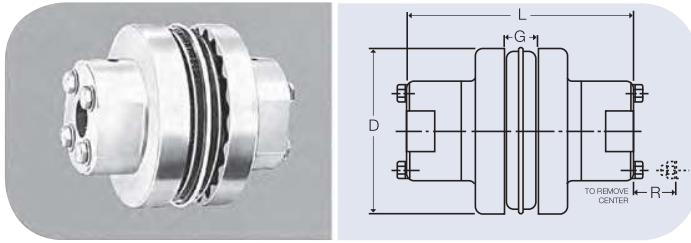


Type SC Spacer Couplings BTS

Conventional Spacer Design



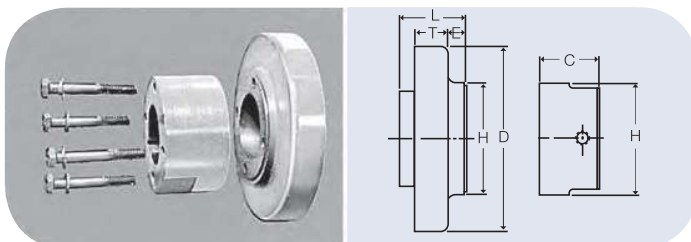
The table below shows assembled dimensions of Sure-Flex Type SC Spacer Couplings. For dimensions of separate components, refer to page F1 — 15.

Coupling Size	Required Distance Between Shafts	Use Flange No.	Use Hub No.	Max. Bore Std. KS	Dimensions				Wt. (lbs.) ■
					D	L ⁽²⁾	G	R	
4JSC	3-1/2	4JSC35	-	1-1/8 ⁽¹⁾	2.460	5-5/8	5/8	-	2.7
5SC	3-1/2	5SC35	5SCH	1-1/8	3.250	5-5/8	3/4	9/16	4.5
6SC	3-1/2	6SC35	6SCH-6SCHS	1-3/8	4.000	5-7/8	7/8	3/4	7.3
	4-3/8	6SC44	6SCH-6SCHS	1-3/8	4.000	6-3/4	7/8	3/4	8.1
7SC	5	6SC50	6SCH-6SCHS	1-3/8	4.000	7-3/8	7/8	3/4	8.7
	3-1/2	7SC35	7SCH-7SCHS	1-5/8	4.625	6-3/8	1	5/8	9.9
	4-3/8	7SC44	7SCH-7SCHS	1-5/8	4.625	7-1/4	1	5/8	10.8
8SC	5	7SC50	7SCH-7SCHS	1-5/8	4.625	7-7/8	1	5/8	11.4
	3-1/2	8SC35	8SCH-8SCHS	1-7/8	5.450	6-7/8	1-1/8	13/16	15.2
	4-3/8	8SC44	8SCH-8SCHS	1-7/8	5.450	7-3/4	1-1/8	13/16	16.4
9SC	5	8SC50	8SCH-8SCHS	1-7/8	5.450	8-3/8	1-1/8	1-3/16	17.4
	7-3/4	8SC50-10	10SCH-10SCHS	2-3/8	5.450	9-5/8	1-1/8	1-3/16	27.2
	3-1/2	9SC35	9SCH-9SCHS	2-1/8	6.350	7-1/2	1-7/16	1-1/16	18.6
	4-3/8	9SC44	9SCH-9SCHS	2-1/8	6.350	8-1/4	1-7/16	1-1/16	22.2
10SC	5	9SC50	9SCH-9SCHS	2-1/8	6.350	8-7/8	1-7/16	1-1/16	23.2
	7	9SC50-11	11SCH-11SCHS	2-7/8	6.350	10-3/8	1-7/16	1-3/16	40.4
	7-3/4	9SC70-11	11SCH-11SCHS	2-7/8	6.350	12-3/8	1-7/16	1-3/16	48.2
	10	9SC78-11	11SCH-11SCHS	2-7/8	6.350	13-1/8	1-7/16	1-3/16	51.0
11SC	4-3/4	10SC48	10SCH-10SCHS	2-3/8	7.500	9-3/8	1-5/8	1-3/16	37.6
	5	10SC50	10SCH-10SCHS	2-3/8	7.500	9-5/8	1-5/8	1-3/16	38.4
	7	10SC70-13	13SCH-13SCHS	3-3/8	7.500	13-5/8	1-5/8	1-7/8	72.0
	7-3/4	10SC78-13	13SCH-13SCHS	3-3/8	7.500	14-3/8	1-5/8	1-7/8	76.0
12SC	10	10SC100-13	13SCH-13SCHS	3-3/8	7.500	16-5/8	1-5/8	1-7/8	88.0
	4-3/4	11SC48	11SCH-11SCHS	2-7/8	8.625	10-5/16	1-7/8	1-3/16	54.5
	5	11SC50	11SCH-11SCHS	2-7/8	8.625	10-3/8	1-7/8	1-3/16	54.7
	7	11SC70-14	14SCH	3-7/8	8.625	14-5/8	1-7/8	2	86.1
13SC	7-3/4	11SC78-14	14SCH	3-7/8	8.625	15-3/8	1-7/8	2	90.3
	10	11SC100-14	14SCH	3-7/8	8.625	17-5/8	1-7/8	2	102.7
	7	12SC70	12SCH-12SCHS	2-7/8	10.000	12-7/8	2-5/16	1-1/2	88.1
	7-3/4	12SC70-14	14SCH	3-7/8	10.000	14-5/8	2-5/16	2	99.1
14SC	10	12SC78	12SCH-12SCHS	2-7/8	10.000	13-5/8	2-5/16	1-1/2	91.9
	7-3/4	12SC78-14	14SCH	3-7/8	10.000	15-3/8	2-5/16	2	103.3
13SC	7-3/4	13SC78	13SCH-13SCHS	3-3/8	11.750	14-3/8	2-11/16	1-7/8	129.6
14SC	7-3/4	14SC78	14SCH	3-7/8	13.875	15-3/8	3-1/4	2	179.9

