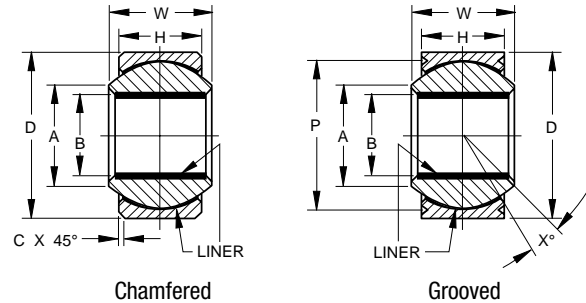


## M81820/2 & M81820/3 SELF-LUBRICATED SPHERICAL BEARING, LINED BORE, WIDE

- AS81820/2 & AS81820/3 • AS81820 (formerly MIL-B-81820)
- 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: CRES 17-4PH, AMS 5643, HRC 28 min.  
Inner ring: CRES PH13-8Mo, AMS 5629, HRC 43 min.  
Liner: Fibriloid® or “E” Uniflon® qualified to AS81820



SPHERICAL BEARINGS

## SPECIFICATIONS AND ORDERING INFORMATION

### DIMENSIONS — TOLERANCES

03-834 WEE M81820/2 Chamfered Type	B Ref.		D		H		W		A		C <sup>(1)</sup>		p <sup>(2)</sup> Groove Pitch Diameter		X° Ref.
	+0.000, -0.010 +0.00, -0.25		+0.000, -0.005 -0.00, -0.13		±.005 ±.13		+0.00, -0.02 +0.00, -0.05		Min.		+0.010, -0.000 +0.25, -0.00		+0.000 in., -0.008 in. +0.00 mm, -0.20mm		
03-836 WEEG M81820/3 Grooved Type	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	
-05	.3135	7.963	.6875	17.462	.317	8.05	.437	11.10	.360	9.14	.015	0.38	.625	15.88	14
-06	.3760	9.550	.8125	20.638	.406	10.31	.500	12.70	.466	11.84	.020	0.51	.712	18.08	8
-07	.4385	11.138	.9375	23.813	.442	11.23	.562	14.27	.537	13.64	.020	0.51	.837	21.26	10
-07A <sup>(2)</sup>	.4385	11.138	.9062	23.017	.442	11.23	.562	14.27	.537	13.64	.020	0.51	.806	20.47	10
-08	.5010	12.725	1.0000	25.400	.505	12.83	.625	15.88	.607	15.42	.020	0.51	.900	22.86	9
-09	.5635	14.313	1.1250	28.575	.536	13.61	.687	17.45	.721	18.31	.020	0.51	1.025	26.04	10
-10	.6260	15.900	1.1875	30.162	.567	14.40	.750	19.05	.747	18.97	.020	0.51	1.087	27.61	12
-12	.7510	19.075	1.3750	34.925	.630	16.00	.875	22.22	.845	21.46	.030	0.76	1.251	31.78	13
-14	.8760	22.250	1.6250	41.275	.755	19.18	.875	22.22	.995	25.27	.030	0.76	1.501	38.13	6
-16	1.0010	25.425	2.1250	53.975	1.005	25.53	1.375	34.92	1.269	32.33	.030	0.76	2.001	50.83	12

<sup>(1)</sup>Chamfered Type only. <sup>(2)</sup>Grooved Type only. See page 17 for groove dimensions.

### LOAD RATINGS

03-834 WEE M81820/2 Chamfered Type	Oscillating Radial Load Rating <sup>(1)</sup>		Radial Limit Load Rating <sup>(1)</sup>		Axial Limit Load Rating <sup>(1)</sup>		No Load Rotational Breakaway Torque				Weight Max.	
	lbf.	N	lbf.	N	lbf.	N	Standard		“K” Type		lbs.	kg
03-836 WEEG M81820/3 Grooved Type	lbf.	N	lbf.	N	lbf.	N	in.-lbs.	N-m	in.-lbs.	N-m		
-05	4450	19800	9300	41400	1640	7350	1-15	.11-1.7	0-1	0-11	0.035	0.016
-06	6200	27600	13000	58000	2630	11600	1-15	.11-1.7	0-1	0-11	0.060	0.027
-07	8250	36700	17300	77000	3650	16300	1-15	.11-1.7	0-1	0-11	0.080	0.036
-07A <sup>(2)</sup>	8250	36700	17300	77000	3650	16300	1-15	.11-1.7	0-1	0-11	0.080	0.036
-08	10600	47200	21400	95200	4970	22000	1-15	.11-1.7	0-1	0-11	0.100	0.045
-09	13200	59000	26600	118300	5370	24000	1-15	.11-1.7	0-1	0-11	0.135	0.061
-10	16150	72000	29000	129000	6130	27500	1-15	.11-1.7	0-1	0-11	0.160	0.072
-12	24800	111000	37000	165000	7730	34500	1-15	.11-1.7	0-1	0-11	0.240	0.108
-14	26750	119000	56000	249100	10800	48000	1-25	.11-2.8	0-2	0-23	0.350	0.158
-16	49300	220000	103000	458200	19300	86500	1-25	.11-2.8	0-2	0-23	0.970	0.437

<sup>(1)</sup>Load ratings based on AS81820.

<sup>(2)</sup>Grooved Type only.