

Flexible Couplings



Powering Your Success

TB Wood's



TB Wood's

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SURE-FLEX[®]

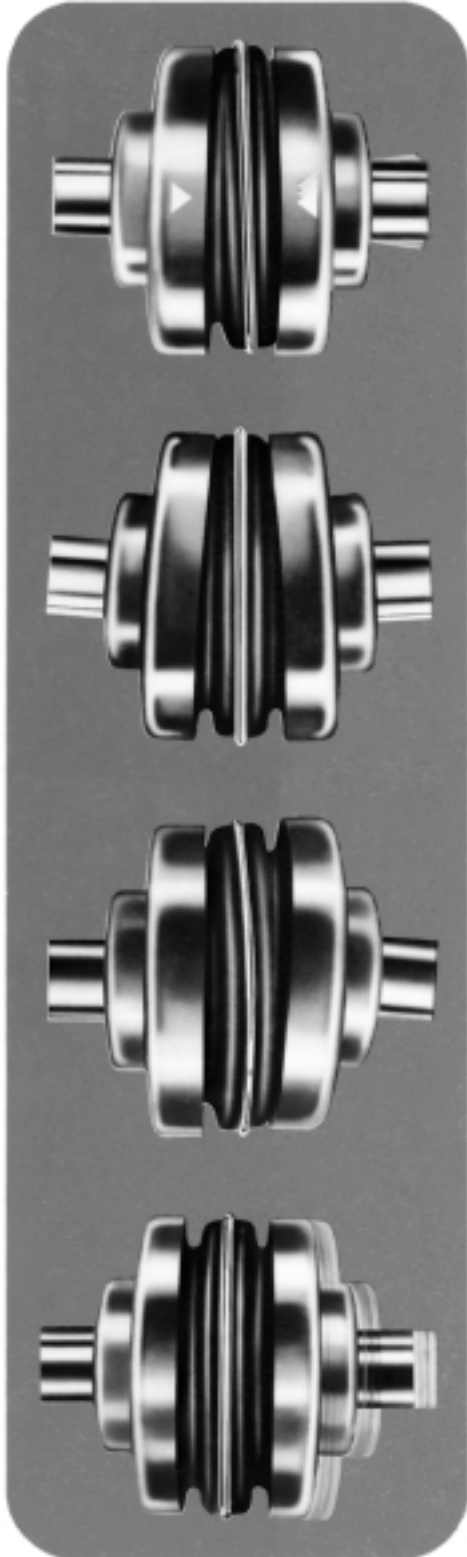
ELASTOMERIC

COUPLINGS

- **Need No Lubrication, No Maintenance**
- **Quick, Easy Installation**
- **Clean, Quiet Performance**



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	- 6Sx1-3/8
Size 6, Type S flange w 1" bore	- 6Sx1
Size 6, Solid EPDM sleeve	- 6JE
- Example #2 - 5" Between shaft spacer

Size 9, Type SC flange for #11 hub	- 9SC50-11
Size 9, Type SC flange for #9 hub	- 9SC50
Size 11 hub w 2-3/8 bore	- 11SCH x 2-3/8
Size 9 short hub w 1-1/8 bore	- 9SCHS x 1-1/8
Size 9 Solid Hytrel sleeve	- 9H



SURE-FLEX SLEEVE SELECTION

Sure-Flex Sleeves are available in four materials or compounds and various shape configurations.

	EPDM	Neoprene	Hytrel	Urethane
SHAPES AVAILABLE 1 pc, unsplit 1 pc, split 2 piece	JE JES E	JN JNS N	H — HS	U — —
TYPICAL USE	General Purpose	Oil Resist Non-flame	General Purpose	Stiffness
REL. RATING WIND-UP ANGULAR MISALIGN	1X 15° 1°	1X 15° 1°	4X 7° 1/4°	4X 3° 1/4°
TEMPERATURE (F) maximum minimum	+275° -30°	+200° -0°	+250° -65°	+200° -80°

SURE-FLEX SLEEVES

Product No.	Product Description
3J	3JE EPDM
4J	4JE EPDM
5J	5JE EPDM
6J	6JE EPDM
7J	7JE EPDM
8J	8JE EPDM
9J	9JE EPDM
10J	10JE EPDM
3JS	3JES EPDM Split
4JS	4JES EPDM Split
5JS	5JES EPDM Split
6JS	6JES EPDM Split
7JS	7JES EPDM Split
8JS	8JES EPDM Split
9JS	9JES EPDM Split
10JS	10JES EPDM Split
3JN	3JN Neoprene
4JN	4JN Neoprene
5JN	5JN Neoprene
6JN	6JN Neoprene
7JN	7JN Neoprene
8JN	8JN Neoprene
3JNS	3JNS Neoprene Split
4JNS	4JNS Neoprene Split
5JNS	5JNS Neoprene Split
6JNS	6JNS Neoprene Split
7JNS	7JNS Neoprene Split
8JNS	8JNS Neoprene Split


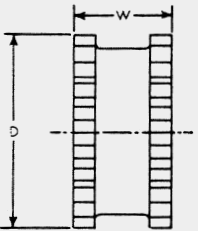


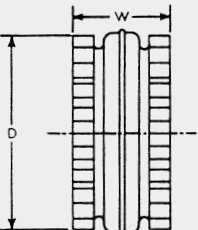

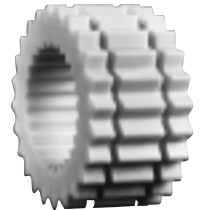
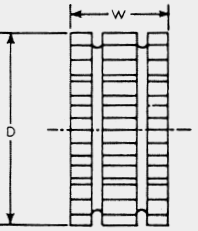

Product No.	Product Description
4	4E EPDM
5	5E EPDM
6	6E EPDM
7	7E EPDM
8	8E EPDM
9	9E EPDM
10	10E EPDM
11	11E EPDM
12	12E EPDM
13	13E EPDM
14	14E EPDM
16	16E EPDM
4N	4N Neoprene
5N	5N Neoprene
6N	6N Neoprene
7N	7N Neoprene
8N	8N Neoprene
9N	9N Neoprene
10N	10N Neoprene
11N	11N Neoprene
12N	12N Neoprene
13N	13N Neoprene
14N	14N Neoprene

Product No.	Product Description
6H	6H Hytrel
7H	7H Hytrel
8H	8H Hytrel
9H	9H Hytrel
10H	10H Hytrel
11H	11H Hytrel
12H	12H Hytrel
6HS	6HS Split Hytrel
7HS	7HS Split Hytrel
8HS	8HS Split Hytrel
9HS	9HS Split Hytrel
10HS	10HS Split Hytrel
11HS	11HS Split Hytrel
12HS	12HS Split Hytrel
13HS	13HS Split Hytrel
14HS	14HS Split Hytrel
10U	10U Urethane
11U	11U Urethane
12U	12U Urethane

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.



SURE-FLEX COUPLING SIZE SELECTION

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
Calendar-super (paper), Calendar (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)



- 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.

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

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

- 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,JN,JNS	2.9	33	50	100	1800	6875	3750
10	E,JE,JES	N,JN,JNS	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

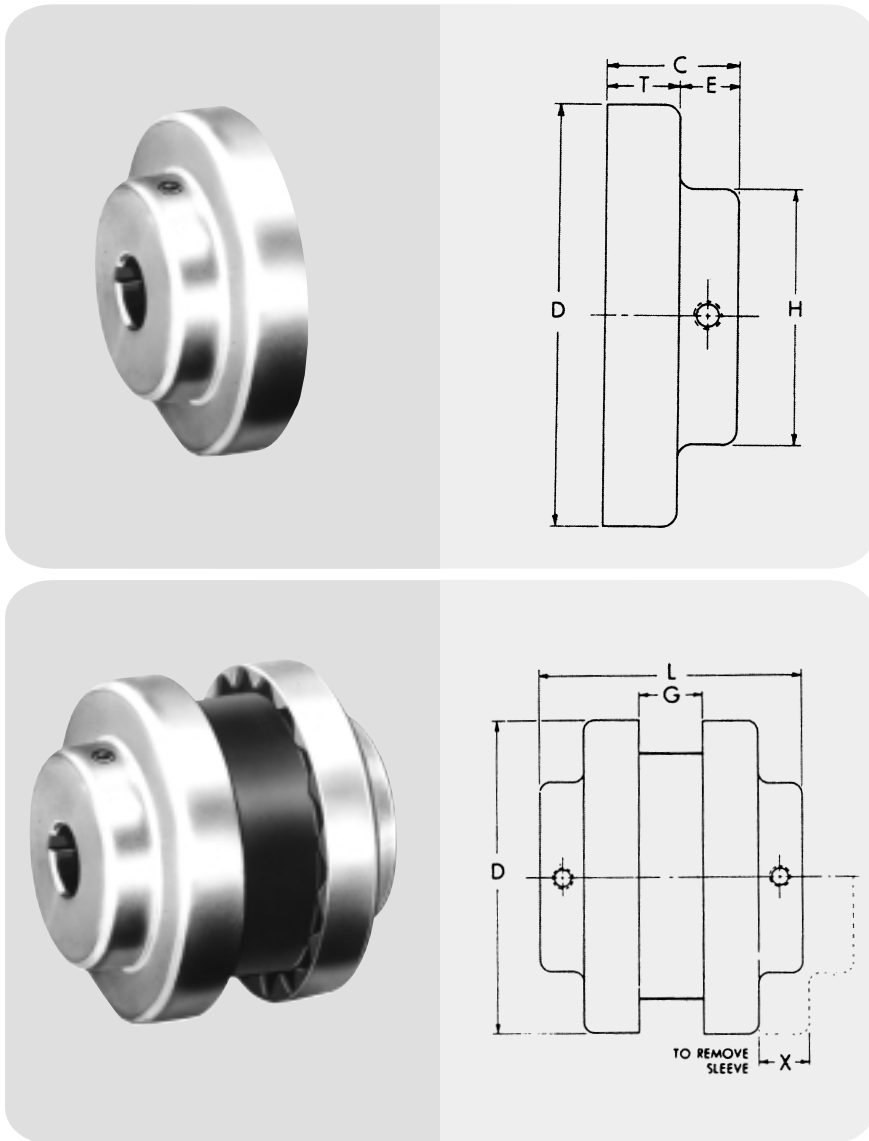
EPDM or NEOPRENE SLEEVES

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	4	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 J SURE-FLEX BTS – FOR CLOSE COUPLED APPLICATIONS



FLANGES

Type J flanges size 3 and 4 are die cast of high-strength alloy and are furnished bored-to-size for a slip fit on a standard shaft. The 4G40A zinc alloy used has a tensile strength of 41,000 psi. Sizes 5 and 6 are made of high-strength cast iron and are bored-to-size for slip fit on standard shafts. The outside diameter of the flange is machined so the surface can be used to check alignment without a special tool. Type J flanges can be used with sleeves of any construction except the Hytrel. Each flange has a keyseat and 2 setscrews.

COUPLINGS

Type J Sure-Flex Couplings are bored-to-size. Normally, they employ the one-piece JE sleeve, or the one-piece JES sleeve with saw cut to permit replacement where there is insufficient gap between shafts.

Spacing between internal flange hubs equals G. Spacing between shafts should be greater than 1/8 in. and less than L minus .85 times the sum of the two bore diameters.

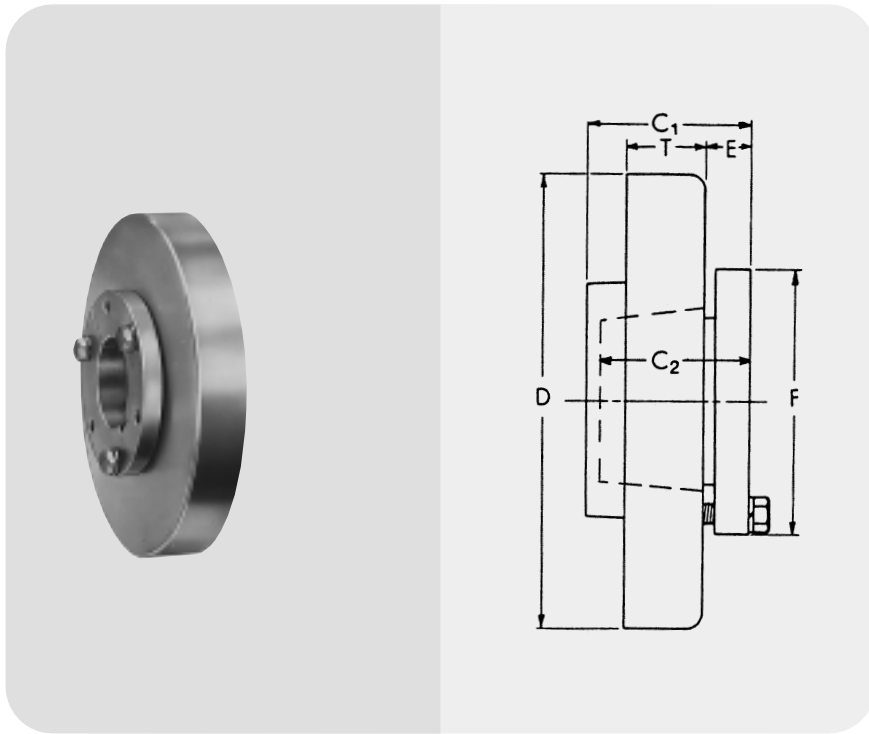
To order complete couplings, specify coupling size with flange symbol (J) giving bore and keyseat. Refer to page F1-3 to order the required coupling.

DIMENSIONS (in.)

Product No.	Dimensions								Wt. (lbs.)	STOCK BORES*																								
										(Inches)													Max Bore	Millimeters										
	C	D	E	G	H	L	T	X		3/8	1/2	5/8	3/4	7/8	15/16	1	1-1/8	1-3/16	1-1/4	1-3/8	9	11		12	14	15	16	19	20	24	25			
3J	51/64	2.062	13/32	3/8	1-1/2	1-31/32	25/64	5/8	0.3	X	X	X	X	X							7/8	X	X	X	X	X	X	X						
4J	55/64	2.460	27/64	5/8	1-5/8	2-11/32	7/16	5/8	0.4		X	X	X	X	X	X					1	...	...	X	X	X	X	X	X	X	X	X		
5J	1-3/64	3.250	29/64	3/4	1-7/8	2-27/32	19/32	59/64	0.9		O	X	X	X	X	X	X				1-1/8	...	...	...	...	...	...	...	...	...	...	...	...
6J	1-5/16	4.000	9/16	7/8	2-1/2	3-1/2	3/4	1-3/32	1.2			X	X	X	X	X	X	X	X		1-3/8	...	...	...	...	...	...	...	...	...	...	...	...

*We do not recommend reboring the 3J and 4J Flanges. See page F1-13 for standard keyseat dimensions & F1-10 for bore tolerances.

■ Approximate weight for each flange.



FLANGES

Type B flanges are made of high-strength cast iron the same as Types S, C and SC Sure-Flex flanges. Type B, however, is designed to accommodate Wood's Sure-Grip Bushing for easy installation and removal.

BUSHINGS

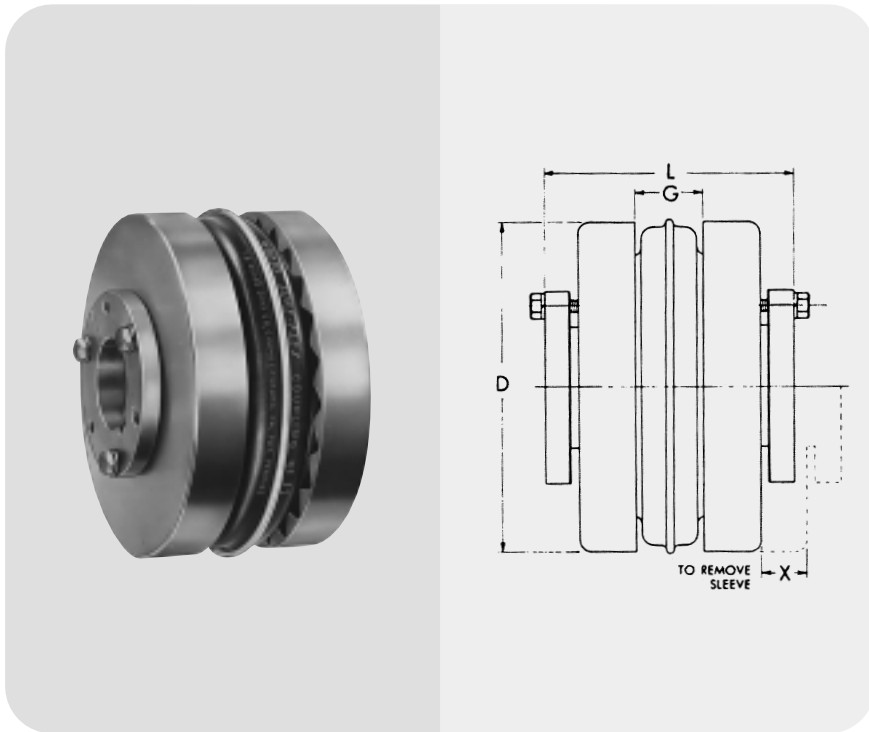
Sure-Grip Bushings offer convenient mounting of the flange to the shaft securely without setscrews. They are tapered and are split through both the bushing flange and taper to provide a clamp fit, eliminating wobble, vibration and fretting corrosion. This is the same bushing used in Wood's sheaves and pulleys and is readily available everywhere.

DIMENSIONS (in.)

Product No.	Bushing Required	Dimensions									Max. * Bore	Flange	Weight (lbs.) ■ Bushing
		C ₁	C ₂	D	E	F	G	L	T	X			
6B	JA	1 7/32	1	4.000	15/32	2	7/8	3 3/8	25/32	1 3/32	1 1/4	1.4	.8
7B	JA	1 5/8	1	4.625	15/32	2	1	3 1/2	25/32	1 5/16	1 3/16	1.9	.8
8B	SH	1 29/32	1 1/4	5.450	9/16	2 11/16	1 1/8	4 1/16	29/32	1 1/2	1 5/8	2.9	1.0
9B	SD	2 1/4	1 13/16	6.350	5/8	3 3/16	1 7/16	4 3/4	1 1/32	1 3/4	1 15/16	4.8	1.5
10B	SK	1 15/16	1 7/8	7.500	23/32	3 7/8	1 5/8	5 1/2	1 7/32	2	2 1/2	7.8	2.0
11B	SF	2 3/16	2	8.625	11/16	4 5/8	1 7/8	6 1/4	1 1/2	2 3/8	2 3/4	12.0	3.5
12B	E	2 23/32	2 5/8	10.000	29/32	6	2 5/16	7 1/2	1 11/16	2 11/16	3 1/2	18.0	9.0
13B	F	3 3/4	3 5/8	11.750	1 1/16	6 5/8	2 11/16	8 3/4	1 31/32	3	3 15/16	31.2	14.0
14B	F	3 3/4	3 5/8	13.875	1 1/16	6 5/8	3 1/4	9 7/8	2 1/4	3 1/2	3 15/16	51.4	14.0
16B	J	4 13/16	4 1/2	18.875	1 1/4	7 1/4	4 3/4	12 3/4	2 3/4	4 1/4	4 1/2	120.0	22.0

*Maximum bore with keyseat. ■ Approximate weight for each flange.

TYPE B BUSHED-FLEX QD – FOR CLOSE COUPLED APPLICATIONS



COUPLINGS

Type B Sure-Flex Couplings are normally supplied with the two-piece E sleeve, and can use any EPDM or Neoprene sleeves. DO NOT use Hytrel sleeves with Type B couplings.

Spacing between internal flange hubs equals L minus 2 times C. Spacing between shafts should be greater than 1/8 in. and less than G.

To order complete couplings, specify coupling size with flange symbol (B) and bushing. Refer to page F1—3 to order the required coupling. Refer to charts below for bushings.

SURE-GRIP® BUSHING KEYSEAT DIMENSIONS (in.)

Bushing	Bores	Keyseat
JA	1/2 – 1	Standard ②
	1 1/16 – 1 1/8	1/4 X 1/16
	1 3/16 – 1 1/4	1/4 X 1/32
SH	1/2 – 1 3/8	Standard ②
	1 7/16 – 1 5/8	3/8 X 1/16
	1 11/16	No K.S.
SD	1/2 – 1 11/16	Standard ②
	1 3/4	3/8 X 1/8
	1 13/16	1/2 X 1/8
	1 7/8 – 1 15/16	1/2 X 1/16
	2	No K.S.
SK	1/2 – 2 1/8	Standard ②
	2 3/16 – 2 1/4	1/2 X 1/8
	1 5/16 – 2 1/2	5/8 X 1/16
	2 9/16 – 2 5/8	No K.S.

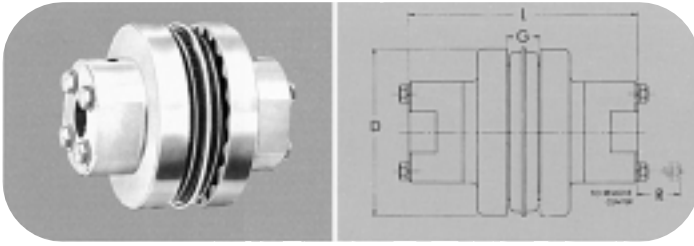
Bushing	Bores	Keyseat
SF	1/2 – 2 1/4	Standard ②
	2 5/16 – 2 1/2	5/8 X 3/16
	2 9/16 – 2 3/4	5/8 X 1/16
	2 13/16 – 2 15/16	No K.S.
E	7/8 – 2 7/8	Standard ②
	2 15/16 – 3 1/4	3/4 X 1/8
	3 5/16 – 3 1/2	7/8 X 1/16
F	1 – 3 1/4	Standard ②
	3 5/16 – 3 3/4	7/8 X 3/16
	3 13/16 – 3 15/16	1 X 1/8
	4	No K.S.
J	1 7/16 – 3 13/16	Standard ②
	3 7/8 – 3 15/16	1 X 3/8
	4 – 4 1/2	1 X 1/8

②

Standard Keyseat Dimension

Shaft Dia.	Width	Depth
1/2 – 9/16	1/8	1/16
5/8 – 7/8		3/16 3/32
15/16 – 1 1/4	1/4	1/8
1 5/16 – 1 3/8	5/16	5/32
1 7/16 – 1 3/4	3/8	3/16
1 13/16 – 2 1/4	1/2	1/4
2 5/16 – 2 3/4	5/8	5/16
2 13/16 – 3 1/4	3/4	3/8
3 5/16 – 3 3/4	7/8	7/16
3 13/16 – 4 1/2	1	1/2
4 9/16 – 5 1/2	1 1/4	5/8
5 9/16 – 6 1/2	1 1/2	3/4

BTS - CONVENTIONAL SPACER DESIGN



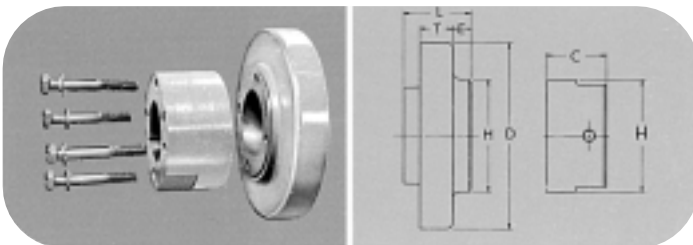
The table below shows assembled dimensions of Sure-Flex Type SC Spacer Couplings. For dimensions of separate components, refer to page F1—15.

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
		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
9SC	5	8SC50	8SCH-8SCHS	1-7/8	5.450	8-3/8	1-1/8	1-3/16	17.4
	3-1/2	8SC50-10	10SCH-10SCHS	2-3/8	5.450	9-5/8	1-1/8	1-3/16	27.2
		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
		9SC70-11	11SCH-11SCHS	2-7/8	6.350	12-3/8	1-7/16	1-3/16	48.2
	7-3/4	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
		12SC70-14	14SCH	3-7/8	10.000	14-5/8	2-5/16	2	99.1
14SC	7-3/4	12SC78	12SCH-12SCHS	2-7/8	10.000	13-5/8	2-5/16	1-1/2	91.9
	10	12SC78-14	14SCH	3-7/8	10.000	15-3/8	2-5/16	2	103.3
13SC	7-3/4	12SC100-14	14SCH	3-7/8	10.000	17-5/8	2-5/16	2	115.7
14SC	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).

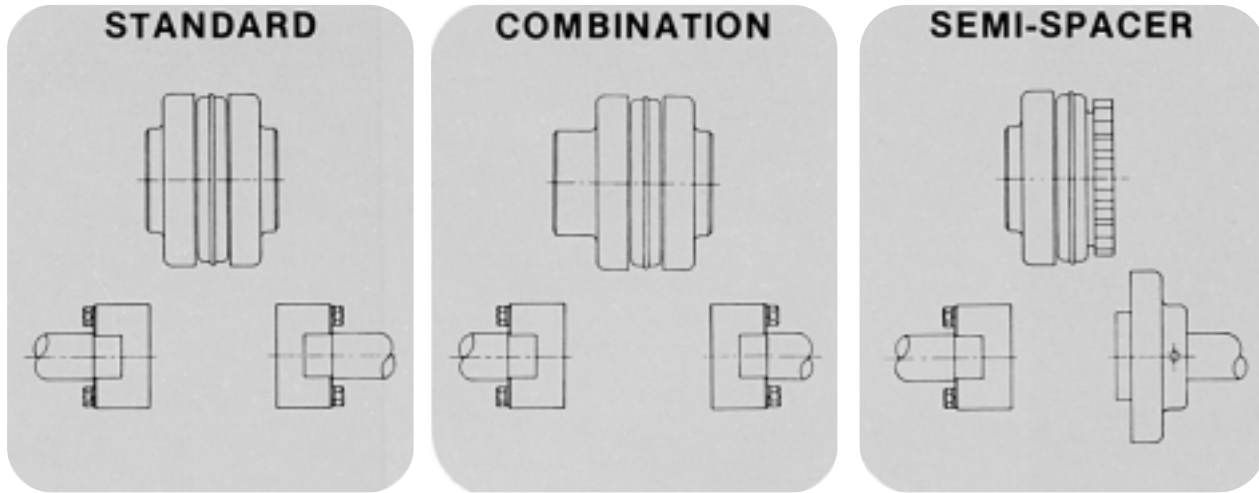
Coupling Size	Hub No.	Max. Bore	STOCK BORES *		Dimensions			Wt. (lbs.) ■
			Plain Bore	Bore with Standard Keyway & Set Screw	C	H	Cap Screws Furnished	
4JSC	†	1-1/8	...	5/8 - 7/8 - 1 - 1-1/8*	1-1/16	2	...	...
5SC	5SCH	1-1/8	1/2	5/8 - 3/4 - 7/8 - 1 - 1-1/8	1-3/32	2	4—10 x 1-1/2	.8
6SC	6SCH	1-3/8	5/8	3/4 - 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 1/6 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	
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

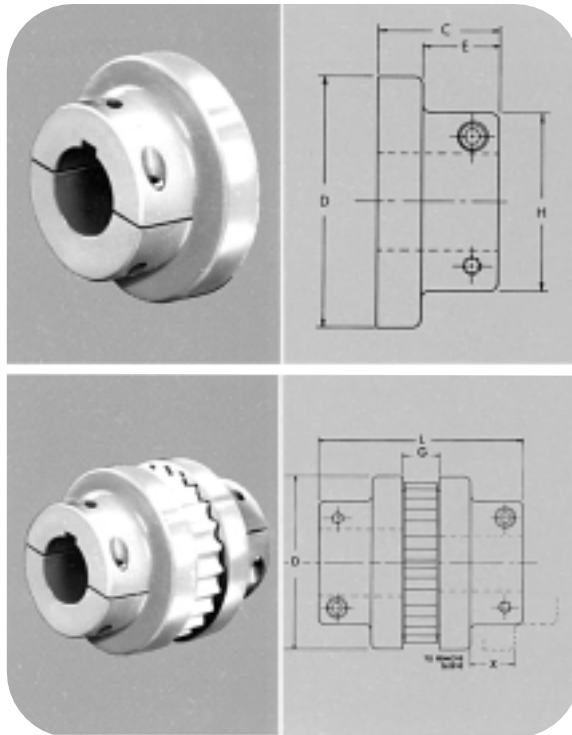
SEMI-SPACER	
Spacing	Use Flanges*
1-7/8	S & SC35
2-5/16	S & SC44
2-5/8	S & SC50
3-5/8	S & SC70
4	S & SC78
5-1/8	S & SC100

* Check individual coupling size for flange availability.

** Non-Stock

Note: Other combinations available — consult factory.

CLAMP HUB – SPACER DESIGN



FLANGES

Sure-Flex Type C Clamp Hub flanges employ integral locking collars and screws to assure a clamp fit on the shaft. One setscrew is furnished over the key. They are designed primarily for applications where flanges must be removed from one or both shafts without moving either the driver or driven units. A typical application is a screw compressor which uses a replaceable face seal around the input shaft.

COUPLINGS

Type C Clamp Hub Couplings normally use Hyflex sleeves. However, any of the sleeves shown on page F1—5 can be used. Type C couplings may often be used where spacer couplings are required.

Spacing between internal flange hubs equals G.

To order complete couplings, specify coupling size with flange symbol (C), giving bore required. Refer to page F1—3 to order the required coupling.

DIMENSIONS (in.)

Flange Size	Stock Bores ①	Maximum Bore		Distance Between Shafts		Dimensions						Approx. Wt. (lbs.)*	
		② Standard Keyseat	③ Shallow Keyseat	Min.	Max.	C	D	E	G	H	L		X
6C	1-1/8, 1-7/8, 4.0mm	1-5/8	1-7/8	2	2-3/4	1-15/16	4.000	1.18	7/8	3	4-3/4	1	2.8
7C	1-3/8, 1-7/8, 15mm, 4.0mm	1-7/8	-	2-5/16	3-7/16	2-3/16	4.025	1.41	1-1/16	3-1/4	5-7/16	1-3/16	3.8
8C	1-3/8, 1-5/8, 1-3/4, 1-7/8, 2-1/8, 2-1/4, 2-3/8, 4.0mm	2-1/4	2-3/8	2-5/16	4	2-1/2	5.450	1.59	1-1/8	3-7/8	6-1/8	1-3/8	6.5
9C	1-5/8, 1-3/4, 1-7/8, 2-1/8, 2-1/4, 2-3/8, 2-1/2	2-3/8	2-11/16	3-1/16	4-5/8	3	6.250	1.57	1-7/16	4-1/4	7-7/16	1-5/16	9.8
11C	1-5/8, 1-7/8, 2-1/4, 2-3/8, 2-1/2	2-7/8	-	3-5/16	5-1/4	3-1/2	7.500	2.28	1-11/16	5	8-11/16	1-11/16	18.8
11C	2-1/8, 2-3/8, 2-1/2	3-3/8	-	4-1/8	5-7/8	4	8.025	2.5	1-7/8	5-3/8	9-7/8	2-1/8	26.8
12C	2-1/8	3-3/8	-	4-7/8	6-1/2	4-3/8	10.000	2.65	2-3/8	6	11-1/8	2-3/8	38.3

① For Standard keyseat dimensions, see chart page F1—13. * Weight of one flange.

Bore Tolerances for Type C Flanges

These bores provide a slip fit.

Bore (in.)	Tolerance (in.)
Up to and including 2"	+ .0005 to +.0015
Over 2"	+ .0005 to +.0020

Shallow Keyseat Dimensions

Some large bore Type C flanges are supplied with shallow keyseats. In these cases, a rectangular key is furnished. The flanges and bores involved are as follows:

Size	Bore Range	KS	Key Furnished
6C	1-11/16 to 1-7/8	1/2 x 1/16	1/2 x 5/16 x 1-15/16
8C	2-5/16 to 2-3/8	5/8 x 1/16	5/8 x 3/8 x 2-1/2
9C	2-7/16 to 2-11/16	5/8 x 3/16	5/8 x 1/2 x 3

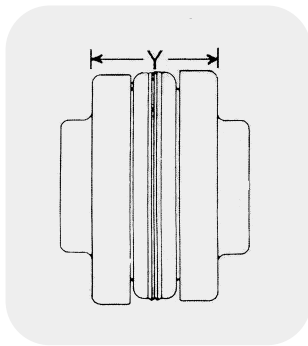
Installation Instructions

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.

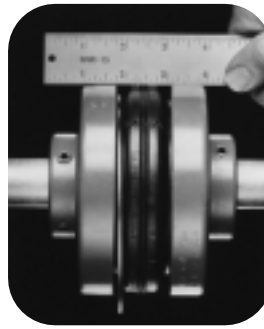
3 Position the flanges on the shafts to approximately achieve the Y dimension shown in the table. It is usually best to have an equal length of shaft extending into each flange. Move one flange to its final position. Torque fasteners to proper values. Slide the other flange far enough away to install 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.

DURA-FLEX® COUPLINGS



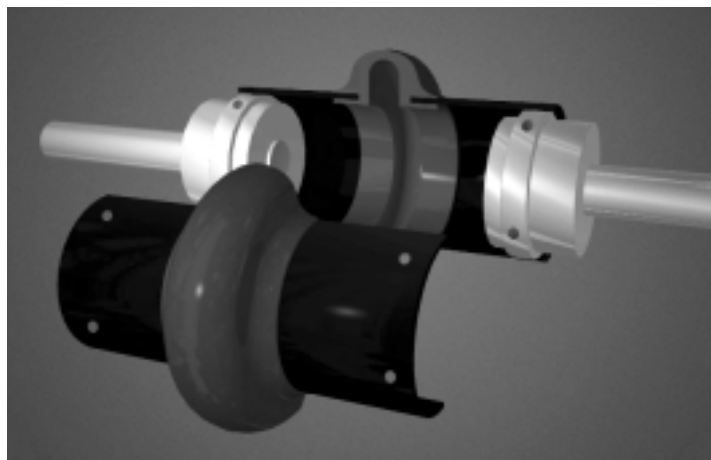
SECTION F2



Patent No. 5,611,732

FEATURES

- Designed from the ground up using finite element analysis to maximize flex life.
- Easy two piece element installation. No need to move the hubs during replacement.
- One spacer size to handle most different between shaft spacings.
- Light weight element absorbs shock loading and torsional vibration.
- Same hubs used on both spacer and standard elements.
- No lubrication.
- Good chemical resistance.
- Stock bore-to-size (BTS), Sure-Grip bushed (QT) and Taper-Lock® bushed (TL) Hubs.



The specially designed split-in-half element can be easily replaced without moving any connected equipment.

A. Determine the Prime Mover Classification

Prime Mover	Class
• Electric Motors (Standard duty), Hydraulic Motors, Turbines	A
• Gasoline or Steam Engines (4 or more cylinders)	B
• Diesel or Gas Engines, High Torque Electric Motors	C

B. Determine the Load Characteristics and the Service Factor

Typical Applications	Load	Characteristics	Prime Mover Class		
			A	B	C
Agitators (pure liquids), Blowers (centrifugal, Can and Bottle Filling Machines, Conveyors - uniformly loaded or fed (belt, chain, screw), Fans (centrifugal), Generators (uniform load), Pumps (centrifugal), Screens (air washing, water), Stokers (uniform load), Woodworking Machines (planers, routers, saws)	Uniform	Even loads - no shock - non reversing - infrequent starts (up to 10 per hour) - low starting torques	1.0	1.5	2.0
Beaters, Blowers (lobe, vane), Compressors (centrifugal, rotary), Conveyors - non uniformly loaded or fed (belt, bucket, chain, screw), Dredge Pumps, Fans (forced draft, propeller), Kilns, Paper Mills (calendars, converting machines, conveyors, dryers, mixers, winders), Printing Presses, Pumps (gear, rotary), Shredders, Textile Machinery (dryers, dyers)	Moderate shock	Uneven loads - moderate shock Infrequent reversing-moderate torques	1.5	2.0	2.5
Cranes (bridge, hoist, trolley), Fans (cooling tower), Generators (welding), Hammer Mills, Mills (ball, pebble, rolling, tube, tumbling), Pumps (oil well), Wire Drawing Machines	Heavy shock	Uneven loads - heavy shock - frequent starts and stops - high starting torques - high inertia peak loads	2.0	2.5	3.0

Note: The above applications depict the generally accepted conditions encountered in industry. Conditions subject to extreme temperatures, abrasive dusts, corrosive liquids, excessively high starting torques, etc., must be considered as extra heavy shock loads. These conditions will increase service factors. Consult TB Wood's for these selections.

C. Calculate Design Horsepower or Design Torque

- If Prime Mover is a 1160, 1750, or 3500 rpm motor.
Design Hp = Prime Mover HP x Service Factor
Go to page F2—3 and reference the corresponding motor rpm column.
- If Prime Mover is not one of the three speeds listed above.
Design HP @ 100 rpm = (Prime Mover Hp x Service Factor x 100) / Coupling RPM
Go to page F2—3 and reference HP @ 100 RPM column.
- If Using Prime Mover Torque
Design Torque = Prime Mover Torque x Service Factor
Go to page F2—3 and reference Torque column.

D. Select Coupling (DURA-FLEX Couplings are sold by component)

A DURA-FLEX Assembly consists of one element (STD or Spacer) and two hubs (BTS or QD). Optional high speed rings may also be ordered for spacer elements. Below is an ordering example for Dura-Flex Couplings.

	Part #	Description	Size 20 Example
Element (1)	WE2 - WE80	Standard element, sizes 2 through 80	WE20
Hubs (2)	WES2 - WES80	Spacer element, sizes 2 through 80	WES20
	WE[2-80] x Bore	BTS hubs - stock bore (specify bore size)	WE20H138
	WE[4-80] - Bushing	QD hubs (sizes 4 through 80, bushing not included)	WE20H
HS Rings (1)	WE[3-80] - TL Bushing	TL hubs (sizes 3 through 80, bushing not included)	WE20HTL
	WE[20-80]R	High speed rings - sizes 20-80 (standard for sizes 2-10)	WE20R

DURA-FLEX COUPLING SELECTION (continued)



COUPLING RATINGS (STD & SPACER)

Coupling Size	HP @ RPM				Torque (IN LBS)	Stiffness in lbs/Radian	Maximum Rpm		Max. Misalignment	
	100	1160	1750	3500			Standard	Spacer*	Parallel	Angular
WE2	.30	3.50	5.28	10.55	190	3170	7500	7500	1/16	4°
WE3	.58	6.72	10.13	20.27	365	4710	7500	7500	1/16	4°
WE4	.88	10.12	15.27	30.54	550	5370	7500	7500	1/16	4°
WE5	1.48	17.02	25.68	51.37	925	9820	7500	7500	1/16	4°
WE10	2.30	26.69	40.26	80.52	1450	15800	7500	7500	1/16	4°
WE20	3.65	42.33	63.86	127.73	2300	27600	6600	4800	3/32	3°
WE30	5.79	67.18	101.35	202.70	3650	42200	5800	4200	3/32	3°
WE40	8.85	101.23	152.72	305.43	5500	65200	5000	3600	3/32	3°
WE50	12.14	140.80	212.42	424.83	7650	123000	4200	3100	3/32	3°
WE60	19.84	230.07	347.08	694.17	12500	167000	3800	2800	1/8	2°
WE70	35.12	407.39	614.60	1229.20	22125	205000	3600	2600	1/8	2°
WE80	62.70	727.32	1097.30	2194.50	39500	305000	2000	1800	1/8	2°

*Maximum spacer RPM = Maximum standard RPM if using optional high speed rings

BTS HUBS - STOCK BORES

BORE SIZE	PRODUCT NO.*	WE2H	WE3H	WE4H	WE5H	WE10H	WE20H	WE30H	WE40H	WE50H	WE60H	WE70H	WE80H
1/2	12	O	O										
5/8	58	X	X	OX									
3/4	34	XS	XS	X	O								
7/8	78	XS	XS	XS		O	O						
15/16				X									
1	1	XS	XS	XS	X	X	X	O	O				
1-1/16					X								
1-1/8	118	XS	XS	XS	XS	XS	XS	X					
1-3/16				X	X								
1-1/4	114		XS	X	X	X	XS						
1-5/16				X	X								
1-3/8	138		XS	XS	XS	XS	XS	XS					
1-7/16				X	X	X							
1-1/2	112			X	X	X	XS	XS	XS				
1-9/16				X	X								
1-5/8	158			XS	XS	XS	XS	XS	XS				
1-11/16				X	X	X	X	X					
1-3/4	134				X	X	XS	XS	XS	X			
1-7/8	178				XS	XS	XS	XS	XS	X			
1-15/16						X	X						
2	2				X	S	X	XS			O		
2-1/8	218					X	XS	XS	X	X	X	O	
2-3/16							X						
2-1/4	214						XS	XS	XS	X			
2-3/8	238						XS	XS	XS	X	X	X	O
2-1/2								XS	X				
2-5/8	258											X	
2-3/4								XS	XS				
2-7/8	278							XS	XS	X	X	X	X
3-3/8	338								XS	X	X	X	X
3-3/4	334												X
3-7/8	378										X	X	X
4	4										X		
4-3/8	438											X	
4-7/8	478												X
MAX BORE		1-1/8	1-3/8	1-5/8	1-7/8	2-1/8	2-3/8	2-7/8	3-3/8	3-5/8	4	4-1/2	6

O NO KEYSEAT

X STANDARD KEYSEAT

S STEEL HUB OPTION

MAX. BORE INCLUDES STANDARD KEYSEAT

* PRODUCT NUMBER EXAMPLE → WSE5H114 for WE5 x 1-1/4 HUB
WESH5118 for WE5 x 1-1/8 STEEL HUB

BORE TOLERANCES (BTS)

BORE SIZE	TOLERANCE
UP TO AND INCLUDING 2"	+ .0005 to + .0015
OVER 2"	+ .0005 to + .0002



DURA-FLEX BTS COUPLINGS

Assembly Dimensions for BTS Couplings.

(All dimensions in inches) Minimum Shaft Spacing = .25"

Dimensions Common to BTS Standard and Spacer Assemblies

SIZE	A	B	C	Max. Bore
WE2 & WES2	3.70	1.85	0.94	1-1/8
WE3 & WES3	4.24	2.32	1.50	1-3/8
WE4 & WES4	4.52	2.6	1.69	1-5/8
WE5 & WES5	5.40	3.13	1.75	1-7/8
WE10 & WES10	6.48	3.65	1.88	2-1/8
WE20 & WES20	7.36	4.48	2.06	2-3/8
WE30 & WES30	8.41	5.42	2.31	2-7/8
WE40 & WES40	9.71	6.63	2.50	3-3/8
WE50 & WES50	11.34	8.13	2.75	3-5/8
WE60 & WES60	12.53	8.75	3.25	4
WE70 & WES70	14.00	9.25	3.62	4-1/2
WE80 & WES80	16.00	11.3	4.87	6

Standard Element Assembly

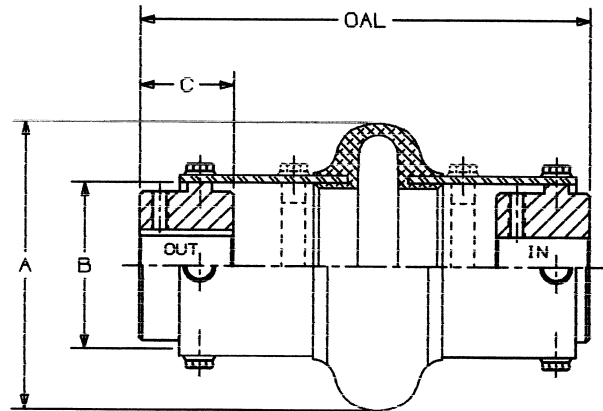
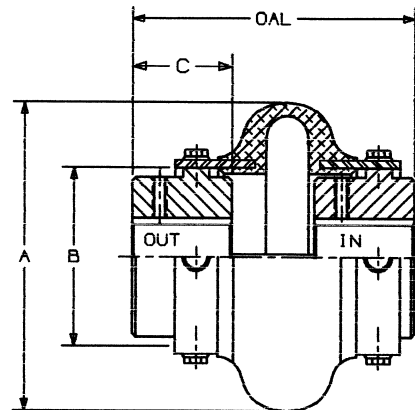
Product No.*	OAL MAX	OAL MIN	Maximum DBSE	Weight lbs.
WE2	3.78	3.22	1.90	1.5
WE3	4.32	3.80	1.32	3.3
WE4	4.68	3.82	1.30	4.4
WE5	5.30	4.32	1.80	7.4
WE10	5.57	4.13	1.81	11.2
WE20	6.82	4.30	2.70	16.3
WE30	7.61	4.63	2.99	27.7
WE40	8.16	5.08	3.16	45.4
WE50	9.21	5.79	3.71	59.0
WE60	10.70	6.44	4.20	82.6
WE70	11.00	7.20	4.86	109.0
WE80	14.75	9.30	6.64	242.0

* Product number is element only.

Spacer Element Assembly

Product No.*	OAL MAX	OAL MIN	Maximum DBSE	Weight lbs.
WES2	5.72	5.72	4.04	2.5
WES3	8.02	7.28	5.02	4.8
WES4	8.38	7.28	5.00	6.1
WES5	8.50	7.28	5.00	9.4
WES10	8.76	7.28	5.00	13.6
WES20	11.17	9.35	7.05	19.2
WES30	11.65	9.35	7.03	31.0
WES40	11.89	9.35	6.89	48.9
WES50	12.31	9.35	6.81	63.5
WES60	16.28	12.40	9.78	91.0
WES70	16.81	12.50	9.57	128
WES80	19.73	12.50	9.77	258

* Product number is element only.



Sizes WES2 through WES10 are furnished with high speed rings. All larger sizes, rings can be ordered as an option.

All weights shown are with MPB style hubs.

Shaft Spacing from 1/4" up to the MAX DBSE can be accommodated by positioning hubs IN or OUT or by using various existing hole patterns. OAL - Over All Length does Not include bolt heads

DURA-FLEX QD BUSHED COUPLINGS



Assembly Dimensions for QD Bushed Couplings.

(All dimensions in inches) Minimum Shaft Spacing = .25"

Dimensions Common to QD Bushed Standard and Spacer Assemblies

SIZE	A	B	D	Bushing	Max. Bore
WE4 & WES4	4.52	2.60	1.00	JA	1-1/4
WE5 & WES5	5.40	3.13	1.25	SH	1-11/16
WE10 & WES10	6.48	3.65	1.31	SDS	2
WE20 & WES20	7.36	4.48	1.88	SK	2-5/8
WE30 & WES30	8.41	5.42	2.00	SF	2-15/16
WE40 & WES40	9.71	6.63	2.63	E	3-1/2
WE50 & WES50	11.34	8.13	2.63	E	3-1/2
WE60 & WES60	12.53	8.75	3.63	F	4
WE70 & WES70	14.00	9.25	4.50	J	4-1/2
WE80 & WES80	16.00	11.3	6.75	M	5-1/2

Standard Element Assembly

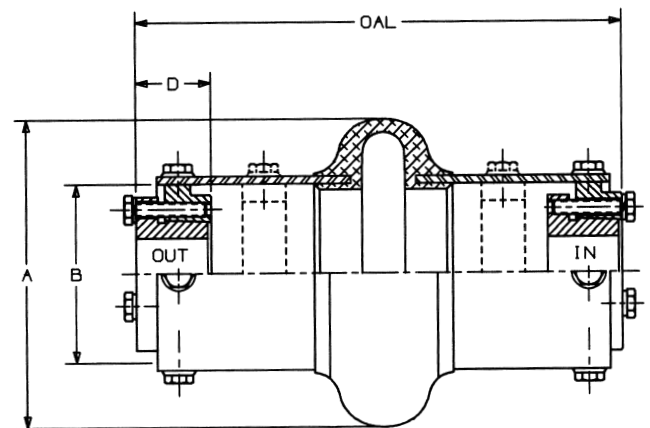
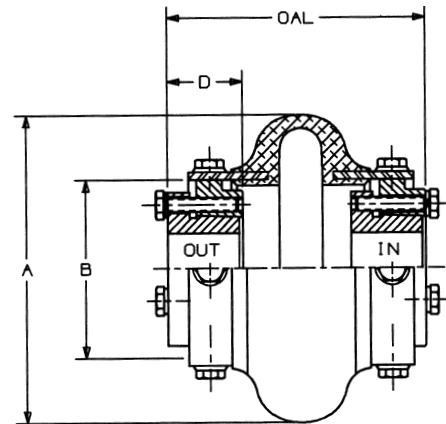
Product No.*	OAL MAX	OAL MIN	Maximum DBSE	Weight lbs.
WE4	3.88	3.24	1.88	3.8
WE5	4.50	4.24	1.88	6.0
WE10	4.95	3.83	2.31	8.8
WE20	6.37	4.38	2.62	15.9
WE30	5.94	5.43	2.19	25.1
WE40	6.75	6.50	1.74	47.0
WE50	7.88	6.61	2.89	48.0
WE60	8.88	8.68	1.96	79.4
WE70	10.47	10.12	1.72	124
WE80	14.72	13.97	1.47	268

* Product number is element only.

Spacer Element Assembly

Product No.*	OAL MAX	OAL MIN	Maximum DBSE	Weight lbs.
WES4	7.58	7.28	5.58	5.5
WES5	7.71	7.28	5.08	8.0
WES10	8.14	7.28	5.50	11.2
WES20	10.72	9.35	6.97	18.8
WES30	9.98	9.35	6.23	28.4
WES40	10.48	9.35	5.47	50.5
WES50	10.98	9.35	5.99	52.5
WES60	14.46	12.40	7.54	106.8
WES70	15.41	12.50	6.65	143
WES80	17.85	14.35	4.60	284

* Product number is element only.



