KOP-FLEX®

ELASTOMERIC™

Couplings

A Proven and Unique Concept in a Non-Lubricated Flexible Coupling

Standard Hubs are Available From Stock, in Aluminum, Steel and Stainless Steel.

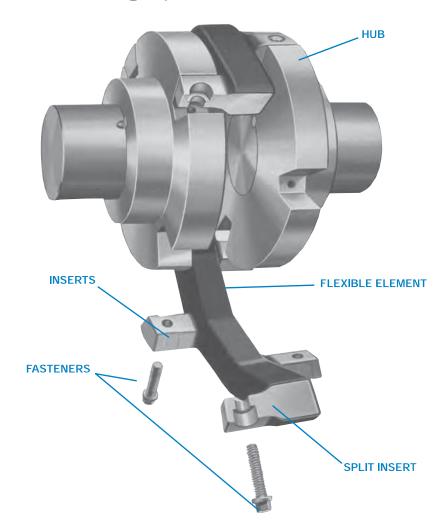


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^{*} Taper-Lock is believed to be the trademark and/or trade name of Reliance Electric Company, and is not owned or controlled by Emerson Power Transmission.



LONG LIFE The ELASTOMERIC™ Coupling provides long service life — for the coupling, the bearings and the seals. The design concept contributes to **better** low-cost power transmission with the added benefits of absorbing shock loads and smoothing-out damaging vibrations.

SIMPLE INSTALLATION Just mount the hubs, align the shafts and install the flexible element — in a few short minutes. Assembly is completely visible — with no hidden or hard to reach components. The flexible element can be replaced without disturbing foundation bolts or shaft alignment.

WRAP-AROUND DESIGN The split insert permits easy installation of the flexible element in a simple assembly sequence — with no blind assembly required and shafts may be aligned prior to its installation. With the "split" in the insert and not in the rubber, the joint in the ELASTOMERIC™ Coupling is firmly contained, eliminating distortions and unbalance due to centrifugal force.

RUBBER IN COMPRESSION This is the most efficient way to transfer torque through an elastomeric element; much more efficient than rubber in shear! Rubber in compression, as used in the ELASTOMERIC™ coupling, can be loaded from 5 to 10 times as high as rubber in tension or shear. And the rubber-to-metal bond is permanent — with a compressive load maintained at all times.

PLUS PRECOMPRESSION

is **precompression** which assures that the unloaded segments of the flexible element remain in compression, protecting both the rubber itself and the rubber-to-metal bond. Application of torque in the ELASTOMERIC™ Coupling increases the compressive stress on the loaded legs while the alternate legs experience a reduction in compressive stress — but not to the point of complete relaxation.

DYNAMICALLY STABLE Distortion of the element due to centrifugal force is contained by the inserts imbedded and bonded in the element and fastened to the hub flanges. Torsional wind-up effects are avoided by driving through compression. These factors greatly reduce axial movement which can lead to damaged bearings, seals, and shaftmounted equipment such as gears or armatures.

CUSHIONS SHOCK LOADS Resilience in the flexible element cushions the shock of impact loading, providing smooth and quiet power transmission. This protects both the driving and driven equipment, providing longer machine life.

DAMPENS TORSIONAL VIBRATIONS

The flexible element absorbs the unavoidable torsional vibrations typically found in internal combustion engines and other reciprocating equipment. The ELASTOMERIC $^{\text{TM}}$ Coupling is available for both flywheel mounting and for assembly on stub shafts.

CORROSION RESISTANT The use of corrosion resistant, non-staining aluminum alloys and cadmium plated steel capscrews eliminate the problems normally associated with coupling usage in normal industrial atmospheres — corroded bores and fasteners, contamination from flaking and poor appearance.

SHAFT MISALIGNMENT The flexing characteristics of the elastomeric member permit generous shaft misalignments — parallel, angular and axial — under continuous operating conditions.

It is this misalignment capability that compensates for foundation settling, thermal growth, bearing wear, mechanical strains and even installation alignment error.

. Since maximum coupling life will be obtained with minimum shaft misalignment, it is recommended that shafts be carefully and accurately aligned at time of installation.



A Proven and Unique Concept in a Non-Lubricated Flexible Coupling

ALLOYED ALUMINUM High-strength aluminum alloys provide strength and ruggedness while also offering light weight — about one-third the weight of competitive couplings. This means easier handling, longer bearing life, quicker accelerations, and even lower shipping costs. Its high ductility and impact resistance eliminate the brittle fracture characteristics of grey iron and semi-steel. Its resistance to corrosion and its nonsparking characteristics are well known.

STEEL AND STAINLESS STEEL HUBS

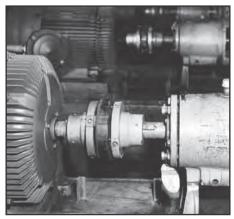
are an available option for the Standard ELASTOMERIC™ Coupling Type EE. Steel hubs provide added strength when the coupling is used in the most rugged applications typical of steel mill service. Type E stainless steel hubs also offer greater resistance to chemical attack from caustics and similar chemicals encountered with the Pulp & Paper processes. Consult KOP-FLEX for price and delivery on Type E Steel Hubs.

NEMA MOTORS The ELASTOMERIC™ Coupling, when mounted with either TAPER-LOCK* or Q-D® bushings, may be used with any standard T-frame AC motor (including high starting-torque types) on which it can be mounted and will transmit the rated motor torque continuously on applications involving 1.0 service factors. When straight finish bores are used,

the larger maximum bore capacity may permit mounting on bigger, more powerful motors, providing coupling load ratings are not exceeded.

WITH THESE BENEFITS:

- Non-Lubricated
- Variable Shaft Separations
- Non-Sparking
- Indoor or Outdoor Operation
- -50°F to +175°F Temperature Range
- Horizontal or Vertical MountingDirty or Sanitary Environments
- Stocked by Power Transmission
 Distributors

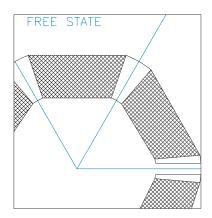


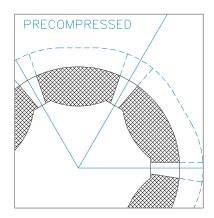
DROP-OUT SPACERS primarily engineered for pump applications where easy and fast pump maintenance is a necessity or for any equipment needing a separation between shaft ends. 117 different shaft separation combinations are available using standard components. The configuration permits fast pump maintenance by easily dropping out the lightweight center coupling section. Shaft mounted hubs and coupling alignment are not disturbed.

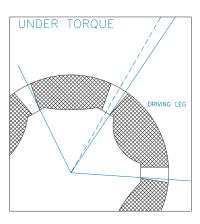
AVS PUMP SPACERS The single-spacer coupling is designed to meet the American Voluntary Standard for chemical pump service, providing 3 1/2" shaft separation. The spacer hub is also designed to drop out through the shaft gap *prior* to dislodging the pump body from the volute, greatly simplifying pump maintenance and providing an easier "swing" as the pump is removed.



THEORY OF OPERATION







- A. The flexible element in its free state is a polygon.
- 3. At assembly, each insert is drawn into its recess in the flange, precompressing each leg, with the element assuming a round shape.
- When torque is applied, the driving hub rotates slightly with respect to the driven hub (the torsional load produces a coupling "wind-up"). The driving leg undergoes an increased compression. The trailing leg experiences a reduced compression but not to the point of going into tension. The flexible element is restrained from radial growth under centrifugal force by the inserts which are bonded within the flexible element and are firmly fastened to each hub.

