



Flexible Disc Couplings

TB WOOD'S FORM-FLEX™



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Product Features and Options

	TB Wood's™ Form-Flex				
Features	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 7
Dynamic Balance:	Optional	Per TBW Commer- cial Standard	Optional	Per TBW Commer- cial Standard	Optional

(1) Stainless Steel is standard. Alloy Steel is optional.

Form-Flex™ Disc Coupling Advantages

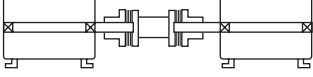
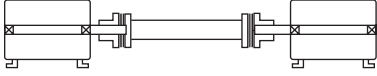
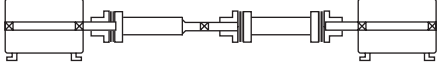
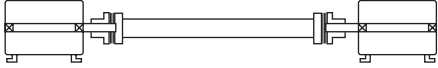
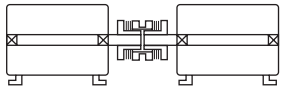
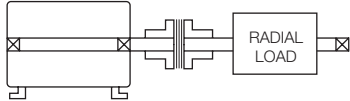
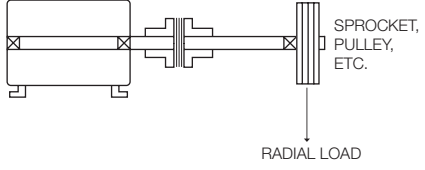
- Over 40 years experience in flexible disc couplings
- All metal construction
- No lubrication
- No moving parts
- Long life
- High torsional stiffness
- Precise positioning - zero backlash

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. Both steel and TrueTube composite tubing options are available. 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, B5C
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

Coupling Selection Process

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

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

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

OR

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

OR

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

Calculate kW/100 RPM or Design Torque (Nm)

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

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

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

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

Coupling Selection Guide

- 1) Consult factory for applications in shaded areas.
- 2) Torque ratings may vary by coupling series.
- 3) Use the 1.0 service factor column if a service factor was used in the HP/100 RPM kW/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	8	
	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		
	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		

Standard Bore Tolerances

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	+0.008 / -0.003	j6	+0.016 / +0.034	F7	-0.015 / -0.004	M6
19	30	+0.009 / -0.004		+0.020 / +0.041	F7	-0.017 / -0.004	M6
32	50	+0.018 / +0.002	k6	+0.025 / +0.050	F7	-0.013 / +0.003	K6
55	80	+0.030 / +0.011	m6	+0.030 / +0.060	F7	-0.021 / +0.009	K7
85	100	+0.035 / +0.013		+0.036 / +0.071	F7	-0.035 / +0.000	M7
110	120	+0.035 / +0.013				-0.059 / -0.024	P7
125	180	+0.040 / +0.015		+0.043 / +0.083	F7	-0.068 / -0.028	P7
190	200	+0.046 / +0.017		+0.050 / +0.096	F7	-0.079 / -0.033	P7
210	225					-0.109 / -0.063	R7
230	250					-0.113 / -0.067	R7
260	280	+0.052 / +0.020		+0.056 / +0.108	F7	-0.126 / -0.074	R7

Reference AGMA 9112-A04

Recommended Hub Keyway Dimensions (mm)

Nominal Bore Range		Nominal Key Size	Hub Keyway	
Over	To (Incl.)		Width	Depth
			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

Imperial Standard Bore and Keyway Info

Recommended Bore Tolerance for Imperial Shafts (Inches)

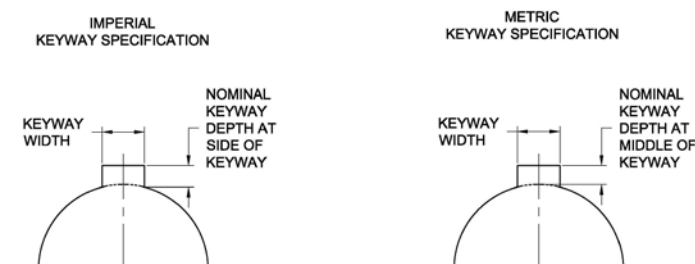
Nominal Shaft Range		Shaft Tol.	Interference Fit Bore Tol.	Clearance Fit Bore Tol.
Over	To (Incl.)			
.4375	1.5	+0.0000 / -0.0005	-0.0005 / -0.0010	+0.0010 / -0.0000
1.5	2	+0.0000 / -0.0010	-0.0010 / -0.0020	+0.0010 / -0.0000
2	3		-0.0010 / -0.0020	+0.0015 / -0.0000
3	4		-0.0015 / -0.0030	
4	5		-0.0020 / -0.0035	
5	7		-0.0025 / -0.0040	
7	8		-0.0030 / -0.0050	N/A
8	9		-0.0035 / -0.0055	N/A
9	10		-0.0040 / -0.0060	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



