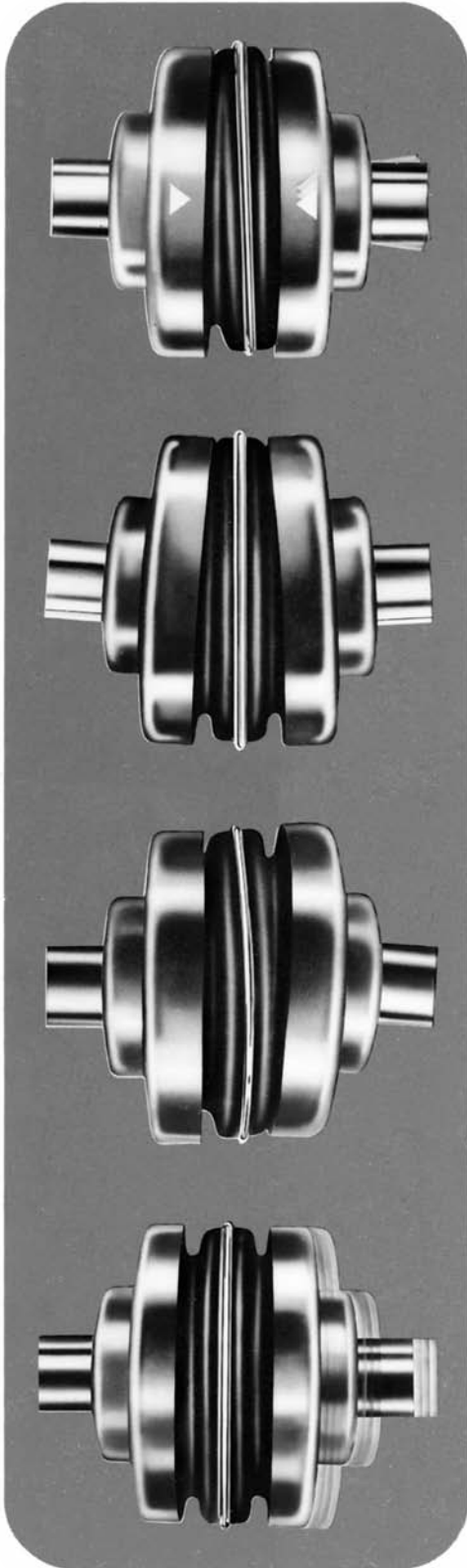


4-WAY FLEXING ACTION absorbs all types of shock, vibration and misalignment



TORSIONAL

Sure-Flex coupling sleeves have an exceptional ability to absorb torsional shock and dampen torsional vibrations. The EPDM and Neoprene sleeves wind-up approximately 15° torsionally at their rated torque. Hytrel sleeves will wind-up about 7°.

ANGULAR

The unique design of the Sure-Flex coupling's teeth allows for the absorption of angular misalignment without wear. Refer to page F1—18 for actual allowable misalignment limits. These limits allow for the alignment of the coupling using only a scale and calipers.

PARALLEL

Parallel misalignment is absorbed without wear or appreciable energy losses. The lateral flexibility of the coupling sleeve minimizes radial bearing loads normally associated with parallel misalignment. This feature also allows for easier installation by the use of components bored for slip fits without fretting corrosion occurring at the shaft. Refer to page F1—18 for parallel misalignment limits. Only a straight-edge and feeler gage are required to obtain these limits.

AXIAL

Sure-Flex couplings may be used in applications with limited axial shaft movements. The axial compressibility of the EPDM and Neoprene sleeves allows for shaft end-float without the absolute transfer of thrust loads.



EASY, QUICK INSTALLATION

Sure-Flex can be installed quickly and easily, because there are no bolts, gaskets, covers or seals. Alignment can be checked with a straightedge placed across the outside of the precision-machined flanges. No special tools are needed for installation, alignment or removal.



NO LUBRICATION, TROUBLE-FREE OPERATION

The teeth of the sleeve lock into the teeth of the flanges without clamps or screws, tightening under torque to provide smooth transmission of power. There is no rubbing action of metal against rubber to cause wear. Couplings are not affected by abrasives, dirt, or moisture. This eliminates the need for lubrication or maintenance, provides clean, dependable, quiet performance.

SURE-FLEX SELECTION

Sure-Flex couplings are selected as component parts.

1. Determine SLEEVE material and type.
Refer to pages F1—4 & 5
2. Determine coupling SIZE.
Refer to pages F1—6, 7, & 8
3. Determine FLANGES to be used.
Refer to pages F1—9 thru 16

Specify coupling components.


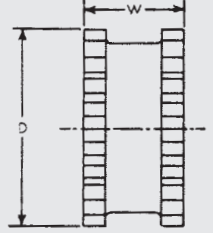


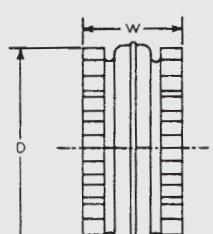

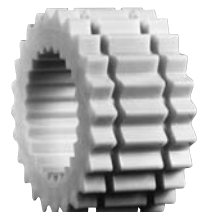
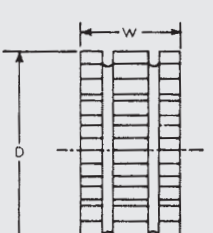

- Example #1 - Close coupled
 - Size 6, Type S flange w 1-3/8 bore
 - Size 6, Type S flange w 1" bore
 - Size 6, Solid EPDM sleeve
- Example #2 - 5" Between shaft spacer
 - Size 9, Type SC flange for #11 hub
 - Size 9, Type SC flange for #9 hub
 - Size 11 hub w 2-3/8 bore
 - Size 9 short hub w 1-1/8 bore
 - Size 9 Solid Hytrel sleeve

| PROD. NUMBER | PROD. DESCRIPTION |
|--------------|-------------------|
| 6S138 | 6Sx1-3/8 |
| 6S1 | 6Sx1 |
| 6J | 6JE |
| 9SC5011 | 9SC50-11 |
| 9SC50 | 9SC50 |
| 11SCH238 | 11SCH x 2-3/8 |
| 9SCHS118 | 9SCHS x 1-1/8 |
| 9H | 9H |