■ Approximate weight for completely assembled spacer coupling.

(1) 4JSC35 x 1-1/8 has shallow keyseat. (2) "L" dimension and weight will change if one or two short (HS) hubs used.

Note: Refer to page F1 — 15 to order — specify components separately.



TYPE SC FLANGES AND HUBS

Tables on page F1 — 15 provide dimensional information for flanges and hubs used for Spacer Couplings. For assembled dimensions, see table above. Any of the sleeves shown on page F1 — 5 may be used.

Type SC Flanges And Hubs BTS

Conventional Spacer Design

(ILLUSTRATION AND DIMENSIONAL DRAWINGS SHOWN AT BOTTOM OF PAGE F1 – 14.)

Coupling Size	Flange No.	For Distance Between Shafts*	For Hub	Dimensions					Wt. (lbs.) ■
				D	E	H	L	T	
4JSC	4JSC35	3-1/8	-	2.460	2-1/16	2	2-1/2	7/16	1.3
5SC	5SC35	3-1/2	5SCH	3.250	51/64	2	1-11/16	19/32	1.3
6SC	6SC35	3-1/2	6SCH-6SCHS	4.000	19/32	2-1/2	1-5/8	23/32	2.0
	6SC44	4-3/8	6SCH-6SCHS	4.000	1-1/32	2-1/2	2-1/16	23/32	2.4
	6SC50	5	6SCH-6SCHS	4.000	1-11/32	2-1/2	2-3/8	23/32	2.7
7SC	7SC35	3-1/2	7SCH-7SCHS	4.625	15/32	2-13/16	1-5/8	25/32	2.5
	7SC44	4-3/8	7SCH-7SCHS	4.625	29/32	2-13/16	2-1/16	25/32	3.0
	7SC50	5	7SCH-7SCHS	4.625	1-7/32	2-13/16	2-3/8	25/32	3.3
8SC	8SC35	3-1/2	8SCH-8SCHS	5.450	9/32	3-1/4	1-5/8	29/32	3.7
	8SC35-10	3-1/2	10SCH-10SCHS	5.450	9/32	4-3/8	1-5/8	29/32	3.5
	8SC44	4-3/8	8SCH-8SCHS	5.450	23/32	3-1/4	2-1/16	29/32	4.3
	8SC50	5	8SCH-8SCHS	5.450	1-1/32	3-1/4	2-3/8	29/32	4.8
	8SC50-10	5	10SCH-10SCHS	5.450	1-1/32	4-3/8	2-3/8	29/32	5.5
9SC	9SC35	3-1/2	9SCH-9SCHS	6.350	1/16	3-5/8	1-11/16	1-1/32	4.1
	9SC44	4-3/8	9SCH-9SCHS	6.350	7/16	3-5/8	2-1/16	1-1/32	5.9
	9SC50	5	9SCH-9SCHS	6.350	3/4	3-5/8	2-3/8	1-1/32	6.4
	9SC50-11	5	11SCH-11SCHS	6.350	3/4	5-1/4	2-3/8	1-1/32	7.0
	9SC70-11	7	11SCH-11SCHS	6.350	1-3/4	5-1/4	3-3/8	1-1/32	10.9
	9SC78-11	7-3/4	11SCH-11SCHS	6.350	2-1/8	5-1/4	3-3/4	1-1/32	12.3
10SC	10SC48	4-3/4	10SCH-10SCHS	7.500	11/32	4-3/8	2-1/4	1-7/32	9.8
	10SC50	5	10SCH-10SCHS	7.500	15/32	4-3/8	2-3/8	1-7/32	10.2
	10SC70-13	7	13SCH-13SCHS	7.500	1-15/32	6-1/8	3-3/8	1-7/32	14.5
	10SC78-13	7-3/4	13SCH-13SCHS	7.500	1-27/32	6-1/8	3-3/4	1-7/32	16.5
	10SC100-13	10	13SCH-13SCHS	7.500	2-31/32	6-1/8	4-7/8	1-7/32	22.5
11SC	11SC48	4-3/4	11SCH-11SCHS	8.625	1/32	5-1/4	1-1/2	1-1/2	12.5
	11SC50	5	11SCH-11SCHS	8.625	1/16	5-1/4	1-9/16	1-1/2	12.6
	11SC70-14	7	14SCH	8.625	1-1/16	6-1/2	2-9/16	1-1/2	16.3
	11SC78-14	7-3/4	14SCH	8.625	1-7/16	6-1/2	2-15/16	1-1/2	18.4
	11SC100-14	10	14SCH	8.625	2-9/16	6-1/2	4-1/16	1-1/2	24.6
12SC	12SC70	7	12SCH-12SCHS	10.000	21/32	5-3/4	2-15/32	1-11/16	23.4
	12SC70-14	7	14SCH	10.000	21/32	6-1/2	2-15/32	1-11/16	21.3
	12SC78	7-3/4	12SCH-12SCHS	10.000	1-1/32	5-3/4	2-27/32	1-11/16	25.3
	12SC78-14	7-3/4	14SCH	10.000	1-1/32	6-1/2	2-27/32	1-11/16	23.4
	12SC100-14	10	14SCH	10.000	2-5/32	6-1/2	3-31/32	1-11/16	29.6
13SC	13SC78	7-3/4	13SCH-13SCHS	11.750	9/16	6-1/8	3-1/4	1-31/32	38.4
14SC	14SC78	7-3/4	14SCH	13.875	1/32	6-1/2	2-23/32	2-1/4	55.2