Sizes WES4 through WES10 are furnished with high speed rings. All larger sizes, rings can be ordered as an option.

All weights shown are with MPB bushings.

Shaft Spacing from 1/4" up to the MAX DBSE can be accommodated by positioning hubs IN or OUT or by using various existing hole patterns. OAL - Over All Length does Not include bolt heads



DURA-FLEX Taper-Lock® BUSHED COUPLINGS

Assembly Dimensions for Taper-Lock® Bushed Couplings.

(All dimensions in inches) Minimum Shaft Spacing = .25"

Dimensions Common to Taper-Lock® Bushed Standard and Spacer Assemblies

SIZE	A	B	D	Bushing	Max. Bore
WE3 & WES3	4.24	2.32	0.88	TL1008	1
WE4 & WES4	4.52	2.60	0.88	TL1008	1
WE5 & WES5	5.40	3.13	0.88	TL1108	1-1/8
WE10 & WES10	6.48	3.65	1.00	TL1310	1-7/16
WE20 & WES20	7.36	4.48	1.00	TL1610	1-11/16
WE30 & WES30	8.41	5.42	1.25	TL2012	2-1/8
WE40 & WES40	9.71	6.63	1.75	TL2517	2-11/16
WE50 & WES50	11.34	8.13	1.75	TL2517	2-11/16
WE60 & WES60	12.53	8.75	2.00	TL3020	3-1/4
WE70 & WES70	14.00	9.25	3.50	TL3535	3-15/16
WE80 & WES80	16.00	11.3	4.00	TL4040	4-7/16

Standard Element Assembly

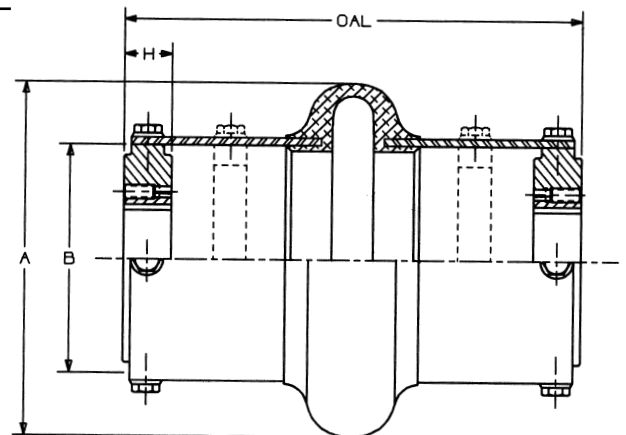
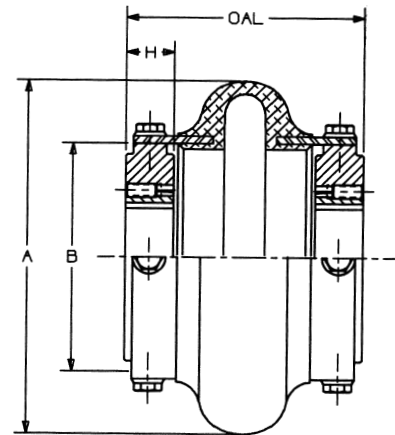
Product No.*	OAL	Maximum DBSE	Weight lbs.
WE3	3.44	1.69	1.8
WE4	3.44	1.69	2.6
WE5	3.94	2.19	4.0
WE10	4.06	2.06	6.0
WE20	4.50	2.50	9.0
WE30	5.06	2.56	13.6
WE40	5.88	2.38	21.8
WE50	6.50	3.00	31.5
WE60	7.31	3.31	46.6
WE70	9.38	2.38	66.7
WE80	11.75	3.75	82.0

* Product number is element only.

Spacer Element Assembly

Product No.*	OAL MAX	OAL MIN	Maximum DBSE	Weight lbs.
WES3	7.28	7.28	5.38	3.2
WES4	7.28	7.28	5.38	4.2
WES5	7.28	7.28	5.38	6.0
WES10	7.28	7.28	5.25	7.9
WES20	9.35	9.35	6.87	11.9
WES30	9.35	9.35	6.60	18.0
WES40	9.59	9.35	6.11	26.8
WES50	9.59	9.35	6.11	37.4
WES60	12.90	12.40	8.90	60.7
WES70	14.34	12.50	7.34	81.4
WES80	14.84	14.35	6.84	93.2

* Product number is element only.



Sizes WES3 through WES10 are furnished with high speed rings. All larger sizes, rings can be ordered as an option.

All weights shown are with MPB bushings.

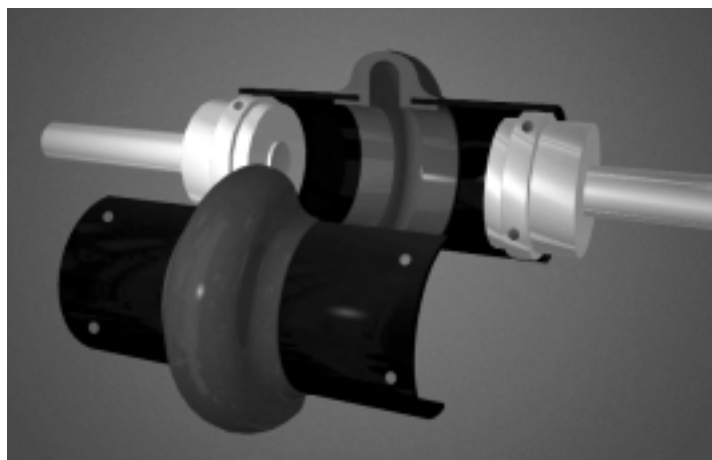
® Taper-Lock is a registered tradename of Rockwell Automation-Dodge.



Patent No. 5,611,732

FEATURES

- Metric Hardware
- Designed from the ground up using finite element analysis to maximize flex life.
- Easy two piece element installation. No need to move the hubs during replacement.
- One spacer size to handle most different between shaft spacings.
- Light weight element absorbs shock loading and torsional vibration.
- Same hubs used on both spacer and standard elements.
- No lubrication.
- Good chemical resistance.



The specially designed split-in-half element can be easily replaced without moving any connected equipment.



DURA-FLEX METRIC COUPLING SELECTION

A. Determine the Prime Mover Classification

Prime Mover	Class
• Electric Motors (Standard duty), Hydraulic Motors, Turbines	A
• Gasoline or Steam Engines (4 or more cylinders)	B
• Diesel or Gas Engines, High Torque Electric Motors	C

B. Determine the Load Characteristics and the Service Factor

Typical Applications	Load	Characteristics	Prime Mover Class		
			A	B	C
Agitators (pure liquids), Blowers (centrifugal, Can and Bottle Filling Machines, Conveyors - uniformly loaded or fed (belt, chain, screw), Fans (centrifugal), Generators (uniform load), Pumps (centrifugal), Screens (air washing, water), Stokers (uniform load), Woodworking Machines (planers, routers, saws)	Uniform	Even loads - no shock - non reversing - infrequent starts (up to 10 per hour) - low starting torques	1.0	1.5	2.0
Beaters, Blowers (lobe, vane), Compressors (centrifugal, rotary), Conveyors - non uniformly loaded or fed (belt, bucket, chain, screw), Dredge Pumps, Fans (forced draft, propeller), Kilns, Paper Mills (calendars, converting machines, conveyors, dryers, mixers, winders), Printing Presses, Pumps (gear, rotary), Shredders, Textile Machinery (dryers, dyers)	Moderate shock	Uneven loads - moderate shock - infrequent reversing-moderate torques	1.5	2.0	2.5
Cranes (bridge, hoist, trolley), Fans (cooling tower), Generators (welding), Hammer Mills, Mills (ball, pebble, rolling, tube, tumbling), Pumps (oil well), Wire Drawing Machines	Heavy shock	Uneven loads - heavy shock - frequent starts and stops - high starting torques - high inertia peak loads	2.0	2.5	3.0

Note: The above applications depict the generally accepted conditions encountered in industry. Conditions subject to extreme temperatures, abrasive dusts, corrosive liquids, excessively high starting torques, etc., must be considered as extra heavy shock loads. These conditions will increase service factors. Consult TB Wood's for these selections.

C. Calculate Design Horsepower or Design Torque

- If Prime Mover is a 970, 1450, or 3000 rpm motor.
 Design KW = Prime Mover KW x Service Factor
 Go to page F2—9 and reference the corresponding motor rpm column.
- If Prime Mover is not one of the three speeds listed above.
 Design KW @ 100 rpm = (Prime Mover KW x Service Factor x 100) / Coupling RPM
 Go to page F2—9 and reference KW @ 100 RPM column.
- If Using Prime Mover Torque
 Design Torque = Prime Mover Torque x Service Factor
 Go to page F2—9 and reference Torque column.

DURA-FLEX METRIC COUPLING SELECTION (continued)



D. DURA-FLEX Couplings are sold by component

A DURA-FLEX Assembly consists of one element (STD or Spacer) and two hubs (BTS or QD). Optional high speed rings may also be ordered for spacer elements. Below is an ordering example for Dura-Flex Couplings.

	Part #	Description	Size 20 Example
Element (1)	WE2M – WE80M	Standard Metric Element, sizes 2 through 80	WE20M
	WES2M – WES80M	Spacer Metric Element, sizes 2 through 80	WES20M
Hubs (2)	WE[2-80] MPB	BTS Hubs – MPB suitable to rebore	WE20MMPB
	WE[3-80] – TL Bushing	TL Hubs (sizes 3 through 80, bushing not included)	WE20MTL
HS Rings (1)	WE[20-80]R	High speed rings – sizes 20-80 (standard for sizes 2-10)	WE20RM

COUPLING RATINGS (STD & SPACER)

Coupling Size	KW @ RPM				Torque (Nm)	Stiffness NM/RAD	Maximum Rpm		Max. Misalignment	
	100	970	1450	3000			Standard	Spacer*	Parallel (MM)	Angular
WE2M	0.22	2.17	3.24	6.71	21.47	358	7500	7500	1.6	4°
WE3M	0.43	4.20	6.27	12.98	41.24	532	7500	7500	1.6	4°
WE4M	.66	6.37	9.52	19.69	62.14	607	7500	7500	1.6	4°
WE5M	1.10	10.71	16.00	33.11	104.5	1110	7500	7500	1.6	4°
WE10M	1.72	16.64	24.87	51.45	163.8	1790	7500	7500	1.6	4°
WE20M	2.72	26.40	39.47	81.65	259.9	3120	6600	4800	2.4	3°
WE30M	4.32	41.88	62.61	129.53	412.4	4770	5800	4200	2.4	3°
WE40M	6.60	64.01	95.69	197.98	621.4	7370	5000	3600	2.4	3°
WE50M	9.05	87.81	131.27	271.58	864.3	13900	4200	3100	2.4	3°
WE60M	14.79	143.51	214.52	443.84	1412	18900	3800	2800	3.2	2°
WE70M	26.19	254.03	379.74	785.67	2500	23200	3600	2600	3.2	2°
WE80M	46.76	453.53	677.95	1402.66	4463	34500	2000	1800	3.2	2°

*Maximum spacer RPM = Maximum standard RPM if using optional high speed rings



DURA-FLEX METRIC BTS COUPLINGS

TB Wood's

Assembly Dimensions for BTS Couplings.

(All dimensions in millimeters) Minimum Shaft Spacing = 6.35mm

Dimensions Common to BTS Standard and Spacer Assemblies

SIZE	A	B	C	Max Bore
WE2M & WES2M	94	47	24	29
WE3M & WES3M	108	59	38	35
WE4M & WES4M	115	66	43	41
WE5M & WES5M	137	80	44	48
WE10M & WES10M	165	93	48	54
WE20M & WES20M	187	114	52	60
WE30M & WES30M	214	138	59	73
WE40M & WES40M	247	168	64	86
WE50M & WES50M	288	207	70	92
WE60M & WES60M	318	222	83	102
WE70M & WES70M	356	235	92	114
WE80M & WES80M	406	287	124	152

Standard Element Assembly

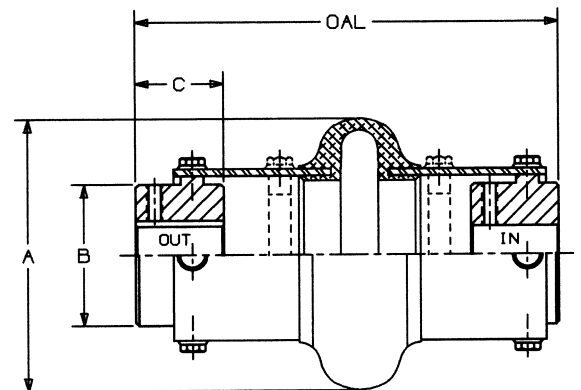
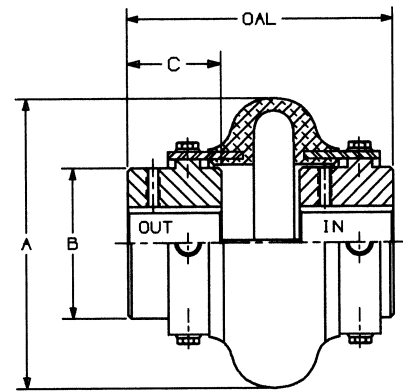
Product No.	OAL MAX	OAL MIN	Maximum DBSE	Weight kg
WE2M	96	82	48	.07
WE3M	110	97	34	1.5
WE4M	119	97	33	2.0
WE5M	135	110	46	3.4
WE10M	141	105	46	5.1
WE20M	173	109	69	7.4
WE30M	193	118	76	12.6
WE40M	207	129	80	20.6
WE50M	234	147	94	26.8
WE60M	272	164	107	37.5
WE70M	279	183	123	49.4
WE80M	375	236	169	110

* Product number is element only.

Spacer Element Assembly

Product No.	OAL MAX	OAL MIN	Maximum DBSE	Weight kg
WES2M	145	145	103	1.1
WES3M	204	185	128	2.2
WES4M	213	185	127	2.8
WES5M	216	185	127	4.3
WES10M	223	185	127	6.2
WES20M	284	237	180	8.7
WES30M	296	237	180	14.1
WES40M	302	237	175	22.2
WES50M	313	237	173	28.8
WES60M	414	315	248	41.3
WES70M	427	318	243	58.1
WES80M	501	318	248	117

* Product number is element only.



Sizes WES2M through WES10M are furnished with high speed rings. All larger sizes, rings can be ordered as an option. All weights shown are with MPB style hubs.

Shaft Spacing from 1/4" up to the MAX DBSE can be accommodated by positioning hubs IN or OUT or by using various existing hole patterns. OAL - Over All Length does Not include bolt heads.

DURA-FLEX METRIC Taper-Lock® BUSHED COUPLINGS

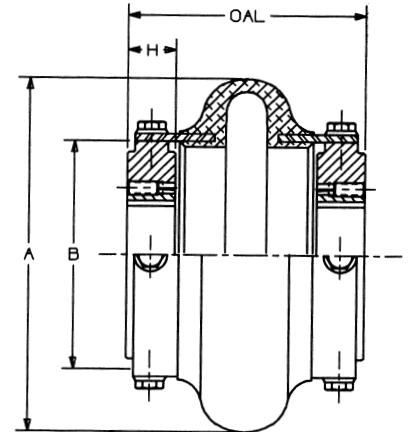


Assembly Dimensions for Taper-Lock® Bushed Couplings.

(All dimensions in inches) Minimum Shaft Spacing = .25"

Dimensions Common to Taper-Lock® Bushed Standard and Spacer Assemblies

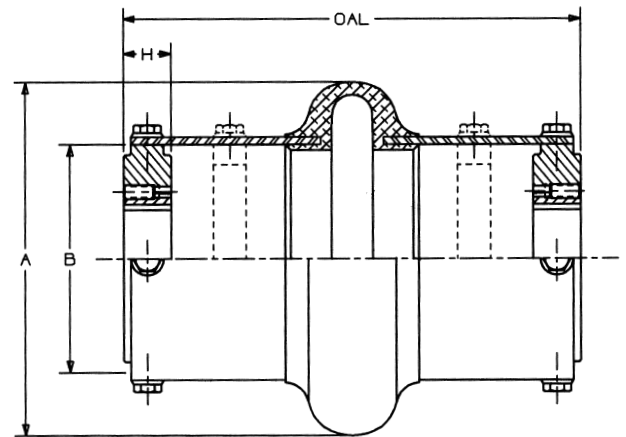
SIZE	A	B	H	Bushing	Max Bore
WE3M & WES3M	108	59	22	TL1008	26
WE4M & WES4M	115	66	22	TL1008	26
WE5M & WES5M	137	80	22	TL1108	29
WE10M & WES10M	165	93	25	TL1310	36
WE20M & WES20M	187	114	25	TL1610	44
WE30M & WES30M	214	138	32	TL2012	55
WE40M & WES40M	247	168	44	TL2517	68
WE50M & WES50M	288	207	44	TL2517	68
WE60M & WES60M	318	222	51	TL3020	82
WE70M & WES70M	356	235	89	TL3535	100
WE80M & WES80M	406	287	102	TL4040	113



Standard Element Assembly

Product No.	OAL	Maximum DBSE	Weight kg
WE3M	87	43	0.8
WE4M	87	43	1.2
WE5M	100	56	1.8
WE10M	103	52	2.7
WE20M	114	64	4.1
WE30M	129	65	6.2
WE40M	149	60	9.9
WE50M	165	76	14.3
WE60M	186	84	21.1
WE70M	238	60	30.3
WE80M	298	95	37.2

* Product number is element only.



Spacer Element Assembly

Product No.	OAL MAX	OAL MIN	Maximum DBSE	Weight kg
WES3M	185	185	137	1.5
WES4M	185	185	137	1.9
WES5M	185	185	137	2.7
WES10M	185	185	133	3.6
WES20M	237	237	174	5.4
WES30M	237	237	168	8.2
WES40M	244	237	155	12.2
WES50M	244	237	155	17.0
WES60M	328	315	226	27.5
WES70M	364	318	186	36.9
WES80M	377	318	174	42.3

* Product number is element only.

Sizes WES3M through WES10M are furnished with high speed rings. All larger sizes, rings can be ordered as an option.
All weights shown are with MPB bushings.

® Taper-Lock is a registered Trademark of Rockwell Automation - Dodge

Shaft Spacing from 1/4" up to the MAX DBSE can be accommodated by positioning hubs IN or OUT or by using various existing hole patterns. OAL - Over All Length does Not include bolt heads



We Have A Product for ALL Your Coupling Needs

Besides the full line of stock DURA-FLEX couplings —
Wood's has other stock coupling lines that may fill your application.



Sure-Flex[®]

- Operates in shear
- No lubrication
- Four-way flexibility
- Easy installation

**Up to 115 HP
@ 100 rpm**

Gear Couplings[®]

- High Torque Capacity
- Torsionally Stiff
- Good Inherent Balance
- Rated for Higher Speeds
- Many Types and Configurations

**Up to 2714 HP
@ 100 rpm**



Jaw Couplings

- Economical
- No maintenance
- Industry standard
- Large inventories

**Up to 30 HP
@ 100 rpm**

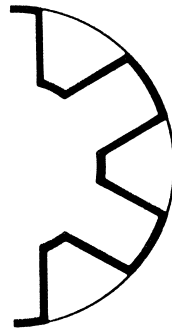
Form-Flex[®]

- All metal construction
- No lubrication
- Wide temperature range
- Zero backlash
- API offering

**Up to 3175 HP
@ 100 rpm**



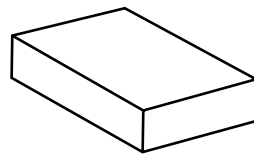
L-JAW



Straight Jaw

- 100% interchangeable with industry standard
- 4 Insert materials available
- Large selection of sizes

C-JAW



Straight Jaw

- Uses individual cushions
- For higher torque loads
- Cushions easily replaced

Determine the Prime Mover Classification

Prime Mover	Class
• Electric Motors (Standard duty), Hydraulic Motors, Turbines	A
• Gasoline or Steam Engines (4 or more cylinders)	B
• Diesel or Gas Engines, High Torque Electric Motors	C

Determine the Load Characteristics and the Service Factor

Typical Applications	Load	Characteristics	Prime Mover Class		
			A	B	C
Agitators (pure liquids), Blowers (centrifugal, Can and Bottle Filling Machines, Conveyors - uniformly loaded or fed (belt, chain, screw), Fans (centrifugal), Generators (uniform load), Pumps (centrifugal), Screens (air washing, water), Stokers (uniform load), Woodworking Machines (planers, routers, saws)	Uniform	Even loads - no shock - non reversing - infrequent starts (up to 10 per hour) - low starting torques — Up to 8 hours per day — Over 8 hours per day	1.0 1.5	1.5 2.0	2.0 2.5
Beaters, Blowers (lobe, vane), Compressors (centrifugal, rotary), Conveyors - non uniformly loaded or fed (belt, bucket, chain, screw), Dredge Pumps, Fans (forced draft, propeller), Kilns, Paper Mills (calendars, converting machines, conveyors, dryers, mixers, winders), Printing Presses, Pumps (gear, rotary), Shredders, Textile Machinery (dryers, dyers)	Moderate shock	Uneven loads - moderate shock Infrequent reversing-moderate torques — Up to 8 hours per day — Over 8 hours per day	1.5 2.0	2.0 2.5	2.5 3.0
Cranes (bridge, hoist, trolley), Fans (cooling tower), Generators (welding), Hammer Mills, Mills (ball, pebble, rolling, tube, tumbling), Pumps (oil well), Wire Drawing Machines	Heavy shock	Uneven loads - heavy shock - frequent starts and stops - high starting torques - high inertia peak loads — Up to 8 hours per day — Over 8 hours per day	2.0 2.5	2.5 3.0	3.0 3.5

Note: The above applications depict the generally accepted conditions encountered in industry. Conditions subject to extreme temperatures, abrasive dusts, corrosive liquids and dusts. Excessively high starting torques, etc., must be considered as extra heavy shock loads. These conditions will increase service factors. Consult factory for these selections.

Calculate Design Horsepower or Design Torque

- If Prime Mover is a 1200, 1800, or 3600 rpm motor.
Design Hp = Prime Mover HP x Service Factor
Go to page F3—3 and reference the corresponding motor rpm column.
- If Prime Mover is not one of the three speeds listed above.
Design Hp @ 100 rpm = (Prime Mover Hp x Service Factor x 100) / Coupling RPM
Go to page F3—3 and reference HP @ 100 RPM column.
- If Using Prime Mover Torque
Design Torque = Prime Mover Torque x Service Factor
Go to page F3—3 and reference Torque column.

Jaw Couplings are sold by component

Below is an ordering example for each Jaw style coupling.

All listed components must be ordered to receive a complete coupling.

Components	L-JAW		C-JAW	
	Product No.	Description	Product No.	Description
Driver Hub	L09958	L099 x 5/8	C280178	C280 x 1-7/8
Driven Hub	L09912NK no keyseat	L099 x 1/2	C280158	C280 x 1-5/8
Insert	L099N	L099 Buna-N	C280N (contains 6 cushions)	C280 Buna-N
Cover	none	none	C280CH w/ hardware	C280 Cover

TORQUE - HORSEPOWER RATINGS



L-JAW TYPE

PRODUCT NO.	MAX BORE	MAX RPM	BUNA-N SPIDER (N)					HYTREL SPIDER (H)					
			TORQUE IN. LBS	HP PER 100 RPM	HP/SPEEDS (RPM)			TORQUE IN. LBS.	HP PER 100 RPM	HP/SPEED (RPM)			
					1200	1800	3600			1200	1800	3600	
L035	3/8	31000	3.5	0.006	0.07	0.10	0.20						
L050	5/8	18000	26.3	0.042	0.50	0.75	1.50	50.0	0.079	0.95	1.43	2.86	
L070	3/4	14000	43.2	0.069	0.82	1.23	2.47	114	0.181	2.17	3.26	6.51	
L075	7/8	11000	90.0	0.143	1.71	2.57	5.14	227	0.360	4.32	6.48	12.97	
L090	1	9000	144.0	0.228	2.74	4.11	8.23	401	0.636	7.64	11.45	22.91	
1. L095	1-1/8	9000	194.0	0.308	3.69	5.54	11.08	561	0.890	10.68	16.02	32.04	
L099	1-3/16	7000	318.0	0.505	6.05	9.08	18.16	792	1.257	15.08	22.62	45.24	
2. L100	1-7/16	7000	417.0	0.662	7.94	11.91	23.82	1134	1.799	21.59	32.39	64.77	
L110	1-5/8	5000	792.0	1.257	15.08	22.62	45.24	2268	3.599	43.18	64.77	129.55	
L150	1-7/8	5000	1240.0	1.967	23.61	35.41	70.83	3708	5.883	70.60	105.90	211.80	
L190	2-1/8	5000	1726.0	2.739	32.86	49.29	98.59	4680	7.426	89.11	133.66	267.32	
L225	2-5/8	4600	2340.0	3.713	44.55	66.83	133.66	6228	9.882	118.58	177.87	355.74	
L276	2-7/8	4200	4716.0	7.483	89.79	134.69	269.38						

* BRONZE INSERTS HAVE SAME RATING AS HYTREL INSERTS.

* URETHANE INSERTS RATINGS MULTIPLY BUNA-N INSERT BY 1.5.

1. USES L090 SPIDERS

2. USES L099 SPIDERS

WARNING: DO NOT USE BRONZE INSERT OVER 250 RPM.

C-JAW TYPE

PRODUCT NO.	MAX BORE	MAX RPM	BUNA-N CUSHION SET (N)				
			TORQUE IN. LBS	HP PER 100 RPM	HP SPEEDS (RPM)		
					1200	1800	3600
C226	2-1/2	4800	2988.0	4.700	56.40	84.60	169.20
C276	2-7/8	4200	4716.0	7.500	90.00	135.00	270.00
C280	3	3500	7560.0	12.000	144.00	216.00	432.00
C285	4	3200	9182.0	14.600	175.20	262.80	525.60
C295	3-1/2	2300	11340.0	18.000	216.00	324.00	648.00
C2955	4	2300	18900.0	30.000	360.00	540.00	1080.00

SPIDER CHARACTERISTICS

CHARACTERISTICS	BUNA-N (N)	URETHANE (U)	HYTREL (H)	BRONZE (B)
OIL RESISTANCE	GOOD	GOOD	EXCELLENT	EXCELLENT
CHEMICAL RESISTANCE	POOR	GOOD	EXCELLENT	EXCELLENT
FLEXIBILITY	EXCELLENT	GOOD	FAIR	POOR
TEMPERATURE RANGE	F -40 TO +212 C -40 TO +100	-30 TO +160 -35 TO +71	-60 TO +250 -51 TO +121	-40 TO +450 -40 TO +232
TORSIONAL STIFFNESS	FULL SOFT	MEDIUM SOFT	HARD	HARD
AVERAGE HARDNESS (SHORE NUMBER)	80A	90A	55D	—
MAX. MISALIGNMENT				
• ANGULAR	1°	1°	1/2°	1/2°
• PARALLEL	.015"	.015"	.015"	.010"
AVAILABILITY	L-JAW C-JAW	X X	X X	X X

TO ORDER SPIDER OR CUSHION SET SPECIFY THE COUPLING SIZE WITH THE MATERIAL SUFFIX.

EXAMPLE:
L150H =
HYTREL SPIDER FOR
L150 COUPLING



STOCK BORES

TB Wood's

STOCK L-JAW INCH HUBS

BORE (IN.)	PRODUCT NO.	L035	L050	L070	L075	L090	L095	L099	L100	L110	L150	L190	L225	L276
1/8	18	0												
3/16	3/16	0												
1/4	14	X	X	X	X	X								
5/16	5/16	0	0	X	0	X								
3/8	38	X	X	X	X	X								
7/16	7/16		X	X	X	X	X	X	X					
1/2	12		X	X	X	X	X	X	X					
9/16	9/16		1	1	X	1	1	1	X					
5/8	58		X	X	1	1	1	1	1	X	X			
11/16	11/16			1	1	1	1	1	1					
3/4	34			1	1	X	1	1	1	1	1	X	X	
7/8	78				1	1	1	1	1	1	1	1	1	0
15/16	15/16					1	1	1	1	1	1	1	1	
1	1					1	1	1	1	1	1	1	1	
1 1/16	1116						1		1	1	1		1	
1 1/8	118						1	1	1	1	1	1	1	1
1 3/16	1316							1	1	1	1	1	1	
1 1/4	114								1	1	1	1	1	1
1 5/16	1516								1	1				
1 3/8	138								1	1	1	1	1	1
1 7/16	1716								1	1	1	1	1	
1 1/2	112									1	1	1	1	
1 9/16	1916									1	1	1	1	
1 5/8	158									1	1	1	1	
1 11/16	11116										1	1	1	
1 3/4	134										1	1	1	1
1 13/16	11316										1			
1 7/8	178										1	1	1	
1 15/16	11516											1	1	
2	2											1	1	1
2 1/16	2116													
2 1/8	218											1	1	1
2 3/16	2316												1	
2 1/4	214												1	1
2 3/8	238												1	
2 1/2	212												1	1
2 5/8	258												1	
2 7/8	278													1

0 NO KEYSEAT 1 STANDARD KEYSEAT X NO KEYSEAT OR STANDARD KEYSEAT

Product Number Example → L09012 for L090 x 1/2 HUB

NOTE: L-JAW Hubs also available in aluminum – contact factory.

Standard Keyseat Dimensions

Shaft Dia.	Width	Depth
1/2 - 9/16	1/8	1/16
5/8 - 7/8	3/16	3/32
15/16 - 1-1/4	1/4	1/8
1-5/16 - 1-3/8	5/16	5/32
1-7/16 - 1-3/4	3/8	3/16
1-13/16 - 2-1/4	1/2	1/4
2-5/16 - 2-3/4	5/8	5/16
2-13/16 - 3-1/4	3/4	3/8
3-5/16 - 3-3/4	7/8	7/16
3-13/16 - 4-1/2	1	1/2
4-9/16 - 5-1/2	1-1/4	5/8
5-9/16 - 6-1/2	1-1/2	3/4

BORE TOLERANCES

BORE SIZE	TOLERANCE
UP TO AND INCLUDING 2"	+ .0005 + .0015
OVER 2"	+ .0005 + .0002

STOCK L-JAW METRIC BORE HUBS

BORE (MM)	PRODUCT NO.	L035	L050	L070	L075	L090	L095	L099	L100	L110	L150	L190	L225	L276
5	5	0												
6	6	1												
7	7		0											
8	8		0	0										
9	9													
10	10		X											
11	11		1		1									
12	12		1	1	1	1	1							
14	14		X	1	1	1	1	1	1					
15	15		1	1	1	1	1							
16	16			1	1	1	1		1					
17	17				1		1							
18	18				1	1	1		1	1				
19	19			1	1	1	1		1					
20	20				1	1	1	1	1	1	1			
22	22				1		1	1	1	1				
24	24						1	1	1	1				
25	25						1	1	1	1	1	1		
28	28							1	1	1	1			
30	30							1	1	1	1	1		
32	32								1	1	1		1	
35	35								1	1	1	1		
38	38									1	1	1	1	
40	40									1	1	1	1	
42	42									1	1	1	1	
45	45										1			
48	48										1	1		
50	50											1		
55	55													
60	60												1	
65	65												1	

C-JAW HUBS

BORE SIZE	PRODUCT NO.	C226	C276	C280	C285	C295	C2955
SOLID	S						
1/8	18						
3/16	3/16						
1/4	14						
5/16	5/16						
3/8	38						
7/16	7/16						
1/2	12						
9/16	9/16						
5/8	58						
11/16	11/16						
3/4	34						
7/8	78	0	0				
15/16	15/16						
1	1						
1 1/16	1116						
1 1/8	118	1	1				
1 3/16	1316						
1 1/4	114	1	1	X	X		
1 5/16	1516						
1 3/8	138	1	1	1	1		
1 7/16	1716	1					
1 1/2	112	1	1	1	1	X	
1 9/16	1916						
1 5/8	158	1	1	1	1	1	
1 11/16	11116						
1 3/4	134	1	1	1	1	1	0
1 7/8	178	1	1	1	1	1	1
1 15/16	11516						
2	2	1	1	1			
2 1/8	218	1	1	1	1	1	
2 1/4	214	1	1				
2 3/8	238	1	1	1	1	1	1
2 1/2	212	1	1	1	1	1	1
2 5/8	258		1	1		1	1
2 7/8	278		1	1	1	1	1
3	3			1			
3 3/8	338				1	1	1
3 1/2	312				1	1	1
3 5/8	358						1
3 3/4	334						1
3 7/8	378				1		1

0 NO KEYSEAT 1 STANDARD KEYSEAT X NO KEYSEAT OR STANDARD KEYSEAT

Product Number Example → C226212 for C226 x 2-1/2 HUB

BORE TOLERANCES

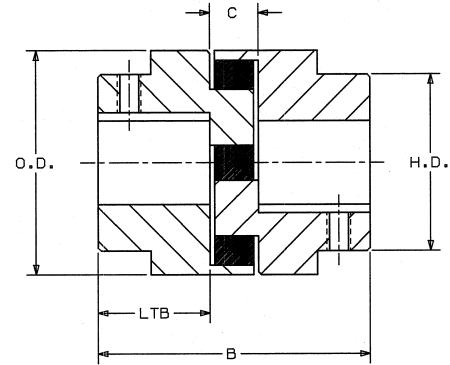
BORE SIZE	TOLERANCE
UP TO AND INCLUDING 2"	+0.005 +0.015
OVER 2"	+0.005 +0.002

Standard Keyseat Dimensions

Shaft Dia.	Width	Depth
1/2 - 9/16	1/8	1/16
5/8 - 7/8	3/16	3/32
15/16 - 1-1/4	1/4	1/8
1-5/16 - 1-3/8	5/16	5/32
1-7/16 - 1-3/4	3/8	3/16
1-13/16 - 2-1/4	1/2	1/4
2-5/16 - 2-3/4	5/8	5/16
2-13/16 - 3-1/4	3/4	3/8
3-5/16 - 3-3/4	7/8	7/16
3-13/16 - 4-1/2	1	1/2
4-9/16 - 5-1/2	1-1/4	5/8
5-9/16 - 6-1/2	1-1/2	3/4

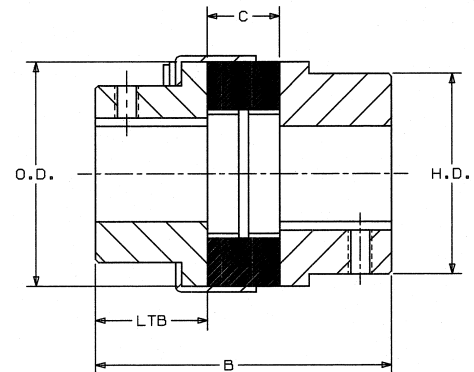
L-JAW DIMENSIONS

Coupling Size	Hub Mat'l	DIMENSIONS					Weight Lbs*
		OD	HD	LTB	B	C	
L035	S.I.	0.63	0.63	0.27	0.81	0.28	0.10
L050	S.I.	1.08	1.08	0.63	1.72	0.47	0.30
L070	S.I.	1.36	1.36	0.75	2.00	0.50	0.60
L075	S.I.	1.75	1.75	0.81	2.13	0.50	1.00
L090	S.I.	2.11	2.11	0.81	2.13	0.50	1.50
L095	S.I.	2.11	2.11	1.00	2.50	0.50	1.80
L099	S.I.	2.53	2.53	1.06	2.88	0.75	2.50
L100	S.I.	2.53	2.53	1.38	3.50	0.75	3.50
L110	S.I.	3.33	3.33	1.69	4.23	0.85	6.60
L150	S.I.	3.75	3.75	1.75	4.50	1.00	9.10
L190	C.I.	4.50	4.00	1.94	4.88	1.00	17.00
L225	C.I.	5.00	4.25	2.19	5.38	1.00	23.00
L276	C.I.	6.19	5.00	3.13	7.88	1.63	47.00



C-JAW DIMENSIONS

Coupling Size	Hub Mat'l	DIMENSIONS					Weight Lbs*
		OD	HD	LTB	B	C	
C226	C.I.	5.15	4.12	2.75	7.00	1.50	29.00
C276	C.I.	6.18	5.00	3.12	7.87	1.63	47.00
C280	C.I.	7.50	5.50	3.12	7.87	1.63	61.00
C285	C.I.	8.50	6.50	3.75	9.13	1.63	87.00
C295	C.I.	9.12	6.31	3.75	9.38	1.88	97.00
C2955	C.I.	9.12	7.12	4.25	10.38	1.88	117.00



S.I. = Powdered metal • C.I. = Cast Iron

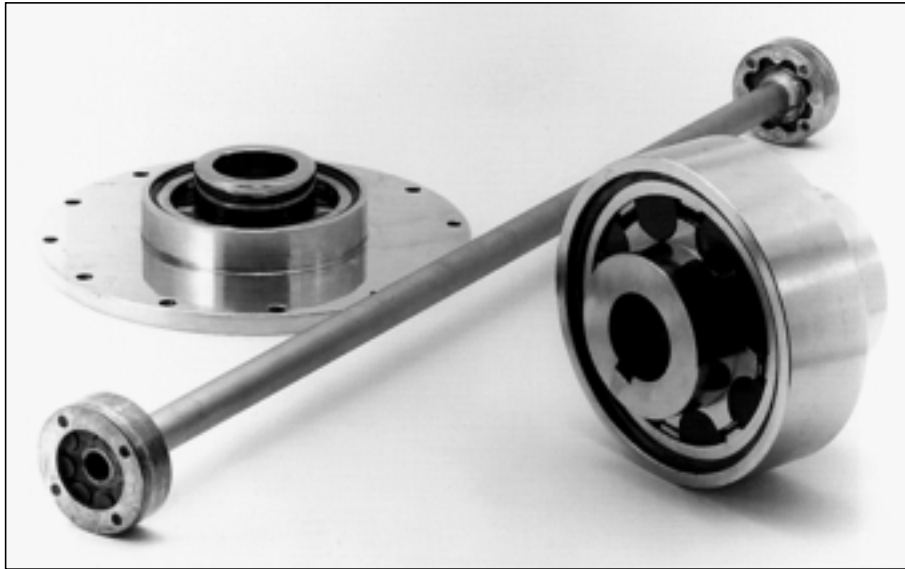
*Weight of coupling assembly with minimum bores.

NOTE: L-JAW Hubs also available in aluminum – contact factory.

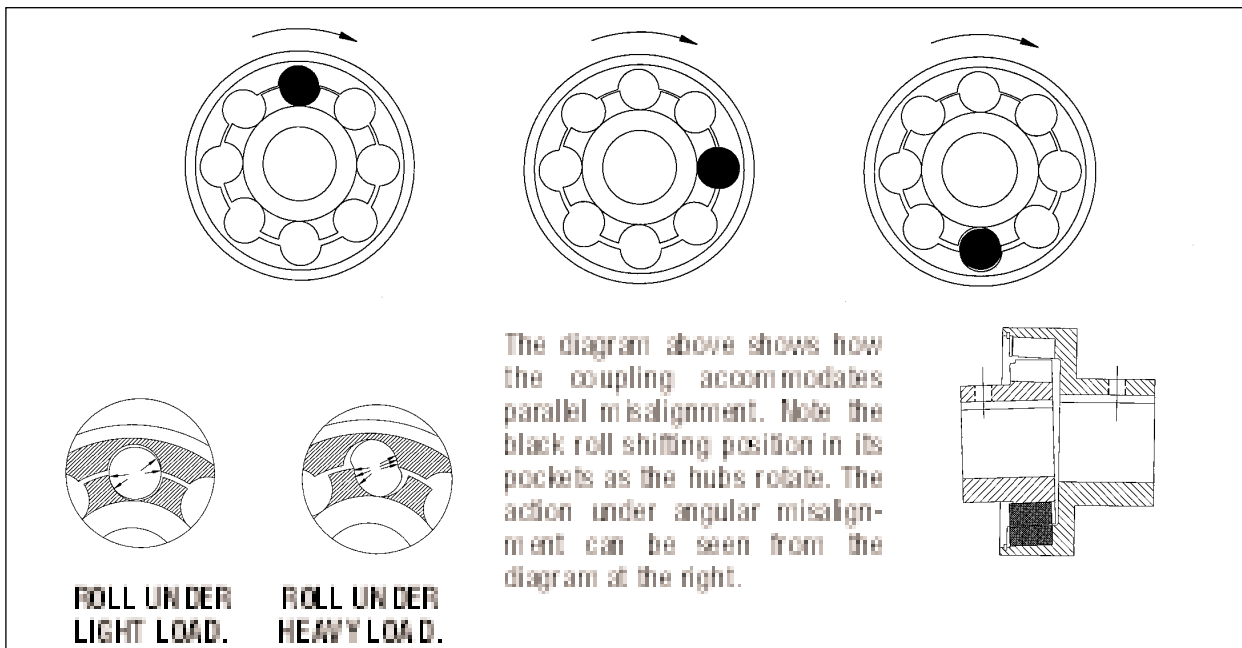
HD ELASTOMERIC COUPLINGS



SECTION F4



Couplings require no lubrication and have proven to be technically superior, low in cost, simple in design, rugged, corrosion resistant, and maintenance-free. These couplings will tolerate substantial misalignment, and control shock loads. Replacement of the urethane rolls, if required, is a simple operation, taking a matter of minutes and involving no special skills or tools. Installation and alignment is quick and easy.



HOW IT WORKS

The Elastomeric line of couplings uses the strength and resiliency of urethane, plus the rolling ability of the cylindrical elements, to transmit torque without causing lateral forces or moments to be applied to either shaft.

Misalignment is permitted by the generous clearances within the metallic parts of the coupling. The urethane rolls key the male and female hubs together and seek their own position in the pockets formed by the hubs. They

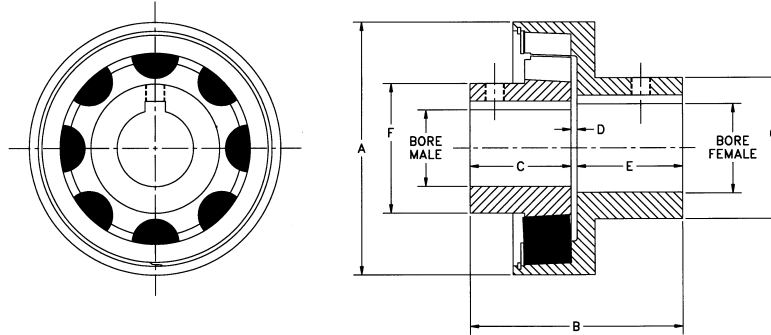
continuously roll and adjust their positions to accommodate whatever misalignment is present.

Increasing torque deforms the rolls bringing more and more urethane into play. This means that the torque-deflection characteristics of the coupling are non linear, a fact that gives the coupling a distinct advantage in controlling torsional vibrations.



STANDARD SERIES - HD ELASTOMERIC COUPLINGS

The standard HD elastomeric coupling consists of one male and one female hub with a set of eight standard straight rolls. This coupling is used for straight shaft connections. The hubs are cast iron. The rolls are made of urethane. Two grades of roll material are available. The heavy duty (blue) roll set can be used to double the torque rating of the coupling with standard rolls. Finished bored coupling hubs are provided with a class 1 clearance fit, standard keyway, and setscrew over the keyway.



RATED MISALIGNMENT: 2 DEGREES

SIZE	MAX BORE		DIMENSIONS IN INCHES							MAX RPM	WEIGHT IBS	PARALLEL OFFSET-MAX
	MALE	FEMALE	A	B	C	D	E	F	G			
HD2	0.88	1.00	3.00	2.59	1.31	0.09	1.19	1.50	1.75	3600	2.25	0.03"
HD3	1.18	1.38	4.09	3.42	1.68	0.12	1.62	2.00	2.25	3600	5.25	0.03"
HD4	1.63	1.88	5.38	4.56	2.25	0.12	2.19	2.75	3.00	3600	11.00	0.04"
HD5	2.25	2.50	7.00	5.05	2.43	0.18	2.44	3.50	4.00	3600	23.00	0.04"
HD6	2.75	3.00	8.38	6.04	2.93	0.18	2.93	4.25	4.75	2900	41.00	0.05"
HD7	3.75	3.93	11.00	8.11	3.93	0.25	3.93	5.75	6.25	2100	88.00	0.05"
HD8	5.13	5.50	15.25	11.26	5.44	0.38	5.44	8.00	8.50	1800	250.00	0.06"

HD STANDARD SERIES TORQUE RATINGS

SIZE	HEAVY DUTY (BLUE) ROLLS	
	RATED TORQUE	
	IN LBS	HP/100RPM
HD2	1000.00	1.59
HD3	3160.00	5.02
HD4	5540.00	8.79
HD5	15120.00	24.00
HD6	22000.00	34.92
HD7	54400.00	86.35
HD8	126000.00	2000.00

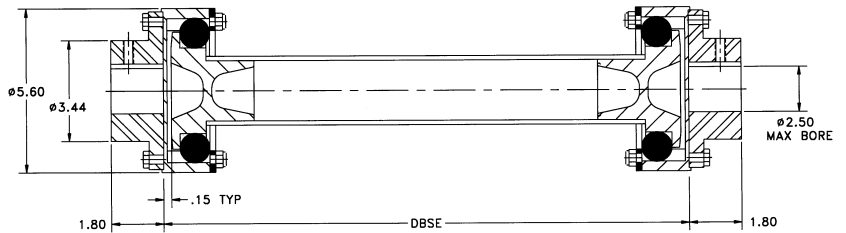
HD COUPLING SERVICE FACTOR GUIDE

TYPE OF LOAD	ELECTRIC MOTOR OR STEAM TURBINE	ENGINE-MORE THAN 6 CYLINDERS	ENGINE-LESS THAN 6 CYLINDERS
LIGHT Uniform or steady load never exceeding horsepower rating, infrequent starting, Agitators, Blowers, Conveyors, Fans, Generators, Centrifugal pumps.	1.0	1.5	2.0
MODERATE Heavy inertia, moderate shock, frequent starting. Peak loads not to exceed 125% of average horsepower. Uneven loads. Rotary pumps and compressors, Cranes, Mine and Propeller fans, Grinders, Mixers, and Gear pumps.	1.5	2.0	2.5
HEAVY Heavy shock conditions or frequent reversing. Peak loads exceed 125% of average horsepower. Reciprocating pumps and compressors, Crushers, Mills-rolling, hammer or ball, Vibrators, Punches, and shears.	2.0	2.5	3.0

HD4CS – ALL COMPOSITE FLOATING SHAFT COUPLINGS



The HD4CS coupling is a high misalignment coupling designed for cooling tower and verticle pump drive applications up to 50HP. This coupling uses TB Wood's TrueTube composite spacer tubing. The male and female coupling halves are also made of compression molded composite material. Only the hubs and mounting hardware are metal. Tightly fitted spherical urethane rolls support the composite spacer assembly while accomodating up to 2 degrees of continous angular misalignment.



COUPLING DATA

RATED TORQUE:..... 1800 IN LBS
 FREE END FLOAT:..... +/- .100"
 MAXIMUM DBSE:..... 162 INCHES
 MAX INSTALLATION CLEARANCE:..... 5 DEGREES
 WEIGHT-LBS @ 36" DBSE:..... 16.1 LBS
 WEIGHT-LBS ADD PER INCH:..... 0.11 LBS

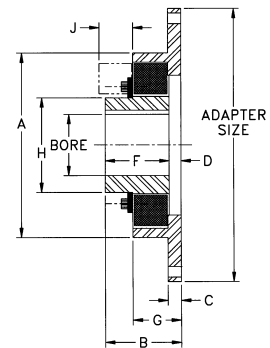
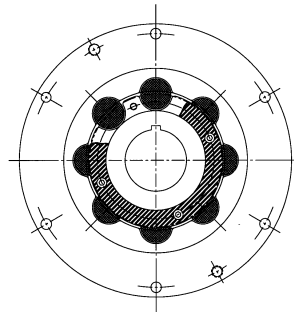
RATINGS FOR COOLING TOWER OR CENTRIFUGAL PUMP SERVICE WITH ELECTRIC MOTOR DRIVES				
OPERTING SPEED-RPM	1800	1500	1200	1000
MAXIMUM HP	50	42	40	33
ANGULAR MISALIGNMENT	2.0 DEG			
MAXIMUM DBSE-INCHES*				
HD4-CS2G (GLASS TUBE)	64	70	78	86
HD4-CS2R (HYBRID TUBE)	79	83	105	111
HD4-CS2B (CARBON TUBE)	95	104	116	127

MATERIALS USED		
CLASS	HUB	HARDWARE
A	STEEL	STEEL
C	ZINC PLATED STEEL	304 STAINLESS STEEL
E	304 STAINLESS STEEL	304 STAINLESS STEEL

*CONSULT FACTORY FOR DBSE LONGER THAN 84 INCHES

HD FLYWHEEL COUPLING

The HD Flywheel coupling is designed for use on close coupled engine driven equipment. This coupling is designed with limited clearance between the roll and the male and female coupling halves to assure long life when used with reciprocating engine drivers. Heavy duty rolls are long life when used with reciprocating engine drivers. Heavy duty rolls are standard on this series. The male half and rolls may be installed "blind" into the female half bolted to an engine flywheel. Hubs are made of steel material. Flywheel adapters are cast iron.