SURE-FLEX SLEEVE SELECTION



Flexible sleeves for Wood's Sure-Flex couplings are available in four materials (EPDM Neoprene, Hytrel and Urethane) and in three basic constructions. Characteristics of the materials are given on page F1—4 and the various types are shown and described here.

| | | | |
|---|--|---|---|
|  <p>JE, JN</p> |  |  <p>Types JES, JNS</p> | <p>JE-JES-JN-JNS</p> <p>J sleeves are molded EPDM rubber (E) or Neoprene (N). They are available in one-piece solid construction (JE, JN) or one-piece split construction (JES, JNS). These sleeves may be used in any Sure-Flex flange within a given size.</p> |
|  <p>E and N (Assembled)</p> |  |  <p>Types E and N (Disassembled)</p> | <p>E-N</p> <p>These sleeves are of two-piece design with a retaining ring. They are available in either EPDM (E) or Neoprene (N). They may be used with any flange within a given size. Sleeves are shown here assembled and disassembled.</p> |
|  <p>H or U</p> |  |  <p>HS</p> | <p>H-HS-U</p> <p>H (Hytrel) and U (Urethane) sleeves, designed for high-torque applications, transmit four times as much power as an equivalent EPDM or Neoprene sleeve. Available in one-piece solid construction (H or U) or two-piece split construction (HS), these can be used only with S, C and SC flanges. They cannot be used with J or B flanges or as direct replacements for EPDM or Neoprene sleeves.</p> |

DIMENSIONS (in.)

| Coupling Size | JE, JES, JN & JNS Sleeves EPDM & Neoprene | | | E and N Sleeves EPDM & Neoprene | | | H, U & HS Sleeves Hytrel & Urethane | | |
|---------------|--|--------|------------|------------------------------------|---------|------------|--|---------|------------|
| | D | W | Wt. (lbs.) | D | W | Wt. (lbs.) | D | W | Wt. (lbs.) |
| 3 | 1 7/8 | 1 | .06 | ... | ... | ... | ... | ... | ... |
| 4 | 2 5/16 | 1 1/4 | .10 | 2 5/16 | 1 1/4 | .11 | ... | ... | ... |
| 5 | 2 15/16 | 1 9/16 | .20 | 2 15/16 | 1 9/16 | .25 | ... | ... | ... |
| 6 | 3 3/4 | 1 7/8 | .40 | 3 3/4 | 1 7/8 | .49 | 3 3/4 | 1 7/8 | .44 |
| 7 | 4 11/32 | 2 3/16 | .62 | 4 11/32 | 2 3/16 | .77 | 4 11/32 | 2 3/16 | .69 |
| 8 | 5 1/16 | 2 1/2 | 1.13 | 5 1/16 | 2 1/2 | 1.4 | 5 1/16 | 2 1/2 | 1.4 |
| 9* | 6 | 3 | 1.46 | 6 | 3 | 2.0 | 6 | 3 | 1.8 |
| 10* | 7 1/16 | 3 7/16 | 2.32 | 7 1/16 | 3 7/16 | 3.2 | 7 1/16 | 3 7/16 | 2.9 |
| 11 | ... | ... | ... | 8 3/16 | 4 | 5.1 | 8 3/16 | 4 | 4.5 |
| 12 | ... | ... | ... | 9 9/16 | 4 11/16 | 8.1 | 9 9/16 | 4 11/16 | 7.3 |
| 13 | ... | ... | ... | 11 3/16 | 5 1/2 | 13.0 | 11 3/16 | 5 1/2 | 11.8 |
| 14 | ... | ... | ... | 13 3/32 | 6 1/2 | 21.1 | 13 3/32 | 6 1/2 | 19.3 |
| 16 | ... | ... | ... | 17 29/32 | 8 3/4 | 45.3 | ... | ... | ... |

The 13 and 14 Hytrel available with HS sleeves only.

*All 9J and 10J sleeves available in EPDM only.

Only sizes available in Urethane.