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.

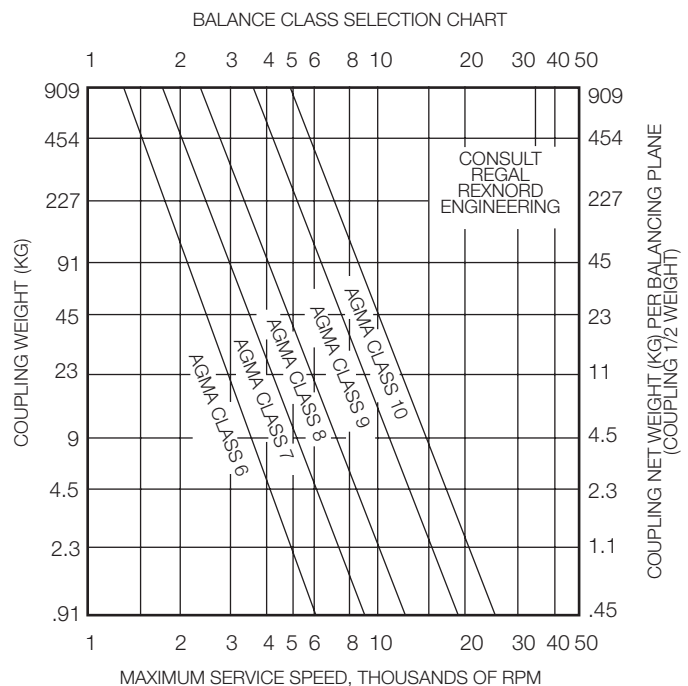
Certain tables and data in this catalog were extracted from the reference AGMA standards with the permission of the publisher, the American Gear Manufacturers Associations, 1901 North Meyer Drive, Arlington, VA 22209.

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.

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

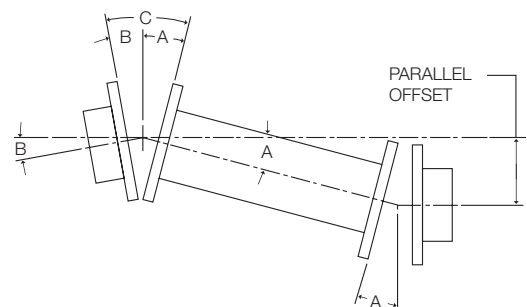
- 1) Shaft End Deflection: Machines having flexible shaft extensions are relatively sensitive to coupling unbalance.
- 2) Bearing Load Due to Coupling Weight Relative to Total Bearing Load: Machines having lightly loaded bearings, bearings that are primarily loaded by the weight of the coupling or other 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

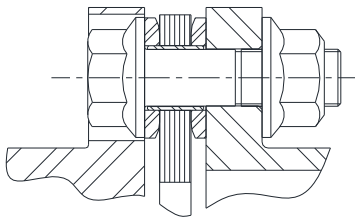
Double flexing metal disc couplings may be used to accommodate angular, parallel and axial misalignment. Single flexing couplings may only be used to accommodate angular and axial misalignment. A metal disc type coupling uses a double hinge effect through two flexible discs and the spacer to compensate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



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 Flex Pack	Unitized Flex Pack
ATEX Group II/ Cat 3	ATEX Group II/ Cat 3
Low to Moderate Speeds	Low to Moderate Speeds

