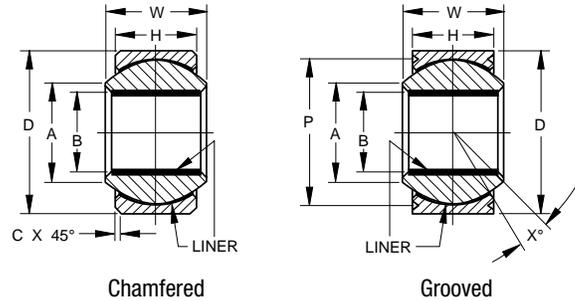


LIGHT WEIGHT TITANIUM SELF-LUBRICATED SPHERICAL BEARING, WIDE

- Wide series, self-lubricated, lined bore
- High temperature — low wear
-65°F to +325°F (-53.9°C to +162.8°C)
- Material
Outer ring: Titanium 6Al-4V
Inner ring: Titanium 6Al-4V, proprietary coating
Liner: Fibriloid® qualified to AS81820



SPHERICAL BEARINGS

SPECIFICATIONS AND ORDERING INFORMATION

DIMENSIONS — TOLERANCES

Bearing Number	Bearing Number	B Ref.		D		H		W		A		C ⁽¹⁾		P ⁽²⁾ Groove Pitch Diameter		X° Ref.
		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	
Chamfered Part Numbers	Grooved Part Numbers	+.0000, -.0010 +.000, -.025		+.0000, -.0005 +.000, -.013		±.005 ±.13		+.000, -.002 +.00, -.05		Min.		+.010, -.000 +.25, -.00		+.000 in., -.008 in. +.00 mm, -.20mm		
03-852-03	03-853-03	.1910	4.851	.6250	15.875	.327	8.31	.437	11.10	.300	7.62	.015	.38	.563	14.30	15
03-852-04	03-853-04	.2510	6.375	.6250	15.875	.327	8.31	.437	11.10	.300	7.62	.015	.38	.563	14.30	15
03-852-05	03-853-05	.3135	7.963	.6875	17.462	.317	8.05	.437	11.10	.360	9.14	.015	.38	.625	15.88	14
03-852-06	03-853-06	.3760	9.550	.8125	20.638	.406	10.31	.500	12.70	.466	11.84	.020	.51	.712	18.08	8
03-852-07	03-853-07	.4385	11.138	.9375	23.812	.442	11.23	.562	14.27	.537	13.64	.020	.51	.837	21.26	10
03-852-08	03-853-08	.5010	12.725	1.0000	25.400	.505	12.83	.625	15.88	.607	15.42	.020	.51	.900	22.86	9
03-852-09	03-853-09	.5635	14.313	1.1250	28.575	.536	13.61	.687	17.45	.721	18.31	.020	.51	1.025	26.04	10
03-852-10	03-853-10	.6260	15.900	1.1875	30.162	.567	14.40	.750	19.05	.747	18.97	.020	.51	1.087	27.61	12
03-852-12	03-853-12	.7510	19.075	1.3750	34.925	.630	16.00	.875	22.22	.845	21.46	.030	.76	1.251	31.78	13
03-852-14	03-853-14	.8760	22.250	1.6250	41.275	.755	19.18	.875	22.22	.995	25.27	.030	.76	1.501	38.13	6
03-852-16	03-853-16	1.0010	25.425	2.1250	53.975	1.005	25.53	1.375	34.92	1.269	32.33	.030	.76	2.001	50.83	12

⁽¹⁾Chamfered Type only.

⁽²⁾Grooved Type only. See page 17 for groove dimensions.

LOAD RATINGS

Bearing Number	Bearing Number	Oscillating Radial Load Rating ⁽¹⁾		Radial Limit Load Rating ⁽¹⁾		No Load Rotational Breakaway Torque				Weight Approx.	
		lbs.	N	lbs.	N	Standard		"K" Type		lbs.	kg
03-852-03	03-853-03	2500	11100	2500	11100	1-5	.11-.57	0-0.5	0-.06	0.017	0.008
03-852-04	03-853-04	3600	16000	5500	24400	1-5	.11-.57	0-0.5	0-.06	0.012	0.005
03-852-05	03-853-05	4450	19800	9300	41400	1-15	.11-1.7	0-1	0-.11	0.017	0.008
03-852-06	03-853-06	6200	27600	13000	58000	1-15	.11-1.7	0-1	0-.11	0.029	0.013
03-852-07	03-853-07	8250	36700	17300	77000	1-15	.11-1.7	0-1	0-.11	0.040	0.018
03-852-08	03-853-08	10600	47200	21400	95200	1-15	.11-1.7	0-1	0-.11	0.052	0.023
03-852-09	03-853-09	13200	59000	26600	118300	1-15	.11-1.7	0-1	0-.11	0.069	0.031
03-852-10	03-853-10	16150	72000	29000	129000	1-15	.11-1.7	0-1	0-.11	0.081	0.036
03-852-12	03-853-12	24800	111000	37000	165000	1-15	.11-1.7	0-1	0-.11	0.121	0.055
03-852-14	03-853-14	26750	119000	56000	249100	1-25	.11-2.8	0-2	0-.23	0.191	0.086
03-852-16	03-853-16	49300	220000	103000	458200	1-25	.11-2.8	0-2	0-.23	0.509	0.229

⁽¹⁾Load ratings based on AS81820.