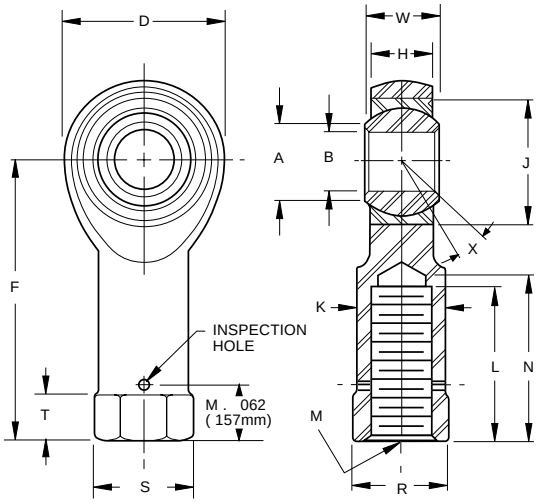
CRES METAL-TO-METAL ROD END BEARINGS

- Female type, rod end
- High temperature — low wear
  -65°F to +325°F (-53.9°C to +162.8°C)
- Material: Bearing inner ring: CRES 440C, HRC 55-62
  Bearing outer ring: CRES 17-4PH, HRC 28-37
  Rod end housing: CRES 17-4PH, HRC 39-42, passivated
- Threads conform to UNJF-3B per MIL-S-8879. For left hand thread add “L” or “1” depending on part number ordered
  Example: see below
- For rod end with keyway in end of shank add “K” or “1”
  Example: see below



SPECIFICATIONS AND ORDERING INFORMATION

DIMENSIONS — TOLERANCES

PART NUMBERS FSSxx Dash No.	B +0.000, -.0005 +0.00, -.013		D ±010 +.25		L Min.		F ±010 +.25		K ±010 +.25		W +.000, -.002 +.00, -.05		H ±005 +.13		A Min.		J Max.		N Max.		S(1) Ref.		T +.010, -.062 +.25, -1.57		R +.002, -.010 +.05, -.25		M UNJF-3B PER AS8879	X° Min.
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm		
03	.1900	4.826	.806	20.47	.750	19.05	1.375	34.92	.422	10.72	.437	11.10	.337	8.56	.30	7.6	.6250	15.875	.875	22.22	.500	12.70	.188	4.78	.437	11.10	5/16-24	15
04	.2500	6.350	.806	20.47	.750	19.05	1.469	37.31	.422	10.72	.437	11.10	.337	8.56	.30	7.6	.6250	15.875	.875	22.22	.500	12.70	.188	4.78	.437	11.10	5/16-24	15
05	.3125	7.938	.900	22.86	.875	22.22	1.625	41.28	.485	12.32	.437	11.10	.327	8.31	.36	9.1	.6875	17.462	1.000	25.40	.580	14.73	.250	6.35	.500	12.70	3/8-24	14
06	.3750	9.525	1.025	26.04	1.000	25.40	1.812	46.02	.547	13.89	.500	12.70	.416	10.57	.47	11.9	.8125	20.638	1.125	28.58	.660	16.76	.250	6.35	.562	14.27	3/16-24	8
07	.4375	11.112	1.150	29.21	1.125	28.58	2.000	50.80	.610	15.49	.562	14.27	.452	11.48	.54	13.7	.9062	23.017	1.250	31.75	.720	18.29	.250	6.35	.625	15.88	7/16-20	10
08	.5000	12.700	1.337	33.96	1.250	31.75	2.250	57.15	.735	18.67	.625	15.88	.515	13.08	.61	15.5	1.0000	25.400	1.375	34.92	.880	22.35	.250	6.35	.750	19.05	1/2-20	9
10	.6250	15.875	1.525	38.74	1.375	34.92	2.500	63.50	.860	21.84	.750	19.05	.577	14.66	.75	19.1	1.1875	30.162	1.500	38.10	1.020	25.91	.375	9.52	.875	22.22	5/8-18	12
12	.7500	19.050	1.775	45.09	1.625	41.28	2.875	73.03	.985	25.02	.875	22.23	.640	16.26	.85	21.6	1.3750	34.925	1.750	44.45	1.160	29.46	.375	9.53	1.000	25.40	3/4 - 16	13
14	.8750	22.225	2.025	51.44	1.875	47.63	3.375	85.73	1.110	28.19	.875	22.23	.765	19.43	1.00	25.4	1.6250	41.275	2.062	52.37	1.300	33.02	.500	12.70	1.125	28.58	7/8 - 14	6
16	1.0000	25.400	2.775	70.49	2.125	53.98	4.125	104.78	1.688	42.88	1.375	34.93	1.015	25.78	1.27	32.3	2.1250	53.975	2.312	58.72	2.020	51.31	.563	14.30	1.750	44.45	1 1/4 - 12	12

(1)Measured across corners or diameter.

LOAD RATINGS

Part Number FSSxx Dash No.	Part Number 02-858 Dash No.	Static Radial Limit Load		Axial Proof Load		Approx. Weight		Maximum Radial Clearance	
		lbf.	N	lbf.	N	lbs.	kg	in.	mm
03	-03	4675(1)	20800	1000	4400	0.080	0.036	0.002	0.05
04	-04	6060	27000	1000	4400	0.084	0.038	0.002	0.05
05	-05	7300	32500	1100	4900	0.102	0.046	0.002	0.05
06	-06	8860	39400	1660	7400	0.161	0.073	0.002	0.05
07	-07	9560	42500	1850	8200	0.212	0.096	0.002	0.05
08	-08	18560	82600	2040	9100	0.325	0.147	0.002	0.05
10	-10	20600	91600	2430	10800	0.481	0.218	0.002	0.05
12	-12	27640	122900	2810	12500	0.673	0.305	0.002	0.05
14	-14	32150	143000	3320	14800	0.963	0.437	0.002	0.05
16	-16	72270	321500	4340	19300	2.717	1.232	0.002	0.05

(1)Based on pin limitation

Notes:

Ultimate Static Load — No fracture of rod ending housing or bearing will occur when the ultimate static load is applied in the bearing along th shank center line.

Axial Static Proof Load — Is the retention strength of the bearing within the eye of the rod end housing. No push out of the bearing cartridge will occur when the housing eye is supported and the axial proof load is applied to the face of insert bearing inner ring.

Fatigue Load — The rod end housing will withstand 50,000 cycles of full tension to 10% tension loading at speeds up to 2800 cpm. Load is applied in line with the rod end shank putting the eye in tension.

Bearing configuration	Part number designations for a 0.2500 in. bore rod end
Base P/N (no options)	FSSE04
Keyway on threads	FSSEK04
Left hand thread	FSSEL04