^{*} Taper-Lock is believed to be the trademark and/or trade name of Reliance Electric Company, and is not owned or controlled by Emerson Power Transmission.



Service Factors

Values listed are intended only as a general guide, and are typical of usual service requirements. For systems which frequently utilize the peak torque capability of the power source, verify that the magnitude of this peak torque does not exceed the 1.0 Service Factor Rating of the coupling selected. Applications which involve extreme repetitive shock or high-energy load absorption characteristics should be referred — with full particulars — to KOP-FLEX.

Values contained in the table are to be applied to smooth power sources such as electric motors and steam turbines. For drives involving internal combustion engines of four or five cylinders, add 1.0 to the values listed; for six or more cylinders, add 0.5 to the values listed. For systems utilizing AC or DC Mill Motors as the prime mover, refer to Note (1).

CAUTION: All people moving plus overhead crane applications must be referred to engineering.

A I ti	Comical
Application	Service
	Factor
AGITATORS	
Pure Liquids	1.0
Liquids & Solids	1.25
Liquids — Variable Density	
BLOWERS	
Centrifugal	1.0
Lobe	1.5
Vane	
DDIOUETTE MACHINES	1.25
BRIQUETTE MACHINES	2.0
CAR PULLERS — Intermittent Duty	1.5
COMPRESSORS	
Centrifugal	
Centriaxial	
Lobe	
Reciprocating — Multi-Cylinder	2.0
CONVEYORS — LIGHT DUTY	
UNIFORMLY FED	
Apron, Bucket, Chain, Flight, Screw	1 25
Assembly, Belt	
Oven	
CONVEYORS — HEAVY DUTY	
NOT UNIFORMLY FED	
Apron, Bucket, Chain, Flight, Oven	
Assembly, Belt	1.25
Reciprocating, Shaker	2.5
CRANES AND HOISTS (NOTE 1 and 2)	
Main hoists, Reversing	2.5
Skip Hoists, Trolley & Bridge Drives	2.0
Slope	
CRUSHERS	
Ore, Stone	3.0
DREDGES	
	1 75
Cable Reels	
Conveyors	
Cutter Head Jig Drives	
Maneuvering Winches	
Pumps	
Screen Drives	
Stackers	1.75
Utility Winches	1.5
ELEVATORS (NOTE 2)	
Bucket	1.75
Centrifugal & Gravity Discharge	
Escalators	
Freight	2.5
Centrifugal	1.0
Cooling Towers	1.5
Forced Draft	1.5
Induced Draft without Damper	
Control	2.0
FEEDERS	
Apron, Belt, Disc, Screw	1.25
Reciprocating	
. too.p. ooderig	

Application	Typical
Application	Service Factor
GENERATORS —	
(Not Welding)	1.0
LAUNDRY WASHERS — Reversing	
LAUNDRY TUMBLERS	
LINE SHAFT	
LUMBER INDUSTRY	
Barkers — Drum Type Edger Feed	
Live Rolls	
Log Haul — Incline Log Haul — Well type	2.0
Log Haul — Well type	2.0
Off Bearing RollsPlaner Feed Chains	
Planer Floor Chains	
Planer Tilting Hoist	
Slab ConveyorSorting Table	1.5
Trimmer Feed	1.75
MARINE PROPULSION	
Main Drives	2.0
MACHINE TOOLS Bending Roll	2.0
Plate Planer	1.5
Punch Press — Gear Driven	
Tapping Machines Other Machine Tools	2.5
Main Drives	1.5
Auxiliary Drives	1.25
METAL MILLS	2.0
Draw Bench — Carriage Draw Bench — Main Drive	2.0
Forming Machines	
Slitters	1.5
Table Conveyors Non-Reversing	2 25
Reversing	2.5
Wire Drawing & Flattening Machine	2.0
Wire Winding Machine METAL ROLLING MILLS (NOTE 1)	1.75
Blooming Mills	*
Coilers, hot mill	2.0
Coilers, cold mill	
Cold Mills	
Door Openers	
Draw Benches	
Edger DrivesFeed Rolls, Reversing Mills	3.5
Furnace Pushers	
Hot Mills	
Ingot Cars	
Manipulators	
Merchant Mills	3.0
Piercers	
Pusher RamsReel Drives	
Reel Drums	2.0
Reelers	
Rod and Bar Mills Roughing Mill Delivery Table	
Runout Tables	
Reversing	
Non-Reversing	
Screwdown Drives	
Skelp Mills	
Slitters	
Slabbing MillsSoaking Pit Cover Drives	
Straighteners	
Tables, transfer & runout	2.0
Thrust Block	
Traction Drive	
Unscramblers	
Wire Drawing	
MILLS, ROTARY TYPE Ball	2 25
Dryers & Coolers	
Hammer	

Application	Typical Service
Application	Factor
Pebble & Rod	
Pug Tumbling Barrels	
MIXERS	2.0
Concrete Mixers	
Drum Type OIL INDUSTRY	1.5
Chillers	1.25
Paraffin Filter Press	1.75
PAPER MILLS Barker Auxiliaries, Hydraulic	2.0
Barker, Mechanical	2.0
Barking Drum Spur Gear Only	2.25
Beater & Pulper Bleacher	
Calenders	
Chippers	
Coaters Converting Machines,	1.0
except Cutters, Platers	1.5
Couch Roll	
Cutters, Platers Cylinders	
Disc Refiners	1.75
Dryers	1.75
Felt StretcherFelt Whipper	
Jordans	1.75
Line Shaft	
Log Haul Pulp Grinder	
Press Roll	2.0
ReelStock Chests	
Suction Roll	
Washers & Thickeners	1.5
Winders PRINTING PRESSES	1.5
PULLERS — Barge Haul	2.0
PUMPS	
Centrifugal Boiler Feed	
Reciprocating	1.3
Single Acting	
1 or 2 Cylinders 3 or more Cylinders	
Double Acting	2.0
Rotary, Gear, Lobe, Vane	1.5
RUBBER INDUSTRY Mixer — Banbury	2.5
Rubber Calendar	2.0
Rubber Mill (2 or more)	2.25
Sheeter Tire Building Machines	
Tire & Tube Press Openers	1.0
Tubers & Strainers	2.0
SCREENS Air Washing	1.0
Grizzly Rotary — Stone or Gravel	
Rotary — Stone or Gravel Traveling Water Intake	1.5
VibratingVibrating	2.5
SEWAGE DISPOSAL EQUIPMENT	
Bar Screens	
Collectors, Circuline or Straightline	
Dewatering Screens	1.25
Grit Collectors	
Slow or Rapid Mixers	
Sludge Collectors	1.25
ThickenersVacuum Filters	
STEERING GEAR	
STOKERS	
WINCH	
* Refer to KOP-FLEX	
NOTES	

- Maximum Torque at the coupling must not exceed Rated Torque of the coupling.
 Check local and industrial safety codes.

Selection Procedure

1. Coupling Type:

Select the appropriate ELASTOMERIC™ coupling type for your application.

2. Coupling Size:

Step 1: Determine the proper service factor from page 72.

Step 2: Calculate the required HP/100 RPM, using the HP rating of the drive and the coupling speed (RPM) as shown below:

HP x SERVICE FACTOR x 100 = HP/100 RPM

Step 3: Using Table 1 select the coupling size having a rating sufficient to handle the required HP/100 RPM at the appropriate service factor.

Step 4: Verify that the actual coupling speed (RPM) is equal to or less than the maximum allowable speed rating of the coupling.

Step 5: Verify that the maximum bore of the coupling selected is equal to or <u>larger</u> than either of the equipment shafts.

