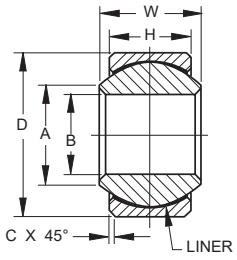
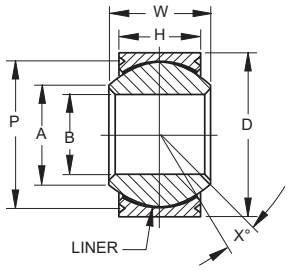
CRYOGENIC RATED SELF-LUBRICATED SPHERICAL BEARING, NARROW

- Narrow series, self-lubricated
- Low temperature — low wear
  -320°F to +450°F (-195.6°C to +232.2°C)
- Material
  Outer ring: Inconel 718, HRC 37 min.
  Inner ring: Inconel 718, HRC 37 min.
  Liner: Fibriloid CR® meets requirements of AS81820 Type A



Chamfered



Grooved

SPECIFICATIONS AND ORDERING INFORMATION

DIMENSIONS — TOLERANCES

03-881 Chamfered 03-885 Grooved Dash No.	B +.0000, -.0005 +.000, -.013		D +.0000, -.0005 +.000, -.013		H ±.005 ±.13		W +.000, -.002 +.00, -.05		A Min.		C(1) +.010, -.000 +.25, -.00		P(2) Groove Pitch Diameter +.000 in., -.008 in. +.00 mm, -.20mm		X° Ref.
Chamfered/Grooved Part Numbers	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	
-03	.1900	4.826	.5625	14.288	.218	5.54	.281	7.14	.293	7.44	.010	.25	.500	12.70	10
-04	.2500	6.350	.6562	16.667	.250	6.35	.343	8.71	.364	9.25	.010	.25	.594	15.09	10
-05(1)	.3125	7.938	.7500	19.050	.281	7.14	.375	9.52	.419	10.64	.010	.25	.650	16.76	10
-05A(2)	.3125	7.938	.7500	19.050	.281	7.14	.375	9.52	.419	10.64	.010	.25	.660	16.76	10
-06	.3750	9.525	.8125	20.638	.312	7.92	.406	10.31	.475	12.06	.020	.51	.712	18.08	9
-07	.4375	11.112	.9062	23.017	.343	8.71	.437	11.10	.530	13.46	.020	.51	.806	20.47	8
-08	.5000	12.700	1.0000	25.400	.390	9.91	.500	12.70	.600	15.24	.020	.51	.876	22.25	8
-09	.5625	14.288	1.0937	27.780	.437	11.10	.562	14.27	.670	17.02	.020	.51	.970	24.64	8
-10	.6250	15.875	1.1875	30.162	.500	12.70	.625	15.88	.739	18.77	.020	.51	1.063	27.00	8
-12	.7500	19.050	1.4375	36.512	.593	15.06	.750	19.05	.920	23.37	.030	.76	1.313	33.35	8
-14	.8750	22.225	1.5625	39.688	.703	17.86	.875	22.22	.980	24.89	.030	.76	1.438	36.53	8
-16	1.0000	25.400	1.7500	44.450	.797	20.24	1.000	25.40	1.118	28.40	.030	.76	1.626	41.30	9

(1)Chamfered Type only. (2)Grooved Type only.

LOAD RATINGS

03-881 Chamfered 03-885 Grooved Dash No.	Oscillating Radial Load Rating(3)		Radial Limit Load Rating(3)		Axial Limit Load Rating(3)		No Load Rotational Breakaway Torque Standard		No Load Rotational Breakaway Torque "K" Type		Weight Approx. Ref.	
Chamfered/Grooved Part Numbers	lbf.	N	lbf.	N	lbf.	N	in.-lbs.	N-m	in.-lbs.	N-m	lbs.	kg
-03	1500	6700	3975	17600	150	670	.25-5	.03-.56	0-0.5	0-.06	.021	.010
-04	3320	14600	6040	27000	430	1900	.25-5	.03-.56	0-0.5	0-.06	.021	.010
-05(1)	5460	24500	8750	39000	700	3100	.25-8	.03-.90	0-1	0-.11	.032	.015
-05A(2)	5460	24500	8750	39000	700	3100	.25-8	.03-.90	0-1	0-.11	.032	.015
-06	6600	29000	10540	46500	1100	4900	.25-8	.03-.90	0-1	0-.11	.043	.019
-07	8050	36000	13200	58500	1400	6200	.25-8	.03-.90	0-1	0-.11	.053	.024
-08	10400	46500	17900	80000	2100	9300	.25-8	.03-.90	0-1	0-.11	.075	.034
-09	13000	58500	23200	104000	3680	16300	.25-8	.03-.90	0-1	0-.11	.096	.044
-10	16450	73500	30500	137000	4720	20800	.25-8	.03-.90	0-1	0-.11	.128	.058
-12	23600	104000	46400	208000	6750	30000	.25-8	.03-.90	0-1	0-.11	.224	.102
-14	30250	134000	62200	275000	9350	41500	.25-12	.03-1.4	0-2	0-.23	.288	.131
-16	38000	170000	82200	365000	12160	54000	.25-12	.03-1.4	0-2	0-.23	.416	.189

