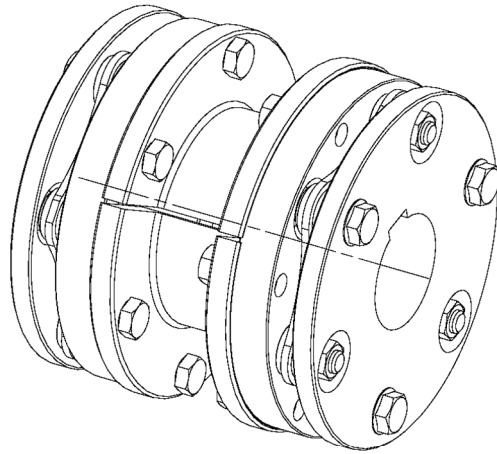




# SXCS-SXCST Series Disc Coupling

## Close Coupled SXCST Disc Coupling.

- For applications where the overall shaft to shaft spacing is minimal
- The spacer is horizontally split, allowing maintenance of the coupling without moving the hubs or the connected equipment
- The split spacer mounting bolts are located inside the flanges for ease of installation
- The hubs are mounted inside the split spacer



## Performance Data Inch

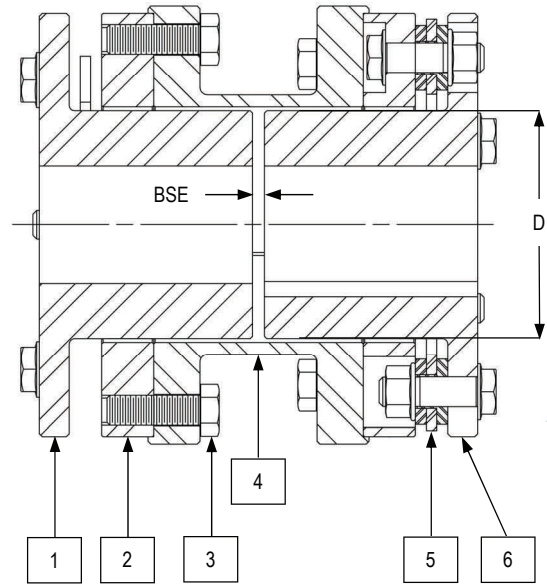
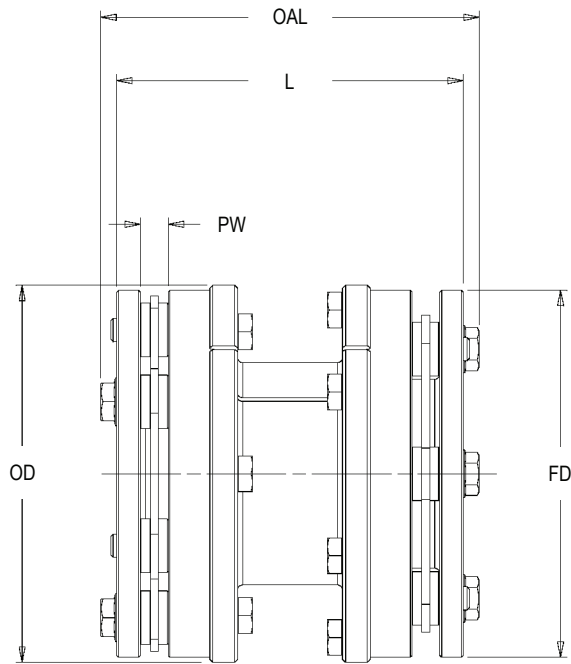
Size	Nominal Torque in-lbs	Peak Torque in-lbs	Maximum <sup>1</sup> Speed Unbalanced RPM	Maximum <sup>2</sup> Speed Balanced RPM	Max <sup>3</sup> Bore in	Weight <sup>4</sup> lbs	Axial <sup>5</sup> Misalignment ±ΔKa in
<b>090-6</b>	2,100	4,200	9,100	22,700	1.125	4	0.059
<b>110-6</b>	5,100	10,200	7,200	18,000	1.500	4	0.083
<b>132-6</b>	9,700	19,500	5,840	14,600	1.937	8	0.102
<b>158-6</b>	17,700	35,400	4,920	12,300	2.312	13	0.122
<b>185-6</b>	29,200	58,400	4,200	10,500	2.562	22	0.146
<b>202-6</b>	40,700	81,400	3,840	9,600	2.937	33	0.150
<b>228-6</b>	61,950	123,900	3,400	8,500	3.312	46	0.165
<b>255-6</b>	90,300	180,600	3,080	7,700	3.625	60	0.185
<b>278-6</b>	125,700	251,400	2,800	7,000	4.125	79	0.205
<b>302-6</b>	177,000	354,000	2,560	6,400	4.500	101	0.224

