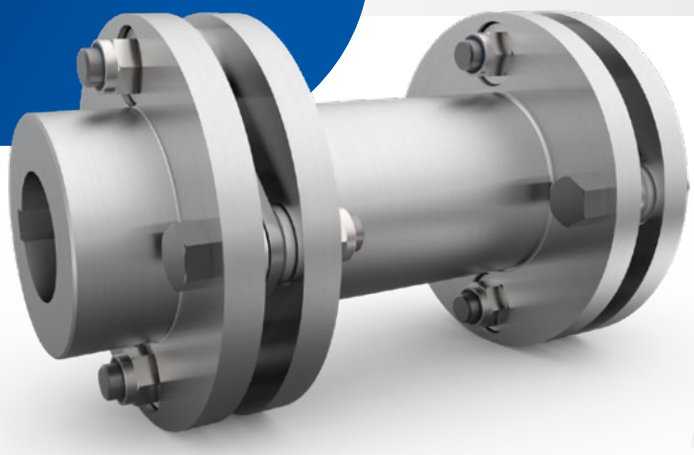
RegalRexnord™

Flexible Disc Couplings

TB WOOD'S FORM-FLEX™



TB WOOD'S™

PRODUCT CATALOG

Table of Contents

Introduction

Features	TB Wood's™ Form-Flex™				
	A-Series		G-Series		
	AR, AP AX, AY, AA	A5, A6, A7	GP	G5	GR
Standard Bore Fit:	Clearance		Interference		
Set Screws:	Standard		Optional		
Puller Holes:	Optional				
Standard Flex Disc:	300 Series Stainless Steel ①				
Balance Class:	AGMA 7	N/A	AGMA 8	N/A	AGMA 8
Dynamic Balance:	Optional	Per TBW Commercial Standard	Optional	Per TBW Commercial Standard	Optional

① Stainless Steel is standard. Alloy steel is optional.

Form-Flex™ Disc Coupling Advantages

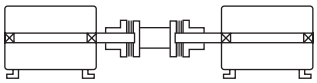
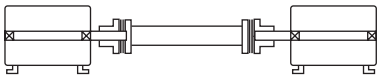
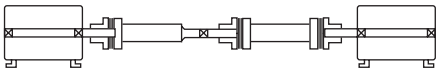
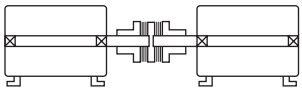
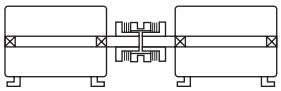
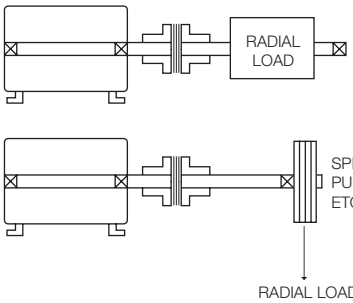
- Over 40 years experience in flexible disc couplings
- All metal construction
- No lubrication
- No moving parts
- Long life
- High torsional stiffness
- Precise positioning - zero backlash

Applications

Flexible disc couplings can be used in a wide variety of applications from general industrial equipment to high speed precision machines. They are one of the most versatile coupling designs and can be customized to meet the demands of almost every application. Some of the applications in which flexible disc couplings can be used are:

- General Purpose
- Centrifugal & Screw Compressors
- Fans & Blowers
- Food Processing
- Machine Tools
- Printing Presses
- Engine & Electric Motor Driven Applications
- Power Generation

Coupling Application Types Table

Coupling Type	Typical Applications		Series
Spacer Couplings Double Flex	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.		**AP, GP**
Floating Shaft Coupling	Floating shaft couplings are spacer style couplings which are designed to connect widely separated shafts. The coupling spacers are fabricated. Steel is available as an option. 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.	 	**A5, G5**
Close Couple Double Flex	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.	 	**AA, AX, AY**
Single Flex	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. 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.		**AR, GR**

1) Select correct Service Factor (S.F.) from the chart below.

2) Calculate HP/100 RPM or Design Torque (lb-in).

$$\text{HP/100 RPM} = \frac{\text{HP x S.F. x 100}}{\text{coupling RPM}}$$

OR

$$\text{Design Torque (lb-in)} = \frac{\text{63025 x HP x S.F.}}{\text{coupling RPM}}$$

OR

$$\text{Design Torque} = \text{Torque (lb-in) x S.F.}$$

Calculate kW/100 RPM or Design Torque (Nm)

$$\text{kW/100RPM} = \frac{\text{kW x S.F.x 100}}{\text{coupling RPM}}$$

$$\text{Design Torque (Nm)} = \frac{\text{9550 x kW x S.F.}}{\text{coupling RPM}}$$

$$\text{Design Torque} = \text{Torque (Nm) x S.F.}$$

3) Compare this to the HP/100 RPM (kW/100 RPM) column or the Rated Torque column.

4) Check other limiting factors such as max bores, minimum DBSE, max speed and overall dimensions.

Unit Conversions: HP x .746 = kW or kW x 1.34 = HP
Nm x 8.851 = lb-in or lb-in x .113 = Nm

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	
DRIVER	ADD
TURBINE	0
AC MOTORS	
With Soft Start	0
NEMA A or B, IEC N	0
NEMA C or D, IEC H	1
DC MOTORS	
Shunt Type	0
Series or Compound	1
I/C ENGINES	
8 or More Cylinders	1
4-6 Cylinders	1.5
1-3 Cylinders	2

Driven Equipment	S.F.
AGITATORS	
Pure Liquids	1.00
Liquids and Solids	1.25
Liquids-Variable Density	1.25
BLOWERS	
Centrifugal	1.00
Lobe	1.50
Vane	1.25
BRIQUETTER MACHINE	1.00
CAN FILLING MACHINE	1.00
COMPRESSORS	
Centrifugal	1.25
Lobe	1.50
Reciprocating	C/F
CONVEYORS-Uniform Load	
Apron	1.25
Assembly	1.00
Belt	1.00
Bucket	1.25
Chain	1.25

Driven Equipment	S.F.
CONVEYORS-Uniform load (Cont.)	
Flight	1.25
Oven	1.50
Screw	1.25
CONVEYORS-Non-Uniform Load	
Apron	1.50
Assembly	1.25
Belt	1.25
Bucket	1.50
Chain	1.50
Flight	1.50
Oven	1.50
Reciprocating	2.50
Screw	1.50
Shaker	2.50
CRANES AND HOISTS	
Main Cranes	2.00
Reversing	2.00
Skip Hoists	1.75
Trolley Drive	1.75
Bridge Drive	1.75
Slope	1.50
DREDGES	
Cable Reels	1.75
Conveyors	1.50
Maneuvering Winches	1.75
Pumps	1.75
Screen Drives	1.75
Stracers	1.75
Utility Winches	1.50
ELEVATORS	
Bucket	1.75
Centrifugal Discharge	1.50
Freight	2.00
Gravity Discharge	1.50

Driven Equipment	S.F.
FANS	
Centrifugal	1.00
Cooling Tower	2.00
FEEDERS	
Apron	1.25
Belt	1.25
Disc	1.25
Reciprocating	2.50
Screw	1.25
FOOD INDUSTRY	
Cereal Cookers	1.25
Dough Mixers	1.75
Meat Grinders	1.75
Slicers	1.75
LUMBER INDUSTRY	
Barkers-Drum Type	2.00
Edger Feeders	2.00
Live Rolls	2.00
Log Haul	2.00
Off Bearing Rolls	2.00
Planers	1.75
Slab Conveyors	1.50
Sorting Table	1.50
Trimmer Feed	1.75
MACHINE TOOLS	
Bending Roll	2.00
Plate Planer	1.50
Spindle Drives	1.50
Table/Axis Drives	1.25
Tapping Machines	2.50
PAPER MILLS	
Beater & Pulper	1.75
Bleacher	1.00
Calendars	2.00
Converting Machines	1.50

Driven Equipment	S.F.
PAPER MILLS-(Cont.)	
Couch	1.75
Cutters, Platers	2.00
Cylinders	1.75
Dryers	1.75
Felt Stretchers	1.25
Felt Whipper	2.00
Presses	2.00
Reel	1.50
Stock Chests	1.50
Suction Roll	1.75
Washers and Thickeners	1.50
Winders	1.50
PRINTING PRESSES	1.50
PUMPS	
Centrifugal	1.00
Reciprocating	
Double Acting	2.00
Single Acting 1-2 Cylinders	2.25
Single Acting 3+ Cylinders	1.75
Rotary-Gear, Lobe, Vane	1.50
TEXTILE INDUSTRY	
Batchers	1.25
Calenders	1.75
Card Machines	1.50
Cloth Finishing Machines	1.50
Dry Cans	1.75
Dryers	1.50
Dyeing Machinery	1.25
Looms	1.50
Mangles	1.25
Nappers	1.25
Soapers	1.25
Spinners	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.

Consult Regal Rexnord Engineering

Not Recommended for these Applications

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

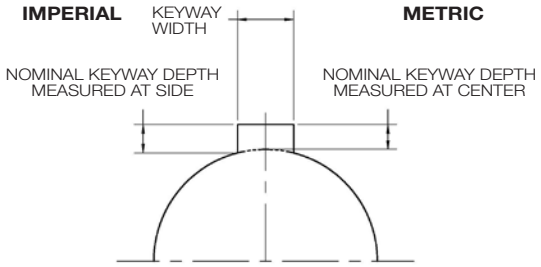
Type/Size		Torque Rating			O.D. (in)	Service Factor							# of Bolts
		HP / 100 RPM	Max Continuous (lb-in)	Peak Overload (lb-in)		Rated HP/100 RPM at Service Factor Shown							
						1.0	1.5	2.0	2.5	3.0	3.25	4.0	
Form-Flex™ A-Series	05	0.48	300	600	2.65	0.48	0.32	0.24	0.19				4
	10	1.27	800	1,600	3.19	1.27	0.85	0.63	0.51				
	15	2.50	1,575	3,150	3.65	2.50	1.67	1.25	1.00				
	20	3.49	2,200	4,400	4.08	3.49	2.33	1.75	1.40				
	25	6.03	3,800	7,600	4.95	6.03	4.02	3.01	2.41				
	30	11.00	6,930	13,860	5.63	11.00	7.33	5.50	4.40				
	35	18.00	11,340	22,680	6.63	17.99	12.00	9.00	7.20				
Form-Flex G-Series	311	17.5	11,000	22,000	5.88	17.45	11.64	8.73	6.98	5.8	5.4		6
	321	32.5	20,500	41,000	6.38	32.53	21.68	16.3	13.0	10.8	10		
	332	50.8	32,000	64,000	7.20	50.8	33.8	25	20	17	16		
	346	73.0	46,000	92,000	8.20	73.0	48.7	36	29	24	22		
	380	127	80,000	160,000	9.36	127	85	63	51	42	39		
	340	63.5	40,000	80,000	8.38	63.5	42.3	32	25	21	20	16	8
	412	190	120,000	240,000	11.00	190	127	95	76	63	59	48	
	419	301	190,000	380,000	12.50	301	201	151	121	100	93	75	
	424	476	300,000	600,000	15.00	476	317	238	190	159	146	119	
	444	690	435,000	870,000	16.38	690	460	345	276	230	212	173	
	456	889	560,000	1,120,000	18.00	889	592	444	355	296	273	222	
	483	1317	830,000	1,660,000	19.44	1317	878	658	527	439	405	329	
	511	1745	1,100,000	2,200,000	22.00	1745	1164	873	698	582	537	436	
	520	3173	2,000,000	4,000,000	24.88	3173	2116	1587	1269	1058	976	793	
	525	3967	2,500,000	5,000,000	26.75	3967	2644	1983	1587	1322	1221	992	
	530	4760	3,000,000	6,000,000	28.00	4760	3173	2380	1904	1587	1465	1190	
	540	6347	4,000,000	8,000,000	33.50	6347	4231	3173	2539	2116	1953	1587	

Imperial Standard Bore and Keyway Info

Recommended Bore Tolerance for Imperial Shafts (Inches)

