250	4.625	117.475
TWC6074	3.750	95.250	4.625	117.475	0.092	2.337	0.150	0.068	3.750	95.250	4.625	117.475
TWD6074	3.750	95.250	4.625	117.475	0.126	3.200	0.205	0.093	3.750	95.250	4.625	117.475
FC67298	3.898	99	5.984	152	0.062	1.570	0.283	0.128	3.898	99	5.984	152
AS 100135	3.937	100	5.315	135	0.039	1	0.110	0.050	3.937	100	5.315	135
GS 81120	3.937	100	5.315	135	0.276	7	0.772	0.350	4.016	102	5.315	135
LS 100135	3.937	100	5.315	135	0.276	7	0.772	0.350	3.937	100	5.315	135
WS 81120	3.937	100	5.315	135	0.276	7	0.772	0.350	3.937	100	5.315	135
GS 812 20	3.937	100	5.906	150	1.496	38	1.764	0.800	4.055	103	5.906	150
WS 812 20	3.937	100	5.906	150	1.496	38	1.764	0.800	3.937	100	5.906	150
GS 893 20	3.937	100	6.693	170	0.571	14.5	3.726	1.690	4.055	103	6.693	170
WS 893 20	3.937	100	6.693	170	0.571	14.5	3.726	1.690	3.937	100	6.693	170
GS 874 20	3.937	100	8.268	210	0.689	17.5	8.114	3.680	4.055	103	8.268	210
WS 874 20	3.937	100	8.268	210	0.689	17.5	8.114	3.680	3.937	100	8.268	210
GS 894 20	3.937	100	8.268	210	0.886	22.5	10.474	4.750	4.055	103	8.268	210
WS 894 20	3.937	100	8.268	210	0.886	22.5	10.474	4.750	3.937	100	8.268	210
TWA6681	4.125	104.775	5.063	128.588	0.032	0.810	0.056	0.025	4.125	104.775	5.063	128.588
TWB6681	4.125	104.775	5.063	128.588	0.063	1.600	0.121	0.055	4.125	104.775	5.063	128.588
TWC6681	4.125	104.775	5.063	128.588	0.092	2.337	0.176	0.080	4.125	104.775	5.063	128.588
TWD6681	4.125	104.775	5.063	128.588	0.126	3.200	0.241	0.109	4.125	104.775	5.063	128.588
AS 110145	4.331	110	5.709	145	0.039	1	0.121	0.055	4.331	110	5.709	145
GS 81122	4.331	110	5.709	145	0.276	7	0.849	0.385	4.409	112	5.709	145
LS 110145	4.331	110	5.709	145	0.276	7	0.849	0.385	4.331	110	5.709	145
WS 81122	4.331	110	5.709	145	0.276	7	0.849	0.385	4.331	110	5.709	145
GS 812 22	4.331	110	6.299	160	1.496	38	1.940	0.880	4.449	113	6.299	160
WS 812 22	4.331	110	6.299	160	1.496	38	1.940	0.880	4.331	110	6.299	160
GS 893 22	4.331	110	7.480	190	0.650	16.5	5.380	2.440	4.449	113	7.480	190
WS 893 22	4.331	110	7.480	190	0.650	16.5	5.380	2.440	4.331	110	7.480	190
GS 874 22	4.331	110	9.055	230	0.728	18.5	10.275	4.660	4.449	113	9.055	230
WS 874 22	4.331	110	9.055	230	0.728	18.5	10.275	4.660	4.331	110	9.055	230
GS 894 22	4.331	110	9.055	230	0.965	24.5	13.561	6.150	4.449	113	9.055	230
WS 894 22	4.331	110	9.055	230	0.965	24.5	13.561	6.150	4.331	110	9.055	230
AS 120155	4.724	120	6.102	155	0.039	1	0.130	0.059	4.724	120	6.102	155
GS 81124	4.724	120	6.102	155	0.276	7	0.915	0.415	4.803	122	6.102	155
LS 120155	4.724	120	6.102	155	0.276	7	0.915	0.415	4.724	120	6.102	155
WS 81124	4.724	120	6.102	155	0.276	7	0.915	0.415	4.724	120	6.102	155
GS 812 24	4.724	120	6.693	170	1.535	39	2.161	0.980	4.843	123	6.693	170
WS 812 24	4.724	120	6.693	170	1.535	39	2.161	0.980	4.724	120	6.693	170
GS 893 24	4.724	120	8.268	210	0.728	18.5	7.497	3.400	4.843	123	8.268	210
WS 893 24	4.724	120	8.268	210	0.728	18.5	7.497	3.400	4.724	120	8.268	210
GS 874 24	4.724	120	9.843	250	0.787	20	13.098	5.940	4.843	123	9.843	250