* Flanges can be mixed to form different Between-Shaft Dimensions. See chart page F1 – 16. ■ Approximate weight for each flange.

▲ If using 10HS hub, 7/16-14NC x 2-1/4 long capscrew needed (not furnished).

Coupling Size	Hub No.	Max. Bore	STOCK BORES *		Dimensions			Wt. (lbs.) ⑤
			Plain Bore	Bore with Standard Keyway & Set Screw	C	H	Cap Screws Furnished	
4JSC	†	1-1/8	-	5/8 – 7/8 – 1 – 1-1/8*	1-1/16	2	-	-
5SC	5SCH	1-1/8	1/2	5/8 – 3/4 – 7/8 – 1 – 1-1/8	1-3/32	2	4 – 10 x 1-1/2	.8
6SC	6SCH	1-3/8	5/8	3/4 – 7/8 – 1 – 1-1/8 – 1-1/4 – 1-3/8	1-7/32	2-1/2	4 – 1/4 x 1-3/4	1.4
	6SCHS	7/8	-	7/8	31/32	2-1/2	4 – 1/4 x 1-1/2	1.1
7SC	7SCH	1-5/8	5/8	7/8 – 1 – 1-1/8 – 1-3/8 – 1-1/2 – 1-5/8	1-15/32	2-13/16	4 – 1/4 x 1-7/8	2.0
	7SCHS	7/8	-	7/8	1-3/32	2-13/16	4 – 1/4 x 1-1/2	1.5
8SC	8SCH	1-7/8	3/4	7/8 – 1 – 1-1/8 – 1-3/8 – 1-1/2 – 1-5/8 – 1-3/4 – 1-7/8	1-23/32	3-1/4	4 – 5/16 x 2-1/4	3.2
	8SCHS	7/8	-	7/8	1-7/32	3-1/4	4 – 5/16 x 1-3/4	2.0
9SC	9SCH	2-1/8	7/8	1 – 1-1/8 – 1-3/8 – 1-1/2 – 1-5/8 – 1-3/4 – 1-7/8 – 2-1/8	1-31/32	3-5/8	4 – 3/8 x 2-3/4	4.2
	9SCHS	1-1/2	-	1-1/8	1-17/32	3-5/8	4 – 3/8 x 2-1/4	3.7
10SC	10SCH	2-3/8	1-1/8	1-5/8 – 1-7/8 – 2-1/8 – 2-3/8	2-11/32	4-3/8	4 – 7/16 x 3-1/4	7.4
	10SCHS	1-5/8	-	1-1/8	1-21/32	4-3/8	4 – 7/16 x 2-1/2	5.5
11SC	11SCH	2-7/8	1-1/8	1-7/8 – 2-1/8 – 2-3/8 – 2-7/8	2-23/32	5-1/4	4 – 1/2 x 3-1/2	12.2
	11SCHS	1-7/8	-	1-1/8 – 1-5/8	1-29/32	5-1/4	4 – 1/2 x 2-3/4	9.3
12SC	12SCH	2-7/8	1-3/8	2-1/8 – 2-3/8 – 2-7/8	2-31/32	5-3/4	4 – 5/8 x 4	16.6
	12SCHS	2-1/2	-	2-3/8	2-17/32	5-3/4	4 – 5/8 x 3-1/2	14.1
13SC	13SCH	3-3/8	1-3/8	2-3/8 – 2-7/8 – 3-3/8	3-11/32	6-1/8	4 – 5/8 x 4-1/2	19.9
	13SCHS	2-1/2	-	2-1/8 – 2-3/8	2-15/32	6-1/8	4 – 5/8 x 3-1/2	16.0
14SC	14SCH	3-7/8	1-5/8	2-3/8 – 2-7/8 – 3-3/8 – 3-7/8	3-27/32	6-1/2	4 – 5/8 x 5	24.2