Nominal Shaft Range		Shaft Tol.	Interference Fit Bore Tol.	Clearance Fit Bore Tol.
Over	To (Incl.)			
.4375	1.5	+.0000 / -.0005	-.0005 / -.0010	+.0010 / -.0000
1.5	2	+.0000 / -.0010	-.0010 /-.0020	+.0010 / -.0000
2	3		-.0010 /-.0020	+.0015 / -.0000
3	4		-.0015 / -.0030	
4	5		-.0020 / -.0035	
5	7		-.0025 / -.0040	
7	8		-.0030 / -.0050	N/A
8	9		-.0035 / -.0055	N/A
9	10		-.0040 / -.0060	N/A

Reference AGMA 9002-B04



Recommended Hub Keyway Dimensions (Inches)

Nominal Bore Range		Key Dims.		
Over	To (Incl.)	Width	Depth Square Key	Depth Reduced Key
0.312	0.438	0.094	0.047	-
0.438	0.562	0.125	0.063	0.047
0.562	0.875	0.188	0.094	0.062
0.875	1.250	0.25	0.125	0.094
1.250	1.375	0.312	0.156	0.125
1.375	1.750	0.375	0.188	0.125
1.750	2.250	0.500	0.250	0.188
2.250	2.750	0.625	0.313	0.219
2.750	3.250	0.750	0.375	0.250
3.250	3.750	0.875	0.438	0.313
3.750	4.500	1.000	0.500	0.375
4.500	5.500	1.250	0.625	0.438
5.500	6.500	1.500	0.750	0.500
6.500	7.500	1.750	0.875	0.750
7.500	9.000	2.000	1.000	0.750
9.000	11.000	2.500	1.250	0.875

Standard keyway fit is Commercial Class per AGMA 9002-B04

Metric Standard Bore and Keyway Info

Recommended Bore Tolerance for Metric Shafts (mm)

Nominal Shaft Range		Shaft Tol.	Shaft Des.	Clearance Fit		Interference Fit	
Over	To (Incl.)			Bore Tol.	Bore Des.	Bore Tol.	Bore Des.
12	18	+.008 / -.003	j6	+.016 / +.034	F7	-.015 / -.004	M6
19	30	+.009 / -.004		+.020 / +.041	F7	-.017 / -.004	M6
32	50	+.018 / +.002	k6	+.025 / +.050	F7	-.013 / +.003	K6
55	80	+.030 / +.011	m6	+.030 / +.060	F7	-.021 / +.009	K7
85	100	+.035 / +.013		+.036 / +.071	F7	-.035 / +.000	M7
110	120	+.035 / +.013				-.059 / -.024	P7
125	180	+.040 / +.015		+.043 / +.083	F7	-.068 / -.028	P7
190	200	+.046 / +.017		+.050 / +.096	F7	-.079 / -.033	P7
210	225					-.109 / -.063	R7
230	250					-.113 / -.067	R7
260	280	+.052 / +.020		+.056 / +.108	F7	-.126 / -.074	R7

Reference AGMA 9112-A04

Recommended Hub Keyway Dimensions (mm)

Nominal Bore Range		Nominal Key Size	Hub Keyway	
			Width	Depth
Over	To (Incl.)		Nominal	Nominal
10	12	4X4	4	1.8
12	17	5X5	5	2.3
17	22	6X6	6	2.8
22	30	8X7	8	3.3
30	38	10X8	10	3.3
38	44	12X8	12	3.3
44	50	14X9	14	3.8
50	58	16X10	16	4.3
58	65	18X11	18	4.4
65	75	20X12	20	4.9
75	85	22X14	22	5.4
85	95	25X15	25	5.4
95	110	28X16	28	6.4
110	130	32X18	32	7.4
130	150	36X20	36	8.4
150	170	40X22	40	9.4
170	200	45X25	45	10.4
200	230	50X28	50	11.4
230	260	56X32	56	12.4
260	290	63X32	63	12.4

Standard metric keyway width tolerance per Js9

Engineering Standards

INDUSTRY STANDARDS REFERENCED

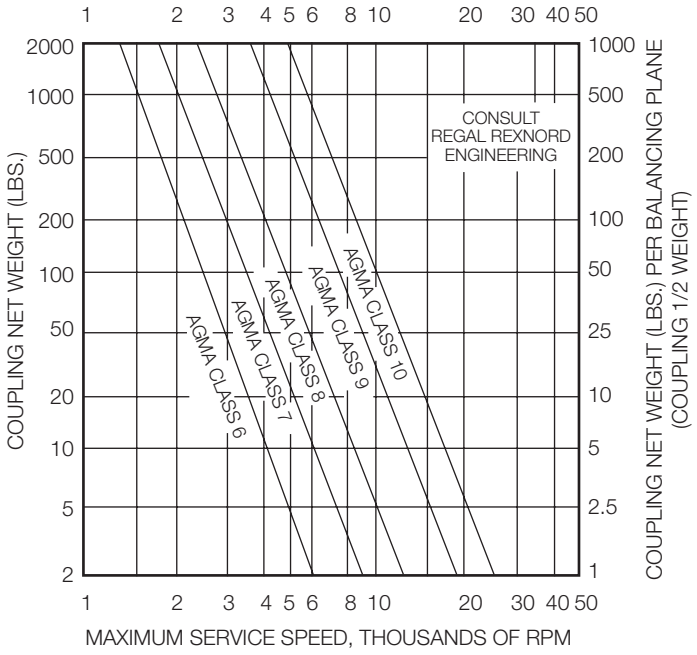
AGMA 9002-B04 - BORES AND KEYWAYS FOR FLEXIBLE COUPLINGS (INCH SERIES)
AGMA 9112-A04 - BORES AND KEYWAYS FOR FLEXIBLE COUPLINGS (METRIC SERIES)
AGMA 922-A96 - LOAD CLASSIFICATION AND SERVICE FACTORS FOR FLEXIBLE COUPLINGS
API610 / ISO 13709 - CENTRIFUGAL PUMPS FOR PETROLEUM, PETROCHEMICAL AND NATURAL GAS INDUSTRY, 11th Edition.
API671 / ISO 10441 - SPECIAL PURPOSE COUPLINGS FOR PETROLEUM, CHEMICAL AND GAS INDUSTRY SERVICES, 4th Edition
NEMA MG1 14.38, MG1 20.81 AND MG1 21.82 - All Form-Flex™ flexible disc couplings meet these standards without the addition of a limited end float device.

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.

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.

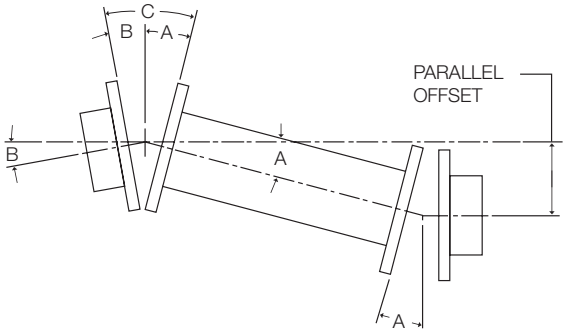
BALANCE CLASS SELECTION CHART



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.

HOW FLEXIBLE DISC COUPLINGS ACCOMMODATE MISALIGNMENT



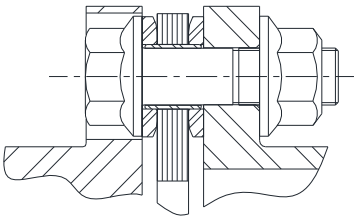
Double flexing metal disc couplings may be used to accommodate angular, parallel and axial misalignment. Single flexing couplings may only be used to accommodate angular and axial misalignment. A metal disc type coupling uses a double hinge effect through two flexible discs and the spacer to compensate 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.

Product Differentiation

Form-Flex™ A - Series	Form-Flex G - Series
Higher Bore Capacity in Low Torque Range	Higher Torque Density
1 ° Misalignment	.3 - .5 ° Misalignment
Clearance Fit is Standard	Interference Fit is Standard
AGMA 7 Balance Class	AGMA 8 Balance Class
Non-Unitized Disc Pack	Unitized Disc Pack
ATEX Group II/ Cat 3	ATEX Group II/ Cat 3
Low to Moderate Speeds	Low to Moderate Speeds

DISC PACK DESIGN COMPARISON

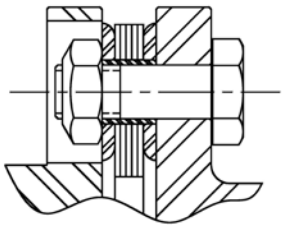
Form-Flex G-Series Sizes 311-380



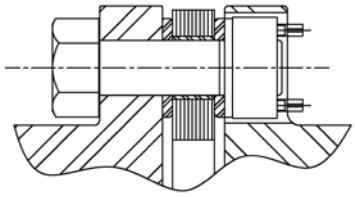
UNITIZED

- Disc pack force transferred to washer & hub interface
- Low bolt bending stress
- All torque transmitted through friction
- Higher torque capacity

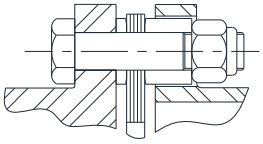
Form-Flex G-Series Sizes 340 & 412-511



Form-Flex G-Series Sizes 517-540



Form-Flex A-Series Sizes 5-35

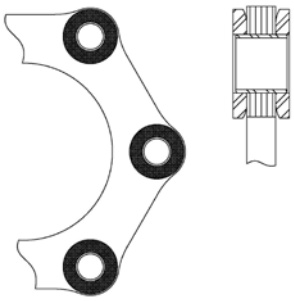


NON-UNITIZED

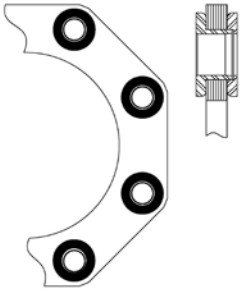
- Disc pack creates a bending moment on bolt
- High bolt bending stress
- Torque transmitted through shear and friction
- Lower torque capacity

UNITIZED DISC DESIGNS

Form-Flex G-Series, Sizes 311-380 (excluding 340)

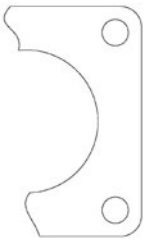


Form-Flex G-Series, Sizes 340 & 412-540



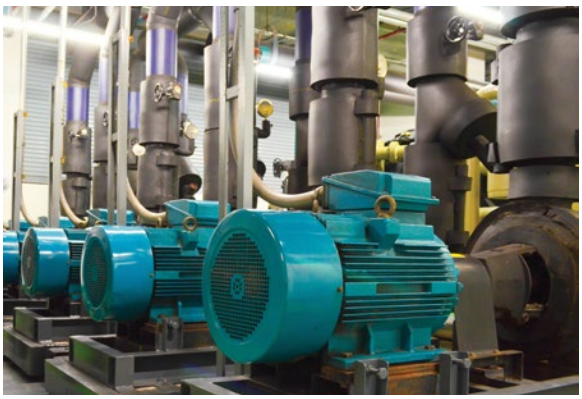
NON-UNITIZED DISC DESIGNS

Form-Flex A-Series sizes 5-35



Spacer Couplings

PRODUCT DESCRIPTION



- Designed for moderate to higher speed applications
- Construction includes:
  - Two fully machined steel hubs
  - One fully machined steel spool spacer
  - Standard hardware and stainless steel disc packs
- Form-Flex™ A-Series designs use non-unitized disc packs
- Form-Flex G-Series designs use unitized disc packs
- Custom length spacer up to max DBSE
- Balancing and other modifications to suit your special system requirements
- Can be bored for any shaft configuration (pages 27 & 28 for hub design options)

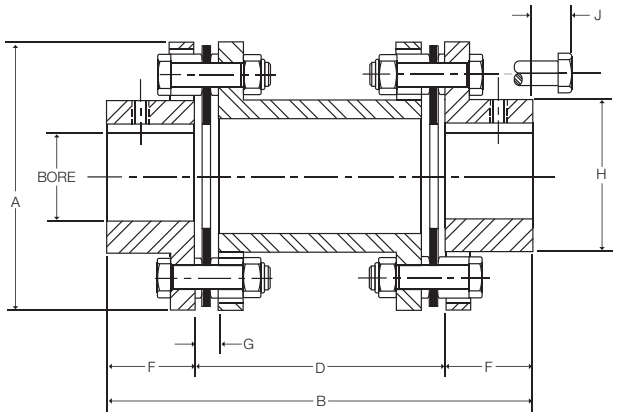
TYPICAL APPLICATIONS

- Pumps
- Centrifugal and Screw Compressors
- Fans and Blowers
- Mixers
- Turbo Compressors

SPECIAL APPLICATIONS

- Test Stands
- Machine Tools / Positioning Systems
- Electrical Insulation

Double Flex Spacer



COUPLING CAN BE SUPPLIED TO API610 11TH EDITION

Size	Max Bore				Dimensions (in)								
	AJ		AZ		A	B		D DBSE		F	G	H	J
	(in)	(mm)	(in)	(mm)		Min	Max	Min	Max				
5	0.875	22	1.19	30	2.65	3.72	6.94	1.72	4.94	1.00	0.24	1.30	0.54
10	1.250	33	1.63	43	3.19	4.06	7.00	2.06	5.00	1.00	0.27	1.80	0.56
15	1.375	36	1.75	48	3.65	4.67	8.89	2.41	6.63	1.13	0.32	2.00	0.88
20	1.688	46	2.13	58	4.08	5.02	9.27	2.38	6.63	1.32	0.34	2.40	0.79
25	2.000	53	2.56	68	4.95	6.16	13.12	2.92	9.88	1.62	0.45	2.80	1.00
30	2.380	63	2.88	79	5.63	7.57	13.70	3.81	9.94	1.88	0.47	3.30	1.14
35	2.938	80	3.75	101	6.63	8.81	17.56	4.31	13.06	2.25	0.55	4.15	0.97

Dimensions are shown for standard AJ hubs unless otherwise specified.