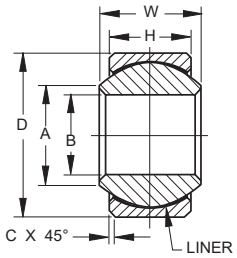
(1)Chamfered Type only. (2)Grooved Type only.

(3)Load ratings based on AS81820. -3 and -4 sizes are limited by pin bending.

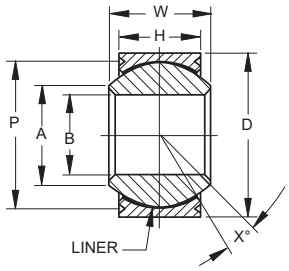
Bearing configuration	Part number designations for a 0.2500 in. bore, grooved spherical bearing
Base P/N (no options)	03-885-04
Low breakaway torque	03-885-04K
1st oversize O.D. (0.010 in.)	03-885-04T
2nd oversize O.D. (0.020 in.)	03-885-04U
PH13-8MO ball material	03-885-04C

CRYOGENIC RATED SELF-LUBRICATED SPHERICAL BEARING, WIDE

- Wide series, self-lubricated
- Low temperature — low wear
  -320°F to +450°F (-195.6°C to +232.2°C)
- Material
  Outer ring: Inconel 718, HRC 37 min.
  Inner ring: Inconel 718, HRC 37 min.
  Liner: Fibriloid CR® meets requirements of AS81820 Type A



Chamfered



Grooved

SPECIFICATIONS AND ORDERING INFORMATION

DIMENSIONS — TOLERANCES

03-882 Chamfered 03-884 Grooved Dash No.	B +.0000, -.0005 +.000, -.013		D +.0000, -.0005 +.000, -.013		H ±.005 ±.13		W +.000, -.002 +.00, -.05		A Min.		C(1) +.010, -.000 +.25, -.00		P(2) Groove Pitch Diameter +.000 in., -.008 in. +.00 mm, -.20mm		X° Ref.
Chamfered/Grooved Part Numbers	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	
-03	.1900	4.826	.6250	15.875	.327	8.31	.437	11.10	.300	7.62	.010	0.25	.563	14.30	15
-04	.2500	6.350	.6250	15.875	.327	8.31	.437	11.10	.300	7.62	.010	0.25	.563	14.30	15
-05	.3125	7.938	.6875	17.462	.317	8.05	.437	11.10	.360	9.14	.010	0.25	.625	15.88	14
-06	.3750	9.525	.8125	20.638	.406	10.31	.500	12.70	.466	11.84	.020	0.51	.712	18.08	8
-07A(2)	.4375	11.112	.9062	23.017	.442	11.23	.562	14.27	.537	13.64	.020	0.51	.806	20.47	10
-07	.4375	11.112	.9375	23.812	.442	11.23	.562	14.27	.537	13.64	.020	0.51	.837	21.26	10
-08	.5000	12.700	1.0000	25.400	.505	12.83	.625	15.88	.607	15.42	.020	0.51	.900	22.86	9
-09	.5625	14.288	1.1250	28.575	.536	13.61	.687	17.45	.721	18.31	.020	0.51	1.025	26.04	10
-10	.6250	15.875	1.1875	30.162	.567	14.40	.750	19.05	.747	18.97	.020	0.51	1.087	27.61	12
-12	.7500	19.050	1.3750	34.925	.630	16.00	.875	22.22	.845	21.46	.030	0.76	1.251	31.78	13
-14	.8750	22.225	1.6250	41.275	.755	19.18	.875	22.22	.995	25.27	.030	0.76	1.501	38.13	6
-16	1.0000	25.400	2.1250	53.975	1.005	25.53	1.375	34.92	1.269	32.23	.030	0.76	2.001	50.83	12