1. Select Load Symbol based on your driveN machine.

| Application | Load Symbol | Application | Load Symbol | Application | Load Symbol |
|---|-------------|---|-------------|--|-------------|
| AGITATORS—Paddle, Propeller, Screw | L | DEWATERING SCREEN (sewage) | M | MILLS | |
| BAND RESAW (lumber) | M | DISC FEEDER | L | Ball, Pebble, Rod, Tube, Rubber Tumbling . . H | |
| BARGE HAUL PULLER | H | DOUGH MIXER | M | Dryer and Cooler | M |
| BARKING (lumber) | H | DRAW BENCH CONVEYOR and | | MIXERS | |
| BAR SCREEN (sewage) | L | MAIN DRIVE | H | Concrete, Muller | M |
| BATCHES (textile) | L | DREDGES | | Banbury | H |
| BEATER AND PULPER (paper) | M | Cable Reel, Pumps | M | ORE CRUSHER | H |
| BENDING ROLL (metal) | M | Cutter Head Drive, Jig Drive, Screen Drive. H | | OVEN CONVEYOR | L |
| BLEACHER (paper) | L | Maneuvering and Utility Winch, Stacker . . M | | PLANER (metal or wood) | M |
| BLOWERS | | DYNAMOMETER | L | PRESSES | |
| Centrifugal, Vane | L | DRYERS (rotary) | M | Brick, Briquette Machine | H |
| Lobe | M | EDGER (lumber) | H | Notching, Paper, Punch, Printing | M |
| BOTTLING MACHINERY | L | ELEVATOR | | PUG MILL | M |
| BREW KETTLES (distilling) | L | Bucket | M | PULP GRINDER (paper) | H |
| BUCKET ELEVATOR OR CONVEYOR | M | Escalator | L | PULVERIZERS | |
| CALENDERS | | Freight, Passenger, Service, Man Lift H | | Hammermill—light duty, Roller | M |
| Calendar (paper) | M | ESCALATORS | L | Hammermill—heavy duty, Hog | H |
| Calender-super (paper), Calender (rubber) H | | EXTRUDER (metal) | H | PUMPS | |
| CANE KNIVES (sugar) | M | FANS | | Centrifugal, Axial | L |
| CARD MACHINE (textile) | H | Centrifugal | L | Gear, Lobe, Vane | M |
| CAR DUMPERS | H | Cooling Tower | H | Reciprocating—sgl. or dbl. acting, | |
| CAR PULLERS | M | Forced Draft, Large Industrial or Mine . . . M | | cylinder | * |
| CEMENT KILN | H | FEEDERS | | REEL, REWINDER (paper) CABLE | M |
| CENTRIFUGAL BLOWERS, | | Apron, Belt, Disc | L | ROD MILL | H |
| COMPRESSORS, FANS or PUMPS | L | Reciprocating | H | SAWDUST CONVEYOR | L |
| CHEMICAL FEEDERS (sewage) | L | Screw | M | SCREENS | |
| CHILLER (oil) | M | FILTER, PRESS-OIL | M | Air Washing, Water | L |
| CHIPPER (paper) | H | GENERATORS | | Rotary for coal or sand | M |
| CIRCULAR RESAW (lumber) | M | Uniform load | L | Vibrating | H |
| CLARIFIER or CLASSIFIER | L | Varying load, Hoist | M | SCREW CONVEYOR | L |
| CLAY WORKING MACHINERY | M | Welders | H | SLAB CONVEYOR (lumber) | M |
| COLLECTORS (sewage) | L | GRIT COLLECTOR (sewage) | L | SLITTERS (metal) | M |
| COMPRESSORS | | GRIZZLY | H | SOAPERS (textile) | L |
| Centrifugal | L | HAMMERMILL | | SORTING TABLE (lumber) | M |
| Reciprocating | * | Light Duty, Intermittent | M | SPINNER (textile) | M |
| Screw, Lobe | L | Heavy Duty, Continuous | H | STOKER | L |
| CONCRETE MIXERS | M | HOISTS | | SUCTION ROLL (paper) | M |
| CONVERTING MACHINE (paper) | M | Heavy Duty | H | TENTER FRAMES (textile) | M |
| CONVEYORS | | Medium Duty | M | TIRE BUILDING MACHINES | H |
| Apron, Assembly Belt, Flight, Oven, Screw . L | | JORDAN (paper) | H | TIRE & TUBE PRESS OPENER | L |
| Bucket | M | KILN, ROTARY | H | TUMBLING BARRELS | H |
| COOKERS—Brewing, Distilling, Food | L | LAUNDRY WASHER or TUMBLER | H | WASHER and THICKENER (paper) | M |
| COOLING TOWER FANS | H | LINE SHAFTS | L | WINCHES | M |
| COUCH (paper) | M | LOG HAUL (lumber) | H | WINDERS, Paper, Textile, Wire | M |
| CRANES and HOISTS | M | LOOM (textile) | M | WINDLASS | M |
| Heavy Duty Mine | H | MACHINE TOOLS, MAIN DRIVE | M | WIRE | |
| CRUSHERS—Cane (sugar), Stone or Ore . . . H | | MANGLE (textile) | L | Drawing | H |
| CUTTER—Paper | H | MASH TUBS (distilling) | L | Winding | M |
| CYLINDER (paper) | H | MEAT GRINDER | M | WOODWORKING MACHINERY | L |
| | | METAL FORMING MACHINES | M | | |

*Consult Factory

2. Determine Service Factor using Load Symbol and driveR.

| Load Symbol | L Light | M Medium | H Heavy |
|---|------------|-------------|------------|
| Standard AC Motor DC Shunt Motor *Engine, 8 or more cylinders | 1.25 | 1.5 | 2.0 |
| High Torque AC Motor DC Series & Comp. *Engine, 4-6 cylinders | 1.5 | 2.0 | 2.5 |
| *Engine, 3 cylinders or less | 2.0 | 2.5 | 3.0 |
| Turbine | 1.0 | 1.25 | 1.5 |

*On applications involving varying torque loads, design around the maximum load. Then determine the resulting service factor at minimum load. If this value is greater than 4.0, special coupling alignment will be required (see page F1—18).

Caution: Applications involving reciprocating engines and reciprocating driven devices are subject to rotational vibrational critical speeds which may destroy the coupling. The factory can determine these speeds when the rotational inertia (WR^2) of the driveR and driveN units is known.

SURE-FLEX COUPLING SIZE SELECTION (continued)



3. If coupling to the shaft of a 60 HZ AC motor, you may refer to page 8, locate the correct chart & columns for your sleeve material, motor speed and service factor; you can read the coupling size across from the motor horsepower.

Example: For 150 HP @ 1750 RPM and 1.5 Service Factor - Use #13 EPDM or Neoprene or #10 Hytrel or Urethane.

4. For other speeds, use the following formula to calculate the required coupling horsepower rating @ 100 rpm.

$$\text{HP @ 100 rpm} = \text{HP} \times \text{Service Factor} \times 100 / \text{coupling RPM}$$

5. Use the chart below to find a coupling with a HP @ 100 RPM rating which is greater than calculated above.

Example: For 5 HP @ 55 RPM and 1.25 Service Factor:

$$\text{HP @ 100} = 5 \times 1.25 \times 100 / 55 = 11.36$$

Use #12 EPDM or Neoprene or #9 Hytrel with rating of 11.4 HP.