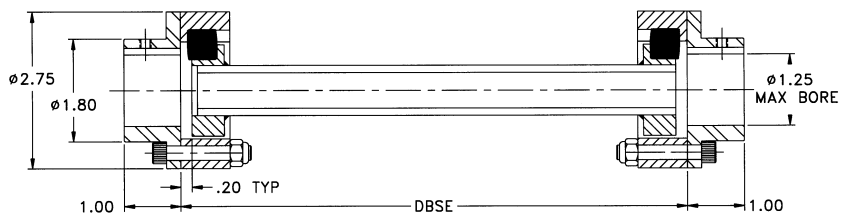


SIZE	WEIGHT lbs	WR ² LB IN ²	TQ/RAD X10 ⁶ IN LBS/RAD	MISALIGNMENT RATINGS			
				ANGULAR	PARALLEL	AXIAL	AXIAL
HD5.5	27.9	571.5	.120	1 DEG.	+/- .020"	+/- .060"	+/- .060"
HD6.5	32.9	648.0	.249	1 DEG.	+/- .020"	+/- .060"	+/- .060"
HD7.5	49.2	1071.0	.786	1 DEG.	+/- .020"	+/- .060"	+/- .060"

SIZE	RATED TORQUE		MAX BORE	DIMENSIONS IN INCHES							
	IN LBS	HP/100RPM		A	B	C	D	F	G	H	J
HD5.5	12000	19.0	2.62	7.00	3.25	0.50	0.50	2.75	1.83	3.80	1.31
HD6.5	22000	34.9	3.25	8.38	3.63	0.63	0.25	3.38	2.25	4.48	1.56
HD7.5	55440	88.0	4.25	11.00	4.50	0.63	0.25	4.25	2.91	6.14	2.06

HD1 FLOATING SHAFT COUPLING

This coupling is a low cost floating shaft design for general purpose use in low horsepower applications. The spacer is fabricated by welding male flanges to steel tubing. The female rings are die cast zinc. Barrel shaped urethane rolls are used to support the floating spacer. Hubs are mild steel. Consult factory for more information.



RATED TORQUE: 180 IN LBS
 RATED MISALIGNMENT: 1.5 DEGREES PER FLEX

Resistance to	Neoprene R	EPDM	Urethane	Hyrel®
Acetone	B	A	C	B
Ammonia, Anhydrous	A	T	T	...
Ammonium Hydroxide Solutions	A(156F)	A	A	T
ASTM hydrocarbon test fluid	X	C	T	A
ASTM oil No. 1	A	C	A(156F)	A
ASTM oil No. 3	B(156F)	C	B(156F)	A
ASTM reference fuel A	A	C	A	A
ASTM reference fuel B	C	C	B(122F)	A
ASTM reference fuel C	C	X	C	B
Benzene	C	C	C(156F)	B
Butane	A	B	A	A
Carbon Tetrachloride	C	C	C(122F)	C
Chlorobenzene	X	X	X	X
Chloroform	C	C	C	C
Chromic Acid, 10-50%	C	T	X	...
Dowtherm A Solvent	B	...	B	...
Ethyl Alcohol	A(156F)	A	C	A
Ethylene Glycol	A(156F)	A	B	A
Fuel Oil	A	X	B	A
Gasoline	B	B-C	B	A
Glycerin	A(156F)	T	A	A
Hydraulic Oils	A	...	B	A
Hydrochloric Acid, 20%	A	T	B	B
Hydrogen Peroxide, 88-12%	B	T	T	T
Isopropyl	A	T	C	A
Kerosene	B	X	C	T
Lacquer Solvents	C	...	X	B
Lubricating Oils	B(156F)	X	B	A
Methyl Alcohol	A(156F)	T	C	A
Mineral Oil	A	X	A	A
Naphtha	C	C	B	A
Nitric Acid, 10%	B	T	C	B
Nitrobenzene	C	A	C	C
Phenol	B	T	C	C
Phosphoric Acid, 20%	T	T	T	...
Pickling Solution (20% Nitric Acid, 4% HF)	B-C	X	X	X
Soap Solutions	A(156F)	T	A	A
Sodium Hydroxide, 20%	A	A	T	A
Stearic Acid	B(156F)	T	A	T
Sulfuric Acid, up to 50%	A(156F)	T	T	A
Sulfuric Acid, 50 to 80%	B-C	T	C	C
Tannic Acid, 10%	A	T	A	T
Toluene	C	C	C(122F)	B
Trichloroethylene	C	X	C	C
Turpentine	C	C	C	...
Water	A(212F)	A(156F)	A(122F)	A(156F)
Xylene	X	C	C	B

A - Fluid has little or no effect
 B - Fluid has minor to moderate effect
 C - Fluid has severe effect

T - No data; likely to be compatible
 X - No data; not likely to be compatible
 Blanks indicate that no evaluation has been attempted

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FORM-FLEX[®]

FLEXIBLE DISC

COUPLINGS

- Long Life
- Low Maintenance
- Design Flexibility

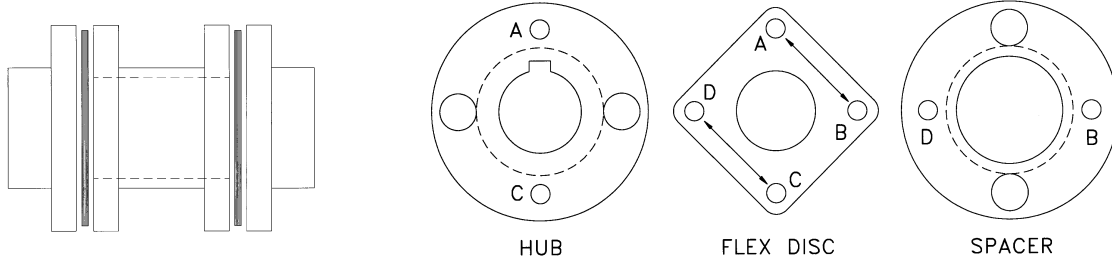




FORM-FLEX METAL DISC FLEXIBLE COUPLINGS

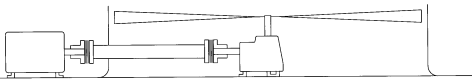
Form-Flex couplings transmit torque while compensating for angular, parallel and axial misalignment between two connected shafts. Flexible disc couplings minimize the misalignment forces on the connected equipment.

The Basic flex coupling consists of two hubs, a spacer and two flexible discs. The flex disc is an assembly of thin metal laminations. In figure shown below, flex disc holes A & C are bolted to the hub and holes B & D are bolted to the spacer. Torque is transmitted in direct tensions from A to B and from C to D through the flex disc. Misalignment is taken through bending in the link between the bolt holes.

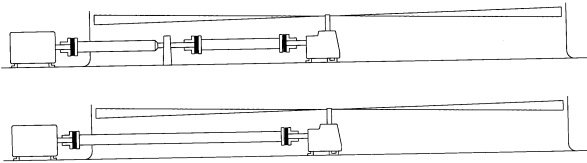


COOLING TOWER DRIVES

Form-Flex metal disc couplings are widely used in cooling fan drive applications. Form-Flex 4 bolt disc couplings offer more misalignment capacity than any competing metal disc design.

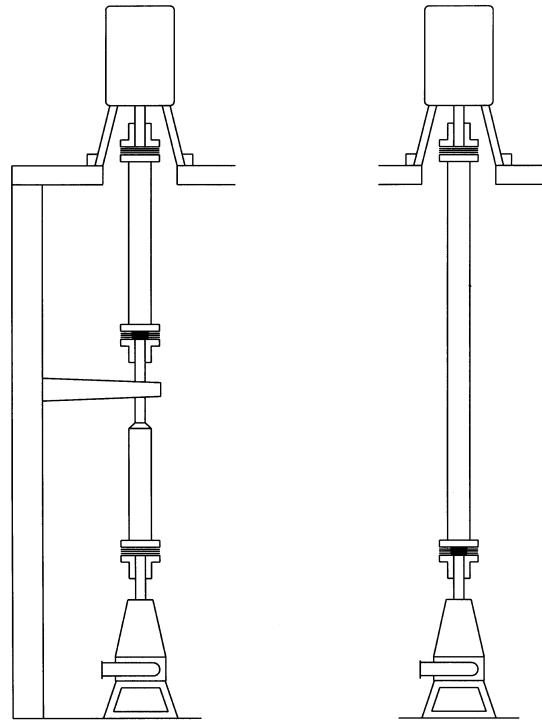


For smaller towers up to about 100 inches DBSE, TB Wood's offers steel and composite spacer tubing options. TrueTube composite torque tubes are lighter than steel and eliminate thermal growth and vibration problems.



Form-Flex composite floating shaft couplings are recommended as a replacement for older multi-section drivelines. Composite couplings can span up to 240 inches without high maintenance center support bearings.

VERTICAL PUMP DRIVES



Form-Flex floating shaft couplings are a cost-effective, maintenance free alternative to cardan U-joints for vertical pump drivelines. Form-Flex couplings are available with either steel or composite spacer tubing. Composite spacer tubing can reduce total cost by eliminating the need for bearings and support structures.

FORM-FLEX METAL DISC FLEXIBLE COUPLINGS



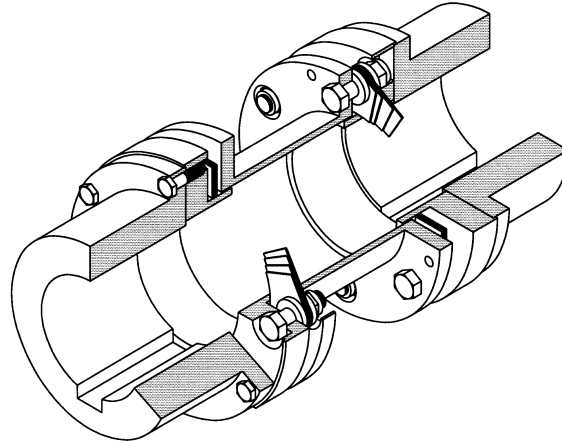
COMPLETE PRODUCT OFFERING

- TORQUE CAPACITY TO 3175 HP/100 RPM
- CLOSE COUPLE, SPACER AND FLOATING SHAFT DESIGNS

HIGH STRENGTH STEEL FASTENERS

- NO MOVING PARTS
- ZERO BACKLASH

OVER 30 YEARS EXPERIENCE IN METAL DISC COUPLINGS



HIGH STRENGTH STAINLESS STEEL FLEX DISCS

- HIGH TORSIONAL STIFFNESS
- NO LUBRICATION REQUIRED

APPLICATIONS

- PUMPS
- COMPRESSORS
- PRINTING

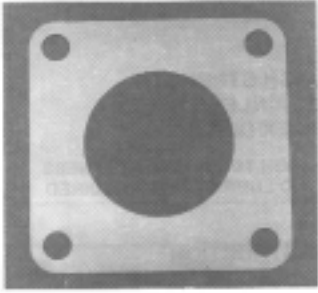
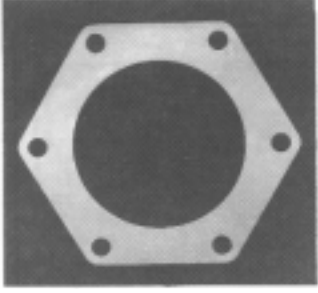
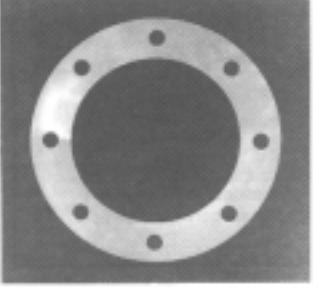
- FANS AND BLOWERS
- FOOD PROCESSING
- MACHINE TOOLS

ALL METAL CONSTRUCTION

- WIDE TEMPERATURE RANGE
- AVAILABLE IN CARBON OR STAINLESS STEEL
- COMPOSITE MATERIALS NOW AVAILABLE

TYPICAL APPLICATIONS

- **PUMPS**
Form-Flex spacer and close couple designs are ideally suited for all types of pump applications
- **ENGINE DRIVEN EQUIPMENT**
Form-Flex heavy duty FSH series couplings are commonly used to drive reciprocating compressors and other engine driven equipment
- **PRINTING**
Form-Flex couplings' high torsional stiffness allows precise registration for high quality printing lineshaft applications
- **POSITIONING SYSTEMS**
Zero backlash and high torsional stiffness make Form-Flex the first choice for servo and stepper drives

DISC STYLE	DESIGN FEATURES	WHERE USED
4 BOLT (A, M SERIES) 	Straight sided flex disc. 1 degree angular misalignment. Torque range: 35 LB. IN. to 30,240 LB. IN. Zero backlash. All machined steel construction. Stainless steel flex discs. Steel or stainless steel materials. Minimum reaction forces.	Ideal for general industrial applications with motor or turbine drivers and smooth to moderate load conditions. Low to moderate speed ranges. Serve or stepper driven positioning systems. Applications where misalignment may be a problem. 4 bolt designs offer the highest misalignment capacity of any metal disc design. Not recommended for engine driven applications.
6 BOLT (B SERIES) 	Straight sided disc. 0.7 degree angular misalignment. Torque range: 3050 LB. IN. to 233,000 LB. IN. Suitable for precision balancing. Zero backlash. All machined steel construction. Stainless steel flex discs. Steel or stainless steel materials.	Ideal for motor or turbine drivers with any load conditions. Use for reversing, reciprocating or other rough load conditions. May be used with industrial engines driving smooth loads. Moderate to high speed ranges and applications where dynamic balancing is required. Consider 6 bolt where 4 bolt size requires increasing coupling size to meet bore size requirements.
8 BOLT (D, F, H SERIES) 	Round disc design. 0.3 degree angular misalignment. Torque range: 9500 LB. IN. to 2,000,000 LB. IN. Zero backlash. Heavy duty cast construction. Alloy or stainless steel flex discs. Flywheel mount designs.	High torque-low speed applications. Industrial engines driving reciprocating equipment. Heavy-duty reversing applications. Custom designs for high torque applications.

MATERIAL CLASSES

APPLIES TO 4 AND 6 BOLT DESIGNS

MATERIAL CLASS BY COMPONENT				DESCRIPTION
COUPLING	HUB	SPACER ASSY	REPAIR KIT	
A	A	A	A	Mild steel hubs and spacer, alloy steel hardware, 300 series SS flex disc
B	B	B	A	Zinc plated steel hubs and spacer, alloy steel hardware, 300 series SS flex disc
C	B	C	E	Zinc plated steel hubs and spacer, 300 series SS flex disc and hardware
E	E	E	E	All 300 series stainless steel construction

PRODUCT FEATURES AND OPTIONS

FEATURE	AR, AK, AP AX, AY	BH, BP, BY DP*	BF	BA, DA*	A5, A7	B5	HFTH	HH, HSH, FSH
STANDARD BORE FIT	CLEARANCE	INTERFERENCE			CLEARANCE	INTERFERENCE		
SET SCREWS	STANDARD	OPTIONAL			STANDARD	OPTIONAL		
PULLER HOLES	OPTIONAL	STANDARD			OPTIONAL	STANDARD	OPTIONAL	
STANDARD FLEX DISCS	300 SERIES STAINLESS STEEL*						ALLOY STEEL	
BALANCE CLASS	AGMA 7	AGMA 8	AGMA 9	AGMA 7	N/A			N/A
DYNAMIC BALANCE	OPTIONAL				PER TBW COMMERCIAL STANDARD			N/A

*Alloy steel flex disc is standard for DA and DP series. Stainless steel is optional.

COUPLING/APPLICATION TYPES



COUPLING TYPE	TYPICAL APPLICATIONS	PAGES		
		SERIES	PAGE	
SINGLE FLEX	<p>Single flexing couplings compensate for angular and axial misalignment only. Single couplings should only be used in a three bearing system with a self-aligning bearing as shown in the illustration.</p> <p>Single couplings may also be used in pairs to support a clutch, transducer or other system component. These arrangements are double flexing and must be used with two fully supported shafts as described below.</p>		AR	F5-10
			BH	F5-11
CLOSE COUPLE DOUBLE FLEX	<p>Close couple designs accommodate angular, parallel and axial misalignment types where two fully supported shafts are located very close together. Close shaft separations are generally in the range of 1/8 to 2 inches.</p>		AX	F5-13
			AA	F5-14
			AY	F5-15
			BY	F5-16
			BA	F5-17
			DA	F5-17
SPACER COUPLINGS DOUBLE FLEX	<p>Spacer couplings are used to connect fully supported shafts with wider separations than can be reached with a close couple design. Spacer couplings allow room for installation and maintenance without moving the connected equipment. Shaft separations are generally in the range of 3 to 12 inches. These couplings accommodate angular, parallel and axial misalignment.</p>		AK	F5-18
			AP	F5-18
			BP	F5-19
			BF	F5-20
			DP	F5-21
			HSH	F5-22
			FSH	F5-23
FLOATING SHAFT COUPLINGS	<p>Floating shaft couplings are spacer style couplings which are designed to connect widely separated shafts. The coupling spacers are fabricated. Both steel and TrueTube composite tubing options are available.</p> <p>Semi-floating shaft couplings are a special single flex version of the floating shaft coupling. These may be used alone for some applications or in combination with floating shaft couplings and pillow block bearings to span long distances.</p> <p>Composite floating shaft couplings should be considered as an alternative to multiple span applications with center bearings.</p>		A5	F5-24
			A7	F5-25
			B5	F5-26
			HFTH	F5-27
			C/S	F5-29
MICRO COUPLINGS DOUBLE FLEX	<p>Form-Flex Micro Couplings are used for precision low torque applications. They are a smaller version of our 4 bolt line. Micro Couplings are constructed of aluminum for reduced inertia. Close couple and spacer designs are available.</p>		MA	F5-31
			MB	F5-31
			MC	F5-31



SELECTING AND ORDERING FORM-FLEX COUPLINGS

1) Select correct service factor from the chart below.

2) Calculate HP @ 100 or Design Torque (in lbs).

$$\text{HP @ 100} = \frac{\text{HP} \times \text{service factor} \times 100}{\text{coupling RPM}}$$

OR

$$\text{Design Torque (in lbs)} = \frac{63025 \times \text{HP} \times \text{service factor}}{\text{coupling RPM}}$$

OR

$$\text{Design Torque} = \text{Torque (in lbs)} \times \text{Service Factor}$$

3) Compare this to the HP @100 column or the Rated Torque column.

4) Check other limiting factors such as bores and overall dimensions.

5) Standard Four or Six bolt couplings can be ordered as hubs and a center assembly.
All other couplings should be ordered by description.

SERVICE FACTOR TABLE

These service factors assume a smooth motor or turbine type driver. The adders listed for other driver types must be added to the service factor shown for the driven equipment.

ADDERS FOR DRIVER TYPE		DRIVEN EQUIPMENT	S.F.	DRIVEN EQUIPMENT	S.F.	DRIVEN EQUIPMENT	S.F.
DRIVER	ADD	CONVEYORS-Uniform load (Cont.)		FANS		PAPER MILLS-(Cont.)	
TURBINE	0	Flight	1.25	Centrifugal	1.00	Couch	1.75
AC MOTORS		Oven	1.50	Cooling Tower	2.00	Cutters, Platers	2.00
With Soft Start	0	Screw	1.25	FEEDERS		Cylinders	1.75
NEMA A or B	0	CONVEYORS-Non-Uniform Load		Apron	1.25	Dryers	1.75
NEMA C or D	1	Apron	1.50	Belt	1.25	Felt Stretchers	1.25
DC MOTORS		Assembly	1.25	Disc	1.25	Felt Whipper	2.00
Shunt Type	0	Belt	1.25	Reciprocating	2.50	Presses	2.00
Series or Compound	1	Bucket	1.50	Screw	1.25	Reel	1.50
I/C ENGINES		Chain	1.50	FOOD INDUSTRY		Stock Chests	1.50
8 or More Cylinders	1	Flight	1.50	Cereal Cookers	1.25	Suction Roll	1.75
4-6 Cylinders	1.5	Oven	1.50	Dough Mixers	1.75	Washers and Thickeners	1.50
1-3 Cylinders	2	Reciprocating	2.50	Meat Grinders	1.75	Winders	1.50
		Screw	1.50	Slicers	1.75	PRINTING PRESSES	1.50
DRIVEN EQUIPMENT	S.F.	Shaker	2.50	LUMBER INDUSTRY		PUMPS	
AGITATORS		CRANES AND HOISTS		Barkers-Drum Type	2.00	Centrifugal	1.00
Pure Liquids	1.00	Main Cranes	2.00	Edger Feeders	2.00	Reciprocating	
Liquids and Solids	1.25	Reversing	2.00	Live Rolls	2.00	Double Acting	2.00
Liquids-Variable Density	1.25	Skip Hoists	1.75	Log Haul	2.00	Single Acting 1-2 Cylinders	2.25
BLOWERS		Trolley Drive	1.75	Off Bearing Rolls	2.00	Single Acting 3+ Cylinders	1.75
Centrifugal	1.00	Bridge Drive	1.75	Planers	1.75	Rotary-Gear, Lobe, Vane	1.50
Lobe	1.50	Slope	1.50	Slab Conveyors	1.50	TEXTILE INDUSTRY	
Vane	1.25	DREDGES		Sorting Table	1.50	Batchers	1.25
BRIQUETTER MACHINE	1.00	Cable Reels	1.75	Trimmer Feed	1.75	Calenders	1.75
CAN FILLING MACHINE	1.00	Conveyors	1.50	MACHINE TOOLS		Card Machines	1.50
COMPRESSORS		Maneuvering Winches	1.75	Bending Roll	2.00	Cloth Finishing Machines	1.50
Centrifugal	1.25	Pumps	1.75	Plate Planer	1.50	Dry Cans	1.75
Lobe	1.50	Screen Drives	1.75	Spindle Drives	1.50	Dryers	1.50
Reciprocating	C/F	Stracers	1.75	Table/Axis Drives	1.25	Dyeing Machinery	1.25
CONVEYORS-Uniform Load		Utility Winches	1.50	Tapping Machines	2.50	Looms	1.50
Apron	1.25	ELEVATORS		PAPER MILLS		Mangles	1.25
Assembly	1.00	Bucket	1.75	Beater & Pulper	1.75	Nappers	1.25
Belt	1.00	Centrifugal Discharge	1.50	Bleacher	1.00	Soapers	1.25
Bucket	1.25	Freight	2.00	Calendars	2.00	Spinners	1.50
Chain	1.25	Gravity Discharge	1.50	Converting Machines	1.50	Tinter Frames	1.50

COUPLING SELECTION GUIDE



- 1) CONSULT FACTORY FOR APPLICATIONS IN SHADED AREAS.
- 2) TORQUE RATINGS MAY VARY BY COUPLING SERIES.
- 3) USE THE 1.0 SERVICE FACTOR COLUMN IF A SERVICE FACTOR WAS USED IN THE HP/100 RPM CALCULATION.

TYPICAL APPLICATION CONDITIONS						
SMOOTH MOTOR OR TURBINE DRIVEN	STEADY MOTOR OR TURBINE DRIVEN	MODERATE MOTOR OR TURBINE DRIVEN	MEDIUM MOTOR OR TURBINE DRIVEN	HEAVY-HIGH TQ. MOTOR OR ENGINE DRIVEN	EXTRA HEAVY ENGINE DRIVEN	EXTREMELY HEAVY ENGINE DRIVEN
SOFT START WITH STEADY LOAD	AVERAGE STARTING LOADS AND SLIGHT TORQUE VARIATIONS	ABOVE AVERAGE STARTING LOADS AND MODERATE LOAD VARIATIONS	HIGH STARTING TORQUES AND MEDIUM TO HEAVY LOAD VARIATIONS	MILD SHOCK LOADING ENGINES. DRIVING SMOOTH LOADS. EXTREME RELIABILITY	HEAVY SHOCK LOADING OR LIGHT REVERSING	EXTREME SHOCK LOADING. FREQUENT WIDE TORQUE VARIATIONS

TYPE/SIZE	RATED TORQUE LB*IN	MAX RPM	O.D.	MAX BORE	SERVICE FACTOR								
					1.0	1.5	2.0	2.5	3.0	3.25	4.0		
					RATED HP/100 RPM AT SERVICE FACTOR SHOWN								
MICRO 4 BOLT	01	9	20,000	1.02	0.38	0.01	0.01	0.01	NOT RECOMMENDED FOR THESE APPLICATIONS				
	02	17	20,000	1.26	0.59	0.03	0.02	0.01					
	03	35	20,000	1.65	0.79	0.06	0.04	0.03					
	04	87	20,000	2.24	0.79	0.14	0.09	0.07					
A SERIES 4 BOLT	05	300	8,500	2.65	0.87	0.48	0.32	0.24					0.19
	10	800	7,500	3.19	1.25	1.27	0.85	0.63					0.51
	15	1,575	6,700	3.65	1.37	2.50	1.67	1.25					1.00
	20	2,200	6,200	4.08	1.62	3.49	2.33	1.75					1.40
	25	3,800	5,500	4.95	2.00	6.03	4.02	3.02					2.41
	30	6,930	5,000	5.63	2.37	11.00	7.33	5.50					4.40
	35	11,340	4,400	6.63	2.87	18.00	12.00	9.00	7.20				
	40	18,270	4,000	7.64	3.25	29.00	19.33	14.50	11.60				
45	30,240	3,700	8.43	3.75	48.00	32.00	24.00	19.20					
B SERIES 6 BOLT	33	3,050	17,400	4.69	2.50	4.84	3.23	2.42	1.94	1.61	1.49		
	38	6,860	14,300	5.87	3.25	10.89	7.26	5.44	4.36	3.63	3.35		
	43	13,500	12,700	6.7	3.75	21.43	14.29	10.71	8.57	7.14	6.59		
	48	18,400	11,000	7.5	4.38	29.21	19.47	14.60	11.68	9.74	8.99		
	53	24,000	10,700	7.87	4.50	38.10	25.40	19.05	15.24	12.70	11.72		
	58	41,000	9,475	9	5.13	65.08	43.39	32.54	26.03	21.69	20.02		
	63	48,000	8,590	10	5.50	76.19	50.79	38.10	30.48	25.40	23.44		
	68	72,000	7,800	10.75	6.00	114.29	76.19	57.14	45.71	38.10	35.16		
	73	125,000	6,740	12.5	6.50	198.41	132.28	99.21	79.37	66.14	61.05		
	78	233,000	5,600	15.05	7.50	369.84	246.56	184.92	147.94	123.28	113.80		
D SERIES 8 BOLT	22	9,500	3,800	6.00	2.25	15.08	10.05	7.54	6.03	5.03	4.64	3.77	
	26	16,000	3,300	6.88	2.63	25.40	16.93	12.70	10.16	8.47	7.81	6.35	
	31	24,000	2,800	8.13	3.13	38.10	25.40	19.05	15.24	12.70	11.72	9.52	
	35	44,000	2,600	9.13	3.63	69.84	46.56	34.92	27.94	23.28	21.49	17.46	
	37	60,000	2,500	10.06	3.75	95.24	63.49	47.62	38.10	31.75	29.30	23.81	
	42	73,000	2,400	11.00	4.50	115.87	77.25	57.94	46.35	38.62	35.65	28.97	
	45	99,000	2,250	11.88	4.75	157.14	104.76	78.57	62.86	52.38	48.35	39.29	
	50	128,000	2,000	13.44	5.50	203.17	135.45	101.59	81.27	67.72	62.52	50.79	
	55	189,000	1,800	15.00	6.25	300.00	200.00	150.00	120.00	100.00	92.31	75.00	
	60	261,000	1,600	16.75	7.12	414.29	276.19	207.14	165.71	138.10	127.47	103.57	
	70	415,000	1,400	18.94	7.87	658.73	439.15	329.37	263.49	219.58	202.69	164.68	
	75	533,000	1,300	20.63	8.75	846.03	564.02	423.02	338.41	282.01	260.32	211.51	
	80	685,000	1,200	22.38	9.12	1,087.30	724.87	543.65	434.92	362.43	334.55	271.83	
	85	829,000	1,100	23.75	9.62	1,315.87	877.25	657.94	526.35	438.62	404.88	328.97	
	92	1,040,000	1,000	25.75	11.00	1,650.79	1,100.53	825.40	660.32	550.26	507.94	412.70	
105	1,250,000	1,000	29.25	12.00	1,984.13	1,322.75	992.06	793.65	661.38	610.50	496.03		
160	2,000,000	900	33.50	17.00	3,174.60	2,116.40	1,587.30	1,269.84	1,058.20	976.80	793.65		

CONSULT WOOD'S SAN MARCOS



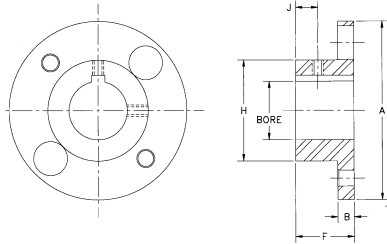
4 BOLT COUPLING HUB OPTIONS

TB Wood's

TO ORDER A COMPLETE COUPLING, ORDER TWO HUBS OF ANY TYPE AND A COUPLING (SPACER) SUB ASSEMBLY FOR THE REQUIRED COUPLING TYPE. ALL DIMENSIONS SHOWN IN INCHES.

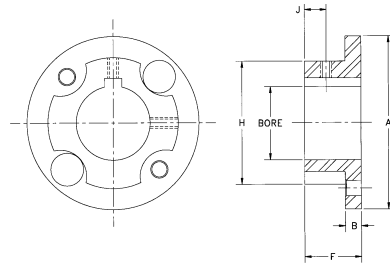
AJ STANDARD HUBS

PROVIDED WITH STRAIGHT BORE AND KEYWAY
SOLID HUBS AVAILABLE FROM STOCK



AZ OVERSIZE BORE HUBS

PROVIDED WITH STRAIGHT BORE AND KEYWAY

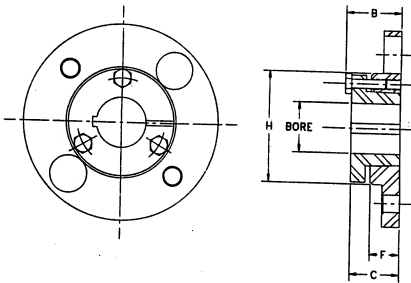


SIZE	MAX BORE	A	B	F	H	J	STD SET SCREW SIZE
05	0.87	2.65	0.25	1.00	1.30	0.38	10-24 UNC
10	1.25	3.19	0.30	1.00	1.30	0.38	1/4-20 UNC
15	1.37	3.65	0.35	1.13	2.00	0.41	1/4-20 UNC
20	1.62	4.08	0.35	1.32	2.40	0.50	1/4-20 UNC
25	2.00	4.95	0.45	1.62	2.80	0.63	5/16-18 UNC
30	2.38	5.63	0.55	1.88	3.30	0.69	5/16-18 UNC
35	2.88	6.63	0.55	2.25	4.15	0.88	1/2-13 UNC
40	3.25	7.64	0.65	2.50	4.65	0.94	1/2-13 UNC
45	3.75	8.43	0.65	3.00	5.40	1.20	1/2-13 UNC

SIZE	MAX BORE	A	B	F	H	J	STD SET SCREW SIZE
05	1.13	2.65	0.25	1.00	1.88	0.38	10-24 UNC
10	1.63	3.19	0.30	1.00	2.37	0.38	1/4-20 UNC
15	1.88	3.65	0.35	1.13	2.69	0.41	1/4-20 UNC
20	2.13	4.08	0.35	1.32	3.13	0.50	1/4-20 UNC
25	2.38	4.95	0.45	1.62	3.75	0.63	5/16-18 UNC
30	2.88	5.63	0.55	1.88	4.25	0.69	5/16-18 UNC
35	3.75	6.63	0.55	2.25	5.25	0.88	1/2-13 UNC
40	4.00	7.64	0.65	2.50	6.02	0.94	1/2-13 UNC
45	4.63	8.43	0.65	3.00	6.75	1.20	1/2-13 UNC

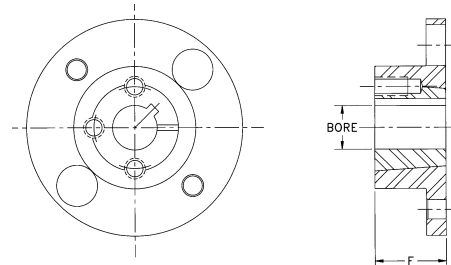
QD BORED HUBS

MATERIAL CLASS A OR B ONLY - CLASS A AVAILABLE FROM STOCK



HUBS FOR TAPER LOCK BUSHINGS

AVAILABLE MTO ONLY

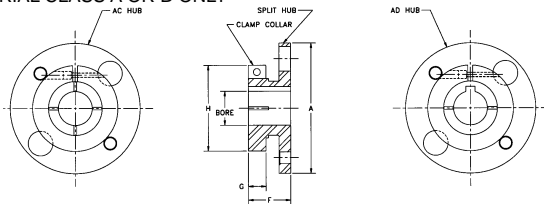


CPLG SIZE	BUSH. SIZE	BUSH. TQ. LB*IN	MAX BORE	B	C	F	H	BOLT SIZE UNC
15	JA	1000	1-1/4	1.17	1.00	.56	2.00	#10
20	JA	1000	1-1/4	1.17	1.00	.56	2.40	#10
25	SH	3500	1-11/16	1.50	1.25	.75	2.80	1/4
30	SD	5000	2	2.06	1.81	1.25	3.30	1/4
35	SK	7000	2-5/8	2.19	1.87	1.25	4.15	5/16
40	SF	11000	2-15/16	2.38	2.06	1.37	4.65	3/8

CPLG SIZE	REGULAR MOUNT				REVERSE MOUNT			
	BUSH SIZE	BUSH TQ LB*IN	MAX BORE	F	BUSH SIZE	BUSH TQ LB*IN	MAX BORE	F
15	N/A	...	...	...	1108	1300	1.12	0.87
20	1108	1300	1.12	0.87	1215	3550	1.25	1.50
25	1215	3550	1.25	1.50	1310	3850	1.37	1.00
30	1310	3850	1.37	1.00	1615	4300	1.62	1.50
35	2012	7150	2.00	1.25	2517	11600	2.50	1.75
40	2525	11300	2.50	2.50	2525	11300	2.50	2.50

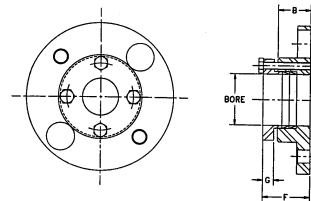
AC/AD CLAMPING HUBS

AC HUBS PROVIDED WITHOUT KEYWAY
AD HUBS PROVIDED WITH KEYWAY
MATERIAL CLASS A OR B ONLY



AL LOCK ELEMENT HUBS

THESE HUBS USE RINGFEDER TAPERED LOCKING ELEMENTS
MATERIAL CLASS A OR B ONLY



SIZE	MAX BORE		A	F	G	H	SCREW SIZE
	AC	AD					
05	1.00	0.87	2.65	1.13	.50	2.06	1/4-20 UNC
10	1.00	0.87	3.19	1.18	.50	2.06	1/4-20 UNC
	1.50	1.25		1.36	.69	2.75	5/16-18 UNC
15	1.00	0.87	3.65	1.27	.50	2.06	1/4-20 UNC
	1.75	1.37		1.46	.69	3.00	5/16-18 UNC
20	1.31	1.00	4.08	1.32	.55	2.38	1/4-20 UNC
	2.12	1.62		1.52	.75	3.50	3/8-16 UNC
25	2.13	1.62	4.95	1.62	.64	3.50	5/16-18 UNC
	2.50	1.87		1.86	.88	4.00	3/8-16 UNC

SIZE	HUB TYPE	BORE SIZE-mm		B	F	G	SCREW SIZE
		MIN	MAX				
05	AJ	6	13	1.00	1.32	.32	10-32 UNF
	AZ	14	19	1.00	1.42	.42	1/4-28 UNF
10	AJ	12	18	1.00	1.42	.42	1/4-28 UNF
	AZ	19	30	1.00	1.42	.42	1/4-28 UNF
15	AJ	12	22	1.13	1.55	.42	1/4-28 UNF
	AZ	24	35	1.13	1.55	.42	1/4-28 UNF
20	AJ	22	30	1.32	1.78	.42	1/4-28 UNF
	AZ	32	42	1.32	1.83	.51	5/16-24 UNF
25	AJ	22	32	1.63	2.05	.42	1/4-28 UNF
	AZ	35	50	1.63	2.23	.60	3/8-24 UNF

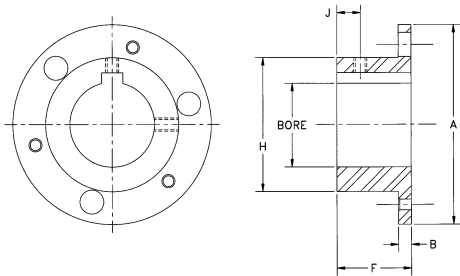
NOTE: AC and AL Hubs do not carry full torque capacity. Please consult engineering.

COUPLING HUB OPTIONS



6 BOLT COUPLING HUBS

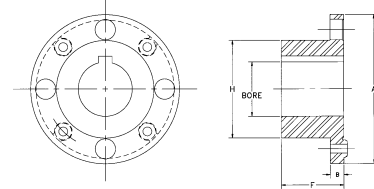
BH SERIES—USED ON BH, BP, B5, BY SERIES
 PROVIDED WITH STRAIGHT BORE AND KEYWAY
 INTERFERENCE FIT WITHOUT SETSCREWS IS RECOMMENDED



SIZE	MAX BORE	A	B	F	H	J	OPTIONAL SET SCREW SIZE
33	2.25	4.69	0.30	1.75	3.14	0.88	1/4-20 UNC
38	3.00	5.87	0.35	2.25	4.13	1.13	3/8-16 UNC
43	3.25	6.70	0.42	2.50	4.63	1.25	3/8-16 UNC
48	3.75	7.50	0.40	2.75	5.40	1.50	1/2-13 UNC
53	3.88	7.87	0.55	2.88	5.65	1.44	1/2-13 UNC
58	4.25	9.00	0.65	3.25	6.22	1.63	1/2-13 UNC
63	4.88	10.00	0.65	3.38	7.14	1.69	3/4-10 UNC
68	5.00	10.75	0.75	3.75	7.33	1.88	3/4-10 UNC
73	5.25	12.50	1.00	5.13	7.80	2.50	3/4-10 UNC
78	6.50	15.05	1.15	6.38	9.50	3.12	3/4-10 UNC

8 BOLT COUPLING HUBS

Dxx-3 CAST IRON MATERIAL, Dxx-3ST CAST STEEL MATERIAL
 USED ON HH, HSH, FSH, HFTH SERIES
 INTERFERENCE FIT WITHOUT SETSCREWS IS RECOMMENDED



SIZE	MAX BORE		A	B	F	H
	IRON	STEEL				
22	2.25	-	6.00	0.53	2.50	3.88
26	2.62	-	6.87	0.62	2.88	4.50
31	3.12	-	8.12	0.69	3.38	5.50
35	3.62	-	9.12	0.88	3.75	6.12
37	3.75	-	10.06	0.88	4.00	6.50
42	4.25	4.50	11.00	1.00	4.25	7.00
45	4.50	4.75	11.87	1.13	4.50	7.43
50	5.12	5.50	13.43	1.25	5.00	9.50
55	5.62	6.25	15.00	1.25	5.50	9.50
60	6.50	7.12	16.75	1.44	6.25	10.50
70	7.00	7.87	18.93	1.75	7.00	11.75
75	7.75	8.75	20.62	1.75	7.25	13.00
80	8.00	9.12	22.37	2.09	7.75	13.75
85	8.50	9.62	23.75	2.13	8.25	14.50
92	10.00	11.00	25.75	2.62	9.00	15.87

FORM-FLEX DISC IDENTIFICATION CHART

ALL DIMENSIONS ARE ROUNDED TO THE NEAREST FRACTIONAL SIZE FOR IDENTIFICATION PURPOSES. NO TOLERANCES ARE SPECIFIED OR IMPLIED.
 DISC SET THICKNESS VARIES FOR TYPE BA AND DA

4 BOLT DISCS	SIZE	WIDTH	I.D.	HOLE DIA	B.C. DIA	CHORD	DISC SET THICKNESS
		5	1-13/16	1	1/4	1-7/8	1-5/16	0.06
	10	2-3/16	1-3/16	1/4	2-3/8	1-5/8	0.09
	15	2-9/16	1-1/4	5/16	2-5/8	1-7/8	0.12
	20	2-13/16	1-5/8	5/16	3-1/8	2-3/16	0.14
	25	3-9/16	1-3/4	7/16	3-3/4	2-5/8	0.15
	30	4	2-1/16	1/2	4-1/4	3	0.18
	35	4-3/4	2-3/4	1/2	5-1/4	3-3/4	0.28
	40	5-1/2	3	5/8	6	4-1/4	0.30
	45	6-1/16	3-1/2	5/8	6-3/4	4-3/4	0.40
	50	7	4	3/4	7-3/4	5-1/2	0.43
	55	7-3/4	4-1/4	1	8-1/2	6	0.51
6 BOLT DISCS	SIZE	WIDTH	I.D.	HOLE DIA	B.C. DIA	CHORD	DISC SET THICKNESS
		33	3-3/4	2-3/4	1/4	3-3/4	1-7/8	0.10
	38	4-13/16	3-9/16	5/16	4-7/8	2-7/16	0.13
	43	5-11/16	3-15/16	7/16	5-9/16	2-7/8	0.16
	48	6-3/8	4-5/8	7/16	6-3/8	3-3/16	0.19
	53	6-3/4	4-3/4	1/2	6-5/8	3-5/16	0.24
	58	7-3/4	5-1/4	5/8	7-7/16	3-3/4	0.25
	63	8-1/2	6	5/8	8-3/8	4-3/16	0.30
	68	9-1/4	6-1/4	3/4	9-15/16	5	0.34
	73	10-5/8	6-5/8	1	10	5	0.44
	78	13-9/16	7-7/8	1-1/4	12	6	0.54
8 BOLT DISCS	SIZE	WIDTH	I.D.	HOLE DIA	B.C. DIA	CHORD	DISC SET THICKNESS
		22	5-5/8	3-7/8	5/16	4-3/4	1-13/16	0.17
	26	6-9/16	4-7/16	13/32	5-1/2	2-1/8	0.23
	31	7-3/4	5-1/4	15/32	6-1/2	2-1/2	0.25
	35	8-5/8	5-3/4	17/32	7-1/4	2-3/4	0.29
	37	9-5/8	6-5/16	5/8	8	3-1/16	0.31
	42	10-1/2	6-3/4	11/16	8-5/8	3-5/16	0.31
	45	11-1/4	7-1/4	3/4	9-1/4	3-1/2	0.37
	50	12-13/16	8-1/2	7/8	10-1/2	4	0.46
	55	14-3/8	9	1	11-3/4	4-1/2	0.54
	60	15-15/16	9-15/16	1-1/8	13	5	0.59
	70	18-8/8	11-1/8	1-5/16	14-3/4	5-5/8	0.78
	75	19-3/4	12	1-7/16	16	6-1/8	0.80
	80	21-7/16	13-1/8	1-9/16	17-3/8	6-5/8	0.81
	85	22-7/8	14	1-3/4	18-1/2	7-1/8	0.87
	92	24-7/8	15	1-7/8	20	7-5/8	1.00

INDUSTRY STANDARDS REFERENCED

AGMA 9002-A86—BORES AND KEYWAYS FOR FLEXIBLE COUPLINGS

AGMA 9000-C90—FLEXIBLE COUPLINGS – POTENTIAL UNBALANCED CLASSIFICATION

AGMA 514.02—LOAD CLASSIFICATION AND SERVICE FACTORS FOR FLEXIBLE COUPLINGS

API610—CENTRIFUGAL PUMPS FOR GENERAL REFINERY SERVICE, 7th Edition—BF and BP series meet the requirements of API610, 7th Edition when supplied with interference fit bores. Other coupling series can be altered to comply with API610.

NEMA MG1-14.37 AND MG1-21.81—All Form-Flex metal disc couplings meet these standards without limited end float devices

Certain tables and data in this catalog were extracted from the reference AGMA standards with the permission of the publisher, the American Gear Manufacturers Associations, 1901 North Meyer Drive, Arlington, VA 22209.

MATERIAL CLASSES APPLICABLE TO 4 AND 6 BOLT DESIGNS

- CLASS A— Mild steel hubs and spacer, alloy steel hardware, 300 series stainless steel flex discs.
- CLASS B— Zinc plated mild steel hubs and spacer, alloy steel hardware, 300 series stainless steel flex discs.
- CLASS C— Zinc plated mild steel hubs and spacer, 300 series stainless steel hardware and flex discs.
- CLASS E— All 300 series stainless steel construction.

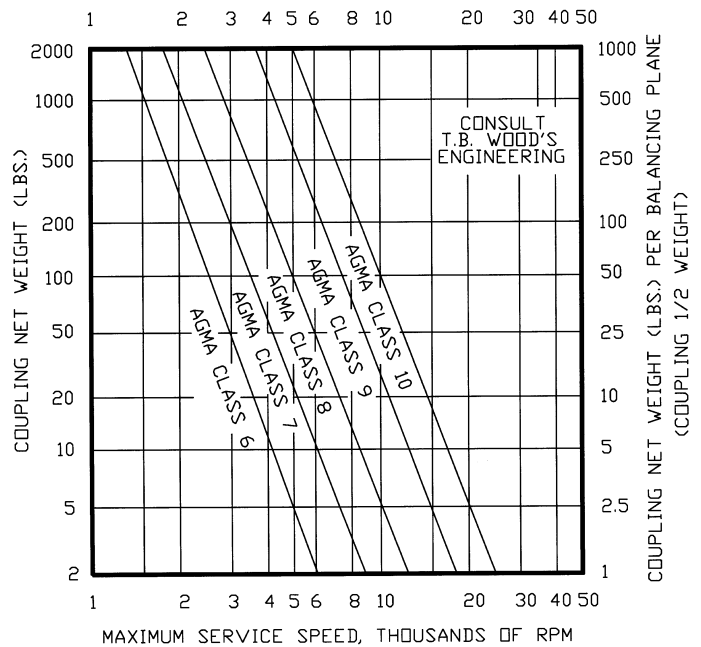
DYNAMIC BALANCING RECOMMENDATIONS

Use this graph to determine the appropriate balance class based on coupling weight and operating speed. The balance classes listed on the graph are for equipment with average sensitivity to coupling unbalance. The user should determine how sensitive the equipment train is to coupling unbalance. Use one balance class higher if your system has higher than average sensitivity to unbalance. Use one balance class lower if your system has lower than average sensitivity to unbalance. Use this guide to check your coupling selection against the recommended balance class for your operating conditions.

The following factors should be considered when determining a machine's sensitivity to coupling unbalance.

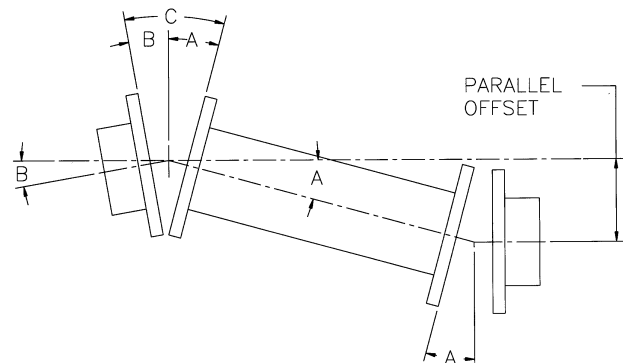
- 1) Shaft End Deflection: Machines having flexible shaft extensions are relatively sensitive to coupling unbalance.
- 2) Bearing Load Due to Coupling Weight Relative to Total Bearing Load: Machines having lightly loaded bearings, bearings that are primarily loaded by the weight of the coupling or other overhung weight are relatively sensitive to coupling unbalance.
- 3) Bearing, Bearing Support and Foundation Flexibility: Machines or systems with flexible foundations for supports for the rotating elements are relatively sensitive to coupling unbalance.
- 4) System Natural Frequencies: Machines operating at or near natural frequencies are sensitive to coupling unbalance.
- 5) Machine Separation: System having widely separated machines are relatively sensitive to coupling unbalance.
- 6) Shaft Extension Relative to Bearing Span: Machines having a short bearing span relative to their shaft extensions are sensitive to static unbalance.

BALANCE CLASS SELECTION CHART



HOW FORM-FLEX COUPLINGS ACCOMMODATE MISALIGNMENT

Double flexing metal disc couplings may be used to accommodate angular, parallel and axial misalignment. Single flexing couplings may only be used to accommodate angular and axial misalignment. A metal disc type coupling uses a double hinge effect through two flexible discs and the spacer to compensate for parallel offset misalignment between shafts. Parallel misalignment imposes the same angular deflection (A) on each flex disc. Angular misalignment of either connected shaft, (B), creates additional angular deflections which are added to the angular offset due to parallel misalignment. The total misalignment angle, (C), at the flex disc is equal to the angular offset due to parallel misalignment (A) plus the angular offset due to angular misalignment (B). The maximum misalignment angle (C) should never exceed the rated misalignment capacity of the coupling type being used. Machinery equipment changes in actual operation and over the life of the equipment. We recommend that the machinery misalignment be set as close to zero as possible when a coupling is installed. We recommend keeping the measured misalignment below 25% of the rated misalignment capacity of the coupling type used when the machinery is installed and aligned. The remaining coupling misalignment capacity will then be available to accommodate additional misalignment caused by foundation shifts, vibrations, thermal growth or other causes.