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

LOAD RATINGS

03-882 Chamfered 03-884 Grooved Dash No.	Oscillating Radial Load Rating(3)		Radial Limit Load Rating(3)		Axial Limit Load Rating(3)		No Load Rotational Breakaway Torque Standard		"K" Type		Weight Approx. Ref.	
Chamfered/Grooved Part Numbers	lbf.	N	lbf.	N	lbf.	N	in.-lbs.	N-m	in.-lbs.	N-m	lbs.	kg
-03	4900	21600	2500	11100	1770	7800	.25-5	.03-.56	0.05	0-.06	.033	.015
-04	4900	21600	5500	24400	1770	7800	.25-5	.03-.56	0.05	0-.06	.033	.015
-05	6050	27000	9400	41800	1640	7350	.25-8	.03-.90	0.10	0-.11	.037	.017
-06	8310	36500	13700	60900	2630	11600	.25-8	.03-.90	0.10	0-.11	.064	.029
-07A(2)	11750	52000	19700	87600	3650	16300	.25-8	.03-.90	0.10	0-.11	.085	.039
-07	11750	52000	20700	92000	3650	16300	.25-8	.03-.90	0.10	0-.11	.085	.039
-08	14950	65500	21400	95000	4970	22000	.25-8	.03-.90	0.10	0-.11	.107	.048
-09	18100	80000	26600	118000	5370	24000	.25-8	.03-.90	0.10	0-.11	.144	.065
-10	20250	90000	29000	128500	6130	27500	.25-8	.03-.90	0.10	0-.11	.171	.077
-12	26200	116000	37000	164500	7730	34500	.25-8	.03-.90	0.10	0-.11	.256	.116
-14	33600	150000	65200	290000	10800	48000	.25-12	.03-1.4	0.20	0-.23	.373	.169
-16	56250	250000	104000	462500	19300	86500	.25-12	.03-1.4	0.20	0-.23	1.035	.469

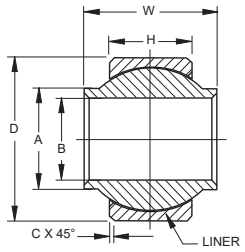
(1)Chamfered Type only. (2)Grooved Type only.

(3)Load ratings based on AS81820. -3 and -4 sizes are limited by pin bending.

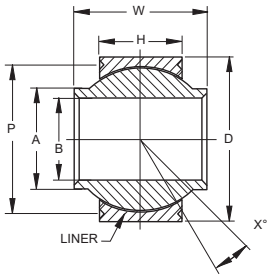
Bearing configuration	Part number designations for a 0.2500 in. bore, grooved spherical bearing
Base P/N (no options)	03-884-04
Low breakaway torque	03-884-04K
1st oversize O.D. (0.010 in.)	03-884-04T
2nd oversize O.D. (0.020 in.)	03-884-04U
PH13-8MO ball material	03-884-04C

HIGH MISALIGNMENT SELF-LUBRICATED SPHERICAL BEARING

- High Misalignment series, self-lubricated
- Low temperature — low wear
  - 320°F to +450°F (-195.6°C to +232.2°C)
- Material
  Outer ring: Inconel 718, HRC 37 min.
  Inner ring: Inconel 718, HRC 37 min.
  Liner: Fibriloid CR® meets requirements of AS81820 Type A



