

Lovejoy / Sier-Bath Continuous Sleeve Gear Couplings

CSPCR Type Spacer Couplings

The CSPCR Type coupling consists of two flex hubs, two sleeves, one spacer, one accessory kit, two split seals and two lock rings.

Features

- Easy removal of hubs without disturbing the mounting of connected units
- Spacer teeth are rigid with a slight interference fit with the mating flex hub
- Split seals on the spacer



CSPCR Type Performance Data

Size	Nominal Torque		Maximum Speed ¹		ID1 - ID2				Weight Couplings Only		Parallel Misalignment		Max Angular Misalignment Degrees
					Max Bore		Rough Stock Bore						
	in-lb	Nm	Unbal RPM	Bal RPM	in	mm	in	mm	lbs	kg	in	mm	
7/8	2,500	300	6,000	18,000	1.25	31	0.44	11	7	3.2	0.005	.13	1/2° per Mesh
1.5	7,600	900	5,000	15,000	1.63	42	0.63	16	11	5.0	0.007	.18	
2	20,200	2 300	4,200	12,600	2.13	56	0.73	19	16	7.3	0.007	.18	
2.5	30,200	3 400	3,750	11,250	2.63	70	0.88	22	26	12.0	0.007	.18	
3	50,400	5 700	3,600	9,000	3.13	84	1.19	30	43	20.0	0.010	.25	
3.5	88,200	10 000	2,800	8,400	3.63	97	1.25	32	79	36.0	0.012	.30	1/4° per mesh
4	126,000	14 200	2,400	7,200	4.13	111	1.75	44	115	52.0	0.012	.30	
4.5	184,000	20 800	2,200	6,600	4.75	130	2.38	60	158	72.0	0.007	.18	
5	270,000	30 600	2,100	6,300	5.75	160	2.88	73	248	113.0	0.007	.18	
6	378,000	42 700	2,000	6,000	6.75	186	3.88	99	340	154.0	0.009	.23	

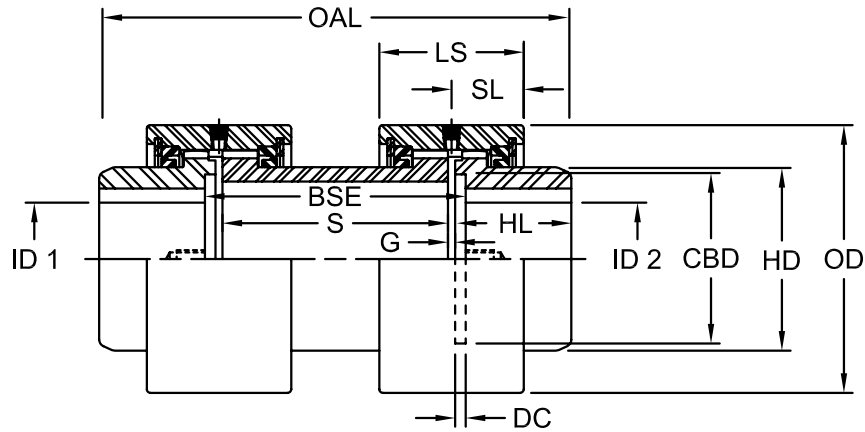
Note: ■ 1 indicates: Maximum RPM of spacer coupling determined by critical speed of spacer shaft.

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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CSPCR Type Dimensional Data

Size	OAL Min in	LS in	SL in	ID1 - ID2				BSE Min in	S Min in	HL in	G in	DC in	OD in	HD in	CBD in
				Max Bore		Rough Stock Bore									
				in	mm	in	mm								
7/8	6.76	2.00	1.00	1.25	31	All Solid	11	4.00	3.50	1.50	0.13	0.13	3.31	2.00	1.94
1.5	7.38	2.53	1.27	1.63	42		16	4.13	3.50	1.81	0.13	0.19	3.75	2.38	2.25
2	8.51	2.56	1.28	2.13	56		19	4.75	4.13	2.06	0.13	0.19	4.75	3.25	3.00
2.5	9.50	3.06	1.53	2.63	70		22	5.50	4.50	2.25	0.25	0.25	5.50	3.94	3.75
3	11.01	3.75	1.88	3.13	84		30	6.25	5.25	2.63	0.25	0.25	6.63	4.75	4.75
3.5	15.00	4.00	2.00	3.63	97		32	7.00	6.00	4.25	0.25	0.25	7.50	5.38	5.50
4	15.89	4.63	2.31	4.13	111	1.75	44	7.63	6.63	4.38	0.25	0.25	8.75	6.25	6.50
4.5	17.38	4.88	2.44	4.75	130	2.38	60	7.88	6.88	5.00	0.25	0.25	9.50	7.25	7.25
5	20.25	5.75	2.88	5.75	160	2.88	73	8.75	7.75	6.00	0.25	0.25	10.75	8.25	8.13
6	21.76	6.50	3.25	6.75	186	3.88	99	9.50	8.50	6.38	0.25	0.25	12.25	9.50	9.25

- Notes:
- 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.