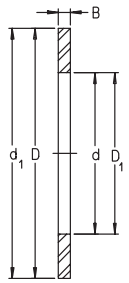


Thrust Washers

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PART NUMBER	SHAFT d inch	SHAFT d mm	HOUSING D inch	HOUSING D mm	THICKNESS B inch	THICKNESS B mm	WEIGHT pounds	WEIGHT kilograms	BORE D ₁ inch	BORE D ₁ mm	OD d ₁ inch	OD d ₁ mm
WS 874 24	4.724	120	9.843	250	0.787	20	13.098	5.940	4.724	120	9.843	250
GS 894 24	4.724	120	9.843	250	1.024	26	16.979	7.700	4.843	123	9.843	250
WS 894 24	4.724	120	9.843	250	1.024	26	16.979	7.700	4.724	120	9.843	250
AS 130170	5.118	130	6.693	170	0.039	1	0.143	0.065	5.118	130	6.693	170
GS 81126	5.118	130	6.693	170	0.354	9	1.462	0.663	5.197	132	6.693	170
LS 130170	5.118	130	6.693	170	0.354	9	1.462	0.663	5.118	130	6.693	170
WS 81126	5.118	130	6.693	170	0.354	9	1.462	0.663	5.118	130	6.693	170
GS 812 26	5.118	130	7.480	190	1.772	45	3.374	1.530	5.236	133	7.480	190
WS 812 26	5.118	130	7.480	190	1.772	45	3.374	1.530	5.118	130	7.362	187
GS 893 26	5.118	130	8.858	225	0.787	20	8.919	4.045	5.276	134	8.858	225
WS 893 26	5.118	130	8.858	225	0.787	20	8.919	4.045	5.118	130	8.858	225
GS 874 26	5.118	130	10.630	270	0.866	22	16.758	7.600	5.276	134	10.630	270
WS 874 26	5.118	130	10.630	270	0.866	22	16.758	7.600	5.118	130	10.630	270
GS 894 26	5.118	130	10.630	270	1.122	28.5	20.948	9.500	5.276	134	10.630	270
WS 894 26	5.118	130	10.630	270	1.122	28.5	20.948	9.500	5.118	130	10.630	270
55W07	5.502	139.751	6.570	166.878	0.126	3.200	0.353	0.160	5.502	139.751	6.570	166.878
AS 140180	5.512	140	7.087	180	0.039	1	0.174	0.079	5.512	140	7.087	180
GS 81128	5.512	140	7.087	180	0.374	9.5	1.652	0.749	5.591	142	7.087	180
LS 140180	5.512	140	7.087	180	0.374	9.5	1.652	0.749	5.512	140	7.087	180
WS 81128	5.512	140	7.087	180	0.374	9.5	1.652	0.749	5.512	140	7.008	178
GS 812 28	5.512	140	7.874	200	1.811	46	3.605	1.635	5.630	143	7.874	200
WS 812 28	5.512	140	7.874	200	1.811	46	3.605	1.635	5.512	140	7.756	197
GS 893 28	5.512	140	9.449	240	0.807	20.5	10.584	4.800	5.669	144	9.449	240
WS 893 28	5.512	140	9.449	240	0.807	20.5	10.584	4.800	5.512	140	9.449	240
GS 874 28	5.512	140	11.024	280	0.866	22	17.596	7.980	5.669	144	11.024	280
WS 874 28	5.512	140	11.024	280	0.866	22	17.596	7.980	5.512	140	11.024	280
GS 894 28	5.512	140	11.024	280	1.122	28.5	23.373	10.600	5.669	144	11.024	280
WS 894 28	5.512	140	11.024	280	1.122	28.5	23.373	10.600	5.512	140	11.024	280
AS 150190	5.906	150	7.480	190	0.039	1	0.185	0.084	5.906	150	7.480	190
GS 81130	5.906	150	7.480	190	0.374	9.5	1.755	0.796	5.984	152	7.480	190
LS 150190	5.906	150	7.480	190	0.374	9.5	1.755	0.796	5.906	150	7.480	190
WS 81130	5.906	150	7.480	190	0.374	9.5	1.755	0.796	5.906	150	7.402	188
GS 812 30	5.906	150	8.465	215	1.969	50	4.807	2.180	6.024	153	8.465	215
WS 812 30	5.906	150	8.465	215	1.969	50	4.807	2.180	5.906	150	8.347	212
GS 893 30	5.906	150	9.843	250	0.807	20.5	11.157	5.060	6.063	154	9.843	250
WS 893 30	5.906	150	9.843	250	0.807	20.5	11.157	5.060	5.906	150	9.843	250
GS 874 30	5.906	150	11.811	300	0.906	23	21.124	9.580	6.063	154	11.811	300
WS 874 30	5.906	150	11.811	300	0.906	23	21.124	9.580	5.906	150	11.811	300
GS 894 30	5.906	150	11.811	300	1.181	30	27.563	12.500	6.063	154	11.811	300
WS 894 30	5.906	150	11.811	300	1.181	30	27.563	12.500	5.906	150	11.811	300
AS 160200	6.299	160	7.874	200	0.039	1	0.196	0.089	6.299	160	7.874	200
GS 81132	6.299	160	7.874	200	0.374	9.5	1.857	0.842	6.378	162	7.874	200
LS 160200	6.299	160	7.874	200	0.374	9.5	1.857	0.842	6.299	160	7.874	200
WS 81132	6.299	160	7.874	200	0.374	9.5	1.857	0.842	6.299	160	7.795	198
GS 812 32	6.299	160	8.858	225	2.008	51	5.072	2.300	6.417	163	8.858	225
WS 812 32	6.299	160	8.858	225	2.008	51	5.072	2.300	6.299	160	8.740	222

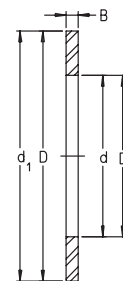


Thrust Washers

FLAT RACE THRUST WASHERS

SORTED BY SHAFT DIMENSION

- Metric: AS, GS, LS, WS series
- Inch: TWA, TWB, TWC, TWD series
- Special Dimensions: F & FC
- Axial contact



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.

