

Lovejoy / Sier-Bath Flanged Sleeve Gear Couplings

F Type Flex-Flex Couplings

The F Type coupling consists of two flex hubs, two sleeves and one accessory kit. 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 parallel, angular misalignment and end float
- Flex Half coupling interchangeable with industry standards



F Type Performance Data

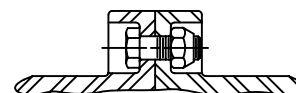
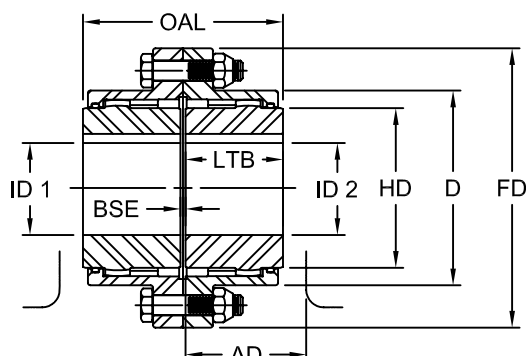
Size	Nominal Torque		Maximum Speed		ID1 - ID2				Weight		Axial Misalignment		Max Angular Misalignment Degrees
					Max Bore		Rough Stock Bore						
	in-lb	Nm	Unbal RPM	Bal RPM	in	mm	in	mm	lbs	kg	in	mm	
1	7,600	850	6,000	9,000	1.625	42	0.44	11	9	4	0.056	1.4	1.5° Per Gear Mesh
1.5	18,900	2 140	5,500	8,250	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	
8	1,323,000	149 500	1,900	2,850	11.500	310	6.00	152	1,560	708	0.160	4.1	
9	1,827,000	206 400	1,800	2,700	12.500	340	7.00	177	2,015	915	0.165	4.2	

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.

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Shrouded bolt design
also available

F Type Dimensional Data

Size	OAL in	ID1 - ID2				LTB in	BSE in	AD in	FD in	D in	HD in
		Max Bore		Rough Stock Bore							
		in	mm	in	mm						
1	3.50	1.625	42	0.44	11	1.69	0.13	2.04	4.56	3.06	2.31
1.5	4.00	2.125	56	0.69	18	1.94	0.13	2.32	6.00	3.97	3.00
2	5.00	2.750	73	0.94	24	2.44	0.13	2.94	7.00	4.86	4.00
2.5	6.25	3.250	85	1.44	37	3.03	0.19	3.47	8.38	5.84	4.63
3	7.38	4.000	107	1.44	37	3.59	0.19	3.97	9.44	6.84	5.63
3.5	8.63	4.625	125	1.81	46	4.19	0.25	4.57	11.00	7.91	6.50
4	9.75	5.375	145	2.44	62	4.75	0.25	5.00	12.50	9.25	7.50
4.5	10.94	6.000	165	3.00	76	5.31	0.31	5.50	13.63	10.38	8.50
5	12.38	6.500	180	3.00	76	6.03	0.31	6.34	15.31	11.56	9.50
5.5	14.13	7.500	200	4.00	101	6.91	0.31	7.04	16.75	12.72	10.50
6	15.13	8.250	225	4.00	101	7.41	0.31	8.35	18.00	14.00	11.50
7	17.75	9.500	255	5.00	127	8.69	0.38	9.82	20.75	15.75	13.00
8	22.38	11.500	310	6.00	152	11.00	0.38	12.31	23.25	18.34	15.50
9	23.50	12.500	340	7.00	177	11.50	0.50	13.00	26.00	20.38	17.00

- Notes:
- 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.
 - Bore and keyway tolerances conform to ANSI / AGMA 9002-B04.
 - For metric bores and keyway tolerances, consult Lovejoy Engineering Section.