COUPLING RATINGS

| Size | EPDM Sleeves | Neoprene Sleeves | HP @ RPM | | | | Torque (in. lbs.) | Stiffness (in. lbs./rad) | Max RPM |
|------|----------------|------------------|----------|------|------|------|-------------------|--------------------------|---------|
| | | | 100 | 1160 | 1750 | 3500 | | | |
| 3 | JE,JES | JN,JNS | 0.1 | 1.1 | 1.7 | 3.3 | 60 | 229 | 9200 |
| 4 | E,JE,JES | N,JN,JNS | 0.2 | 2.2 | 3.3 | 6.7 | 120 | 458 | 7600 |
| 5 | E,JE,JES | N,JN,JNS | 0.4 | 4.4 | 6.7 | 13 | 240 | 916 | 7600 |
| 6 | E,JE,JES | N,JN,JNS | 0.7 | 8.3 | 12.5 | 25 | 450 | 1718 | 6000 |
| 7 | E,JE,JES | N,JN,JNS | 1.2 | 13 | 20 | 40 | 725 | 2769 | 5250 |
| 8 | E,JE,JES | N,JN,JNS | 1.8 | 20 | 32 | 63 | 1135 | 4335 | 4500 |
| 9 | E,JE,JES | N | 2.9 | 33 | 50 | 100 | 1800 | 6875 | 3750 |
| 10 | E,JE,JES | N | 4.6 | 53 | 80 | 160 | 2875 | 10980 | 3600 |
| 11 | E | N | 7.2 | 83 | 126 | 252 | 4530 | 17300 | 3600 |
| 12 | E | N | 11.4 | 132 | 200 | | 7200 | 27500 | 2800 |
| 13 | E | N | 18.0 | 209 | 315 | | 11350 | 43350 | 2400 |
| 14 | E | N | 28.6 | 331 | 500 | | 18000 | 68755 | 2200 |
| 16 | E | | 75.0 | 870 | | | 47250 | 180480 | 1500 |
| Size | Hytrel Sleeves | Urethane Sleeves | HP @ RPM | | | | Torque (in. lbs.) | Stiffness (in. lbs./rad) | Max RPM |
| | | | 100 | 1160 | 1750 | 3500 | | | |
| 6 | H, HS | | 2.9 | 33 | 50 | 100 | 1800 | 10000 | 6000 |
| 7 | H, HS | | 4.6 | 53 | 80 | 160 | 2875 | 20000 | 5250 |
| 8 | H, HS | | 7.2 | 84 | 126 | 252 | 4530 | 30000 | 4500 |
| 9 | H, HS | | 11.4 | 132 | 200 | 400 | 7200 | 47500 | 3750 |
| 10 | H, HS | U | 18.0 | 209 | 315 | 630 | 11350 | 100000* | 3600 |
| 11 | H, HS | U | 28.6 | 331 | 500 | 1000 | 18000 | 125000* | 3600 |
| 12 | H, HS | U | 50.0 | 580 | 875 | | 31500 | 225000* | 2800 |
| 13 | HS | | 75.0 | 870 | 1312 | | 47268 | 368900 | 2400 |
| 14 | HS | | 115.0 | 1334 | 2013 | | 72480 | 593250 | 2200 |

* Urethane values are 220000, 350000, and 600000.