For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

PART NUMBER	SHAFT d	SHAFT d	HOUSING D	HOUSING D	THICKNESS B	THICKNESS B	WEIGHT	WEIGHT	BORE D ₁	BORE D ₁	OD d ₁	OD d ₁
	inch	mm	inch	mm	inch	mm	pounds	kilograms	inch	mm	inch	mm
GS 893 32	6.299	160	10.630	270	0.906	23	14.840	6.730	6.457	164	10.630	270
WS 893 32	6.299	160	10.630	270	0.906	23	14.840	6.730	6.299	160	10.630	270
GS 874 32	6.299	160	12.598	320	1.004	25.5	26.681	12.100	6.457	164	12.598	320
WS 874 32	6.299	160	12.598	320	1.004	25.5	26.681	12.100	6.299	160	12.598	320
GS 894 32	6.299	160	12.598	320	1.240	31.5	32.634	14.800	6.457	164	12.598	320
WS 894 32	6.299	160	12.598	320	1.240	31.5	32.634	14.800	6.299	160	12.598	320
GS 811 34	6.693	170	8.465	215	0.394	10	2.426	1.100	6.772	172	8.465	215
WS 811 34	6.693	170	8.465	215	0.394	10	2.426	1.100	6.693	170	8.386	213
GS 812 34	6.693	170	9.449	240	2.165	55	6.395	2.900	6.811	173	9.449	240
WS 812 34	6.693	170	9.449	240	2.165	55	6.395	2.900	6.693	170	9.331	237
GS 893 34	6.693	170	11.024	280	0.906	23	15.501	7.030	6.850	174	11.024	280
WS 893 34	6.693	170	11.024	280	0.906	23	15.501	7.030	6.693	170	11.024	280
GS 874 34	6.693	170	13.386	340	1.063	27	31.973	14.500	6.850	174	13.386	340
WS 874 34	6.693	170	13.386	340	1.063	27	31.973	14.500	6.693	170	13.386	340
GS 894 34	6.693	170	13.386	340	1.358	34.5	40.793	18.500	6.850	174	13.386	340
WS 894 34	6.693	170	13.386	340	1.358	34.5	40.793	18.500	6.693	170	13.386	340
GS 811 36	7.087	180	8.858	225	0.394	10	2.470	1.120	7.205	183	8.858	225
WS 811 36	7.087	180	8.858	225	0.394	10	2.470	1.120	7.087	180	8.740	222
GS 812 36	7.087	180	9.843	250	2.205	56	6.902	3.130	7.205	183	9.843	250
WS 812 36	7.087	180	9.843	250	2.205	56	6.902	3.130	7.087	180	9.724	247
GS 893 36	7.087	180	11.811	300	0.965	24.5	19.184	8.700	7.244	184	11.811	300
WS 893 36	7.087	180	11.811	300	0.965	24.5	19.184	8.700	7.087	180	11.811	300
GS 874 36	7.087	180	14.173	360	1.122	28.5	37.706	17.100	7.244	184	14.173	360
WS 874 36	7.087	180	14.173	360	1.122	28.5	37.706	17.100	7.087	180	14.173	360
GS 894 36	7.087	180	14.173	360	1.437	36.5	46.967	21.300	7.244	184	14.173	360
WS 894 36	7.087	180	14.173	360	1.437	36.5	46.967	21.300	7.087	180	14.173	360
GS 811 38	7.480	190	9.449	240	0.433	11	3.197	1.450	7.598	193	9.449	240
WS 811 38	7.480	190	9.449	240	0.433	11	3.197	1.450	7.480	190	9.331	237
GS 812 38	7.480	190	10.630	270	2.441	62	8.456	3.835	7.638	194	10.630	270
WS 812 38	7.480	190	10.630	270	2.441	62	8.456	3.835	7.480	190	10.512	267
GS 893 38	7.480	190	12.598	320	1.024	26	23.439	10.630	7.677	195	12.598	320
WS 893 38	7.480	190	12.598	320	1.024	26	23.439	10.630	7.480	190	12.598	320
GS 874 38	7.480	190	14.961	380	1.161	29.5	43.659	19.800	7.677	195	14.961	380
WS 874 38	7.480	190	14.961	380	1.161	29.5	43.659	19.800	7.480	190	14.961	380
GS 894 38	7.480	190	14.961	380	1.516	38.5	56.448	25.600	7.677	195	14.961	380
WS 894 38	7.480	190	14.961	380	1.516	38.5	56.448	25.600	7.480	190	14.961	380
GS 811 40	7.874	200	9.843	250	0.433	11	3.33	1.510	7.992	203	9.843	250
WS 811 40	7.874	200	9.843	250	0.433	11	3.33	1.510	7.874	200	9.724	247
GS 812 40	7.874	200	11.024	280	2.441	62	9.724	4.410	8.032	204	11.024	280
WS 812 40	7.874	200	11.024	280	2.441	62	9.724	4.410	7.874	200	10.906	277
GS 893 40	7.874	200	13.386	340	1.122	28.5	27.717	12.570	8.071	205	13.386	340
WS 893 40	7.874	200	13.386	340	1.122	28.5	27.717	12.570	7.874	200	13.386	340
GS 874 40	7.874	200	15.748	400	1.221	31	50.715	23.000	8.071	205	15.748	400
WS 874 40	7.874	200	15.748	400	1.221	31	50.715	23.000	7.874	200	15.748	400
GS 894 40	7.874	200	15.748	400	1.614	41	64.607	29.300	8.071	205	15.748	400
WS 894 40	7.874	200	15.748	400	1.614	41	64.607	29.300	7.874	200	15.748	400

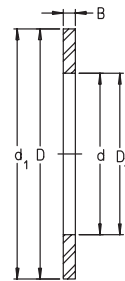


Thrust Washers

FLAT RACE THRUST WASHERS

SORTED BY SHAFT DIMENSION

- Metric: AS, GS, LS, WS series
- Inch: TWA, TWB, TWC, TWD series
- Special Dimensions: F & FC
- Axial contact



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.

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PART NUMBER	SHAFT d inch	SHAFT d mm	HOUSING D inch	HOUSING D mm	THICKNESS B inch	THICKNESS B mm	WEIGHT pounds	WEIGHT kilograms	BORE D ₁ inch	BORE D ₁ mm	OD d ₁ inch	OD d ₁ mm
GS 811 44	8.661	220	10.630	270	0.433	11	3.506	1.590	8.780	223	10.630	270
WS 811 44	8.661	220	10.630	270	0.433	11	3.506	1.590	8.661	220	10.512	267
GS 812 44	8.661	220	11.811	300	2.480	63	10.474	4.750	8.819	224	11.811	300
WS 812 44	8.661	220	11.811	300	2.480	63	10.474	4.750	8.661	220	11.693	297
GS 894 44	8.661	220	16.535	420	1.614	41	71.001	32.200	8.858	225	16.535	420
WS 894 44	8.661	220	16.535	420	1.614	41	71.001	32.200	8.661	220	16.535	420
GS 811 48	9.449	240	11.811	300	0.532	13.5	5.667	2.570	9.567	243	11.811	300
WS 811 48	9.449	240	11.811	300	0.532	13.5	5.667	2.570	9.449	240	11.693	297
GS 812 48	9.449	240	13.386	340	3.071	78	17.971	8.150	9.606	244	13.386	340
WS 812 48	9.449	240	13.386	340	3.071	78	17.971	8.150	9.449	240	13.189	335
GS 894 48	9.449	240	17.323	440	1.614	41	75.632	34.300	9.646	245	17.323	440
WS 894 48	9.449	240	17.323	440	1.614	41	75.632	34.300	9.449	240	17.323	440
GS 811 52	10.236	260	12.598	320	0.532	13.5	6.097	2.765	10.354	263	12.598	320
WS 811 52	10.236	260	12.598	320	0.532	13.5	6.097	2.765	10.236	260	12.480	317
GS 812 52	10.236	260	14.173	360	3.110	79	19.625	8.900	10.394	264	14.173	360
WS 812 52	10.236	260	14.173	360	3.110	79	19.625	8.900	10.236	260	13.976	355
GS 894 52	10.236	260	18.898	480	1.732	44	97.571	44.250	10.433	265	18.898	480
WS 894 52	10.236	260	18.898	480	1.732	44	97.571	44.250	10.236	260	18.898	480
GS 811 56	11.024	280	13.780	350	0.610	15.5	8.048	3.650	11.142	283	13.780	350
WS 811 56	11.024	280	13.780	350	0.610	15.5	8.048	3.650	11.024	280	13.661	347
GS 812 56	11.024	280	14.961	380	3.150	80	21.499	9.750	11.181	284	14.961	380
WS 812 56	11.024	280	14.961	380	3.150	80	21.499	9.750	11.024	280	14.764	375
GS 894 56	11.024	280	20.472	520	1.909	48.5	122.598	55.600	11.221	285	20.472	520
WS 894 56	11.024	280	20.472	520	1.909	48.5	122.598	55.600	11.024	280	20.472	520
GS 811 60	11.811	300	14.961	380	0.728	18.5	13.054	5.920	11.969	304	14.961	380
WS 811 60	11.811	300	14.961	380	0.728	18.5	13.054	5.920	11.811	300	14.803	376
GS 812 60	11.811	300	16.535	420	3.740	95	33.516	15.200	11.969	304	16.535	420
WS 812 60	11.811	300	16.535	420	3.740	95	33.516	15.200	11.811	300	16.339	415
GS 894 60	11.811	300	21.260	540	1.909	48.5	176.731	80.150	12.008	305	21.260	540
WS 894 60	11.811	300	21.260	540	1.909	48.5	176.731	80.150	11.811	300	21.260	540
GS 811 64	12.598	320	15.748	400	0.748	19	14.002	6.350	12.756	324	15.748	400
WS 811 64	12.598	320	15.748	400	0.748	19	14.002	6.350	12.598	320	15.591	396
GS 812 64	12.598	320	17.323	440	3.740	95	35.170	15.950	12.795	325	17.323	440
WS 812 64	12.598	320	17.323	440	3.740	95	35.170	15.950	12.598	320	17.126	435
GS 811 68	13.386	340	16.535	420	0.768	19.5	15.369	6.970	13.543	344	16.535	420
WS 811 68	13.386	340	16.535	420	0.768	19.5	15.369	6.970	13.386	340	16.378	416
GS 812 68	13.386	340	18.110	460	3.780	96	39.139	17.750	13.583	345	18.110	460
WS 812 68	13.386	340	18.110	460	3.780	96	39.139	17.750	13.386	340	17.913	455
GS 811 72	14.173	360	17.323	440	0.787	20	15.380	6.975	14.331	364	17.323	440
WS 811 72	14.173	360	17.323	440	0.787	20	15.380	6.975	14.173	360	17.165	436
GS 812 72	14.173	360	19.685	500	4.331	110	53.361	24.200	14.370	365	19.685	500
WS 812 72	14.173	360	19.685	500	4.331	110	53.361	24.200	14.173	360	19.488	495
GS 811 76	14.961	380	18.110	460	0.787	20	17.442	7.910	15.118	384	18.110	460
WS 811 76	14.961	380	18.110	460	0.787	20	17.442	7.910	14.961	380	17.953	456
GS 812 76	14.961	380	20.472	520	4.409	112	57.771	26.200	15.158	385	20.472	520
WS 812 76	14.961	380	20.472	520	4.409	112	57.771	26.200	14.961	380	20.276	515