Size	HP/100 RPM	Rated Torque (lb-in)	Peak O/L Torque (lb-in)	AGMA 7 Max RPM	Weight (lbs) ①		WR^2 (lb-in²) ①		Misalignment Capacity	
					at D Min	Add Per Inch of D	at D Min	Add Per Inch of D	Axial (+/-in)	Angular (Degrees/Disc Pack)
5	0.48	300	600	8,500	2.32	0.14	1.87	0.05	0.030	1°
10	1.27	800	1,600	7,500	3.62	0.22	4.48	0.11	0.040	
15	2.5	1,575	3,150	6,700	5.44	0.26	8.86	0.19	0.042	
20	3.49	2,200	4,400	6,200	6.96	0.32	13.8	0.34	0.055	
25	6.03	3,800	7,600	5,500	12.7	0.41	38.8	0.62	0.060	
30	11	6,930	13,860	5,000	19	0.46	77.7	0.92	0.065	
35	18	11,340	22,680	4,400	27.6	0.63	156	2.29	0.085	

① Weight and WR^2 values shown are for AJ hubs at max inch bore and spacer length at D Min

STANDARD MATERIALS (CLASS A)

HUBS - CARBON STEEL

SPACER - CARBON STEEL

HARDWARE - ALLOY STEEL

DISC PACK - STAINLESS STEEL

ORDERING

AP SERIES COUPLINGS ARE SOLD AS COMPONENTS

COUPLINGS CONSIST OF:

2 - HUBS - Example (AJ25A x 1-3/4")

1 - SPACER SUB-ASSEMBLY - Example for DBSE = 5.00" (AP25A500)

MATERIAL / FINISH OPTIONS

CLASS A - Steel hubs and spacer, alloy steel hardware, 300 series stainless steel disc pack

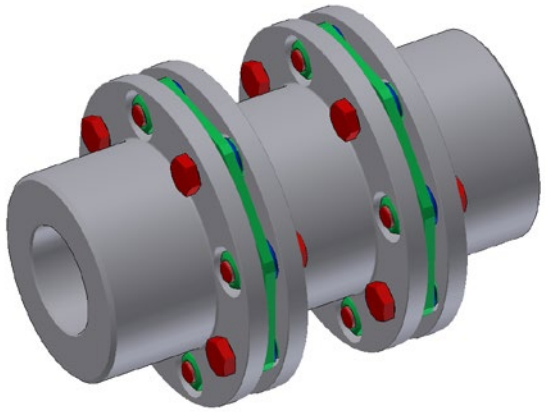
CLASS B - Zinc plated steel hubs, and spacer, alloy steel hardware, 300 series stainless steel disc pack

CLASS C - Zinc plated steel hubs, and spacer, stainless steel hardware, 300 series stainless steel disc pack

CLASS E - 300 series stainless steel hubs and spacer, stainless steel hardware, 300 series stainless steel disc pack (Only available for sizes 15 thru 35)

Spacer Coupling GP Series - Form-Flex™

Double Flex Spacer



Size	Torque Rating			Max Speed (RPM)		Weight (lbs) ①		WR² (lb-in²) ①		Misalignment Capacity	
	HP / 100 (RPM)	Max Continuous (lb-in)	Peak Overload (lb-in)	AGMA 8	ABS. Max	at D Min	Add Per Inch of D	at D Min	Add Per Inch of D	Axial (+/- in)	Angular (Degrees/ Disc Pack)
311	17	11,000	22,000	5,400	13,000	16.20	0.62	66.70	2.09	0.028	
321	33	20,500	41,000	4,900	12,000	25.75	0.66	123.01	2.54	0.029	
332	51	32,000	64,000	4,400	11,500	40.27	0.94	242.39	4.27	0.030	0.5°
346	73	46,000	92,000	4,100	9,000	54.42	1.03	429.27	6.94	0.050	
380	127	80,000	160,000	3,800	7,000	79.30	1.20	792.67	8.75	0.080	
412	190	120,000	240,000	3,500	6,000	110.1	1.45	1607.6	13.29	0.080	
419	301	190,000	380,000	3,000	5,000	197.8	2.32	3660.0	27.92	0.100	
424	476	300,000	600,000	2,750	5,000	287.6	3.08	8127.6	62.49	0.100	
444	690	435,000	870,000	2,500	4,000	413.3	3.38	13587	87.03	0.110	
456	1015	640,000	1,280,000	2,350	3,500	539	4.73	21896	133.5	0.120	
483	1317	830,000	1,660,000	2,200	3,500	727	5.36	33653	195.1	0.130	0.33°
511	1904	1,200,000	2,400,000	2,050	3,000	978	6.75	60082	310.3	0.140	
520	3173	2,000,000	4,000,000	1,750	2,500	1752	10.14	114979	586.5	0.180	
525	3967	2,500,000	5,000,000	1,700	2,500	2113	11.07	185975	762.5	0.200	
530	4760	3,000,000	6,000,000	1,600	2,500	2533	15.43	243383	1160.9	0.200	
540	6347	4,000,000	8,000,000	1,450	2,000	3831	19.23	557906	2247.7	0.240	

① Weight and WR² values shown are for standard hubs at max inch bore and spacer length at D Min

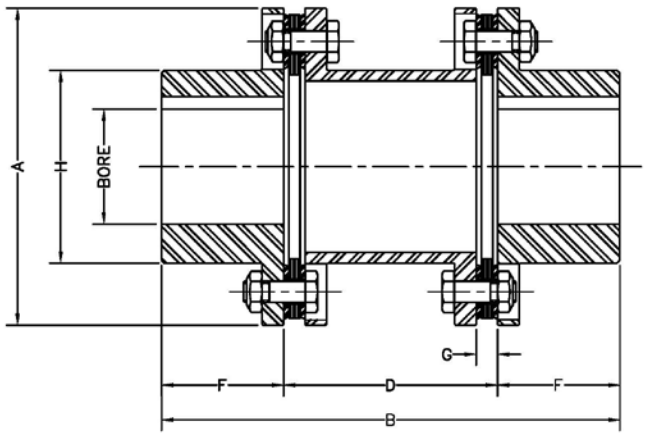
STANDARD MATERIALS

HUBS - CARBON STEEL
SPACER - CARBON STEEL
HARDWARE - ALLOY STEEL
DISC PACK - STAINLESS STEEL

MATERIAL / FINISH OPTIONS

ZINC ELECTRO PLATING
PHOSPHATE COATING
ALLOY STEEL HUBS

Double Flex Spacer



COUPLING CAN BE SUPPLIED
TO API610 11TH EDITION

Size	Max Bore						Common Coupling Dimensions (in)								
	Standard Hub			Oversized/Large Hub			A	B		D DBSE		F	G	H	
	Square Key (in)	Rect. Key (in)	Rect. Key (mm)	Square Key (in)	Rect. Key (in)	Rect. Key (mm)		Min	Max	Min	Max			Std Hub	O/S Hub
311	2.813	3.063	78	3.125	3.313	86	5.88	8.06	17.75	3.06	12.75	2.50	0.40	3.91	4.30
321	3.000	3.250	83	3.250	3.438	90	6.38	10.13	19.06	4.13	13.06	3.00	0.55	4.25	4.57
332	3.188	3.313	87	3.438	3.688	95	7.20	12.00	19.19	5.00	13.19	3.50	0.61	4.50	4.95
346	3.750	4.000	107	4.250	4.500	117	8.20	12.50	25.19	5.00	19.19	3.75	0.62	5.42	5.95
380	3.750	4.000	105	4.250	4.500	118	9.42	15.00	28.00	6.75	19.75	4.13	0.89	5.65	6.30
412	4.500	4.500	120	4.750	5.125	135	11.00	14.19	27.94	5.69	19.44	4.25	0.75	6.51	7.20
419	4.500	4.875	130	5.500	5.625	150	12.50	17.69	29.94	7.69	19.94	5.00	0.98	7.32	8.07
424	6.625	6.880	190				15.00	20.19	32.44	7.69	19.94	6.25	0.98	9.57	
444	7.000	7.375	200				16.38	22.75	34.13	8.75	20.13	7.00	1.09	10.52	
456	8.000	8.000	220				18.00	24.31	35.13	9.81	20.63	7.25	1.32	11.63	
483	8.250	8.875	234				19.44	27.69	37.75	10.69	20.75	8.50	1.39	12.56	
511	10.000	10.125	280				22.00	29.69	39.06	11.69	21.06	9.00	1.56	14.50	
520	10.375	11.000	297				24.88	38.50	45.50	14.75	21.75	11.88	1.89	16.10	
525	11.000	12.000	322				26.75	39.38	45.88	15.38	21.88	12.00	1.95	17.35	
530	11.500	12.750	338				28.00	41.88	47.75	16.38	22.25	12.75	2.14	18.35	
540	15.750	17.000	448				33.50	49.00	54.13	19.00	24.13	15.00	2.58	22.63	

ORDERING

GP SERIES COUPLINGS ARE SOLD AS COMPLETE ASSEMBLIES
PLEASE SPECIFY BORE SIZES, DISC PACK MATERIAL AND DBSE.
A COUPLING WILL BE CONFIGURED TO MEET YOUR SPECIFICATIONS.

Floating Shaft Couplings

PRODUCT DESCRIPTION

- Used for coupling spans that are greater than max catalog length for fully machined spacer designs
- Designed for moderate speed applications
- Construction includes:
  - Two fully machined steel hubs
  - One dynamically balanced welded spacer
  - Standard hardware and stainless steel disc packs
- Form-Flex™ A-Series designs use non-unitized disc packs
- Form-Flex G-Series designs use unitized disc packs
- Spacers are configured for any custom length up to D-max shown per operating speed
- Can be bored for any shaft configuration (see pages 27 & 28 for hub design options)

TYPICAL APPLICATIONS

- Fans
- Turbo Compressors
- Vertical Pumping
- Printing Press
- Paper Machines

SPECIAL APPLICATIONS

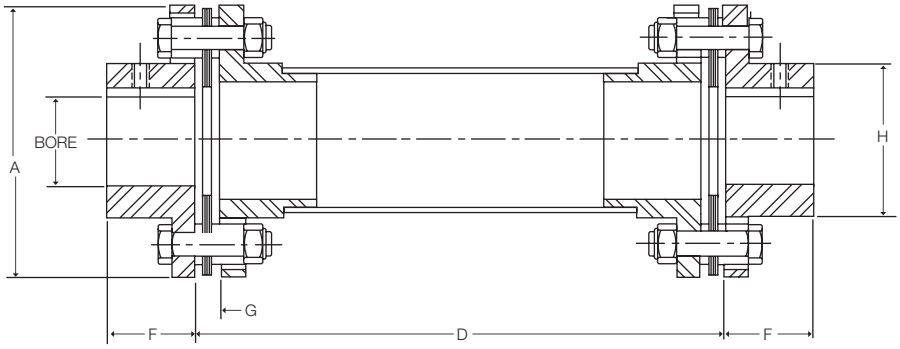
- Mine Ventilation
- Dynamometers
- Test Stands
- Dredging Equipment
- Lift Tables

DESIGN VARIATIONS

- A5/G5 - Welded Steel Tube
- A6/G6 - Welded Steel Tube - Vertical
- A7/G7 - Welded Steel Tube - Semi-Floating Spacer

Large tube designs are available for speeds greater than catalog limits or for torsional tuning. Consult Regal Rexnord™ engineering for more information.