## Performance Data Metric

Size	Nominal Torque Nm	Peak Torque Nm	Maximum <sup>1</sup> Speed Unbalanced RPM	Maximum <sup>2</sup> Speed Balanced RPM	Max <sup>3</sup> Bore mm	Weight <sup>4</sup> kg	Axial <sup>5</sup> Misalignment ±ΔKa mm
<b>090-6</b>	240	480	9,100	22,700	31	1.7	1.5
<b>110-6</b>	575	1,150	7,200	18,000	39	1.8	2.1
<b>132-6</b>	1,100	2,200	5,840	14,600	50	3.8	2.6
<b>158-6</b>	2,000	4,000	4,920	12,300	60	5.8	3.1
<b>185-6</b>	3,300	6,600	4,200	10,500	68	10.0	3.7
<b>202-6</b>	4,600	9,200	3,840	9,600	75	15.0	3.8
<b>228-6</b>	7,000	14,000	3,400	8,500	85	21.0	4.2
<b>255-6</b>	10,200	20,400	3,080	7,700	95	27.0	4.7
<b>278-6</b>	14,200	28,400	2,800	7,000	105	36.0	5.2
<b>302-6</b>	20,000	40,000	2,560	6,400	115	46.0	5.7



# SXCST Series Disc Coupling



- 1 - SXC Hub
- 2 - SXCST Mounting Ring
- 3 - SXCST Mounting Bolts
- 4 - SXCST Split Spacer
- 5 - Disc Pack Kit & Hardware
- 6 - SXC Hub

## SXCST-6 Series Dimensional Data

Size	OAL		L		PW		OD		FD		D		BSE <sup>6</sup>	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
<b>090-6</b>	3.884	98.7	3.596	91.3	0.295	7.5	3.70	94.0	3.54	89.9	1.67	42.4	0.456	11.6
<b>110-6</b>	5.050	128.3	4.617	117.3	0.331	8.4	4.53	121.2	4.33	110.0	2.13	54.1	0.677	17.2
<b>132-6</b>	5.533	140.5	5.100	129.5	0.331	8.4	5.47	138.9	5.20	132.1	2.79	70.9	0.380	9.7
<b>158-6</b>	6.571	166.9	6.020	152.9	0.441	11.2	6.50	165.1	6.22	158.0	3.31	84.1	0.500	12.7
<b>185-6</b>	8.160	207.3	7.530	191.3	0.551	14.0	7.60	193.0	7.28	184.9	3.74	95.0	1.230	31.2
<b>202-6</b>	8.770	222.8	8.059	204.7	0.610	15.5	8.27	210.1	7.95	201.9	4.25	108.0	0.999	25.4
<b>228-6</b>	10.067	255.7	9.280	235.7	0.689	17.5	9.29	236.0	8.98	228.1	4.84	122.9	1.400	35.6
<b>255-6</b>	12.260	312.2	11.270	286.3	0.806	20.5	10.35	262.9	10.04	255.0	5.30	134.6	2.230	56.6
<b>278-6</b>	12.314	312.8	11.290	286.8	0.835	21.2	11.26	286.0	10.95	278.1	5.99	152.1	1.470	37.3
<b>302-6</b>	13.581	345.0	12.808	325.3	0.961	24.4	12.20	309.9	11.88	301.8	6.49	164.8	2.188	55.6