ENGINEERING STANDARDS FORM-FLEX COUPLINGS



PRODUCT FEATURES AND OPTIONS

FEATURE	AR, AK, AP AX, AY	BH, BP, BY DP*	BF	BA, DA*	A5, A7	B5	HFTH	HH, HSH, FSH
STANDARD BORE FIT	CLEARANCE		INTERFERENCE		CLEARANCE		INTERFERENCE	
SET SCREWS	STANDARD		OPTIONAL		STANDARD		OPTIONAL	
PULLER HOLES	OPTIONAL		STANDARD		OPTIONAL		STANDARD	
STANDARD FLEX DISCS	300 SERIES STAINLESS STEEL*						ALLOY STEEL	
BALANCE CLASS	AGMA 7	AGMA 8	AGMA 9	AGMA 7	N/A		N/A	
DYNAMIC BALANCE	OPTIONAL				PER TBW COMMERCIAL STANDARD			N/A

*Alloy steel flex disc is standard for DA and DP series. Stainless steel is optional.

STANDARD BORE TOLERANCES

INCH SIZE	SIZE	KEYWAY SIZE	BORE TOLERANCE		METRIC SIZE	SIZE CODE	KEYWAY SIZE	BORE TOLERANCE	
			CLEARANCE FIT	INTERFERENCE FIT				CLEARANCE FIT	INTERFERENCE FIT
1/2	12	1/8 X 1/16	.500/.501	...	6	6MM	2 X 1	.236/.237	
5/8	58	3/16 X 3/32	.625/.626	...	8	8MM	2 X 1	.315/.316	
3/4	34	3/16 X 3/32	.750/.751	.7490/.7495	10	10MM	3 X 1.4	.394/.395	
7/8	78	3/16 X 3/32	.875/.876	.8740/.8745	12	12MM	4 X 1.8	.4725/.4735	
15/16	15/16	1/4 X 1/8	.9375/.9385	.9365/.9370	13	13MM	5 X 2.3	.512/.513	
1	1	1/4 X 1/8	1.000/1.001	.9990/.9995	14	14MM	5 X 2.3	.551/.552	
1-1/8	118	1/4 X 1/8	1.125/1.126	1.1240/1.1245	15	15MM	5 X 2.3	.591/.592	
1-3/16	1316	1/4 X 1/8	1.1875/1.1885	1.1865/1.1870	16	16MM	5 X 2.3	.630/.631	
1-1/4	114	1/4 X 1/8	1.250/1.251	1.2490/1.2495	18	18MM	6 X 2.8	.709/.710	
1-3/8	138	5/16 X 5/32	1.375/1.376	1.3740/1.3745	20	20MM	6 X 2.8	.7875/.7885	
1-7/16	1716	3/8 X 3/16	1.4375/1.4385	1.4365/1.4370	22	22MM	6 X 2.8	.866/.867	
1-1/2	112	3/8 X 3/16	1.500/1.501	1.4990/1.4995	24	24MM	8 X 3.3	.945/.946	
1-5/8	158	3/8 X 3/16	1.625/1.626	1.623/1.624	25	25MM	8 X 3.3	.984/.985	
1-3/4	134	3/8 X 3/16	1.750/1.751	1.748/1.749	28	28MM	8 X 3.3	1.1025/1.1035	
1-7/8	178	1/2 X 1/4	1.875/1.876	1.873/1.874	30	30MM	8 X 3.3	1.181/1.182	
1-15/16	11516	1/2 X 1/4	1.9375/1.9385	1.9355/1.9365	32	32MM	10 X 3.3	1.260/1.261	
2	2	1/2 X 1/4	2.000/2.001	1.998/1.999	35	35MM	10 X 3.3	1.378/1.379	
2-1/8	218	1/2 X 1/4	2.125/2.1265	2.123/2.124	38	38MM	10 X 3.3	1.496/1.497	
2-1/4	214	1/2 X 1/4	2.250/2.2515	2.248/2.249	40	40MM	12 X 3.3	1.575/1.576	
2-3/8	238	5/8 X 5/16	2.375/2.3765	2.373/2.374	45	45MM	14 X 3.8	1.772/1.773	
2-7/16	2716	5/8 X 5/16	2.4375/2.4390	2.4355/2.4365	48	48MM	14 X 3.8	1.890/1.891	
2-1/2	212	5/8 X 5/16	2.500/2.5015	2.498/2.499	50	50MM	14 X 3.8	1.969/1.970	
2-5/8	258	5/8 X 5/16	2.625/2.6265	2.623/2.624	55	55MM	16 X 4.3	2.1655/2.1670	
2-3/4	234	5/8 X 5/16	2.750/2.7515	2.748/2.749	60	60MM	18 X 4.4	2.3620/2.3635	
2-7/8	278	3/4 X 3/8	2.875/2.8765	2.873/2.874	65	65MM	18 X 4.4	2.5590/2.5605	
2-15/16	21516	3/4 X 3/8	2.9375/2.9390	2.9355/2.9365	70	70MM	20 X 4.9	2.7560/2.7575	
3	3	3/4 X 3/8	3.000/3.0015	2.998/2.999	75	75MM	20 X 4.9	2.9530/2.9545	
3-1/4	314	3/4 X 3/8	3.250/3.2515	3.2470/3.2485	80	80MM	22 X 5.4	3.1500/3.1515	
3-3/8	338	7/8 X 7/16	3.375/3.3765	3.3720/3.3735	85	85MM	22 X 5.4	3.3465/3.3480	
3-1/2	312	7/8 X 7/16	3.500/3.5015	3.4970/3.4985	90	90MM	25 X 5.4	3.5435/3.5450	
3-5/8	358	7/8 X 7/16	3.625/3.6265	3.6220/3.6235	95	95MM	25 X 5.4	3.7400/3.7415	
3-3/4	334	7/8 X 7/16	3.750/3.7515	3.7470/3.7485	100	100MM	28 X 6.4	3.9370/3.9385	
4	4	1 X 1/2	4.000/4.0015	3.9970/3.9985	110	110MM	28 X 6.4	4.3310/4.3325	
4-1/4	414	1 X 1/2	4.250/4.2515	4.2465/4.2480					
4-1/2	412	1 X 1/2	4.500/4.5015	4.4965/4.4980					
4-3/4	434	1-1/4 X 5/8	4.750/4.7515	4.7465/4.7480					
5	5	1-1/4 X 5/8	...	4.9965/4.9980					
5-1/4	514	1-1/4 X 5/8	...	5.2460/5.2475					
5-1/2	512	1-1/4 X 5/8	...	5.4960/5.4975					
5-3/4	534	1-1/2 X 3/4	...	5.7460/5.7475					

BORE TOLERANCES IN INCHES
KEYWAY SIZES IN MM

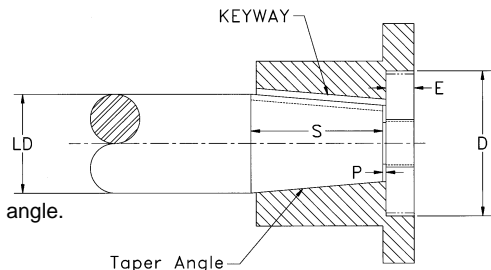
KEYWAY TOLERANCES

WIDTH	ENGLISH	+ .002"/ -0.000"
	METRIC	+ .001"/ -0.000"
HEIGHT AT SIDE OF KW	BORE <= 3.375"	+ .015"/ -0.000"
	BORE > 3.375"	+ .020"/ -0.000"

SPECIFYING TAPERED BORES

Please provide the following information for taper bore hubs:

- Drawing of HUB showing bore and keyway details.
OR
- Drawing of shaft showing:
 - (LD) Large diameter, specify with tolerance.
 - (S) Length of taper, measure parallel to shaft centerline.
 - (T) Taper angle. Specify as degrees, taper per foot or a percentage.
 - (P) Desired pull-up of hub on shaft.
 - (D) Counterbore diameter as required.
 - (E) Counterbore depth as required.
 Keyway or shaft keyseat dimensions. Specify width, depth and keyway taper angle.
-AND OPTIONALLY-
- Drawing or sketch of equipment layout in order to determine correct spacer length.



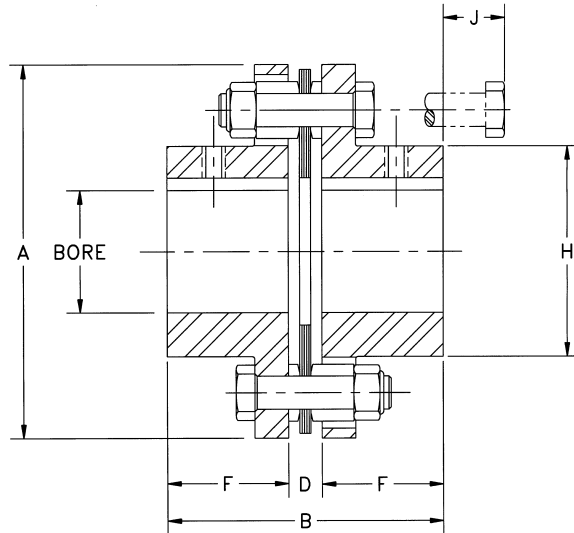


SINGLE FLEX – AR SERIES

4 BOLT SINGLE FLEXING COUPLING

(FORMERLY AJ SERIES)

The AR series coupling accommodates angular and axial misalignment only. Single couplings may be used in pairs to support a clutch, brake or other power transmission component in a floating shaft arrangement, or to support a component that is supported by a self-aligning bearing. The AR coupling consists of two hubs and one set of standard hardware, including stainless steel flex discs.



RATED MISALIGNMENT: 1.0 DEG/DISC

HUB OPTIONS	
HUB TYPE	SIZE
AJ - STANDARD	05-45
AZ OVERSIZE	05-45
QD BUSHING MOUNT	15-40
AC/AD CLAMP	05-25
AL LOCK ELEMENT	05-25
SEE PAGE F5-8	

COUPLING CONSISTS OF:
 2 – HUBS – EXAMPLE- AJ35A X 1-3/8
 1 – FLEX ASSEMBLY – EXAMPLE- A35RKA
 THIS COUPLING IS SOLD AS COMPONENTS

MATERIAL CLASSES		FLEX ASSY PART #
CLASS	SIZE	
A	05-45	AxxRKA
B	05-45	AxxRKA
C	15-45	AxxRKE
E	15-45	AxxRKE
SEE PAGE F5-4		xx = SIZE

SIZE	DIMENSIONS IN INCHES*								FREE END FLOAT +/- INCH
	MAX BORE		A	B	D DBSE	F	H	J	
	AJ	AZ							
05	0.87	1.13	2.65	2.24	0.24	1.00	1.30	0.54	0.015
10	1.25	1.63	3.19	2.27	0.27	1.00	1.80	0.59	0.020
15	1.37	1.88	3.65	2.58	0.32	1.13	2.00	0.88	0.021
20	1.62	2.13	4.08	2.98	0.34	1.32	2.40	0.79	0.027
25	2.00	2.38	4.95	3.69	0.45	1.62	2.80	1.00	0.030
30	2.38	2.88	5.63	4.23	0.47	1.88	3.30	1.14	0.032
35	2.88	3.75	6.63	5.05	0.55	2.25	4.15	0.97	0.042
40	3.25	4.00	7.64	5.60	0.60	2.50	4.65	1.30	0.050
45	3.75	4.63	8.43	6.85	0.85	3.00	5.40	0.77	0.060

* DIMENSIONS SHOWN ARE FOR AJ HUBS UNLESS OTHERWISE SPECIFIED

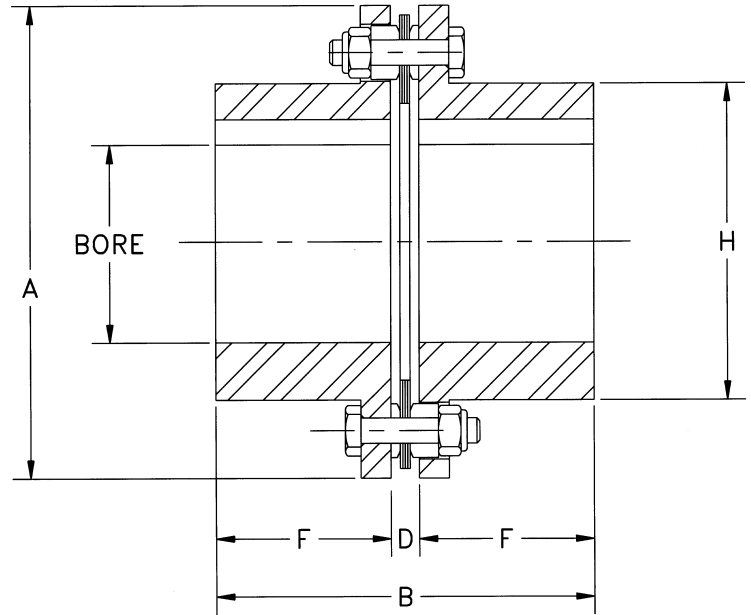
SIZE	HP PER 100 RPM 1.0 S.F	RATED TORQUE (lb. in.)	PEAK O/L TORQUE (lb. in.)	AGMA 7 MAX RPM	MAX RADIAL LOAD (lbs.)	WEIGHT (lbs.)	WR ² (lb. in. ²)	TQ/RAD X10 ⁶ (lb. in./rad)
05	0.48	300	600	8,500	34	1.24	0.96	0.28
10	1.27	800	1,600	7,500	56	1.96	2.35	0.84
15	2.50	1,575	3,150	6,700	125	2.98	4.62	1.47
20	3.49	2,200	4,400	6,200	183	4.07	7.48	2.11
25	6.03	3,800	7,600	5,500	275	7.01	20.4	3.62
30	11.00	6,930	13,860	5,000	400	10.8	41.5	5.91
35	18.00	11,340	22,680	4,400	600	17.2	88.3	11.0
40	29.00	18,270	36,540	4,000	850	25.6	178.	17.0
45	48.00	30,240	60,480	3,700	1000	35.2	292	25.8

NOTE:
 1) WEIGHT, WR² AND TORSIONAL STIFFNESS VALUES SHOWN ARE FOR AJ HUBS AT MAXIMUM BORE SIZE.

SINGLE FLEX - BH SERIES 6 BOLT SINGLE FLEXING COUPLING



The BH series coupling accommodates angular and axial misalignment only. Single couplings may be used in pairs to support a clutch, brake or other power transmission component in a floating shaft arrangement, or to support a component that is supported by a self-aligning bearing. The BH coupling consists of two hubs and one set of standard hardware, including stainless steel flex discs.



RATED MISALIGNMENT: 0.7 DEG/DISC

SIZE	DIMENSIONS IN INCHES					
	MAX BORE	A	B	D DBSE	F	H
33	2.25	4.69	3.79	0.29	1.75	3.14
38	3.00	5.87	4.84	0.34	2.25	4.13
43	3.25	6.70	5.47	0.47	2.50	4.63
48	3.75	7.50	6.00	0.50	2.75	5.40
53	3.88	7.87	6.28	0.52	2.88	5.65
58	4.25	9.00	7.06	0.56	3.25	6.22
63	4.88	10.00	7.36	0.60	3.38	7.14
68	5.00	10.75	8.35	0.85	3.75	7.33
73	5.25	12.50	11.26	1.00	5.13	7.80
78	6.50	15.05	13.70	0.94	6.38	9.50

HUB TYPES	SIZES
BH	33-78
SEE PAGE F5-9	

MATERIAL CLASSES		FLEX ASSY
CLASS	SIZE	PART #
A	33-78	BOxxRKA
B	33-78	BOxxRKA
C	38-63	BOxxRKE
E	MTO 38-63	BOxxRKE
SEE PAGE F5-4		xx = SIZE

COUPLING CONSISTS OF:
 2 - HUBS - EXAMPLE- BH48Ax3"
 1 - FLEX ASSEMBLY - EXAMPLE- BO48RKA
 THIS COUPLING IS SOLD AS COMPONENTS

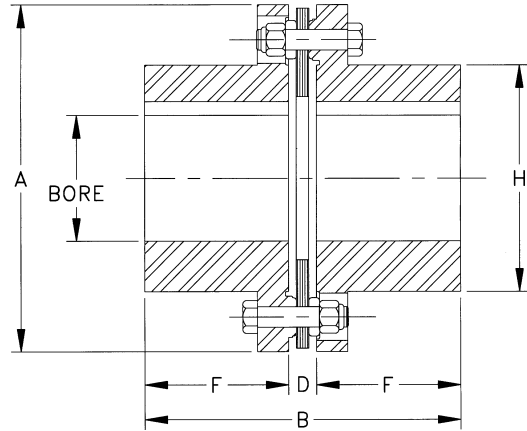
SIZE	HP PER 100 RPM	RATED TORQUE (lb. in.)	PEAK O/L TORQUE (lb. in.)	AGMA 8 MAX RPM	MAX RADIAL LOAD (lbs.)	WEIGHT (lbs.)	WR ² (lb. in. ²)	TQ/RAD X10 ⁶ (lb. in./rad)	FREE END FLOAT +/- inch
	1.0 S.F								
33	4.84	3,050	6,100	8,400	150	5.76	14.5	4.57	0.03
38	10.08	6,350	12,500	7,500	240	11.4	46.6	9.41	0.04
43	19.84	12,500	25,000	6,800	420	17.3	91.7	17.8	0.05
48	26.98	17,000	34,000	6,500	655	25.2	171	25.5	0.06
53	38.10	24,000	48,000	6,000	720	29.8	226	29.8	0.06
58	53.97	34,000	68,000	5,500	930	45.4	443	50.0	0.06
63	76.19	48,000	96,000	5,200	1,125	58.4	715	76.6	0.07
68	114.29	72,000	144,000	4,800	1,530	73.4	984	96.7	0.07
73	198.41	125,000	250,000	4,200	2,190	115	2,050	139	0.08
78	369.84	233,000	466,000	3,700	4,600	212	5,340	251	0.08

NOTE:
 1) WEIGHT, WR² AND TORSIONAL STIFFNESS VALUES SHOWN ARE FOR BH HUBS AT MAXIMUM BORE SIZE.



SINGLE FLEX- HH SERIES 8 BOLT SINGLE COUPLING

The HH series is designed for high torque, low speed applications. Hubs are cast of iron or steel. Flex discs are high strength alloy steel. Stainless steel flex discs are optional. Dynamic balancing for higher speed operation is not recommended. Single plane balancing of individual hubs is available.



SIZE	DIMENSIONS IN INCHES						
	MAX BORE		A	B	D DBSE	F	H
	IRON	STEEL					
22	2.25	-	6.00	5.43	0.43	2.50	3.87
26	2.62	-	6.87	6.29	0.53	2.88	4.50
31	3.12	3.25	8.12	7.38	0.62	3.38	5.50
35	3.62	3.81	9.12	8.16	0.66	3.75	6.12
37	3.75	4.19	10.06	8.81	0.81	4.00	6.50
42	4.25	4.50	11.00	9.31	0.81	4.25	7.00
45	4.50	4.75	11.87	9.87	0.87	4.50	7.43
50	5.12	5.50	13.43	11.06	1.06	5.00	9.50
55	5.62	6.25	15.00	12.25	1.25	5.50	9.50
60	6.50	7.12	16.75	13.84	1.34	6.25	10.50
70	7.00	7.87	18.93	15.50	1.50	7.00	11.75
75	7.75	8.75	20.62	16.05	1.55	7.25	13.00
80	8.00	9.12	22.37	17.06	1.56	7.75	13.75
85	8.50	9.62	23.75	18.12	1.62	8.25	14.50
92	10.00	11.00	25.75	19.75	1.75	9.00	15.87
105	10.50	12.00	29.25	22.75	1.75	10.50	20.00
160	16.00	17.00	33.50	26.25	2.25	12.00	24.00

RATED MISALIGNMENT: 0.3 DEG/DISC

HUB OPTIONS	
HUB TYPE	SIZE
C.I.	26-160
STL	31-160
SEE PAGE F5-9	

ORDERING: HH Series couplings are sold as complete assemblies. Please specify hub type, bore sizes, and flex disc materials. A coupling will be configured to meet your specification.

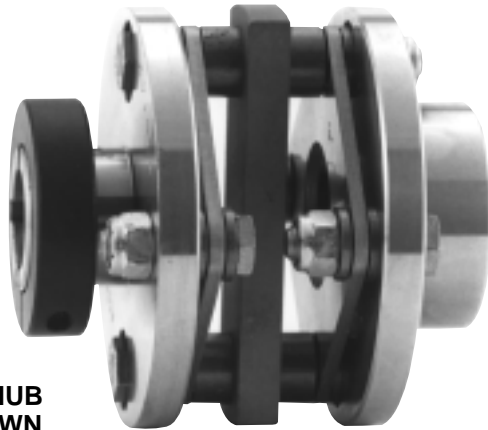
SIZE	HP PER 100 RPM 1.0S.F	RATED TORQUE (lb. in.)	PEAK O/L TORQUE (lb. in.)	AGMA 8 MAX RPM	MAX RADIAL LOAD (lbs.)	WEIGHT (lbs.)	WR ² (lb. in. ²)	TQ/RAD X10 ⁶ (lb. in./rad)	FREE END FLOAT +/- inch
22	15.08	9,500	14,250	3,800	338	17	62	12.7	0.018
26	25.40	16,000	24,000	3,300	570	26	129	22.1	0.022
31	38.10	24,000	36,000	2,800	700	43	304	36.4	0.026
35	69.84	44,000	66,000	2,600	930	61	557	52.8	0.028
37	95.24	60,000	90,000	2,500	1,170	77	820	69.6	0.031
42	115.87	73,000	109,500	2,400	1,300	95	1,250	84	0.034
45	157.14	99,000	148,500	2,250	1,700	115	1,810	106	0.036
50	203.17	128,000	192,000	2,000	2,250	163	3,290	147	0.041
55	300.00	189,000	283,500	1,800	3,200	228	5,570	243	0.046
60	414.29	261,000	391,500	1,600	4,000	328	10,300	349	0.051
70	658.73	415,000	622,500	1,400	6,100	451	18,200	482	0.058
75	846.03	533,000	799,500	1,300	6,900	588	27,400	682	0.062
80	1,087.30	685,000	1,027,500	1,200	7,500	732	42,100	779	0.068
85	1,315.87	829,000	1,243,500	1,100	8,700	840	54,700	911	0.070
92	1,650.79	1,040,000	1,560,000	1,000	11,100	1,160	89,400	1220	0.078
105	1,984.13	1,250,000	1,875,000	1,000	8,460	1,780	160,000	3200	0.085
160	3,174.60	2,000,000	3,000,000	900	11,300	2,310	325,000	5140	0.125

NOTE:
1) WEIGHT, WR² AND TORSIONAL STIFFNESS VALUES SHOWN ARE FOR CAST IRON HUBS AT MAXIMUM BORE SIZE.

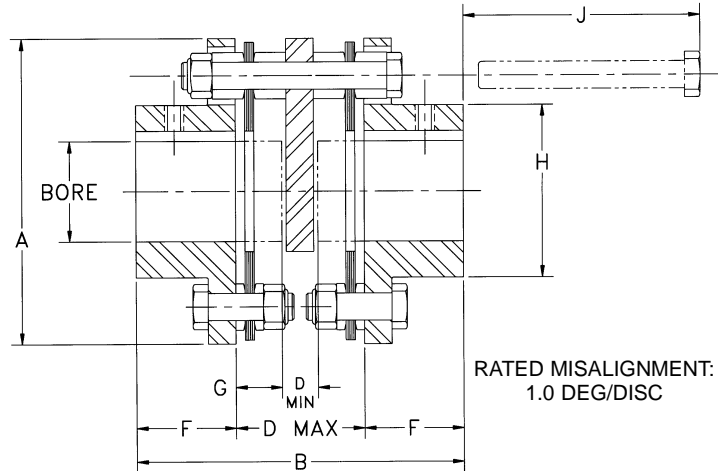
CLOSE COUPLE - AX SERIES 4 BOLT CLOSE COUPLED COUPLING (GENERAL USE)



The AX series close coupling is made up of two hubs, a steel spacer block, two stainless flex discs and AX hardware. A special bolting arrangement supports the spacer between the flex discs. The AX is an economical design that it well suited to many general purpose applications. The AX accommodates close shaft separations when is is installed with the shafts extending through the flex discs into the center of the coupling. The shaft diameter must be less than the flex disc I.D. listed in the dimensional table.



AD HUB SHOWN



**RATED MISALIGNMENT:
1.0 DEG/DISC**

HUB OPTIONS	
HUB TYPE	SIZE
AJ - STANDARD	05-45
AZ - OVERSIZE	05-45
QD BUSHING MOUNT	15-40
AC/AD CLAMP	05-25
AL LOCK ELEMENT	05-25
SEE PAGE F5-8	

COUPLING CONSISTS OF:
2 – HUBS – EXAMPLE- AJ20A x 1-1/2”
1 – SPACER ASSEMBLY – EXAMPLE- A x 20SAA
THIS COUPLING IS SOLD AS COMPONENTS

MATERIAL CLASSES		SPACER ASSEMBLY
CLASS	SIZE	PART #
A	05-45	AXxxSAA
B	05-45	AXxxSAB
C	N/A	N/A
E	N/A	N/A
SEE PAGE F5-4		xx = SIZE

SIZE	DIMENSIONS IN INCHES*										
	MAX BORE		A	B	DBSE		F	G	H	J	DISC I.D.**
	AJ	AZ			Dmin	Dmax					
05	0.87	1.13	2.65	3.34	0.38	1.34	1.00	0.48	1.30	1.68	1.00
10	1.25	1.63	3.19	3.40	0.44	1.40	1.00	0.48	1.80	1.79	1.17
15	1.37	1.88	3.65	3.80	0.63	1.54	1.13	0.44	2.00	1.85	1.28
20	1.62	2.13	4.08	4.22	0.63	1.58	1.32	0.48	2.40	1.66	1.65
25	2.00	2.38	4.95	5.36	0.75	2.12	1.62	0.69	2.80	2.39	1.78
30	2.38	2.88	5.63	6.30	1.00	2.54	1.88	0.77	3.30	3.18	2.01
35	2.88	3.75	6.63	7.17	1.13	2.67	2.25	0.77	4.15	2.81	2.71
40	3.25	4.00	7.64	8.30	1.13	3.30	2.50	1.08	4.65	4.03	3.00
45	3.75	4.63	8.43	9.55	1.50	3.55	3.00	1.03	5.40	3.28	3.51

* DIMENSIONS SHOWN ARE FOR AJ HUBS UNLESS OTHERWISE SPECIFIED.

** SHAFT I.D. MUST BE LESS THAN DISC I.D. IN ORDER TO EXTEND SHAFTS INTO COUPLING TO MEET Dmin DIMENSION.

SIZE	HP PER 100 RPM	RATED TORQUE (lb. in.)	PEAK O/L TORQUE (lb. in.)	AGMA 7 MAX RPM	WEIGHT (lbs.)	WR ² (lb. in. ²)	TQ/RAD X10 ⁶ (lb. in./rad)	FREE END FLOAT +/- inch
	1.0 S.F							
05	0.48	300	450	8,500	1.63	1.26	0.04	0.030
10	1.27	800	1,200	7,500	2.48	2.90	0.06	0.040
15	2.50	1,575	2,363	6,700	3.84	5.80	0.21	0.042
20	3.49	2,200	3,300	6,200	5.10	9.16	0.25	0.055
25	6.03	3,800	5,700	5,500	9.13	26.1	0.56	0.060
30	11.00	6,930	10,395	5,000	13.8	51.7	0.79	0.065
35	18.00	11,340	17,010	4,400	21.1	108	1.48	0.085
40	29.00	18,270	27,405	4,000	32.0	222	1.68	0.100
45	48.00	30,240	45,360	3,700	44.4	365	4.54	0.120

NOTES

1) WEIGHT, WR² AND TORSIONAL STIFFNESS VALUES SHOWN ARE FOR AJ HUBS AT MAXIMUM BORE SIZE.



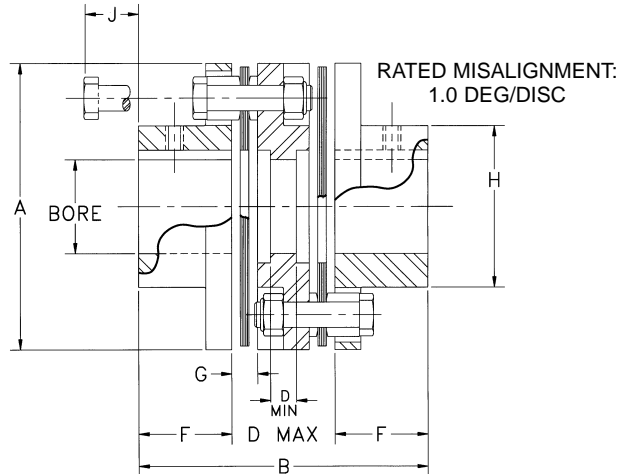
CLOSE COUPLE - AA SERIES

4 BOLT CLOSE COUPLED COUPLING

(GENERAL USE - SHORTER BOLT REMOVAL)

The AA series close coupling is made up of two hubs, a cast iron block type spacer and two sets of standard hardware. Stainless steel flex discs are standard. The AA accommodates close shaft separations when it is installed with the shafts extending through the flex discs into the center of the coupling. The shaft diameter must be less than the flex disc I.D. listed in the dimensional table. This coupling is recommended when the bolt removal length (J) makes the AX coupling impractical.

Special machined steel block spacers are also available in several sizes.



HUB OPTIONS	
HUB TYPE	SIZE
AJ - STANDARD	05-45
AZ - OVERSIZE	05-45
QD BUSHING MOUNT	15-40
AC/AD CLAMP	05-25
AL LOCK ELEMENT	05-25
SEE PAGE F5-8	

COUPLING CONSISTS OF:
 2 - HUBS - EXAMPLE- AJ35A x 2"
 1 - SPACER ASSEMBLY - EXAMPLE- AA35SAA
 THIS COUPLING IS SOLD AS COMPONENTS

MATERIAL CLASSES		SPACER ASSEMBLY
CLASS	SIZE	PART #
A	05-45	AAxxSAA
B	05-45	AAxxSAB
C	15-45	AAxxSAC
E	N/A	N/A
SEE PAGE F5-4		xx = SIZE

SIZE	DIMENSIONS IN INCHES*										
	MAX BORE		A	B	DBSE		F	G	H	J	DISC I.D.**
	AJ	AZ			Dmin	Dmax					
05	0.87	1.13	2.65	3.23	0.25	1.23	1.00	0.24	1.30	0.54	1.00
10	1.25	1.63	3.19	3.73	0.25	1.73	1.00	0.27	1.80	0.56	1.17
15	1.37	1.88	3.65	3.82	0.31	1.56	1.13	0.32	2.00	0.88	1.28
20	1.62	2.13	4.08	4.38	0.41	1.74	1.32	0.34	2.40	0.79	1.65
25	2.00	2.38	4.95	5.26	0.41	2.02	1.62	0.45	2.80	1.00	1.78
30	2.38	2.88	5.63	6.24	0.56	2.48	1.88	0.47	3.30	1.14	2.01
35	2.88	3.75	6.63	6.91	0.66	2.41	2.25	0.55	4.15	0.97	2.71
40	3.25	4.00	7.64	7.70	0.75	2.70	2.50	0.60	4.65	1.30	3.00
45	3.75	4.63	8.43	9.26	0.88	3.26	3.00	0.85	5.40	0.77	3.51

* DIMENSIONS SHOWN ARE FOR AJ HUBS UNLESS OTHERWISE SPECIFIED.

** SHAFT I.D. MUST BE LESS THAN DISC I.D. IN ORDER TO EXTEND SHAFTS INTO COUPLING TO MEET Dmin DIMENSION.

SIZE	HP PER 100 RPM	RATED TORQUE (lb. in.)	PEAK O/L TORQUE (lb. in.)	MAX RPM	WEIGHT (lbs.)	WR ² (lb. in. ²)	TQ/RAD X10° (lb. in./rad)	FREE END FLOAT +/- inch
	1.0 S.F.							
05	0.48	300	450	3,600	1.76	1.40	0.06	0.030
10	1.27	800	1,200	3,500	2.77	3.35	0.10	0.040
15	2.50	1,575	2,363	3,450	4.24	6.66	0.26	0.042
20	3.49	2,200	3,300	3,350	5.48	10.2	0.25	0.055
25	6.03	3,800	5,700	3,200	9.81	29.4	0.62	0.060
30	11.00	6,930	10,395	3,000	15.0	59	0.94	0.065
35	18.00	11,340	17,010	2,800	22.4	121	1.44	0.085
40	29.00	18,270	27,405	2,650	34.3	250	2.43	0.100
45	48.00	30,240	45,360	2,500	46.5	412	2.60	0.120

NOTES:

1) WEIGHT, WR² AND TORSIONAL STIFFNESS VALUES SHOWN ARE FOR AJ HUBS AT MAXIMUM BORE SIZE.

2) MAX RPM SHOWN BASED ON CAST IRON SPACER MATERIAL.

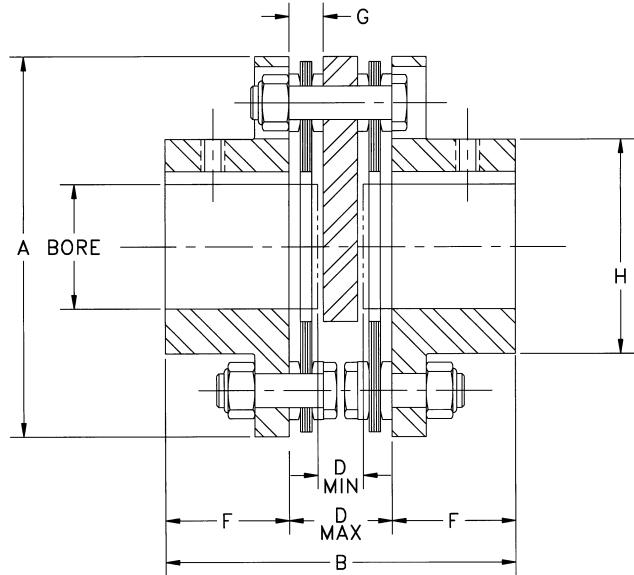
CLOSE COUPLE - AY SERIES 4 BOLT CLOSE COUPLED COUPLING (POSITIONING APPLICATIONS)



The AY series is specifically designed for positioning applications where a servo or stepper drive is C flange mounted and connects to a ball screw. The AY accommodates the small amounts of angular and parallel misalignment with an absolute minimum size package, zero backlash and high torsional stiffness. The AY is made up of two hubs, a steel spacer block, two stainless flex discs and AY hardware. The coupling must be installed as an assembled unit. The spacer is not service removable.



**AL
HUB SHOWN**



RATED MISALIGNMENT: 1.0 DEG/DISC

HUB OPTIONS	
HUB TYPE	SIZE
AJ - STANDARD	05-25
AZ - OVERSIZE	05-25
QD BUSHING MOUNT	15-25
AC/AD CLAMP	05-25
AL LOCK ELEMENT	05-25
SEE PAGE F5-8	

COUPLING CONSISTS OF:
2 - HUBS - EXAMPLE- AJ20A x 1-1/2"
1 - SPACER ASSEMBLY - EXAMPLE- AY20SAA
THIS COUPLING IS SOLD AS COMPONENTS

MATERIAL CLASSES		SPACER ASSEMBLY
CLASS	SIZE	PART #
A	05-25	AYxxSAA
B	05-25	AYxxSAB
C	N/A	N/A
E	N/A	N/A
SEE PAGE F5-4		xx = SIZE

SIZE	DIMENSIONS IN INCHES*									
	MAX BORE		A	B	DBSE		F	G	H	DISC I.D.**
	AJ	AZ			Dmin	Dmax				
05	0.87	1.13	2.65	2.85	0.49	0.85	1.00	0.24	1.30	1.00
10	1.25	1.63	3.19	2.91	0.50	0.91	1.00	0.27	1.80	1.17
15	1.37	1.88	3.65	3.33	0.56	1.07	1.13	0.32	2.00	1.28
20	1.62	2.13	4.08	3.76	0.56	1.12	1.32	0.34	2.40	1.65
25	2.00	2.38	4.95	4.77	0.87	1.53	1.62	0.45	2.80	1.78

* DIMENSIONS SHOWN ARE FOR AJ HUBS UNLESS OTHERWISE SPECIFIED.

** SHAFT I.D. MUST BE LESS THAN DISC I.D. IN ORDER TO EXTEND SHAFTS INTO COUPLING TO MEET Dmin DIMENSION.

SIZE	HP PER 100 RPM	RATED TORQUE (lb. in.)	PEAK O/L TORQUE (lb. in.)	AGMA 7 MAX RPM	WEIGHT (lbs.)	WR ² (lb. in. ²) (lb. in./rad)	TQ/RAD X10 ⁶	FREE END FLOAT +/- inch
	1.0 S.F.							
05	0.48	300	600	8,500	1.64	1.24	0.13	0.030
10	1.27	800	1,600	7,500	2.68	3.08	0.35	0.040
15	2.50	1,575	3,150	6,700	4.23	6.41	0.64	0.042
20	3.49	2,200	4,400	6,200	5.49	9.92	0.83	0.055
25	6.03	3,800	7,600	5,500	9.78	27.6	1.56	0.060

NOTE:

1) WEIGHT, WR² AND TORSIONAL STIFFNESS VALUES SHOWN ARE FOR AJ HUBS AT MAXIMUM BORE SIZE.

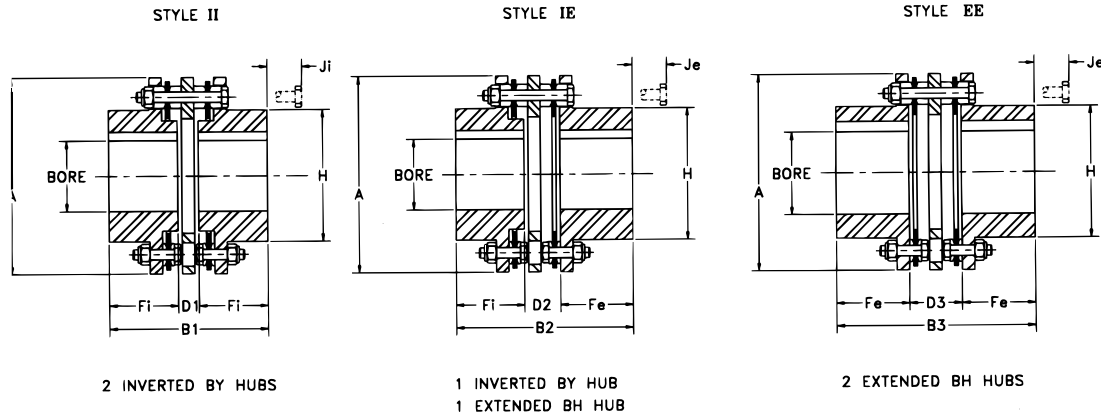


CLOSE COUPLE - BY SERIES

6 BOLT CLOSE COUPLED COUPLING

The BY series close coupling is a low cost replacement for gear or elastomeric couplings. It is ideal for use in low to moderate speed applications with motor or turbine drivers. The BY is an economical alternative to Axial Split spacer designs. The BY accommodates close shaft spacings by allowing the connected shafts to extend through the flex discs and spacer without restriction. The spacer is not service removable if the shaft gap is less than the D1 dimension shown. For shorter shaft spacings, the flex discs may still be replaced by removing the coupling bolts and shutting the spacer from side to side.

Inverted (BY) and Extended (BH) hubs are available to allow varying shaft diameters and spacing.



COUPLING CONSISTS OF:
 2 – HUBS – EXAMPLE- BY43A x 2-1/2”
 1 – SPACER ASSEMBLY – EXAMPLE- BY43SAA
 THIS COUPLING IS SOLD AS COMPONENTS

RATED MISALIGNMENT: 0.7 DEG/DISC

SIZE	DIMENSIONS IN INCHES														
	MAX BORE		A	B1	B2	B3	C	DBSE			Fi	Fe	H	Ji	Je
	BY inv	BH ext						D1	D2	D3					
33	2.00	2.25	4.69	4.13	4.530	4.93	1.350	0.43	0.930	1.43	1.85	1.75	3.14	1.46	1.06
38	2.63	3.00	5.87	4.45	5.260	6.07	1.440	0.57	1.070	1.57	1.94	2.25	4.13	1.61	0.80
43	2.88	3.25	6.70	5.41	6.265	7.12	1.645	0.81	1.465	2.12	2.30	2.50	4.63	2.51	1.60
48	3.25	3.75	7.50	5.64	6.630	7.62	1.760	0.76	1.440	2.12	2.44	2.75	5.40	2.34	1.35
53	3.63	3.88	7.87	6.77	7.600	8.43	2.050	1.01	1.840	2.67	2.88	2.88	5.65	2.93	2.10
58	4.00	4.25	9.00	7.60	8.700	9.80	2.150	1.20	2.250	3.30	3.20	3.25	6.22	4.40	3.30
63	4.50	4.88	10.00	8.40	9.230	10.06	2.550	1.20	2.250	3.30	3.60	3.38	7.14	4.00	3.17
68	4.75	5.00	10.75	9.20	10.450	11.70	2.500	1.60	2.900	4.20	3.80	3.75	7.33	5.28	4.03

SIZE	HP PER 100 RPM	RATED TORQUE (lb. in.)	PEAK O/L TORQUE (lb. in.)	AGMA 8 MAX RPM	WEIGHT (lbs.)	WR ² (lb. in. ²)	TQ/RAD X10 ⁶ (lb. in./rad)	FREE END FLOAT +/- inch
33	4.84	3,050	4,575	8,400	8.06	22.3	0.94	0.060
38	10.08	6,350	9,525	7,500	13.9	65.1	2.98	0.084
43	19.84	12,500	18,750	6,800	23.2	144	4.99	0.090
48	26.98	17,000	25,500	6,500	31.1	241	5.42	0.108
53	38.10	24,000	36,000	6,000	40.3	345	9.10	0.108
58	53.97	34,000	51,000	5,500	65.4	734	15.4	0.118
63	76.19	48,000	72,000	5,200	82.8	1150	25.8	0.140
68	114.29	72,000	108,000	4,800	106	1760	37.4	0.144

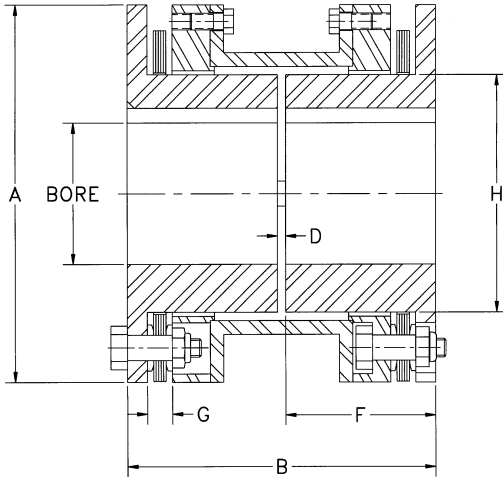
MATERIAL CLASSES		SPACER ASSEMBLY
CLASS	SIZE	PART #
A	33-68	BYxxSAA
B	33-68	BYxxSAB
C	N/A	N/A
E	N/A	N/A
SEE PAGE F5-4		xx = SIZE

NOTE:
 1) WEIGHT, WR² AND TORSIONAL STIFFNESS VALUES SHOWN ARE FOR BY HUBS AT MAXIMUM BORE SIZE.

CLOSE COUPLE - BA SERIES-6 BOLT DESIGN & DA SERIES-8 BOLT DESIGN AXIAL SPLIT SPACER COUPLINGS



Axial split spacer couplings are an ideal replacement for lubricated gear or grid couplings. Close shaft separations are met without requirements for extending shafts through hubs. The split spacer removes radially to allow removal of connected equipment. Flex discs may be replaced without disturbing the connected equipment. The axial split series features all steel construction. Stainless steel flex discs are standard for the BA series. Both stainless and high strength alloy steel flex disc options are available with the DA series.



RATED MISALIGNMENT: 0.5 DEG/DISC

SIZE	DIMENSIONS IN INCHES						
	MAX BORE	A	B	D DBSE	F	G	H
BA33	1.75	4.69	3.88	0.12	1.88	0.33	2.71
BA38	2.50	5.87	4.38	0.12	2.13	0.40	3.55
BA43	2.63	6.70	5.00	0.12	2.44	0.48	3.91
DA31	3.38	7.81	5.87	0.19	2.84	0.44	5.22
DA35	3.75	8.69	6.81	0.25	3.28	0.54	5.71
DA37	4.19	9.69	7.37	0.25	3.56	0.69	6.18
DA42	4.50	10.50	8.19	0.25	3.97	0.69	6.70
DA45	4.75	11.31	9.31	0.31	4.50	0.75	7.20
DA50	5.00	12.88	9.75	0.31	4.72	0.96	7.93
DA55	5.50	14.44	11.00	0.38	5.31	1.04	8.95
DA60	6.00	16.00	12.38	0.38	6.00	1.10	9.89
DA70	7.00	18.25	14.38	0.38	7.00	1.40	11.08

ORDERING: BA and DA Series couplings are sold as components. Please specify hub bore sizes and specify flex disc materials for DA series couplings.

SIZE	HP PER 100 RPM 1.0 S.F.	RATED TORQUE (lb. in.)	PEAK O/L TORQUE (lb. in.)	MAX RPM		WEIGHT (lbs.)	WR ² (lb. in. ²)	FREE END FLOAT +/- inch
				UNBALANCED	BALANCED			
BA33	6.29	3,965	7,930	4,200	7,000	10.7	29.2	0.060
BA38	13.10	8,255	16,510	3,800	6,300	18.1	81.7	0.084
BA43	25.79	16,250	32,500	3,700	6,000	30.2	158	0.090
DA31	38.10	24,000	48,000	3,000	5,000	45.5	372	0.052
DA35	54.13	34,100	68,200	2,800	4,500	63.4	627	0.056
DA37	81.11	51,100	102,200	2,500	4,000	87	1,110	0.062
DA42	114.76	72,300	144,600	2,300	3,700	114	1,670	0.067
DA45	130.48	82,200	164,400	2,200	3,400	152	2,550	0.072
DA50	196.83	124,000	248,000	2,000	3,300	215	4,610	0.082
DA55	300.00	189,000	378,000	1,900	2,800	317	8,550	0.092
DA60	390.48	246,000	492,000	1,800	2,500	450	14,900	0.102
DA70	549.21	346,000	692,000	1,700	2,500	664	28,800	0.115

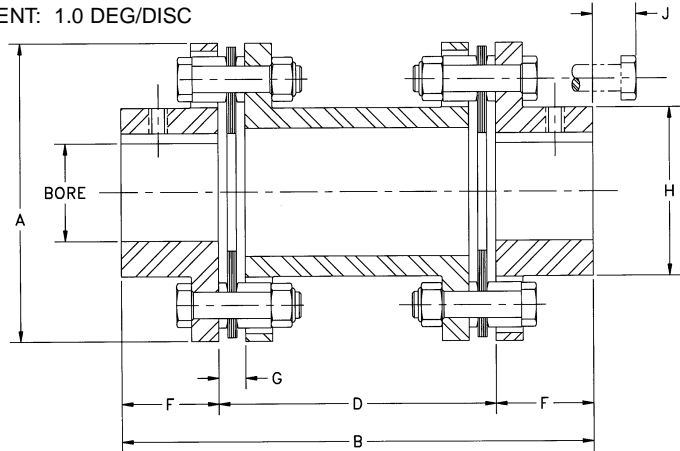
NOTE:
1) WEIGHTS AND WR² VALUES SHOWN ARE AT MAXIMUM BORE SIZE.



SPACER - 4 BOLT AK SERIES-STOCK LENGTH COUPLING AP SERIES-CUSTOM LENGTH COUPLING

The AK and AP series couplings are standard design spacer couplings. They are made up of two hubs, a one-piece machined spool spacer and two sets of flex discs with standard hardware, including stainless steel flex discs. The AK is the stocked minimum length spacer. The AP is made-to-order to any custom spacer length. AP series pricing is standard for any spacer length up to 9 inches.

RATED MISALIGNMENT: 1.0 DEG/DISC



For type AP, specify the D (DBSE) dimension in 1/100th inches.
Example: AP10A350 specifies AP10 class A 3.50" DBSE.

HUB OPTIONS	
HUB TYPE	SIZE
AJ - STANDARD	05-45
AZ - OVERSIZE	05-45
QD BUSHING MT.	15-40
AC/AD CLAMP	05-25
AL LOCK ELEMENT	05-25
SEE PAGE F5-8	

COUPLING CONSISTS OF:
2 - HUBS - EXAMPLE- AJ25A x 1-3/4"
1 - SPACER ASSEMBLY - EXAMPLE- AK25SAA
THIS COUPLING IS SOLD AS COMPONENTS

MATERIAL CLASSES		SPACER ASSEMBLY PART #	
CLASS	SIZE	AK	AP
A	05-45	AKxxSAA	APxxAddd
B	05-45	AKxxSAB	APxxBddd
C	15-45	AKxxSAC	APxxCddd
E	MTO 15-45	AKxxSAE	APxxEddd
SEE PAGE F5-4		xx = SIZE	ddd=DBSE

SIZE	DIMENSIONS IN INCHES*									FREE END FLOAT +/- inch
	MAX BORE		A	Bmin (AK)	Dmin (AK)	F	G	H	J	
	AJ	AZ								
05	0.87	1.13	2.65	3.72	1.72	1.00	0.24	1.30	0.54	0.030
10	1.25	1.63	3.19	4.06	2.06	1.00	0.27	1.80	0.56	0.040
15	1.37	1.88	3.65	4.67	2.41	1.13	0.32	2.00	0.88	0.042
20	1.62	2.13	4.08	5.02	2.38	1.32	0.34	2.40	0.79	0.055
25	2.00	2.38	4.95	6.16	2.92	1.62	0.45	2.80	1.00	0.060
30	2.38	2.88	5.63	7.57	3.81	1.88	0.47	3.30	1.14	0.065
35	2.88	3.75	6.63	8.81	4.31	2.25	0.55	4.15	0.97	0.085
40	3.25	4.00	7.64	9.88	4.88	2.50	0.60	4.65	1.30	0.100
45	3.75	4.63	8.43	11.88	5.88	3.00	0.85	5.40	0.77	0.120

* DIMENSIONS SHOWN ARE FOR AJ HUBS UNLESS OTHERWISE SPECIFIED.

