

Lovejoy / Sier-Bath Flanged Sleeve Gear Couplings

FLA Type Flex-Flex All-Metal Labyrinth Seal Couplings

The FLA Type coupling consists of two special 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

- All-Metal Labyrinth Seals
- 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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FLA Type Performance Data

Size	Nominal Torque		Maximum Speed		ID1 - ID2				Weight		Parallel Misalignment		Max Angular Misalignment Degrees
					Max Bore Standard		Rough Stock Bore						
					Unbal RPM	Bal RPM	Keyway						
1.5	15,000	1 700	12,000	18,000	1.625	41	0.38	9	17.6	8	0.028	0.7	1.5° Per Gear Mesh
2	35,500	4 000	9,300	13,950	2.125	53	0.5	12	29.1	13	0.035	0.9	
2.5	69,300	7 800	7,900	11,850	2.750	69	0.75	19	50.9	23	0.044	1.1	
3	118,900	13 400	6,800	10,200	3.125	79	1.13	28	74.4	34	0.052	1.3	
3.5	188,500	21 300	6,000	9,000	3.750	95	1.50	38	120	55	0.061	1.5	
4	283,800	32 100	5,260	7,890	4.250	107	1.50	38	185	84	0.700	1.8	
4.5	393,800	44 500	4,770	7,155	4.750	120	1.50	38	240	109	0.079	2.0	
5	551,300	62 300	4,300	6,450	5.500	139	2.50	63	365	166	0.087	2.2	
5.5	732,500	82 800	3,880	5,820	5.875	149	3.00	76	435	198	0.096	2.4	
6	952,500	107 600	3,600	5,400	6.500	165	4.00	101	538	244	0.105	2.7	
7	1,512,500	170 900	3,000	4,500	8.000 ¹	203	4.50	114	860	390	0.122	3.1	

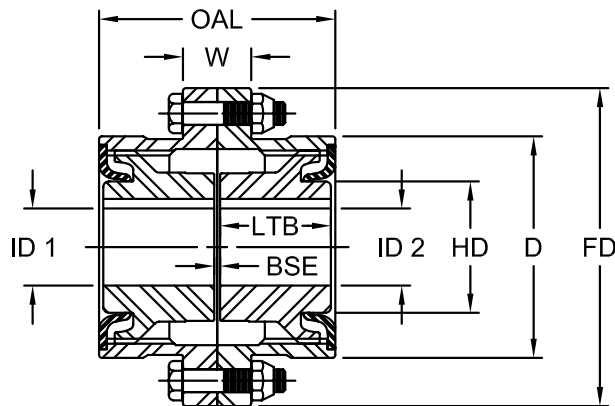
Note: ■ 1 Indicates: Maximum bore for square keyway.

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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FLA Type All Metal Labyrinth Seal Couplings



FLA Type Dimensional Data

Size	OAL in	W in	ID1 - ID2				LTB in	BSE in	FD in	D in	HD in	C/L - C/L of Teeth*	Puller Holes
			Max Bore Standard Keyway		Rough Stock Bore								
			in	mm	in	mm							
1.5	4.19	1.50	1.625	41	0.38	9	1.94	0.13	6.00	3.97	2.19	3.25	1/4-20
2	5.19	1.50	2.125	53	0.50	12	2.44	0.13	7.00	4.91	2.88	4.00	38-16
2.5	6.44	1.75	2.750	69	0.75	19	3.03	0.19	8.38	5.91	3.63	5.00	1/2-13
3	7.69	1.75	3.125	79	1.13	28	3.59	0.19	9.44	6.91	4.25	6.00	5/8-11
3.5	8.88	2.25	3.750	95	1.50	38	4.19	0.25	11.00	7.91	5.00	7.00	5/8-11
4	10.13	2.50	4.250	107	1.50	38	4.75	0.25	12.50	9.25	5.75	8.00	7/8-9
4.5	11.38	2.50	4.750	120	1.50	38	5.31	0.31	13.63	10.38	6.50	9.00	1-8
5	12.63	3.00	5.500	139	2.50	63	6.03	0.31	15.31	11.56	7.31	10.00	1-8
5.5	14.13	1.88	5.875	149	3.00	76	6.91	0.31	16.75	12.81	8.00	11.00	1-8
6	15.13	2.00	6.500	165	4.00	101	7.41	0.31	18.00	14.00	8.81	12.00	1-8
7	17.75	2.25	8.000 ¹	203	4.50	114	8.69	0.38	20.75	15.75	10.31	14.00	1 1/4-7

- Notes:
- 1 indicates: Maximum bore for square keyway.
 - * indicates: Center line to center line of teeth.
 - Exposed Bolt Design is standard.
 - Shrouded Bolt Design available upon request for sizes 1 through 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.