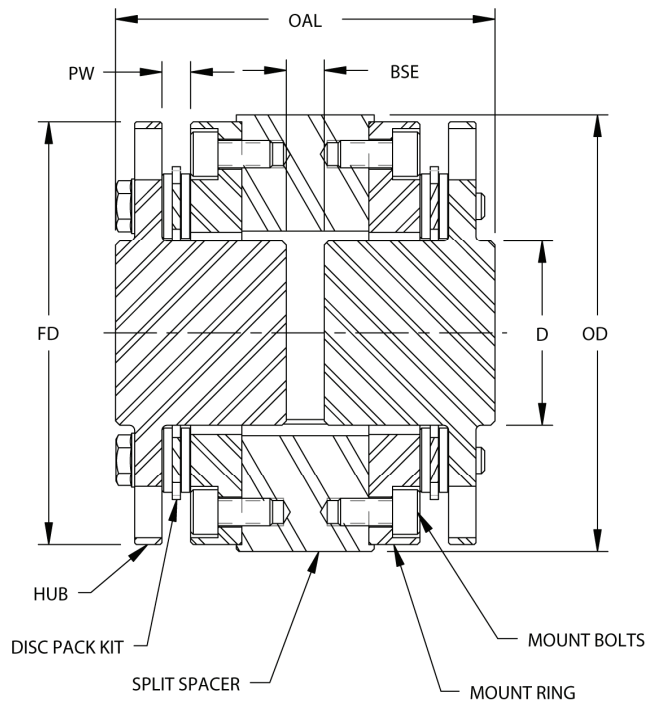
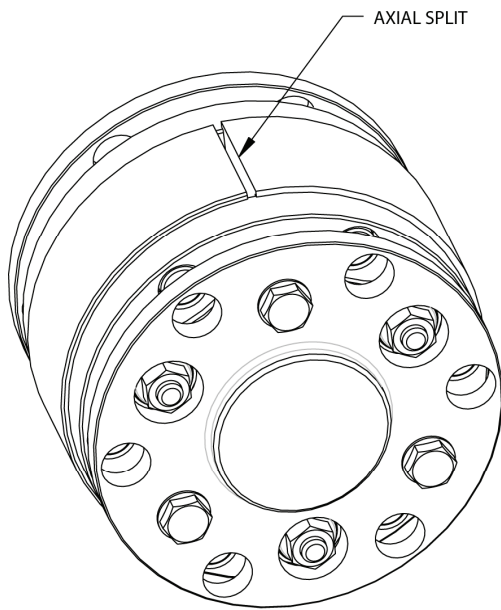
1. Operating speed must be equal or less than permissible speed. Permissible speeds could be limited by the weight and critical speed of the spacer.
2. For higher speeds consult Lovejoy application engineering.
3. The maximum bores shown are for cylindrical shafts with ANSI/AGMA 9002-B04 Preferred Standard for inch Bores and Keyways and ANSI/AGMA 9112-A04 Standard for metric Bores and Keyways .
4. Weight of complete coupling with BSE minimum dimension and maximum bore.
5. The value for axial misalignment is given for two complete disc packs.
6. The BSE dimension is the minimum distance between shaft ends and is a variable parameter.



# SXCS Series Disc Coupling

## Close Coupled SXCS Disc Coupling.

- For applications where the overall shaft to shaft spacing is minimal
- The spacer is horizontally split, allowing maintenance of the coupling without moving the hubs or the connected equipment
- The split spacer mounting bolts are located outside the flanges
- The hubs are mounted inside the split spacer