SURE-FLEX COUPLING SELECTION

EPDM or NEOPRENE SLEEVES

| 860 RPM MOTORS | | | | | | 1160 RPM MOTORS | | | | | 1750 RPM MOTORS | | | | | 3500 RPM MOTORS | | | | | | | |
|----------------|-----------------|------|-----|-----|-----|-----------------|-----------------|------|-----|-----|-----------------|-------|-----------------|------|-----|-----------------|-----|-------|-----------------|------|-----|-----|-----|
| HP | Service Factors | | | | | HP | Service Factors | | | | | HP | Service Factors | | | | | HP | Service Factors | | | | |
| | 1.0 | 1.25 | 1.5 | 2.0 | 2.5 | | 1.0 | 1.25 | 1.5 | 2.0 | 2.5 | | 1.0 | 1.25 | 1.5 | 2.0 | 2.5 | | 1.0 | 1.25 | 1.5 | 2.0 | 2.5 |
| 1/2 | 3 | 3 | 3 | 4 | 4 | 1/2 | 3 | 3 | 3 | 3 | 4 | 1/2 | 3 | 3 | 3 | 3 | 3 | 1/2 | ... | ... | ... | ... | ... |
| 3/4 | 3 | 4 | 4 | 4 | 5 | 3/4 | 3 | 3 | 4 | 4 | 4 | 3/4 | 3 | 3 | 3 | 3 | 4 | 3/4 | 3 | 3 | 3 | 3 | 3 |
| 1 | 4 | 4 | 4 | 5 | 5 | 1 | 3 | 4 | 4 | 4 | 5 | 1 | 3 | 3 | 3 | 4 | 4 | 1 | 3 | 3 | 3 | 3 | 3 |
| 1 1/2 | 4 | 5 | 5 | 5 | 6 | 1 1/2 | 4 | 4 | 5 | 5 | 5 | 1 1/2 | 3 | 4 | 4 | 4 | 5 | 1 1/2 | 3 | 3 | 3 | 3 | 4 |
| 2 | 5 | 5 | 5 | 6 | 6 | 2 | 4 | 5 | 5 | 5 | 6 | 2 | 4 | 4 | 4 | 5 | 5 | 2 | 3 | 3 | 3 | 4 | 4 |
| 3 | 5 | 6 | 6 | 6 | 7 | 3 | 5 | 5 | 6 | 6 | 6 | 3 | 4 | 5 | 5 | 5 | 6 | 3 | 3 | 4 | 4 | 4 | 5 |
| 5 | 6 | 6 | 7 | 7 | 8 | 5 | 6 | 6 | 6 | 7 | 7 | 5 | 5 | 5 | 6 | 6 | 6 | 5 | 4 | 4 | 5 | 5 | 5 |
| 7 1/2 | 7 | 7 | 8 | 8 | 9 | 7 1/2 | 6 | 7 | 7 | 8 | 8 | 7 1/2 | 6 | 6 | 6 | 7 | 7 | 7 1/2 | 5 | 5 | 5 | 6 | 6 |
| 10 | 7 | 8 | 8 | 9 | 9 | 10 | 7 | 7 | 8 | 8 | 9 | 10 | 6 | 6 | 7 | 7 | 8 | 10 | 5 | 5 | 6 | 6 | 6 |
| 15 | 8 | 9 | 9 | 10 | 10 | 15 | 8 | 8 | 9 | 9 | 10 | 15 | 7 | 7 | 8 | 8 | 9 | 15 | 6 | 6 | 6 | 7 | 7 |
| 20 | 9 | 9 | 10 | 10 | 11 | 20 | 8 | 9 | 9 | 10 | 10 | 20 | 7 | 8 | 8 | 9 | 9 | 20 | 6 | 6 | 7 | 7 | 8 |
| 25 | 9 | 10 | 10 | 11 | 11 | 25 | 9 | 9 | 10 | 10 | 11 | 25 | 8 | 8 | 9 | 9 | 10 | 25 | 6 | 7 | 7 | 8 | 8 |
| 30 | 10 | 10 | 11 | 11 | 12 | 30 | 9 | 10 | 10 | 11 | 11 | 30 | 8 | 9 | 9 | 10 | 10 | 30 | 7 | 7 | 8 | 8 | 9 |
| 40 | 10 | 11 | 11 | 12 | 12 | 40 | 10 | 10 | 11 | 11 | 12 | 40 | 9 | 9 | 10 | 10 | 11 | 40 | 7 | 8 | 8 | 9 | 9 |
| 50 | 11 | 11 | 12 | 12 | 13 | 50 | 10 | 11 | 11 | 12 | 12 | 50 | 9 | 10 | 10 | 11 | 11 | 50 | 8 | 8 | 9 | 9 | 10 |
| 60 | 11 | 12 | 12 | 13 | 13 | 60 | 11 | 11 | 12 | 12 | 13 | 60 | 10 | 10 | 11 | 11 | 12 | 60 | 8 | 9 | 9 | 10 | 10 |
| 75 | 12 | 12 | 13 | 13 | 14 | 75 | 11 | 12 | 12 | 13 | 13 | 75 | 10 | 11 | 11 | 12 | 12 | 75 | 9 | 9 | 10 | 10 | 11 |
| 100 | 12 | 13 | 13 | 14 | 14 | 100 | 12 | 12 | 13 | 13 | 14 | 100 | 11 | 11 | 12 | 12 | 13 | 100 | 9 | 10 | 10 | 11 | 11 |
| 125 | 13 | 13 | 14 | 14 | ... | 125 | 12 | 13 | 13 | 14 | 14 | 125 | 11 | 12 | 12 | 13 | 13 | 125 | 10 | 10 | 11 | 11 | ... |
| 150 | 13 | 14 | 14 | 16 | 16 | 150 | 13 | 13 | 14 | 14 | 16 | 150 | 12 | 12 | 13 | 13 | 14 | 150 | 10 | 11 | 11 | ... | ... |
| 200 | 14 | 14 | 16 | 16 | 16 | 200 | 13 | 14 | 14 | 16 | 16 | 200 | 12 | 13 | 13 | 14 | 14 | 200 | 11 | 11 | ... | ... | ... |
| 250 | 14 | 16 | 16 | 16 | 16 | 250 | 14 | 14 | 16 | 16 | 16 | 250 | 13 | 13 | 14 | 14 | ... | 250 | 11 | ... | ... | ... | ... |
| 300 | 16 | 16 | 16 | 16 | ... | 300 | 14 | 16 | 16 | 16 | 16 | 300 | 13 | 14 | 14 | ... | ... | 300 | ... | ... | ... | ... | ... |
| 350 | 16 | 16 | 16 | ... | ... | 350 | 16 | 16 | 16 | 16 | 16 | 350 | 14 | 14 | ... | ... | ... | 350 | ... | ... | ... | ... | ... |
| 400 | 16 | 16 | 16 | ... | ... | 400 | 16 | 16 | 16 | 16 | ... | 400 | 14 | 14 | ... | ... | ... | 400 | ... | ... | ... | ... | ... |
| 450 | 16 | 16 | ... | ... | ... | 450 | 16 | 16 | ... | ... | ... | 450 | 14 | ... | ... | ... | ... | 450 | ... | ... | ... | ... | ... |
| 500 | 16 | 16 | ... | ... | ... | 500 | 16 | 16 | ... | ... | ... | 500 | 14 | ... | ... | ... | ... | 500 | ... | ... | ... | ... | ... |
| 600 | 16 | ... | ... | ... | ... | 600 | 16 | ... | ... | ... | ... | 600 | ... | ... | ... | ... | ... | 600 | ... | ... | ... | ... | ... |
| 700 | ... | ... | ... | ... | ... | 700 | ... | ... | ... | ... | ... | 700 | ... | ... | ... | ... | ... | 700 | ... | ... | ... | ... | ... |
| 800 | ... | ... | ... | ... | ... | 800 | ... | ... | ... | ... | ... | 800 | ... | ... | ... | ... | ... | 800 | ... | ... | ... | ... | ... |