Double Flex Floating Shaft



Size	Max Bore				Dimensions (in)					Max D (in) for RPM Shown					
	AJ		AZ		A	D Min	F	G	H	1800	1500	1200	900	750	600
	(in)	(mm)	(in)	(mm)											
5	0.875	22	1.19	30	2.65	4.94	1.00	0.24	1.30	51	56	62	71	78	87
10	1.250	33	1.63	43	3.19	5.00	1.00	0.27	1.80	62	69	76	88	96	107
15	1.375	36	1.75	48	3.65	6.63	1.13	0.32	2.00	64	71	79	91	99	111
20	1.688	46	2.13	58	4.08	6.63	1.32	0.34	2.40	73	81	90	103	113	126
25	2.000	53	2.56	68	4.95	9.88	1.62	0.45	2.80	79	87	97	112	122	137
30	2.380	63	2.88	79	5.63	9.94	1.88	0.47	3.30	85	94	102	120	132	147
35	2.938	80	3.75	101	6.63	13.06	2.25	0.55	4.15	97	107	119	137	150	168

Dimensions are shown for standard AJ hubs unless otherwise specified.

Size	HP/100 RPM	Rated Torque (lb-in)	Peak O/L Torque (lb-in)	Weight (lbs) ①		WR^2 (lb-in²) ①		Misalignment Capacity	
				at D min	Add Per Inch of D	at D min	Add Per Inch of D	Axial (+/-in)	Angular (Degrees/ Disc Pack)
5	0.48	300	600	2.71	0.11	1.93	0.03	0.030	1°
10	1.27	800	1,600	4.14	0.10	4.83	0.07	0.040	
15	2.5	1,575	3,150	6.14	0.10	9.36	0.07	0.042	
20	3.49	2,200	4,400	8.69	0.21	15.36	0.22	0.055	
25	6.03	3,800	7,600	14.98	0.20	42.07	0.29	0.060	
30	11	6,930	13,860	22.78	0.29	84.97	0.56	0.065	
35	18	11,340	22,680	32.02	0.40	170.84	1.32	0.085	

① Weight and WR^2 values shown are for AJ hubs at max inch bore and spacer length at D Min

STANDARD MATERIALS (CLASS A)

HUBS - CARBON STEEL
SPACER - CARBON STEEL
HARDWARE - ALLOY STEEL
DISC PACK - STAINLESS STEEL

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.

MATERIAL / FINISH OPTIONS

CLASS A - Steel hubs and spacer, alloy steel hardware, 300 series stainless steel disc pack
CLASS B - Zinc plated steel hubs, and spacer, alloy steel hardware, 300 series stainless steel disc pack
CLASS C - Zinc plated steel hubs, and spacer, stainless steel hardware, 300 series stainless steel disc pack
CLASS E - 300 series stainless steel hubs and spacer, stainless steel hardware, 300 series stainless steel disc pack (Only available for sizes 15 thru 30)

Floating Shaft Spacer Coupling G5 Series - Form-Flex™

Double Flex Floating Shaft

Size	Torque Rating			Weight ① (lb)		WR² ① (lb-in²)		Misalignment Capacity	
	HP / 100 (RPM)	Max Continuous (lb-in)	Peak Overload (lb-in)	at D Min	Add Per Inch	at D Min	Add Per Inch	Axial (+/- in)	Angular (Degrees/ Disc Pack)
311	17	11,000	22,000	22.67	0.39	86.75	1.28	0.028	
321	33	20,500	41,000	32.24	0.44	148.2	1.88	0.029	
332	51	32,000	64,000	47.06	0.47	271.2	2.24	0.030	0.5°
346	73	46,000	92,000	77.73	1.11	568.7	6.95	0.050	
380	127	80,000	160,000	102.5	1.17	944.6	8.04	0.080	
412	190	120,000	240,000	151.5	2.04	1,972.6	19.15	0.080	
419	301	190,000	380,000	248.2	2.21	4,137	24.24	0.100	
424	476	300,000	600,000	358.3	3.04	9,456	63.33	0.100	
444	690	435,000	870,000	502.2	3.38	15,621	86.52	0.110	
456	1015	640,000	1,280,000	633.6	4.89	24,595	147.92	0.120	
483	1317	830,000	1,660,000	880.0	5.11	37,972	169.02	0.130	0.33°
511	1904	1,200,000	2,400,000	1132	5.11	64,246	169.02	0.140	
520	3173	2,000,000	4,000,000	CONSULT REGAL REXNORD				0.180	
525	3967	2,500,000	5,000,000					0.200	
530	4760	3,000,000	6,000,000					0.200	
540	6347	4,000,000	8,000,000					0.240	

① Weight and WR² values shown are for standard at max inch bore and spacer length at D Min

STANDARD MATERIALS

HUBS - CARBON STEEL
SPACER - CARBON STEEL
HARDWARE - ALLOY STEEL
DISC PACK - STAINLESS STEEL

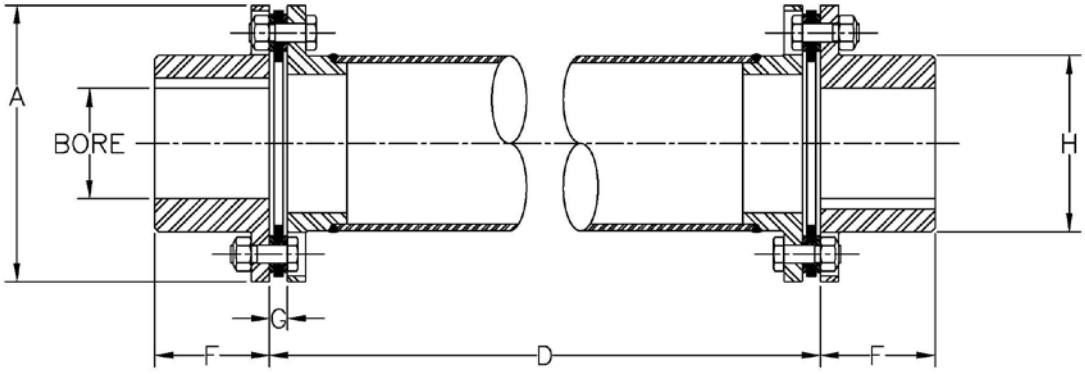
MATERIAL OPTIONS

ZINC ELECTRO PLATING
PHOSPHATE COATING
ALLOY STEEL HUBS

DESIGN VARIATIONS

- G5 - Welded Steel Tube
- G6 - Welded Steel Tube—Vertical
- G7 - Welded Steel Tube—Semi-Floating Spacer

Double Flex Floating Shaft



Size	Max Bore						Common Coupling Dimensions (in)								Max D (in) for RPM Shown					
	Standard Hub			Oversized/Large Hub			A	D Min	F	G	H		Tube		1800	1500	1200	900	750	600
	Square Key (in)	Rect. Key (in)	Rect. Key (mm)	Square Key (in)	Rect. Key (in)	Rect. Key (mm)					Std Hub	O/S Hub	OD	ID						
311	2.813	3.063	78	3.125	3.313	86	5.88	12.750	2.50	0.40	3.91	4.30	3.63	3.39	94	103	116	134	146	164
321	3.000	3.250	83	3.250	3.438	90	6.38	13.063	3.00	0.55	4.25	4.57	4.00	3.76	101	110	124	143	156	175
332	3.188	3.313	87	3.438	3.688	95	7.20	13.188	3.50	0.61	4.50	4.95	4.25	4.01	104	114	127	147	161	180
346	3.750	4.000	107	4.250	4.500	117	8.20	19.188	3.75	0.62	5.42	5.95	5.25	4.75	111	122	136	157	172	192
380	3.750	4.000	105	4.250	4.500	118	9.42	19.750	4.13	0.89	5.65	6.30	5.50	5.00	114	125	140	161	177	197
412	4.500	4.500	120	4.750	5.125	135	11.00	19.438	4.25	0.75	6.51	7.20	6.50	5.75	123	135	151	174	191	213
419	4.500	4.875	130	5.500	5.625	150	12.50	19.938	5.00	0.98	7.32	8.07	7.00	6.25	128	140	157	181	198	222
424	6.625	6.880	190				15.00	19.938	6.25	0.98	9.57		9.50	8.75	150	164	184	212	233	260
444	7.000	7.375	200				16.38	20.125	7.00	1.09	10.52		10.50	9.75	158	173	194	224	245	274
456	8.000	8.000	220				18.00	20.625	7.25	1.32	11.63		11.50	10.50	165	181	202	233	256	286
483	8.250	8.875	234				19.44	20.750	8.50	1.39	12.56		12.00	11.00	168	184	206	238	261	292
511	10.000	10.125	280				22.00	21.063	9.00	1.56	14.50		12.00	11.00	168	184	206	238	261	292
520	10.375	11.000	297				24.88	21.750	11.88	1.89	16.10	CONSULT REGAL REXNORD								
525	11.000	12.000	322				26.75	21.875	12.00	1.95	17.35									
530	11.500	12.750	338				28.00	22.250	12.75	2.14	18.35									
540	15.750	17.000	448				33.50	24.125	15.00	2.58	22.63									

ORDERING

G5 SERIES COUPLINGS ARE SOLD AS COMPLETE ASSEMBLIES
PLEASE SPECIFY BORE SIZES, DISC PACK MATERIAL AND DBSE.
A COUPLING WILL BE CONFIGURED TO MEET YOUR SPECIFICATIONS.

Close Coupled Couplings

PRODUCT DESCRIPTION

- Used for close shaft spacing where traditional spacer couplings cannot be used
- Designed for moderate speed applications
- Construction includes:
  - Two fully machined steel hubs
  - One flat bar or machined block style spacer
  - Standard hardware and stainless steel disc packs
- Form-Flex™ designs use non-unitized disc packs

Spacers are configured for minimal shaft separation. Shorter shaft separation is possible by allowing the shafts to extend through the disc packs into the center of the coupling. The shaft diameter must be less than the disc pack I.D. listed in the dimensional table.

TYPICAL APPLICATIONS

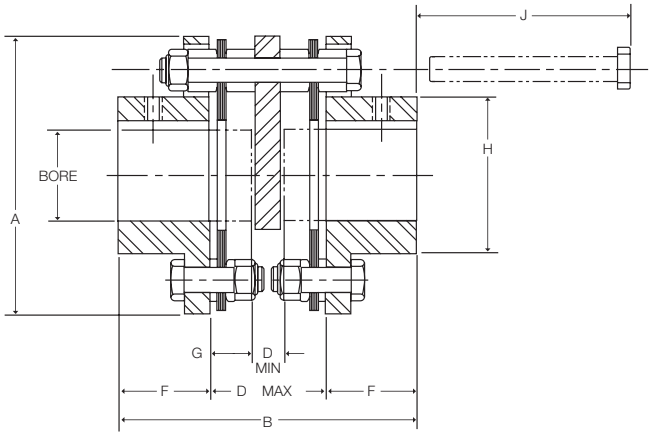
- Machine Tools
- Ball Screws
- Pumps
- Printing Machines

SPECIAL APPLICATIONS

- Elastomeric Coupling Replacement
- Cranes
- Gear Coupling Replacement

General Use - Double Flex Short Spacer

The AX series close coupling is made up of two hubs, a steel spacer block, two stainless steel disc packs and AX hardware. A special bolting arrangement supports the spacer between the flex discs. The AX is an economical design that is well suited to many general purpose applications. The AX 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 disc pack I.D. listed in the dimensional table.