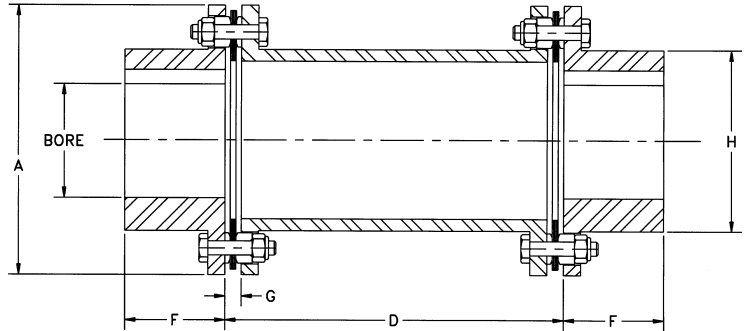
SIZE	HP PER 100 RPM 1.0 S.F.	RATED TORQUE LB*IN (lb. in.)	PEAK O/L TORQUE (lb. in.)	AGMA 7 MAX RPM	WEIGHT (lbs.)		WR ² -(lb. in. ²)		TORS. STIFFNESS 10 ⁶ (lb. in./rad)	
					AT MIN D	ADD PER in. OF D	AT MIN D	ADD PER in. OF D	K factor	Y factor
05	0.48	300	600	8,500	2.32	0.14	1.87	0.05	0.15	2.00
10	1.27	800	1,600	7,500	3.62	0.22	4.48	0.11	0.43	4.64
15	2.50	1,575	3,150	6,700	5.44	0.26	8.86	0.19	0.74	7.51
20	3.49	2,200	4,400	6,200	6.96	0.32	13.8	0.34	1.08	13.8
25	6.03	3,800	7,600	5,500	12.7	0.41	38.8	0.62	1.74	25.1
30	11.00	6,930	13,860	5,000	19.0	0.46	77.7	0.92	2.89	37.4
35	18.00	11,340	22,680	4,400	27.6	0.63	156	2.29	5.34	93
40	29.00	18,270	36,540	4,000	42.1	0.76	322	3.55	8.21	144
45	48.00	30,240	60,480	3,700	55.5	1.1	507	6.77	12.5	275

NOTES:
1) WEIGHT, WR² AND TORSIONAL STIFFNESS VALUES SHOWN ARE FOR AJ HUBS AT MAXIMUM BORE SIZE.
2) TO CALCULATE TORSIONAL STIFFNESS FOR A GIVEN SPACER LENGTH, LET L= D - Dmin
TORSIONAL STIFFNESS = 1/[(1/K) + (L/Y)]

SPACER – BP SERIES 6 BOLT SPACER COUPLING



The BP series coupling is a standard design spacer coupling using the 6 bolt disc design. The coupling is made up of two hubs, a one-piece machined spool spacer and two sets of flex discs with standard hardware, including stainless steel flex discs. The BP is made-to-order to any custom spacer length. BP series pricing is standard for any spacer length up to 9 inches.



**MEETS API 610
7TH EDITION**

RATED MISALIGNMENT: 0.7 DEG/DISC

HUB TYPES	SIZES
BH	33-78
SEE PAGE F5-9	

COUPLING CONSISTS OF:
 2 – HUBS – EXAMPLE- BH33Ax2”
 1 – SPACER ASSEMBLY – EXAMPLE-
 BP33A500 (5”DBSE)
 THIS COUPLING IS SOLD AS COMPONENTS

Specify the D (DBSE) dimension in 1/100th inches.
 Example: BP33A350 specifies BP33 class A 3.50”
 DBSE. Specify each hub bore size as required.

SIZE	DIMENSIONS IN INCHES						FREE END FLOAT +/- inch
	MAX BORE	A	Dmin	F	G	H	
33	2.25	4.69	2.09	1.75	0.285	3.14	0.060
38	3.00	5.87	2.37	2.25	0.335	4.13	0.084
43	3.25	6.70	2.95	2.50	0.465	4.63	0.090
48	3.75	7.50	3.00	2.75	0.495	5.40	0.108
53	3.88	7.87	3.91	2.88	0.520	5.65	0.108
58	4.25	9.00	4.80	3.25	0.555	6.22	0.118
63	4.88	10.00	4.88	3.38	0.600	7.14	0.140
68	5.00	10.75	6.20	3.75	0.849	7.33	0.144
73	5.25	12.50	7.70	5.13	1.000	7.80	0.156
78	6.50	14.90	8.08	6.38	0.940	9.50	0.165

MATERIAL CLASSES		SPACER ASSEMBLY
CLASS	SIZE	PART #
A	33-73	BPxxAddd
B	33-78	BPxxBddd
C	38-63	BPxxCddd
E	N/A	N/A
SEE PAGE F5-4		ddd = DBSE

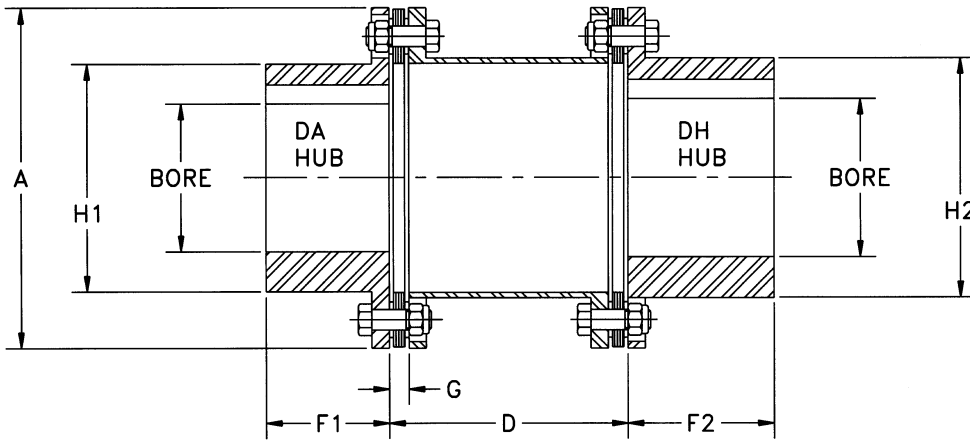
SIZE	HP PER 100 RPM	RATED TORQUE LB*IN	PEAK O/L TORQUE (lb. in.)	AGMA 8 MAX RPM	WEIGHT (lbs.)		WR ² -(lb. in. ²)		TORS. STIFFNESS x10 ⁶ (lb. in./rad)	
	1.0 S.F	(lb. in.)	(lb. in.)		AT MIN D	ADD PER in. OF D	AT MIN D	ADD PER in. OF D	K factor	Y factor
33	4.84	3,050	6,100	8,400	8.49	0.47	23.3	0.91	2.42	37.1
38	10.08	6,350	12,700	7,500	15.9	0.63	71.8	2.24	4.93	90.8
43	19.84	12,500	25,000	6,800	24.3	0.74	143	3.59	9.40	146.
48	26.98	17,000	34,000	6,500	33.2	0.87	248	5.79	13.2	235.
53	38.10	24,000	48,000	6,000	41.7	0.93	354	6.93	15.1	281.
58	53.97	34,000	68,000	5,500	65.1	0.98	707	8.14	23.7	330.
63	76.19	48,000	96,000	5,200	80.5	1.14	1,100	13.0	34.9	528.
68	114.29	72,000	144,000	4,800	104	1.17	1,560	14.7	44.0	597.
73	198.41	125,000	250,000	4,200	174	2.17	3,500	33.2	71.2	1,350.
78	369.84	233,000	466,000	3,700	302	3.28	8,540	68.0	131	2,760.

NOTES:
 1) WEIGHT, WR² AND TORSIONAL STIFFNESS VALUES SHOWN ARE FOR BH HUBS AT MAXIMUM BORE SIZE.
 2) TO CALCULATE TORSIONAL STIFFNESS FOR A GIVEN SPACER LENGTH, LET L= D - Dmin
 TORSIONAL STIFFNESS = 1/[(1/K) + (L/Y)]



SPACER - DP SERIES 8 BOLT SPACER COUPLINGS

The DP series coupling is a fully machined spacer coupling using the 8 bolt disc design used for high torque applications at higher speeds. The coupling is made up of two hubs, a one-piece machined spool spacer and two sets of flex discs and hardware. The DP is made-to-order to any customer spacer length. Both stainless and high strength alloy flex disc materials are available.



MEETS API 610
7TH EDITION

RATED MISALIGNMENT: 0.5 DEG/DISC

SPECIFY BORES & DBSE
THIS COUPLING IS SOLD AS AN ASSEMBLY.

SIZE	DIMENSIONS IN INCHES									FREE END FLOAT +/- inch
	MAX BORE		A	Dmin DBSE	F1 DA	F2 DH	G	H1 DA	H2 DH	
	DA	DH								
DP31	3.38	3.63	7.81	4.38	2.84	3.37	0.44	5.22	5.50	0.052
DP35	3.75	4.00	8.69	4.75	3.28	3.75	0.54	5.71	5.88	0.056
DP37	4.00	4.50	9.69	5.00	3.56	4.00	0.69	6.18	6.50	0.062
DP42	4.50	4.75	10.50	5.13	3.97	4.25	0.69	6.70	7.00	0.067
DP45	4.75	5.13	11.31	5.25	4.50	4.50	0.75	7.20	7.44	0.072
DP50	5.00	5.38	12.88	7.25	4.72	5.00	0.96	7.93	8.38	0.082
DP55	5.50	6.00	14.44	7.62	5.31	5.50	1.04	8.95	9.44	0.092
DP60	6.00	6.50	16.00	8.13	6.00	6.00	1.10	9.89	10.25	0.102
DP70	7.00	7.50	18.25	9.25	7.00	7.00	1.40	11.06	11.75	0.115

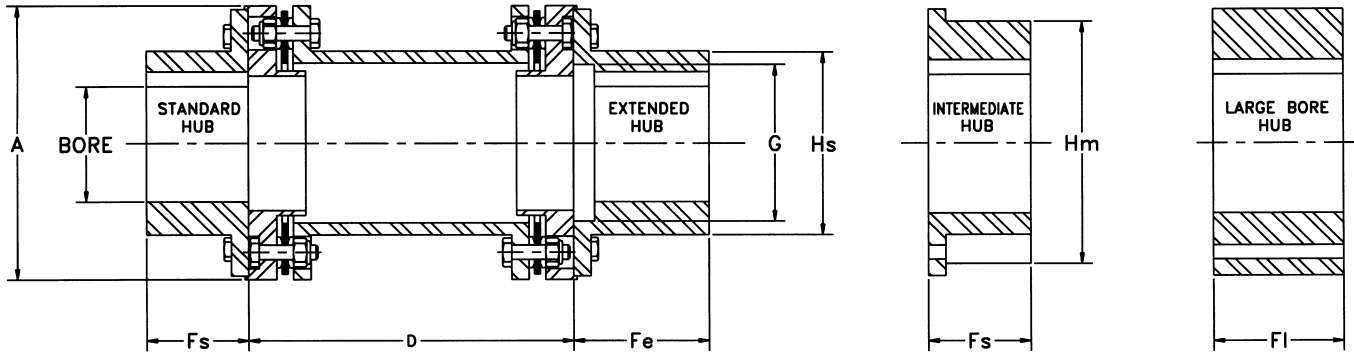
SIZE	HP PER 100 RPM 1.0 S.F	RATED TORQUE LB*IN (lb. in.)	PEAK O/L TORQUE (lb. in.)	AGMA 8 MAX RPM	WEIGHT (lbs.)		WR ² -(lb. in. ²)		TORS. STIFFNESS x10 ⁶ (lb. in./rad)	
					AT MIN D	ADD PER in. OF D	AT MIN D	ADD PER in. OF D	K factor	Y factor
DP31	38.10	24,000	48,000	6,500	37.2	0.60	289	4.30	16.7	168
DP35	69.84	44,000	88,000	5,700	54.5	0.97	525	8.16	26.7	318
DP37	95.24	60,000	120,000	5,400	69.3	1.05	839	10.7	34.7	417
DP42	115.87	73,000	146,000	5,100	91.4	1.54	1,270	18.2	47.2	711
DP45	136.98	86,300	172,600	4,800	118	1.66	1,910	23.4	61.0	912
DP50	203.17	128,000	256,000	4,300	175	2.28	3,560	38.3	78.7	1,490
DP55	300.00	189,000	378,000	4,100	260	3.03	6,690	63.2	133	2,470
DP60	414.29	261,000	522,000	3,600	367	4.01	11,600	101	187	3,950
DP70	658.73	415,000	830,000	3,300	559	5.46	23,500	172	285	6,690

NOTES:
 1) WEIGHT, WR² AND TORSIONAL STIFFNESS VALUES SHOWN ARE FOR DA HUBS AT MAXIMUM BORE SIZE.
 2) TO CALCULATE TORSIONAL STIFFNESS FOR A GIVEN SPACER LENGTH, LET L= D - Dmin
 TORSIONAL STIFFNESS = 1/[(1/K) + (L/Y)]

SPACER - BF SERIES 6 BOLT DROP OUT SPACER COUPLING



The BF series is designed for moderate service in higher speed applications. The coupling consists of factory assembled spacer unit which mounts between two hubs. The spacer assembly drops out as one unit for easy maintenance. The BF has all steel construction with standard stainless steel flex discs. The coupling is manufactured to meet AGMA class 9 balance requirements. Dynamic balancing for higher speed operation is also available. Standard length spacers are stocked. Pricing is standard for any spacer length up to the Dmax value listed. Longer spacer lengths are also available. Models BF15 and BF20 use a 4 bolt disc design.



RATED MISALIGNMENT: 0.7 DEG/DISC

SPECIFY BORES & DBSE
THIS COUPLING IS SOLD AS COMPONENTS
UNLESS BALANCED.

MEETS API 610
7TH EDITION

MEETS API 610
8TH EDITION WHEN
FURNISHED BALANCED

SIZE	DIMENSIONS IN INCHES												
	MAX BORE			A	DBSE			Fs STD INTERM.	Fe EXT	FI LRG	G MAX	Hs STD EXT	Hm INTERM.
	STD EXT	INTERM. HUB	LARGE HUB		Dmin	Dmax*	STOCK						
15(3)	1.50	1.88	2.38	3.65	3.43	9.00	3.5, 4.37	1.31	1.69	1.63	2.09	2.33	2.75
20(3)	1.88	2.13	2.75	4.19	3.43	9.00	3.5, 4.37, 5	1.56	2.06	1.81	2.56	2.81	3.00
33	2.25	-	3.25	4.93	3.09	9.00	3.5, 5, 7	2.00	2.50	2.06	3.13	3.38	-
38	3.00	-	4.00	6.00	3.50	9.00	5, 7	2.63	3.25	2.75	4.13	4.43	-
43	3.50	-	4.50	6.77	4.43	9.00	5, 7	3.12	3.75	3.00	5.00	5.25	-
48	3.75	-	5.00	7.62	4.50	9.00	5, 7	3.25	4.00	3.25	5.38	5.63	-
53	4.13	-	-	8.00	5.69	9.00	7	3.63	4.38	-	5.75	6.13	-
58	4.63	-	-	9.00	6.88	9.00	7	4.12	5.00	-	6.50	6.88	-
63	5.13	-	-	10.00	6.93	9.00	7	4.50	5.38	-	7.25	7.63	-
68	5.63	-	-	11.00	7.56	12.00	-	5.00	6.00	-	8.00	8.38	-
73	6.50	-	-	12.75	11.00	15.00	-	5.13	6.38	-	8.38	9.38	-
78	7.50	-	-	15.30	11.88	15.00	-	6.38	7.38	-	10.19	10.75	-

* Longer D dimensions are available. Consult factory for pricing.

SIZE	HP PER 100 RPM	RATED TORQUE LB*IN (lb. in.)	PEAK O/L TORQUE (lb. in.)	MAX RPM		WEIGHT (lbs.)		WR ² -(lb. in. ²)		TORSIONAL STIFFNESS		FREE END FLOAT +/- inch
				AGMA 9	BALANCED	AT MIN D	ADD PER (in.) OF D	AT MIN D	ADD PER (in.) OF D	x10 ⁶ (lb. in./rad)		
										K factor	Y factor	
(3)15	2.50	1,575	3,150	13,500	23,500	7.38	0.12	11.75	0.05	0.46	2.09	0.045
(3)20	3.49	2,200	4,400	12,500	20,000	10.1	0.19	23.0	0.15	0.87	3.72	0.055
33	4.84	3,050	6,100	11,000	17,400	14.8	0.47	43.3	0.91	2.49	37.1	0.060
38	10.89	6,860	13,720	9,800	14,300	28.1	0.63	129	2.24	5.04	90.8	0.084
43	21.43	13,500	27,000	8,800	12,700	44.5	0.70	276	3.05	9.66	124	0.090
48	29.21	18,400	36,800	8,300	11,000	54.3	0.79	422	4.61	12.8	187	0.108
53	38.10	24,000	48,000	7,800	10,700	72	0.88	633	5.92	14.9	240	0.108
58	65.08	41,000	82,000	7,000	9,475	107	0.98	1,200	8.14	23.4	330	0.118
63	76.19	48,000	96,000	6,700	8,590	134	1.14	1,870	13.0	33.5	528	0.140
68	114.29	72,000	144,000	6,200	7,800	188	1.48	3,020	16.2	44.7	569	0.144
73	198.41	125,000	250,000	5,700	6,740	272	2.02	5,990	27.0	75.1	1,100	0.156
78	369.84	233,000	466,000	5,000	5,600	475	3.21	14,700	63.8	142.	2,590	0.170

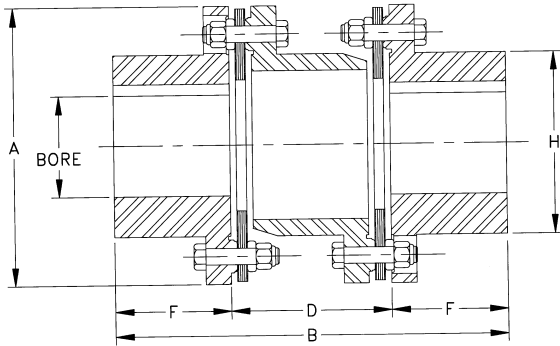
NOTES:

- 1) WEIGHT, WR² AND TORSIONAL STIFFNESS VALUES SHOWN ARE FOR STANDARD HUBS AT MAXIMUM BORE SIZE.
- 2) TO CALCULATE TORSIONAL STIFFNESS FOR A GIVEN SPACER LENGTH, LET L= D - Dmin
TORSIONAL STIFFNESS = 1/[(1/K) + (L/Y)]
- 3) 4 BOLT DISC DESIGN



SPACER - HSH SERIES 8 BOLT SPACER COUPLINGS

The HSH series is designed for high torque, low speed applications. Hubs and spacers are cast of iron or steel. Flex discs are high strength alloy steel. Stainless steel flex discs are optional. Dynamic balancing for higher speed operation is not recommended. Single plane balancing of hubs and spacers is available.



SIZE	DIMENSIONS IN INCHES							
	MAX BORE		A	B	D DBSE	F	G	H
	IRON	STEEL						
22	2.25	-	6.00	8.00	3.00	2.50	0.43	3.87
26	2.62	-	6.87	9.50	3.50	2.88	0.55	4.50
31	3.12	3.25	8.12	10.87	4.12	3.37	0.62	5.50
35	3.62	3.81	9.12	12.06	4.56	3.75	0.66	6.12
37	3.75	4.19	10.06	13.12	5.12	4.00	0.81	6.50
42	4.25	4.50	11.00	13.93	5.43	4.25	0.81	7.00
45	4.50	4.75	11.87	14.75	5.75	4.50	0.87	7.43
50	5.12	5.50	13.43	16.81	6.81	5.00	1.06	9.50
55	5.62	6.25	15.00	18.68	7.68	5.50	1.25	9.50
60	6.50	7.12	16.75	20.93	8.43	6.25	1.34	10.50
70	7.00	7.87	18.93	23.62	9.62	7.00	1.50	11.75
75	7.75	8.75	20.62	25.00	10.50	7.25	1.53	13.00
80	8.00	9.12	22.37	26.87	11.37	7.75	1.56	13.75
85	8.50	9.62	23.75	28.62	12.12	8.25	1.62	14.50
92	10.00	11.00	25.75	31.00	13.00	9.00	1.75	15.87
105	10.50	12.00	29.25	34.25	13.25	10.50	1.75	20.00
160	16.00	17.00	33.50	40.25	16.25	12.00	2.25	24.00

ORDERING: HSH
Series couplings are sold as complete assemblies. Please specify hub type, bore sizes, and flex disc materials. A coupling will be configured to meet your specifications.

RATED MISALIGNMENT: 0.3 DEG/DISC

HUB TYPES	SIZES
C.I.	22-160
STL	31-160
SEE PAGE F5-9	

SIZE	HP PER 100 RPM	RATED TORQUE (lb. in.)	PEAK O/L TORQUE (lb. in.)	MAX RPM	WEIGHT (lbs.) (1)	WR ² (lb. in. ²) (1)	TQ/RAD X10 ⁶ (1) (lb. in./rad)	FREE END FLOAT +/- inch
	1.0S.F							
22	15.08	9,500	14,250	3,800	22	80	1.5	0.036
26	25.40	16,000	24,000	3,300	33	161	2.3	0.044
31	38.10	24,000	36,000	2,800	56	401	2.9	0.052
35	69.84	44,000	66,000	2,600	81	750	6.5	0.056
37	95.24	60,000	90,000	2,500	103	1,130	9.9	0.062
42	115.90	73,000	109,500	2,400	133	1,740	6.9	0.067
45	157.10	99,000	148,500	2,250	161	2,510	14.8	0.072
50	203.20	128,000	192,000	2,000	223	4,580	44.3	0.082
55	300.00	189,000	283,500	1,800	302	7,480	54.2	0.092
60	414.30	261,000	391,500	1,600	435	13,800	80.1	0.102
70	658.70	415,000	622,500	1,400	640	25,900	144	0.115
75	846.00	533,000	799,500	1,300	839	38,600	148	0.125
80	1,087.00	685,000	1,027,500	1,200	1,070	59,800	205	0.136
85	1,316.00	829,000	1,243,500	1,100	1,240	79,400	204	0.140
92	1,651.00	1,040,000	1,560,000	1,000	1,710	131,000	384	0.156
105	1,984.00	1,250,000	1,875,000	1,000	C/F	C/F	C/F	0.170
160	3,175.00	2,000,000	3,000,000	900	C/F	C/F	C/F	0.250

NOTE:
1) WEIGHT, WR² AND TORSIONAL STIFFNESS VALUES SHOWN ARE FOR CAST IRON HUBS AT MAXIMUM BORE SIZE.

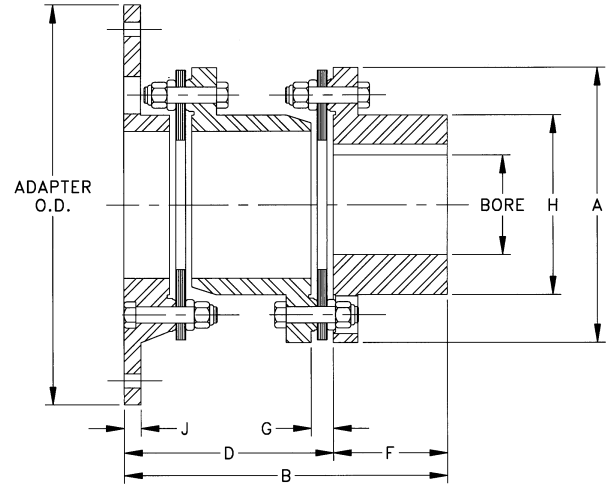
SPACER - FSH SERIES 8 BOLT FLYWHEEL MOUNT COUPLINGS



The FSH series is designed for high torque, low speed applications. Hubs and spacers are cast of iron or steel. Adapter plates are cast grey or ductile iron. Flex discs are high strength alloy steel. Stainless flex discs are optional. Dynamic balancing for higher speed operation is not recommended. Single plane balancing of flywheel adapters, hubs and spacers is available.

HUB TYPES	SIZES
C.I.	31-105
STL.	31-105
SEE PAGE F5-9	

ORDERING: FSH Series couplings are sold as complete assemblies. Please specify hub type, bore sizes, and flex disc materials. A coupling will be configured to meet your specifications.



RATED MISALIGNMENT: 0.3 DEG/DISC

STANDARD ADAPTER SIZES							
SIZE	OD	SAE BOLTING			HD BOLTING		
		BC	HOLE QTY	HOLE SIZE	BC	HOLE QTY	HOLE SIZE
10	10.375	9.625	6	13/32	9.500	8	15/32
12	12.375	11.625	8	13/32	11.500	8	17/32
14	13.875	13.125	8	13/32	12.500	8	21/32
18	18.375	17.250	8	17/32	16.750	8	25/32
20	20.375	19.250	8	17/32	18.500	8	29/32
22	22.500	21.375	6	21/32	20.500	8	1-1/32
26	26.500	25.250	12	21/32	24.500	12	1-1/32
28	28.875	27.250	12	25/32	26.875	12	1-1/32

SIZE	DIMENSIONS IN INCHES										AVAILABLE ADAPTER SIZES							
	MAX BORE		A	B	D DBSE	F	G	H	J	X = STOCK SIZE 0 = MTO								
	IRON	STEEL								10	12	14	18	20	22	26	28	
31	3.12	3.25	8.12	8.68	5.31	3.37	0.62	5.50	0.50	O	O	X	X	O	O			
35	3.62	3.81	9.12	9.62	5.87	3.75	0.66	6.12	0.50	O	O	X	X	O	X			
37	3.75	4.19	10.06	10.62	6.62	4.00	0.81	6.50	0.56			O	O	O	O			
42	4.25	4.50	11.00	11.37	7.12	4.25	0.81	7.00	0.63			O	X	O	X	X	X	
45	4.50	4.75	11.87	12.00	7.50	4.50	0.87	7.43	0.69			O	X	O	X	X	X	
50	5.12	5.50	13.43	13.75	8.75	5.00	1.06	8.37	0.75				X	O	X	X	X	
55	5.62	6.25	15.00	15.38	9.87	5.50	1.25	9.50	0.88				X	O	X	X	X	
60	6.50	7.12	16.75	17.12	10.87	6.25	1.34	10.50	1.00				X	O	X	X	X	
70	7.00	7.87	18.93	19.43	12.43	7.00	1.50	11.75	1.00					X	X	X	X	
75	7.75	8.75	20.62	20.75	13.50	7.25	1.53	13.00	1.13						O	O	X	
80	8.00	9.12	22.37	22.50	14.75	7.75	1.56	13.75	1.25						O	O	X	
85	8.50	9.62	23.75	23.93	15.68	8.25	1.62	14.50	1.25								X	
92	10.00	11.00	25.75	26.25	17.25	9.00	1.75	15.87	1.38								X	
105	10.50	12.00	29.25	27.77	17.27	10.50	1.75	20.00	1.75								X	

SIZE	HP PER 100 RPM	RATED TORQUE (lb. in.)	PEAK O/L TORQUE (lb. in.)	MAX RPM (2)	WEIGHT (lbs.) (1)	WR ² (lb. in. ²) (1)	TQ/RAD X10 ⁶ (1) (lb. in./rad)	FREE END FLOAT +/- inch
	1.0S.F							
31	38.10	24,000	36,000	2,800	48	442	2.95	0.052
35	69.84	44,000	66,000	2,600	64	661	6.69	0.056
37	95.24	60,000	90,000	2,500	87	1,170	10.3	0.062
42	115.9	73,000	109,500	2,400	115	1,860	7.03	0.067
45	157.1	99,000	148,500	2,250	138	2,500	15.4	0.072
50	203.2	128,000	192,000	2,000	202	5,550	48.8	0.082
55	300.0	189,000	283,500	1,800	263	8,000	58.6	0.092
60	414.3	261,000	391,500	1,600	359	12,700	86.5	0.102
70	658.7	415,000	622,500	1,400	559	26,200	161	0.115
75	846.0	533,000	799,500	1,300	766	43,600	160	0.125
80	1087	685,000	1,027,500	1,200	930	60,100	225	0.136
85	1316	829,000	1,243,500	1,100	1,110	83,000	222	0.140
92	1651	1,040,000	1,560,000	1,000	1,460	124,000	433	0.156
105	1984	1,250,000	1,875,000	1,000	C/F	C/F	C/F	0.170

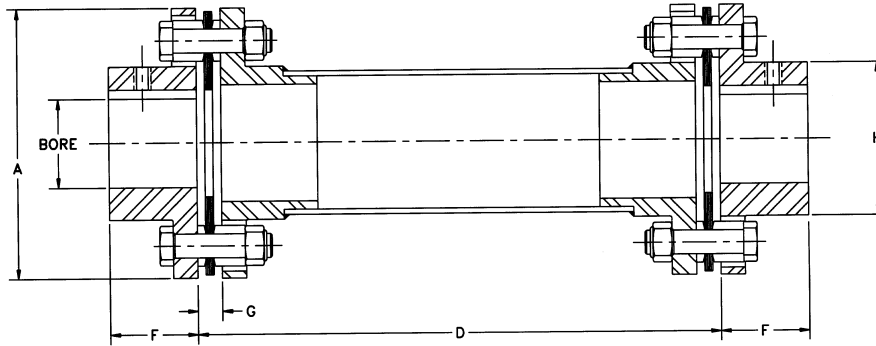
1) WEIGHT, WR² AND TORSIONAL STIFFNESS VALUES SHOWN ARE FOR CAST IRON HUBS AT MAXIMUM BORE SIZE AND MINIMUM AVAILABLE ADAPTER O.D.
 2) MAX RPM LISTED IS FOR SMALLEST ADAPTER SIZE. CONSULT FACTORY FOR SPEED RATINGS BY ADAPTER SIZE.



FLOATING SHAFT - A5 SERIES

4 BOLT FLOATING SHAFT COUPLINGS

The A5 series is used for spacer lengths that are longer than can be spanned economically with spacer couplings. The A5 series has a welded tubular spacer assembly along with two hubs and standard hardware, including stainless steel flex discs. The A5 is Made to Order to any custom spacer length. A5 series standard pricing is listed for D dimensions up to 36" and for D dimensions from 36" to maximum D at 1800 RPM.



RATED MISALIGNMENT: 1.0 DEG/DISC

HUB OPTIONS	
HUB TYPE	SIZE
AJ - STANDARD	05-45
AZ - OVERSIZE	05-45
QD BUSHING MOUNT	15-40
AC/AD CLAMP	05-25
AL LOCK ELEMENT	05-25
SEE PAGE F5-8	

ORDERING: A5 Series couplings are sold as complete assemblies. Please specify hub types and bore sizes, DBSE (D) dimension, speed for dynamic balancing, and material class. A coupling will be configured to meet your specifications.

ORDERING TYPE A6 FOR VERTICAL APPLICATIONS LONGER THAN 30" DBSE. A THRUST BUTTON WILL BE ADDED ON THE LOWER END OF THE SPACER TO SUPPORT THE WEIGHT OF THE SPACER

MATERIAL CLASSES	
CLASS	SIZE
A	05-45
B	05-45
C	15-45
E	15-45
SEE PAGE F5-4	

SIZE	DIMENSIONS IN INCHES*							MAX DBSE (D INCHES)					
	MAX BORE		A	Dmin	F	G	H	FOR RPM SHOWN					
	AJ	AZ						1800	1500	1200	900	750	600
05	0.87	1.13	2.65	4.00	1.00	0.24	1.30	51	56	62	71	78	87
10	1.25	1.63	3.19	4.00	1.00	0.27	1.80	62	69	76	88	96	107
15	1.37	1.88	3.65	5.00	1.13	0.32	2.00	64	71	79	91	99	111
20	1.62	2.13	4.08	5.00	1.32	0.34	2.40	73	81	90	103	113	126
25	2.00	2.38	4.95	5.00	1.62	0.45	2.80	79	87	97	112	122	137
30	2.38	2.88	5.63	6.00	1.88	0.47	3.30	85	94	102	120	132	147
35	2.88	3.75	6.63	7.00	2.25	0.55	4.15	97	107	119	137	150	168
40	3.25	4.00	7.64	7.00	2.50	0.60	4.65	103	113	126	146	160	178
45	3.75	4.63	8.43	8.00	3.00	0.85	5.40	113	125	139	160	175	196

* DIMENSIONS SHOWN ARE FOR AJ HUBS UNLESS OTHERWISE SPECIFIED

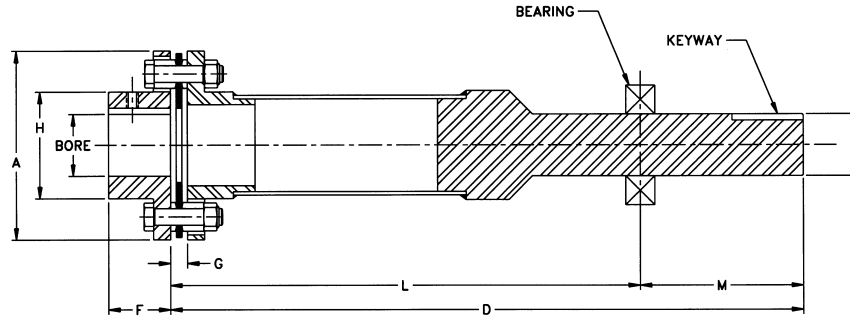
SIZE	HP PER 100 RPM 1.0 S.F	RATED TORQUE (lb. in.)	PEAK O/L TORQUE (lb. in.)	WEIGHT (lbs.)		WR ² -(lb. in. ²)		TORS. STIFFNESS 10° (lb. in./rad)		FREE END FLOAT +/- inch
				AT D = 20"	ADD PER in. OF D	AT D = 20"	ADD PER in. OF D	K factor	Y factor	
				05	0.48	300	600	4.37	0.11		2.38	0.03	0.04	1.12	0.030
10	1.27	800	1,600	5.64	0.10	5.88	0.07	0.11	2.81	0.040
15	2.50	1,575	3,150	7.48	0.10	10.3	0.07	0.13	2.81	0.042
20	3.49	2,200	4,400	11.5	0.21	18.3	0.22	0.35	8.77	0.055
25	6.03	3,800	7,600	17.0	0.20	45.0	0.29	0.52	12.0	0.060
30	11.00	6,930	13,860	25.7	0.29	90.6	0.56	0.98	22.7	0.065
35	18.00	11,340	22,680	34.8	0.40	180	1.32	1.99	53.9	0.085
40	29.00	18,270	36,540	49.9	0.46	356	1.95	3.14	79.3	0.100
45	48.00	30,240	60,480	75.7	0.54	614	3.22	5.57	131	0.120

NOTES:
 1) WEIGHT, WR² AND TORSIONAL STIFFNESS VALUES SHOWN ARE FOR AJ HUBS AT MAXIMUM BORE SIZE.
 2) TO CALCULATE TORSIONAL STIFFNESS FOR A GIVEN SPACER LENGTH, LET L= D - 20"
 TORSIONAL STIFFNESS = 1/[(1/K) + (L/Y)]

FLOATING SHAFT - A7 SERIES 4 BOLT SEMI-FLOATING SHAFT COUPLINGS



The A7 coupling is a single flexing coupling designed for use in widely spaced three bearing systems. The shaft end of the coupling must be supported by a self-aligning bearing. A full floating coupling may be used in combination with the semi-floating coupling to span longer distances, or a V-Belt drive or other component may be mounted to the shaft end. This A7 is made-to-order to any custom spacer length. A7 series standard pricing is listed at D dimensions up to 36 inches and D dimensions between 36 inches and max L at 1800 RPM motor speed.



RATED MISALIGNMENT: 1.0 DEG/DISC

HUB OPTIONS	
HUB TYPE	SIZE
AJ - STANDARD	05-45
AZ - OVERSIZE	05-45
QD BUSHING MOUNT	15-40
AC/AD CLAMP	05-25
AL LOCK ELEMENT	05-25
SEE PAGE F5-8	

ORDERING: A7 Series couplings are sold as complete assemblies. Please specify hub types and bore sizes, DBSE (D) dimension, speed for dynamic balancing, and material class. A coupling will be configured to meet your specifications.

MATERIAL CLASSES	
CLASS	SIZE
A	10-45
B	05-45
C	15-45
E	15-45
SEE PAGE F5-4	

SIZE	DIMENSIONS IN INCHES*										MAX DBSE (D INCHES) FOR RPM SHOWN					
	MAX BORE		A	Dmin	F	G	H	K	L	M	KEYWAY SIZE	1800	1500	1200	900	600
	AJ	AZ														
10	1.25	1.63	3.19	20	1.00	0.27	1.80	1.25	16.50	3.50	.25 x .12	62	69	76	88	107
15	1.37	1.88	3.65	20	1.13	0.32	2.00	1.25	16.06	3.94	.25 x .12	64	71	79	91	111
20	1.62	2.13	4.08	20	1.32	0.34	2.40	1.50	15.75	4.25	.37 x .18	73	81	90	103	126
25	2.00	2.38	4.95	20	1.62	0.45	2.80	1.75	15.25	4.75	.37 x .18	79	87	97	112	137
30	2.38	2.88	5.63	20	1.88	0.47	3.30	2.00	14.50	5.50	.50 x .25	85	94	102	120	147
35	2.88	3.75	6.63	20	2.25	0.55	4.15	2.50	13.25	6.75	.62 x .31	97	107	119	137	168
40	3.25	4.00	7.64	20	2.50	0.60	4.65	3.00	12.75	7.25	.75 x .37	103	113	126	146	178
45	3.75	4.63	8.43	20	3.00	0.85	5.40	3.44	12.75	7.75	.87 x .43	113	125	139	160	196

* DIMENSIONS SHOWN ARE FOR AJ HUBS UNLESS OTHERWISE SPECIFIED

SIZE	HP PER	RATED TORQUE (lb. in.)	PEAK O/L TORQUE (lb. in.)	MAX RADIAL LOAD-(lbs.)	WEIGHT (lbs.)		WR ² -(lb. in. ²)		TORS. STIFFNESS		FREE END FLOAT +/- inch
	100 RPM				AT	ADD/ (in.)	AT MIN	ADD/ (in.)	10° (lb. in./rad)		
	1.0 S.F	D = 20"	OF D	D = 20"	OF D	K factor	Y factor				
10	1.27	800	1,600	34	5.37	0.10	3.30	0.07	0.26	2.81	0.020
15	2.50	1,575	3,150	56	6.65	0.10	5.72	0.07	0.28	2.81	0.021
20	3.49	2,200	4,400	125	11.0	0.21	11.0	0.22	0.56	8.77	0.027
25	6.03	3,800	7,600	183	14.7	0.20	24.9	0.29	0.91	12.0	0.030
30	11.00	6,930	13,860	275	19.7	0.29	52.4	0.56	1.52	22.7	0.032
35	18.00	11,340	22,680	400	34.7	0.40	106	1.32	3.03	53.9	0.042
40	29.00	18,270	36,540	600	51.6	0.46	211	1.95	5.26	79.3	0.050
45	48.00	30,240	60,480	850	76.5	0.54	378	3.22	8.56	131	0.060

NOTES:

- 1) WEIGHT, WR² AND TORSIONAL STIFFNESS VALUES SHOWN ARE FOR AJ HUBS AT MAXIMUM BORE SIZE.
- 2) TO CALCULATE TORSIONAL STIFFNESS FOR A GIVEN SPACER LENGTH, LET L = D - 20"
TORSIONAL STIFFNESS = 1/[(1/K) + (L/Y)]

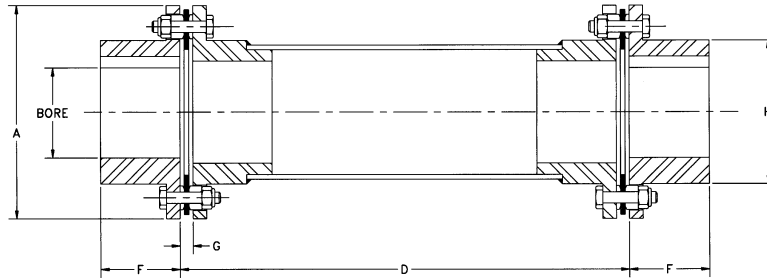


FLOATING SHAFT – B5 SERIES

6 BOLT FLOATING SHAFT COUPLINGS

The B5 series is used for spacer lengths that are longer than can be spanned economically with standard spacer couplings. The B5 has a welded tubular spacer assembly along with two hubs and standard hardware, including stainless steel flex discs. The B5 is made-to-order to any custom spacer length. B5 series standard pricing is listed at D dimensions up to 36 inches and D dimensions between 36 inches and max D at 1800 RPM motor speed.

Consult factory for vertical modifications and semi-floating designs.



RATED MISALIGNMENT: 0.7 DEG/DISC

HUB TYPES	SIZES
BH	33-78
SEE PAGE F5-9	

MATERIAL CLASSES	
CLASS	SIZE
A	33-78
B	33-78
C	38-63
E	N/A
SEE PAGE F5-4	

ORDERING: B5 Series couplings are sold as complete assemblies. Please specify hub types and bore sizes, DBSE (D) dimension, speed for dynamic balancing, and material class. A coupling will be configured to meet your specifications.

SIZE	DIMENSIONS IN INCHES*						MAX DBSE (D INCHES)					
	MAX BORE	A	Dmin	F	G	H	FOR RPM SHOWN					
							1800	1500	1200	900	750	600
33	2.25	4.69	4.25	1.75	0.285	3.14	79	87	97	112	122	137
38	3.00	5.87	6.00	2.25	0.335	4.13	97	107	119	137	150	168
43	3.25	6.70	7.00	2.50	0.465	4.63	103	113	126	146	160	178
48	3.75	7.50	7.50	2.75	0.495	5.40	113	125	139	160	175	196
53	3.88	7.87	7.50	2.88	0.520	5.65	113	125	139	160	175	196
58	4.25	9.00	7.50	3.25	0.555	6.22	123	136	151	170	186	208
63	4.88	10.00	7.50	3.38	0.600	7.14	123	136	151	170	186	208
68	5.00	10.75	8.00	3.75	0.849	7.33	130	142	159	183	201	225
73	5.25	12.50	10.00	5.13	1.000	7.80	130	142	159	183	201	225
78	6.50	14.90	10.00	6.38	0.940	9.50	148	162	181	209	228	257

SIZE	HP PER 100 RPM 1.0 S.F.	RATED TORQUE LB*IN (in. lbs.)	PEAK O/L TORQUE (in. lbs.)	WEIGHT (lbs.)		WR ² -(lb. in. ²)		TORS. STIFFNESS x10 ⁶ (in. lbs./rad)		FREE END FLOAT +/- inch
				AT D = 20"	ADD PER in. OF D	AT D = 20"	ADD PER in. OF D	K factor	Y factor	
				33	4.84	3,050	6,100	14.4	0.20		32.7	0.29	0.48	12.0	0.060
38	10.08	6,350	12,700	29.1	0.39	113	1.28	1.77	51.9	0.084
43	19.84	12,500	25,000	41.0	0.44	210	1.88	2.89	76.4	0.090
48	26.98	17,000	34,000	60.0	0.52	402	3.10	4.57	126	0.108
53	38.10	24,000	48,000	67.4	0.52	494	3.10	5.52	126	0.108
58	53.97	34,000	68,000	85.5	0.63	874	5.43	8.44	220	0.118
63	76.19	48,000	96,000	108	0.63	1340	5.43	9.52	220	0.140
68	114.29	72,000	144,000	140	1.15	1940	13.37	19.9	543	0.144
73	198.41	125,000	250,000	210	1.15	3860	13.37	25.0	543	0.156
78	369.84	233,000	466,000	355	1.95	9640	37.32	59.3	1510	0.165

NOTES:
 1) WEIGHT, WR² AND TORSIONAL STIFFNESS VALUES SHOWN ARE FOR BH HUBS AT MAXIMUM BORE SIZE.
 2) TO CALCULATE TORSIONAL STIFFNESS FOR A GIVEN SPACER LENGTH, LET L= D - 20"
 TORSIONAL STIFFNESS = 1/[(1/K) + (L/Y)]

FLOATING SHAFT - HFTH SERIES

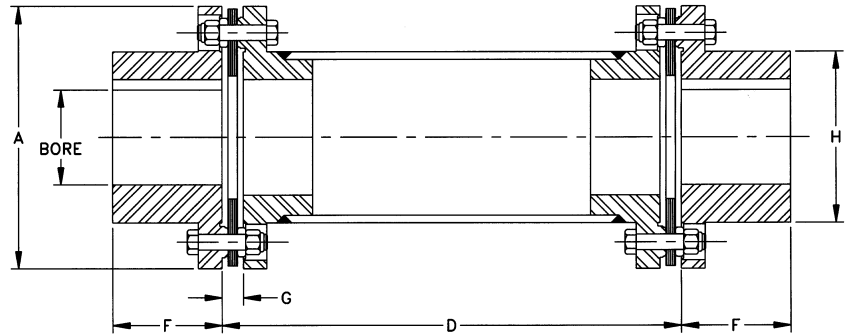
8 BOLT FLOATING SHAFT COUPLINGS



The HFTH series is designed for heavy duty applications that cannot use the A5 or B5 series. These include high torque and engine driven applications. The HFTH uses a welded tubular spacer assembly. Flex discs are high strength alloy steel. Stainless steel flex discs are optional. Dynamic balancing of the spacer assembly is included. The HFTH is made-to-order to any custom spacer length. Large tube designs are also available.

Consult factory for vertical modifications, and semi-floating designs or flywheel mounting.

ORDERING: HFTH Series couplings are sold as complete assemblies. Please specify hub speed for dynamic balancing. A coupling will be configured to meet your specification.



RATED MISALIGNMENT: 0.3 DEG/DISC

HUB TYPES	SIZES
C.I.	35-160
STL.	35-160
SEE PAGE F5-9	

SIZE	DIMENSIONS IN INCHES*							MAX DBSE (D INCHES)					
	MAX BORE		A	Dmin	F	G	H	FOR RPM SHOWN					
	IRON	STEEL						1800	1500	1200	900	750	600
35	3.62	3.81	9.12	10.0	3.75	0.66	6.12	114	124	139	161	176	197
42	4.25	4.50	11.00	10.0	4.25	0.81	7.00	128	140	157	182	198	222
45	4.50	4.75	11.87	10.0	4.50	0.87	7.43	130	143	160	185	201	226
50	5.12	5.50	13.43	10.0	5.00	1.06	8.37	139	153	171	197	215	242
55	5.62	6.25	15.00	10.0	5.50	1.25	9.50	145	159	178	206	224	252
60	6.50	7.12	16.75	15.0	6.25	1.34	10.50	153	168	188	217	237	266
70	7.00	7.87	18.93	15.0	7.00	1.50	11.75	161	176	197	228	250	279
75	7.75	8.75	20.62	15.0	7.25	1.55	13.00	172	189	211	244	267	299
80	8.00	9.12	22.37	15.0	7.75	1.56	13.75	182	199	222	257	282	315
85	8.50	9.62	25.75	20.0	8.25	1.62	14.50	CONSULT TB WOOD'S					
92	10.00	11.00	25.75	20.0	9.00	1.75	15.87						
105	10.50	12.00	29.25	20.0	10.50	1.75	20.00						
160	16.00	17.00	33.50	20.0	12.00	2.25	24.00						

SIZE	HP PER 100 RPM 1.0 S.F	RATED TORQUE (lb. in.)	PEAK O/L TORQUE (lb. in.)	WEIGHT (lbs.) (1)		WR ² -(lb. in. ²) (1)		TORS. STIFFNESS (1) x10 ⁶ (lb. in./rad) (2)		FREE END FLOAT +/- inch	
				AT D = 20"	ADD PER in. OF D	AT D = 20"	ADD PER in. OF D	K factor	Y factor		
				35	69.84	44,000	66,000	111	0.81		1,040	5	9	190	0.056
42	115.9	73,000	109,500	186	1.14	2,520	13	21	537	0.067	
45	157.1	99,000	148,500	201	1.14	3,370	13	23	537	0.072	
50	203.2	128,000	192,000	311	1.31	6,430	20	38	810	0.082	
55	300.0	189,000	283,500	374	1.95	10,100	37	67	1,510	0.092	
60	414.3	261,000	391,500	556	3.21	18,600	75	110	3,020	0.102	
70	658.7	415,000	622,500	769	3.21	33,000	75	134	3,020	0.115	
75	846.0	533,000	799,500	948	4.13	49,000	158	252	6,430	0.125	
80	1087	685,000	1,027,500	1260	4.13	78,900	158	265	6,430	0.136	
85	1316	829,000	1,243,500	CONSULT TB WOOD'S							0.140
92	1651	1,040,000	1,560,000								0.166
105	1984	1,250,000	1,875,000								0.170
160	3175	2,000,000	3,000,000								0.250

NOTES:

- 1) WEIGHT, WR² AND TORSIONAL STIFFNESS VALUES SHOWN ARE FOR BH HUBS AT MAXIMUM BORE SIZE.
- 2) TO CALCULATE TORSIONAL STIFFNESS FOR A GIVEN SPACER LENGTH, LET L= D - 20"
TORSIONAL STIFFNESS = 1/[(1/K) + (L/Y)]



TRUE TUBE™ COMPOSITE TORQUE TUBES



True-Tube composite tubes are high-strength, lightweight torque tubes for long span drive shafts. These tubes are filament wound carbon or glass fiber construction in an oven cured epoxy matrix. True-Tube composites offer the following advantages over steel tubing.

