

Lovejoy / Sier-Bath Flanged Sleeve Gear Couplings

FLEF Type Limited End Float Couplings

The FLEF Type coupling consists of two flex hubs, two sleeves, one accessory kit and a steel plate to limit the movement. This coupling is supplied with exposed bolts as standard. Shrouded bolts are available upon request through size 5.5.

Features

- Patented Vari-Crown® tooth form for long life
- Standard 20° pressure angle
- Heat treated bolts for greater strength
- Corrosion resistant bolts and nuts for ease of maintenance
- Provides and maintains restricted end float in sleeve bearings and rotor systems where thrust is not permitted
- Optional flow-through steel plate with lube holes available



FLEF Type Performance Data

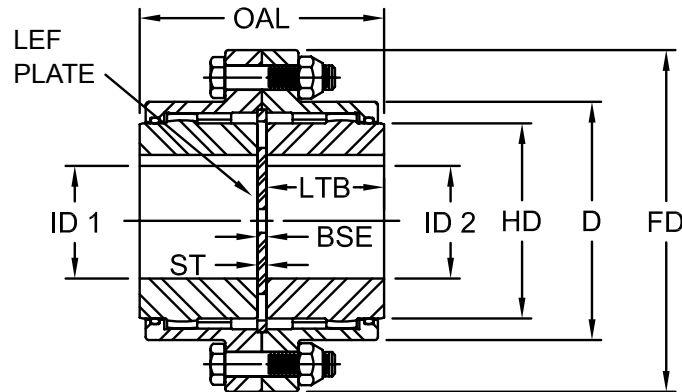
Size	Nominal Torque		Maximum Speed		ID1 - ID2				Weight		Parallel Misalignment		Max Angular Misalignment Degrees
					Max Bore		Rough Stock Bore						
	in-lb	Nm	Unbal RPM	Bal RPM	in	mm	in	mm	lbs	kg	in	mm	
1	7,600	850	6,000	9,000	1.625	42	0.44	11	9	4	0.056	1.4	1.5° Per Gear Mesh
1.5	18,900	2 140	5,500	8,250	2.125	56	0.69	18	19	9	0.060	1.5	
2	31,500	3 560	5,000	7,500	2.750	73	0.94	24	34	15	0.085	2.2	
2.5	56,700	6 410	4,400	6,600	3.250	85	1.44	37	54	25	0.105	2.7	
3	94,500	10 700	4,000	6,000	4.000	107	1.44	37	80	36	0.115	2.9	
3.5	151,200	17 100	3,500	5,250	4.625	125	1.81	46	130	59	0.130	3.3	
4	220,500	24 900	3,000	4,500	5.375	145	2.44	62	190	86	0.150	3.8	
4.5	302,400	34 200	2,700	4,050	6.000	165	3.00	76	250	114	0.175	4.4	
5	434,700	49 100	2,500	3,750	6.500	180	3.00	76	380	173	0.200	5.1	
5.5	573,300	64 800	2,200	3,300	7.500	200	4.00	101	520	236	0.220	5.6	
6	749,700	84 700	2,100	3,150	8.250	225	4.00	101	650	295	0.120	3.0	
7	1,008,000	113 900	2,000	3,000	9.500	255	5.00	127	950	431	0.135	3.4	

Ordering Information

- Application: Driver and Driven.
- Type and size of coupling, horizontal, vertical etc.
- Power: Motor horsepower or torque requirement.
- Speed: Motor RPM or Driven RPM.
- Distance between shaft ends (BSE).
- Shaft sizes.
- Amount of thrust on either or both shafts.
- Submit a drawing if available.

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FLEF Type Dimensional Data

Size	OAL	ID1 - ID2				LTB	BSE	F' (ref)	ST	FD	D	HD
		Max Bore		Rough Stock Bore								
	in	in	mm	in	mm	in	in	in	in	in	in	in
1	3.56	1.625	42	0.44	11	1.69	0.19	0.13	0.13	4.56	3.06	2.31
1.5	4.06	2.125	56	0.69	18	1.94	0.19	0.13	0.13	6.00	3.97	3.00
2	5.06	2.750	73	0.94	24	2.44	0.19	0.13	0.13	7.00	4.86	4.00
2.5	6.34	3.250	85	1.44	37	3.03	0.28	0.19	0.19	8.38	5.84	4.63
3	7.47	4.000	107	1.44	37	3.59	0.28	0.19	0.19	9.44	6.84	5.63
3.5	8.69	4.625	125	1.81	46	4.19	0.31	0.25	0.19	11.00	7.91	6.50
4	9.88	5.375	145	2.44	62	4.75	0.38	0.25	0.25	12.50	9.25	7.50
4.5	11.06	6.000	165	3.00	76	5.31	0.44	0.25	0.31	13.63	10.38	8.50
5	12.59	6.500	180	3.00	76	6.03	0.53	0.31	0.38	15.31	11.56	9.50
5.5	14.34	7.500	200	4.00	101	6.91	0.53	0.31	0.38	16.75	12.72	10.50
6	15.28	8.250	225	4.00	101	7.41	0.47	0.31	0.31	18.00	14.00	11.50
7	17.94	9.500	255	5.00	127	8.69	0.56	0.38	0.38	20.75	15.75	13.00

- Notes:
- 1 indicates: F is the total end float. (May be modified.)
 - Exposed Bolt Design is standard.
 - Shrouded Bolt Design available upon request for sizes 1 through 5.5.
 - Puller Holes are standard on sizes 4 through 9.
 - Puller Holes are available for sizes 1 through 3.5 at an additional charge.
 - Interference bores with no set screws are standard unless otherwise specified.
 - Inch bore and keyway tolerances conform to AGMA 9002-B04.
 - For metric bore and keyway tolerances, consult Lovejoy Engineering Section.