Size	Max Bore				Dimensions (in) ①								
	AJ		AZ		A	B	DBSE		F	G	H	J	DISC PACK I.D. ②
	(in)	(mm)	(in)	(mm)			D ② Min	D Max					
5	0.875	22	1.19	30	2.65	3.34	0.38	1.34	1.00	0.48	1.30	1.68	1.00
10	1.250	33	1.63	43	3.19	3.40	0.44	1.40	1.00	0.48	1.30	1.79	1.17
15	1.375	36	1.75	48	3.65	3.80	0.63	1.54	1.13	0.44	2.00	1.85	1.28
20	1.688	46	2.13	58	4.08	4.22	0.63	1.58	1.32	0.48	2.40	1.66	1.65
25	2.000	53	2.56	68	4.95	5.36	0.75	2.12	1.62	0.69	2.80	2.39	1.78
30	2.380	63	2.88	79	5.63	6.30	1.00	2.54	1.88	0.77	3.30	3.18	2.01
35	2.938	80	3.75	101	6.63	7.17	1.13	2.67	2.25	0.77	4.15	2.81	2.71

① Dimension shown are for AJ hubs unless otherwise specified.
② Shaft O.D. must be less than Disc Pack I.D. in order to extend shafts into the coupling to meet D Min dimensions.

Size	HP/100 RPM	Rated Torque (lb-in)	Peak O/L Torque (lb-in)	Max RPM	Weight (lbs) ①	WR² (lb-in²) ①	Misalignment Capacity	
							Axial (+/-in)	Angular (Degrees/ Disc Pack)
5	0.48	300	450	8,500	1.63	1.26	0.030	1°
10	1.27	800	1,200	7,500	2.48	2.9	0.040	
15	2.5	1,575	2,363	6,700	3.84	5.8	0.042	
20	3.49	2,200	3,300	6,200	5.1	9.16	0.055	
25	6.03	3,800	5,700	5,500	9.13	26.1	0.060	
30	11	6,930	10,395	5,000	13.8	51.7	0.065	
35	18	11,340	17,010	4,400	21.1	108	0.085	

① Weight and WR² values shown are for AJ hubs at max inch bore.

STANDARD MATERIALS (CLASS A)

HUBS - CARBON STEEL
SPACER - CARBON STEEL
HARDWARE - ALLOY STEEL
DISC PACKS - STAINLESS STEEL

ORDERING

AX SERIES COUPLINGS ARE SOLD AS COMPONENTS
COUPLINGS CONSIST OF:
2 - HUBS - Example (AJ25A x 1-3/4")
1 - SPACER SUB-ASSEMBLY - Example (AX25SAA)

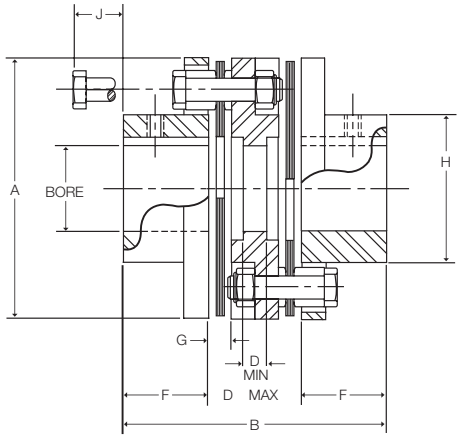
STANDARD MATERIALS (CLASS A)

CLASS A - Mild steel hubs and spacer, alloy steel hardware, 300 series stainless steel disc packs
CLASS B - Zinc plated steel hubs, and spacer, alloy steel hardware, 300 series stainless steel disc packs

Close Coupled Coupling AA Series - Form-Flex™

General Use with Shorter Bolt Removal - Double Flex

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 disc packs are standard. The AA accommodates close shaft separations when it is installed with the shafts extending through the disc pack into the center of the coupling. The shaft diameter must be less than the disc pack I.D. listed in the dimensional table. This coupling is recommended when the bolt removal length (J) makes the AX coupling impractical.



Size	Max Bore				Dimensions (in) ①								
	AJ		AZ		A	B	DBSE		F	G	H	J	Disc Pack I.D. ②
	(in)	(mm)	(in)	(mm)			D ② Min	D Max					
5	0.875	22	1.19	30	2.65	3.23	0.25	1.23	1.00	0.24	1.30	0.54	1.00
10	1.250	33	1.63	43	3.19	3.73	0.25	1.73	1.00	0.27	1.80	0.56	1.17
15	1.375	36	1.75	48	3.65	3.82	0.31	1.56	1.13	0.32	2.00	0.88	1.28
20	1.688	46	2.13	58	4.08	4.38	0.41	1.74	1.32	0.34	2.40	0.79	1.65
25	2.000	53	2.56	68	4.95	5.26	0.41	2.02	1.62	0.45	2.80	1.00	1.78
30	2.380	63	2.88	79	5.63	6.24	0.56	2.48	1.88	0.47	3.30	1.14	2.01
35	2.938	80	3.75	101	6.63	6.91	0.66	2.41	2.25	0.55	4.15	0.97	2.71

① Dimension shown are for AJ hubs unless otherwise specified.
② Shaft O.D. must be less than Disc Pack I.D. in order to extend shafts into the coupling to meet D Min dimensions.

Size	HP/100 RPM	Rated Torque (lb-in)	Peak O/L Torque (lb-in)	Max RPM	Weight (lbs) ①	WR² (lb-in²) ①	Misalignment Capacity	
							Axial (+/-in)	Angular (Degrees/ Disc Pack)
5	0.48	300	450	3,600	1.76	1.4	0.030	1°
10	1.27	800	1,200	3,500	2.77	3.35	0.040	
15	2.5	1,575	2,363	3,450	4.24	6.66	0.042	
20	3.49	2,200	3,300	3,350	5.48	10.2	0.055	
25	6.03	3,800	5,700	3,200	9.81	29.4	0.060	
30	11	6,930	10,395	3,000	15.0	59.0	0.065	
35	18	11,340	17,010	2,800	22.4	121	0.085	

① Weight and WR² values shown are for AJ hubs at max inch bore.

STANDARD MATERIALS (CLASS A)

HUBS - CARBON STEEL
SPACER - CARBON STEEL
HARDWARE - ALLOY STEEL
DISC PACK - STAINLESS STEEL

ORDERING

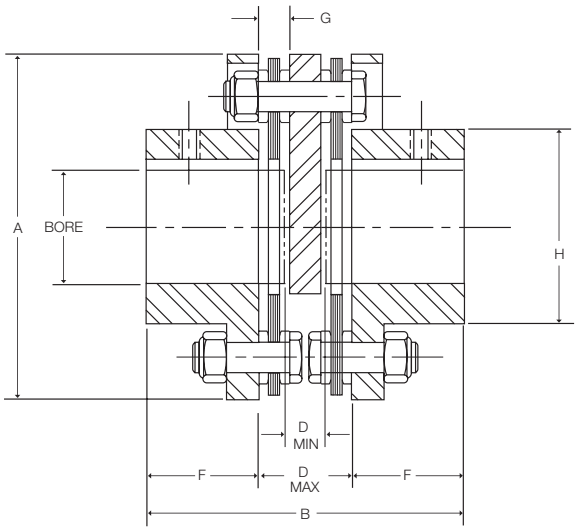
AA SERIES COUPLINGS ARE SOLD AS COMPONENTS
COUPLINGS CONSIST OF:
2 - HUBS - Example (AJ25A x 1-3/4")
1 - SPACER SUB-ASSEMBLY - Example (AA25SAA)

MATERIAL / FINISH OPTIONS

CLASS A - Steel hubs and spacer, alloy steel hardware, 300 series stainless steel disc pack
CLASS B - Zinc plated steel hubs, and spacer, alloy steel hardware, 300 series stainless steel disc pack
CLASS C - Zinc plated steel hubs, and spacer, stainless steel hardware, 300 series stainless steel disc pack

Positioning Applications - Double Flex Short Spacer

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 steel disc packs and AY hardware. The coupling must be installed as an assembled unit. The spacer is not service removable.



Size	Max Bore				Dimensions (in) ①							
	AJ		AZ		A	B	DBSE		F	G	H	Disc Pack I.D. ②
	(in)	(mm)	(in)	(mm)			D ② Min	D Max				
5	0.875	22	1.19	30	2.65	2.85	0.49	0.85	1.00	0.24	1.30	1.00
10	1.250	33	1.63	43	3.19	2.91	0.50	0.91	1.00	0.27	1.80	1.17
15	1.375	36	1.75	48	3.65	3.33	0.56	1.07	1.13	0.32	2.00	1.28
20	1.688	46	2.13	58	4.08	3.76	0.56	1.12	1.32	0.34	2.40	1.65
25	2.000	53	2.56	68	4.95	4.77	0.87	1.53	1.62	0.45	2.80	1.78

① Dimension shown are for AJ hubs unless otherwise specified.
② Shaft O.D. must be less than Disc Pack I.D. in order to extend shafts into the coupling to meet D Min dimensions.

Size	HP/100 RPM	Rated Torque (lb-in)	Peak O/L Torque (lb-in)	Max RPM	Weight (lbs) ①	WR^2 ($lb\text{-}in^2$) ①	Misalignment Capacity	
							Axial (+/-in)	Angular (Degrees/ Disc Pack)
5	0.48	300	600	8,500	1.64	1.24	0.030	1°
10	1.27	800	1,600	7,500	2.68	3.08	0.040	
15	2.5	1,575	3,150	6,700	4.23	6.41	0.042	
20	3.49	2,200	4,400	6,200	5.49	9.92	0.055	
25	6.03	3,800	7,600	5,500	9.78	27.6	0.060	

① Weight and WR^2 values shown are for AJ hubs at max inch bore.

STANDARD MATERIALS (CLASS A)

HUBS - CARBON STEEL
SPACER - CARBON STEEL
HARDWARE - ALLOY STEEL
DISC PACK - STAINLESS STEEL

ORDERING

AY SERIES COUPLINGS ARE SOLD AS COMPONENTS
COUPLINGS CONSIST OF:
2 - HUBS - Example (AJ25A x 1-3/4")
1 - SPACER SUB-ASSEMBLY - Example (AY25SAA)

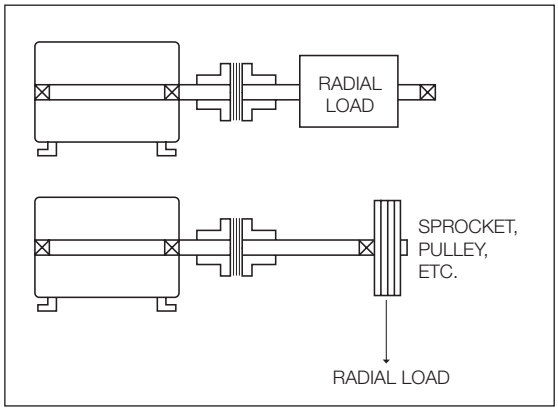
MATERIAL / FINISH OPTIONS

CLASS A - Mild steel hubs and spacer, alloy steel hardware, 300 series stainless steel disc pack
CLASS B - Zinc plated steel hubs, and spacer, alloy steel hardware, 300 series stainless steel disc pack

Single Flex Couplings

PRODUCT DESCRIPTION

- Single flex couplings accommodate angular and axial misalignment only
- Construction includes:
  - Two fully machined steel hubs
  - Standard hardware and stainless steel disc packs
- Form-Flex™ A-Series designs use non-unitized disc packs
- Form-Flex G-Series designs use unitized disc packs
- Not intended for elastomeric coupling replacement
- Hubs can be single plane balanced for higher speed applications
- Can be bored for any shaft configuration (see page 27 for hub design options)