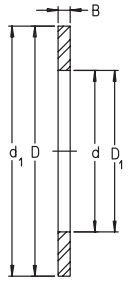


Thrust Washers

FLAT RACE THRUST WASHERS

SORTED BY SHAFT DIMENSION

- Metric: AS, GS, LS, WS series
- Inch: TWA, TWB, TWC, TWD series
- Special Dimensions: F & FC
- Axial contact



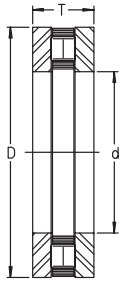
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PART NUMBER	SHAFT		HOUSING		THICKNESS		WEIGHT		BORE		OD	
	d inch	d mm	D inch	D mm	B inch	B mm	pounds	kilograms	D ₁ inch	D ₁ mm	d ₁ inch	d ₁ mm
GS 811 80	15.748	400	18.898	480	0.787	20	18.213	8.260	15.906	404	18.898	480
WS 811 80	15.748	400	18.898	480	0.787	20	18.213	8.260	15.748	400	18.740	476
GS 812 80	15.748	400	21.260	540	4.409	112	60.197	27.300	15.945	405	21.260	540
WS 812 80	15.748	400	21.260	540	4.409	112	60.197	27.300	15.748	400	21.063	535
GS 811 84	16.535	420	19.685	500	0.787	20	19.073	8.650	16.693	424	19.685	500
WS 811 84	16.535	420	19.685	500	0.787	20	19.073	8.650	16.535	420	19.488	495
GS 812 84	16.535	420	22.835	580	5.118	130	76.734	34.800	16.732	425	22.835	580
WS 812 84	16.535	420	22.835	580	5.118	130	76.734	34.800	16.535	420	22.638	575
GS 811 88	17.323	440	21.260	540	0.945	24	30.760	13.950	17.480	444	21.260	540
WS 811 88	17.323	440	21.260	540	0.945	24	30.760	13.950	17.323	440	21.063	535
GS 812 88	17.323	440	23.622	600	5.118	130	89.303	40.500	17.520	445	23.622	600
WS 812 88	17.323	440	23.622	600	5.118	130	89.303	40.500	17.323	440	23.425	595
GS 811 92	18.110	460	22.047	560	0.945	24	32.171	14.590	18.268	464	22.047	560
WS 811 92	18.110	460	22.047	560	0.945	24	32.171	14.590	18.110	460	21.850	555
GS 812 92	18.110	460	24.409	620	5.118	130	98.784	44.800	18.307	465	24.409	620
WS 812 92	18.110	460	24.409	620	5.118	130	98.784	44.800	18.110	460	24.213	615
GS 811 96	18.898	480	22.835	580	0.945	24	33.296	15.100	19.055	484	22.835	580
WS 811 96	18.898	480	22.835	580	0.945	24	33.296	15.100	18.898	480	22.638	575
GS 812 96	18.898	480	25.591	650	5.315	135	104.186	47.250	19.095	485	25.591	650
WS 812 96	18.898	480	25.591	650	5.315	135	104.186	47.250	18.898	480	25.394	645
GS811/500	19.685	500	23.622	600	0.945	24	34.354	15.580	19.882	505	23.622	600
WS811/500	19.685	500	23.622	600	0.945	24	34.354	15.580	19.685	500	23.425	595
GS812/500	19.685	500	26.378	670	5.315	135	108.045	49	19.882	505	26.378	670
WS812/500	19.685	500	26.378	670	5.315	135	108.045	49	19.685	500	26.181	665
GS811/530	20.866	530	25.197	640	1.004	25.5	43.549	19.750	21.063	535	25.197	640
WS811/530	20.866	530	25.197	640	1.004	25.5	43.549	19.750	20.866	530	25.000	635
GS812/530	20.866	530	27.953	710	5.512	140	122.929	55.750	21.063	535	27.953	710
WS812/530	20.866	530	27.953	710	5.512	140	122.929	55.750	20.866	530	27.756	705
ASS560X604X2,3A	22.047	560	23.780	604	0.091	2.3	1.610	0.730	22.047	560	23.780	604
GS811/560	22.047	560	26.378	670	1.004	25.5	45.313	20.550	22.244	565	26.378	670
WS811/560	22.047	560	26.378	670	1.004	25.5	45.313	20.550	22.047	560	26.181	665
GS812/560	22.047	560	29.528	750	5.906	150	154.791	70.200	22.244	565	29.528	750
WS812/560	22.047	560	29.528	750	5.906	150	154.791	70.200	22.047	560	29.331	745
GS811/600	23.622	600	27.953	710	1.004	25.5	48.290	21.900	23.819	605	27.953	710
WS811/600	23.622	600	27.953	710	1.004	25.5	48.290	21.900	23.622	600	27.756	705
GS812/600	23.622	600	31.496	800	6.299	160	202.199	91.700	23.819	605	31.496	800
WS812/600	23.622	600	31.496	800	6.299	160	202.199	91.700	23.622	600	31.299	795



Roller Thrust Bearings

811 SERIES



- Metric series
- Axial cylindrical roller bearings
- Cage assembly with washers
- High axial loads
- Speed limit shown is for oil lubrication
- Part numbers shown in bold may **not** be readily available, please call to check availability.