Chamfered



Grooved

SPECIFICATIONS AND ORDERING INFORMATION

DIMENSIONS — TOLERANCES

Chamfered 03-888 / Grooved 03-887	B +0.000, -0.0005 +0.000, -0.013		D +0.000, -0.0005 +0.000, -0.013		H ±0.005 ±0.13		W +0.000, -0.002 +0.00, -0.05		A Ref.		C(1) Chamfer +0.010, -0.000 +0.25, -0.00		P(2) Grooved ±0.005 ±0.13		X° Ref.
	in.	mm	in.	mm	in.	m	in.	mm	in.	mm	in.	mm	in.	mm	
03	0.1900	4.826	0.5625	14.288	0.210	5.33	0.500	12.70	0.319	8.10	0.010	0.25	0.493	12.52	15
04	0.2500	6.350	0.7400	18.796	0.255	6.48	0.593	15.06	0.390	9.91	0.010	0.25	0.670	17.02	24
05	0.3125	7.938	0.6875	17.463	0.255	6.48	0.625	15.88	0.418	10.62	0.010	0.25	0.618	15.70	20
06	0.3750	9.525	0.9060	23.012	0.345	8.76	0.813	20.65	0.512	13.00	0.020	0.51	0.836	21.23	23
07	0.4375	11.113	1.0000	25.400	0.345	8.76	0.875	22.23	0.618	15.70	0.020	0.51	0.930	23.62	22
08	0.5000	12.700	1.1250	28.575	0.401	10.19	0.937	23.80	0.730	18.54	0.020	0.51	1.055	26.80	20
10	0.6250	15.875	1.3750	34.925	0.567	14.40	1.200	30.48	0.856	21.74	0.020	0.51	1.275	32.39	20
12	0.7500	19.050	1.5625	39.688	0.620	15.75	1.280	32.51	0.970	24.64	0.030	0.76	1.438	36.53	18
14	0.8750	22.225	1.7500	44.450	0.625	15.88	1.400	35.56	1.140	28.96	0.030	0.76	1.625	41.28	18
16	1.0000	25.400	2.1250	53.975	0.835	21.21	1.875	47.62	1.278	32.46	0.030	0.76	2.000	50.80	21
18	1.1250	28.575	2.3125	58.738	0.942	23.93	1.875	47.63	1.400	35.56	0.030	0.76	2.188	55.58	20
20	1.2500	31.750	2.5000	63.500	1.005	25.53	1.875	47.63	1.523	38.68	0.030	0.76	2.375	60.33	21
22	1.3750	34.925	2.7500	69.850	1.097	27.86	2.125	53.98	1.670	42.42	0.030	0.76	2.625	66.68	22
24	1.5000	38.100	3.0000	76.200	1.175	29.85	2.250	57.15	1.800	45.72	0.030	0.76	2.875	73.03	21

(1)Chamfered Type only. (2)Grooved Type only.

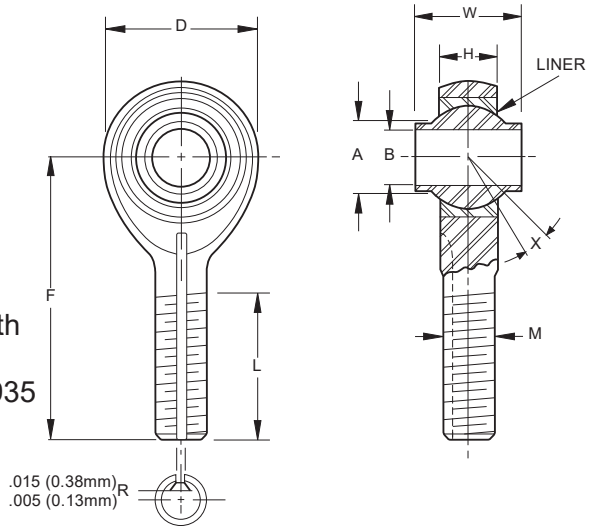
LOAD RATINGS

Chamfered 03-888	Grooved 03-887	Oscillating Radial Load Rating(1)		Radial Limit Load Rating(1)		No Load Rational Starting Torque		Weight Approx. Ref.	
		lbf.	N	lbf.	N	in.-lbs.	N-m	lbs.	kg
03	03	3700	16500	6400	28500	.25-5	.03-.56	0.021	0.010
04	04	5300	23600	10700	47600	.25-5	.03-.56	0.032	0.015
05	05	5300	23600	10700	47600	1-15	.11-1.7	0.043	0.019
06	06	9500	42300	19100	85000	1-15	.11-1.7	0.075	0.034
07	07	10800	48000	21700	96500	1-15	.11-1.7	0.107	0.048
08	08	14400	64100	28800	128100	1-15	.11-1.7	0.171	0.077
10	10	25100	111700	50600	225100	1-15	.11-1.7	0.267	0.121
12	12	30200	134300	60500	269100	1-15	.11-1.7	0.341	0.155
14	14	34300	152600	68600	305100	1-24	.11-2.7	0.459	0.208
16	16	55600	247300	111200	494600	1-24	.11-2.7	0.885	0.402
18	18	68900	306500	138100	614300	1-24	.11-2.7	1.173	0.532
20	20	80300	357200	160600	714400	1-24	.11-2.7	1.408	0.639
22	22	97500	433700	195300	868700	1-24	.11-2.7	1.920	0.871
24	24	111700	496900	223400	993700	1.24	.11-2.7	2.368	1.074

(1)Load ratings based on AS81820 except limitations due to pin bending.

