

Lovejoy / Sier-Bath Flanged Sleeve Gear Couplings

FFR Single Engagement (Flex-Rigid)

The FFR Type coupling consists of one flex hub, one rigid hub, one sleeve 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 on the Flex Hub for long life
- Standard 20° pressure angle
- Heat treated bolts for greater strength
- Corrosion resistant bolts and nuts for ease of maintenance
- Accommodates angular misalignment only
- Half coupling interchangeable with industry standards

FFR Type Performance Data

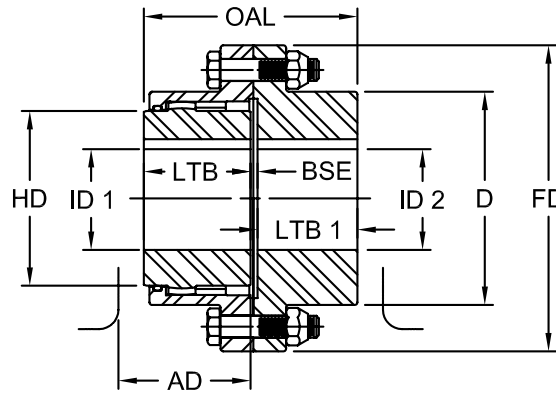
Size	Nominal Torque		Maximum Speed		ID1				ID2				Weight		Max Angular Misalignment Degrees
					Flex Hubs Max Bore		Flex Hubs Rough Stock Bore		Rigid Hubs Max Bore		Rigid Hubs Rough Stock Bore				
	in-lb	Nm	Unbal RPM	Bal RPM	in	mm	in	mm	in	mm	in	mm	lbs	kg	
1	7,600	850	6,000	9,000	1.625	42	0.44	11	2.125	56	solid	solid	9	4	1.5° Per Gear Mesh
1.5	18,900	2 140	5,500	8,250	2.125	56	0.69	18	2.813	76	solid	solid	17	8	
2	31,500	3 560	5,000	7,500	2.750	73	0.94	24	3.500	95	solid	solid	34	15	
2.5	56,700	6 410	4,400	6,600	3.250	85	1.44	37	4.250	114	solid	solid	55	25	
3	94,500	10 700	4,000	6,000	4.000	107	1.44	37	4.875	134	solid	solid	86	39	
3.5	151,200	17 100	3,500	5,250	4.625	125	1.81	46	5.625	150	solid	solid	125	61	
4	220,500	24 900	3,000	4,500	5.375	145	2.44	62	6.500	176	solid	solid	195	89	
4.5	302,400	34 200	2,700	4,050	6.000	165	3.00	76	7.625	202	solid	solid	268	122	
5	434,700	49 100	2,500	3,750	6.500	180	3.00	76	8.750	230	4.00	101	394	179	
5.5	573,300	64 800	2,200	3,300	7.500	200	4.00	101	9.500	260	4.50	114	526	239	
6	749,700	84 700	2,100	3,150	8.250	225	4.00	101	10.500	285	5.50	127	687	312	
7	1,008,000	113 900	2,000	3,000	9.500	255	5.00	127	12.000	320	5.75	139	1,017	462	
8	1,323,000	149 500	1,900	2,850	11.500	310	6.00	152	14.000	375	6.50	165	1,609	730	
9	1,827,000	206 400	1,800	2,700	12.500	340	7.00	177	15.500	415	7.50	190	2,128	966	

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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FFR Type Flex-Rigid Couplings



FFR Type Dimensional Data

Size	OAL in	ID1				ID2				LTB in	LTB 1 in	BSE in	AD in	FD in	D in	HD in
		Flex Hubs Max Bore		Flex Hubs Rough Stock Bore		Rigid Hubs Max Bore		Rigid Hubs Rough Stock Bore								
		in	mm	in	mm	in	mm	in	mm							
1	3.41	1.625	42	0.44	11	2.125	56	solid	solid	1.69	1.56	0.16	2.19	4.56	3.06	2.31
1.5	3.94	2.125	56	0.69	18	2.813	76	solid	solid	1.94	1.84	0.16	2.47	6.00	3.97	3.00
2	4.88	2.750	73	0.94	24	3.500	95	solid	solid	2.44	2.28	0.16	3.10	7.00	4.86	4.00
2.5	6.13	3.250	85	1.44	37	4.250	114	solid	solid	3.03	2.91	0.19	3.65	8.38	5.84	4.63
3	7.19	4.000	107	1.44	37	4.875	134	solid	solid	3.59	3.41	0.19	4.15	9.44	6.84	5.63
3.5	8.38	4.625	125	1.81	46	5.625	150	solid	solid	4.19	3.97	0.22	4.78	11.00	7.91	6.50
4	9.50	5.375	145	2.44	62	6.500	176	solid	solid	4.75	4.43	0.31	5.31	12.50	9.25	7.50
4.5	10.68	6.000	165	3.00	76	7.625	202	solid	solid	5.31	5.03	0.34	5.97	13.63	10.38	8.50
5	12.06	6.500	180	3.00	76	8.750	230	4.00	101	6.03	5.69	0.34	6.69	15.31	11.56	9.50
5.5	13.40	7.500	200	4.00	101	9.500	260	4.50	114	6.91	6.15	0.34	7.34	16.75	12.72	10.50
6	15.23	8.250	225	4.00	101	10.500	285	5.50	127	7.41	7.41	0.41	8.78	18.00	14.00	11.50
7	17.88	9.500	255	5.00	127	12.000	322	5.75	139	8.69	8.69	0.50	10.31	20.75	15.75	13.00
8	22.50	11.500	310	6.00	152	14.000	375	6.50	165	11.00	11.00	0.50	12.81	23.25	18.34	15.50
9	23.56	12.500	340	7.00	177	15.500	415	7.50	190	11.50	11.50	0.56	13.56	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.