DISC PACK DESIGN COMPARISON

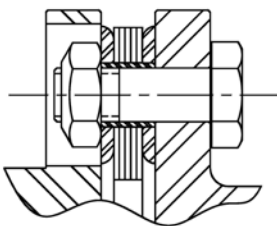
Form-Flex G-Series
Sizes 311-380



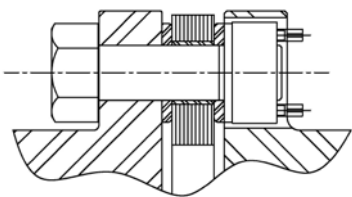
UNITIZED

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

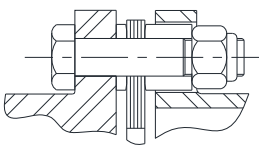
Form-Flex G-Series
Sizes 340 & 412-511



Form-Flex G-Series
Sizes 517-540



Form-Flex A-Series
Sizes 5-35

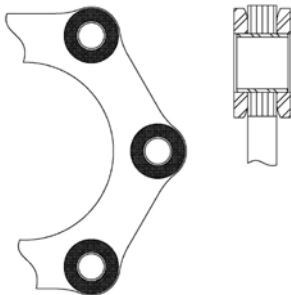


NON-UNITIZED

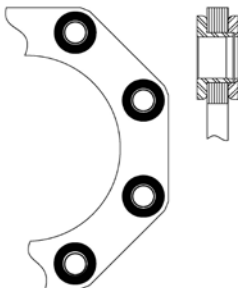
- Disc pack creates a bending moment on bolt
- High bolt bending stress
- Torque transmitted through shear and friction
- Lower torque capacity

UNITIZED DISC DESIGNS

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

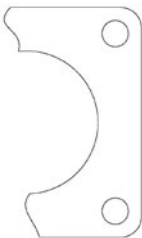


Form-Flex
G-Series, Sizes 340 & 412-540



NON-UNITIZED DISC DESIGNS

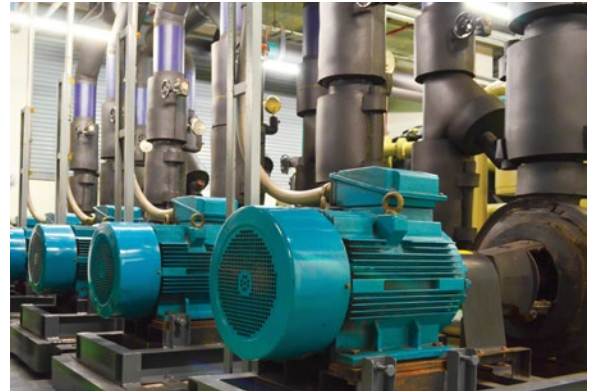
Form-Flex
A-Series sizes 5-35



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 (see pages 27 & 28 for hub design options)



TYPICAL APPLICATIONS

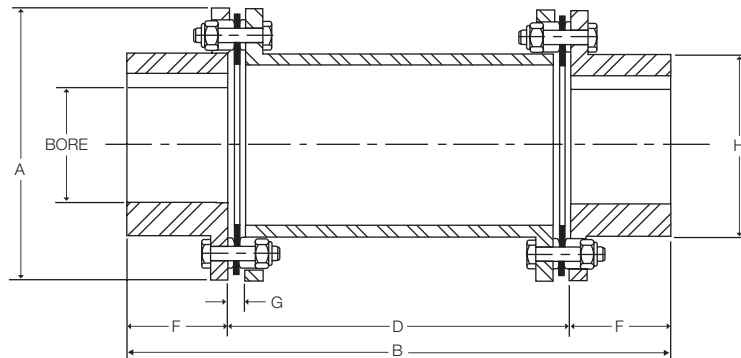
- Pumps
- Centrifugal and Screw Compressors
- Fans and Blowers
- Mixers
- Turbo Compressors