Clearance fit bores are acceptable for applications using service factors of 2 or less. For service factors higher than 2, interference fits are recommended.

Step 6: Check the overall dimensions to ensure coupling will not interfere with the coupling guard, piping, or the equipment housings and that it will fit the required shaft separation.

Note: For reciprocating engines and reciprocating compressor service, refer all application data to KOP-FLEX for selection.

TABLE 1 — SELECTION DATA — ELASTOMERIC™ COUPLINGS

	Coupling	Torque F	Rating		Static	Maximum	Maximum	
Coupling Size	Rating (1) HP/100 RPM	Continuous Duty (lbin.)	Peak Load (lbin.) (2)	Max. RPM (3)	Torsional Stiffness (lbin./rad.)	Offset Misalignment Capacity (inches)	Axial Misalignment Capacity (inches)	
20	.334	217	630	4100	3180	.029	±.013	
30	.664	418	1245	4100	7460	.032	±.017	
40	1.15	725	2100	4100	11800	.034	±.019	
50	2.00	1260	3630	4100	21600	.036	±.023	
60	3.05	1920	5700	4100	42800	.038	±.026	
70	7.20	4540	13350	3600	97000	.042	±.030	
80	13.0	8190	24270	2800	186000	.056	±.036	
90	22.6	14200	42300	2000	284000	.079	±.046	
100	42.0	26500	78600	1800	557000	.086	±.052	

- (1) If actual maximum torque loads are known, do not use Service Factors but rather select coupling size under "Torque Rating" in Table I. These figures are those which the coupling is capable of transmitting under continuous operation and normal alignment so as to be consistent with reasonable industrial service life.
- (2) For infrequently applied loads not to exceed once per hour.
- (3) For higher speeds, refer to KOP-FLEX.

PART NUMBER EXPLANATION **Complete Rough Bore Coupling**

Coupling Size (20 to 100) EE=Standard Coupling ES = Single Spacer Coupling SS = Double Spacer Coupling 20 EE DOxx= Drop-Out Spacer Coupling (xx= AA, AB, AC, BB, BC or CC)

How to Order

Coupling Parts

Description

EHUB = Standard Hub (Aluminum)

EHUBXBORE = Standard Hub Finished Bored EHUBTLXBUSH = Standard Hub Bored for TAPER-LOCK*

EHUBQDXBUSH = Standard Hub Bored for Q-D®

SHUB = Spacer Hub

LHUB = Long Hub

RHUB = Drop-Out Hub

FS = Fastener Set

ELEMENT = Element with Fasteners

AHUB = Spacer Type A Hub with Fasteners

BHUB = Spacer Type B Hub with Fasteners

CHUB = Spacer Type C Hub with Fasteners

ESTEEL HUB = Steel Hub

ESSTEEL HUB = Stainless Steel Hub

Note: Standard bores are supplied clearance fit with one setscrew over keyway.

example: 20 EHUBX3/4

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KOP-FLEX

Standard Coupling Type EE with Finished Straight Bores

Standard Couplings Type EE are generally used on close-connected equipment and may be mounted for either wide or close shaft separations, at the user's option. This permits ready installation on existing shaft separations and eliminates moving the connected equipment to suit the coupling.

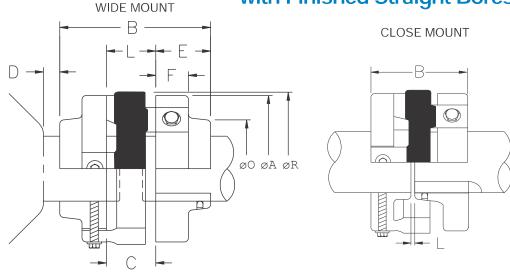


TABLE 1

		WIDE MOUNT											CLOSE MOUNT				
C	oupling Size	Bore with Standard Keyway		Standard St Keyway Ro		Standard Stock Hu Keyway Rough Se	Hub Sep.	Shaft Separation C ØA	В	В D	D E	E F	F ØO	øO ØR	Coupling Size	Hub & Shaft Sepa-	В
		Max.	Min.	Bore	L	Min.	Max.								O.E.O	ration L	
	20	1 1/8	1/2	3/8	1	1/8	1	3 11/16	3 1/8	1/8	1 1/16	5/8	1 7/8	4	20	1/8	2 1/4
	30	1 1/2	1/2	3/8	1 1/2	1/8	1 1/2	4 3/8	4 1/8	1/8	1 5/16	5/8	2 7/16	4 5/8	30	1/8	2 3/4
	40	1 7/8	1/2	3/8	1 5/8	1/8	1 5/8	5 3/8	5 1/8	1/8	1 3/4	1	2 3/4	5 11/16	40	1/8	3 5/8
	*50	2 1/8	3/4	5/8	2 1/8	1/8	2 1/8	6 1/16	6 1/8	1/8	2	1	3 1/8	6 3/4	50	1/8	4 1/8
	*60	2 7/8	1 1/8	15/16	2 1/8	1/8	2 1/8	7	6 1/8	1/8	2	1	4 7/32	7 5/8	60	1/8	4 1/8
	70	3	1 1/4	1 1/16	2 3/8	1/8	2 3/8	8	6 5/8	1/8	2 1/8	1	4 7/16	8 11/16	70	1/8	4 3/8
	*80	3 3/4	1 1/2	1 1/4	3	1/8	3	9 7/16	8 3/8	1/8	2 11/16	1 1/4	5 5/16	10 1/2	80	1/8	5 1/2
	90	4 3/4	1 3/4	1 1/2	4 1/8	1/8	4 1/8	12 1/8	11 1/8	1/8	3 1/2	1 1/2	6 5/8	13 1/16	90	1/8	7 1/8
	100	5 3/8	2 1/4	2	4 1/8	1/8	4 1/8	13 7/8	12 1/8	1/8	4	2	7 3/8	15 1/8	100	1/8	8 1/8

NOTES: Finished Bored E Hubs can be ordered by specific Bore size.

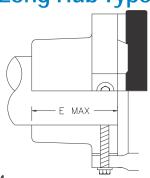
Complete coupling consists of 2 E Hubs and 1 Replaceable Element.

^{* 50, 60} and 80 EE hubs are also stocked in steel. Consult KOP-FLEX.

Coupling	Complete Co No Bor	E Hul No Bo	-	Element W/ Fastener		
Size	Part No.	Wt.	Part No.	Wt.	Part No.	Wt.
20	20 EE	2	20 EHUB	1	20 ELEMENT	1
30	30 EE	3	30 EHUB	1	30 ELEMENT	1
40	40 EE	6	40 EHUB	2	40 ELEMENT	1
50	50 EE	9	50 EHUB	3	50 ELEMENT	2
60	60 EE	12	60 EHUB	3	60 ELEMENT	3
70	70 EE	17	70 EHUB	4	70 ELEMENT	5
80	80 EE	80 EE 31		8	80 ELEMENT	9
90	90 EE 59		90 EHUB	15	90 ELEMENT	16
100	100 EE	96	100 EHUB	29	100 ELEMENT	18

Standard Hubs are Available From Stock, in Aluminum, Steel and Stainless Steel.