LONGER SPANS

TrueTube composite tubes have a higher stiffness to weight ratio than steel tubing. That increases the critical speed of the tubing and allows longer spans without center bearings.

LIGHT WEIGHT

TrueTube drive shafts weigh up to 80% less than equivalent steel driveshafts. That means better balance and reduced vibration. Bearing life may be improved by minimizing overhung weight.

DESIGN FLEXIBILITY

TrueTube composite tubes may be custom designed to meet your requirements for torsional stiffness, critical speed or torque capacity. With TrueTube, a designer can tune torsional or lateral critical speeds out of a machine system.

All TrueTube products include an ultraviolet barrier that is wound into the structure of the tube before it is cured. This UV barrier eliminates the need for paints or other protective coatings and results in a smooth, durable finish that other composite tubes don't offer. TrueTube products are cured in an enclosed oven to assure consistent strength and quality. Design data is shown below for standard series tubes. Standard series tubes are designed for maximum length at moderate torques. High torque designs are also available.

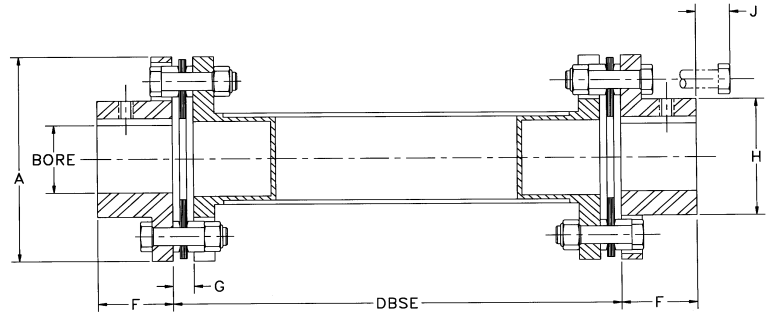
MODEL NUMBER	TUBE I.D. INCHES	TUBE O.D. INCHES	SLEEVE O.D. INCHES	RATED TORQUE LB*IN	TUBE WEIGHT (lb./in.)	TORSIONAL STIFFNESS x10 ⁶ LB*IN/RAD	MAX DBSE – INCHES				MAX TUBE LENGTH INCHES
							2000 RPM	1800 RPM	1500 RPM	1000 RPM	
SERIES SL – ALL CARBON CONSTRUCTION											
SL2.0	2.00	2.30	2.40	6,500	0.05	1.26	90	95	104	127	82
SL3.0	3.00	3.25	3.50	12,000	0.08	3.61	110	116	127	155	128
SL4.0	4.00	4.23	4.50	22,000	0.11	8.60	127	134	147	180	145
SL6.0	6.00	6.25	6.63	42,000	0.20	34.4	152	160	175	214	177
SL8.0	8.00	8.25	8.63	63,000	0.24	80.2	180	190	208	255	192
SL10.0	10.00	10.25	10.75	80,000	0.32	155	199	210	230	281	232
SL12.0	12.00	12.25	12.75	100,000	0.38	258	215	227	249	304	232
SERIES SS – CARBON/GLASS CONSTRUCTION											
SS2.0	2.00	2.30	2.40	5,500	0.06	0.97	79	83	91	111	82
SS3.0	3.00	3.25	3.50	10,500	0.08	2.86	97	102	112	137	128
SS4.0	4.00	4.23	4.50	22,000	0.12	7.28	112	118	129	158	145
SS6.0	6.00	6.25	6.63	42,000	0.20	26.4	135	142	155	190	177
SS8.0	8.00	8.25	8.63	58,000	0.28	57.3	151	160	176	216	192
SS10.0	10.00	10.25	10.75	73,000	0.34	115	173	183	200	245	232
SS12.0	12.00	12.25	12.75	88,000	0.42	206	189	199	218	267	232
SERIES LS – ALL GLASS CONSTRUCTION											
LS2.0	2.00	2.30	2.40	5,000	0.07	0.75	66	70	77	94	82
LS3.0	3.00	3.25	3.50	10,000	0.09	2.06	80	84	92	113	128
LS4.0	4.00	4.23	4.50	18,000	0.14	5.04	93	98	107	131	145
LS6.0	6.00	6.25	6.63	39,000	0.23	18.9	110	116	127	155	177
LS8.0	8.00	8.25	8.63	51,000	0.30	43.0	128	135	148	181	192
LS10.0	10.00	10.25	10.75	64,000	0.37	86.0	142	150	164	201	232
LS12.0	12.00	12.25	12.75	77,000	0.46	149	155	163	178	218	232

- NOTES: 1) TORQUE RATINGS ARE AT 100% HUMIDITY AND 200 DEG. F.
 2) MAX RPM VALUES SHOWN ARE CALCULATED AT 75% OF FIRST CRITICAL SPEED.
 3) TORSIONAL STIFFNESS SHOWN IS PER INCH OF TUBE LENGTH.
 ACTUAL STIFFNESS = TORSIONAL STIFFNESS/TUBE LENGTH (IN.)

FORM-FLEX® COMPOSITE FLOATING SHAFT COUPLINGS



Form-Flex flexible couplings may be mated to TrueTube composite tubes for use as long floating shaft couplings. All types and most sizes of Form-Flex couplings can be mated to TrueTube composites. Common combinations are shown below.



COUPLING TYPE	RATED TORQUE LB IN	HP PER 100 RPM	COUPLING PRODUCT NO.	MAXIMUM DBSE-INCHES			DIMENSIONS IN INCHES						
				MAX	1800 RPM	1500 RPM	MAXIMUM BORE		A	F	G	H	J
							STD HUB	AZ HUB					
A520	2,200	3.49	A520-CS2G	83	70	77	1.625	2.125	4.08	1.32	0.34	2.40	2.30
			A520-CS2R	83	83	83*							2.30
A525	3,800	6.03	A525-CS2G	83	70	77	2.000	2.375	4.95	1.62	0.45	2.80	2.30
			A525-CS2R	83	83	83*							2.30
A530	6,930	11.00	A530-CS3R	128	102	112	2.375	2.875	5.63	1.88	0.47	3.30	3.25
			A530-CS3B	128	116	127							3.25
A535	11,340	18.00	A535-CS4R	146	118	129	2.875	3.750	6.63	2.25	0.55	4.15	4.25
			A535-CS4B	146	134	146*							4.25
			A535-CS6R	179	142	155							6.30
			A535-CS6B	179	160	175							6.30
			A535-CS8R	196	175	191							8.31
			A535-CS8B	196	190	207*							8.31
A540	18,270	29.00	A540-CS4R	146	118	129	3.250	4.000	7.63	2.50	0.60	4.65	4.25
			A540-CS4B	146	134	146*							4.25
B558	34,000	54.00	B558-CS6R	179	142	155	3.75	-	9.00	2.75	0.56	5.43	6.30
			B558-CS6B	179	160	175							6.30
			B558-CS6X	182	165	181							6.30
			B558-CS8R	196	175	191							8.31
			B558-CS8B	196	190	207							8.31
			B558-CS10R**	236	206	224							10.31
B558-CS10B**	236	210	230	10.31									

QUICK SELECTION GUIDE FOR COOLING TOWER APPLICATIONS

1800 RPM		COUPLING MODEL	1500 RPM	
DBSE	MAX HP		MAX HP	DBSE
70"	30	A520-CS2G	25	77"
	50	HD4-CS2G***	42	
	50	A525-CS2G	42	
83"	30	A525-CS2R	25	83**
	50	HD4-CS2R***	42	
	50	A525-CS2R	42	
102"	100	A530-CS3R	83	112"
116"	100	A530-CS3B	83	127"
118"	150	A535-CS4R	125	129"
	250	A540-CS4R	208	
134"	150	A535-CS4B	125	146**
	250	A540-CS4B	208	
142"	150	A535-CS6R	125	155"
	400	B558-CS6R	333	
160"	150	A535-CS6B	125	175"
	400	B558-CS6B	333	
165"	400	B558-CS6X	333	181"
	150	A535-CS8R	125	191"
175"	400	B558-CS8R	333	
	150	A535-CS8B	125	207"
190"	400	B558-CS8B	333	
	206"	B558-CS10R	333	224"
210"	400	B558-CS10B	333	230"
227"	400	B558-CS12B	333	236**

ALL SELECTIONS USE A 2.0 SERVICE FACTOR

COMPOSITE TUBE CONSTRUCTION

MODEL CODE	TUBE MATERIAL OF CONSTRUCTION
G	GLASS
R	CARBON/GLASS HYBRID
B	STANDARD CARBON
X,Z	HIGH MODULUS CARBON

THE MODEL CODE IS THE LAST LETTER IN THE COUPLING MODEL NUMBER. THE NUMBER xx IN THE TUBE MODEL NUMBER CSxxB DENOTES THE NOMINAL TUBE ID.

MATERIAL CLASS	MATERIAL USED		
	HUB	HARDWARE	SPACER FLANGES
A	STEEL	STEEL	COMPOSITE OR STEEL
B	STEEL	STEEL, ZINC PLT	COMPOSITE OR
		304SS	ZINC PLATED STEEL
C	ZINC PLT	304SS	
E	304SS	304SS	COMPOSITE OR 304SS

METAL SPACER FLANGES USED IF COMPOSITE IS NOT AVAILABLE.

NOTES

* LENGTH IS RESTRICTED BY AVAILABLE MANDRELS FOR WINDING COMPOSITE TUBES. CONSULT FACTORY FOR LONGER LENGTHS.

** TUBE DIAMETER IS LARGER THAN COUPLING "A" DIAMETER. CONSULT FACTORY FOR COUPLING DRAWING.

*** HD4-CS COUPLINGS ARE AN ALL COMPOSITE, HIGH MISALIGNMENT COUPLING. CONSULT PAGE F4-3 IN THE HD ELASTOMERIC SECTION OF THIS CATALOG FOR DETAILS.



M SERIES – 4 BOLT MICRO COUPLINGS

Form-Flex M series microcouplings are a more compact and lighter design than traditional A Series couplings. They are free from backlash and their high torsional stiffness makes them ideally suited for small servo and tachometer drives. Aluminum hub construction meets low inertia requirements while the bolted assembly provides superior life when compared to riveted types.

STYLE MA	STYLE MB	STYLE MC
<p>This coupling style is available in size 04 only. It features a machined spool type spacer. Custom length spacers are also available.</p>	<p>This coupling style features a minimum length block spacer. Standard flanged hubs are supplied with the coupling. Style MB is a good, general use coupling.</p>	<p>This style features the MB style minimum length spacer and an oversize bore capacity. The style MC provides the shortest overall coupling length.</p>

DIMENSIONS IN INCHES									RATED TORQUE (in. lbs.)	PEAK O/L TORQUE (in. lbs.)	WR ² OZ. (in. ²)	TORSIONAL STIFFNESS (in. lbs./rad)	RATED MISALIGNMENT deg/disc	FREE END FLOAT (in.)
STYLE	SIZE	MAX BORE	A	B	D DBSE	F	H	STD SET SCREW SIZE						
MA	04	0.79	2.24	2.93	1.36	0.79	1.22	M6X1.0	87	174	6.11	64.7X10 ³	1.5	0.60
MB	02	0.38	1.26	1.39	0.45	0.47	0.71	M4X0.7	17	34	0.29	2.9X10 ³	1.5	0.40
	03	0.63	1.65	1.80	0.54	0.63	1.02	M4X0.7	35	70	1.33	14.9X10 ³	1.5	0.50
	04	0.79	2.24	2.38	0.81	0.79	1.22	M6X1.0	87	174	4.99	64.7X10 ³	1.5	0.60
MC	01	0.38	1.02	1.08	0.45	0.32	–	M3X0.5	9	18	0.17	2.4X10 ³	1.5	0.25
	02	0.59	1.26	1.53	0.45	0.32	–	M4X0.7	17	34	0.35	2.9X10 ³	1.5	0.40
	03	0.79	1.65	1.53	0.54	0.50	–	M4X0.7	35	70	1.34	14.9X10 ³	1.5	0.50

NOTE: STYLE MBO4 COUPLING HUBS WILL HAVE ROUND FLANGES AS SHOWN FOR TYPE MA.

INDIVIDUAL PARTS & KITS



Repair kits consist of flex discs and all the necessary installation hardware. SINGLE REPAIR KITS have one set of flex discs and all required hardware. Two single repair kits are required for a double flexing coupling. DOUBLE REPAIR KITS have two sets of flex discs and all required hardware. HARDWARE KITS have all the components of a repair kit except the flex discs. FLEX DISCS are also sold individually.

A SERIES (4 BOLT) COUPLING PARTS

KIT TYPE	REPAIR		HARDWARE		REPAIR	HDWR	REPAIR	HDWR	FLEX
SGL/DBL	SINGLE				DOUBLE		DOUBLE		DISC
USED ON	AA, AK, AP, AR, A5, A7				AX		AY		ALL
MAT'L CLASS	A,B	C,E	A,B	C,E	A,B	A,B	A,B	A,B	ALL
05	A05RKA	...	A05HKA	...	AX05RKA	AX05HKA	AY05RKA	AY05HKA	A054101
10	A10RKA	...	A10HKA	...	AX10RKA	AX10HKA	AY10RKA	AY10HKA	A0104101
15	A15RKA	A15RKE	A10HKA	A15HKE	AX15RKA	AX15HKA	AY15RKA	AY15HKA	A0154101
20	A20RKA	A20RKE	A20HKA	A20HKE	AX20RKA	AX20HKA	AY20RKA	AY20HKA	A0204101
25	A25RKA	A25RKE	A25HKA	A25HKE	AX25RKA	AX25HKA	AY25RKA	AY25HKA	A0254101
30	A30RKA	A30RKE	A30HKA	A30HKE	AX30RKA	AX30HKA	...	...	A0304101
35	A35RKA	A35RKE	A35HKA	A35HKE	AX35RKA	AX35HKA	...	...	A0354101
40	A40RKA	A40RKE	A10HKA	A15HKE	AX40RKA	AX40HKA	...	...	A0404101
45	A45RKA	A45RKE	A45HKA	A45HKE	AX45RKA	AX45HKA	...	...	A0454101

B SERIES (6 BOLT) COUPLING PARTS (EXCEPT BA)

KIT TYPE	REPAIR		HARDWARE		REPAIR	HDWR	REPAIR	HDWR	FLEX
SGL/DBL	SINGLE				SINGLE		DOUBLE		DISC
USED ON	BH, BP, B5				BF		BY		ALL
MAT'L CLASS	A,B	C	A,B	C	A,B	A,B	A,B	A,B	ALL
15	...	...	...	...	BF15RKA	BF15HKA	...	...	A0154101
20	...	...	...	...	BF20RKA	BF20HKA	...	...	A0204101
33	B033RKA	...	B033HKA	...	BF33RKA	BF33HKA	BY33RKA	BY33HKA	B0334101
38	B038RKA	B038RKE	B038HKA	B038HKE	BF38RKA	BF38HKA	BY38RKA	BY38HKA	B0384101
43	B043RKA	B043RKE	B043HKA	B043HKE	BF43RKA	BF43HKA	BY43RKA	BY43HKA	B0434101
48	B048RKA	B048RKE	B048HKA	B048HKE	BF48RKA	BF48HKA	BY48RKA	BY48HKA	B0484101
53	B053RKA	B053RKE	B053HKA	B053HKE	BF53RKA	BF53HKA	BY53RKA	BY53HKA	B0534101
58	B058RKA	B058RKE	B058HKA	B058HKE	BF58RKA	BF58HKA	BY58RKA	BY58HKA	B0584101
63	B063RKA	B063RKE	B063HKA	B063HKE	BF63RKA	BF63HKA	BY63RKA	BY63HKA	B0634101
68	B068RKA	...	B068HKA	...	BF68RKA	BF68HKA	BY68RKA	BY68HKA	B0684101
73	B073RKA	...	B073HKA	...	BF73RKA	...	BY73RKA	...	B0734101
78	B078RKA	...	B078HKA	...	BF78RKA	...	BY78RKA	...	B0784101

8 BOLT COUPLING PARTS (EXCEPT DA AND DP)

CPLG SIZE	HH, HSH, FSH, HFTH							
	DOUBLE REPAIR KIT		SINGLE HDWR KIT	FLEX DISC		BOLT	WASHER	NUT
	STD DISC	SS DISC		STD	SS			
22	D22-DF	D22-DF-SS	D22-BNW	D22-5	D22-5-SS	D22-6H	D22-7	D22-6N
26	D26-DF	D26-DF-SS	D26-BNW	D26-5	D26-5-SS	D26-6H	D26-7	D26-6N
31	D31-DF	D31-DF-SS	D31-BNW	D31-5	D31-5-SS	D31-6H	D31-7	D31-6N
35	D35-DF	D35-DF-SS	D35-BNW	D35-5	D35-5-SS	D35-6H	D35-7	D35-6N
37	D37-DF	D37-DF-SS	D37-BNW	D37-5	D37-5-SS	D37-6H	D37-7	D37-6N
42	D42-DF4*	D42-DF4-SS*	D42-BNW4*	D42-5	D42-5-SS	D42-6H4*	D42-7	D42-6N
45	D45-DF4*	D45-DF4-SS*	D45-BNW4*	D45-5	D45-5-SS	D45-6H4*	D45-7	D45-6N
50	D50-DF4*	D50-DF4-SS*	D50-BNW4*	D50-5	D50-5-SS	D50-6H4*	D50-7	D50-6N
55	D55-DF4*	D55-DF4-SS*	D55-BNW4*	D55-5	D55-5-SS	D55-6H4*	D55-7	D55-6N
60	D60-DF4*	D60-DF4-SS*	D60-BNW4*	D60-5	D60-5-SS	D60-6H4*	D60-7	D60-6N
70	D70-DF	D70-DF-SS	D70-BNW	D70-5	D70-5-SS	D70-6H	D70-7	D70-6N
75	D75-DF4*	D75-DF4-SS*	D75-BNW4*	D75-5	D75-5-SS	D75-6H4*	D75-74*	D75-6N4*
80	D80-DF4*	D80-DF4-SS*	D80-BNW4*	D80-5	D80-5-SS	D80-6H4*	D80-7	D80-6N
85	D85-DF	D85-DF-SS	D85-BNW	D85-5	D85-5-SS	D85-6H	D85-7	D85-6N
92	D92-DF	D92-DF-SS	D92-BNW	D92-5	D92-5-SS	D92-6H	D92-7	D92-6N

*ITEMS MARKED * HAVE NEW STYLE BOLTS. BOLT HEAD HEX MAY NOT FIT FSH TYPE FLYWHEEL ADAPTERS MANUFACTURED IN 1994 OR EARLIER. TO RECEIVE OLD STYLE BOLTS, DELETE THE "4" FROM THESE PART NUMBERS.

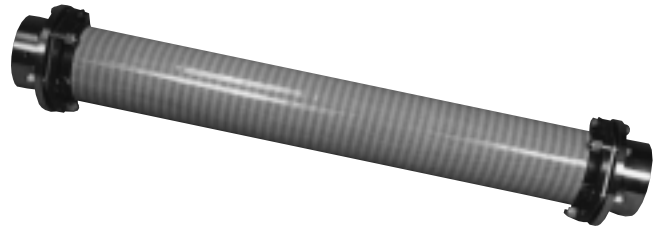


COOLING TOWER COUPLINGS



The traditional A5 design features all metal construction. It can be ordered to meet any custom spacer length. A wide variety of materials and finishes is available.

Designed specifically as a connection for cooling tower applications and other drives requiring long shaft spans. Form-Flex couplings with TrueTube composite tubing weigh less than half of its steel counterpart and can span shaft separations of up to 240 inches. They are easy to handle, install and maintain. TrueTube composites are extremely corrosion resistant and are custom designed to provide the optimum combination of torsional strength and lateral stiffness for cooling tower drive applications. TB Wood's proprietary composite flange design transmits torque reliably from the metal outboard hubs to the composite flange and into the TrueTube composite tube.



HD elastomeric couplings and TrueTube composites are combined into a high misalignment, all composite coupling. These couplings are easy to install and align. Their high misalignment capacity makes them ideal for smaller, wood framed and fiberglass towers.



GEAR COUPLINGS

- High Torque Capacity
- Torsionally Stiff
- Good Inherent Balance
- Rated for Higher Speeds
- Many Types and Configurations



Selection		MXB Series	
Selection Process.....	F6-2	Double Engagement (Full Flex)	F6-15
Service Factor Chart.....	F6-3	Single Engagement (Flex Rigid)	F6-16
Standard Bore Tolerances	F6-4	Floating Shaft	F6-16
Flange Details.....	F6-5	Reversed Hubs.....	F6-17
C Series		Spacer Type.....	F6-21
Full Flex.....	F6-6	K 100 Series	
Flex Rigid	F6-6	Double Engagement (Full Flex)	F6-18
Mill Motor	F6-7	Single Engagement (Flex Rigid)	F6-19
Floating Shaft	F6-8	Floating Shaft	F6-19
F Series		Mill Motor	F6-20
Reversed Hubs.....	F6-4	Spacer Type.....	F6-21
Full Flex.....	F6-9	Heavy Duty (Large Bore) Series	
Flex Rigid	F6-10	Poole 1000 Series.....	F6-22
Floating Shaft	F6-10	TB Wood's/Poole HD Series	F6-23
Short Slide	F6-11	Deck-Flex and Deck-Flex Mite	F6-24
Mill Motor	F6-12		
Limited End Float	F6-13		
Vertical Type.....	F6-14		
Spacer Type.....	F6-21		

Ordering

Standard gear coupling product is sold by component
See examples on individual pages

GEAR COUPLING SELECTION

Calculate Design Horsepower or Design Torque

- **If HP and RPM are Known, Calculate Design HP@100 RPM**

Design HP@100 RPM=(Prime mover HP x Service Factor x 100) divided by the Coupling RPM

Refer to the HP@100 RPM rating for the coupling style desired. Select the coupling equal to or greater than the calculated design HP@100 RPM. Check the maximum bore capabilities to be sure the size coupling you have chosen is capable of your largest bore.

- **If Using Prime Mover Torque, Calculate Design Torque**

Design Torque = Prime Mover Torque x Service Factor

Refer to torque rating in the coupling style desired. Select the coupling equal to or greater than the calculated design torque. Check the maximum bore capabilities to be sure the size coupling you have chosen is capable of your largest bore.

The above selection can be used for all series of industrial gear couplings, however, the Deck-Flex and Deck-Flex Mite couplings have their own calculations.

GEAR COUPLING SELECTION



Service Factor Table

AGITATORS		Freight	2.00	Parafin Filter Press	1.75
Pure Liquids	1.00	A26 Gravity Discharge	1.50	Rotary Kiln	2.00
Liquids and Solids	1.25	FANS		PAPER MILLS	
Liquids - Variable Density	1.25	Centrifugal	1.00	Barker Auxiliaries, Hydraulic	2.00
BLOWERS		Cooling Towers Forced Draft	2.00	Barker, Mechanical	2.00
Centrifugal	1.00	Induced Draft w/o Damper Control	2.00	Barking Drum - Spur Gear Only	2.25
Lobe	1.50	FEEDERS		Beater & Pulper	1.75
Vane	1.25	Apron	1.25	Bleacher	1.00
BREWING AND DISTILLING		Belt	1.25	Calenders	2.00
Bottling Machinery	1.00	Disc	1.25	Convert Mach. exc Cutter, Platers	1.50
Lauter Tub	1.25	Reciprocating	2.50	Couch	1.75
BRIQUETTER MACHINES	2.00	Screw	1.25	Cutters, Platers	2.00
CAN FILLING MACHINES	1.00	FOOD INDUSTRY		Cylinders	1.75
CAN KNIVES	2.00	Beet Slicer	1.75	Dryers	1.75
CAR DUMPERS	2.50	Cereal Cooker	1.25	Felt Stretcher	1.25
CAR PULLERS - Int. Duty	1.50	Dough Mixer	1.75	Felt Whipper	2.00
CLAY WORKING MACHINERY	1.75	Meat Grinder	1.75	Jordans	1.75
COMPRESSORS		Bottling, Can Filling Machine	1.00	Log Haul	2.00
Centrifugal	1.25	GENERATORS - Not Welding	1.00	Presses	2.00
Lobe	1.50	HAMMER MILLS	2.00	Reel	1.50
Reciprocating - Mult. Cyn.	2.00	LAUNDRY WASHERS - Reversing	2.00	Stock Chests	1.50
CONVEYORS - UNIFORM LOAD		LAUNDRY TUMBLERS	2.00	Suction Roll	1.75
Apron	1.25	LUMBER INDUSTRY		Washer & Thickeners	1.50
Assembly	1.00	Barkers - Drum Type	2.00	Winders	1.50
Belt	1.00	Edger Feeder	2.00	PRINTING PRESSES	1.50
Bucket	1.25	Live Rolls	2.00	PULLERS - Barge Haul	2.00
Chain	1.25	Log Haul - Incline	2.00	PUMPS	
Flight	1.25	Log Haul - Well Type	2.00	Centrifugal	1.00
Oven	1.50	Off Bearing Rolls	2.00	Reciprocating - Dbl. Action	2.00
Screw	1.25	Planer Feed Chains	1.75	Reciprocating - Sgl. " 1,2 Cyl.	2.25
CONVEYORS - NON-UNIFORM LOAD		Planer Floor Chains	1.75	Reciprocating - Sgl. " 3+ Cyl.	1.75
Apron	1.50	Planer Tilting Hoist	1.75	Rotary - Gear, Lobe, Vane	1.50
Assembly	1.25	Slab Conveyor	1.50	RUBBER INDUSTRY	
Belt	1.25	Sorting Table	1.50	Mixer - Banbury	2.50
Bucket	1.50	Trimmer Feed	1.75	Rubber Calender	2.00
Chain	1.50	MACHINE TOOLS		Rubber mill - 2 or more	2.25
Flight	1.50	Bending Roll	2.00	Sheeter	2.00
Oven	1.50	Plate Planer	1.50	Tire Building Machines	2.50
Reciprocating	2.50	Punch Press - Gear Driven	2.00	Tire & Tube Press Openers	1.00
Screw	1.50	Tapping Machine	2.50	Tubers and Strainers	2.00
Shaker	2.50	Other Machine Tools - Main Drive	1.50	SCREENS	
CRANES AND HOISTS		Other Machine Tools - Aux. Drive	1.25	Air Washing	1.00
Main Cranes	2.00	METAL MILLS		Rotary - Stone or Gravel	1.50
Reversing	2.00	Draw Bench - Carriage	2.00	Traveling Water Intake	1.25
Skip Hoists	1.75	Draw Bench - Main Drive	2.00	SEWAGE DISPOSAL EQUIPMENT	
Trolley Drive	1.75	Forming Machines	2.00	Bar Screens	1.25
Bridge Drive	1.75	Slitters	1.50	Chemical Feeders	1.25
Slope	1.50	Table Conveyors - Non-Reversing	2.25	Collectors Circuline	1.25
CRUSHERS		Table Conveyors - Reversing	2.50	Collectors Straightline	1.25
Ore	2.75	Wire Drawing & Flattening Mach.	2.00	Dewatering Screens	1.25
Stone	2.75	Wire Winding Machine	1.75	Grit Collectors	1.25
DREDGES		MILLS, ROTARY TYPES		Scum Breakers	1.25
Cable Reels	1.75	Ball	2.25	Slow or Rapid Mixers	1.25
Conveyors	1.50	Cement Kilns	2.00	Sludge Collectors	1.25
Cutter Head Drives	2.25	Dryers & Coolers	2.00	Thickeners	1.25
Jig Drives	2.25	Kilns	2.00	Vacuum Filters	1.25
Maneuvering Winches	1.75	Pebble	2.00	STEERING GEAR	1.00
Pumps	1.75	Rod	2.00	STOKERS	1.00
Screen Drives	1.75	Tumbling Barrels	2.00	TEXTILE INDUSTRY	
Stracers	1.75	MIXERS		Batchers	1.25
Utility Winches	1.50	Concrete Mixers	1.75	Calenders	1.75
ELEVATORS		Drum Type	1.50	Card Machines	1.50
Bucket	1.75	OIL INDUSTRY		Cloth Finishing	1.50
Centrifugal Discharge	1.50	Chillers	1.25	Dry Cans	1.75
Escalators	1.25	Oil Well Pumping	2.00	Dryers	1.50

Above service factors recommended when using electric motors, hydraulic motors, etc.
Add 1.0 to Service Factor shown for internal combustion engines, etc.



STANDARD BORE TOLERANCES

With the exception of Deck-Flex and Deck-Flex Mite, interference fit will be provided unless specified at time of order.

Extracted from ANSI/AGMA 9002-A86, Bores and Keyways for Flexible Couplings, with permission of the publisher, The American Gear Manufacturers Association, 1500 King Street, Suite 210, Alexandria, Virginia, 23314.

Table 1 – Shaft to Hub Fits and Nominal Keyway Sizes (Inches)

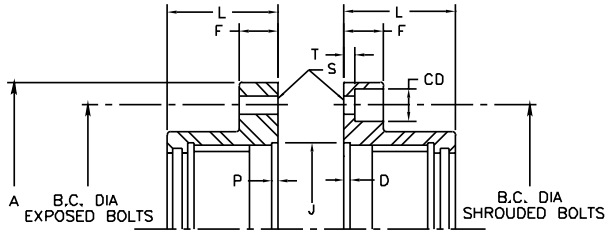
Nominal Bore Range ⁽¹⁾		Shaft Tol. ⁽²⁾ (Minus)	Clearance Fits				Interference Fits				Nominal Keyway Dimensions ⁽³⁾			
			Class I		Class II									
Over	To (Incl.)		Bore Tol. (Plus)	Fit Tol. (Plus)	Bore Tol. (Plus)	Fit Tol. (Plus)	Bore Tolerance Range (Minus)	Fit Tolerance Range (Minus)			Width	Depth	Width	Depth
0.4375	0.5625	0.0005	0.0010	0.0015	0.0020	0.0025	0.0005	0.0010	0.0000	0.0010	0.1250	0.0625	0.1250	0.0468
0.5625	0.8750	0.0005	0.0010	0.0015	0.0020	0.0025	0.0005	0.0010	0.0000	0.0010	0.1875	0.0937	0.1875	0.0625
0.8750	1.2500	0.0005	0.0010	0.0015	0.0020	0.0025	0.0005	0.0010	0.0000	0.0010	0.2500	0.1250	0.2500	0.0937
1.2500	1.3750	0.0005	0.0010	0.0015	0.0020	0.0025	0.0005	0.0010	0.0000	0.0010	0.3125	0.1562	0.3125	0.1250
1.3750	1.5000	0.0005	0.0010	0.0015	0.0020	0.0025	0.0005	0.0010	0.0000	0.0010	0.3750	0.1875	0.3750	0.1250
1.5000	1.7500	0.0010	0.0010	0.0020	0.0020	0.0030	0.0010	0.0020	0.0000	0.0020	0.3750	0.1875	0.3750	0.1250
1.7500	2.0000	0.0010	0.0010	0.0020	0.0020	0.0030	0.0010	0.0020	0.0000	0.0020	0.5000	0.2500	0.5000	0.1875
2.0000	2.2500	0.0010	0.0015	0.0025	0.0020	0.0030	0.0010	0.0020	0.0000	0.0020	0.5000	0.2500	0.5000	0.1875
2.2500	2.7500	0.0010	0.0015	0.0025	0.0020	0.0030	0.0010	0.0020	0.0000	0.0020	0.6250	0.3125	0.6250	0.2187
2.7500	3.0000	0.0010	0.0015	0.0025	0.0020	0.0030	0.0010	0.0020	0.0000	0.0020	0.7500	0.3750	0.7500	0.2500
3.0000	3.2500	0.0010	0.0015	0.0025	0.0030	0.0040	0.0015	0.0030	0.0005	0.0030	0.7500	0.3750	0.7500	0.2500
3.2500	3.7500	0.0010	0.0015	0.0025	0.0030	0.0040	0.0015	0.0030	0.0005	0.0030	0.8750	0.4375	0.8750	0.3125
3.7500	4.0000	0.0010	0.0015	0.0025	0.0030	0.0040	0.0015	0.0030	0.0005	0.0030	1.0000	0.5000	1.0000	0.3750
4.0000	4.5000	0.0010	0.0015	0.0025	0.0040	0.0050	0.0020	0.0035	0.0010	0.0035	1.0000	0.5000	1.0000	0.3750
4.5000	5.0000	0.0010	0.0015	0.0025	0.0040	0.0050	0.0020	0.0035	0.0010	0.0035	1.2500	0.6250	1.2500	0.4375
5.0000	5.5000	0.0010	0.0015	0.0025	0.0040	0.0050	0.0025	0.0040	0.0015	0.0040	1.2500	0.6250	1.2500	0.4375
5.5000	6.5000	0.0010	0.0015	0.0025	0.0040	0.0050	0.0025	0.0040	0.0015	0.0040	1.5000	0.7500	1.5000	0.5000
6.5000	7.0000	0.0010	...	...	...	...	0.0025	0.0040	0.0015	0.0040	1.7500	0.8750	1.7500	0.7500
7.0000	7.5000	0.0010	...	...	...	...	0.0030	0.0050	0.0020	0.0050	1.7500	0.8750	1.7500	0.7500
7.5000	8.0000	0.0010	...	...	...	...	0.0030	0.0050	0.0020	0.0050	2.0000	1.0000	2.0000	0.7500
8.0000	9.0000	0.0010	...	...	...	...	0.0035	0.0055	0.0025	0.0055	2.0000	1.0000	2.0000	0.7500

- (1) Preferred Nominal Shaft Sizes: 0.500, 0.625, 0.750, 0.875, 0.9375, 1.000, 1.125, 1.1875, 1.250, 1.375, 1.4375, 1.500, 1.625, 1.750, 1.875, 1.9375, 2.000, 2.125, 2.250, 2.375, 2.4375, 2.500, 2.625, 2.750, 2.875, 2.9375, 3.000, 3.250, 3.375, 3.500, 3.625, 3.750, 4.000, 4.250, 4.500, 4.750, 5.000, 5.250, 5.500, 5.750, 6.000, 6.250, 6.500, 6.750, 7.000
- (2) Agrees with NEMA standard MG 1-4.05, June 1981, thru 6.5000
- (3) Non-shaded areas are preferred.

Examples of Tolerancing Bores and Shafts:

2" Nominal bore – Class I Clearance Fit			2" Nominal bore – Class 2 Clearance Fit			2" Nominal bore – Interference Fit		
Bore Size	–	2.000 to 2.001	Bore Size	–	2.000 to 2.002	Bore Size	–	2.000 to 1.999
Shaft Size	–	2.000 to 1.999	Shaft Size	–	2.000 to 1.999	Shaft Size	–	1.998 to 1.999
Resulting Fit		Loose 0.000 to 0.002	Resulting Fit		Loose 0.000 to 0.003	Resulting Fit		Tight 0.002 to 0.000

"F" SERIES FLANGE DETAILS



EXPOSED BOLTS				SHROUDED BOLTS			
SIZE	DIA.-THD.	LENGTH	GRIP (MAX)	SIZE	DIA.-THD.	LENGTH	GRIP (MAX)
F-1	1/4-28	1-1/2	1"	F-1	1/4-28	3/4	5/16
F-1-1/2	3/8-24	2	1-3/8	F-1-1/2; 2	3/8-24	1"	7/16
F-2	1/2-20	2-1/4	1-3/16	F-2-1/2; 3	1/2-20	1-3/16	17/32
F-2-1/2; 3	5/8-18	2-3/4	1-5/8	F-3-1/2; 4; 4-1/2	5/8-18	1-1/2	21/32
F-3-1/2; 4; 4-1/2	3/4-16	3-1/4	2-1/16	F-5	3/4-16	2	1"
F-5; 5-1/2	7/8-14	4-1/4	2-3/4				
F-6	7/8-14	3-1/4	1-3/4				
F-7	1"-14	3-1/2	2				

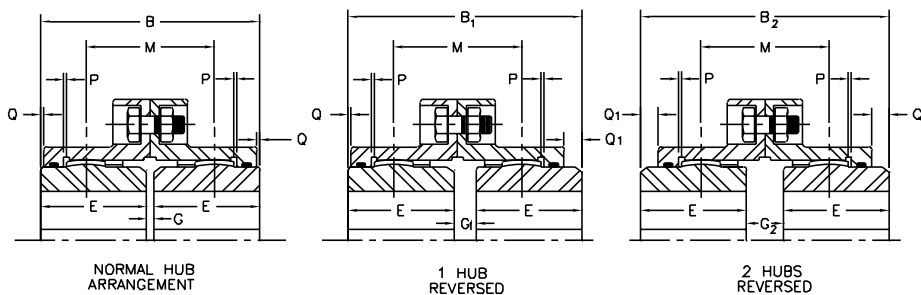
SIZE	A	P	F	J	L	EXPOSED BOLTS			SHROUDED BOLTS			CD	T
						No.	B.C. DIA	S	No.	B.C. DIA	S		
G1F	4-9/16	3/32	9/16	2.875	1-21/32	(6)	3.750	.250	(6)	3.750	.250	41/64	3/16
G15F	6	3/32	3/4	3.687	1-7/8	(8)	4.812	.375	(8)	4.812	.375	13/16	1/4
G2F	7	3/32	3/4	4.625	2-3/8	(6)	5.875	.500	(10)	5.812	.375	13/16	1/4
G25F	8-3/8	3/32	15/16	5.437	2-7/8	(6)	7.125	.625	(10)	7.000	.500	1-1/16	5/16
G3F	9-7/16	3/32	15/16	6.437	3-5/16	(8)	8.125	.625	(12)	8.000	.500	1-1/16	5/16
G35F	11	3/32	1-1/8	7.375	3-13/16	(8)	9.500	.750	(12)	9.281	.625	1-5/16	3/8
G4F	12-1/2	3/16	1-1/8	8.750	4-1/4	(8)	11.000	.750	(14)	10.625	.625	1-5/16	3/8
G45F	13-5/8	3/16	1-1/8	9.750	4-13/16	(10)	12.000	.750	(14)	11.750	.625	1-5/16	3/8
G5F	15-5/16	3/16	1-1/2	10.750	5-1/2	(8)	13.500	.875	(14)	13.188	.750	1-9/16	9/16
G55F	16-3/4	3/16	1-1/2	12.125	6	(14)	14.500	.875	(16)	14.437	.750	1-9/16	9/16
G6F	18	3/16	1	13.375	6-11/16	(14)	15.750	.875	EXPOSED BOLTS ONLY				
G7F	20-3/4	1/4	1-1/8	14.625	7-3/8	(16)	18.250	1.00					

Dimensions in inches

TB Wood's bolt circle meets AGMA 516.01 flexible gear type couplings flange dimensions.

Standard Coupling Minimum-Maximum Hub Gap

TB Wood's standard "F" Series Gear Coupling can satisfy shaft gap up to three inches by merely reversing the hubs. Reverse one or both hubs to provide the needed gap.

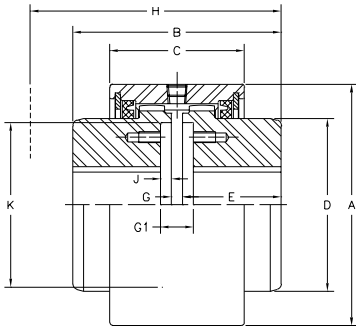


SIZE	B	B ₁	B ₂	E	G	G ₁	G ₂	M	P	Q	Q ₁
G1F	3-1/2	3-13/16	4-1/8	1-11/16	1/8	7/16	3/4	2-1/8	1/16	3/32	13/32
G15F	4	4-1/4	4-1/2	1-15/16	1/8	3/8	5/8	2-5/16	1/16	1/8	3/8
G2F	5	5-11/16	6-3/8	2-7/16	1/8	13/16	1-1/2	3-1/4	1/16	1/8	13/16
G25F	6-1/4	7-1/32	7-13/16	3-1/32	3/16	31/32	1-3/4	4	3/32	1/4	1-1/32
G3F	7-3/8	8-1/32	8-11/16	3-19/32	3/16	27/32	1-1/2	4-7/16	3/32	3/8	1-1/32
G35F	8-5/8	9-3/16	9-3/4	4-3/16	1/4	13/16	1-3/8	5	3/32	1/2	1-1/16
G4F	9-3/4	10-7/16	11-1/8	4-3/4	1/4	15/16	1-5/8	5-11/16	1/8	5/8	1-5/16
G45F	10-15/16	12	13-1/16	5-5/16	5/16	1-3/8	2-7/16	6-11/16	1/8	21/32	1-23/32
G5F	12-3/8	13-23/32	15-1/16	6-1/32	5/16	1-21/32	3	7-11/16	3/16	11/16	2-1/32
G55F	14-1/8	15-11/32	16-9/16	6-29/32	5/16	1-17/32	2-3/4	8-7/16	3/16	1-1/16	2-9/32
G6F	15-1/8	16-17/32	17-15/16	7-13/32	5/16	1-23/32	3-1/8	9-1/8	5/32	7/8	2-9/32
G7F	17-3/4	19-1/16	20-3/8	8-11/16	3/8	1-11/16	3	10-3/8	3/16	1-1/2	2-13/16

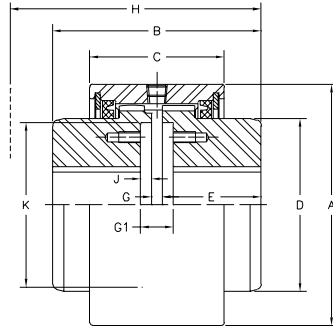


C SERIES CONTINUOUS SLEEVE GEAR COUPLING

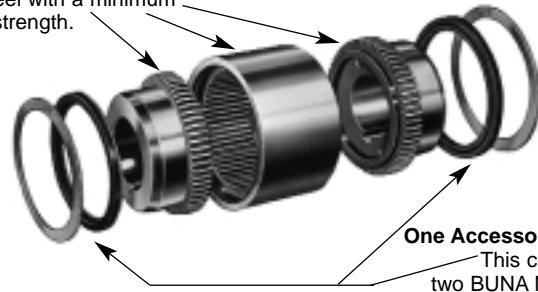
**Two Hubs-
One Sleeve-**
High quality carbon steel with a minimum
80,000 pound tensile strength.



**Standard Full Flex
Double Engagement (C)**



**Flex-Rigid
Single Engagement (CFR)**



One Accessory Kit -
This contains
two BUNA N seals
and two retaining rings.

Puller holes are optional
Setscrews are optional.

STANDARD DIMENSIONS

Size	A	B	C	D	E	F	G	G1	H (1)	J	K	Approx. Wt. (Lbs.) Solid Bore
7/8	3.31	3.12	2.00	2.00	1.50	1.00	0.12	0.38	3.75	0.12	1.94	5
1-1/2	3.75	3.75	2.53	2.38	1.81	1.27	0.12	0.50	4.59	0.19	2.25	8
2	4.75	4.25	2.56	3.25	2.06	1.28	0.12	0.50	4.88	0.19	3.00	13
2-1/2	5.50	4.75	3.06	3.94	2.25	1.53	0.25	0.75	5.72	0.25	3.75	20
3	6.62	5.50	3.75	4.75	2.62	1.88	0.25	0.75	6.88	0.25	4.75	33
3-1/2	7.50	8.75	4.00	5.38	4.25	2.00	0.25	0.75	9.25	0.25	5.50	63
4	8.75	9.00	4.62	6.25	4.38	2.31	0.25	0.75	9.50	0.25	6.50	91
4-1/2	9.50	10.25	4.88	7.25	5.00	2.44	0.25	0.75	10.38	0.25	7.25	126
5	10.75	12.25	5.75	8.25	6.00	2.88	0.25	0.75	12.25	0.25	8.12	195
6	12.25	13.00	6.50	9.50	6.38	3.25	0.25	0.75	13.38	0.25	9.25	267
7	14.00	14.88	7.50	10.50	7.25	3.75	0.38	0.88	15.38	0.25	9.75	320
9	16.25	19.00	8.12	12.62	9.25	4.06	0.50	1.00	19.00	0.25	12.50	520
11	19.25	22.50	8.12	15.62	11.00	4.06	0.50	1.00	22.50	0.25	15.50	925
12	20.50	25.00	8.38	16.50	12.25	4.19	0.50	1.00	25.00	0.25	16.00	1200

RATINGS

SIZE	HP @ 100 RPM	TORQUE in. lbs.	MIN BORE	MAX BORE STD KEY	MAX RPM UNBALANCED	(3) MAX RPM BALANCED	MISALIGNMENT	
							ANGULAR DEGREES PER MESH	PARALLEL IN INCHES (2)
7/8	4	2520	0.44	1.25	6000	18000	0.50	0.005
1-1/2	12	7560	0.44	1.62	5000	15000	0.50	0.007
2	32	20160	0.56	2.12	4200	12600	0.50	0.007
2-1/2	48	30240	0.81	2.62	3750	11250	0.50	0.010
3	80	50400	1.19	3.12	3000	9000	0.50	0.012
3-1/2	140	88200	1.56	3.62	2800	8400	0.50	0.012
4	200	126000	1.81	4.12	2400	7200	0.25	0.007
4-1/2	292	183960	1.81	4.75	2200	6600	0.25	0.007
5	430	270900	2.56	5.75	2100		0.25	0.009
6	600	378000	4.06	6.62	2000		0.25	0.010
7	950	598500	4.56	7.50	1000		0.25	0.011
9	2000	1260000	5.94	9.50	800	Consult Factory	0.25	0.013
11	3500	2205900	7.81	11.50	600		0.25	0.014
12	4000	2520000	9.81	12.50	550		0.25	0.014

- (1) "H" dimension required for installation
 (2) Flex Rigid configuration handles only angular misalignment.
 (3) Balance requires the manufacture of 2 special flexible hubs.

*When ordering please specify bore diameter with tolerances for both hubs, keyway sizes, set screws if applicable, speed, horsepower, and application details.

Speed, horsepower, and application details.

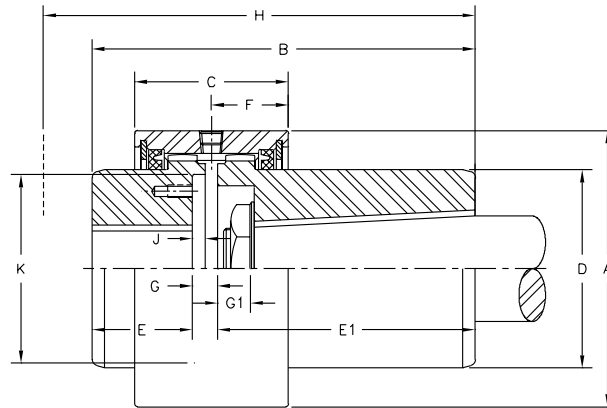
Below is an ordering example of a Full Flex 4 C Coupling

Item (Qty)	Part Number	Description
Flex Hub (2)	34CFB	4 C Rough Bore Flex Hub
Sleeve (1)	34CS	4 C Sleeve
Accessory Kit (1)	34CAK	Seals & Lockings for C4 Coupling

Below is an ordering example of a Flex Rigid 4 C Coupling

Item (Qty)	Part Number	Description
Flex Hub (1)	34CFB	4 C Rough Bore Flex Hub
Rigid Hub (1)	34CFRB	4 C Rough Bore Rigid Hub
Sleeve (1)	34CS	4 C Sleeve
Accessory Kit (1)	34CAK	Seals & Lockings for C4 Coupling

C SERIES CONTINUOUS SLEEVE GEAR COUPLING - Mill Motor Type



Puller holes are optional.
Setscrews are optional.

