

Lovejoy / Sier-Bath Flanged Sleeve Gear Couplings

FA Type Alloy Steel Flex-Flex Couplings

The FA 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

- Molded seals maintain proper lubricant retention during misalignment conditions
- AISI 4140 Alloy Steel Construction
- 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



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FA Type Performance Data

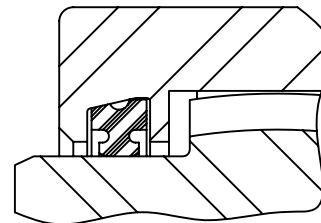
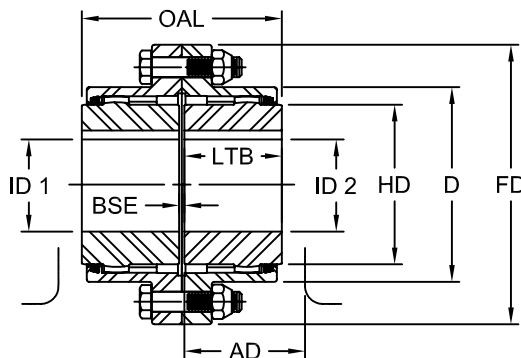
Size	Nominal Torque		Maximum Speed		ID1 - ID2				Weight		Parallel Misalignment		Max Angular Misalignment Degrees
					Max Bore Standard Keyway		Rough Stock Bore						
	in-lb	Nm	Unbal RPM	Bal RPM	in	mm	in	mm	lbs	kg	in	mm	
1	11,300	1 280	6,000	9,000	1.625	42	0.44	11	9	4	0.056	1.4	1.5° Per Gear Mesh
1.5	22,700	2 560	5,500	8,250	2.125	56	0.69	18	19	9	0.060	1.5	
2	39,000	4 410	5,000	7,500	2.75	73	0.94	24	34	15	0.085	2.2	
2.5	69,300	7 930	4,400	6,600	3.25	88	1.44	37	54	25	0.105	2.7	
3	118,000	13 300	4,000	6,000	4.000	107	1.44	37	80	36	0.115	2.9	
3.5	177,000	20 000	3,500	5,250	4.625	124	1.81	46	130	59	0.130	3.3	
4	263,400	29 760	3,000	4,500	5.375	147	2.44	62	190	86	0.150	3.8	
4.5	354,000	40 000	2,700	4,050	6.000	167	3.00	76	250	114	0.175	4.4	
5	508,600	57 470	2,500	3,750	6.500	176	3.00	76	380	173	0.200	5.1	
5.5	670,700	75 790	2,200	3,300	7.500	202	4.00	101	520	236	0.220	5.6	
6	877,100	99 110	2,100	3,150	8.250	225	4.00	101	650	295	0.120	3.0	
7	1,179,300	1 332 600	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.

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FA Type Dimensional Data

Size	OAL in	AD in	ID1 - ID2				LTB in	BSE in	FD in	D in	HD in
			Max Bore Standard Keyway		Rough Stock Bore						
			in	mm	in	mm					
1	3.50	4.19	1.625	42	0.44	11	1.69	0.13	4.56	3.06	2.31
1.5	4.00	4.75	2.125	56	0.69	18	1.94	0.13	6.00	3.97	3.00
2	5.00	6.00	2.750	73	0.94	24	2.44	0.13	7.00	4.86	4.00
2.5	6.25	7.13	3.250	88	1.44	37	3.03	0.19	8.38	5.84	4.63
3	7.38	8.13	4.000	107	1.44	37	3.59	0.19	9.44	6.84	5.63
3.5	8.63	9.38	4.625	124	1.81	46	4.19	0.25	11.00	7.91	6.50
4	9.75	10.25	5.375	147	2.44	62	4.75	0.25	12.50	9.25	7.50
4.5	10.94	11.50	6.000	167	3.00	76	5.31	0.31	13.63	10.38	8.50
5	12.38	13.00	6.500	176	3.00	76	6.03	0.31	15.31	11.56	9.50
5.5	14.13	14.38	7.500	202	4.00	101	6.91	0.31	16.75	12.72	10.50
6	15.13	17.00	8.250	225	4.00	101	7.41	0.31	18.00	14.00	11.50
7	17.75	20.00	9.500	255	5.00	127	8.69	0.38	20.75	15.75	13.00

- 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 7.
 - 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.