SPECIAL APPLICATIONS

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

Spacer Coupling AP Series - Form-Flex™

Double Flex Spacer



COUPLING CAN BE SUPPLIED TO API610 11TH EDITION

Size	Max Bore				Dimensions (mm)								
	AJ		AZ		A	B		D DBSE		F	G	H	J
	(mm)	(in)	(mm)	(in)		Min	Max	Min	Max				
5	22	0.875	30	1.19	67.3	94.5	176.2	43.7	125.4	25.4	6.1	33.0	13.7
10	33	1.250	43	1.63	81.0	103.1	177.8	52.3	127.0	25.4	6.9	45.7	14.2
15	36	1.375	48	1.75	92.7	118.6	225.7	61.2	168.3	28.7	8.1	50.8	22.4
20	46	1.688	58	2.13	103.6	127.5	235.3	60.5	168.3	33.5	8.6	61.0	20.1
25	53	2.000	68	2.56	125.7	156.5	333.1	74.2	250.8	41.1	11.4	71.1	25.4
30	63	2.380	79	2.88	143.0	192.3	347.9	96.8	252.4	47.8	11.9	83.8	29.0
35	80	2.938	101	3.75	168.4	223.8	446.1	109.5	331.8	57.2	14.0	105.4	24.6

Dimensions are shown for standard AJ hubs unless otherwise specified.

Size	kW/100 RPM	Rated Torque (Nm)	Peak O/L Torque (Nm)	AGMA 7 Max RPM	Weight (kg) (1)		WR ² (kg-cm ²) (1)		Misalignment Capacity	
					at D Min	Add Per cm of D	at D Min	Add Per cm of D	Axial (+/-mm)	Angular (Degrees/Disc Pack)
5	0.36	34	68	8,500	1.05	0.025	5.47	0.058	0.076	1°
10	0.95	90	181	7,500	1.65	0.039	13.11	0.127	1.01	
15	1.87	178	356	6,700	2.47	0.047	25.93	0.219	1.06	
20	2.60	249	497	6,200	3.16	0.057	40.38	0.392	1.39	
25	4.50	429	859	5,500	5.77	0.073	113.5	0.714	1.52	
30	8.21	783	1566	5,000	8.64	0.082	227.4	1.060	1.65	
35	13.4	1281	2562	4,400	12.55	0.113	456.5	2.638	2.16	

1) Weight and WR² 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

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)

ORDERING

AP SERIES COUPLINGS ARE SOLD AS COMPONENTS

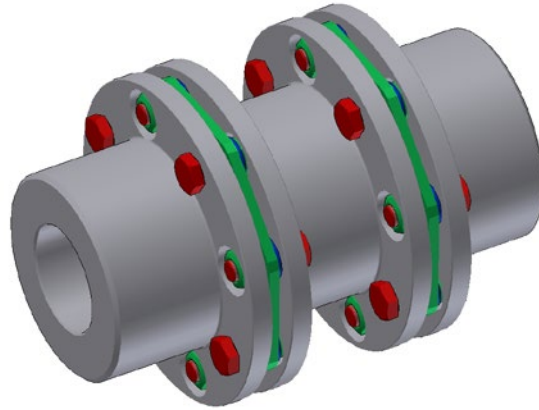
COUPLINGS CONSIST OF:

2 - HUBS - Example (AJ25A x 45 mm)

1 - SPACER SUB-ASSEMBLY - Example for DBSE = 120 mm (AP25A120MM)

Spacer Coupling GP Series - Form-Flex™

Double Flex Spacer



Size	Torque Rating			Max Speed (RPM)		Weight (kg) (1)		WR ² (kg-m ²) (1)		Misalignment Capacity	
	kW / 100 (RPM)	Max Continuous (Nm)	Peak Overload (Nm)	AGMA 8	ABS. Max	at D Min	Add Per cm of D	at D Min	Add Per cm of D	Axial (+/- mm)	Angular (Degrees/ Disc Pack)
311	13.0	1,243	2,486	5,400	13,000	7.36	0.11	0.020	0.00024	0.711	0.5°
321	24.3	2,316	4,632	4,900	12,000	11.70	0.12	0.036	0.00029	0.737	
332	37.9	3,615	7,231	4,400	11,500	18.30	0.17	0.071	0.00049	0.762	
346	54.4	5,197	10,394	4,100	9,000	24.74	0.18	0.126	0.00080	1.27	
380	94.7	9,039	18,077	3,800	7,000	36.05	0.21	0.232	0.00101	2.03	
412	142	13,558	27,116	3,500	6,000	50.03	0.26	0.470	0.00153	2.03	0.33°
419	225	21,467	42,933	3,000	5,000	89.92	0.42	1.071	0.00322	2.54	
424	355	33,894	67,789	2,750	5,000	130.7	0.55	2.378	0.00720	2.54	
444	515	49,147	98,294	2,500	4,000	187.9	0.60	3.976	0.01003	2.79	
456	758	72,308	144,616	2,350	3,500	244.8	0.85	6.408	0.01538	3.05	
483	982	93,775	187,549	2,200	3,500	330.6	0.96	9.848	0.02247	3.30	
511	1420	135,578	271,156	2,050	3,000	444.7	1.21	17.582	0.03575	3.56	
520	2367	225,963	451,926	1,750	2,500	796	1.81	33.65	0.06756	4.57	
525	2959	282,454	564,908	1,700	2,500	960	1.98	54.42	0.08784	5.08	
530	3551	338,945	677,890	1,600	2,500	1151	2.76	71.22	0.13373	5.08	
540	4735	451,926	903,853	1,450	2,000	1741	3.44	163.27	0.25894	6.10	