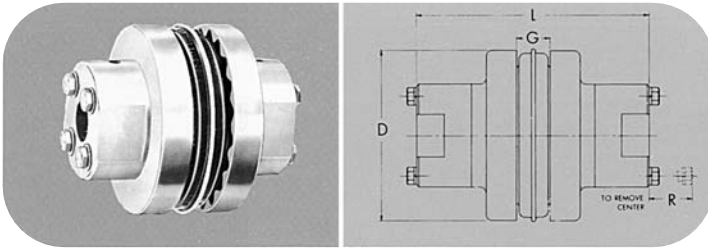
HYTREL or URETHANE SLEEVES

| 860 RPM MOTORS | | | | | | 1160 RPM MOTORS | | | | | 1750 RPM MOTORS | | | | | 3500 RPM MOTORS | | | | | | | |
|----------------|-----------------|------|-----|-----|-----|-----------------|-----------------|------|-----|-----|-----------------|-------|-----------------|------|-----|-----------------|-----|-------|-----------------|------|-----|-----|-----|
| HP | Service Factors | | | | | HP | Service Factors | | | | | HP | Service Factors | | | | | HP | Service Factors | | | | |
| | 1.0 | 1.25 | 1.5 | 2.0 | 2.5 | | 1.0 | 1.25 | 1.5 | 2.0 | 2.5 | | 1.0 | 1.25 | 1.5 | 2.0 | 2.5 | | 1.0 | 1.25 | 1.5 | 2.0 | 2.5 |
| 7 1/2 | 6 | 6 | 6 | 6 | 6 | 7 1/2 | ... | ... | ... | ... | ... | 7 1/2 | ... | ... | ... | ... | ... | 7 1/2 | ... | ... | ... | ... | ... |
| 10 | 6 | 6 | 6 | 6 | 6 | 10 | 6 | 6 | 6 | 6 | 6 | 10 | ... | ... | ... | ... | ... | 10 | ... | ... | ... | ... | ... |
| 15 | 6 | 6 | 6 | 7 | 7 | 15 | 6 | 6 | 6 | 6 | 7 | 15 | 6 | 6 | 6 | 6 | 6 | 15 | ... | ... | ... | ... | ... |
| 20 | 6 | 6 | 7 | 7 | 8 | 20 | 6 | 6 | 6 | 7 | 7 | 20 | 6 | 6 | 6 | 6 | 6 | 20 | ... | ... | ... | ... | ... |
| 25 | 6 | 7 | 7 | 8 | 8 | 25 | 6 | 6 | 7 | 7 | 8 | 25 | 6 | 6 | 6 | 6 | 7 | 25 | ... | ... | ... | ... | ... |
| 30 | 7 | 7 | 8 | 8 | 9 | 30 | 6 | 7 | 7 | 8 | 8 | 30 | 6 | 6 | 6 | 7 | 7 | 30 | 6 | 6 | 6 | 6 | 6 |
| 40 | 7 | 8 | 8 | 9 | 9 | 40 | 7 | 7 | 8 | 8 | 9 | 40 | 6 | 6 | 7 | 7 | 8 | 40 | 6 | 6 | 6 | 6 | 6 |
| 50 | 8 | 8 | 9 | 9 | 10 | 50 | 7 | 8 | 8 | 9 | 9 | 50 | 6 | 7 | 7 | 8 | 8 | 50 | 6 | 6 | 6 | 6 | 7 |
| 60 | 8 | 9 | 9 | 10 | 10 | 60 | 8 | 8 | 9 | 9 | 10 | 60 | 7 | 7 | 8 | 8 | 9 | 60 | 6 | 6 | 6 | 7 | 7 |
| 75 | 9 | 9 | 10 | 10 | 11 | 75 | 8 | 9 | 9 | 10 | 10 | 75 | 7 | 8 | 8 | 9 | 9 | 75 | 6 | 6 | 7 | 7 | 8 |
| 100 | 9 | 10 | 10 | 11 | 11 | 100 | 9 | 9 | 10 | 10 | 11 | 100 | 8 | 8 | 9 | 9 | 10 | 100 | 6 | 7 | 7 | 8 | 8 |
| 125 | 10 | 10 | 11 | 11 | 12 | 125 | 9 | 10 | 10 | 11 | 11 | 125 | 8 | 9 | 9 | 10 | 10 | 125 | 7 | 7 | 8 | 8 | 9 |
| 150 | 10 | 11 | 11 | 12 | 12 | 150 | 10 | 10 | 11 | 11 | 12 | 150 | 9 | 9 | 10 | 10 | 11 | 150 | 7 | 8 | 8 | 9 | 9 |
| 200 | 11 | 11 | 12 | 12 | 13 | 200 | 10 | 11 | 11 | 12 | 12 | 200 | 9 | 10 | 10 | 11 | 11 | 200 | 8 | 8 | 9 | 9 | 10 |
| 250 | 11 | 12 | 12 | 13 | 13 | 250 | 11 | 11 | 12 | 12 | 13 | 250 | 10 | 10 | 11 | 11 | 12 | 250 | 8 | 9 | 9 | 10 | 10 |
| 300 | 12 | 12 | 13 | 13 | 14 | 300 | 11 | 12 | 12 | 13 | 13 | 300 | 10 | 11 | 11 | 12 | 12 | 300 | 9 | 9 | 10 | 10 | 11 |
| 350 | 12 | 12 | 13 | 14 | 14 | 350 | 12 | 12 | 12 | 13 | 14 | 350 | 11 | 11 | 12 | 12 | 12 | 350 | 9 | 10 | 10 | 11 | 11 |
| 400 | 12 | 13 | 13 | 14 | 14 | 400 | 12 | 12 | 13 | 13 | 14 | 400 | 11 | 11 | 12 | 12 | 13 | 400 | 9 | 10 | 10 | 11 | 11 |
| 500 | 13 | 13 | 14 | 14 | ... | 500 | 12 | 13 | 13 | 14 | 14 | 500 | 11 | 12 | 12 | 13 | 13 | 500 | 10 | 10 | 11 | 11 | ... |
| 600 | 13 | 14 | 14 | ... | ... | 600 | 13 | 13 | 13 | 14 | ... | 600 | 12 | 12 | 13 | 13 | 14 | 600 | 10 | 11 | 11 | ... | ... |
| 700 | 14 | 14 | ... | ... | ... | 700 | 13 | 13 | 14 | 14 | ... | 700 | 12 | 12 | 13 | 14 | 14 | 700 | 11 | 11 | ... | ... | ... |
| 800 | 14 | 14 | ... | ... | ... | 800 | 13 | 14 | 14 | ... | ... | 800 | 12 | 13 | 13 | 14 | 14 | 800 | 11 | 11 | ... | ... | ... |
| 900 | 14 | ... | ... | ... | ... | 900 | 14 | 14 | 14 | ... | ... | 900 | 13 | 13 | 14 | 14 | ... | 900 | 11 | ... | ... | ... | ... |
| 1000 | ... | ... | ... | ... | ... | 1000 | 14 | 14 | ... | ... | ... | 1000 | 13 | 13 | 14 | 14 | ... | 1000 | 11 | ... | ... | ... | ... |

TYPE SC SPACER COUPLINGS

BTS - CONVENTIONAL SPACER DESIGN

BTS - CONVENTIONAL SPACER DESIGN



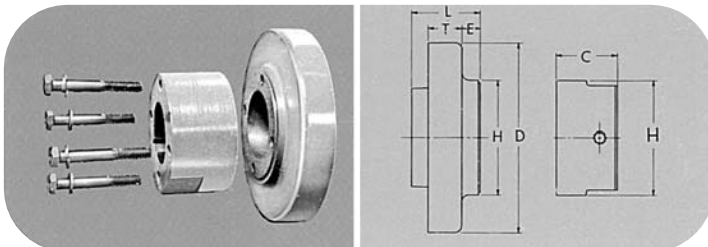
The table below shows assembled dimensions of Sure-Flex Type SC Spacer Couplings. For dimensions of separate components, refer to page F1—15.