Long Hub Type L



LONG HUB—TYPE L Available for Wide Mount only

ELASTOMERIC L Hub Rough Bored

Coupling Size	Part No.	Емах	Bore Stan Keywa	Stock Rough Bore	
			Min.	Max.	Боге
60	60 LHUB	3 9/16	1 3/8	3	1 1/4
70	70 LHUB	4	1 3/8	3 1/8	1 1/4
80	80 LHUB	4 11/16	1 3/8	4 1/8	1 1/4
90	90 LHUB	4 15/16	1 9/16	4 3/4	1 7/16
100	100 LHUB	5 7/16	2	5 3/8	1 7/8

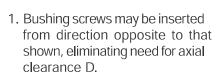


Standard Coupling for TAPER-LOCK* Bushings

- 1. See opposite table for dimensions not listed.
- 2. Space is required to remove bushing using shortened hex key cut to minimum usable length for sizes 30 to 80. Sizes 90 and 100 use open end wrench.
- 3. Maximum bore is the maximum obtained when the bushing is supplied with a reduced shallow keyway. Flat keys are then supplied with the bushing.
- 4. Intermediate hub separations (L) are obtained by reversing one hub only from the Wide Mount arrangement, giving intermediate maximum hub and shaft separations.

E Hubs Bored for TAPER-LOCK* Bushing

Size	Part No.
30	30 EHUBTLX1108
40	40 EHUBTLX1215
50	50 EHUBTLX1615
60	60 EHUBTLX2012
70	70 EHUBTLX2517
80	80 EHUBTLX3020
90	90 EHUBTLX3535
100	100 EHUBTLX3535

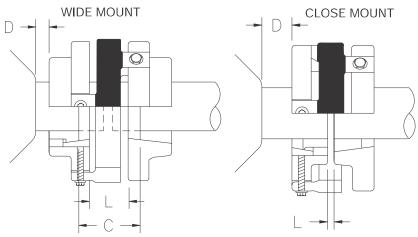


E Hubs Bored for Q-D® Bushing

Size	Part No.
30	30 EHUBQDXJA
40	40 EHUBQDXJA
50	50 EHUBQDXSH
60	60 EHUBQDXSDS
70	70 EHUBQDXSK
80	80 EHUBQDXSF
90	90 EHUBQDXE
100	100 EHUBQDXF

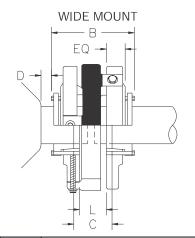
NET WT, LBS.—STANDARD COUPLINGS

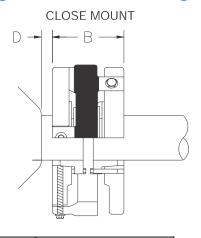
Coupling Size	With Solid Hubs	With Max. Bore and Standard Keyway	With TAPER-LOCK* Bushing (Max. Bore)	With Q-D [®] Bushing (Max. Bore)
20	1.7	1.6	-	-
30	2.8	2.3	2.7	3.0
40	6.0	5.0	6.2	6.1
50	8.8	7.3	8.4	9.4
60	12.2	9.2	11.8	13.0
70	17.0	13.6	17.1	18.8
80	30.5	23.1	30.8	32.6
90	59.4	45.4	62.0	67.3
100	96.0	76.0	102.0	106



			WID		CLOSE MC	CLOSE MOUNT				
Coupling Size	TAPER-LOCK* Bushing		Hub Sep.			D	Coupling Size	Hub and Shaft	D	
	Number	Bore Min.(in.)	Bore Max.(in.)	L	Min.	Max.			Separation L	
30	1108	1/2	1 1/8	1 1/2	1/8	2 3/8	3/4	30	1/8	1/8
40	1215	1/2	1 1/8	1 5/8	1/8	3 1/8	1 1/16	40	1/8	1/8
50	1615	1/2	1 5/8	2 1/8	1/8	3 1/8	1 1/16	50	1/8	1/8
60	2012	1/2	2	2 1/8	1/8	3 5/8	1 3/8	60	1/8	1/8
70	2517	1/2	2 1/2	2 3/8	1/8	3 1/8	1 5/8	70	1/8	1/8
										i I
80	3020	15/16	3	3	1/8	4 3/8	2 1/16	80	1/8	1/8
90	3535	1 3/16	3 1/2	4 1/8	1/8	4 1/8	1 3/4	90	1/8	1/8
100	3535	1 3/16	3 1/2	4 1/8	1/8	4 1/8	2	100	1/8	1/8

Standard Coupling for Q-D® Bushings





				WID	E MOU	INT				CLOSE MOUNT				
Coupling Size	Q-I	D® Bu	shing	В	Hub Sep.	Shaft Sep. C		D	EQ	Coupling Size	Hub Sep.	Shaft Sep.	В	D
	Size	Bore Min. (in.)	Bore Max (in.)		Ľ	Min.	Max.			Size	Ľ	C		
30	JA	1/2	1 1/4	4 1/4	1 1/2	1/8	1 7/8	1 1/8	3/4	30	1 1/4	3/8	2 3/4	1/8
40	JA	1/2	1 1/4	5 1/8	1 5/8	1/8	2 3/4		1 1/8	40	1 3/8	1/2	3 5/8	1/8
50	SH	1/2	1 5/8	6 3/16	2 1/8	1/8	3 1/8	1 9/16	1 1/4	50	1 5/8	1/2	4 1/8	1/8
60	SDS	1/2	1 15/16	6 1/16	2 1/8	1/8	3	1 9/16	1 3/16	60	1 3/4	5/8	4 1/8	1/8
70	SK	1/2	2 1/2	6 9/16	2 3/8	1/8	2 1/8	2 1/4	1 1/8	70	2 1/8	3/4	4 3/8	1/8
80	SF		2 15/16		3	1/8	3 1/4		1 7/16		2 5/8	1 1/8	5 1/2	1/8
90 100	E F	7/8 1	3 7/16 3 15/16	10 1/2 12 3/4		1/8 1/8		3 1/16 4 3/16		90 100	3 5/8	1 5/8	7 1/8	1/8 -

^{*} Taper-Lock is believed to be the trademark and/or trade name of Reliance Electric Company, and is not owned or controlled by Emerson Power Transmission.

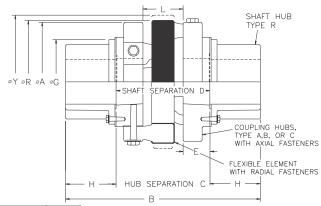
KOP-FLEX

Drop-Out Spacer Coupling Type DO

Wherever spacer type couplings are used for motor driven back-pull-out pumps, AVS Pumps, Process Pumps and any application for a Spacer Type coupling. Over 117 shaft separation combinations are available using standard components.

The ELASTOMERIC™ Drop-out coupling provides for easy removal of the pump's back-pull-out section keeping routine pump maintenance and down-time to a minimum.

Upon removal of a few axial fasteners, the flexible coupling center section is easily inserted, or removed to gain pump access.



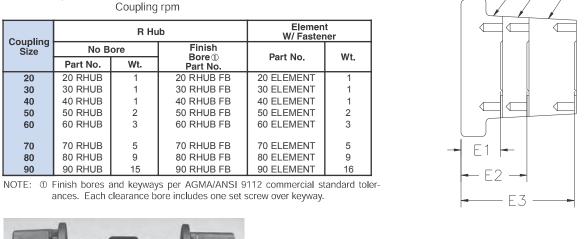
Size	Service (1) RPM Offset						in.)		Rough Bore		
	HP/100 RPM (2)	Torque LbIn.			Ø A	ø G	Н	L	ØR	ØΥ	(in.)
20	.334	217	4100	.029	3 11/16	3 1/8	1 3/8	1	4	4 1/2	5/8
30	.664	418	4100	.032	4 3/8	3 3/8	1 5/8	1 1/2	4 5/8	5 1/2	5/8
40	1.15	725	4100	.034	5 3/8	3 11/16	1 3/4	1 5/8	5 11/16	6 5/8	5/8
50	2.00	1260	4100	.036	6 1/16	4 7/16	2 3/8	2 1/8	6 3/4	7 3/8	5/8
60	3.05	1920	4100	.038	7	4 15/16	2 5/8	2 1/8	7 5/8	8 3/8	1
70	7.20	4540	3600	.042	8	5 11/16	3	2 3/8	8 11/16	9 3/4	1
80	13.0	8190	2800	.056	9 7/16	7	3 7/8	3	10 1/2	11 3/4	1 1/4
90	22.6	14200	2000	.079	12 1/8	8 1/4	4 1/4	4 1/8	13 1/16	14 3/8	1 1/2

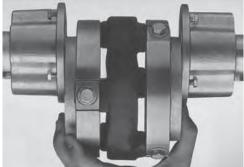
(1) Ratings are for motor driven centrifugal pump and blower service (service factor of 1.0). For other applications, refer to pages 72 & 73 for appropriate service factors and coupling size selection data. Couplings will transmit peak loads of 3 times these values if infrequently applied (not to exceed once per hour).