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

DISC PACK - ALLOY STEEL (For cost reduction, available for sizes 412 to 540)

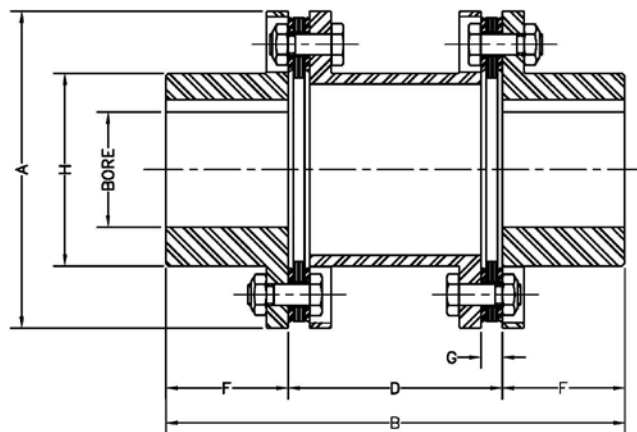
ZINC ELECTRO PLATING

ZINC PHOSPHATE COATING

ALLOY STEEL HUBS

Spacer Coupling GP Series - Form-Flex™

Double Flex Spacer



COUPLING CAN BE SUPPLIED
TO API610 11TH EDITION

Size	Max Bore						Common Coupling Dimensions (mm)								
	Standard Hub			Oversized/Large Hub			A	B		D DBSE		F	G	H	
	Rect. Key (mm)	Rect. Key (in)	Square Key (in)	Rect. Key (mm)	Rect. Key (in)	Square Key (in)		Min	Max	Min	Max			Std Hub	O/S Hub
311	78	3.063	2.813	86	3.313	3.125	149.4	204.8	450.9	77.8	323.9	63.5	10.2	99.2	109.3
321	83	3.250	3.000	90	3.438	3.250	162.1	257.2	484.2	104.8	331.8	76.2	14.0	108.0	116.1
332	87	3.313	3.188	95	3.688	3.438	182.9	304.8	487.4	127.0	335.0	88.9	15.5	114.3	125.6
346	107	4.000	3.750	117	4.500	4.250	208.3	317.5	639.8	127.0	487.4	95.3	15.6	137.7	151.0
380	105	4.000	3.750	118	4.500	4.250	239.3	381.0	711.2	171.5	501.7	104.8	22.6	143.5	160.0
412	120	4.500	4.500	135	5.125	4.750	279.4	360.4	709.6	144.5	493.7	108.0	18.9	165.4	182.8
419	130	4.875	4.500	150	5.625	5.500	317.5	449.3	760.4	195.3	506.4	127.0	24.9	185.9	205.0
424	190	6.880	6.625				381.0	512.8	823.9	195.3	506.4	158.8	24.9	243.1	
444	200	7.375	7.000				415.9	577.9	866.8	222.3	511.2	177.8	27.7	267.2	
456	220	8.000	8.000				457.2	617.6	892.2	249.3	523.9	184.2	33.5	295.4	
483	234	8.875	8.250				493.7	703.3	958.9	271.5	527.1	215.9	35.3	319.1	
511	280	10.125	10.000				558.8	754.1	992.2	296.9	535.0	228.6	39.6	368.3	
520	297	11.000	10.375				631.8	977.9	1155.7	374.7	552.5	301.6	48.0	408.9	
525	322	12.000	11.000				679.5	1000.1	1165.2	390.5	555.6	304.8	49.5	440.7	
530	338	12.750	11.500				711.2	1063.6	1212.9	415.9	565.2	323.9	54.2	466.1	
540	448	17.000	15.750				850.9	1244.6	1374.8	482.6	612.8	381.0	65.4	574.7	