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.

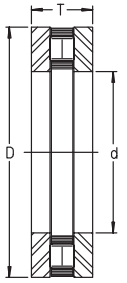
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PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT kg	DYN. CAP. AXIAL lbf	DYN. CAP. AXIAL N	STAT. CAP. AXIAL lbf	STAT. CAP. AXIAL N	SPEED LIMIT rpm
811 02 TN	0.591	15	1.102	28	0.354	9	0.053	0.024	3200	14400	6400	28500	13000
811 03 TN	0.669	17	1.181	30	0.354	9	0.060	0.027	3600	15900	7500	33500	12000
811 04 TN	0.787	20	1.378	35	0.394	10	0.082	0.037	5600	24900	11900	53000	10000
811 05 TN	0.984	25	1.654	42	0.433	11	0.117	0.053	7500	33500	17100	76000	8500
811 06 TN	1.181	30	1.850	47	0.433	11	0.126	0.057	8000	35500	19300	86000	7500
811 07 TN	1.378	35	2.047	52	0.472	12	0.161	0.073	8800	39000	22700	101000	6500
811 08 TN	1.575	40	2.362	60	0.512	13	0.232	0.105	12600	56000	33000	148000	6000
811 09 TN	1.772	45	2.559	65	0.551	14	0.287	0.13	13300	59000	37000	163000	5000
811 10 TN	1.969	50	2.756	70	0.551	14	0.309	0.14	13700	61000	40000	177000	4800
811 11 TN	2.165	55	3.071	78	0.630	16	0.481	0.218	20200	90000	67000	300000	4300
811 12 TN	2.362	60	3.346	85	0.669	17	0.587	0.266	23200	103000	71000	315000	4000
811 13 TN	2.559	65	3.543	90	0.709	18	0.684	0.31	24100	107000	76000	340000	3700
811 14 TN	2.756	70	3.740	95	0.709	18	0.732	0.332	25000	111000	82000	365000	3500
811 15 TN	2.953	75	3.937	100	0.748	19	0.867	0.393	24100	107000	79000	350000	3300
811 16 TN	3.150	80	4.134	105	0.748	19	0.882	0.4	23800	106000	79000	350000	3100
811 17 TN	3.347	85	4.331	110	0.748	19	0.926	0.42	25200	112000	87000	385000	3000
811 18 TN	3.543	90	4.724	120	0.866	22	1.367	0.62	32000	141000	105000	465000	2700
811 20 TN	3.937	100	5.315	135	0.984	25	2.095	0.95	45000	199000	146000	650000	2500
811 22 TN	4.331	110	5.709	145	0.984	25	2.293	1.04	47000	207000	157000	700000	2300
811 24 TN	4.724	120	6.102	155	0.984	25	2.470	1.12	48000	214000	171000	790000	2100
811 26 TN	5.118	130	6.693	170	1.181	30	3.682	1.67	56000	250000	202000	900000	1900
811 28 TN	5.512	140	7.087	180	1.220	31	4.190	1.9	58000	260000	216000	960000	1800
811 30 TN	5.906	150	7.480	190	1.220	31	4.454	2.02	61000	270000	229000	1020000	1700
811 32	6.299	160	7.874	200	1.220	31	4.827	2.189	61000	270000	236000	1050000	1600
811 34	6.693	170	8.465	215	1.339	34	6.505	2.95	81000	360000	310000	1380000	1500
811 36	7.087	180	8.858	225	1.339	34	6.703	3.04	76000	340000	292000	1300000	1400
811 38	7.480	190	9.449	240	1.457	37	8.467	3.84	87000	385000	337000	1500000	1300
811 40	7.874	200	9.843	250	1.457	37	8.820	4.00	88000	390000	348000	1550000	1300
811 44	8.661	220	10.630	270	1.457	37	9.923	4.50	94000	420000	389000	1730000	1200
811 48	9.449	240	11.811	300	1.772	45	15.986	7.25	135000	600000	562000	2500000	1100
811 52	10.236	260	12.598	320	1.772	45	17.265	7.83	139000	620000	596000	2650000	1000
811 56	11.024	280	13.780	350	2.087	53	22.712	10.30	193000	860000	821000	3650000	900
811 60	11.811	300	14.961	380	2.441	62	36.757	16.67	238000	1060000	1012000	4500000	850
811 64	12.598	320	15.748	400	2.480	63	39.293	17.82	247000	1100000	1068000	4750000	800
811 68	13.386	340	16.535	420	2.520	64	42.887	19.45	254000	1130000	1124000	5000000	750
811 72	14.173	360	17.323	440	2.559	65	42.998	19.50	256000	1140000	1147000	5100000	700
811 76	14.961	380	18.110	460	2.559	65	48.290	21.90	263000	1170000	1214000	5400000	700
811 80	15.748	400	18.898	480	2.559	65	50.583	22.94	270000	1200000	1281000	5700000	650
811 84	16.535	420	19.685	500	2.559	65	52.479	23.80	277000	1230000	1326000	5900000	650
811 88	17.323	440	21.260	540	3.150	80	86.921	39.42	400000	1780000	1844000	8200000	600
811 92	18.110	460	22.047	560	3.150	80	90.581	41.08	414000	1840000	1956000	8700000	550
811 96	18.898	480	22.835	580	3.150	80	94.264	42.75	418000	1860000	2001000	8900000	550
811/500	19.685	500	23.622	600	3.150	80	97.218	44.09	429000	1910000	2091000	9300000	500
811/530	20.866	530	25.197	640	3.346	85	122.333	55.48	481000	2140000	2361000	10500000	490
811/560	22.047	560	26.378	670	3.346	85	127.647	57.89	492000	2190000	2473000	11000000	470
811/600	23.622	600	27.953	710	3.346	85	136.159	61.75	501000	2230000	2585000	11500000	440



Roller Thrust Bearings

812 SERIES



- Metric series
- Axial cylindrical roller bearings
- Cage assembly with washers
- High axial loads
- Speed limit shown is for oil lubrication
- Part numbers shown in bold may **not** be readily available, please call to check availability.