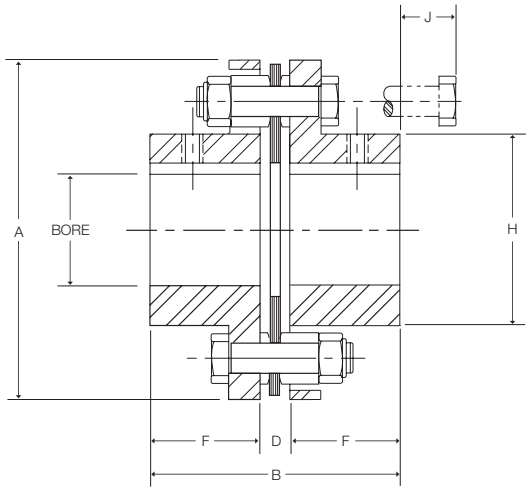
TYPICAL APPLICATIONS

- Should only be used in three bearing system
- Used in pairs for floating shaft arrangement
- Can be used in pairs to support other components
  - Clutches
  - Brakes
  - Sheaves
- Mixers
- Single coupling can be used to support a component when a self-aligning bearing is used

SPECIAL APPLICATIONS

- Torque Monitoring Equipment

Single Flex Short Spacing



Size	Max Bore				Dimensions (in) ①					
	AJ		AZ		A	B	D	F	H	J
	(in)	(mm)	(in)	(mm)			DBSE			
5	0.875	22	1.19	30	2.65	2.24	0.24	1.00	1.30	0.54
10	1.250	33	1.63	43	3.19	2.27	0.27	1.00	1.80	0.59
15	1.375	36	1.75	48	3.65	2.58	0.32	1.13	2.00	0.88
20	1.688	46	2.13	58	4.08	2.98	0.34	1.32	2.40	0.79
25	2.000	53	2.56	68	4.95	3.69	0.45	1.62	2.80	1.00
30	2.380	63	2.88	79	5.63	4.23	0.47	1.88	3.30	1.14
35	2.938	80	3.75	101	6.63	5.05	0.55	2.25	4.15	0.97

① Dimension shown are for AJ hubs unless otherwise specified.

Size	HP/100 RPM	Rated Torque (lb-in)	Peak O/L Torque (lb-in)	AGMA 7 Max RPM	Max Radial Load (lbs)	Weight ① (lbs)	WR^2 ① ($lb\text{-}in^2$)	Misalignment Capacity	
								Axial (+/-in)	Angular (Degrees/ Disc Pack)
5	0.48	300	600	8,500	34	1.24	0.96	0.015	
10	1.27	800	1,600	7,500	56	1.96	2.35	0.020	
15	2.5	1,575	3,150	6,700	125	2.98	4.62	0.021	
20	3.49	2,200	4,400	6,200	183	4.07	7.48	0.027	1°
25	6.03	3,800	7,600	5,500	275	7.01	20.4	0.030	
30	11	6,930	13,860	5,000	400	10.8	41.5	0.032	
35	18	11,340	22,680	4,400	600	17.2	88.3	0.042	

① Weight and WR^2 values shown are for AJ hubs at max inch bore.

STANDARD MATERIALS (CLASS A)

HUBS - CARBON STEEL
SPACER - CARBON STEEL
HARDWARE - ALLOY STEEL
DISC PACKS - STAINLESS STEEL

ORDERING

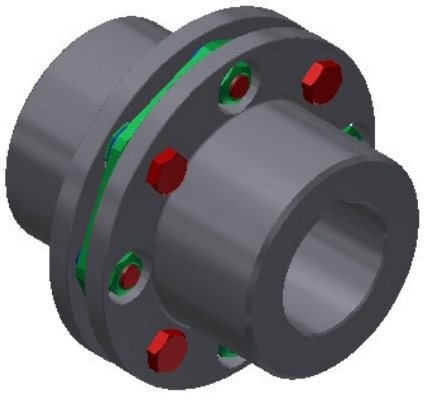
AR SERIES COUPLINGS ARE SOLD AS COMPONENTS
COUPLINGS CONSIST OF:
2 - HUBS - Example (AJ25A x 1-3/4")
1 - REPAIR KIT - Example (A25RKA)

MATERIAL / FINISH OPTIONS

CLASS A - Steel hubs, alloy steel hardware, 300 series stainless steel disc packs
CLASS B - Zinc plated steel hubs and spacer, alloy steel hardware, 300 series stainless steel disc pack
CLASS C - Zinc plated steel hubs, stainless steel hardware, 300 series stainless steel disc packs
CLASS E - 300 series stainless steel hubs, stainless steel hardware, 300 series stainless steel disc packs

Single Flex Coupling GR Series - Form-Flex™

Single Flex Short Spacing



Size	Torque Rating			Max Speed (RPM)		Max Radial Load (lbs)	Weight (lbs) ①	WR² (lb-in²) ①	Misalignment Capacity	
	HP / 100 (RPM)	Max Continuous (lb-in)	Peak Overload (lb-in)	AGMA 8	ABS. Max				Axial (+/- in)	Angular (Degrees/ Disc Pack)
311	17	11,000	22,000	8,000	13,000	360	11.0	41.5	0.014	
321	33	20,500	41,000	7,400	12,000	800	17.8	77.6	0.0145	
332	51	32,000	64,000	6,600	11,500	1,300	26.2	143	0.015	0.5°
346	73	46,000	92,000	6,100	9,000	1,300	38.1	271	0.025	
380	127	80,000	160,000	5,500	7,000	2,400	53.1	469	0.040	
412	190	120,000	240,000	5,200	6,000	2,400	72.5	935	0.040	
419	301	190,000	380,000	4,600	5,000	4,200	129.3	2092	0.050	
424	476	300,000	600,000	4,200	5,000	4,200	195.8	4936	0.050	
444	690	435,000	870,000	3,800	4,000	5,300	291.5	8422	0.055	
456	1015	640,000	1,280,000	3,600	3,500	6,700	364.0	13226	0.060	
483	1317	830,000	1,660,000	3,300	3,500	8,200	512.0	20843	0.065	0.33°
511	1904	1,200,000	2,400,000	3,100	3,000	9,800	677.2	37076	0.070	
520	3173	2,000,000	4,000,000	2,800	2,500	15,700	1208	71849	0.090	
525	3967	2,500,000	5,000,000	2,700	2,500	17,900	1473	113939	0.100	
530	4760	3,000,000	6,000,000	2,500	2,500	21,000	1752	148626	0.100	
540	6347	4,000,000	8,000,000	2,300	2,000	23,000	2662	346946	0.120	

① Weight and WR² values shown are for standard hubs at max inch bore.

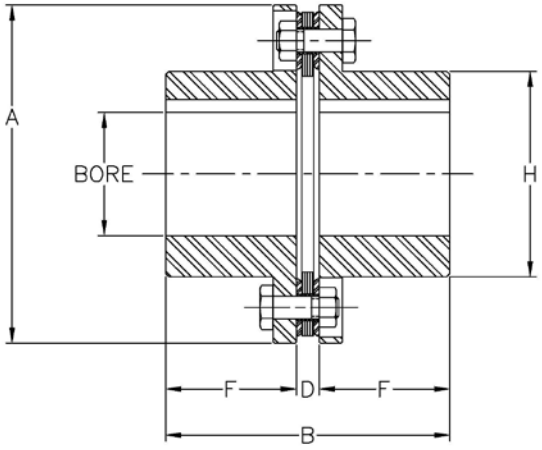
STANDARD MATERIALS

HUBS - CARBON STEEL
SPACER - CARBON STEEL
HARDWARE - ALLOY STEEL
DISC PACKS - STAINLESS STEEL

MATERIAL / FINISH OPTIONS

ZINC ELECTRO PLATING
PHOSPHATE COATING
ALLOY STEEL HUBS

Single Flex Short Spacing



Size	Max Bore						Dimensions (in)					
	Standard Hub			Oversized/Large Hub			A	B	D DBSE	F	H	
	Square Key (in)	Rect. Key (in)	Rect. Key (mm)	Square Key (in)	Rect. Key (in)	Rect. Key (mm)					Std Hub	O/S Hub
311	2.813	3.063	78	3.125	3.313	86	5.88	5.40	0.40	2.50	3.91	4.30
321	3.000	3.250	83	3.250	3.438	90	6.38	6.55	0.55	3.00	4.25	4.57
332	3.188	3.313	87	3.438	3.688	95	7.20	7.62	0.62	3.50	4.50	4.95
346	3.750	4.000	107	4.250	4.500	117	8.20	8.12	0.62	3.75	5.42	5.95
380	3.750	4.000	105	4.250	4.500	118	9.42	9.14	0.89	4.13	5.65	6.30
412	4.500	4.500	120	4.750	5.125	135	11.00	9.25	0.75	4.25	6.51	7.20
419	4.500	4.875	130	5.500	5.625	150	12.50	10.98	0.98	5.00	7.32	8.07
424	6.625	6.880	190				15.00	13.48	0.98	6.25	9.57	
444	7.000	7.375	200				16.38	15.09	1.09	7.00	10.52	
456	8.000	8.000	220				18.00	15.82	1.32	7.25	11.63	
483	8.250	8.875	234				19.44	18.39	1.39	8.50	12.56	
511	10.000	10.125	280				22.00	19.56	1.56	9.00	14.50	
520	10.375	11.000	297				24.88	25.64	1.89	11.88	16.10	
525	11.000	12.000	322				26.75	25.95	1.95	12.00	17.35	
530	11.500	12.750	338				28.00	27.64	2.14	12.75	18.35	
540	15.750	17.000	448				33.50	32.58	2.58	15.00	22.63	

ORDERING

GR SERIES COUPLINGS ARE SOLD AS COMPONENTS

COUPLINGS CONSIST OF:

2 - HUBS - Example (GH346 x 2-1/2")

1 - REPAIR KIT - Example (G346SF)

Coupling Repair Parts and Kits

Notes:
1) Single repair kits include 1 disc pack and all bolts, nuts and washers for use with 1 disc pack
2) Single hardware kits include all bolts, nuts and washers for use with 1 disc pack
3) Double repair kits include 2 disc packs and all hardware for one coupling
4) Double hardware kits include all bolt, nuts and washers for one coupling

Form-Flex™ (A Series)

Kit Type	Repair		Hardware		Repair	Hdwr	Repair	Hdwr	Disc Pack	Rough Bore Hub					
SGL/DBL	Single				Double		Double			AJ (Std)			AZ (O/S)		
Used On	AA, AP, AR, A5, A6, A7				AX		AY		All	All	All	All	All	All	All
Mat'l Class	A,B	C,E	A,B	C,E	A,B	A,B	A,B	A,B	All	A	B,C	E	A	B,C	E
5	A05RKA	***	A05HKA	***	AX05RKA	AX05HKA	AY05RKA	AY05HKA	A005-4101	AJ05RBA	AJ05RBB	***	AZ05RBA	AZ05RBB	***
10	A10RKA	***	A10HKA	***	AX10RKA	AX10HKA	AY10RKA	AY10HKA	A010-4101	AJ10RBA	AJ10RBB	***	AZ10RBA	AZ10RBB	***
15	A15RKA	A15RKE	A15HKA	A15HKE	AX15RKA	AX15HKA	AY15RKA	AY15HKA	A015-4101	AJ15RBA	AJ15RBB	AJ15RBE	AZ15RBA	AZ15RBB	AZ15RBE
20	A20RKA	A20RKE	A20HKA	A20HKE	AX20RKA	AX20HKA	AY20RKA	AY20HKA	A020-4101	AJ20RBA	AJ20RBB	AJ20RBE	AZ20RBA	AZ20RBB	AZ20RBE
25	A25RKA	A25RKE	A25HKA	A25HKE	AX25RKA	AX25HKA	AY25RKA	AY25HKA	A025-4101	AJ25RBA	AJ25RBB	AJ25RBE	AZ25RBA	AZ25RBB	AZ25RBE
30	A30RKA	A30RKE	A30HKA	A30HKE	AX30RKA	AX30HKA	***	***	A030-4101	AJ30RBA	AJ30RBB	AJ30RBE	AZ30RBA	AZ30RBB	AZ30RBE
35	A35RKA	A35RKE	A35HKA	A35HKE	AX35RKA	AX35HKA	***	***	A035-4101	AJ35RBA	AJ35RBB	AJ35RBE	AZ35RBA	AZ35RBB	AZ35RBE