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 or composite tube 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

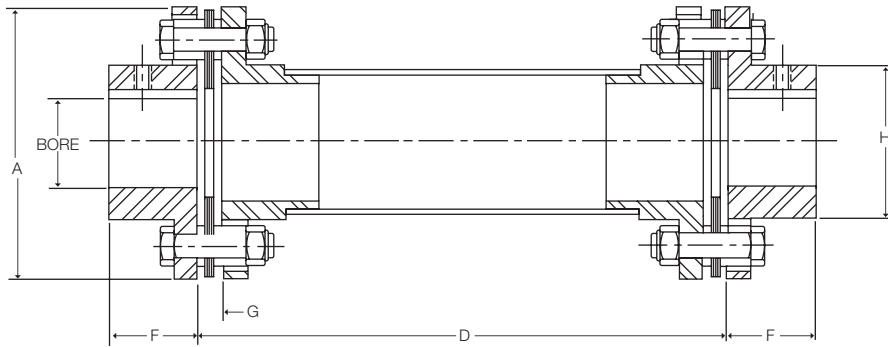
- A5/G5 - Welded Steel Tube
- A6/G6 - Welded Steel Tube - Vertical
- A7/G7 - Welded Steel Tube - Semi-Floating Spacer

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



Floating Shaft Spacer Coupling A5 Series - Form-Flex™

Double Flex Floating Shaft



Size	Max Bore				Dimensions (mm)					Max D (mm) for RPM Shown					
	AJ		AZ		A	D Min	F	G	H	1800	1500	1200	900	750	600
	(mm)	(in)	(mm)	(in)											
5	22	0.875	30	1.19	67.3	125.5	25.4	6.1	33.0	1295	1422	1575	1803	1981	2210
10	33	1.250	43	1.63	81.0	127.0	25.4	6.9	45.7	1575	1753	1930	2235	2438	2718
15	36	1.375	48	1.75	92.7	168.4	28.7	8.1	50.8	1626	1803	2007	2311	2515	2819
20	46	1.688	58	2.13	103.6	168.4	33.5	8.6	61.0	1854	2057	2286	2616	2870	3200
25	53	2.000	68	2.56	125.7	251.0	41.1	11.4	71.1	2007	2210	2464	2845	3099	3480
30	63	2.380	79	2.88	143.0	252.5	47.8	11.9	83.8	2159	2388	2591	3048	3353	3734
35	80	2.938	101	3.75	168.4	331.7	57.2	14.0	105.4	2464	2718	3023	3480	3810	4267

Dimensions are shown for standard AJ hubs unless otherwise specified.

Size	kW/100 RPM	Rated Torque (Nm)	Peak O/L Torque (Nm)	Weight (kg) (1)		WR ² (kg-cm ²) (1)		Misalignment Capacity	
				at D min	Add Per cm of D	at D min	Add Per cm of D	Axial (+/-mm)	Angular (Degrees/Disc Pack)
5	0.36	34	68	1.23	0.020	5.65	0.035	0.76	1°
10	0.95	90	181	1.88	0.018	14.13	0.081	1.01	
15	1.87	178	356	2.79	0.018	27.39	0.081	1.06	
20	2.60	249	497	3.95	0.038	44.95	0.253	1.39	
25	4.50	429	859	6.81	0.036	123.1	0.334	1.52	
30	8.21	783	1566	10.35	0.052	248.7	0.645	1.65	
35	13.4	1281	2562	14.55	0.072	499.9	1.521	2.16	