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
 For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

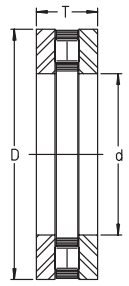
PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT kg	DYN. CAP. lbf	DYN. CAP. kN	STAT. CAP. lbf	STAT. CAP. kN	SPEED LIMIT rpm
812 06 TN	1.181	30	2.047	52	0.630	16	0.271	0.123	14400	64	31700	141	7000
812 07 TN	1.378	35	2.441	62	0.709	18	0.430	0.195	18000	80	44700	199	6000
812 08 TN	1.575	40	2.677	68	0.748	19	0.549	0.249	24100	107	60000	265	5500
812 09 TN	1.772	45	2.874	73	0.787	20	0.633	0.287	23600	105	60000	265	4900
812 10 TN	1.969	50	3.071	78	0.866	22	0.785	0.356	26300	117	71000	315	4500
812 11 TN	2.165	55	3.543	90	0.984	25	1.252	0.568	34600	154	91000	405	4000
812 12 TN	2.362	60	3.740	95	1.024	26	1.416	0.642	38700	172	108000	480	3700
812 13 TN	2.559	65	3.937	100	1.063	27	1.590	0.721	39800	177	112000	500	3500
812 14 TN	2.756	70	4.134	105	1.063	27	1.693	0.768	42000	187	124000	550	3300
812 15 TN	2.953	75	4.331	110	1.063	27	1.764	0.800	38700	172	112000	500	3100
812 16 TN	3.150	80	4.528	115	1.102	28	1.985	0.900	45200	201	142000	630	3000
812 17 TN	3.347	85	4.921	125	1.220	31	2.778	1.260	48800	217	148000	660	2700
812 18 TN	3.543	90	5.315	135	1.378	35	3.903	1.770	65000	290	200000	890	2600
812 20 TN	3.937	100	5.906	150	1.496	38	4.851	2.200	76000	340	243000	1080	2300
812 22 TN	4.331	110	6.299	160	1.496	38	5.049	2.290	73000	325	232000	1030	2100
812 24 TN	4.724	120	6.693	170	1.535	39	5.601	2.540	76000	340	252000	1120	2000
812 26	5.118	130	7.480	190	1.772	45	9.270	4.204	108000	480	342000	1520	1800
812 28	5.512	140	7.874	200	1.811	46	10.070	4.567	100000	445	326000	1450	1700
812 30	5.906	150	8.465	215	1.969	50	12.979	5.886	133000	590	436000	1940	1600
812 32	6.299	160	8.858	225	2.008	51	13.678	6.203	135000	600	456000	2030	1500
812 34	6.693	170	9.449	240	2.165	55	16.956	7.690	153000	680	530000	2340	1400
812 36	7.087	180	9.843	250	2.205	56	18.169	8.240	155000	690	550000	2440	1300
812 38	7.480	190	10.630	270	2.441	62	22.932	10.400	198000	880	670000	3000	1300
812 40	7.874	200	11.024	280	2.441	62	26.262	11.910	202000	900	710000	3150	1200
812 44	8.661	220	11.811	300	2.480	63	28.334	12.850	211000	940	780000	3450	1100
812 48	9.449	240	13.386	340	3.071	78	48.400	21.950	308000	1370	1120000	5000	1000
812 52	10.236	260	14.173	360	3.110	79	52.700	23.900	324000	1440	1210000	5400	950
812 56	11.024	280	14.961	380	3.150	80	57.110	25.900	328000	1460	1260000	5600	850
812 60	11.811	300	16.535	420	3.740	95	89.413	40.550	434000	1930	1640000	7300	800
812 64	12.598	320	17.323	440	3.740	95	93.933	42.600	441000	1960	1710000	7600	750
812 68	13.386	340	18.110	460	3.780	96	103.084	46.750	463000	2060	1870000	8300	700
812 72	14.173	360	19.685	500	4.331	110	144.758	65.650	610000	2700	2380000	10600	650
812 76	14.961	380	20.472	520	4.409	112	154.571	70.100	620000	2750	2470000	11000	650
812 80	15.748	400	21.260	540	4.409	112	161.186	73.100	630000	2800	2560000	11400	600
812 84	16.535	420	22.835	580	5.118	130	210.798	95.600	790000	3500	3190000	14200	600
812 88	17.323	440	23.622	600	5.118	130	238.581	108.200	810000	3600	3330000	14800	550
812 92	18.110	460	24.409	620	5.118	130	259.749	117.800	820000	3650	3460000	15400	550
812 96	18.898	480	25.591	650	5.315	135	282.902	128.300	920000	4100	3820000	17000	500
812/500	19.685	500	26.378	670	5.315	135	293.265	133.000	930000	4150	3960000	17600	490
812/530	20.866	530	27.953	710	5.512	140	339.019	153.750	1070000	4750	4560000	20300	460
812/560	22.047	560	29.528	750	5.906	150	413.217	187.400	1090000	4850	4740000	21100	440
812/600	23.622	600	31.496	800	6.299	160	529.531	240.150	1240000	5500	5400000	24000	410



Roller Thrust Bearings

893 SERIES

- Metric series
 - Axial cylindrical roller bearings
 - Cage assembly with washers
 - Very high axial loads
 - Speed limit shown is for oil lubrication
- Part numbers shown in bold may **not** be readily available, please call to check availability.



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.