| 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 |
| | 5 | 6SC50 | 6SCH-6SCHS | 1-3/8 | 4.000 | 7-3/8 | 7/8 | 3/4 | 8.7 |
| 7SC | 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 |
| | 5 | 7SC50 | 7SCH-7SCHS | 1-5/8 | 4.625 | 7-7/8 | 1 | 5/8 | 11.4 |
| 8SC | 3-1/2 | 8SC35 | 8SCH-8SCHS | 1-7/8 | 5.450 | 6-7/8 | 1-1/8 | 13/16 | 15.2 |
| | | 8SC35-10 | 10SCH-10SCHS | 2-3/8 | 5.450 | 8-1/8 | 1-1/8 | 13/16 | 23.2 |
| | 4-3/8 | 8SC44 | 8SCH-8SCHS | 1-7/8 | 5.450 | 7-3/4 | 1-1/8 | 13/16 | 16.4 |
| | | 8SC50 | 8SCH-8SCHS | 1-7/8 | 5.450 | 8-3/8 | 1-1/8 | 1-3/16 | 17.4 |
| 5 | 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 |
| 9SC | 4-3/8 | 9SC44 | 9SCH-9SCHS | 2-1/8 | 6.350 | 8-1/4 | 1-7/16 | 1-1/16 | 22.2 |
| | 5 | 9SC50 | 9SCH-9SCHS | 2-1/8 | 6.350 | 8-7/8 | 1-7/16 | 1-1/16 | 23.2 |
| 9SC50-11 | | 11SCH-11SCHS | 2-7/8 | 6.350 | 10-3/8 | 1-7/16 | 1-3/16 | 40.4 | |
| 7 | | 9SC70-11 | 11SCH-11SCHS | 2-7/8 | 6.350 | 12-3/8 | 1-7/16 | 1-3/16 | 48.2 |
| 10SC | 7-3/4 | 9SC78-11 | 11SCH-11SCHS | 2-7/8 | 6.350 | 13-1/8 | 1-7/16 | 1-3/16 | 51.0 |
| | 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 |
| | 7-3/4 | 10SC78-13 | 13SCH-13SCHS | 3-3/8 | 7.500 | 14-3/8 | 1-5/8 | 1-7/8 | 76.0 |
| 10 | 10SC100-13 | 13SCH-13SCHS | 3-3/8 | 7.500 | 16-5/8 | 1-5/8 | 1-7/8 | 88.0 | |
| 11SC | 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 |
| | 7-3/4 | 11SC78-14 | 14SCH | 3-7/8 | 8.625 | 15-3/8 | 1-7/8 | 2 | 90.3 |
| 12SC | 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 |
| | 7-3/4 | 12SC70-14 | 14SCH | 3-7/8 | 10.000 | 14-5/8 | 2-5/16 | 2 | 99.1 |
| | | 12SC78 | 12SCH-12SCHS | 2-7/8 | 10.000 | 13-5/8 | 2-5/16 | 1-1/2 | 91.9 |
| | | 12SC78-14 | 14SCH | 3-7/8 | 10.000 | 15-3/8 | 2-5/16 | 2 | 103.3 |
| 10 | 12SC100-14 | 14SCH | 3-7/8 | 10.000 | 17-5/8 | 2-5/16 | 2 | 115.7 | |
| 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 |
| 9SC | 8SC50-10 | 5 | 10SCH-10SCHS | 5.450 | 1-1/32 | 4-3/8 | 2-3/8 | 29/32 | 5.5 |
| | 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 |
| 10SC | 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 |
| | 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 |
| 11SC | 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 |
| | 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 |
| 12SC | 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 |
| | 12SC70 | 7 | 12SCH-12SCHS | 10.000 | 21/32 | 5-3/4 | 2-15/32 | 1-11/16 | 23.4 |
| 13SC | 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 |
| 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).

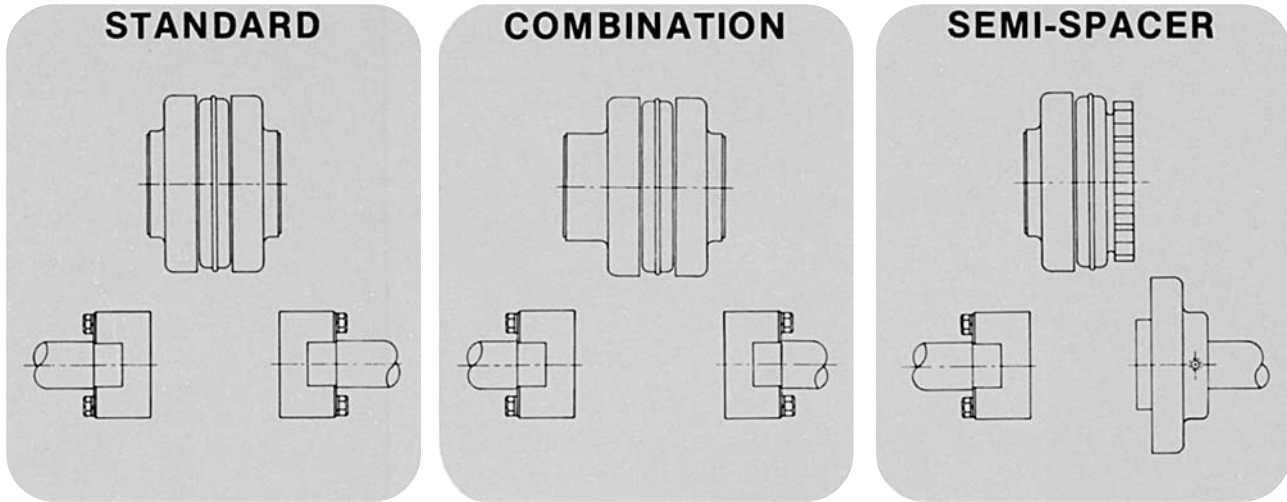
| Coupling Size | Hub No. | Max. Bore | STOCK BORES * | | Dimensions | | | Wt. (lbs.) ■ |
|---------------|---------|-----------|---------------|---|------------|---------|----------------------|--------------|
| | | | Plain Bore | Bore with Standard Keyway & Set Screw | C | H | Cap Screws Furnished | |
| 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 AVAILABLE