CRYOGENIC RATED SELF-LUBRICATED ROD END BEARING, HIGH MISALIGNMENT

- High misalignment male type, rod end
- Low temperature — low wear
  -320°F to +450°F (-195.6°C to +232.2°C)
- Material: Bearing inner ring: Inconel 718, HRC 37 MIN
  Bearing outer ring: Inconel 718, HRC 37 MIN
  Rod end housing: Inconel 718, HRC 37 MIN, passivated
- Liner: Fibriloid CR® meets requirements of AS81820 Type A
- Rolled threads conform to UNJF-3A per AS8879
- For rod ends with left hand thread replace "01-" designation with "11-" depending on part number ordered. Example: see below
- For rod ends with slotted shank or "keyway" add "K" per AS81935 Example: see below.



SPECIFICATIONS AND ORDERING INFORMATION

DIMENSIONS — TOLERANCES

PART NUMBERS 01-887 Dash No.	B +.0000, -.0005 +0.00, -0.013		D ±0.010 ±0.25		L ±0.060 ±1.52		F ±0.010 ±0.25		W +.000, -.005 +0.00, -.13		H ±0.002 ±0.05		A REF.		M UNF-3A	X° REF.
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm		
-03	.1900	4.826	.781	19.84	1.000	25.40	1.562	39.67	.560	14.22	.337	8.56	.301	7.65	5/16-24	16
-03A	.1900	4.826	.750	19.05	1.000	25.40	1.500	38.10	.500	12.70	.220	5.59	.319	8.10	5/16-24	15
-04	.2500	6.350	1.000	25.40	1.250	31.75	1.938	49.23	.593	15.06	.265	6.73	.390	9.91	5/16-24	23
-05	.3125	7.938	1.125	25.58	1.375	34.93	2.125	53.98	.813	20.65	.355	8.89	.512	13.00	5/16-24	23
-05A	.3125	7.938	.875	22.23	1.062	26.97	1.875	47.63	.625	15.88	.265	6.73	.418	10.62	5/16-24	16
-06	.3750	9.525	1.125	28.58	1.375	34.93	2.125	53.98	.813	20.65	.355	8.89	.512	13.00	3/8-24	23
-07	.4375	11.112	1.312	33.32	1.500	38.10	2.437	61.90	.875	22.23	.355	8.89	.618	15.70	7/16-20	22
-08	.5000	12.700	1.500	38.10	1.625	41.28	2.625	66.68	.937	23.80	.411	10.44	.730	18.54	1/2-20	20
-10	.6250	15.875	1.750	44.45	1.750	44.45	2.875	73.03	1.200	30.48	.577	14.66	.856	21.74	5/8-18	20
-12	.7500	19.050	2.000	50.80	1.875	47.63	3.375	85.73	1.280	32.51	.630	16.00	.970	24.64	3/4-16	18
-14	.8750	22.225	2.200	55.88	2.000	50.80	3.750	95.25	1.400	35.56	.635	16.13	1.140	28.96	7/8-14	18
-16	1.0000	25.400	2.725	69.85	2.125	53.98	4.125	104.78	1.875	47.63	.845	21.46	1.278	32.46	1 1/4-12	21
-20	1.2500	31.750	3.125	79.38	2.875	73.03	5.000	127.00	1.875	47.63	1.015	25.78	1.523	38.68	1 1/4-12	21