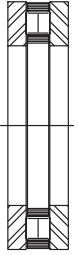
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH T inch	WIDTH T mm	WEIGHT lbs	WEIGHT kg	DYN. CAP. lbf	DYN. CAP. kN	STAT. CAP. lbf	STAT. CAP. kN	SPEED LIMIT rpm
893 06 TN	1.181	30	2.362	60	0.709	18	0.529	0.240	15500	69	44500	197	6500
893 07 TN	1.378	35	2.677	68	0.787	20	0.750	0.340	18000	80	53000	237	5500
893 08 TN	1.575	40	3.071	78	0.866	22	1.067	0.484	27500	122	87000	385	4900
893 09 TN	1.772	45	3.346	85	0.945	24	1.356	0.615	31500	139	100000	445	4400
893 10 TN	1.969	50	3.740	95	1.063	27	1.956	0.887	37500	167	126000	560	4000
893 11 TN	2.165	55	4.134	105	1.181	30	2.602	1.180	41500	184	135000	600	3600
893 12 TN	2.362	60	4.331	110	1.181	30	2.778	1.260	44000	196	151000	670	3400
893 13 TN	2.559	65	4.528	115	1.181	30	2.933	1.330	43500	194	151000	670	3200
893 14 TN	2.756	70	4.921	125	1.339	34	4.013	1.820	54000	239	187000	830	3000
893 15 TN	2.953	75	5.315	135	1.417	36	4.917	2.230	64000	285	227000	1010	2700
893 16 TN	3.150	80	5.512	140	1.417	36	5.226	2.370	69000	305	250000	1110	2600
893 17	3.347	85	5.906	150	1.535	39	6.615	3.000	73000	325	255000	1140	2500
893 18	3.543	90	6.102	155	1.535	39	7.232	3.280	74000	330	270000	1200	2400
893 20 TN	3.937	100	6.693	170	1.654	42	8.952	4.060	85000	380	315000	1400	2100
893 22 M	4.331	110	7.480	190	1.890	48	13.296	6.030	112000	500	420000	1870	1900
893 24	4.724	120	8.268	210	2.126	54	18.787	8.520	144000	640	545000	2420	1700
893 26	5.118	130	8.858	225	2.283	58	22.050	10.000	160000	710	605000	2700	1600
893 28	5.512	140	9.449	240	2.362	60	26.438	11.990	184000	820	720000	3200	1500
893 30	5.906	150	9.843	250	2.362	60	27.849	12.630	189000	840	755000	3350	1400
893 32	6.299	160	10.630	270	2.638	67	36.625	16.610	218000	970	875000	3900	1300
893 34	6.693	170	11.024	280	2.638	67	38.279	17.360	225000	1000	901000	4050	1300
893 36	7.087	180	11.811	300	2.874	73	48.753	22.110	285000	1260	1145000	5100	1200
893 38	7.480	190	12.598	320	3.071	78	59.248	26.870	320000	1420	1280000	5700	1100
893 40	7.874	200	13.386	340	3.346	85	70.406	31.930	365000	1630	1485000	6600	1100



Metric Roller Thrust Bearing Assemblies & Components

- 811, 812 series, single row
- 874 series multi-row
- 893, 894 series, double row



811 SHOWN FOR REFERENCE

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
 For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

ASSEMBLY PART NUMBER	CAGE PART NUMBER	HOUSING WASHER PART NUMBER	SHAFT WASHER PART NUMBER
811 02 TN	K 811 02 TN	GS 811 02	WS 811 02
811 03 TN	K 811 03 TN	GS 811 03	WS 811 03
811 04 TN	K 811 04 TN	GS 811 04	WS 811 04
811 05 TN	K 811 05 TN	GS 811 05	WS 811 05
811 06 TN	K 811 06 TN	GS 811 06	WS 811 06
811 07 TN	K 811 07 TN	GS 811 07	WS 811 07
811 08 TN	K 811 08 TN	GS 811 08	WS 811 08
811 09 TN	K 811 09 TN	GS 811 09	WS 811 09
811 10 TN	K 811 10 TN	GS 811 10	WS 811 10
811 11 TN	K 811 11 TN	GS 811 11	WS 811 11
811 12 TN	K 811 12 TN	GS 811 12	WS 811 12
811 13 TN	K 811 13 TN	GS 811 13	WS 811 13
811 14 TN	K 811 14 TN	GS 811 14	WS 811 14
811 15 TN	K 811 15 TN	GS 811 15	WS 811 15
811 16 TN	K 811 16 TN	GS 811 16	WS 811 16
811 17 TN	K 811 17 TN	GS 811 17	WS 811 17
811 18 TN	K 811 18 TN	GS 811 18	WS 811 18
811 20 TN	K 811 20 TN	GS 811 20	WS 811 20
811 22 TN	K 811 22 TN	GS 811 22	WS 811 22
811 24 TN	K 811 24	GS 811 24	WS 811 24
811 26 TN	K 811 26	GS 811 26	WS 811 26
811 28 TN	K 811 28	GS 811 28	WS 811 28
811 30 TN	K 811 30	GS 811 30	WS 811 30
811 32	K 811 32	GS 811 32	WS 811 32
811 34	K 811 34	GS 811 34	WS 811 34
811 36	K 811 36	GS 811 36	WS 811 36
811 38	K 811 38	GS 811 38	WS 811 38
811 40	K 811 40	GS 811 40	WS 811 40
811 44	K 811 44	GS 811 44	WS 811 44
811 48	K 811 48	GS 811 48	WS 811 48
811 52	K 811 52	GS 811 52	WS 811 52
811 56	K 811 56	GS 811 56	WS 811 56
811 60	K 811 60	GS 811 60	WS 811 60
811 64	K 811 64	GS 811 64	WS 811 64
811 68	K 811 68	GS 811 68	WS 811 68
811 72	K 811 72	GS 811 72	WS 811 72
811 76	K 811 76	GS 811 76	WS 811 76
811 80	K 811 80	GS 811 80	WS 811 80
811 84	K 811 84	GS 811 84	WS 811 84
811 88	K 811 88	GS 811 88	WS 811 88
811 92	K 811 92	GS 811 92	WS 811 92
811 96	K 811 96	GS 811 96	WS 811 96
811/500	K811/500	GS811/500	WS811/500
811/530	K811/530	GS811/530	WS811/530
811/560	K811/560	GS811/560	WS811/560
811/600	K811/600	GS811/600	WS811/600
812 06 TN	K812 06 TN	GS 812 06	WS 812 06



Metric Roller Thrust Bearing Assemblies & Components

- 811, 812 series, single row
- 874 series multi-row
- 893, 894 series, double row



811 SHOWN
FOR REFERENCE

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.

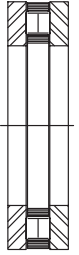
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

