Lovejoy / Sier-Bath Flanged Sleeve Gear Couplings

FSL Type Slide Coupling

The FSL Type coupling consists of one or two modified flex hubs depending on the maximum slide required, two sleeves, one plate with lube holes and one accessory kit. The 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
- Assembled to suit a wide range of axial movement
- Plates with lube holes so both halves of the coupling will be adequately lubricated

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FSL Type Performance Data

Size	Nominal Torque in-lb	Nominal Torque Nm	Maximum Speed Unbal RPM	Maximum Speed Bal RPM	ID1 - ID2 Max Bore in	ID1 - ID2 Max Bore mm	ID1 - ID2 Rough Stock Bore in	ID1 - ID2 Rough Stock Bore mm	Weight lbs	Weight kg	Max Angular Misalignment Degrees
1	7,600	850	6,000	9,000	1.625	42	0.44	11	9	4	
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	1.5°
4	220,500	24 900	3,000	4,500	5.375	145	2.44	62	190	86	Per Gear Mesh
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	5.75	139	950	431	

Ordering Information

- Application: Driver and Driven.
- Type and size of coupling, horizontal, vertical etc.
- Power: Motor horspower or torque requirement.
- Speed: Motor RPM or Driven RPM.
- Distance between shaft ends (maximum-minimum shaft separation).
- Shaft sizes.
- Amount of slide required.

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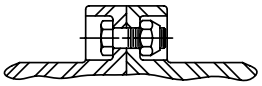
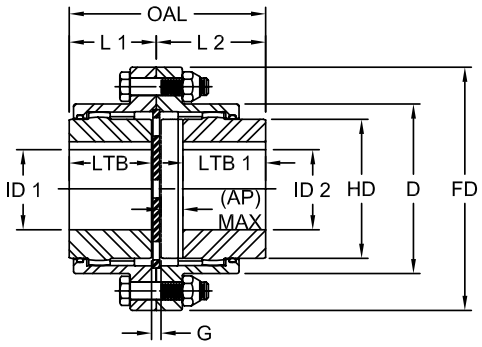
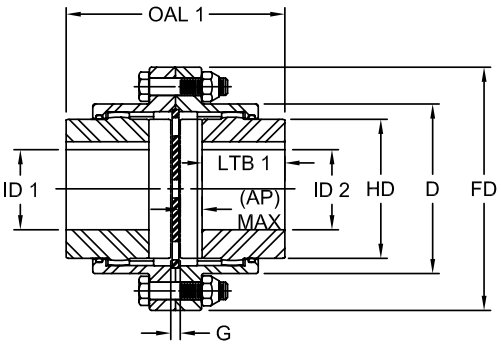


Shrouded Bolt Design
Also Available



1 Hub Reversed
And Modified



2 Hubs Reversed
And Modified

FSL Type Dimensional Data

Size	OAL One Hub Reversed in	OAL1 Two Hubs Reversed in	L1 Std Hub in	L2 Slide Half in	ID1 - ID2 Max Bore in	ID1 - ID2 Max Bore mm	ID1 - ID2 Rough Stock Bore in	ID1 - ID2 Rough Stock Bore mm	LTB Std Hub in	LTB1 Slide Hub in	AP[1] Max in	G Min in	FD in	D in	HD in
1	3.81	4.13	1.75	2.06	1.625	42	0.44	11	1.59	1.50	0.41	0.31	4.56	3.06	2.31
1.5	4.25	4.50	2.00	2.25	2.125	56	0.69	18	1.84	1.75	0.34	0.31	6.00	3.97	3.00
2	5.69	6.38	2.50	3.19	2.750	73	0.94	24	2.34	2.25	0.78	0.31	7.00	4.86	4.00
2.5	7.03	7.81	3.13	3.91	3.250	85	1.44	37	2.94	2.78	0.94	0.38	8.38	5.84	4.63
3	8.03	8.69	3.69	4.34	4.000	107	1.44	37	3.50	3.13	1.03	0.38	9.44	6.84	5.63
3.5	9.19	9.75	4.31	4.88	4.625	125	1.81	46	4.09	3.59	1.06	0.44	11.00	7.91	6.50
4	10.44	11.13	4.88	5.56	5.375	145	2.44	62	4.56	3.94	1.31	0.63	12.50	9.25	7.50
4.5	12.00	13.06	5.47	6.53	6.000	165	3.00	76	5.13	4.50	1.69	0.69	13.63	10.38	8.50
5	13.72	15.06	6.19	7.53	6.500	180	3.00	76	5.84	5.22	1.97	0.69	15.31	11.56	9.50
5.5	15.34	16.56	7.06	8.28	7.500	200	4.00	101	6.72	5.88	2.06	0.69	16.75	12.72	10.50
6	16.53	17.94	7.56	8.97	8.250	225	4.00	101	7.16	7.09	1.47	0.81	18.00	14.00	11.50
7	19.06	20.38	8.88	10.19	9.500	255	5.75	139	8.38	7.78	1.91	1.00	20.75	15.75	13.00

Notes:
- 1 indicates: AP Max = Maximum slide per coupling half.
- 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.