(2) HP/100rpm = HP to be transmitted X 100

Coupling		R Hu	ıb	Element W/ Fastener			
Size	No B	ore	Finish	Dout No.	30/4		
	Part No.	Wt.	Bore ① Part No.	Part No.	Wt.		
20	20 RHUB	1	20 RHUB FB	20 ELEMENT	1		
30	30 RHUB	1	30 RHUB FB	30 ELEMENT	1		
40	40 RHUB	1	40 RHUB FB	40 ELEMENT	1		
50	50 RHUB	2	50 RHUB FB	50 ELEMENT	2		
60	60 RHUB	3	60 RHUB FB	60 ELEMENT	3		
70	70 RHUB	5	70 RHUB FB	70 ELEMENT	5		
80	80 RHUB 9		80 RHUB FB	80 ELEMENT	9		
90	90 RHUB	15	90 RHUB FB	90 ELEMENT	16		

ances. Each clearance bore includes one set screw over keyway.





The ELASTOMERIC™ Drop Out Spacer Coupling center section is easily installed as a preassembled unit, or as lightweight component parts. For pump or seal maintenance, the "drop out" center section is easily removed for fast pump access.

Coupling Hubs Type A, B and C

A HUB -SHORT

BHUB-MEDIUM

CHUB-LONG

	E DIN	MENSION	(in.)	AXIAL FASTENERS			
Size	A Hub	B Hub	C Hub	No. Per	Size		
	E1	E2	E3	Hub	Size		
20	_	1 1/4	2 3/4	4	1/4-20		
30	_	1	2 1/2	4	1/4-20		
40	1	1 11/16	3 15/16	4	1/4-20		
50	1	1 7/16	3 11/16	4	1/4-20		
60	1	1 7/16	3 11/16	4	5/16-18		
70	1	1 5/16	3 9/16	4	3/8-16		
80	1 7/32	2 1/8	4 5/8	6	1/2-13		
90	_	1 9/16	4 1/16	6	5/8-11		



Type DO Dimensional and Assembly Data

				Shaft	Hub Type R		Sh	aft Separat	ion		Quantiti	ies Per As	sembly	
Coupling	No Bore Part	Weight (lbs.)	Min.	Max. Bore	Std.	Dim.	Min.	Std.	Max.	C	oupling H	ub	Shaft	Flex
5.2 5	Decription	(1.50.)	Bore	With Std. Kwy (a)	Kwy Size	В	(2)	(3) Dim. C	(4)	Hub A	Hub B	Hub C	Hub	Elem.
20	20 DOBB 20 DOBC 20 DOCC	2.0 2.3 2.5	3/4	1 3/8	5/16 x 5/32	6 1/4 7 3/4 9 1/4	3 7/16 4 15/16 6 7/16	3 1/2 5 6 1/2	3 3/4 5 1/4 6 3/4		2 1	1 2	2 2 2	1 1 1
30	30 DOBB 30 DOBC 30 DOCC	2.8 3.2 3.4	3/4	1 5/8	3/8 x 3/16	6 3/4 8 1/4 9 3/4	3 5/16 4 13/16 6 5/16	3 1/2 5 6 1/2	3 3/4 5 1/4 6 3/4		2 1	1 2	2 2 2	1 1 1
40	40 DOAA 40 DOAB 40 DOBB 40 DOAC 40 DOBC 40 DOCC	5.4 5.6 5.8 6.3 6.5 7.1	3/4	1 3/4	3/8 x 3/16	7 1/8 7 13/16 8 1/2 10 1/16 10 3/4 13	3 1/2 4 3/16 4 7/8 6 7/16 7 1/8 9 3/8	3 5/8 4 5/16 5 6 9/16 7 1/4 9 1/2	3 3/4 4 1/2 5 1/4 6 7/8 7 1/2 10	2 1 1	1 2 1	1 1 2	2 2 2 2 2 2	1 1 1 1 1
50	50 DOAA 50 DOAB 50 DOBB 50 DOAC 50 DOBC 50 DOCC	8.2 8.4 8.6 9.2 9.4 10.2	3/4	2 3/8	5/8 x 5/16	8 7/8 9 5/16 9 3/4 11 9/16 12 14 1/4	3 7/8 4 9/16 4 3/4 6 9/16 7 9 1/4	4 1/8 4 5/16 5 6 13/16 7 1/4 9 1/2	4 3/8 4 13/16 5 1/4 7 1/16 7 1/2 10	2 1 1	1 2 1	1 1 2	2 2 2 2 2 2	1 1 1 1 1
60	60 DOAA 60 DOAB 60 DOBB 60 DOAC 60 DOBC 60 DOCC	10.0 10.2 10.4 11.2 11.4 12.3	1 1/8	2 5/8	5/8 x 5/16	9 3/8 9 13/16 10 1/4 12 1/16 12 1/2 14 3/4	3 7/8 4 5/16 4 3/4 6 9/16 7 9 1/4	4 1/8 4 9/16 5 6 13/16 7 1/4 9 1/2	4 3/8 4 13/16 5 1/4 7 1/16 7 1/2 10	2 1 1	1 2	1 1 2	2 2 2 2 2 2 2	1 1 1 1 1
70	70 DOAA 70 DOAB 70 DOBB 70 DOAC 70 DOBC 70 DOCC	15.2 15.4 15.6 16.6 16.8 18.0	1 1/8	3	3/4 x 3/8	10 3/8 10 11/16 11 12 15/16 13 1/4 15 1/2	4 5/16 4 5/8 4 15/16 6 7/8 7 3/16 9 7/16	4 3/8 4 11/16 5 6 15/16 7 1/4 9 1/2	4 5/8 415/16 5 1/4 7 3/16 7 1/2 10	2 1 1	1 2 1	1 1 2	2 2 2 2 2 2	1 1 1 1 1
80	80 DOAA 80 DOAB 80 DOBB 80 DOAC 80 DOBC 80 DOCC	26.3 26.9 27.6 28.9 29.6 31.7	1 3/8	3 3/4	7/8 x 7/16	13 3/16 14 3/32 15 16 19/32 17 1/2 20	5 1/4 6 5/32 7 1/16 8 21/32 9 9/16 12 1/16	5 7/16 6 21/32 7 1/4 8 27/32 9 3/4 12 1/4	5 3/4 6 13/16 7 1/2 9 3/32 10 12 1/2	2 1 1	1 2 1	1 1 2	2 2 2 2 2 2	1 1 1 1 1
90	90 DOBB 90 DOBC 90 DOCC	51.0 53.8 56.6	1 5/8	4 1/4	1 x 1/2	16 1/4 18 3/4 21 1/4	6 5/8 9 1/8 11 5/8	7 1/4 9 3/4 12 1/4	7 1/2 10 12 1/2		1	1 2	2 2 2	1 1 1

Two shaft hubs (type R) will always be supplied unless ordered "LESS SHAFT HUBS".