1) Weight and WR² 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) (kg)		WR ² (1) (kg-m ²)		Misalignment Capacity	
	kW / 100 (RPM)	Max Continuous (Nm)	Peak Overload (Nm)	at D Min	Add Per cm of D	at D Min	Add Per cm of D	Axial (+/- mm)	Angular (Degrees/ Disc Pack)
311	13.0	1,243	2,486	0.18	0.07	0.025	0.00015	0.711	0.5°
321	24.3	2,316	4,632	0.20	0.08	0.043	0.00022	0.737	
332	37.9	3,615	7,231	0.21	0.08	0.079	0.00026	0.762	
346	54.4	5,197	10,394	0.50	0.20	0.166	0.00080	1.27	
380	94.7	9,039	18,077	0.53	0.21	0.276	0.00093	2.03	
412	142	13,558	27,116	0.93	0.37	0.577	0.00221	2.03	0.33°
419	225	21,467	42,933	1.00	0.40	1.211	0.00279	2.54	
424	355	33,894	67,789	1.38	0.54	2.767	0.00730	2.54	
444	515	49,147	98,294	1.54	0.60	4.571	0.00997	2.79	
456	758	72,308	144,616	2.22	0.88	7.198	0.01704	3.05	
483	982	93,775	187,549	2.32	0.91	11.112	0.01947	3.30	
511	1420	135,578	271,156	2.32	0.91	18.801	0.01947	3.56	
520	2367	225,963	451,926	CONSULT REGAL REXNORD™ ENGINEERING				4.57	
525	2959	282,454	564,908					5.08	
530	3551	338,945	677,890					5.08	
540	4735	451,926	903,853					6.10	

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

DISC PACK - ALLOY STEEL (for cost reduction, only available on sizes 412 to 540)