LOAD RATINGS

PART NUMBERS 01-887 Dash No.	Static Radial Limit Load		Weight Approx. Ref.		No Load Rotational Breakaway Torque	
	lbf.	N	lbs.	kg	in.-lbs.	Nm
-03	4060(1)	18059	.085	0.039	0.5 - 6	0.06 - 0.68
-03A	4060(1)	18059	.064	0.029	0.5 - 6	0.06 - 0.68
-04	7040(1)	31314	.117	0.053	1 - 15	0.11 - 1.70
-05	8260	36874	.192	0.087	1 - 15	0.11 - 1.70
-05A	5300	23574	.107	0.048	1 - 15	0.11 - 1.70
-06	8260	36740	.181	0.082	1 - 15	0.11 - 1.70
-07	12420	55244	.277	0.126	1 - 15	0.11 - 1.70
-08	17430	77529	.427	0.194	1 - 15	0.11 - 1.70
-10	23620	105062	.672	0.305	1 - 15	0.11 - 1.70
-12	30550	135886	.928	0.421	1 - 24	0.11 - 2.71
-14	31970	142203	1.077	0.489	1 - 24	0.11 - 2.71
-16	59510	264700	2.464	1.118	1 - 24	0.11 - 2.71
-20	70060	313869	3.360	1.524	1 - 24	0.11 - 2.71

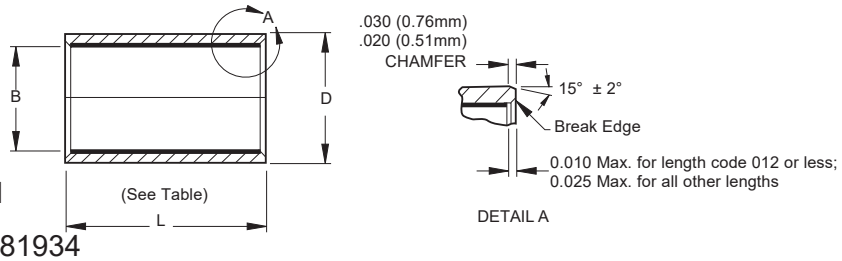
(1) Based on pin limitation.

Notes: Available with lubricators, solid film lubricant and lubrication holes and groove in ball. Please see engineering section or contact RBC Aerospace Bearings.

Bearing configuration	Part number designations for a 0.2500 in. bore rod end
Base P/N (no options)	01-887-04
Keyway on threads	01-887-04K
Left hand thread	11-887-04

CRYOGENIC RATED SELF-LUBRICATED STRAIGHT JOURNAL BEARING

- Journal type
- Low temperature — low wear
  -320°F to +450°F (-195.6°C to +232.2°C)
- Material and notes: Inconel 718, HRC 37 MIN
- Liner: Fibriloid CR® meets requirements of AS81934



SPECIFICATIONS AND ORDERING INFORMATION

DIMENSIONS — TOLERANCES

Part Numbers 06-880 Dash No.	Nominal Size		B +.000, - .0010 +.000, -.25		D +.000, - .0005 +.000, -.013		Weight L = 1.000 in. L = 25.4 mm Approx. Ref.	
	in.	mm	in.	mm	in.	mm	lbs.-in	kg-mm
-04	1/4	6.350	.2515	6.388	.3760	9.550	.006	.003
-05	5/16	7.938	.3140	7.976	.4386	11.140	.009	.004
-06	3/8	9.525	.3765	9.563	.5012	12.730	.010	.004
-07	7/16	11.112	.4390	11.151	.5638	14.321	.011	.005
-08	1/2	12.700	.5015	12.738	.6265	15.913	.012	.005
-09	9/16	14.288	.5640	14.326	.6892	17.506	.014	.006
-10	5/8	15.875	.6265	15.913	.8142	20.681	.023	.011
-11	11/16	17.462	.6890	17.501	.8767	22.268	.025	.011
-12	3/4	19.050	.7515	19.088	.9393	23.858	.027	.012
-14	7/8	22.225	.8765	22.263	1.0645	27.038	.031	.014
-16	1	25.400	1.0015	25.438	1.1898	38.221	.035	.016
-18	1 1/8	28.575	1.1265	28.613	1.3148	33.396	.039	.018
-20	1 1/4	31.750	1.2515	31.788	1.4398	38.571	.043	.019
-22	1 3/8	34.925	1.3765	34.963	1.5648	39.746	.047	.021
-24	1 1/2	38.100	1.5015	38.138	1.7523	44.508	.069	.031
-26	1 5/8	41.275	1.6265	41.313	1.8773	47.683	.075	.034
-28	1 3/4	44.450	1.7515	44.488	2.0023	50.858	.080	.036
-32	2	50.800	2.0015	50.838	2.2523	57.208	.091	.041

Add length designation in 1/32 in. increments. (See below.) †Add length designation.