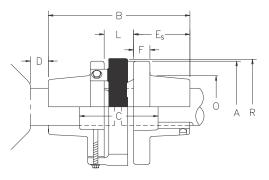
- (1) All finish bores will be for clearance fit with set screw over the keyway unless ordered otherwise.
- (2) Minimum shaft separation is obtained by allowing the shafts to protrude slightly beyond the faces of the type R shaft hubs. Hub separation C and dimension L must be maintained as listed.
- (3) Standard shaft separations are obtained when type R shaft hubs are mounted flush with shaft ends. In this case the shaft separation is the same as the hub separation, dimension C.
- (4) Maximum shaft separation is obtained by allowing type R shaft hubs to slightly overhang their shafts. Maximum hub separations tabulated, are based on an overhang of 1/4" or less per hub. Excessive shaft hub overhang increases hub and key stresses.
- (5) Interference fits up to .0005"/in. of shaft diameter are permissible providing maximum bore with interference fit is 1/4" less than maximum clearance fit bore indicated by note (a).
- (6) Weight shown is total coupling weight based on maximum bore.

KOP-FLEX®

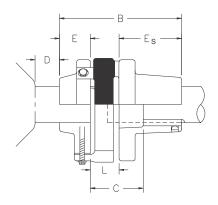
Double Spacer Coupling Type SS Single Spacer Coupling Type ES

Spacer Couplings are commonly used where a larger-than-normal shaft separation is desired. This permits servicing of impellers, packing glands, seals, bearing, etc. without disturbing the connected equipment. The two types of spacer couplings—Double Spacer and Single Spacer—vary only in the number of spacer hubs used and offer the user a wide variety of possible shaft separations.

TYPE SS DOUBLE SPACER COUPLING



TYPE ES SINGLE SPACER COUPLING



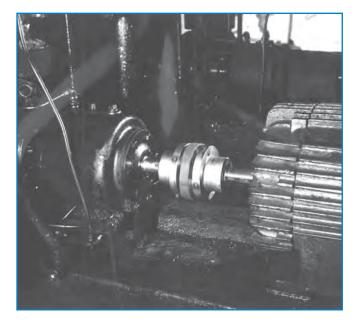
DOUBLE SPACER COUPLING With Finished Straight Bores

Coupling Size	Star	with dard way	Stock Rough Bore	Hub Sep.		aft ration C	А	В	D	Es	F	0	R
	Min.	Max.	S Hub	L	Min.	Max.				Ŭ			
20	3/4	1 1/4	19/32	1	1/8	6	3 11/16	7 7/8	1/8	3 7/16	5/8	2 5/8	4
30	7/8	1 5/8	3/4	1 1/2	1/8	5 1/2	4 3/8	8 3/8	1/8	3 7/16	5/8	2 13/16	4 5/8
40	7/8	2	3/4	1 5/8	1/8	5 3/8	5 3/8	8 1/2	1/8	3 7/16	1	3 3/16	5 11/16
50	7/8	2 1/4	3/4	2 1/8	1/8	5	6 1/16	9	1/8	3 7/16	1	3 3/8	6 3/4
60	1 1/4	3	1 1/8	2 1/8	1/8	5 1/4	7	9 1/4	1/8	3 9/16	1	4 5/16	7 5/8
70	1 5/8	3 1/8	1 1/2	2 3/8	1/8	6 1/8	8	10 3/8	1/8	4	1	4 9/16	8 11/16
80	1 7/8	4 1/8	1 3/4	3	1/8	7	9 7/16	12 3/8	1/8	4 11/16	1 1/4	5 3/4	10 1/2
90	2 5/8	4 3/4	2 1/2	4 1/8	1/8	7	12 1/8	14	1/8	4 15/16	1 1/2	6 3/4	13 1/16
100	2 7/8	5 3/8	2 3/4	4 1/8	1/8	7	13 7/8	15	1/8	5 7/16	2	7 1/2	15 1/8
					_								

SINGLE SPACER COUPLING With Finished Straight Bores

******	01100		gc D	0.00		
Coupling Size	Hub Sep.	Sen	haft aration C	В	Е	D
	L L	Min.	Max.			
20	1	1/8	3 1/2	5 1/2	1 1/16	1/8
30	1 1/2	1/8	3 1/2	6 1/4	1 5/16	1/8
40	1 5/8	1/8	3 1/2	6 13/16	1 3/4	1/8
50	2 1/8	1/8	3 9/16	7 9/16	2	1/8
60	2 1/8	1/8	3 11/16	7 11/16	2	1/8
70	2 3/8	1/8	4 1/4	8 1/2	2 1/8	1/8
80	3	1/8	5		2 11/16	1/8
90	4 1/8	1/8	5 9/16	12 9/16	3 1/2	1/8
100	4 1/8	1/8	5 9/16	13 9/16	4	1/8

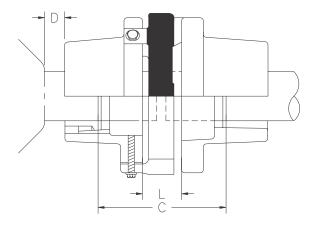
Coupling	S Hub No Boi		E Hul No Bo	-	Element W/ Fa	stener
Size	Part No.	Wt. (lbs.)	Part No.	Wt. (lbs.)	Part No.	Wt. (lbs.)
20	20 SHUB	1	20 EHUB	1	20 ELEMENT	1
30	30 SHUB	1	30 EHUB	1	30 ELEMENT	1
40	40 SHUB	2	40 EHUB	2	40 ELEMENT	1
50	50 SHUB	3	50 EHUB	3	50 ELEMENT	2
60	60 SHUB	4	60 EHUB	3	60 ELEMENT	3
70	70 SHUB	6	70 EHUB	4	70 ELEMENT	5
80	80 SHUB	11	80 EHUB	8	80 ELEMENT	9
90	90 SHUB	18	90 EHUB	15	90 ELEMENT	16
100	100 SHUB	34	100 EHUB	29	100 ELEMENT	18

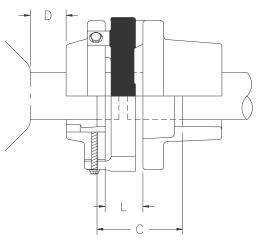


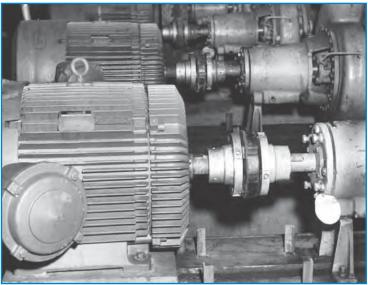


Spacer Coupling for TAPER-LOCK* Bushing

- 1. See table on page 80 for dimensions not listed.
- 2. Maximum bore is the maximum obtained when the bushing is supplied with a shallow keyway. Flat keys are then supplied with the bushing.







3. Space is required to remove bushing using shortened hex key cut to maximum usable length for sizes 30 to 80. Sizes 90 and 100 use open end wrench.