Form-Flex (G Series)

Kit Type	Repair Kits		Hardware Kit	Disc Pack	Rough Bore Hub	
Used On	Double	Single	Single ①	SS	Std	Oversize
Mat'l Class	Disc Pack SS	Disc Pack SS				
311	G311-DF-SS	G311-SF-SS	G311-HK	G311-5-SS	G311-3ST	G311-3LST
321	G321-DF-SS	G321-SF-SS	G321-HK	G321-5-SS	G321-3ST	G321-3LST
332	G332-DF-SS	G332-SF-SS	G332-HK	G332-5-SS	G332-3ST	G332-3LST
346	G346-DF-SS	G346-SF-SS	G346-HK	G346-5-SS	G346-3ST	G346-3LST
380	G380-DF-SS	G380-SF-SS	G380-HK	G380-5-SS	G380-3ST	G380-3LST
412	G412-DF-SS	G412-SF-SS	G412-HK	G412-5-SS	G412-3ST	G412-3LST
419	G419-DF-SS	G419-SF-SS	G419-HK	G419-5-SS	G419-3ST	G419-3LST
424	G424-DF-SS	G424-SF-SS	G424-HK	G424-5-SS	G424-3ST	-
444	G444-DF-SS	G444-SF-SS	G444-HK	G444-5-SS	G444-3ST	-
456	G456-DF-SS	G456-SF-SS	G456-HK	G456-5-SS	G456-3ST	-
483	G483-DF-SS	G483-SF-SS	G483-HK	G483-5-SS	G483-3ST	-
511	G511-DF-SS	G511-SF-SS	G511-HK	G511-5-SS	G511-3ST	-
520	G520-DF-SS	G520-SF-SS	G520-HK	G520-5-SS	G520-3ST	-
525	G525-DF-SS	G525-SF-SS	G525-HK	G525-5-SS	G525-3ST	-
530	G530-DF-SS	G530-SF-SS	G530-HK	G530-5-SS	G530-3ST	-
540	G540-DF-SS	G540-SF-SS	G540-HK	G540-5-SS	G540-3ST	-

① Single hardware kits include all bolts, nuts and washers for use with 1 disc pack.

Form-Flex (HSH/FSH Series)

Kit Type	Repair Kits		Hardware Kit	Disc Pack	Rough Bore Hub
Cplg Size	Double	Single ①	Single ②	SS	STL
22	D22-DF-SS	D22-SF-SS	D22-BNW	D22-5-SS	D22-3ST
26	D26-DF-SS	D26-SF-SS	D26-BNW	D26-5-SS	D26-3ST
31	D31-DF-SS	D31-SF-SS	D31-BNW	D31-5-SS	D31-3ST
35	D35-DF-SS	D35-SF-SS	D35-BNW	D35-5-SS	D35-3ST
37	D37-DF-SS	D37-SF-SS	D37-BNW	D37-5-SS	D37-3ST
42	D42-DF-SS	D42-SF-SS	D42-BNW	D42-5-SS	D42-3ST
45	D45-DF-SS	D45-SF-SS	D45-BNW	D45-5-SS	D45-3ST
50	D50-DF-SS	D50-SF-SS	D50-BNW	D50-5-SS	D50-3ST
55	D55-DF-SS	D55-SF-SS	D55-BNW	D55-5-SS	D55-3ST
60	D60-DF-SS	D60-SF-SS	D60-BNW	D60-5-SS	D60-3ST
70	D70-DF-SS	D70-SF-SS	D70-BNW	D70-5-SS	D70-3ST
75	D75-DF-SS	D75-SF-SS	D75-BNW	D75-5-SS	D75-3ST
80	D80-DF-SS	D80-SF-SS	D80-BNW	D80-5-SS	D80-3ST
85	D85-DF-SS	D85-SF-SS	D85-BNW	D85-5-SS	D85-3ST
92	D92-DF-SS	D92-SF-SS	D92-BNW	D92-5-SS	D92-3ST
92HT	D92HT-DF-SS	D92HT-SF-SS	D92HT-BNW	D92HT-5-SS	D92HT-3ST

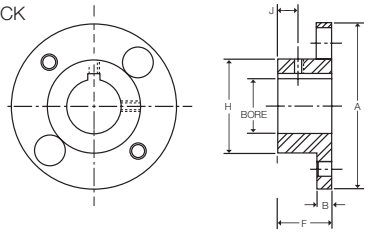
① Single repair kits include 1 disc pack and all bolts, nuts and washers for use with 1 disc pack.
② Single hardware kits include all bolts, nuts and washers for use with 1 disc pack.

Form-Flex™ A-Series Hub Options

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.

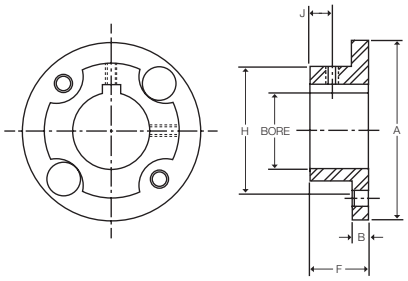
AJ STANDARD HUBS - PROVIDED WITH STRAIGHT BORE AND KEYWAY - SOLID HUBS AVAILABLE FROM STOCK

Size	Max Bore (in)	Max Bore (mm)	A	B	F	H	J	Std Set Screw Size
05	0.875	22	2.65	0.25	1.00	1.30	0.38	#10-24 UNC
10	1.250	33	3.19	0.30	1.00	1.80	0.38	1/4-20 UNC
15	1.375	36	3.65	0.35	1.13	2.00	0.41	1/4-20 UNC
20	1.688	46	4.08	0.35	1.32	2.40	0.50	1/4-20 UNC
25	2.000	53	4.95	0.45	1.62	2.80	0.63	5/16-18 UNC
30	2.380	63	5.63	0.55	1.88	3.30	0.69	5/16-18 UNC
35	2.938	80	6.63	0.55	2.25	4.15	0.88	1/2-13 UNC



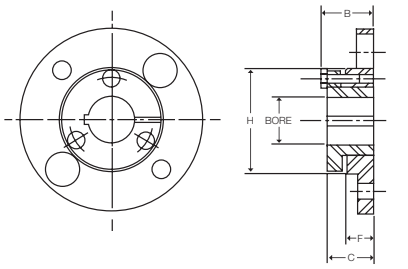
AZ OVERSIZE BORE HUBS - PROVIDED WITH STRAIGHT BORE AND KEYWAY

Size	Max Bore (in)	Max Bore (mm)	A	B	F	H	J	Std Set Screw Size
05	1.188	30	2.65	0.25	1.00	1.88	0.38	#10-24 UNC
10	1.625	43	3.19	0.30	1.00	2.37	0.38	1/4-20 UNC
15	1.750	48	3.65	0.35	1.13	2.69	0.41	1/4-20 UNC
20	2.125	58	4.08	0.35	1.32	3.13	0.50	1/4-20 UNC
25	2.563	68	4.95	0.45	1.62	3.75	0.63	5/16-18 UNC
30	2.875	79	5.63	0.55	1.88	4.25	0.69	5/16-18 UNC
35	3.750	101	6.63	0.55	2.25	5.25	0.88	1/2-13 UNC



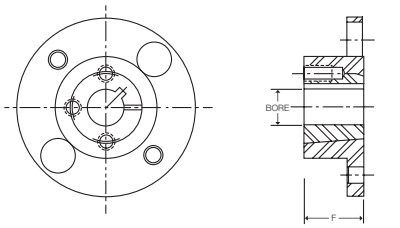
QD BORED HUBS - MATERIAL CLASS A OR B ONLY

Size	Bush Size	Bush TQ. (lb-in)	Max Bore (in)	Max Bore (mm)	B	C	F	H	Bolt Size
15	JA	1000	1.250	28	1.17	1.00	0.56	2.00	#10-24 UNC
20	JA	1000	1.250	28	1.17	1.00	0.56	2.40	#10-24 UNC
25	SH	3500	1.688	35	1.50	1.25	0.75	2.80	1/4-20 UNC
30	SD	5000	2.000	42	2.06	1.81	1.25	3.30	1/4-20 UNC
35	SK	7000	2.625	55	2.19	1.87	1.25	4.15	5/16-18 UNC
40	SF	11000	2.938	65	2.38	2.06	1.37	4.65	3/8-16 UNC



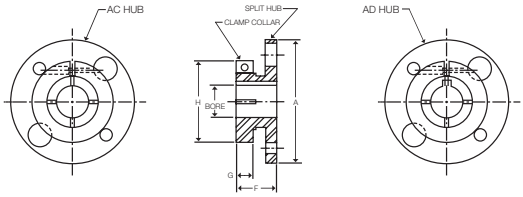
HUBS FOR TAPER LOCK BUSHINGS - AVAILABLE MTO ONLY

Size	Regular Mount					Reverse Mount				
	Bush Size	Bush TQ. (lb-in)	Max Bore (in)	Max Bore (mm)	F (in)	Bush Size	Bush TQ. (lb-in)	Max Bore (in)	Max Bore (mm)	F (in)
15	N/A	-	-	-	-	1108	1300	1.12	25	0.87
20	1108	1300	1.12	25	0.87	1215	3550	1.25	32	1.50
25	1215	3550	1.25	32	1.50	1310	3850	1.37	35	1.00
30	1310	3850	1.37	35	1.00	1615	4300	1.62	42	1.50
35	2012	7150	2.00	48	1.25	2517	11600	2.50	65	1.75
40	2525	11300	2.50	65	2.50	2525	11300	2.50	65	2.50



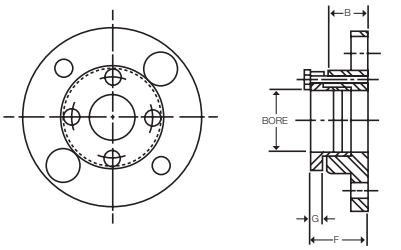
AC/AD CLAMPING HUBS - AC HUBS PROVIDED WITHOUT KEYWAY - AD HUBS PROVIDED WITH KEYWAY - MATERIAL CLASS A OR B ONLY

Size	Max Bore AC (in)	Max Bore AC (mm)	Max Bore AD (in)	Max Bore AD (mm)	A	F	G	H	Clamp Screw Size
5	1.00	25	0.87	20	2.65	1.13	0.50	2.06	1/4-20 UNC
10	1.00	25	0.87	20	3.19	1.18	0.50	2.06	1/4-20 UNC
	1.50	38	1.25	30		1.36	0.69	2.75	5/16-18 UNC
15	1.00	25	0.87	20	3.65	1.27	0.50	2.06	1/4-20 UNC
	1.75	44	1.37	24		1.46	0.69	3.00	5/16-18 UNC
20	1.31	33	1.00	24	4.08	1.32	0.55	2.38	1/4-20 UNC
	2.13	53	1.62	42		1.52	0.75	3.50	3/8-16 UNC
25	2.13	53	1.62	42	4.95	1.62	0.64	3.50	5/16-18 UNC
	2.50	63	1.87	50		1.86	0.88	4.00	3/8-16 UNC



AL LOCK ELEMENT HUBS - THESE HUBS USE RINGFEDER TAPERED LOCKING ELEMENTS - MATERIAL CLASS A OR B ONLY

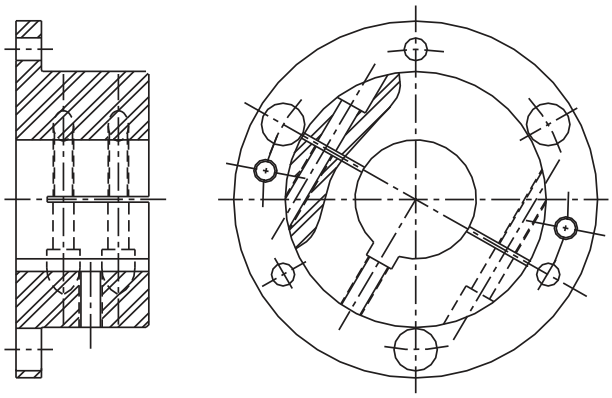
Size	Hub Type	Bore Size Min (in)	Bore Size Min (mm)	Bore Size Max (in)	Bore Size Max (mm)	B	F	G	Screw Size
5	AJ	0.24	6	0.51	13	1.00	1.32	0.32	#10-32 UNF
	AZ	0.55	14	0.75	19	1.00	1.42	0.42	1/4-28 UNF
10	AJ	0.47	12	0.71	18	1.00	1.42	0.42	1/4-28 UNF
	AZ	0.75	19	1.18	30	1.00	1.42	0.42	1/4-28 UNF
15	AJ	0.47	12	0.87	22	1.13	1.55	0.42	1/4-28 UNF
	AZ	0.94	24	1.38	35	1.13	1.55	0.42	1/4-28 UNF
20	AJ	0.87	22	1.18	30	1.32	1.78	0.42	1/4-28 UNF
	AZ	1.26	32	1.65	42	1.32	1.83	0.51	5/16-24 UNF
25	AJ	0.87	22	1.26	32	1.63	2.05	0.42	1/4-28 UNF
	AZ	1.38	35	1.97	50	1.63	2.23	0.60	3/8-24 UNF



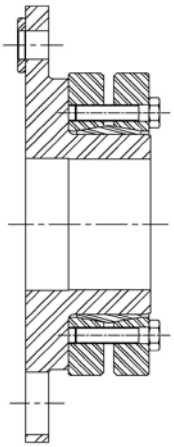
NOTE: AC and AL Hubs do not carry full torque capacity. Please consult engineering.

