

Lovejoy / Sier-Bath Continuous Sleeve Gear Couplings

CSHP Type Shear Pin Couplings

The CSHP Type coupling consists of one standard flex hub, two piece shear hub and one set of shear pins, one standard sleeve and accessory kit.

Features

- Designed to prevent damage to connected equipment
- Manufactured to shear at predetermined loads
- New Pins can be quickly inserted



CSHP Type Performance Data

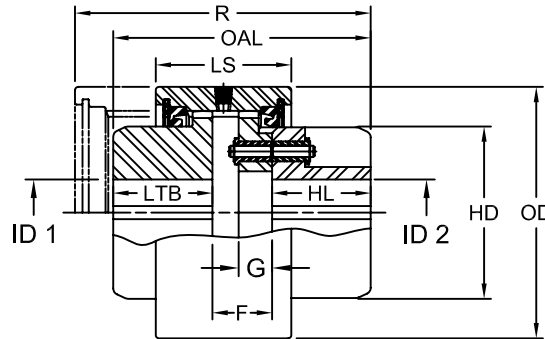
Size	Nominal Torque		Maximum Speed		ID1 - ID2				Weight		Parallel Misalignment		Max Angular Misalignment Degrees
					Flex or Rigid Max Bore		Shear Hub Max Bore						
					Unbal RPM	Bal RPM	in	mm					
1.5	7,600	900	5,000	15,000	1.63	42	0.938	24	8	4	0.007	.18	1/2°
2	20,200	2 300	4,200	12,600	2.13	56	1.500	38	10	5	0.007	.18	
2.5	30,200	3 400	3,750	11,250	2.63	70	1.750	44	15	7	0.007	.18	
3	50,400	5 700	3,600	9,000	3.13	84	2.250	57	23	10	0.010	.25	1/4°
3.5	88,200	10 000	2,800	8,400	3.63	97	2.625	66	47	21	0.012	.30	
4	126,000	14 200	2,400	7,200	4.13	111	3.625	92	90	41	0.012	.30	
4.5	184,000	20 800	2,200	6,600	4.75	130	4.125	104	112	51	0.007	.18	
5	270,000	30 600	2,100	6,300	5.75	160	4.500	114	177	80	0.007	.18	1/4°
6	378,000	42 700	2,000	6,000	6.75	186	5.875	149	250	114	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.
- Specify which is the Shear Pin hub.
- Specify the required shear torque.

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CSHP Type Spacer Couplings



CSHP Type Dimensional Data

Size	R	OAL	LS	SL	ID1		ID2		LTB	HL	G	F	OD	HD
					Flex or Rigid	Max Bore	Shear Hub	Max Bore						
	in	in	in	in	in	m	in	mm	in	in	in	in	in	in
1.5	5.28	4.38	2.53	1.27	1.63	42	0.938	24	1.63	2.25	0.50	1.13	3.75	2.38
2	5.56	4.88	2.56	1.28	2.13	56	1.500	38	1.88	2.50	0.50	1.13	4.75	3.25
2.5	6.50	5.44	3.06	1.53	2.63	70	1.750	44	2.00	2.69	0.75	1.50	5.50	3.94
3	7.75	6.38	3.75	1.88	3.13	84	2.250	57	2.38	3.25	0.75	1.63	6.63	4.75
3.5	8.13	8.13	4.00	2.00	3.63	97	2.625	66	4.00	3.38	0.75	1.75	7.50	5.38
4	9.50	9.00	4.63	2.31	4.13	111	3.625	92	4.13	4.13	0.75	2.00	8.75	6.25
4.5	9.88	9.75	4.88	2.44	4.75	130	4.125	104	4.75	4.25	0.75	2.00	9.50	7.25
5	11.50	11.50	5.75	2.88	5.75	160	4.500	114	5.75	5.00	0.75	2.25	10.75	8.25
6	13.13	13.00	6.50	3.25	6.75	186	5.875	149	6.13	6.13	0.75	2.88	12.25	9.50

- Notes:
- Puller Holes are standard on sizes 4 through 6.
 - Puller Holes are available for sizes 1.5 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.