Double Spacer Coupling for TAPER-LOCK* Bushings

Coupling Size		TAPER-LOCK* Bushing			S	naft ep. C	D
Size	Number	Bore Min. (in.)	Bore Max. (in.)	L	Min. (in.)	Max. (in.)	
30	1108	1/2	1 1/8	1 1/2	1/8	6 5/8	3/4
40	1215	1/2	1 1/4	1 5/8	1/8	6 1/2	1 1/16
50	1615	1/2	1 5/8	2 1/8	1/8	6	1 1/1
60	2012	1/2	2	2 1/8	1/8	6 1/2	1 3/8
70	2517	1/2	2 1/2	2 3/8	1/8	6 7/8	1 5/8
80	3020	15/16	3	3	1/8	8 3/8	2 1/16
90	3535	1 3/16	3 1/2	4 1/8	1/8	7	1 3/4
100	3535	1 3/16	3 1/2	4 1/8	1/8	7	2

Single Spacer Coupling for TAPER-LOCK* Bushings

Coupling Size	S	naft ep. C	D
	Min. (in.)	Max. (in.)	
30	1/8	4 1/2	3/4
40	1/8	4 13/16	1 1/16
50	1/8	4 9/16	1 1/16
60	1/8	5 1/16	1 3/8
70	1/8	5	1 5/8
80	1/8	6 3/8	2 1/16
90	1/8	5 9/16	1 3/4
100	1/8	5 9/16	2

Hubs Bored for TAPER-LOCK* Bushings

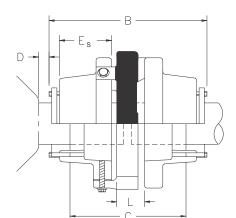
Hubs Bo	ored for TAPER-	FOCK Busning	js –	
Coupling Size	S Hub Part No.	E Hub Part No.	" I W/ Fastene	
			Part No.	Wt. (lbs.)
30	30 SHUBTLX1108	30 EHUBTLX1108	30 ELEMENT	1
40	40 SHUBTLX1215	40 EHUBTLX1215	40 ELEMENT	1
50	50 SHUBTLX1615	50 EHUBTLX1615	50 ELEMENT	2
60	60 SHUBTLX2012	60 EHUBTLX2012	60 ELEMENT	3
70	70 SHUBTLX2517	70 EHUBTLX2517	70 ELEMENT	5
80	80 SHUBTLX3020	80 EHUBTLX3020	80 ELEMENT	9
90	90 SHUBTLX3535	90 EHUBTLX3535	90 ELEMENT	16
100	100 SHUBTLX3535	100 EHUBTLX3535	100 ELEMENT	18

^{*} Taper-Lock is believed to be the trademark and/or trade name of Reliance Electric Company, and is not owned or controlled by Emerson Power Transmission.



Spacer Coupling For Q-D® Bushing

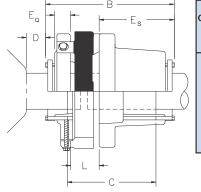
1. See table of Finished Straight Bores on page 74 for dimensions not listed.



Double Spacer Coupling for Q-D® Bushings

Coupling Size	G	-D® Bushir	ng	Hub Sep.	Se	aft ep. C	В	D	Es
Size	Number	Bore Min. (in.)	Bore Max. (in.)	L	Min. (in.)	Max. (in.)			
30	JA	1/2	1 1/4	1 1/2	1/8	7 1/4	9 5/8	1 1/8	3 7/16
40	JA	1/2	1 1/4	1 5/8	1/8	7 3/8	9 3/4	1 1/8	3 7/16
50	SH	1/2	1 5/8	2 1/8	1/8	7 1/2	10 9/16	1 9/16	3 7/16
60	SDS	1/2	1 15/16	2 1/8	1/8	7 3/4	10 13/16	1 9/16	3 9/16
70	SK	1/2	2 1/2	2 3/8	1/8	7 7/8	12 5/16	2 1/4	4
80	SF	1/2	2 15/16	3	1/8	9 3/4	14 9/16	2 3/8	4 11/16
90	E	7/8	3 7/16	4 1/8	1/8	10 1/2	16 7/8	3 1/16	4 15/16
100	F	1	3 15/16	4 1/8	1/8	9 7/8	18 3/8	4 3/16	5 7/16

Single Spacer Coupling for Q-D® Bushings



Coupling Size		haft Sep. C	В	D	Eq		
	Min (in.)	Max. (in.)					
30	1/8	4 9/16	6 15/16	1 1/8	3/4		
40	1/8	5 1/16	7 7/16	1 1/8	1 1/8		
50	1/8	5 5/16	8 3/8	1 9/16	1 1/4		
60	1/8	5 3/8	8 7/16	1 9/16	1 3/16		
70	1/8	5	9 7/16	2 1/4	1 1/8		
80 90 100	1/8 1/8 1/8	6 1/2 7 5/16 7 1/16	11 5/16 13 11/16 15 9/16	3 1/16			

Hubs Bored for Q-D® Bushings

Coupling		E Hub	Element W/ Fasteners					
Size	Part No.	Part No.		Wt (lbs)				
30	30 SHUBQDXJA	30 EHUBQDXJA	30 ELEMENT	1				
40	40 SHUBQDXJA	40 EHUBQDXJA	40 ELEMENT	1				
50	50 SHUBQDXSH	50 EHUBQDXSH	50 ELEMENT	2				
60	60 SHUBQDXSDS	60 EHUBQDXSDS	60 ELEMENT	3				
70	70 SHUBQDXSK	70 EHUBQDXSK	70 ELEMENT	5				
80 90	80 SHUBQDXSF 90 SHUBQDXE	80 EHUBQDXSF 90 EHUBQDXE	80 ELEMENT 90 ELEMENT	9				
100	100 SHUBQDXF	100 EHUBQDXF	100 ELEMENT	18				

NET WEIGHT, LBS.—SPACER COUPLINGS

	Coupling Size	20	30	40	50	60	70	80	90	100
DOUBLE SPACER	With Solid Hubs	4.0	4.6	7.4	10.1	13.9	22.5	41.1	73.2	116
	With Max. Bore and Standard Keyway	3.7	4.1	6.5	8.7	11.1	19.0	34.0	58.8	96
	With TAPER-LOCK* Bushing (Max. Bore)	1	4.5	7.0	9.8	13.5	22.5	41.4	76.4	113
	With Q-D [®] Bushing (Max. Bore)	-	4.6	7.4	10.3	14.1	23.1	41.3	77.1	122
~	With Solid Hubs	2.8	3.7	6.7	9.5	13.0	19.8	35.8	66.3	106
SPACER	With Max. Bore and Standard Keyway	2.6	3.2	5.7	8.0	10.1	16.3	28.5	52.1	86
SINGLE	With TAPER-LOCK* Bushing (Max. Bore)	-	3.6	6.2	9.1	12.7	19.8	36.1	69.2	107
S	With Q-D [®] Bushing (Max. Bore)	-	3.8	6.8	9.9	13.6	21.0	37.0	72.2	114

^{*} Taper-Lock is believed to be the trademark and/or trade name of Reliance Electric Company, and is not owned or controlled by Emerson Power Transmission.

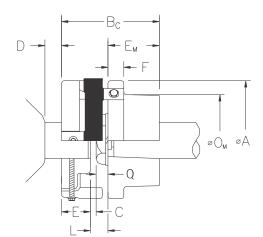


Mill Motor Coupling Type EM

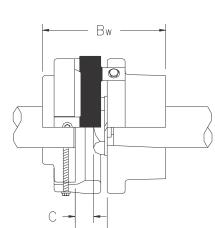
WIDE MOUNT

Mill motor Couplings are for use on AC or DC Mill-Type Motors. Couplings sizes are pre-selected in the table below on the basis of MAXIMUM MOTOR TORQUE. Coupling selections should be made directly from the table. DO NOT USE SERVICE FACTORS.

NOTE: Part Numbers for the ELASTOMERIC™ Mill Motor Couplings have not been established due to the wide variety of mill motor frames.