Form-Flex™ G-Series Hub Options

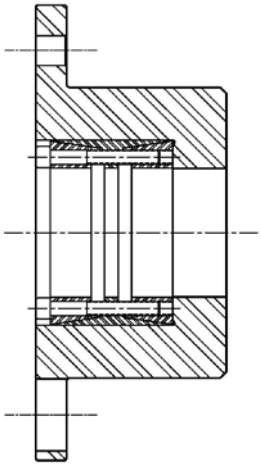
CLAMP HUB
PROVIDED WITH STRAIGHT BORE AND KEYWAY



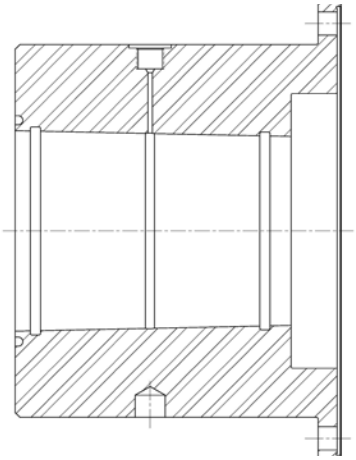
EXTERNAL LOCKING ELEMENT
USED WITH KEYLESS SHAFTS



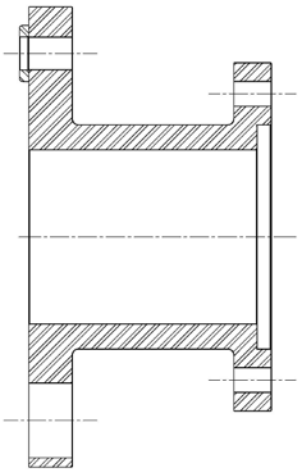
INTERNAL LOCKING ELEMENT
USED WITH KEYLESS SHAFTS



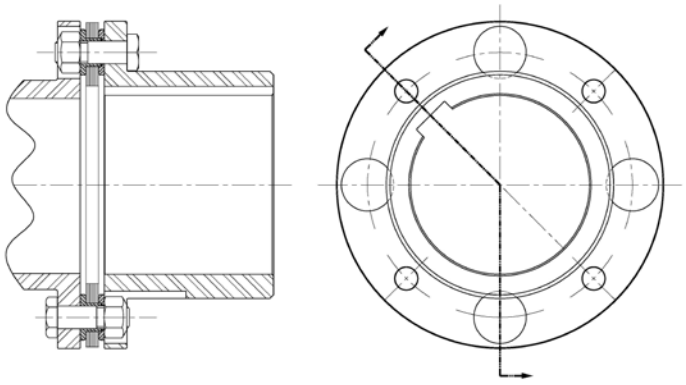
TAPER BORE WITH HYDRAULIC REMOVAL
USED WITH KEYLESS TAPERED SHAFTS



SPECIAL FLANGE ADAPTERS
DESIGNED TO MATE WITH ANY CUSTOM FLANGE

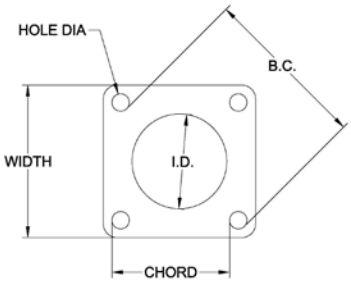


OVERSIZE HUB DESIGN
FOR INCREASED BORE CAPACITY

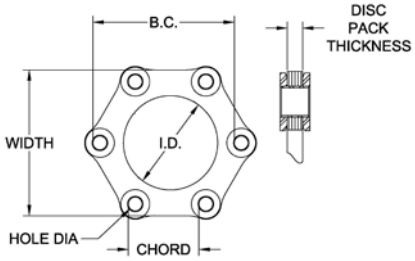


Disc, Bolt Thread and Tool Size Identification Chart

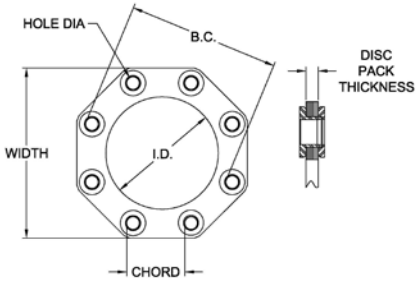
Form-Flex™ A-Series



Form-Flex G-Series Sizes 311-380



Form-Flex G-Series Sizes 340-540



Coupling Series	Disc Size	Disc Dimensions (in)						Bolt				Nut	
		Width/ OD	ID	Hole Dia.	B.C. Dia.	Chord	Disc Pack Thickness	Thread Dia. (in)	Thread Pitch	Thread Designation	HEX WAF (in)	HEX WAF (in)	Wrench Torque (lb-ft)
Form-Flex A-Series	5	1.83	1.00	0.25	1.88	1.31	0.06	0.250	28	1/4-28	0.438	0.438	8
	10	2.19	1.17	0.25	2.37	1.69	0.09	0.250	28	1/4-28	0.438	0.438	8
	15	2.54	1.28	0.31	2.69	1.88	0.12	0.313	24	5/16-24	0.500	0.500	17
	20	2.84	1.65	0.31	3.12	2.19	0.14	0.313	24	5/16-24	0.500	0.500	17
	25	3.52	1.78	0.44	3.75	2.63	0.15	0.438	20	7/16-20	0.625	0.625	40
	30	4.01	2.01	0.50	4.25	3.00	0.21	0.500	20	1/2-20	0.750	0.750	58
	35	4.71	2.71	0.50	5.25	3.69	0.27	0.500	20	1/2-20	0.750	0.750	58
Form-Flex G-Series	311	4.78	3.58	0.39	4.86	2.44	0.20	0.313	24	5/16-24	0.500	0.500	22
	321	5.38	3.72	0.51	5.25	2.63	0.25	0.438	20	7/16-20	0.625	0.688	55
	332	6.00	3.87	0.64	5.81	2.88	0.32	0.563	18	9/16-18	0.813	0.813	120
	346	6.93	4.75	0.64	6.81	3.38	0.32	0.563	18	9/16-18	0.813	0.813	120
	380	8.05	5.06	0.87	7.48	3.75	0.39	0.750	16	3/4-16	1.125	1.125	288
	340	7.50	4.91	0.63	6.75	2.56	0.24	0.500	20	1/2-20	0.875	0.875	75
	412	9.61	6.10	1.00	8.50	3.25	0.39	0.750	16	3/4-16	1.250	1.250	250
	419	11.01	7.00	1.14	9.75	3.75	0.50	1.000	14	1-14	1.625	1.625	450
	424	13.49	8.89	1.20	12.01	4.63	0.50	1.000	14	1-14	1.625	1.625	450
	444	15.06	9.60	1.44	13.19	5.06	0.57	1.125	12	1 1/8-12	1.813	1.813	650
	456	16.57	10.66	1.56	14.57	5.56	0.69	1.250	12	1 1/4-12	2.000	2.000	830
	483	17.90	11.54	1.67	15.75	6.00	0.77	1.375	12	1 3/8-12	2.188	2.188	1,000
	511	20.35	13.50	1.74	18.06	6.94	0.93	1.500	12	1 1/2-12	2.375	2.364	1,400
	520	23.19	14.59	2.21	20.20	7.75	1.14	1.875	12	1 7/8-12	3.000	0.438	108
	525	24.95	15.64	2.35	21.70	8.31	1.20	2.000	12	2-12	3.125	0.438	124
	530	26.12	16.34	2.50	22.70	8.69	1.26	2.125	12	2 1/8-12	3.375	0.438	141
	540	31.21	21.15	2.65	28.05	10.75	1.58	2.250	10	2 1/4-12	3.750	0.563	196

Application Data Sheet

Project Ref: _____

Company: _____ Date: _____

Contact: _____ Email: _____

Replacing: _____ Phone #: _____

SECTION I - DRIVER Electric Motor [ ] ; Engine [ ] - # Cylinders _____ ; Turbine [ ] ; Other _____

HP: _____ KW: _____ Normal Torque: _____Lb-in[ ] Nm[ ]

Rated Speed: _____ Max Torque: _____Lb-in[ ] Nm[ ]

Operating Speed: _____ Breakdown Torque: _____Lb-in[ ] Nm[ ]

SECTION II - DRIVEN Description: _____

_____

Load Application: Non-Pulsating [ ] Medium Pulsating [ ] Heavy Pulsating [ ] Smooth [ ] Light Shock [ ] Heavy Shock [ ]

SECTION III - COUPLING APPLICATION Min Service Factor: _____

Temperature Range: _____ to _____ °C [ ] or °F [ ] Hydraulic Removal: Yes [ ] No [ ]

Specification: API671 [ ] Edition _____ ; API610 [ ] Edition _____ ; Other _____

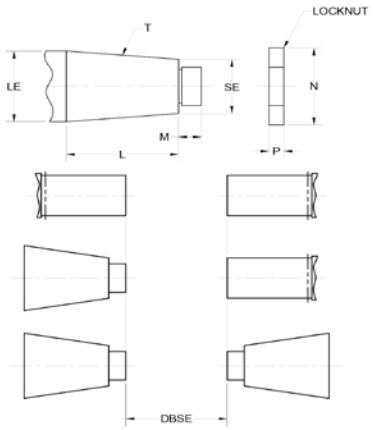
Balance: Cplg [ ] Hubs [ ] Spacer [ ] Balance Specification _____

SECTION IV - DIMENSIONAL DATA Distance Between Shaft Ends (DBSE): _____ IN [ ] MM [ ]

Taper Shaft & Keyway Data

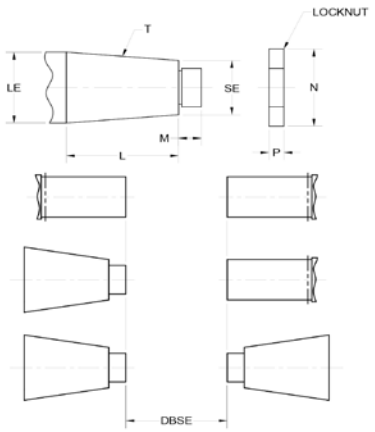
	Driver	Driven
Shaft Dia (Straight):	_____	
Shaft Dia L.E. (Taper):	_____	_____
Taper Ratio	_____	_____
Keyway Size:	Width _____ Depth_____	Width _____ Depth_____
KW Depth Across Bore:	_____	_____

DRIVER TAPER SHAFT DATA



LE _____
SE _____
L _____
T _____
M _____
N _____
P _____

DRIVEN TAPER SHAFT DATA



LE _____
SE _____
L _____
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M _____
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Additional Comments: _____

_____

_____

_____

_____

_____

_____

Please attach a separate sheet with drawing, if needed.

Notes

TB WOOD'S™

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