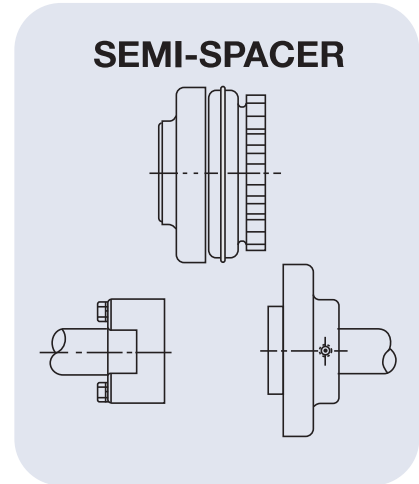
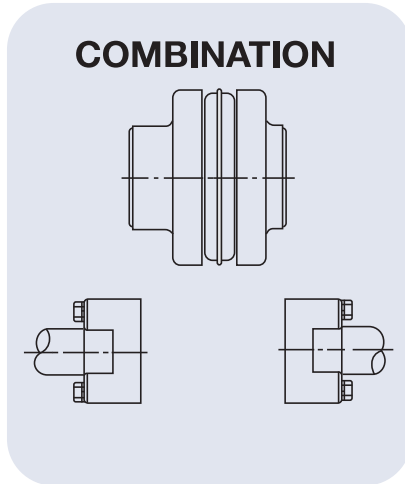
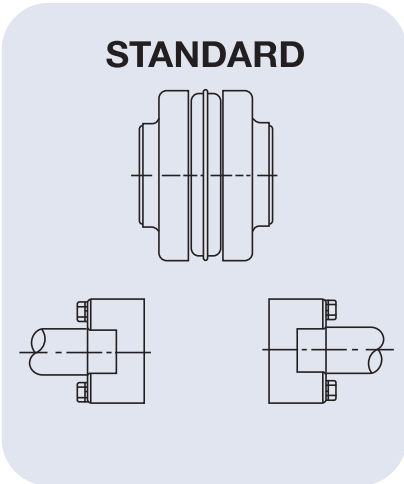
† FOR 4JSC the hub is an integral part of the flange. 4JSC x 1-1/8 has 1/4 x 1/16 shallow keyseat. ■ Approximate weight for each hub.

* See page F1 – 10 for bore tolerances F1 – 13 for std. keyseat dimensions

Between Shaft Spacings

Spacer couplings are available having the most popular between shaft dimensions. Other spacings can be achieved by mixing flanges.

The “Standard” column provides spacings using identical flanges; the “Combination” column mixes flanges; the column headed “Semi-Spacer” uses one flange that is not made for spacer coupling applications and thus does not have a detachable hub.



STANDARD	
Spacing	Use Flanges*
3-1/2	2-() SC35
4-3/8	2-() SC44
5	2-() SC50
7	2-() SC70
7-3/4	2-() SC78
10	2-() SC100

COMBINATION	
Spacing	Use Flanges*
3-15/16	SC35 & SC44
4-1/4	SC35 & SC50
4-11/16	SC44 & SC50
5-1/4	SC35 & SC70
5-5/8	SC35 & SC78
5-11/16	SC44 & SC70
6	SC50 & SC70
6-1/16	SC44 & SC78
6-3/8	SC50 & SC78
6-3/4	SC35 & SC100**
7-3/16	SC44 & SC100**
7-3/8	SC70 & SC78
7-1/2	SC50 & SC100
8-1/2	SC70 & SC100
8-7/8	SC78 & SC100

SEMI-SPACER	
Spacing	Use Flanges*
1-7/8	S & SC35
2-5/16	S & SC44
2-5/8	S & SC50
3-5/8	S & SC70
4	S & SC78
5-1/8	S & SC100

* Check individual coupling size for flange availability.
 ** Non-Stock
 Note: Other combinations available — consult factory.