

Lovejoy / Sier-Bath Flanged Sleeve Gear Couplings

FSPCR Type Spacer Couplings

The FSPCR Type coupling consists of two flex hubs, two sleeves, one spacer and two accessory kits. 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
- Removal of spacer provides adequate space for the removal of either coupling half without moving the driver or driven units



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FSPCR Type Performance Data

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

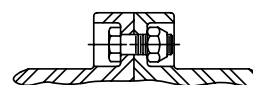
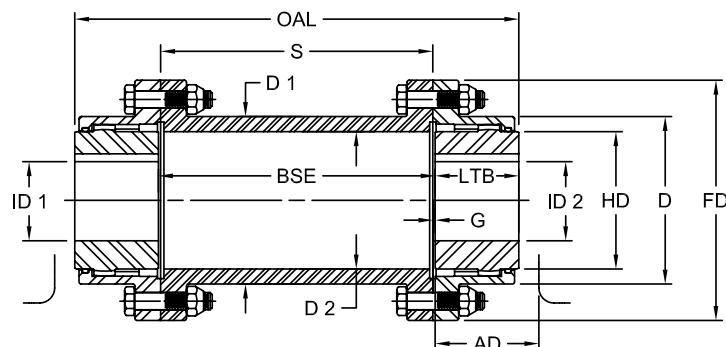
Note: ■ 1 indicates: Maximum RPM of spacer set determined by critical speed of spacer.

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

FSPCR Type Dimensional Data

Size	OAL in	S in	AD in	ID1 - ID2				LTB in	BSE in	G in	FD in	D in	HD in	D1 in	D2 in
				Max Bore		Rough Stock Bore									
				in	mm	in	mm								
1	Determined by Shaft Separation		2.04	1.625	42	0.44	11	1.69	Determined by Customer Specs	0.06	4.56	3.06	2.31	3.00	2.41
1.5			2.32	2.125	56	0.69	18	1.94		0.06	6.00	3.97	3.00	3.75	3.13
2			2.94	2.750	73	0.94	24	2.44		0.06	7.00	4.86	4.00	4.75	4.00
2.5			3.47	3.250	85	1.44	37	3.03		0.09	8.38	5.84	4.63	5.50	4.78
3			3.97	4.000	107	1.44	37	3.59		0.09	9.44	6.84	5.63	6.50	5.75
3.5			4.57	4.625	125	1.81	46	4.19		0.13	11.00	7.91	6.50	7.38	6.63
4			5.00	5.375	145	2.44	62	4.75		0.13	12.50	9.25	7.50	8.63	7.75
4.5			5.50	6.000	165	3.00	76	5.31		0.16	13.63	10.38	8.50	9.38	8.50
5			6.34	6.500	180	3.00	76	6.03		0.16	15.31	11.56	9.50	10.38	9.56
5.5			7.04	7.500	200	4.00	101	6.91		0.16	16.75	12.72	10.50	11.44	10.56
6			8.35	8.250	225	4.00	101	7.41		0.16	18.00	14.00	11.50	12.38	11.44
7			9.82	9.500	255	5.00	127	8.69		0.19	20.75	15.75	13.00	14.00	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 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.