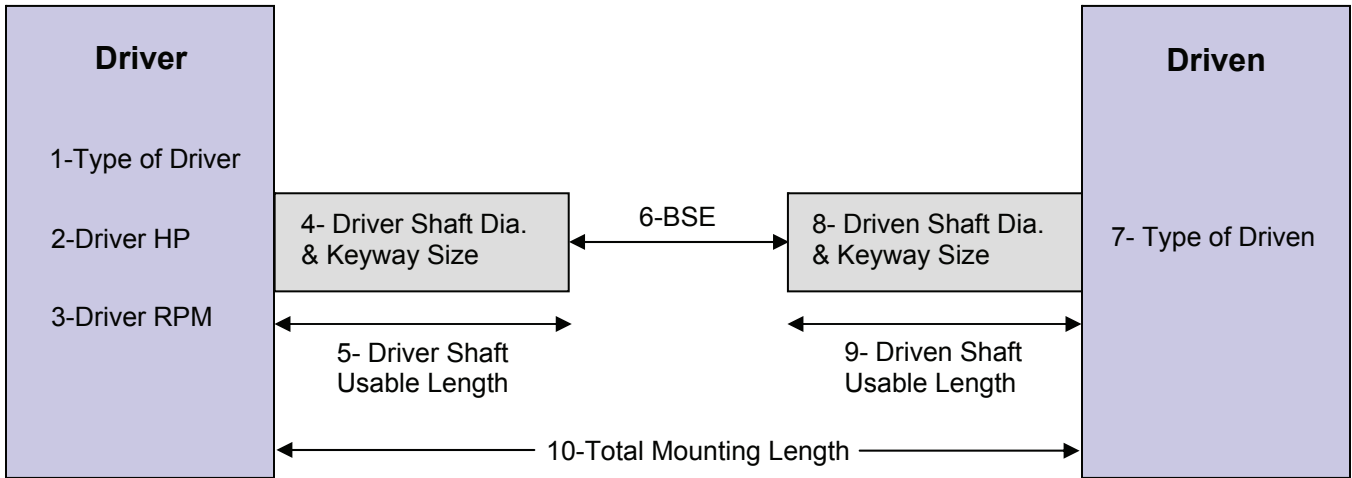


## SXCS-6 Series Dimensional Data

Size	OAL		PW		OD		FD		D		BSE <sup>6</sup>	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
<b>090-6</b>	3.536	89.8	0.295	7.5	4.09	103.1	3.94	100.1	1.67	42.4	0.39	9.9
<b>110-6</b>	4.375	111.3	0.331	8.4	5.04	128.0	4.88	124.0	2.13	54.1	0.44	11.2
<b>132-6</b>	5.080	129.0	0.331	8.4	5.87	149.1	5.71	145.0	2.79	70.9	0.36	9.1
<b>158-6</b>	5.999	152.1	0.441	11.2	6.89	175.0	6.63	170.9	3.31	84.1	0.47	11.9
<b>185-6</b>	6.875	174.8	0.551	14.0	7.83	198.9	7.68	195.1	3.74	95.0	0.58	14.7
<b>202-6</b>	7.720	196.1	0.610	15.5	8.58	217.9	8.43	214.1	4.25	108.0	0.64	16.3
<b>228-6</b>	8.600	218.4	0.689	17.5	9.72	246.9	9.57	243.1	4.84	122.9	0.72	18.3
<b>255-6</b>	10.270	260.9	0.806	20.5	10.94	277.9	10.79	274.1	5.30	134.6	1.21	30.7
<b>278-6</b>	10.710	272.0	0.835	21.2	11.73	297.9	11.58	294.1	5.99	152.1	0.87	22.1
<b>302-6</b>	11.720	297.7	0.961	24.4	13.03	331.0	12.88	327.2	6.49	164.8	1.08	27.4

6. The BSE dimension is the minimum distance between shaft ends and is a variable parameter.

# SXCS-SXCST DISC Coupling Selection Guide



1. **Type of Driver** \_\_\_\_\_
2. **Driver HP** \_\_\_\_\_
3. **Driver RPM** \_\_\_\_\_
4. **Driver Shaft Diameter** \_\_\_\_\_ **Keyway Size** \_\_\_\_\_  
(Specify Clearance or Interference Fit & Set Screw or No Set Screw)
5. **Driver Usable Shaft Length** \_\_\_\_\_  
(Measure from end of shaft to any obstruction)
6. **Distance Between Shaft Ends (BSE)** \_\_\_\_\_
7. **Type of Driven** \_\_\_\_\_
8. **Driven Shaft Diameter** \_\_\_\_\_ **Keyway Size** \_\_\_\_\_  
(Specify Clearance or Interference Fit & Set Screw or No Set Screw)
9. **Driven Usable Shaft Length** \_\_\_\_\_  
(Measure from end of shaft to any obstruction)
10. **Total Mounting Length** \_\_\_\_\_  
(Advise of any possible obstruction such as piping, I-beams, guards, etc.)

**Send to Lovejoy Application Engineering Fax: 800-446-0878**

For additional information contact Lovejoy Application Engineering @ 630-852-0500

**Customer:** \_\_\_\_\_ **Contact:** \_\_\_\_\_

**Location:** \_\_\_\_\_

**Tel:** \_\_\_\_\_ **Fax:** \_\_\_\_\_ **E-Mail:** \_\_\_\_\_

**Lovejoy, Inc.**  
**World Headquarters**  
 2655 Wisconsin Avenue  
 Downers Grove, IL 60515  
 630-852-0500  
 630-852-2120 Fax  
 info@lovejoy-inc.com



www.lovejoy-inc.com

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