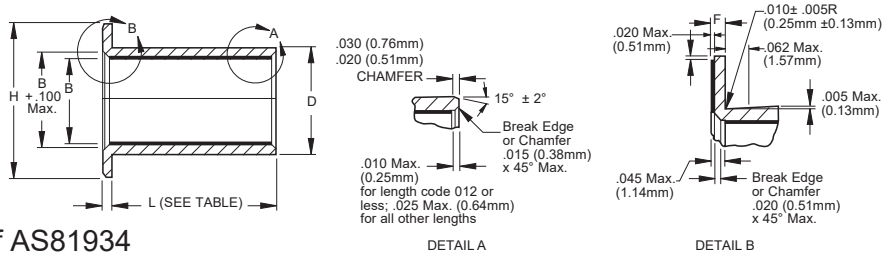
LENGTH DESIGNATORS

Part Number	Length: + 000, -.010 in./ +00, -.25mm																										
06-880	1/4	9/32	5/16	11/32	3/8	7/16	1/2	9/16	5/8	11/16	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	2	2 1/8	2 1/4	2 3/8	2 1/2	2 3/4	3
Dash No.	6.35	7.14	7.94	8.73	9.52	11.11	12.70	14.29	15.88	17.46	19.05	22.22	25.40	28.58	31.75	34.92	38.10	41.28	44.45	47.62	50.80	53.98	57.15	60.32	63.50	69.85	76.20
-04	08	09	10	11	12	14																					
-05	08	09	10	11	12	14	16	18																			
-06	08	09	10	11	12	14	16	18	20	22																	
-07	08	09	10	11	12	14	16	18	20	22	24	28															
-08	08	09	10	11	12	14	16	18	20	22	24	28															
-09	08	09	10	11	12	14	16	18	20	22	24	28	32	36													
-10	08	09	10	11	12	14	16	18	20	22	24	28	32	36	40	44											
-11	08	09	10	11	12	14	16	18	20	22	24	28	32	36	40	44	48	52									
-12	08	09	10	11	12	14	16	18	20	22	24	28	32	36	40	44	48	52									
-14	08	09	10	11	12	14	16	18	20	22	24	28	32	36	40	44	48	52									
-16	08	09	10	11	12	14	16	18	20	22	24	28	32	36	40	44	48	52	56	60							
-18			10	11	12	14	16	18	20	22	24	28	32	36	40	44	48	52	56	60							
-20					12	14	16	18	20	22	24	28	32	36	40	44	48	52	56	60	64	68					
-22					12	14	16	18	20	22	24	28	32	36	40	44	48	52	56	60	64	68					
-24					12	14	16	18	20	22	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80	88	
-26							16	18	20	22	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80	88	96
-28							16	18	20	22	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80	88	96
-32							16	18	20	22	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80	88	96

Bearing configuration	Part number designations for a 0.250 in. bore and 0.250 in. long CRES journal bearing
Base P/N (no options)	06-880-04008
1st oversize O.D. (0.010 in.)	06-880-04008T

CRYOGENIC RATED SELF-LUBRICATED FLANGED JOURNAL BEARING

- Flanged journal type
- Low temperature — low wear
  -320°F to +450°F (-195.6°C to +232.2°C)
- Material: Inconel 718, HRC 37 MIN,
- Liner: Fibriloid CR® meets requirements of AS81934