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 | | COMBINATION | | SEMI-SPACER | |
|----------|--------------|-------------|----------------|-------------|--------------|
| Spacing | Use Flanges* | Spacing | Use Flanges* | Spacing | Use Flanges* |
| 3-1/2 | 2-() SC35 | 3-15/16 | SC35 & SC44 | 1-7/8 | S & SC35 |
| 4-3/8 | 2-() SC44 | 4-1/4 | SC35 & SC50 | 2-5/16 | S & SC44 |
| 5 | 2-() SC50 | 4-11/16 | SC44 & SC50 | 2-5/8 | S & SC50 |
| 7 | 2-() SC70 | 5-1/4 | SC35 & SC70 | 3-5/8 | S & SC70 |
| 7-3/4 | 2-() SC78 | 5-5/8 | SC35 & SC78 | 4 | S & SC78 |
| 10 | 2-() SC100 | 5-11/16 | SC44 & SC70 | 5-1/8 | S & SC100 |
| | | 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 | | |

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

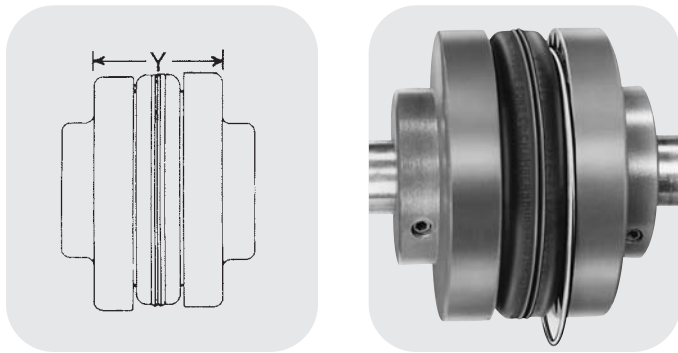
Installation Instructions

Sure-Flex flanges (outer metallic parts) and sleeves (inner elastomeric members) come in many sizes and types. First, determine the size and type of components being used. Remove all components from their boxes, and loosely assemble the coupling on any convenient surface. (Do not attempt to install the wire ring on the two-piece E or N sleeve at this time.) Also check maximum RPM values in the table against operating speed. All rubber sleeves (EPDM and Neoprene) have the same ratings for a given size and may be used interchangeably. However, because rubber and Hytrel sleeves have completely different ratings, they never should be used interchangeably.

1 Inspect all coupling components and remove any protective coatings or lubricants from bores, mating surfaces and fasteners. Remove any existing burrs, etc. from the shafts.

2 Slide one coupling flange onto each shaft, using snug-fitting keys where required. When using Type B flanges, follow the instructions furnished with the Sure-Grip bushing.

3 Position the flanges on the shafts to approximately achieve the Y dimension shown in the table. It is usually best to have an equal length of shaft extending into each flange. Move one flange to its final position. Torque fasteners to proper values. Slide the other flange far enough away to install the sleeve. With a two-piece sleeve, do not move the wire ring to its final position; allow it to hang loosely in the groove adjacent to the teeth.



4 Slide the loose flange on the shaft until the sleeve is completely seated in the teeth of each flange. (The “Y” dimension is for reference and not critical.) Secure the flange to the shaft. Different coupling sleeves require different degrees of alignment precision. Locate the alignment values for your sleeve size and type in the table.

5 Check parallel alignment by placing a straight-edge across the two coupling flanges and measuring the maximum offset at various points around the periphery of the coupling without rotating the coupling. If the maximum offset exceeds the figure shown under “Parallel” in the table, realign the shafts.

6 Check angular alignment with a micrometer or caliper. Measure from the outside of one flange to the outside of the other at intervals around the periphery of the coupling. Determine the maximum and minimum dimensions without rotating the coupling. The difference between the maximum and minimum must not exceed the figure given under “Angular” in the table. If a correction is necessary, be sure to recheck the parallel alignment.



Parallel



Angular

MAXIMUM RPM AND ALLOWABLE MISALIGNMENT

(Dimensions in inches)

| Sleeve Size | Maximum RPM | Types JE, JN, JES, JNS, E & N | | | *Type H & HS | | |
|-------------|-------------|-------------------------------|---------|--------|--------------|---------|-------|
| | | Parallel | Angular | Y | Parallel | Angular | Y |
| 3 | 9200 | .010 | .035 | 1.188 | ... | ... | ... |
| 4 | 7600 | .010 | .043 | 1.500 | ... | ... | ... |
| 5 | 7600 | .015 | .056 | 1.938 | ... | ... | ... |
| 6 | 6000 | .015 | .070 | 2.375 | .010 | .016 | 2.375 |
| 7 | 5250 | .020 | .081 | 2.563 | .012 | .020 | 2.563 |
| 8 | 4500 | .020 | .094 | 2.938 | .015 | .025 | 2.938 |
| 9 | 3750 | .025 | .109 | 3.500 | .017 | .028 | 3.500 |
| 10 | 3600 | .025 | .128 | 4.063 | .020 | .032 | 4.063 |
| 11 | 3600 | .032 | .151 | 4.875 | .022 | .037 | 4.875 |
| 12 | 2800 | .032 | .175 | 4.688 | .025 | .042 | 5.688 |
| 13 | 2400 | .040 | .195 | 6.688 | .030 | .050 | 6.625 |
| 14 | 2200 | .045 | .242 | 7.750 | .035 | .060 | 7.750 |
| 16 | 1500 | .062 | .330 | 10.250 | ... | ... | ... |

Note: Values shown above apply if the actual torque transmitted is more than 1/4 the coupling rating. For lesser torque, reduce the above values by 1/2.

*Type H and HS sleeves **should not** be used as direct replacements for EPDM or Neoprene sleeves.

7 If the coupling employs the two-piece sleeve with the wire ring, force the ring into its groove in the center of the sleeve. It may be necessary to pry the ring into position with a blunt screwdriver.

8 Install coupling guards per OSHA requirements.

CAUTION: Coupling sleeves may be thrown from the coupling assembly with substantial force when the coupling is subjected to a severe shock load or abuse.