

**Lovejoy / Sier-Bath Continuous Sleeve Gear Couplings**

**CFS Type Floating Shaft Coupling**

The CFS Type coupling consists of two flex-rigid (CFR) couplings with a shaft between them. Normally the driver and driven ends are rigid while the two center hubs connected by the center shaft are flexible. These hubs can be reversed if necessary without sacrificing ease of installation or disassembly.



**CFS Type Performance Data**

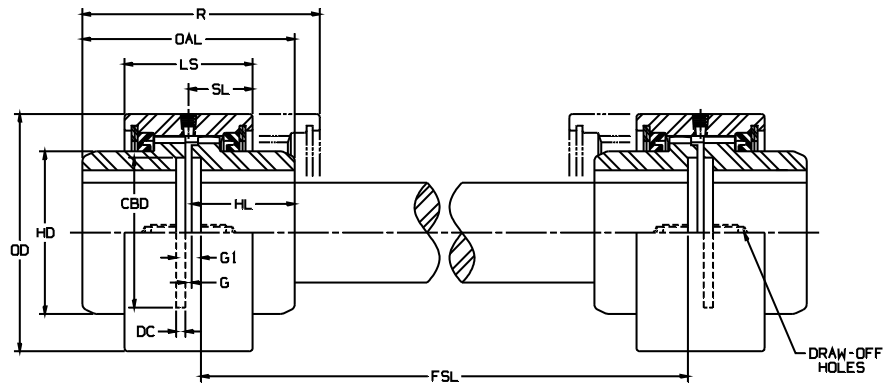
Size	Nominal Torque		Maximum Speed		ID1 - ID2				Weight Coupling Only		Parallel Misalignment		Max Angular Misalignment Degrees
					Flex & Rigid Max Bore		Flex & Rigid Rough Stock Bore						
					Unbal RPM	Bal RPM	in	mm					
7/8	2,500	300	6,000	18,000	1.25	31	0.44	11	10	4.5	0.005	.13	1/2°
1.5	7,600	900	5,000	15,000	1.63	42	0.63	16	16	7.3	0.007	.18	
2	20,200	2 300	4,200	12,600	2.13	56	0.73	19	26	12.0	0.007	.18	
2.5	30,200	3 400	3,750	11,250	2.63	70	0.88	22	40	18.0	0.007	.18	
3	50,400	5 700	3,600	9,000	3.13	84	1.19	30	66	30.0	0.010	.25	
3.5	88,200	10 000	2,800	8,400	3.63	97	1.25	32	126	57.0	0.012	.30	1/4°
4	126,000	14 200	2,400	7,200	4.13	111	1.75	44	182	83.0	0.012	.30	
4.5	184,000	20 800	2,200	6,600	4.75	130	2.38	60	252	114.0	0.007	.18	
5	270,000	30 600	2,100	6,300	5.75	160	2.88	73	390	177.0	0.007	.18	
6	378,000	42 700	2,000	6,000	6.75	186	3.88	99	534	242.0	0.009	.23	

**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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**CFS Type Dimensional Data**

Size	R	OAL	LS	SL	ID1 - ID2				HL	DC	BSE Min	G	G1	OD	HD	CBD
					Flex & Rigid Max Bore		Flex & Rigid Rough Stock Bore									
					in	mm	in	mm								
7/8	3.75	3.13	2.00	1.00	1.25	31	0.44	11	2.00	0.13	3.75	0.13	0.38	3.31	2.00	1.94
1.5	4.59	3.75	2.53	1.27	1.63	42	0.63	16	2.38	0.19	4.63	0.13	0.50	3.75	2.38	2.25
2	4.88	4.25	2.56	1.28	2.13	56	0.73	19	3.25	0.19	5.13	0.13	0.50	4.75	3.25	3.00
2.5	5.72	4.75	3.06	1.53	2.63	70	0.88	22	3.94	0.25	6.00	0.25	0.75	5.50	3.94	3.75
3	6.88	5.50	3.75	1.88	3.13	84	1.19	30	4.75	0.25	6.75	0.25	0.75	6.63	4.75	4.75
3.5	9.25	8.75	4.00	2.00	3.63	97	1.25	32	5.38	0.25	9.50	0.25	0.75	7.50	5.38	5.50
4	9.50	9.00	4.63	2.31	4.13	111	1.75	44	6.25	0.25	9.75	0.25	0.75	8.75	6.25	6.50
4.5	10.38	10.25	4.88	2.44	4.75	130	2.38	60	7.25	0.25	11.00	0.25	0.75	9.50	7.25	7.25
5	12.25	12.25	5.75	2.88	5.75	160	2.88	73	8.25	0.25	13.00	0.25	0.75	10.75	8.25	8.13
6	13.38	13.00	6.50	3.25	6.75	186	3.88	99	9.50	0.25	13.75	0.25	0.75	12.25	9.50	9.25

- Notes:
- FSL Dimension is the minimum length of the floating shaft.
  - The BSE (distance Between Shaft Ends) vary between G and G1.
  - Puller Holes are standard on sizes 4 through 6.
  - Puller Holes are available for sizes 7/8 through 3.5 at an additional charge.
  - Interference bores with no set screws are standard unless otherwise specified.
  - Inch bores and keyway tolerances conform to ANSI / AGMA 9002-B04.
  - For metric bores and keyway tolerances, consult Lovejoy Engineering Section.
  - Larger sizes are available, please consult Lovejoy Technical Support.