CLOSE MOUNT



					Bore		Close	Mount	Wi	de Mo	unt					Di	mensio	n (in.)						
Coupling Size	AIS	E Fran	ne Num	ber	Stan Key		Hub Sep.	Shaft Sep.	Hub Sep.		t Sep. C		D.	Bw D		E	Ем	١	F	Ом	a	U	v	v
	AC Series	400 Series	600 Series	800 Series	Min. (in.)	Max. (in.)	L L	C C	L L	Min. (in.)	Max. (in.)	A	A Bc	DW			m	08		ŭ				
60	AC1,AC2	2	2	802A	1 3/8	2 7/8	1 1/8	3/16	2 1/8	1/8	1 3/16	7	6 1/8	7 1/8	1/8	2	3	1	4 5/16	15/16	1 3/4	2 3/4	1 3/16	
70	AC4	402 403	602 603	802B,C	1 3/8 1 3/8		1 1/4 1 1/4	5/16 1/4	2 3/8 2 3/8	1/8 1/8	1 7/16 1 3/8	8 8	6 3/8 6 7/8	7 1/2 8	1/8 1/8	2 1/8 2 1/8	3 3 1/2	1	4 9/16 4 9/16	15/16 1	1 3/4 2	2 3/4 3 1/4	1 3/16 1 1/4	
	AC8				1 3/8	3	1 1/4	1/8	2 3/8	1/8	1 1/4	8	7 3/8	8 1/2	1/8	2 1/8	4	1	4 9/16	1 1/8	2 1/2	3 3/4	1 3/8	
80	AC12	404	604	803,804			1 9/16 1 9/16	9/16 7/16	3 3	1/8 1/8	2 1 7/8	9 7/16 9 7/16	7 3/4 8 1/4	9 3/16 9 3/16		2 11/16 2 11/16		1 1/4 1 1/4	5 3/4 5 3/4	1 1 1/8	2 2 1/2	3 1/4 3 3/4	1 1/4 1 3/8	
90	AC18	406	606	806	1 9/16 1 9/16	4 3/4 4 3/4	2 1/8 2 1/8	1 3/4	4 1/8 4 1/8	1/8 1/8	3 2 3/4	12 1/8 12 1/8	9 5/8 10 1/8	11 5/8 12 1/8		3 1/2 3 1/2	4 4 1/2	1 1/2 1 1/2	6 3/4 6 3/4	1 1/8 1 3/8	2 1/2 3 1/4	3 3/4 4 1/4	1 3/8 1 5/8	
100	AC25	408 410	608 610	808	2 2 2	5 3/8 5 3/8 5 3/8	2 1/8 2 1/8 2 1/8	7/8 3/4 5/8	4 1/8 4 1/8 4 1/8	1/8 1/8 1/8	2 7/8 2 3/4 2 5/8	13 7/8 13 7/8 13 7/8	10 5/8 10 5/8 11 1/8	12 5/8		4 4 4	4 1/2 4 1/2 5	2 2 2	7 1/2 7 1/2 7 1/2	1 1/4 1 3/8 1 1/2		4 1/4 4 1/4 4 1/4	1 1/2 1 5/8 1 3/4	

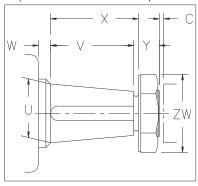
^{*} DO NOT USE SERVICE FACTORS WHEN SELECTING COUPLINGS FROM THIS TABLE

Net Weight, Lbs.

	Mill Motor	Net Weight, Lbs.						
Coupling Size	Hub Bored For AISE Motor Frame	With Solid Hubs	With Max. Bore Standard Key					
60	2,802A AC1,AC2	13.3	11.1					
70	602,802B 802C,AC4	18.6	16.2					
70	603	19.4	16.6					
70	AC8	20.2	16.6					
80	604,803 804	31.4	26.5					
80	AC12	32.8	27.1					
90	606,806	56.1	47.1					
90	AC18	57.7	47.1					
100	608,808	83.5	70.3					
100	610	83.5	69.9					
100	AC25	85.6	71.3					

TAPERED BORES For Tapered Shafts, with or without locknut, determine applicable AISE Mill Motor frame or give data below:

- 1. U Major diameter.
- 2. V Length of tapered portion of shaft.
- 3. X Length to face of lockwasher.
- 4. Y Length of threaded projection.
- 5. ZW Locknut diameter across corners.
- 6. W Clearance to bearing housing.
- 7. Taper (inches on diameter per foot of length).
- 8. Keyway width and depth.
- 9. Whether keyway is parallel to shaft or to taper.
- 10. C Shaft separation if machines are in place.





Coupling Comments

ELASTOMERIC™ Coupling for Runout Table Application

We have some exciting field test results run by a major steel mill customer. As you may know our ELASTOMERIC™ couplings are used throughout industry primarily in pump applications as well as runout (also known as entry/exit/transfer table) applications in hot strip steel mills.

NATIONAL STEEL* Corporation in Granite City ran a grueling test of Elastomer type couplings on their hot strip mill finishing stand runout tables, between the motor and rolls, with our ELASTOMERIC™, FALK* TORUS*, DODGE* PARA-FLEX*, ATRA-FLEX* and REXNORD* OMEGA* over a four month period. Our size number 60 ELASTOMERIC™ coupling with steel hubs (available as an option, standard hubs are Aluminum) outlasted all of the others. Our ELASTOMERIC™ couplings have been selected as the coupling of choice at GRANITE CITY* STEEL, on runout table application, after the side by side 'shootout' with our competitors. Price was not the reason we were selected - a case in point - performance outweighing the price!

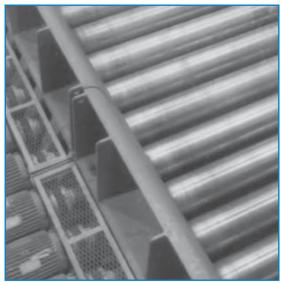
Just to give you a scope of this success, in a typical hot strip mill there are somewhere between 100 to 300 table rolls - most are motorized - and each driven roll needs a coupling between the motor and the roll. Besides GRANITE CITY STEEL, we have many other applications with ELASTOMERIC™ coupling on runout table such as LTV* STEEL (Cleveland), WHEELING-PITTSBURGH* STEEL, ARMCO* STEEL, WEIRTON STEEL CORPORATION*, ALGOMA STEEL*, NORTH STAR BLUESCOPE*, and the list goes on.

ELASTOMERIC™ couplings have several features :

- Never needs lubrication
- Easy to install wrap around rubber element al lows replacement without removing the connected equipment
- Drives through compression avoids the pitfalls of other rubber/urethane couplings in shear

Besides the ELASTOMERIC™ coupling the other





ELASTOMERIC™ Coupling for Runout table (shown under the guard) at a major hot strip steel mill

popular choice for the runout table application is the FAST'S® gear coupling from KOP-FLEX® brand couplings with its unique metal seal design.

^{*} The following are believed to be the trademarks and/or trade names of their respective owners, and are not owned or controlled by Emerson Power Transmission. Algoma Steel: Essar Steel Algoma, Inc.; Armco: AK Steel Corporation; Atra-Flex: ATR Sales, Inc.; BlueScope: BlueScope Steel Limited; Dodge and Para-Flex: Reliance Electric Company; Falk, Omega, Rexnord and Torus: Rexnord Industries LLC; Granite City and National Steel: National Steel Corporation; LTV: LTV Steel Company, Inc.; Weirton Steel Corporation: Wheeling-Pittsburgh: Severstal Wheeling, Inc.