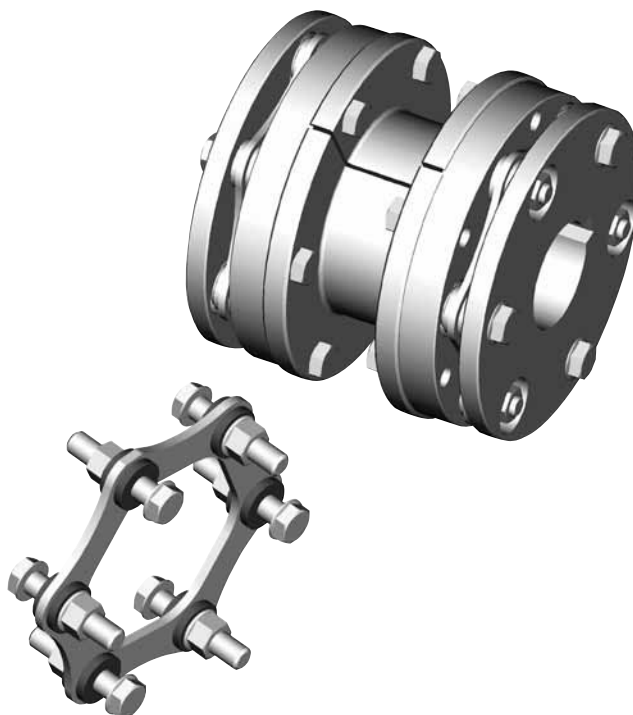


SXCST-6 Type Closed Coupled Industrial Coupling

The SXCST Type is a standard 6 bolt coupling consisting of two hubs, two mounting rings, two disc packs and a split spacer. Custom spacer lengths can be specified for special applications. The coupling has two flex planes (one at each disc pack) so it can accommodate parallel misalignment by the angular misalignment in each disc pack. This configuration will also accommodate axial misalignment within the specified limits.

Features

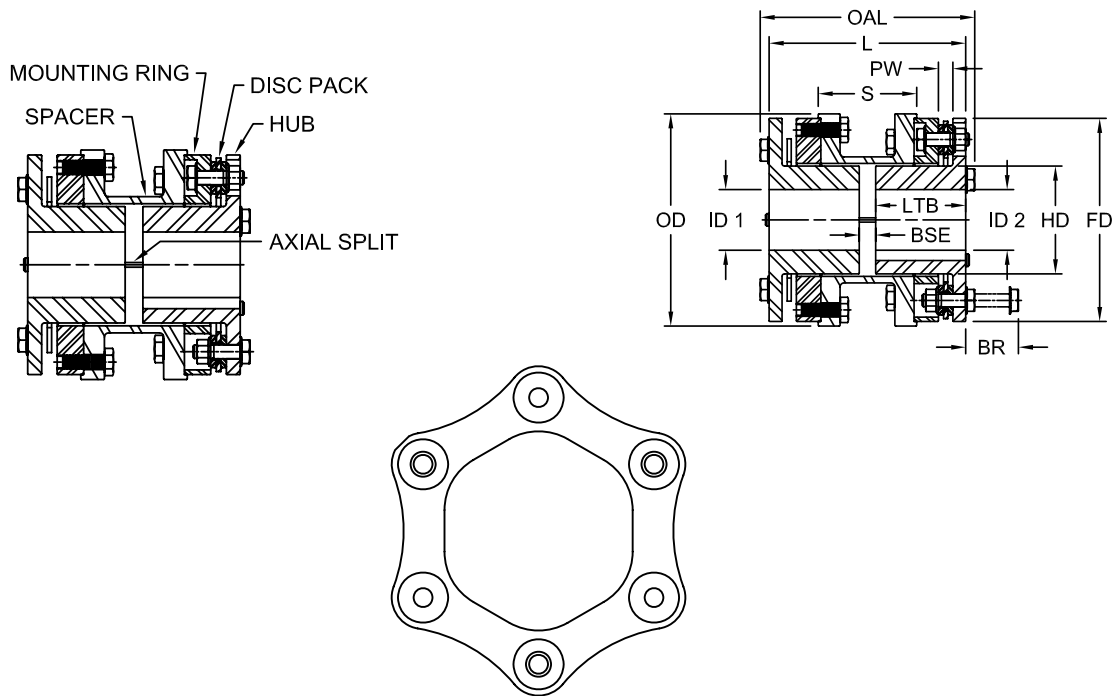
- Unitized disc pack
- Infinite life when properly sized and aligned
- Accommodates angular, axial, and parallel misalignment
- Torsionally rigid without any back lash
- No need for lubrication or maintenance
- No wearing parts and high resistance to harsh environmental conditions
- Close coupled
- Split spacer design allows for ease of maintenance and disc pack removal or replacement without moving equipment