STANDARD DIMENSIONS

Size	A	B (1)	C	D	E	E1 (2)	F	G	G1 (3)	H (4)	J	K
7/8	3.31	5.49	2.00	2.00	1.50	3.75	1.00	0.12	1.63	3.75	0.12	1.94
1 1/2	3.75	6.12	2.53	2.38	1.81	4.00	1.27	0.12	1.875	4.59	0.19	2.25
2	4.75	7.00	2.56	3.25	2.06	4.63	1.28	0.12	2.75	4.88	0.19	3.00
2 1/2	5.50	7.88	3.06	3.94	2.25	5.13	1.53	0.25	3.25	5.72	0.25	3.75
3	6.62	8.87	3.75	4.75	2.62	5.75	1.88	0.25	3.875	6.68	0.25	4.75
3 1/2	7.50	11.25	4	5.38	4.25	6.50	2	0.25	4.5	9.25	0.25	5.50
4	8.75	11.51	4.62	6.25	4.38	6.63	2.31	0.25	5.125	9.50	0.25	6.50
4 1/2	9.50	13.25	4.88	7.25	5.00	7.75	2.44	0.25	5.5	10.38	0.25	7.25
5	10.75	14.38	5.75	8.25	6.00	7.88	2.88	0.25	6.5	12.25	0.25	8.12
6	12.25	Consult Factory	6.5	9.5	6.38	Consult Factory	3.25	0.25	7.75	13.38	0.25	9.25
7	14.00	Consult Factory	7.50	10.50	7.25	Consult Factory	3.75	0.38	8.63	15.38	0.25	9.75
9	16.25	Consult Factory	8.12	12.62	9.25	Consult Factory	4.06	0.50	Consult Factory	19.00	0.25	12.50
11	19.25	Consult Factory	8.12	15.62	11.00	Consult Factory	4.06	0.50	Consult Factory	22.50	0.25	15.50
12	20.50	Consult Factory	8.38	16.50	12.25	Consult Factory	4.19	0.50	Consult Factory	25.00	0.25	16.00

RATINGS

SIZE	HP @ 100 RPM	TORQUE in. lbs.	MIN BORE	MAX BORE STD KEY	MAX RPM UNBALANCED	Misalignment	
						Angular Degrees per mesh	Parallel in inches
7/8	4	2520	0.44	1.25	6000	0.500	0.005
1 1/2	12	7560	0.44	1.62	5000	0.500	0.007
2	32	20160	0.56	2.12	4200	0.500	0.007
2 1/2	48	30240	0.81	2.62	3750	0.500	0.010
3	80	50400	1.19	3.12	3000	0.500	0.012
3 1/2	140	88200	1.56	3.62	2800	0.500	0.012
4	200	126000	1.81	4.12	2400	0.250	0.007
4 1/2	292	183960	1.81	4.75	2200	0.250	0.007
5	430	270900	2.56	5.75	2100	0.250	0.009
6	600	378000	4.06	6.62	2000	0.250	0.010
7	950	598500	4.56	7.50	1000	0.250	0.011
9	2000	1260000	5.94	9.50	800	0.250	0.013
11	3500	2205900	7.81	11.50	600	0.250	0.014
12	4000	2520000	9.81	12.50	550	0.250	0.014

(1) Total length with rough bore mill motor hub

(2) Length of rough bore mill motor hub

(3) "G1" Maximum counterbore depth

(4) "H" dimension required for installation

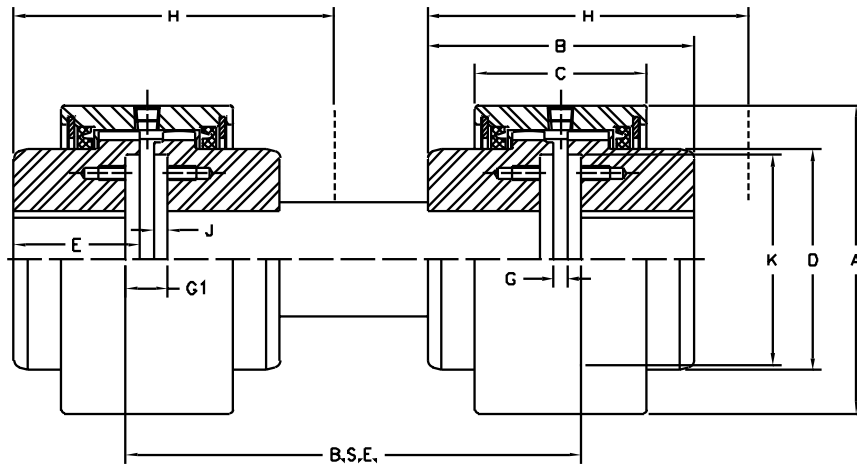
* When ordering please specify bore diameter with tolerances for both hubs, keyway sizes, set screws if applicable, speed, horsepower, and application details.

Below is an ordering example of a 4 C Mill Motor type Coupling

Item (Qty)	Part Number	Description
Hex Hub (1)	G4CRB	4 C Rough Bore Hex Hub
Mill Motor Hub (1)	G4CMMRB	4 C Rough Bore Mill Motor Hub
Sleeve (1)	G4CS	4 C Sleeve
Accessory Kit (1)	G4CAK	Seals & Lockrings for C4 Coupling



C SERIES CONTINUOUS SLEEVE GEAR COUPLING - Floating Shaft Type

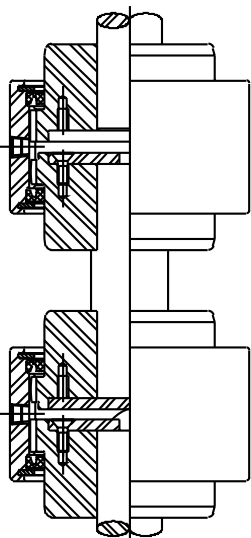


Puller holes are optional.
Setscrews are optional.

STANDARD DIMENSIONS

Size	A	B	C	D	E	F	G	G1	H (1)	J	K
7/8	3.31	3.12	2.00	2.00	1.50	1.00	0.12	0.38	3.75	0.12	1.94
1 1/2	3.75	3.75	2.53	2.38	1.81	1.27	0.12	0.50	4.59	0.19	2.25
2	4.75	4.25	2.96	3.25	2.06	1.28	0.12	0.50	4.88	0.19	3.00
2 1/2	5.50	4.75	3.06	3.94	2.25	1.53	0.25	0.75	5.72	0.25	3.75
3	6.62	5.50	3.75	4.75	2.62	1.88	0.25	0.75	6.88	0.25	4.75
3 1/2	7.50	8.75	4	5.38	4.25	2	0.25	0.75	9.25	0.25	5.50
4	8.75	9.00	4.62	6.25	4.38	2.31	0.25	0.75	9.50	0.25	6.50
4 1/2	9.50	10.25	4.88	7.25	5.00	2.44	0.25	0.75	10.38	0.25	7.25
5	10.75	12.25	5.75	8.25	6.00	2.88	0.25	0.75	12.25	0.25	8.12
6	12.25	13.00	6.5	9.5	6.38	3.25	0.25	0.75	13.38	0.25	9.25
7	14.00	14.88	7.50	10.50	7.25	3.75	0.38	0.88	15.38	0.25	9.75
9	16.25	19.00	8.12	12.62	9.25	4.06	0.50	1.00	19.00	0.25	12.50
11	19.25	22.50	8.12	15.62	11.00	4.06	0.50	1.00	22.50	0.25	15.50
12	20.50	25.00	8.38	16.50	12.25	4.19	0.50	1.00	25.00	0.25	16.00

RATINGS



SIZE	HP @ 100 RPM	TORQUE in. lbs.	MIN BORE	MAX BORE STD KEY	MAX RPM UNBALANCED	MAX RPM BALANCED	Misalignment	
							Angular Degrees per mesh	Parallel in inches (2)
7/8	4	2520	0.44	1.25	Determined by BSE		0.50	0.005
1 1/2	12	7560	0.44	1.62			0.50	0.007
2	32	20160	0.56	2.12			0.50	0.007
2 1/2	48	30240	0.81	2.62			0.50	0.010
3	80	50400	1.19	3.12	Determined by BSE		0.50	0.012
3 1/2	140	88200	1.56	3.62			0.50	0.012
4	200	126000	1.81	4.12			0.25	0.007
4 1/2	292	183960	1.81	4.75			0.25	0.007
5	430	270900	2.56	5.75			0.25	0.009
6	600	378000	4.06	6.62			0.25	0.010
7	950	598500	4.56	7.50			0.25	0.011
9	2000	1260000	5.94	9.50			0.25	0.013
11	3500	2205900	7.81	11.50			0.25	0.014
12	4000	2520000	9.81	12.50			0.25	0.014

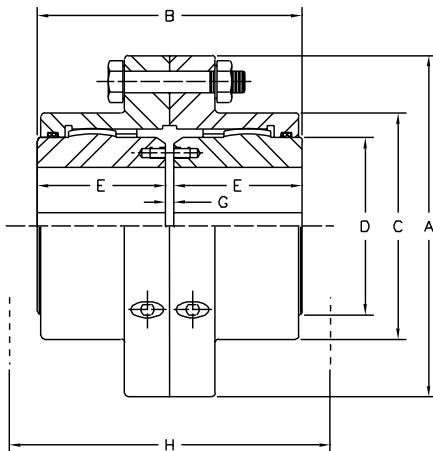
(1) "H" dimension required for installation

* When ordering please specify bore diameter with tolerances for both hubs, keyway sizes, set screws if applicable, speed, horsepower, and application details.

Vertical Floating Shaft Also Available

THIS COUPLING IS ORDERED AS ONE PIECE IF THE FLOATING SHAFT IS INCLUDED, OTHERWISE REFER TO PAGE F6-6 FOR COMPONENT EXAMPLES.

F SERIES FLANGED SLEEVE GEAR COUPLINGS



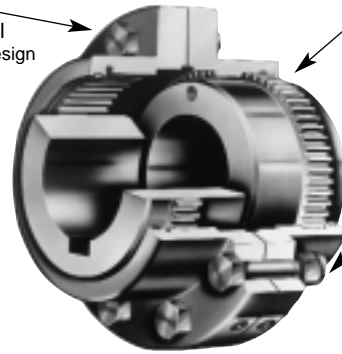
Ordering
Couplings are sold by component.

Two Sleeves
High quality carbon steel
Exposed and Shrouded Bolt Design

Two Hubs
High quality carbon steel

One Accessory Kit
Gasket and Hardware

- Exposed bolt design is standard on all sizes.
- Puller holes are optional.
- Shrouded bolt design is available on size 1 through 5 when specified.
- Shrouded bolt style; hardware is recessed in counter bored holes.



F STANDARD TYPE DIMENSIONS (3)

Size	A	B	C	D	E	G	H (1)	Max. Parallel Misalignment (4)	Approx. Wt. (Lbs.) Solid Bore
1	4.56	3.50	3.00	2.31	1.69	0.12	4.19	0.055	9
1 1/2	6.00	4.00	3.88	3.00	1.94	0.12	4.75	0.060	19
2	7.00	5.00	4.81	4.00	2.44	0.12	6.00	0.085	34
2 1/2	8.38	6.25	5.81	4.82	3.03	0.19	7.12	0.105	55
3	9.44	7.38	6.81	5.82	3.59	0.19	8.12	0.115	86
3 1/2	11.00	8.62	7.84	6.50	4.19	0.25	9.38	0.130	135
4	12.50	9.75	9.19	7.50	4.75	0.25	10.25	0.150	195
4 1/2	13.62	10.94	10.31	8.50	5.31	0.31	11.50	0.175	268
5	15.31	12.38	11.44	9.50	6.03	0.31	13.00	0.200	394
5 1/2	16.75	14.12	12.69	10.50	6.91	0.31	14.38	0.220	526
6	18.00	15.12	13.94	11.50	7.41	0.31	17.00	0.120	687
7	20.75	17.75	15.75	13.00	8.89	0.38	20.00	0.135	1017
8	23.25	22.38	18.50	15.50	11.00	0.38	25.00	0.160	1560
9	26.00	23.50	20.38	17.00	11.50	0.50	26.50	0.165	2015

RATINGS (4)

SIZE	HP @ 100 RPM	TORQUE in. lbs.	FLEXIBLE HUBS			MAX RPM UNBALANCED	MAX RPM BALANCED AGMA CL. 8 (2)
			MIN BORE	MAX BORE STD KEY	MAX BORE SHALLOW KEY		
1	12	7563	0.44	1.62	1.75	6000	9500
1 1/2	30	18900	0.44	2.13	2.25	5500	8500
2	50	31500	0.56	2.75	3.00	5000	7800
2 1/2	90	56700	0.81	3.25	3.38	4400	6800
3	150	94500	1.19	4.00	4.25	4000	6200
3 1/2	240	151300	1.56	4.62	5.00	3500	5500
4	350	220600	1.81	5.50	5.62	3000	4600
4 1/2	480	302500	1.81	6.00	6.44	2700	4100
5	690	434900	2.31	6.88	7.00	2500	3900
5 1/2	910	573600	3.06	7.75	7.88	2200	CONSULT ENGINEERING
6	1190	750000	4.06	8.63	8.75	2100	
7	1600	1006400	4.56	9.50	9.75	2000	
8	2085	1323500	5.06	11.00	--	1900	
9	2714	1827700	5.94	12.00	--	1800	

(1) "H" Dimension – Clearance to align coupling

(2) AGMA class 8 balance requires the manufacturer of two special flexible hubs

Note 3. When ordering please specify bore diameter with tolerances for both hubs, keyway sizes, set screws if applicable, speed, horsepower, and application details.

Note 4. Horsepower. Torque capacity and parallel misalignment capacity for sizes 1 through 5-1/2 are based on 1-1/2 degrees angular misalignment per gear mesh and maximum bore. Sizes 6 through 9 are based on 3/4 degree angular misalignment. Consult engineering for greater HP capacity.

Many configurations of "F" Series couplings are available to fit your unique application. Consult Wood's mechanical application engineers for design.

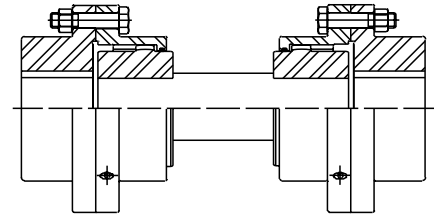
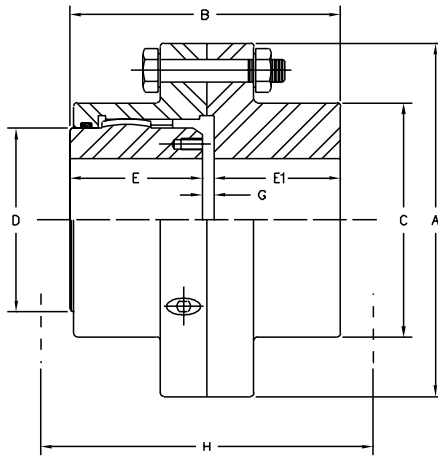
Below is an ordering example of a 4F coupling.

Item (Qty)	Part Number	Description
Flex Hubs (2)	G4FRB	4F Rough Bore Flex Hubs
Sleeves (2)	G4FSEB or G4FSSB	4F Sleeve with Exposed Bolts 4F Sleeve with Shrouded Bolts
	G4AEB or G4ASB	Hardware and Gasket for 4F with Exposed Bolts Hardware and Gasket for 4F with Shrouded Bolts

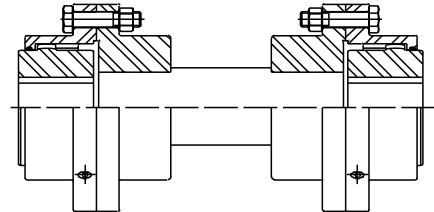


F SERIES FLANGED SLEEVE GEAR COUPLINGS - Single Engagement Type/Floating Shaft

- Exposed bolt design is standard on all sizes.
- Puller holes are optional.
- Shrouded bolt design is available on size 1 through 5 when specified.
- Shrouded bolt style; hardware is recessed in counter bored holes.



OUTBOARD RIGID HUBS



INBOARD RIGID HUBS

FFS (4)

Maximum RPM of Floating Shaft set, determined by critical speed of Floating Shaft.

**F Series Flex Rigid
FFR**

STANDARD DIMENSIONS

Size	A	B	C	D	E	E1	G	H	Approx. Wt. (Lbs.) Solid Bore
1	4.56	3.37	3.00	2.31	1.69	1.56	0.12	4.19	9
1 1/2	6.00	3.91	3.88	3.00	1.94	1.84	0.13	4.75	17
2	7.00	4.85	4.81	4.00	2.44	2.28	0.13	6.00	34
2 1/2	8.38	6.12	5.81	4.62	3.03	2.9	0.19	7.12	55
3	9.44	7.18	6.81	5.62	3.59	3.4	0.19	8.12	86
3 1/2	11.00	8.40	7.84	6.50	4.19	3.96	0.25	9.38	135
4	12.50	9.43	9.19	7.50	4.75	4.43	0.25	10.25	195
4 1/2	13.62	10.61	10.31	8.50	5.31	4.99	0.31	11.50	268
5	15.31	12.02	11.44	9.50	6.03	5.68	0.31	13.00	394
5 1/2	16.75	13.33	12.69	10.50	6.91	6.11	0.31	14.38	526
6	18.00	14.96	13.94	11.50	7.41	7.24	0.31	17.00	687
7	20.75	17.75	15.75	13	8.69	8.68	0.38	20.00	1017

RATINGS

SIZE	HP @ 100 RPM	TORQUE in. lbs.	FLEXIBLE HUBS			RIGID HUBS			MAX RPM UNBALANCED	MAX RPM BALANCED AGMA CLASS 8
			MIN BORE	MAX BORE STD KEY	MAX BORE SHALLOW KEY	MIN BORE	MAX BORE STD KEY	MAX BORE SHALLOW KEY		
1	12	7563	0.44	1.62	1.75	0.44	2.19	2.31	DETERMINED	BY BSE
1 1/2	30	18900	0.44	2.13	2.25	0.44	2.81	3.06		
2	50	31500	0.56	2.75	3.00	0.56	3.50	3.75		
2 1/2	90	56700	0.81	3.25	3.38	0.81	4.25	4.50		
3	150	94500	1.19	4.00	4.25	1.19	4.88	5.25		
3 1/2	240	151300	1.56	4.62	4.88	1.56	5.63	6.13		
4	350	220600	1.81	5.50	5.62	1.81	6.50	6.88		
4 1/2	480	302500	1.81	6.00	6.44	1.81	7.38	8.00		
5	690	434900	2.31	6.88	7.00	2.56	8.38	8.88		
5 1/2	910	573500	3.06	7.75	7.88	3.06	9.25	9.88		
6	1190	750000	4.06	8.63	8.75	4.06	10.13	11.00		
7	1600	1008400	4.56	9.50	9.75	4.56	11.25	12.25		

Note 1. Horsepower, Torque Capacity and Parallel misalignment capacity for sizes 1 through 5-1/2 are based on 1-1/2 degrees angular misalignment per gear mesh and maximum bore. Sizes 6 and 7 are based on 3/4 degrees angular misalignment.

Note 2. A single flex-rigid coupling does not accept parallel misalignment.

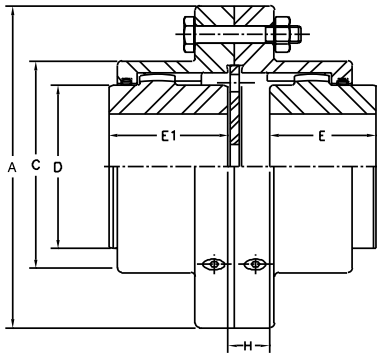
Note 3. When ordering a complete floating shaft coupling specify the distance between shaft ends, bore diameter with tolerances for both outboard hubs, keyway sizes, set screws if applicable, speed, horsepower, and all application details.

Note 4. Due to larger bore capacity outboard rigid hubs will be furnished unless otherwise specified.

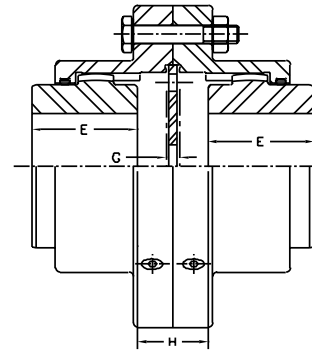
Below is an ordering example of an: 4 FFR Coupling

Item (Qty)	Part Number	Description
Flex Hub (1)	G4FPE	4F Rough Bore Flex Hub
Sleeve (1)	G4FSEB or G4FSSB	4F Sleeve with Exposed Bolts 4F Sleeve with Shrouded Bolts
	G4FREBFB or G4FRSFBFB	4F Rough Bore Rigid Hub with Exposed Bolts 4F Rough Bore Rigid Hub with Shrouded Bolts
Accessory Kit (1)	G4AEB or G4ASB	Hardware and Gasket for 4F with Exposed Bolts Hardware and Gasket for 4F with Shrouded Bolts

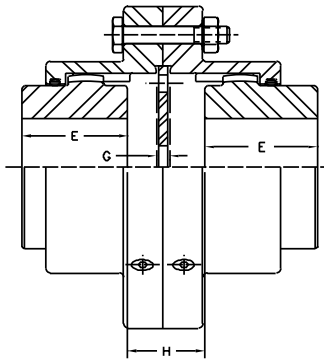
F SERIES FLANGED SLEEVE GEAR COUPLINGS - Short Slide Couplings



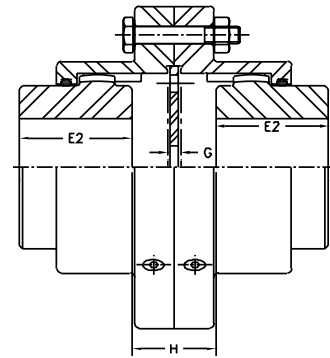
FSL-1
ONE HUB FACED OFF, ONE HUB REVERSED



FSL-2
TWO HUBS REVERSED



FSL-3
ONE HUB REVERSED, ONE MODIFIED MM HUB



FSL-4
TWO MODIFIED MM HUBS

F SERIES SHORT SLIDE DIMENSIONS

Size	A	C	D	E	E1	E2	G (2)	H (1)				Total axial travel (Fig 1)	Total axial travel (Fig 2)	Total axial travel (Fig 3)	Total axial travel (Fig 4)
								One hub reversed, one faced off (Fig 1)	Two hubs reversed (Fig 2)	One hub reversed, one mill motor hub (Fig 3)	Two mill motor hubs (Fig 4)				
1	4.56	3.00	2.31	1.69	1.69	1.69	0.12	0.16	0.50	0.16	0.50	0.16	0.31	0.66	1.00
1 1/2	6.00	3.88	3.00	1.94	1.94	1.94	0.12	0.34	0.72	0.34	0.72	0.34	0.69	1.06	1.44
2	7.00	4.81	4.00	2.44	2.44	2.44	0.12	0.59	0.97	0.59	0.97	0.59	1.19	1.56	1.94
2 1/2	8.38	5.81	4.62	3.03	3.03	3.03	0.19	0.63	1.25	0.63	1.25	0.63	1.25	1.88	2.50
3	9.44	6.81	5.62	3.59	3.59	3.59	0.19	0.75	1.50	0.75	1.50	0.75	1.50	2.25	3.00
3 1/2	11.00	7.84	6.50	4.19	4.19	4.19	0.25	0.97	1.84	0.97	1.84	0.97	1.94	2.81	3.69
4	12.50	9.19	7.50	4.75	4.75	4.75	0.25	1.00	2.03	1.00	2.03	1.00	2.00	3.03	4.06
4 1/2	13.62	10.31	8.50	5.31	5.31	5.31	0.31	1.13	2.34	1.13	2.34	1.13	2.25	3.47	4.69
5	15.31	11.44	9.50	6.03	6.03	6.03	0.31	1.19	2.66	1.19	2.66	1.19	2.38	3.84	5.31
5 1/2	14.12	10.5	6.91	6.62	6.62	6.62	0.31	1.38	2.94	1.38	2.94	1.38	2.75	4.31	5.88
6	18.00	13.94	11.50	7.41	7.41	7.41	0.31	1.81	3.41	1.81	3.41	1.81	3.63	5.22	6.81
7	20.75	15.75	13.00	8.69	8.69	8.69	0.38	1.56	3.81	1.56	3.81	1.56	3.13	5.38	7.63

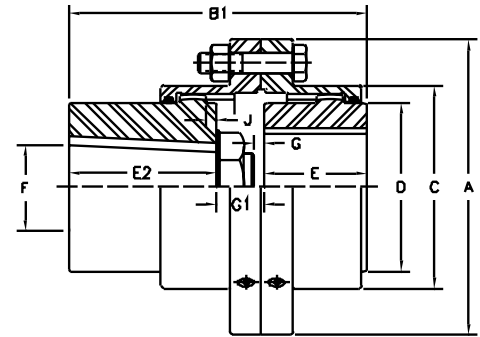
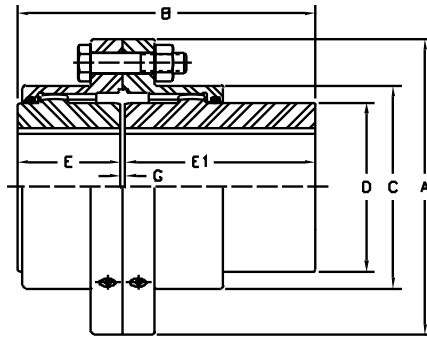
(1) Minimum distance between shaft ends.
(2) Maximum distance between shaft ends.

Note: When ordering please specify amount of slide required, bore diameter with tolerance for both hubs, keyway sizes. Setscrews if applicable, speed, horsepower and application details.



F SERIES FLANGED SLEEVE GEAR COUPLINGS - Mill Motor Type

- Exposed bolt design is standard on all sizes.
- Puller holes are optional.
- Shrouded bolt design is available on size 1 through 5 when specified.
- Shrouded bolt style; hardware is recessed in counter bored holes.



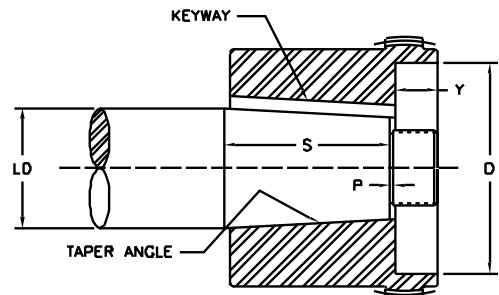
Size FMM	AISE Frame Number	A	B	B1	C	D	E	E1	E2	F	G	G1	J	KEYWAY WIDTH	KEYWAY HEIGHT	BORE STD HALF	HP/100 RPM	TORQUE	MAXIMUM RPM UNBALANCED	MAX. PARALLEL MISALIGNMENT				
1-12	602 / 602	6.00	6.563	6.000 0	3.88	3.00	1.94	4.50	3.00	1.7485/1.7495	0.13	1.062	0.125	0.500	0.250	2.13	30	18900	5500	0.060				
	603 / 603			6.5625					3.50	1.998/1.999											1.125	0.500	0.250	
	604 / 604			6.5625					3.50	1.998/1.999											1.125	0.500	0.250	
2	603 / 603	7.00	8.063	7.166 7	4.61	4.00	2.44	5.50	3.50	1.998/1.999	0.13	1.125	0.250	0.500	0.250	2.75	50	31500	5000	0.085				
	604 / 604			7.166 7					3.50	1.998/1.999											1.125	0.500	0.250	
	606 / 606			7.667 5					4.00	2.498/2.499											1.25	0.500	0.250	
2-12	603 / 603	8.38	9.719	7.718 8	5.61	4.62	3.03	6.50	3.50	1.998/1.999	0.19	1.188	0.530	0.500	0.250	3.25	90	56700	4400	0.105				
	604 / 604			7.718 8					3.50	1.998/1.999											1.188	0.530	0.500	0.250
	606 / 606			8.343 8					4.00	2.498/2.499											1.313	0.410	0.500	0.250
3	606 / 606	9.44	10.761	8.968 3	6.61	5.62	3.50	7.00	4.00	2.498/2.499	0.19	1.438	0.568	0.500	0.250	4.00	150	94500	4000	0.115				
	608 / 608			9.531 3					4.50	2.998/2.999											1.438	0.440	0.750	0.250
	610 / 610			9.696 3					4.50	3.248/3.249											1.561	0.310	0.750	0.250
3-12	612 / 612	11.00	11.938	10.281 3	7.64	6.50	4.19	7.50	4.50	3.623/3.624	0.25	1.625	0.500	0.750	0.250	4.62	240	151300	3500	0.130				
	608 / 608			10.187 5					4.50	2.998/2.999											1.500	0.630	0.750	0.250
	610 / 610			10.312 5					4.50	3.248/3.249											1.625	0.500	0.750	0.250
4	612 / 612	12.50	13.250	11.625 0	9.19	7.50	4.75	8.25	5.00	3.623/3.624	0.25	1.875	0.530	1.000	0.375	5.50	350	220600	3000	0.150				
	614 / 614			12.2500					5.50	4.62/20/4.6235											2.000	0.410	1.250	0.375
	616 / 616			12.312 5					6.00	4.9970/4.9985											1.561	0.840	1.250	0.500
4-12	614 / 614	13.62	14.625	12.250 0	10.31	8.50	5.31	9.00	5.00	4.2470/4.2485	0.31	2.063	0.700	1.250	0.375	6.00	480	302500	2700	0.175				
	616 / 616			12.875 0					5.50	4.62/20/4.6235											1.625	0.700	1.250	0.375
	618 / 618			12.937 5					6.00	4.9970/4.9985											1.625	1.270	1.250	0.500
5	614 / 614	15.31	15.844	12.970 0	11.44	9.50	6.03	9.50	5.00	4.2470/4.2485	0.31	2.063	1.310	1.000	0.375	6.88	690	404900	2500	0.200				
	616 / 616			13.590 0					5.50	4.62/20/4.6235											2.063	1.190	1.250	0.375
	618 / 618			13.656 3					6.00	4.9970/4.9985											1.625	1.630	1.250	0.500
5-12	620 / 620	16.75	17.719	14.468 8	12.69	10.50	6.91	10.50	6.75	5.8720/5.8735	0.31	2.688	0.810	1.500	0.750	7.75	910	573500	2200	0.220				
	616 / 616			15.718 8					6.75	5.8720/5.8735											2.063	1.440	1.500	0.750
	622 / 622			16.843 8					7.25	6.2470/6.2485											2.688	0.810	1.500	0.750
6	616 / 616	18.00	18.969	14.968 8	13.94	11.50	7.41	11.25	5.50	4.62/20/4.6235	0.31	1.625	1.910	1.250	0.500	8.65	1190	750000	2100	0.120				
	618 / 618			15.031 3					6.00	4.9970/4.9985											1.625	1.910	1.250	0.500
	620 / 620			16.218 8					6.75	5.8720/5.8735											2.063	1.470	1.500	0.750
	622 / 622			17.343 8				7.25	6.2470/6.2485		2.688	0.840	1.500	0.750										

*ALL KEYWAYS SHOWN ARE PARALLEL TO THE TAPER. TAPER IS 1-1/4" INCH PER FOOT ON DIAMETER.

SPECIFYING TAPERED BORES

Please provide the following information for taper bore hubs:

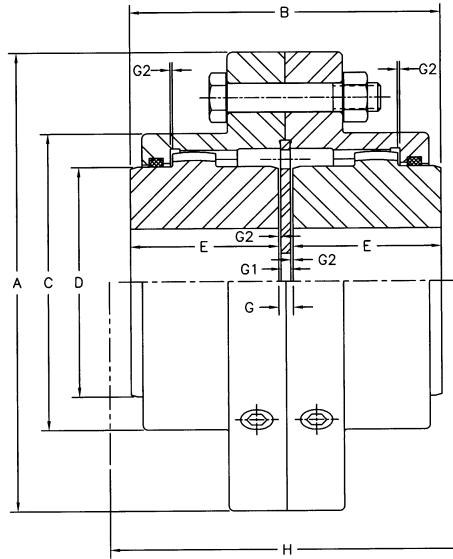
- 1) Drawing of HUB showing bore and keyway details.
OR
 - 2) Drawing of shaft showing:
 - (LD) Large diameter, specify with tolerance.
 - (S) Length of taper, measure parallel to shaft centerline.
 - (T) Taper angle. Specify as degrees, taper per foot or a percentage.
 - (P) Desired pull-up of hub on shaft.
 - (D) Counterbore diameter as required.
 - (Y) Counterbore depth as required.
- Keyway or shaft keyseat dimensions. Specify width, depth and keyway taper angle.



F SERIES FLANGED SLEEVE GEAR COUPLINGS - Limited End Float Type



- Exposed bolt design is standard on all sizes.
- Puller holes are optional.
- Shrouded bolt design is available on size 1 through 5 when specified.
- Shrouded bolt style; hardware is recessed in counter bored holes.



STANDARD DIMENSIONS (3)

Size	A	B	C	D	E	G	G1	G2	H(1)	LEF (5)	Parallel Misalignment Capacity (4)	Approx. Wt. (Lbs.) Solid Bore
1	4.56	3.56	3.00	2.31	1.69	0.19	0.13	.031	4.19	0.13	0.06	9
1 1/2	6.00	4.06	3.88	3.00	1.94	0.19	0.13	.031	4.75	0.13	0.06	19
2	7.00	5.06	4.81	4.00	2.44	0.19	0.13	.031	6.00	0.13	0.09	34
2 1/2	8.38	6.34	5.81	4.62	3.03	0.28	0.19	.047	7.12	0.19	0.11	54
3	9.44	7.47	6.81	5.62	3.59	0.28	0.19	.047	8.12	0.19	0.12	80
3 1/2	11.00	8.69	7.84	6.50	4.19	0.31	0.19	.063	9.38	0.25	0.13	130
4	12.50	9.91	9.19	7.50	4.75	0.41	0.31	.047	10.25	0.19	0.15	190
4 1/2	13.62	11.13	10.31	8.50	5.31	0.50	0.38	.063	11.50	0.25	0.18	250
5	15.31	12.59	11.44	9.50	6.03	0.53	0.38	.078	13.00	0.31	0.20	380
5 1/2	16.75	14.34	12.69	10.50	6.91	0.53	0.38	.078	14.38	0.31	0.22	520
6	18.00	15.31	13.94	11.50	7.41	0.50	0.38	.063	17.00	0.25	0.12	650
7	20.75	18.00	15.75	13.00	8.69	0.63	0.50	.063	20.00	0.25	0.14	950

RATINGS (4)

SIZE	HP @ RPM	TORQUE in. lbs.	FLEXIBLE HUBS			MAX RPM UNBALANCED	MAX RPM BALANCED AGMA CLASS 8 (2)
			MIN BORE	MAX BORE STD KEY	MAX BORE SHALLOW KEY		
1	12	7563	0.44	1.62	1.75	6000	9500
1 1/2	30	18900	0.44	2.13	2.25	5500	8500
2	50	31500	0.56	2.75	3.00	5000	7800
2 1/2	90	56700	0.81	3.25	3.38	4400	6800
3	150	94500	1.19	4.00	4.25	4000	6200
3 1/2	240	151300	1.56	4.62	4.88	3500	5500
4	350	220600	1.81	5.50	5.62	3000	4600
4 1/2	480	302500	1.81	6.00	6.44	2700	4100
5	690	434900	2.31	6.88	7.00	2500	3900
5 1/2	910	57350	3.06	7.75	7.88	2200	CONSULT FACTORY
6	1190	75000	4.06	8.63	8.75	2100	
7	1600	1008400	4.56	9.50	9.75	2000	

Notes:

- (1) "H" Dimension - Clearance to align coupling.
- (2) AGMA CLASS 8 balance requires the manufacture of two special flexible hubs.
- (3) When ordering please specify bore diameter with tolerances for both hubs, keyway sizes, set screws if applicable, speed, horsepower, application details, amount of thrust on either or both shafts, and amount of end float desired.
- (4) Horsepower, Torque Capacity and Parallel Misalignment Capacity for sizes 1 through 5-1/2 are based on 1-1/2 degrees angular misalignment per gear mesh and maximum bore. Sizes 6 & 7 are based on 3/4 degree angular misalignment. Consult Engineering for greater HP capacity.
- (5) Dimension is total end float. (May be modified to suit customer requirements.)

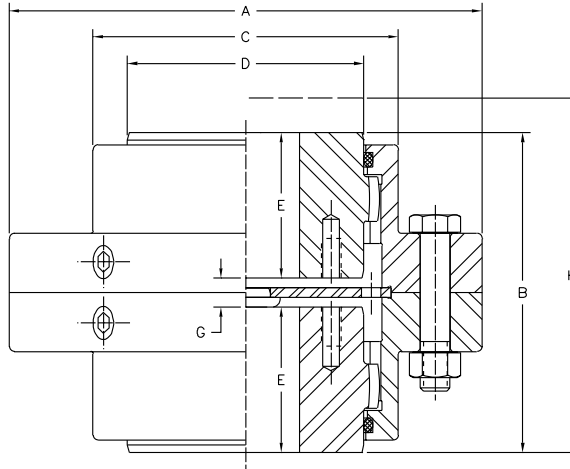
Below is an ordering example of a 4FLEF Coupling.

Item (Qty)	Part Number	Description
Flex Hubs (2)	G4FRB	4F Rough Bore Flex Hubs
Sleeves (2)	G4FSEB or G4FSSB	4F Sleeve with Exposed Bolts 4F Sleeve with Shrouded Bolts
	G4AEB or G4ASB	Hardware and Gasket for 4F with Exposed Bolts Hardware and Gasket for 4F with Shrouded Bolts
Plate (1)	G4LEF	4F LEF Plate



F SERIES FLANGED SLEEVE GEAR COUPLINGS - Vertical Type

- Vertical couplings require a vertical plate and a button. Standard flex hubs are faced off (shorten) per the "E" dimension.
- Contact factory for price and availability.
- Exposed bolt design is standard on all sizes.
- Puller holes are optional.
- Shrouded bolt design is available on size 1 through 5 when specified.
- Shrouded bolt style; hardware is recessed in counter bored holes.



STANDARD DIMENSIONS (3)

Size	A	B	C	D	E	G	H (1)
1	4.56	3.50	3.00	2.31	1.59	0.31	4.19
1 1/2	6.00	4.00	3.88	3.00	1.78	0.44	4.75
2	7.00	5.00	4.81	4.00	2.28	0.44	6.00
2 1/2	8.38	6.25	5.81	4.62	2.84	0.56	7.12
3	9.44	7.38	6.81	5.62	3.41	0.56	8.12
3 1/2	11.00	8.62	7.84	6.50	3.97	0.69	9.38
4	12.50	9.75	9.19	7.50	4.44	0.88	10.25
4 1/2	13.62	10.94	10.31	8.50	4.97	1.00	11.50
5	15.31	12.38	11.44	9.50	5.69	1.00	13.00
5 1/2	16.75	14.12	12.69	10.50	6.56	1.00	14.38
6	18.00	15.12	13.94	11.50	7.00	1.12	17.00
7	20.75	17.75	15.75	13.00	8.12	1.50	20.00

RATINGS (4)

SIZE	HP @ 100 RPM	TORQUE in. lbs.	FLEXIBLE HUBS			MAXIMUM RPM UNBALANCED	MAX RPM BALANCED AGMA CLASS 8 (2)
			MIN BORE	MAX BORE STD KEY	MAX BORE SHALLOW KEY		
1	12	7563	0.440	1.620	1.750	6000	9500
1 1/2	30	18900	0.440	2.130	2.250	5500	8500
2	50	31500	0.560	2.750	3.000	5000	7800
2 1/2	90	56700	0.810	3.250	3.380	4400	6800
3	150	94500	1.190	4.000	4.250	4000	6200
3 1/2	240	151300	1.560	4.620	4.880	3500	5500
4	350	220600	1.810	5.500	5.620	3000	4600
4 1/2	480	302500	1.810	6.000	6.440	2700	4100
5	690	434900	2.310	6.880	7.000	2500	3900
5 1/2	910	573500	3.060	7.750	7.880	2200	CONSULT FACTORY
6	1190	750000	4.060	8.630	8.750	2100	CONSULT FACTORY
7	1600	1008400	4.560	9.500	9.750	2000	CONSULT FACTORY

THIS COUPLING IS ORDERED AS A COMPLETE UNIT

Notes:

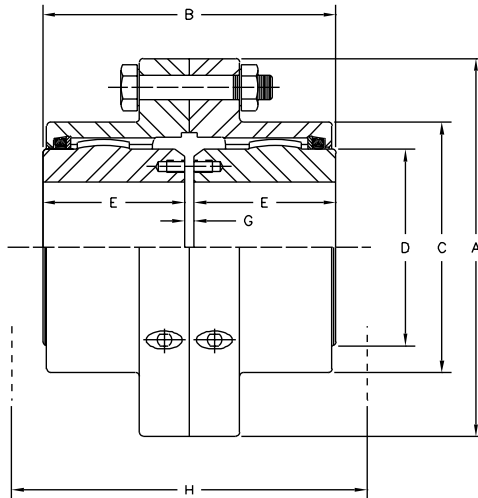
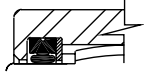
- (1) When ordering please specify bore diameter with tolerances for both hubs, keyway sizes, set screws if applicable, speed, horsepower, and application details.
- (2) Horsepower, Torque capacity, and parallel misalignment capacity for sizes 1 through 5-1/2 are based on 1-1/2 degrees angular misalignment per gear mesh and maximum bore. Sizes 6 through 9 are based on 3/4 degree angular misalignment. Consult engineering for greater HP capacity.
- (3) "H" Dimension - Clearance to align coupling.
- (4) AGMA class 8 balance requires the manufacture of two special flexible hubs. Many configurations of "F" Series couplings are available to fit your unique application. Consult Wood's mechanical application engineers for design.

MXB SERIES FLANGED SLEEVE GEAR COUPLINGS

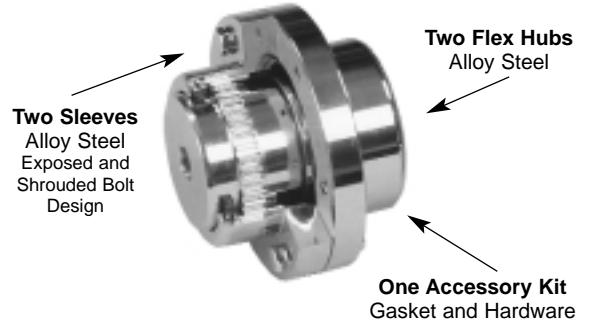


- Exposed bolt design is standard on all sizes.
- Puller holes are optional.
- Shrouded bolt design is available on size 1 through 5 when specified.
- Shrouded bolt style; hardware is recessed in counter bored holes.

High misalignment molded seal.
Fully crowned gear teeth.



Ordering
Couplings are sold by component.



MXB STANDARD TYPE DIMENSIONS

SIZE	A	B	C	D	E	G	H *	Max.Parallel Misalignment	Approx. Wt. (lbs.)
1	4.56	3.50	3.00	2.31	1.69	0.12	4.25	0.055	9
1-1/2	6.00	4.25	3.81	3.12	2.06	0.12	4.50	0.060	19
2	7.00	5.00	4.81	4.00	2.44	0.12	6.25	0.085	34
2-1/2	8.38	6.25	5.72	4.72	3.03	0.19	7.75	0.105	54
3	9.44	7.38	6.72	5.62	3.59	0.19	9.00	0.115	80
3-1/2	11.00	8.62	7.75	6.62	4.19	0.25	10.50	0.130	130
4	12.50	9.75	8.97	7.50	4.75	0.25	12.00	0.150	190
4-1/2	13.62	11.06	10.12	8.50	5.38	0.31	14.25	0.175	250
5	15.31	12.56	11.38	9.50	6.12	0.31	15.12	0.200	380
5-1/2	16.56	13.56	12.56	10.42	6.62	0.31	16.50	0.220	520
6	18.00	15.06	13.88	11.75	7.38	0.31	19.00	0.120	650
7	20.75	17.75	15.75	13.25	8.69	0.38	22.00	0.135	950

* H Dimension - Clearance to Align Coupling

MXB SERIES RATINGS

SIZE	HP @ 100 RPM	TORQUE in. lbs.	MIN BORE	MAX BORE Std. Key	MAX BORE Shallow Key	MAX RPM Unbalanced
1	18	11340	0.44	1.62	1.75	10000
1-1/2	36	22700	0.44	2.19	2.25	7400
2	62	39000	0.56	2.75	2.88	5900
2-1/2	110	69300	0.81	3.25	3.38	5000
3	187	118000	1.19	4.00	4.25	4300
3-1/2	281	177000	1.56	4.75	5.00	3900
4	418	263400	1.81	5.38	5.62	3500
4-1/2	562	354000	1.81	6.00	6.50	3200
5	720	454000	2.31	6.75	7.00	2900
5-1/2	994	626500	3.06	7.75	7.75	2700
6	1265	797000	4.06	8.75	8.75	2500
7	1800	1134000	4.56	9.75	9.75	2200

Notes:

- Horsepower, Torque Capacity and Parallel misalignment for sizes 1 through 5-1/2 are based on 1-1/2° angular misalignment per gear mesh and maximum bore. Sizes 6 and 7 are based on 3/4° angular misalignment. Consult TB Wood's mechanical engineering for greater HP capacity.
- When ordering please specify bore diameter with tolerance for both hubs, keyway sizes, set screws if applicable, speed, horsepower and application details.

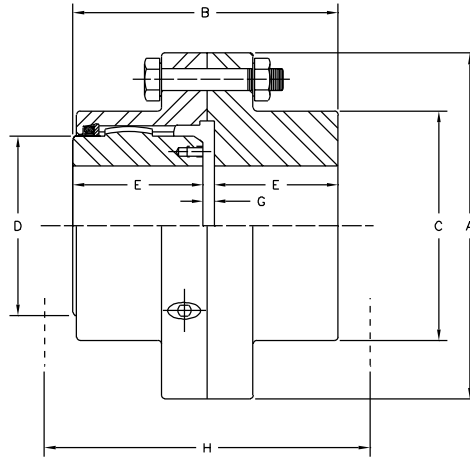
Below is an ordering example of a 4 MXB coupling

Item (Qty)	Part Number	Description
Flex Hubs (2)	G4MRB	4MXB Rough Bore Flex Hubs
Sleeves (2)	G4MSEB or G4MSSB	4MXB Sleeve with Exposed Bolts 4MXB Sleeve with Shrouded Bolts
Accessory Kit (1)	G4AEB or G4ASB	Hardware and Gasket for 4MXB with Exposed Bolts Hardware and Gasket for 4MXB with Shrouded Bolts

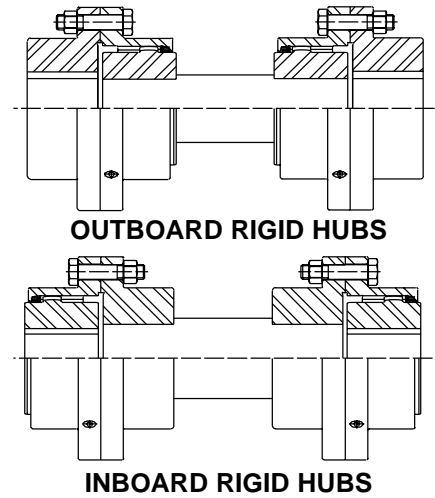


MXB SERIES FLANGED SLEEVE GEAR COUPLINGS – Single Engagement Type/Floating Shaft

- Exposed bolt design is standard on all sizes.
- Puller holes are optional.
- Shrouded bolt design is available on size 1 through 5 when specified.
- Shrouded bolt style; hardware is recessed in counterdrilled holes.



MXB Series Flex Rigid MXBFR (2)



MXBFS (4)

Maximum RPM of Floating Shaft set, determined by critical speed of Floating Shaft.



High misalignment molded seal. Fully crowned gear teeth.

Size	A	B	C	C1	D	E	E1	G	Approx. Wt. (Lbs.) Solid Bore
1	4.56	3.50	3.00	3.00	2.31	1.69	1.56	0.12	9
1 1/2	6.00	4.25	3.81	3.88	3.12	2.06	1.84	0.13	19
2	7.00	5.00	4.81	4.81	4.00	2.44	2.28	0.13	34
2 1/2	8.38	6.25	5.72	5.81	4.72	3.03	2.9	0.19	55
3	9.44	7.38	6.72	6.81	5.62	3.59	3.4	0.19	86
3 1/2	11.00	8.62	7.75	7.84	6.62	4.19	3.96	0.25	135
4	12.50	9.75	8.97	9.19	7.50	4.75	4.43	0.25	195
4 1/2	13.62	11.06	10.12	10.31	8.50	5.38	4.99	0.31	268
5	15.31	12.56	11.38	11.44	9.50	6.12	5.68	0.31	394
5 1/2	16.75	13.56	12.56	12.69	10.42	6.62	6.11	0.31	526
6	18.00	15.06	13.88	13.94	11.75	7.38	7.24	0.31	687
7	20.75	17.75	15.75	15.75	13.25	8.69	8.68	0.38	1017

Note 1. Horsepower, Torque Capacity for sizes 1 through 5-1/2 degrees angular misalignment per gear mesh and maximum bore. Sizes 6 and 7 are based on 3/4 degrees angular misalignment.

Note 2. A single flex-rigid coupling does not accept parallel misalignment.

Note 3. When ordering a complete floating shaft coupling specify the distance between shaft ends, bore diameter with tolerances for both outboard hubs, keyway sizes, set screws if applicable, speed, horsepower, and all application details.

Note 4. Due to larger bore capacity outboard rigid hubs will be furnished unless otherwise specified.