ASSEMBLY PART NUMBER	CAGE PART NUMBER	HOUSING WASHER PART NUMBER	SHAFT WASHER PART NUMBER
812 07 TN	K812 07 TN	GS 812 07	WS 812 07
812 08 TN	K812 0K8 TN	GS 812 08	WS 812 08
812 09 TN	K812 09 TN	GS 812 09	WS 812 09
812 10 TN	K812 10 TN	GS 812 10	WS 812 10
812 11 TN	K812 11 TN	GS 812 11	WS 812 11
812 12 TN	K812 12 TN	GS 812 12	WS 812 12
812 13 TN	K812 13 TN	GS 812 13	WS 812 13
812 14 TN	K812 14 TN	GS 812 14	WS 812 14
812 15 TN	K812 15 TN	GS 812 15	WS 812 15
812 16 TN	K812 16 TN	GS 812 16	WS 812 16
812 17 TN	K812 17 TN	GS 812 17	WS 812 17
812 18 TN	K812 1K8 TN	GS 812 18	WS 812 18
812 20 TN	K812 20 TN	GS 812 20	WS 812 20
812 22 TN	K812 22 TN	GS 812 22	WS 812 22
812 24 TN	K812 24 TN	GS 812 24	WS 812 24
812 26	K812 26	GS 812 26	WS 812 26
812 28	K812 2K8	GS 812 28	WS 812 28
812 30	K812 30	GS 812 30	WS 812 30
812 32	K812 32	GS 812 32	WS 812 32
812 34	K812 34	GS 812 34	WS 812 34
812 36	K812 36	GS 812 36	WS 812 36
812 38	K812 3K8	GS 812 38	WS 812 38
812 40	K812 40	GS 812 40	WS 812 40
812 44	K812 44	GS 812 44	WS 812 44
812 48	K812 4K8	GS 812 48	WS 812 48
812 52	K812 52	GS 812 52	WS 812 52
812 56	K812 56	GS 812 56	WS 812 56
812 60	K812 60	GS 812 60	WS 812 60
812 64	K812 64	GS 812 64	WS 812 64
812 68	K812 6K8	GS 812 68	WS 812 68
812 72	K812 72	GS 812 72	WS 812 72
812 76	K812 76	GS 812 76	WS 812 76
812 80	K812 K80	GS 812 80	WS 812 80
812 84	K812 K84	GS 812 84	WS 812 84
812 88	K812 K8K8	GS 812 88	WS 812 88
812 92	K812 92	GS 812 92	WS 812 92
812 96	K812 96	GS 812 96	WS 812 96
812/500	K812/500	GS812/500	WS812/500
812/530	K812/530	GS812/530	WS812/530
812/560	K812/560	GS812/560	WS812/560
812/600	K812/600	GS812/600	WS812/600
893 06 TN	K 893 06 TN	GS 893 06	WS 893 06
893 07 TN	K 893 07 TN	GS 893 07	WS 893 07
893 08 TN	K 893 08 TN	GS 893 08	WS 893 08
893 09 TN	K 893 09 TN	GS 893 09	WS 893 09
893 10 TN	K 893 10 TN	GS 893 10	WS 893 10
893 11 TN	K 893 11 TN	GS 893 11	WS 893 11



Metric Roller Thrust Bearing Assemblies & Components

- 811, 812 series, single row
- 874 series multi-row
- 893, 894 series, double row



811 SHOWN FOR REFERENCE

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.

For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

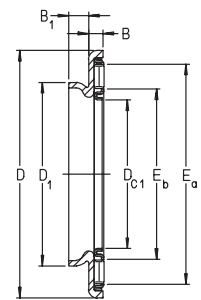
ASSEMBLY PART NUMBER	CAGE PART NUMBER	HOUSING WASHER PART NUMBER	SHAFT WASHER PART NUMBER
893 12 TN	K 893 12 TN	GS 893 12	WS 893 12
893 13 TN	K 893 13 TN	GS 893 13	WS 893 13
893 14 TN	K 893 14 TN	GS 893 14	WS 893 14
893 15 TN	K 893 15 TN	GS 893 15	WS 893 15
893 16 TN	K 893 16 TN	GS 893 16	WS 893 16
893 17	K 893 17	GS 893 17	WS 893 17
893 18	K 893 18	GS 893 18	WS 893 18
893 20 TN	K 893 20	GS 893 20	WS 893 20
893 22	K 893 22	GS 893 22	WS 893 22
893 24	K 893 24	GS 893 24	WS 893 24
893 26	K 893 26	GS 893 26	WS 893 26
893 28	K 893 28	GS 893 28	WS 893 28
893 30	K 893 30	GS 893 30	WS 893 30
893 32	K 893 32	GS 893 32	WS 893 32
893 34	K 893 34	GS 893 34	WS 893 34
893 36	K 893 36	GS 893 36	WS 893 36
893 38	K 893 38	GS 893 38	WS 893 38
893 40	K 893 40	GS 893 40	WS 893 40



Piloted Thrust Bearings

AXW SERIES

- Consisting of AXK axial needle roller cage and centering spigot on washer for piloting cage
- Speed limit shown is for oil lubrication



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
 For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

PART NUMBER	SHAFT D _{c1}	SHAFT D _{c1}	OD. D	OD. D	WIDTH B ₁	WIDTH B ₁	WEIGHT	WEIGHT	DYN. CAP. C	DYN. CAP. C	STAT. CAP. C ₀	STAT. CAP. C ₀
	inch	mm	inch	mm	inch	mm	lbs	g	lbf	kN	lbf	kN
AXW 10	0.394	10	1.063	27	0.126	3.2	.018	8.3	2,070	9.2	5,700	25.5
AXW 12	0.472	12	1.142	29	0.126	3.2	.020	9.1	2,230	9.9	6,500	29
AXW 15	0.591	15	1.221	31	0.126	3.2	.022	10	2,550	11.3	8,100	36
AXW 17	0.669	17	1.299	33	0.126	3.2	.024	11	2,700	11.9	8,900	39.5
AXW 20	0.787	20	1.496	38	0.126	3.2	.031	14	2,950	13.1	10,500	46.5
AXW 25	0.984	25	1.772	45	0.126	3.2	.044	20	3,300	14.7	13,000	58
AXW 30	1.181	30	1.969	50	0.126	3.2	.048	22	3,650	16.3	15,700	70
AXW 35	1.378	35	2.165	55	0.126	3.2	.060	27	4,000	17.8	18,200	81
AXW 40	1.575	40	2.480	63	0.165	4.2	.086	39	6,300	28	25,500	114
AXW 45	1.772	45	2.677	68	0.165	4.2	.095	43	6,700	30	29,000	128
AXW 50	1.969	50	2.874	73	0.165	4.2	.108	49	7,200	32	32,000	143

PART NUMBER	CENTER WASHER OD D ₁	CENTER WASHER OD D ₁	CENTER WASHER WIDTH B	CENTER WASHER WIDTH B	SPEED LIMIT	INTERNAL RACEWAY DIA. E _b	INTERNAL RACEWAY DIA. E _b	EXTERNAL RACEWAY DIA. E _a	EXTERNAL RACEWAY DIA. E _a
	inch	mm	inch	mm	rpm	inch	mm	inch	mm
AXW 10	0.551	14	0.118	3	16000	0.472	12	0.906	23
AXW 12	0.630	16	0.118	3	14000	0.551	14	0.984	25
AXW 15	0.827	21	0.138	3.5	13000	0.669	17	1.063	27
AXW 17	0.906	23	0.138	3.5	12000	0.748	19	1.142	29
AXW 20	1.024	26	0.138	3.5	10000	0.866	22	1.339	34
AXW 25	1.260	32	0.158	4	8000	1.142	29	1.614	41
AXW 30	1.457	37	0.158	4	7000	1.339	34	1.811	46
AXW 35	1.654	42	0.158	4	6500	1.535	39	2.008	51
AXW 40	1.850	47	0.158	4	5500	1.772	45	2.284	58
AXW 45	2.047	52	0.158	4	5000	1.969	50	2.480	63
AXW 50	2.284	58	0.177	4.5	4700	2.165	55	2.677	68