SXCST-6 Performance Data

Size	Nominal Torque		Peak Torque		Max Speed		ID1 - ID2 Max Bore ³		Axial ⁴ Misalignment ± ΔKa		Angular ⁵ Misalignment Max Degrees
	in-lbs	Nm	in-lbs	Nm	Unbal ¹ RPM	Bal ² RPM	in	mm	in	mm	
90-6	2,100	240	4,200	480	9,100	22,700	1.20	31	0.059	1.5	1.5°
110-6	5,100	575	10,200	1 150	7,200	18,000	1.56	39	0.083	2.1	
132-6	9,700	1 100	19,500	2 200	5,840	14,600	2.06	50	0.102	2.6	
158-6	17,700	2 000	35,400	4 000	4,920	12,300	2.38	60	0.122	3.1	
185-6	29,200	3 300	58,400	6 600	4,200	10,500	2.68	68	0.146	3.7	
202-6	40,700	4 600	81,400	9 200	3,840	9,600	3.06	75	0.150	3.8	1°
228-6	62,000	7 000	123,900	14 000	3,400	8,500	3.44	85	0.165	4.2	
255-6	90,300	10 200	180,600	20 400	3,080	7,700	3.88	95	0.185	4.7	
278-6	125,700	14 200	251,400	28 400	2,800	7,000	4.25	105	0.205	5.2	
302-6	177,000	20 000	354,000	40 000	2,560	6,400	4.63	115	0.224	5.7	
325-6	221,300	25 000	442,600	50 000	2,400	6,000	4.88	125	0.256	6.5	
345-6	274,400	31 000	549,000	62 000	2,200	5,500	5.25	130	0.272	6.9	
380-6	374,400	42 300	749,000	84 600	2,040	5,100	5.75	145	0.299	7.6	
410-6	505,400	57 100	1,011,000	114 200	1,880	4,700	6.25	160	0.323	8.2	
440-6	650,500	73 500	1,301,000	147 000	1,740	4,350	6.50	165	0.346	8.8	

- Notes: ■ 1 indicates: Operating speed must be equal or less than permissible speed which is limited by the weight and critical speed of the spacer.
- 2 indicates: For higher speeds contact Lovejoy Technical Support.
- 3 indicates: The maximum bores shown are for cylindrical or taper shafts with keys. For splines and other types of bores, contact Lovejoy Technical Support.
- 4 indicates: Axial misalignment is given for two disc packs.
- 5 indicates: Angular misalignment is given for one disc pack.



SXCST-6 Dimensional Data

Size	OAL		L		PW		S		LTB		BSE ⁷ Standard		BR		FD		HD		OD	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
90-6	3.92	99.6	3.60	91.4	0.295	7.5	1.83	46.5	1.57	40	0.46	11.6	1.77	45	3.54	89.9	1.67	42.4	3.70	94.0
110-6	5.06	128.5	4.62	117.3	0.331	8.4	2.27	57.5	1.97	50	0.68	17.2	1.77	45	4.33	110.0	2.13	54.1	4.53	121.2
132-6	5.54	140.7	5.10	129.7	0.331	8.4	2.75	69.9	2.36	60	0.38	9.7	1.77	45	5.20	132.1	2.79	70.9	5.47	138.9
158-6	6.58	167.0	6.02	152.9	0.441	11.2	3.02	76.7	2.76	70	0.50	12.7	2.17	55	6.22	158.0	3.31	84.1	6.50	165.1
185-6	8.15	207.2	7.53	191.2	0.551	14.0	3.88	98.5	3.15	80	1.23	31.2	2.56	65	7.28	184.9	3.74	95.0	7.60	193.0
202-6	8.76	222.5	8.06	204.7	0.610	15.5	4.01	101.9	3.53	90	1.00	25.4	2.95	75	7.95	201.9	4.25	108.0	8.27	210.1
228-6	10.06	255.6	9.28	235.7	0.689	17.5	4.68	118.9	3.94	100	1.40	35.6	3.35	85	8.98	228.1	4.84	122.9	9.29	236.0
255-6	12.29	312.2	11.27	286.3	0.807	20.5	5.57	141.5	4.52	115	2.23	56.6	3.94	100	10.04	255.0	5.30	134.6	10.35	262.9
278-6	12.31	312.7	11.29	286.8	0.835	21.2	5.53	140.5	4.91	125	1.47	37.3	4.13	105	10.95	278.1	5.99	152.1	11.26	286.0
302-6	13.93	353.8	12.81	325.6	0.961	24.4	6.40	162.6	5.31	135	2.19	55.6	4.53	115	11.88	301.8	6.49	164.8	12.20	309.9
325-6	13.62	346.0	12.52	318.0	1.020	16.0	8.74	222.0	5.71	145	1.10	28.0	4.53	115	12.80	325.0	6.85	14.0	13.11	333.0
345-6	14.57	370.0	13.39	340.0	1.110	28.2	9.28	235.6	6.10	155	1.18	30.0	4.92	125	13.58	345.0	7.32	186.0	13.58	345.0
380-6	16.06	408.0	14.72	374.0	1.260	32.0	10.08	256.0	6.69	170	1.34	34.0	5.51	140	14.96	380.0	8.03	204.0	15.35	390.0
410-6	17.44	443.0	15.94	405.0	1.310	33.2	10.97	278.6	7.28	185	1.38	35.0	5.91	150	16.14	410.0	9.13	232.0	16.14	410.0
440-6	18.51	470.0	16.85	428.0	1.430	36.4	11.39	289.2	7.68	195	1.50	38.0	6.50	165	17.32	440.0	9.17	233.0	17.32	440.0

- Notes: ■ 7 indicates: BSE is the distance between shaft ends and is a variable parameter.
 ■ Metric dimensions are rounded to the nearest 'mm' except where otherwise shown.
 ■ Customer is responsible for ensuring there is enough room between the coupling and equipment to install the bolts and properly torque them with a torque wrench. Additional shaft length may be required. See Disc Coupling Worksheet, page D-8 item 5.
 ■ ID1 – ID2 Dimensional Data on page D-20.