SPECIFICATIONS AND ORDERING INFORMATION

DIMENSIONS — TOLERANCES

Part Numbers CRES 07-880 Dash No.	Nominal Size		B +.000, - .0010 +.000, -.25		D +.000, - .0005 +.000, -.013		F +.000, - .005 +.00, -.13		H +.000, - .020 +.00, -.51		Journal Weight L = 1.000 in. L = 25.4 mm Approx. Ref.		Flange Weight Approx. Ref.	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.-in	kg-mm	lbs.-in	kg-mm
-04	1/4	6.350	.2515	6.388	.3760	9.550	.0625	1.588	.750	19.05	.010	.004	.003	.001
-05	5/16	7.938	.3140	7.976	.4386	11.140	.0625	1.588	.812	20.62	.012	.005	.003	.001
-06	3/8	9.525	.3765	9.563	.5012	12.730	.0625	1.588	.875	22.22	.013	.006	.003	.001
-07	7/16	11.112	.4390	11.151	.5638	14.321	.0625	1.588	.937	23.80	.014	.006	.003	.001
-08	1/2	12.700	.5015	12.738	.6265	15.913	.0625	1.588	1.000	25.40	.016	.007	.004	.002
-09	9/16	14.288	.5640	14.326	.6892	17.506	.0625	1.588	1.125	28.58	.018	.008	.004	.002
-10	5/8	15.875	.6265	15.913	.8142	20.681	.0625	1.588	1.250	31.75	.029	.013	.005	.002
-11	11/16	17.462	.6890	17.501	.8767	22.268	.0625	1.588	1.375	34.92	.032	.015	.007	.003
-12	3/4	19.050	.7515	19.088	.9393	23.858	.0625	1.588	1.500	38.10	.036	.016	.010	.004
-14	7/8	22.225	.8765	22.263	1.0645	27.038	.0625	1.588	1.625	41.28	.041	.018	.010	.004
-16	1	25.400	1.0015	25.438	1.1898	30.221	.0625	1.588	1.750	44.45	.046	.021	.011	.005
-18	1 1/8	28.575	1.1265	28.613	1.3148	33.396	.0937	2.380	1.875	47.62	.054	.025	.015	.007
-20	1 1/4	31.750	1.2515	31.788	1.4398	36.571	.0937	2.380	2.000	50.80	.062	.028	.019	.009
-22	1 3/8	34.925	1.3765	34.963	1.5648	39.746	.0937	2.380	2.125	53.98	.067	.030	.020	.009
-24	1 1/2	38.100	1.5015	38.138	1.7523	44.508	.0937	2.380	2.250	57.15	.090	.041	.019	.009
-26	1 5/8	41.275	1.6265	41.313	1.8773	47.683	.0937	2.380	2.375	60.32	.096	.044	.021	.010
-28	1 3/4	44.450	1.7515	44.488	2.0023	50.858	.0937	2.380	2.500	63.50	.105	.047	.025	.011
-32	2	50.800	2.0015	50.838	2.2523	57.208	.0937	2.380	2.750	69.85	.118	.054	.028	.013

†Add length designation. Add length designation in 1/32 in. increments. (see below)

LENGTH DESIGNATORS

Part Number	Length: + 000, -.010 in./ +00, -.25mm																										
07-880	1/4	9/32	5/16	11/32	3/8	7/16	1/2	9/16	5/8	11/16	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	2	2 1/8	2 1/4	2 3/8	2 1/2	2 3/4	3
Dash No.	6.35	7.14	7.94	8.73	9.52	11.11	12.70	14.29	15.88	17.46	19.05	22.22	25.40	28.58	31.75	34.92	38.10	41.28	44.45	47.62	50.80	53.98	57.15	60.32	63.50	69.85	76.20
04	08	09	10	11	12	14																					
-05	08	09	10	11	12	14	16	18																			
-06	08	09	10	11	12	14	16	18	20	22																	
-07	08	09	10	11	12	14	16	18	20	22	24	28															
-08	08	09	10	11	12	14	16	18	20	22	24	28															
-09	08	09	10	11	12	14	16	18	20	22	24	28	32	36													
-10	08	09	10	11	12	14	16	18	20	22	24	28	32	36	40	44											
-11	08	09	10	11	12	14	16	18	20	22	24	28	32	36	40	44	48	52									
-12	08	09	10	11	12	14	16	18	20	22	24	28	32	38	40	44	48	52									
-14	08	09	10	11	12	14	16	18	20	22	24	28	32	36	40	44	48	52									
-16	08	09	10	11	12	14	16	18	20	22	24	28	32	36	40	44	48	52	56	60							
-18			10	11	12	14	16	18	20	22	24	28	32	36	40	44	48	52	56	60							
-20					12	14	16	18	20	22	24	28	32	36	40	44	48	52	56	60	64	68					
-22					12	14	16	18	20	22	24	28	32	36	40	44	48	52	56	60	64	68					
-24					12	14	16	18	20	22	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80	88	
-26							16	18	20	22	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80	88	96
-28							16	18	20	22	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80	88	96
-32							16	18	20	22	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80	88	96

Bearing configuration	Part number designations for a 0.250 in. bore and 0.250 in. long CRES journal bearing
Base P/N (no options)	07-880-04008
1st oversize O.D. (0.010 in.)	07-880-04008T
2nd oversize O.D. (0.020 in.)	07-880-04008U