RATINGS (1)

SIZE	HP @ 100 RPM	TORQUE in. lbs.	FLEXIBLE HUBS			RIGID HUBS			MAX RPM
			MIN BORE	MAX BORE STD KEY	MAX BORE SHALLOW KEY	MIN BORE	MAX BORE STD KEY	MAX BORE SHALLOW KEY	
1	18	11340	0.44	1.62	1.75	0.44	2.19	2.31	DETERMINED BY BSE
1 1/2	36	22700	0.44	2.19	2.25	0.44	2.81	3.06	
2	62	39000	0.56	2.75	2.88	0.56	3.50	3.75	
2 1/2	110	69300	0.81	3.25	3.38	0.81	4.25	4.50	
3	187	118000	1.19	4.00	4.25	1.19	4.88	5.25	
3 1/2	281	177000	1.56	4.75	5.00	1.56	5.63	6.13	
4	418	263400	1.81	5.38	5.62	1.81	6.50	6.88	
4 1/2	562	354000	1.81	6.00	6.50	1.81	7.38	8.00	
5	720	454000	2.31	6.75	7.00	2.56	8.38	8.88	
5 1/2	994	626500	3.06	7.75	7.75	3.06	9.25	9.88	
6	1265	797000	4.06	8.75	8.75	4.06	10.13	11.00	
7	1800	1134000	4.56	9.75	9.75	4.56	11.25	12.25	

Below is an ordering example of a 4 MXB FR Coupling

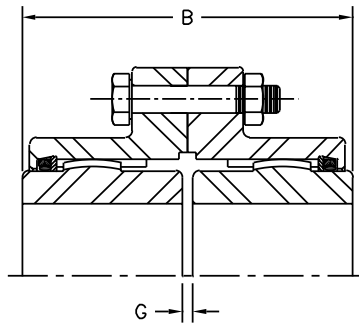
Item (Qty)	Part Number	Description
Flex Hub (1)	G4MRB	4 MXB Rough Bore Flex Hub
Sleeve (1)	G4MSEB or G4MSSB	4 MXB Sleeve with Exposed Bolts 4 MXB Sleeve with Shrouded Bolts
Rigid Hub (1)	G4FREBRB or G4FRSBRB	4 MXB Rough Bore Rigid Hub with Exposed Bolts 4 MXB Rough Bore Rigid Hub with Shrouded Bolts
Accessory Kit (1)	G4AEB or G4ASB	Hardware and Gasket for 4 MXB with Exposed Bolts Hardware and Gasket for 4 MXB with Shrouded Bolts

MXB SERIES GEAR COUPLINGS

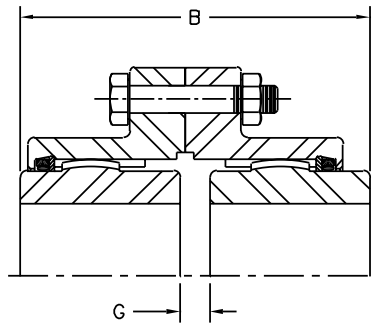


Mounting Options

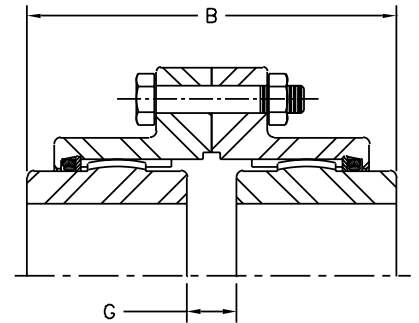
To allow for larger between-shaft spacing, the overall length of a standard MXB Series coupling can vary by reversing one or both hubs.



Standard



One Hub Reversed

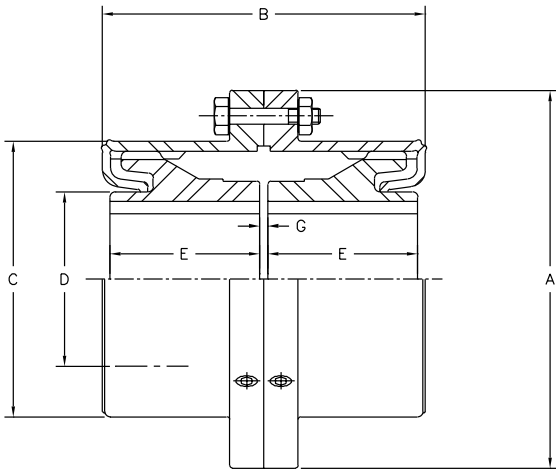


Both Hubs Reversed

SIZE	Standard		One Hub Reversed		Both Hubs Reversed	
	B	G	B	G	B	G
1M	3.50	0.12	3.75	0.38	4.00	0.62
1-1/2M	4.25	0.12	4.69	0.56	5.12	1.00
2M	5.00	0.12	5.69	0.81	6.38	1.50
2-1/2M	6.25	0.19	6.97	0.91	7.69	1.62
3M	7.38	0.19	8.22	1.03	9.06	1.88
3-1/2M	8.62	0.25	9.69	1.31	10.75	2.38
4M	9.75	0.25	10.94	1.44	12.12	2.62
4-1/2M	11.06	0.31	12.38	1.62	13.69	2.94
5M	12.56	0.31	13.94	1.69	15.31	3.06
5-1/2M	13.56	0.31	15.12	1.88	16.69	3.44
6M	15.06	0.31	17.06	2.31	19.06	4.31
7M	17.75	0.38	19.56	2.19	21.38	4.00

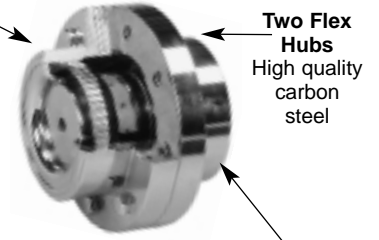


K100 SERIES LABYRINTH SEAL GEAR COUPLINGS



Two Sleeves
High quality carbon steel
Exposed and
Shrouded Bolt Design

Ordering
Couplings are sold by component.



Two Flex Hubs
High quality carbon steel

One Accessory Kit
Gasket and Hardware

- Labyrinth Seal Ideal for Higher Temperatures.
- For Sizes 1-1/2 through 5 specify either exposed or shrouded bolts when ordering.
- Exposed bolts are standard on sizes 5-1/2 and larger.
- Puller holes are not standard, but can be provided at additional cost.
- Maximum angular misalignment is 1/2 degree per coupling half.

K100 STANDARD TYPE DIMENSIONS (1)

SIZE	A	B	C	D	E	G	Approx. Wt. (lbs.) (2)
1-1/2K	6.00	4.19	3.97	2.19	1.94	0.12	17
2K	7.00	5.19	4.91	2.88	2.44	0.12	27
2-1/2K	8.38	6.44	5.91	3.62	3.03	0.19	48
3K	9.44	7.69	6.91	4.25	3.59	0.19	71
3-1/2K	11.00	8.88	7.91	5.00	4.19	0.25	113
4K	12.50	10.12	9.25	5.75	4.75	0.25	177
4-1/2K	13.62	11.38	10.38	6.50	5.31	0.31	231
5K	15.31	12.62	11.56	7.31	6.03	0.31	351
5-1/2K	16.75	13.88	12.81	8.00	6.91	0.31	435
6K	18.00	14.88	14.00	8.81	7.41	0.31	538
7K	20.75	17.38	15.75	10.31	8.69	0.38	860

K100 SERIES RATINGS

SIZE	HP @ 100 RPM	TORQUE in. lbs.	MIN BORE	MAX BORE Std. Key	MAX BORE Shallow Key	MAX RPM
1-1/2K	27	17017	0.44	1.62	1.75	12000
2K	50	31512	0.56	2.13	2.25	9300
2-1/2K	90	56722	0.81	2.75	3.00	7900
3K	160	100840	1.19	3.12	3.38	6800
3-1/2K	235	148109	1.56	3.75	4.00	6000
4K	375	236344	1.81	4.25	4.50	5260
4-1/2K	505	318276	1.81	4.75	5.12	4770
5K	700	441175	2.31	5.50	5.88	4300
5-1/2K	920	579830	3.06	5.88	6.38	3880
6K	1205	759451	4.06	6.50	7.00	3600
7K	1840	1159660	4.56	8.00	8.50	3000

Many Configurations of K100 Series Couplings are available to Fit Your Unique Application. Consult Wood's Application Engineers for Design Assistance.

- (1) When ordering please specify bore diameter with tolerances for both hubs, keyway sizes, set screws if applicable, speed, horsepower, and application details.
 (2) Approximate Weights = Assembly Weights with Rough Bores

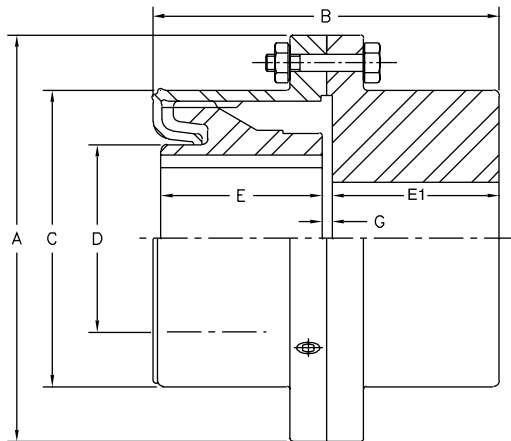
Below is an ordering example of an 4 K Coupling

Item (Qty)	Part Number	Description
Hex Hub (2)	G4KRB	4 K Rough Bore Flex Hub
Sleeve (2)	G4KSEB or G4KSSB	4 K Sleeve with Exposed Bolts 4 K Sleeve with Shrouded Bolts
Accessory Kit (1)	G4AEB or G4ASB	Hardware and Gasket for 4 K with Exposed Bolts Hardware and Gasket for 4 K with Shrouded Bolts

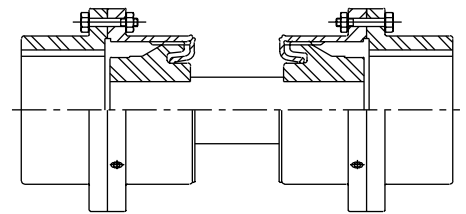
K100 SERIES LABYRINTH SEAL GEAR COUPLINGS - Single Engagement Type/Floating Shaft



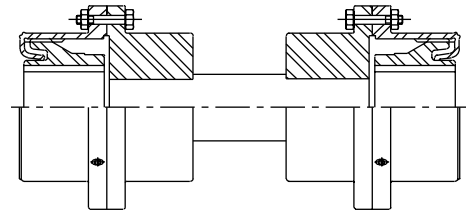
- Labyrinth Seal Ideal for Higher Temperatures.
- For Sizes 1-1/2 through 5 specify either exposed or shrouded bolts when ordering.
- Exposed bolts are standard on sizes 5-1/2 and larger.
- Puller holes are not standard, but can be provided at additional cost.
- Maximum angular misalignment is 1/2 degree per coupling half.



KFR (1)



OUTBOARD RIGID HUBS



INBOARD RIGID HUBS

KFS (3)

Maximum RPM of Floating Shaft set, determined by critical speed of Floating Shaft.

STANDARD DIMENSIONS (2)

Size	A	B	C	D	E	E1	G	Approx. Wt. (Lbs.) Solid Bore
1 1/2	6.00	4.19	3.97	2.19	1.94	1.84	0.12	18
2	7.00	5.19	4.91	2.88	2.44	2.28	0.12	30
2 1/2	8.38	6.44	5.91	3.62	3.03	2.9	0.19	54
3	9.44	7.69	6.91	4.25	3.59	3.4	0.19	79
3 1/2	11.00	8.88	7.91	5.00	4.19	3.96	0.25	124
4	12.50	10.12	9.25	5.75	4.75	4.43	0.25	185
4 1/2	13.62	11.38	10.38	6.50	5.31	4.99	0.31	254
5	15.31	12.62	11.56	7.31	6.03	5.68	0.31	365
5 1/2	16.75	13.88	12.81	8.00	6.91	6.11	0.31	450
6	18.00	14.88	14	8.81	7.41	7.24	0.31	566
7	20.75	17.38	15.75	10.31	8.69	8.68	0.38	849

RATINGS

SIZE	HP @ 100 RPM	TORQUE in. lbs.	FLEXIBLE HUBS			RIGID HUBS			MAX RPM UNBALANCED
			MIN BORE	MAX BORE STD KEY	MAX BORE SHALLOW KEY	MIN BORE	MAX BORE STD KEY	MAX BORE SHALLOW KEY	
1 1/2	27	17017	0.44	1.620	1.750	0.440	2.813	3.063	DETERMINED BY BSE
2	50	31512	0.56	2.130	2.250	0.560	3.500	3.750	
2 1/2	90	56722	0.81	2.750	3.000	0.810	4.250	4.500	
3	160	100840	1.19	3.120	3.380	1.190	4.875	5.250	
3 1/2	235	148109	1.56	3.750	4.000	1.560	5.625	6.125	
4	375	236344	1.81	4.250	4.500	1.810	6.500	6.875	
4 1/2	505	318276	1.81	4.750	5.120	1.810	7.375	8.000	
5	700	441175	2.56	5.500	5.880	2.560	8.375	8.875	
5 1/2	920	579830	3.06	5.880	6.380	3.060	9.250	9.875	
6	1205	759941	4.06	6.500	7.000	4.060	10.125	11.000	
7	1840	1159660	4.56	8.000	8.500	4.560	11.250	12.250	

Note 1. A single flex-rigid coupling does not accept parallel misalignment.

Note 2. When ordering a complete floating shaft coupling specify the distance between shaft ends, bore diameter with tolerances for both outboard hubs, keyway sizes, set screws if applicable, speed, horsepower, and all application details.

Note 3. Due to larger bore capacity outboard rigid hubs will be furnished unless otherwise specified.

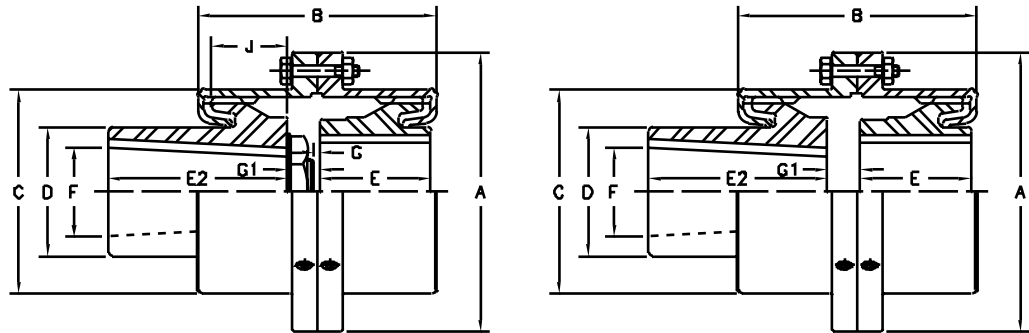
Below is an ordering example of an 4 KFR Coupling

Item (Qty)	Part Number	Description
Flex Hub (1)	G4KRB	4K Rough Bore Hex Hub
Sleeve (1)	G4KSEB or G4KSSB	4K Sleeve with Exposed Bolts 4K Sleeve with Shrouded Bolts
Rigid Hub (1)	G4FREBRB or G4FRSBRB	4K Rough Bore Rigid Hub with Exposed Bolts 4K Rough Bore Rigid Hub with Shrouded Bolts
Accessory Kit (1)	G4AEB or G4ASB	Hardware and Gasket for 4K with Exposed Bolts Hardware and Gasket for 4K with Shrouded Bolts



K100 SERIES LABYRINTH SEAL GEAR COUPLINGS – Mill Motor Type

- Labyrinth Seal Ideal for Higher Temperatures.
- For Sizes 1-1/2 through 5 specify either exposed or shrouded bolts when ordering.
- Exposed bolts are standard on sizes 5-1/2 and larger.
- Puller holes are not standard, but can be provided at additional cost.
- Maximum angular misalignment is 1/2 degree per coupling half.



Size KMM	AISE Frame Number	A	B	C	D	E	E1	E2	F	G	G1	J	KEYWAY WIDTH	KEYWAY HEIGHT	MAX BORE STD HALF	HP/100 RPM	TORQUE N. LBS.	MAXIMUM RPM UNBALANCED
1-1/2	602 / 802	6.00	4.00	3.97	2.19	1.94	3.583	3.00	1.7485/1.7495	0.125	1.187	0.813	0.50	0.125	1.620	27	17017	12000
2	602 / 802	7.00	5.19	4.91	2.88	2.44	4.438	3.00	1.7485/1.7495	0.125	1.187	0.813	0.50	0.250	2.125	50	31512	9300
	3.50							1.998/1.999	1.125		1.188							
	3.50							1.998/1.999	1.125		1.188							
2 1/2	602 / 802	8.38	6.44	8.38	3.62	3.03	4.583	3.00	1.7485/1.7495	0.188	1.125	1.781	0.50	0.250	2.750	90	58722	7900
	603 / 803			5.91				1.998/1.999	1.188		1.719							
	604 / 804			5.91				1.998/1.999	1.188		1.719							
	606 / 806			5.91				2.4982/4.99	1.313		1.504							
3	602 / 802	9.44	7.69	6.91	4.25	3.59	5.125	3.00	1.7485/1.7495	0.188	1.125	2.344	0.50	0.250	3.125	160	100840	8800
	603 / 803							3.50	1.998/1.999		1.188	2.281						
	604 / 804							3.50	1.998/1.999		1.188	2.281						
	606 / 806							4.00	2.4982/4.99		1.313	2.158						
	608 / 808							4.50	2.9982/4.99		1.438	2.031						
3 1/2	603 / 803	11.00	8.88	7.91	5.00	4.19	5.750	3.50	1.998/1.999	0.250	1.250	2.813	0.50	0.250	3.750	235	148109	8000
	604 / 804							3.50	1.998/1.999		1.250	2.813						
	606 / 806							4.00	2.4982/4.99		1.375	2.888						
	608 / 808							4.50	2.9982/4.99		1.500	2.563						
	610 / 810							4.50	3.2483/2.49		1.625	2.438						
	612 / 812							5.00	3.6233/6.24		1.750	2.313						
4	606 / 806	12.50	10.12	9.25	5.75	4.75	6.375	4.00	2.4982/4.99	0.250	1.375	3.250	0.50	0.250	4.250	375	238344	5260
	608 / 808							4.50	2.9982/4.99		1.500	3.125						
	610 / 810							4.50	3.2483/2.49		1.500	3.000						
	612 / 812							5.00	3.6233/6.24		1.750	2.875						
	614 / 814							5.00	4.2470/4.2485		1.875	2.750						
4 1/2	610 / 810	13.62	11.38	10.38	6.50	5.31	6.438	4.50	3.2483/2.49	0.313	1.688	3.531	0.75	0.250	4.750	505	318278	4770
	612 / 812							5.00	3.6233/6.24		1.813	3.408						
	614 / 814							5.00	4.2470/4.2485		1.938	3.281						
	616 / 816							5.50	4.6220/4.6235		2.344	4.158						
	618 / 818							6.00	4.9970/4.9985		1.625	3.584						
5	612 / 812	15.31	12.62	11.58	7.31	6.03	6.000	5.00	3.6233/6.24	0.313	1.813	3.969	0.75	0.250	5.500	700	441175	4300
	614 / 814							5.00	4.2470/4.2485		1.938	3.844						
	616 / 816							5.50	4.6220/4.6235		2.083	1.781						
	618 / 818							6.00	4.9970/4.9985		1.625	4.158						
5 1/2	616 / 816	16.75	13.88	12.81	8.00	6.91	8.313	5.50	4.6220/4.6235	0.313	2.083	3.625	1.25	0.375	5.875	920	579830	3880
	618 / 818							6.00	4.9970/4.9985		1.625	4.719						
	620							6.75	5.8720/5.8735		2.083	4.281						
6	620	18.00	14.88	14.00	8.81	7.41	9.875	6.75	5.8720/5.8735	0.313	2.083	4.844	1.50	0.750	6.500	1205	759451	3600
	622							7.25	6.2470/6.2485		2.688	4.219						
	624							9.25	6.9978/6.999		2.688	5.031						
7	622	20.75	17.38	15.75	10.31	8.69	9.250	7.25	6.2470/6.2485	0.375	2.750	5.313	1.50	0.750	8.000	1840	1159680	3000
	624							9.25	6.9978/6.999		2.688	5.031						

*ALL KEYWAYS SHOWN ARE PARALLEL TO THE TAPER. TAPER IS 1-1/4 INCH PER FOOT ON DIAMETER.

SPECIFYING TAPERED BORES

Please provide the following information for taper bore hubs:

1) Drawing of HUB showing bore and keyway details

OR

2) Drawing of shaft showing:

Large End, specify with tolerance

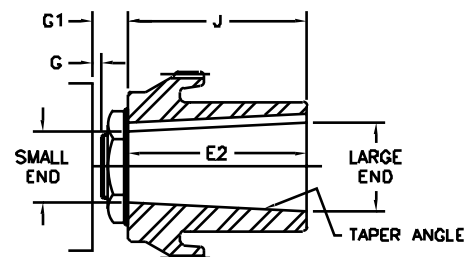
Small End, Specify with tolerance

Taper Angle, Specify as degrees, or taper per foot

Keyway dimensions, Specify width depth and taper angle

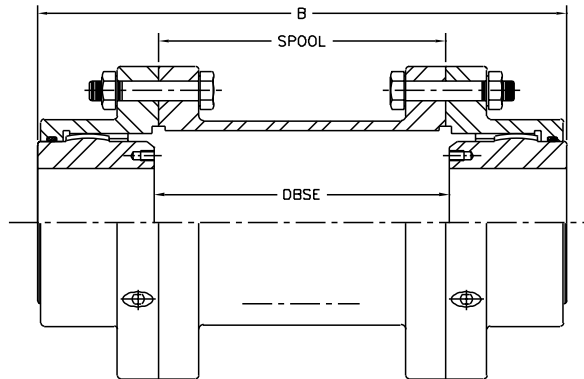
(E2) Specify length through bore

Desired pull up on shaft

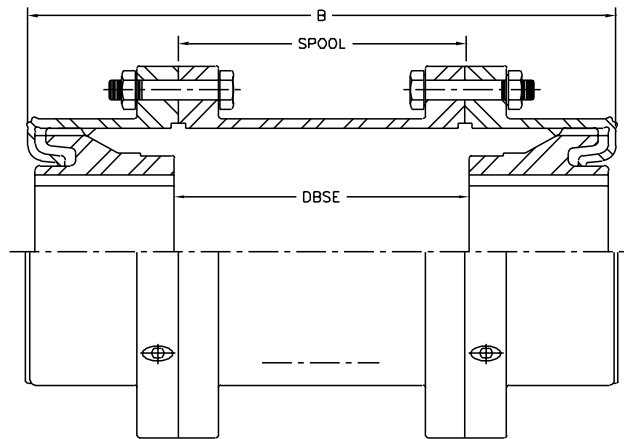


STOCK SPACERS

For Use With F, MXB, or K100 Series Couplings



"F" or "MXB" Spacer Type Coupling



"K 100" Series Spacer Type Coupling

Coupling Size	DBSE	Spacer Part Number	SPOOL LENGTH	F Series "B" Dimension	MXB Series "B" Dimension	K Series "B" Dimension	MAX RPM	Approx. Spacer weight
1 1/2	4 3/8	G15EBX438	4.25	8.154	8.394	8.37	5500	9.8
1 1/2	5	G15EBX5	4.88	8.784	9.024	9	5500	10.7
2	4 3/8	G2EBX438	4.25	9.154	9.37	9.37	5000	13.4
2	5	G2EBX5	4.88	9.784	10	10	5000	14.1
2	7	G2EBX7	6.88	11.784	12	12	5000	16.6
2 1/2	5	G25EBX5	4.81	11.25	11.25	11.25	4400	24
2 1/2	7	G25EBX7	6.81	13.25	13.25	13.25	4400	27
3	5	G3EBX5	4.81	12.37	12.37	12.37	4000	29
3	7	G3EBX7	6.81	14.37	14.37	14.37	4000	33
3 1/2	5	G35EBX5	4.75	13.63	13.63	13.63	3500	45
3 1/2	7	G35EBX7	6.75	15.63	15.63	15.63	3500	51

Other Sizes, DBSE's, and shrouded bolt patterns are Available as Specials.

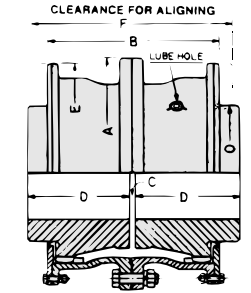
C Series Spacer couplings are also available, consult factory.

Below is an ordering example of a 2 FSP Coupling

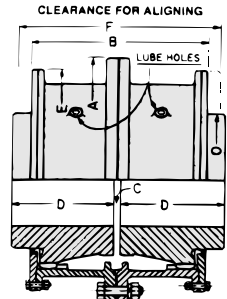
Item (Qty)	Part Number	Description
Hex Hub (2)	G2FRB	2 F Rough Bore Flex Hub
Sleeve (2)	G2FSEB	2 F Sleeve with Exposed Bolts
Spacer (1)	G2EBX5	2 X 5" DBSE Spacer with Exposed Bolts
Accessory Kit (2)	G2AEB	Hardware and Gasket for 2 F with Exposed Bolts



Poole® Forged Steel Full-Flex Coupling



CONFIGURATION (NON-SHADED AREAS)

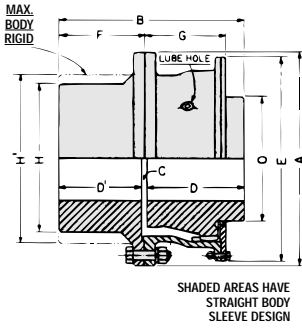


CONFIGURATION (SHADED AREAS)

Coupling No.	Max. Bore with 2-Reduced Keyways ¹	Torque Rating In.-Lbs. x 10 ³	H.P. Per 100 R.P.M.	Max. Speed-R.P.M.	Dimensions in Inches								Lube Capacity in Gallons	Net Weight in Pounds	Ship. Weight in Pounds	Coupling No.
					A	B	C	D	E	F	O					
601	7¼-1¼ x ¾	.370	587	2400	16	12½/16	¾	7½/32	15½	15	9¾	¾	500	550	601	
701	9-1½ x ½	.598	949	2200	18¼	14¾	¾	8½/16	17½	16½	11¾	¾	750	800	701	
801	10⅞-1½ x ½	.890	1412	2000	21	16¾	¾	9¾/16	20	18¾	13	¾	1200	1300	801	
901	11⅞-1¾ x ½	1.271	2017	1800	23	18	¾	10¾	22	21	14¾	¾	1600	1700	901	
1001	12½-2 x ¾	1.727	2740	1600	26	19¾	½	12	24¾	23¾	16¾	1	2100	2200	1001	
1101	14¾-2¼ x ¾	2.577	4089	1400	28	21¾	½	13¾	26¾	25¾	18¾	1¼	2750	2900	1101	
1201	15¾-2½ x ¾	3.384	5369	1250	30¼	23¾	½	13¾	29	27¾	20	1½	3500	3650	1201	
1301	16-2½ x ¾	4.298	6820	1100	34¼	25¾	½	14¾	32¾	29¾	20¾	1¾	4200	4350	1301	
1401	18-3 x 1	5.214	8273	950	35½	27¾	¾	15¾	33¾	31¾	23	2	5000	5150	1401	
1501	19¾-3 x 1	7.058	11199	750	39	29	¾	16½	37¾	34	25	2½	6150	6300	1501	
1601	20½-3½ x 1¼	8.399	13326	550	44¼	31	¾	17¾	39½	36	26½	7	7700	7850	1601	
1701	21¾-3½ x 1¼	9.974	15825	550	44¼	33	1	17¾	42¼	39	28	¾	8400	8550	1701	
1801	23-3½ x 1¼	11.464	18190	400	48½	33¾	1	18	44¼	39¾	29¾	8	10000	10200	1801	
1901	25¾-4 x 1½	13.186	20922	400	48½	34¾	1	18	46½	41¾	32¾	4	11100	11300	1901	
2001	26-4 x 1½	14.845	23554	300	53½	37¾	1	21½	48¾	44¾	33	10	13400	13700	2001	
2101	27¾-4 x 1½	16.945	26886	300	53½	40¼	1	21½	51½	47	35	4½	14800	15100	2101	
2201	28¾-5 x 1¾	19.233	30516	200	56	42¼	1	23	52½	49	36½	12	17000	17400	2201	
2301	30¾-5 x 1¾	20.679	32811	200	56	44	1	23	54	51	38	5½	18800	19200	2301	
2401	32¼-5 x 1¾	23.833	37815	200	62½	45¾	1	24¼	56	52¼	40	14½	22000	22500	2401	
2501	33¾-5 x 1¾	25.849	41014	200	62½	47½	1	24¼	60¼	55	41¾	7	23550	24050	2501	
2601	34¼-5½ x 2	30.246	47990	200	71	49¼	1	26½	61½	56¾	43	17	27500	28000	2601	
2701	36¾-6 x 2	33.046	52433	200	71	51	1	26½	63½	59	45	20	28600	29100	2701	
2801	38¼-6 x 2	36.945	58620	200	77	51	1	27¾	65½	59	47	21	32500	33000	2801	
2901	40¾-6 x 2	41.136	65269	200	77	51	1	28	67	59	49	22	34450	34950	2901	
3001	44¾-7 x 2½	54.390	86299	200	78	51	1	30	73½	59	55	13	35400	35900	3001	

¹For maximum bores with other keyway arrangements, consult Wood's.

Poole® Forged Steel Flex-Rigid Coupling



SHADED AREAS HAVE STRAIGHT BODY SLEEVE DESIGN

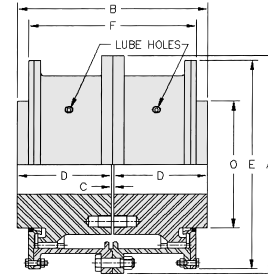
Coupling No.	Maximum Bore 2-Reduced Keyways ¹		Torque Rating In.-Lbs. x 10 ³	Dimensions in Inches											Lube Capacity in Gal.	Net Weight in Lbs.	Ship. Weight in Lbs.		Max. Body Rigid H ¹ Max. Bore	Coupling No.
	Flex.	Rigid		A	B	C	D	D'	E	F	G	H	O	H ¹			Max. Bore			
601	7¼-1¼ x ¾	FOR	.370	16	15¾	¾	7½/32	7½/32	15½	7½	6½/32	12	9¾	¾	470	520	12¼	9	601	
701	9-1½ x ½	FOR	.598	18¼	17¾	¾	8½/16	8½/16	17½	8¾	7½/16	12¼	11¾	¾	730	780	14¾	10½	701	
801	10⅞-1½ x ½	FOR	.890	21	20	¾	9¾/16	9¾/16	20	10	8¾/16	13¾	13	¾	1100	1200	16½	12	801	
901	11⅞-1¾ x ½	FOR	1.271	23	22¼	½	10¾	10¾	22	11½	9	15¾	14¾	¾	1490	1590	18½	13¼	901	
1001	12½-2 x ¾	FOR	1.727	26	24½	½	12	12	24¾	12¼	9¾	17	16¾	½	1950	2050	20¾	15	1001	
1101	14¾-2¼ x ¾	FOR	2.577	28	26¾	½	13¾	13¾	26¾	13¾	10¾	18¾	18¾	¾	2530	2680	22¾	16½	1101	
1201	15¾-2½ x ¾	FOR	3.384	30¼	28¼	½	13¾	13¾	29	14¾	11¾	20¾	20	¾	3150	3300	25	18½	1201	
1301	16-2½ x ¾	FOR	4.298	34¼	29¾	½	14¾	14¾	32¼	14¾	12¾	24	20¾	¾	3820	3970	28	20¾	1301	
1401	18-3 x 1	FOR	5.214	35½	31¾	¾	15½	15½	33¾	15¾	13¾	24	23	1	4600	4750	29	21½	1401	
1501	19¾-3 x 1	FOR	7.058	39	33¾	¾	16½	16½	37¾	16¾	14¾	27¾	25	1¼	5800	5950	32¾	24½	1501	
1601	20½-3½ x 1¼	FOR	8.399	44¼	35½	¾	17¾	17¾	39½	17¾	15½	31	26½	¾	7240	7390	36¾	27½	1601	
1701	21¾-3½ x 1¼	FOR	9.974	44¼	35¾	1	17¾	17¾	42¼	17¾	16¾	31	28	1¾	7650	7800	36¾	27½	1701	
1801	23-3½ x 1¼	FOR	11.464	48½	37	1	18	18	44¼	18¾	16¾/16	34	29¾	4	9500	9700	41	31	1801	
1901	25¾-4 x 1½	FOR	13.186	48½	37	1	18	18	46½	18¾	17¾	34	32¾	2	10100	10300	41	31	1901	
2001	26-4 x 1½	FOR	14.845	53½	43¼	1	21½	21½	48½	21¾	18¾/16	36	33	5	12200	12500	45	34	2001	
2101	27¾-4 x 1½	FOR	16.945	53½	43¼	1	21½	21½	51½	21¾	20¾	36	35	2¼	13050	13350	45	34	2101	
2201	28¾-5 x 1¾	FOR	19.233	56	47	1	23	23	52½	23½	21¾	38	36¾	6	14990	15390	47¾	35½	2201	
2301	30¾-5 x 1¾	FOR	20.679	56	47	1	23	23	54	23½	22	38	38	2¾	16000	16400	47¾	35½	2301	
2401	32¼-5 x 1¾	FOR	23.833	62½	50¾	1	24¼	24¼	56	25¼	22¾	40	40	7¼	18750	19250	52½	39½	2401	
2501	33¾-5 x 1¾	FOR	25.849	62½	50¾	1	24¼	24¼	60¼	25¼	23¾	41¾	41¾	3¾	19625	20125	52½	39½	2501	
2601	34¼-5½ x 2	FOR	30.246	71	54	1	26½	26½	61½	27	24¾	44	43	8	23600	24100	59	44¾	2601	
2701	36¾-6 x 2	FOR	33.046	71	54	1	26½	26½	63½	27	25½	45	45	10	24300	24800	59	44¾	2701	
2801	38¼-6 x 2	FOR	36.945	77	55¼	1	27¾	27¾	65½	27¾	25½	48	47	10¾	28350	28850	65	50	2801	
2901	40¾-6 x 2	FOR	41.136	77	57	1	28	28	67	28½	25½	49	49	11	29725	30225	65	50	2901	
3001	44¾-7 x 2½	FOR	54.390	78	61	1	30	30	73½	30¾	25½	55	55	6½	31100	31600	65	50	3001	

¹For maximum bores with other keyway arrangements, consult Wood's.

NEW TB Wood's/POOLE® Forged Steel Heavy Duty Gear Couplings

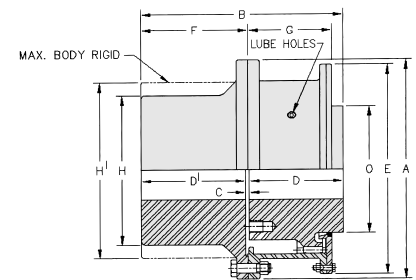
“HD” Series

All Forged
Steel Material



Double Engagement (Full Flex)

Coupling Size	Max Bore (1)	Torque Rating x 10 ⁶	HP/100 RPM	Maximum Speed	Dimensions in Inches								Net Weight in Pounds	Ship Weight in Pounds	Coupling Size
					A	B	C	D	E	F	O				
8	11½	1.271	2017	1800	23¼	18	½	10%	22	21	14%	1600	1700	8	
9	12 ¹³ / ₁₆	1.727	2740	1600	26	19¾	½	12	24¾	23¾	16¼	2100	2200	9	
10	14%	2.577	4089	1400	28	21¾	½	13%	26¾	25¾	18¾	2750	2900	10	
11	15%	3.384	5369	1250	30½	23¾	½	13%	29	27¾	20	3500	3650	11	
12	16	4.298	6820	1100	34¼	25¾	½	14%	32¾	29¾	20%	4200	4350	12	
13	18	5.214	8273	950	35¾	27¾	¾	15½	33¾	31½	23	5000	5150	13	
14	19%	7.058	11199	750	39	29	¾	16½	37¾	34	25	6150	6300	14	
15	20½	8.399	13326	550	40½	31	¾	17%	39½	36	26½	7700	7850	15	
16	21¾	9.974	15825	550	44¼	33	1	17%	42¾	39	28	8400	8550	16	
18	23	11.464	18190	400	48½	33¾	1	18	44¾	39%	29½	10000	10200	18	
20	26	14.845	23554	300	53½	37%	1	21%	48½	44%	33	13400	13700	20	
22	28%	19.233	30516	200	56	42¾	1	23	52½	49	36½	17000	17400	22	
24	32¾	23.833	37815	200	62½	45%	1	24%	56	52¾	40	22000	22500	24	
26	34¾	30.246	47990	200	71	49%	1	26½	61½	56%	43	27500	28000	26	
28	38¾	36.495	58620	200	77	51	1	27%	65½	59	47	32500	33000	28	
30	44%	54.390	86299	200	78	51	1	28	73½	59	55	35400	35900	30	



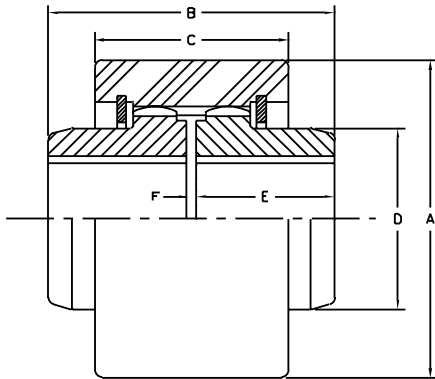
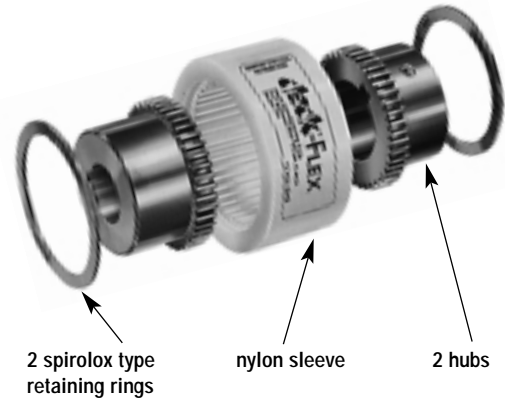
Single Engagement (Flex Rigid)

Coupling Size	Max Bore Flex (1)	Max Bore Rigid (1)	Torque Rating x 10 ⁶	HP/100 RPM	Maximum Speed	Dimensions in Inches										Net Weight in Pounds	Ship Weight in Pounds	Max Body Rigid Hub		Coupling Size
						A	B	C	D	E	F	G	H	O	H1			Max Bore		
8	11½	12½	1.271	2017	1800	23¼	22¼	½	10%	22	11½	9	15%	14%	1490	1590	18½	13¼	8	
9	12 ¹³ / ₁₆	13½	1.727	2740	1600	26	24¼	½	12	24¾	12¼	9%	17	16¼	1950	2050	20½	15	9	
10	14%	15	2.577	4089	1400	28	26¾	½	13%	26¾	13%	10%	18%	18%	2530	2680	22½	16½	10	
11	15%	16½	3.384	5369	1250	30½	28¾	½	13%	29	14%	11%	20%	20	3150	3300	25	18½	11	
12	16	18	4.298	6820	1100	34¼	29¾	½	14%	32¾	14%	12%	24	20%	3820	3970	28	20¾	12	
13	18	19½	5.214	8273	950	35¾	31¾	¾	15½	33¾	15%	13%	24	23	4600	4750	29	21½	13	
14	19%	21	7.058	11199	750	39	33¾	¾	16½	37¾	16%	14½	27½	25	5800	5950	32½	24½	14	
15	20½	23	8.399	13326	550	40½	35½	¾	17%	39½	17%	15½	31	26½	7240	7390	36½	27½	15	
16	21¾	24½	9.974	15825	550	44¼	35%	1	17%	42¾	17%	16½	31	28	7650	7800	36½	27½	16	
18	23	26¾	11.464	18190	400	48½	37	1	18	44¾	18½	16 ¹⁵ / ₁₆	34	29½	9500	9700	41	31	18	
20	26	28¾	14.845	23554	300	53½	43¼	1	21%	48½	21%	18 ¹³ / ₁₆	36	33	12200	12500	45	34	20	
22	28%	30½	19.233	30516	200	56	47	1	23	52½	23½	21%	38	36½	14990	15390	47½	35½	22	
24	32¾	33	23.833	37815	200	62½	50%	1	24%	56	25%	22%	40	40	18750	19250	52½	39½	24	
26	34¾	36½	30.246	47990	200	71	54	1	26½	61½	27	24%	44	43	23600	24100	59	44¾	26	
28	38¾	40	36.495	58620	200	77	55¼	1	27%	65½	27%	25½	48	47	28350	28850	65	50	28	
30	44%	45	54.390	86299	200	78	61	1	28	73½	30%	25½	55	55	31100	31600	65	50	30	

(1) Maximum bore with two reduced keyways.

Torque & HP Ratings

RPM	Deck-Flex		Deck-Flex Mite Steel		Deck-Flex Mite Stainless Steel	
	Torque (in lbs)	HP	Torque (in lbs)	HP	Torque (in lbs)	HP
100	1420	2.2	360	0.6	240	0.4
1150	1110	20.3	282	5.1	188	3.4
1750	900	25.0	270	7.5	180	5.0
3500	630	35.3	254	13.8	169	9.2
5000	530	42.0	243	19.4	162	12.8



Dimensions

	A	B	C	D	E	F
Deck-Flex	3.75	3.38	1.88	2.38	1.62	0.12
Deck-Flex Mite	2.88	2.38	1.31	1.75	1.12	0.12

Ordering Example

(Couplings are sold by component)

Deck-Flex Mite		
Item (Qty)	Part Number	Description
Sleeve (1)	GDFMS	Deck-Flex Mite Sleeve
Hubs (2)	GDFM34	Deck-Flex Mite Hub for 3/4" Bore
Assembly Kit (1)	GDFMAK	Retaining Rings for Assembly

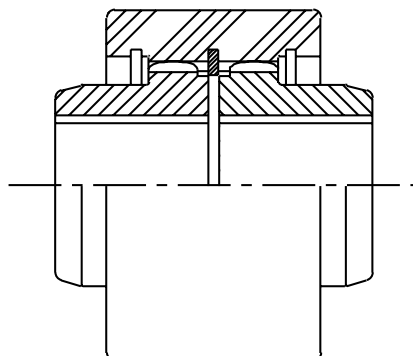
Deck-Flex		
Item (Qty)	Part Number	Description
Sleeve (1)	GDFS	Deck-Flex Sleeve
Hubs (2)	GDF34	Deck-Flex Hub for 3/4" Bore
Assembly Kit (1)	GDFAK	Retaining Rings for Assembly

Stock Bores

Bore	Deck-Flex Mite	Deck-Flex
5/16	Rough Bore	
3/8	...	Rough Bore
1/2	1/8 x 1/16	1/8 x 1/16
5/8	3/16 x 3/32	3/16 x 3/32
3/4	3/16 x 3/32	3/16 x 3/32
7/8	3/16 x 3/32	3/16 x 3/32
1	1/4 x 1/8	1/4 x 1/8
1-1/8	1/4 x 1/8	1/4 x 1/8
1-1/4		1/4 x 1/8
1-5/16		5/16 x 5/32
1-3/8		5/16 x 5/32
1-7/16		3/8 x 3/16
1-1/2		3/8 x 3/16
1-5/8		3/8 x 3/16

- No Lubrication
- Operation up to 5000 rpm
- Light Weight
- Can be altered for blind assembly
- Nylon couplings operate up to 150°F
- Misalignment – 5° for Deck Flex
3° for Deck Flex Mite

Note: Some acids and alkalis can be harmful to the nylon sleeve.



AGMA Class 1 Bore Tolerance +.000/+.001

Blind assembly couplings can be produced by ordering a 3 groove sleeve (GDFS3 or GDFMS3) and installing a center retaining ring. With the addition of this center retaining ring, the outer rings are not needed and the installation involves no more than sliding the hubs into the sleeves.

RIGID COUPLINGS



Ribbed Type Compression Couplings are recommended for emergency and regular service on heavily loaded shafts.

These couplings are bored true to shaft size, and the halves are separated during boring operation to allow for clamping when halves are drawn together. Bolt heads and nuts are protected by flanges. End flanges are faced square with bore, and outer diameters are turned.

To facilitate the use of V-belt drives, sufficient space may be left between shaft ends when mounting the coupling to permit easy replacement of belts.

SECTION F7



**RIBBED
COMPRESSION
NO. 257**

Product No.	Shaft Size	Max. RPM	Approx. Diam.	Length	BOLTS			Weight Lbs.
					No.	Size	Wrench ⁽¹⁾ Torque ft.-lb.	
2571316	1-3/16	4630	4-1/8	5-3/8	6	3/8	19	11
257114	1-1/4	4630	4-1/8	5-3/8	6	3/8	19	11
2571716	1-7/16	4070	4-11/16	6-1/8	6	1/2	45	18
257112	1-1/2	4070	4-11/16	6-1/8	6	1/2	45	18
25711116	1-11/16	3820	5	6-3/4	6	1/2	45	20
257134	1-3/4	3820	5	6-3/4	6	1/2	45	20
25711516	1-15/16	3250	5-7/8	6	6	5/8	93	34
2572	2	3250	5-7/8	6	6	5/8	93	33
2572316	2-3/16	3050	6-1/4	8-3/4	6	5/8	93	38
257214	2-1/4	3050	6-1/4	8-3/4	6	5/8	93	38
2572716	2-7/16	2680	7-1/8	9-5/8	6	3/4	150	57
257212	2-1/2	2680	7-1/8	9-5/8	6	3/4	150	54
25721116	2-11/16	2610	7-5/16	10-5/8	6	3/4	150	62
25721516	2-15/16	2210	8-5/8	11-5/8	8	3/4	150	95
2573	3	2210	8-5/8	11-5/8	8	3/4	150	95
257316	3-3/16	2100	9-1/16	12-3/4	8	3/4	150	126
2573716	3-7/16	1920	9-15/16	13-5/8	8	7/8	202	157
257312	3-1/2	1920	9-15/16	13-5/8	8	7/8	202	157
25731516	3-15/16	1830	10-7/16	14-5/8	8	7/8	202	171
2574716	4-7/16	1600	11-7/8	16-1/2	8	1	300	273
25741516	4-15/16	1390	13-11/16	18-1/8	8	1-1/8	474	395

NOTE: Capacity of Coupling exceeds capacity of shaft based on 6000 PSI Shaft Stress.

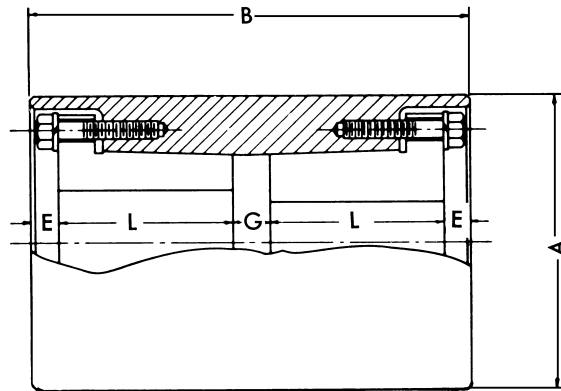
(1) Do not lubricate CAP Screws. Other shaft sizes available on a MTU Basis.

Coupling may require balancing to reduce vibration when operating within these speeds.

This coupling is designed to provide a simple method of rigidly connecting two pieces of shafting. The standard Sure-Grip tapered bushing is used, one on each shaft, to securely clamp the two shafts together. The precision tapered fit lines up the two shafts. No press or shrink fits are necessary.



SURE-GRIP RIGID NO. 44



Product No.	Max. RPM	Maximum Bore		Bushing †	DIMENSIONS					Weight Including Bushings
		Light ⁽¹⁾ Loads	Heavy ⁽²⁾ Loads		A	B	E	G	L	
44SD	6200	1-13/16	1-7/16	SD	4	4-5/8	3/8	1/4	1-13/16	11
44SF	4500	2-3/8	1-7/8	SF	5-1/2	5-1/4	1/2	1/4	2	22
44E	3600	2-15/16	2-1/4	E	6-7/8	6-3/4	5/8	1/4	2-5/8	54
44J	3000	3-13/16	3	J	8-1/4	11	3/4	1/2	4-1/2	122
44M	2450	4-3/4	3-11/16	M*	10	16	1	1/2	6-3/4	270

† Dimensions for Sure-Grip bushings are given on page A1—4.

* Bushing M is not stocked with drilled holes for the above type mounting and will be made-to-order.

(1) Max Shaft Stress < 8500 psi.

(2) Max Shaft Stress < 4000 psi.

$$\text{Axial Thrust Capacity} = \frac{\text{Bushing Torque Capacity}}{\text{Radius of Shaft}}$$



Powering Your Success

TB Wood's

Canada

T.B. Wood's Canada Ltd.
750 Douro Street
Stratford, Ontario, Canada N5A 6V6
Telephone: 519-271-5380
FAX: 519-271-3094

Germany

Berges electronic GmbH
A TB Wood's Company
IndustriestrBe13
D-51709 Marienheide, Germany
Telephone: 49-2264-17-0
FAX: 49-2264-17126

India

TB Wood's (India) Private Limited
No. 27A, 2nd Cross
Electronic City, Hosur Road
Bangalore, 561 229 India
Telephone: 91-80-8520-123
FAX: 91-80-8520-124

Italy

Berges electronic s.r.l
A TB Wood's Company
Via Zona Industriale, 11
I-39025 Naturno, Italy
Telephone: 39-0473-67-1911
FAX: 39-0473-67-1909

Mexico

TB Wood's (México) S.A. de C.V.
Oriente 237 No. 171
Colonia Agrícola Oriental
08500 Mexico, D.F. Mexico
Telephone: 52-55-5558-1620
FAX: 52-55-5756-0674

Other TB Wood's Locations

Chattanooga, Tennessee
Edmonton, Canada
Montreal, Canada
Mt. Pleasant, Michigan
San Marcos, Texas
Reno, Nevada

TB Wood's Incorporated Headquarters

440 North Fifth Avenue
Chambersburg, Pennsylvania 17201-1778
Telephone: 888-TBWOODS or 717-264-7161
FAX: 717-264-6420
Website: www.tbwoods.com
Email: info@tbwoods.com