ZINC ELECTRO PLATING

ZINC PHOSPHATE COATING

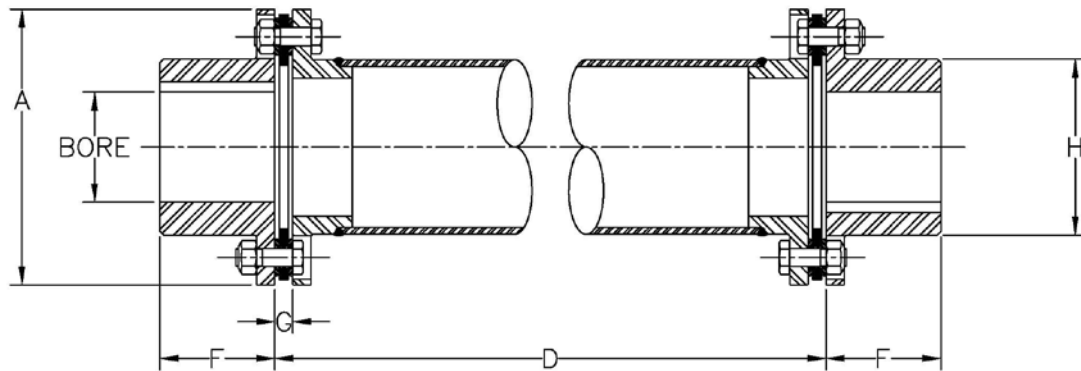
ALLOY STEEL HUBS

DESIGN VARIATIONS

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

Floating Shaft Spacer Coupling G5 Series - Form-Flex™

Double Flex Floating Shaft



Size	Max Bore						Common Coupling Dimensions (mm)								Max D (mm) for RPM Shown					
	Standard Hub			Oversized/Large Hub			A	D Min	F	G	H		Tube		1800	1500	1200	900	750	600
	Rect. Key (mm)	Rect. Key (in)	Square Key (in)	Rect. Key (mm)	Rect. Key (in)	Square Key (in)					Std Hub	O/S Hub	OD	ID						
311	78	3.063	2.813	86	3.313	3.125	149.4	323.9	63.5	10.2	99.2	109.3	92.2	86.1	2388	2616	2946	3404	3708	4166
321	83	3.250	3.000	90	3.438	3.250	162.1	331.8	76.2	14.0	108.0	116.1	101.6	95.5	2565	2794	3150	3632	3962	4445
332	87	3.313	3.188	95	3.688	3.438	182.9	335.0	88.9	15.5	114.3	125.6	108.0	101.9	2642	2896	3226	3734	4089	4572
346	107	4.000	3.750	117	4.500	4.250	208.3	487.4	95.3	15.6	137.7	151.0	133.4	120.7	2819	3099	3454	3988	4369	4877
380	105	4.000	3.750	118	4.500	4.250	239.3	501.7	104.8	22.6	143.5	160.0	139.7	127.0	2896	3175	3556	4089	4496	5004
412	120	4.500	4.500	135	5.125	4.750	279.4	493.7	108.0	18.9	165.4	182.8	165.1	146.1	3124	3429	3835	4420	4851	5410
419	130	4.875	4.500	150	5.625	5.500	317.5	506.4	127.0	24.9	185.9	205.0	177.8	158.8	3251	3556	3988	4597	5029	5639
424	190	6.880	6.625				381.0	506.4	158.8	24.9	243.1		241.3	222.3	3810	4166	4674	5385	5918	6604
444	200	7.375	7.000				415.9	511.2	177.8	27.7	267.2		266.7	247.7	4013	4394	4928	5690	6223	6960
456	220	8.000	8.000				457.2	523.9	184.2	33.4	295.4		292.1	266.7	4191	4597	5131	5918	6502	7264
483	234	8.875	8.250				493.7	527.1	215.9	35.3	319.1		304.8	279.4	4267	4674	5232	6045	6629	7417
511	280	10.125	10.000				558.8	535.0	228.6	39.5	368.3		304.8	279.4	4267	4674	5232	6045	6629	7417
520	297	11.000	10.375				631.8	552.5	301.6	48.0	408.9	CONSULT REGAL REXNORD ENGINEERING								
525	322	12.000	11.000				679.5	555.6	304.8	49.5	440.7									
530	338	12.750	11.500				711.2	565.2	323.9	54.2	466.1									
540	448	17.000	15.750				850.9	612.8	381.0	65.4	574.7									

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™ AA, AX and AY 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 flex pack I.D. listed in the dimensional table.



TYPICAL APPLICATIONS

- Machine Tools
- Ball Screws
- Pumps
- Printing Machines

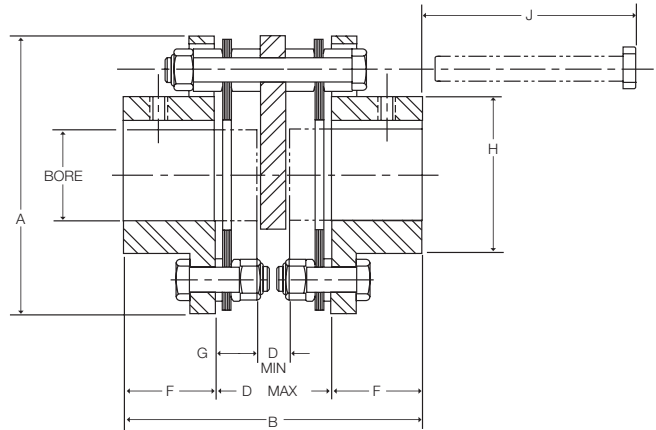
SPECIAL APPLICATIONS

- Elastomeric Coupling Replacement
- Cranes
- Gear Coupling Replacement

Close Coupled Coupling AX Series - Form-Flex™

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 (mm)*								
	AJ		AZ		A	B	DBSE		F	G	H	J	DISC PACK I.D.**
	(mm)	(in)	(mm)	(in)			D** Min	D Max					
5	22	0.875	30	1.19	67.3	84.8	9.7	34.0	25.4	12.2	33.0	42.7	25.4
10	33	1.250	43	1.63	81.0	86.4	11.2	35.6	25.4	12.2	33.0	45.5	29.7
15	36	1.375	48	1.75	92.7	96.5	16.0	39.1	28.7	11.2	50.8	47.0	32.5
20	46	1.688	58	2.13	103.6	107.2	16.0	40.1	33.5	12.2	61.0	42.2	41.9
25	53	2.000	68	2.56	125.7	136.1	19.1	53.8	41.1	17.5	71.1	60.7	45.2
30	63	2.380	79	2.88	143.0	160.0	25.4	64.5	47.8	19.6	83.8	80.8	51.1
35	80	2.938	101	3.75	168.4	182.1	28.7	67.8	57.2	19.6	105.4	71.4	68.8

* Dimension shown are for AJ hubs unless otherwise specified.

** 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	kW/100 RPM	Rated Torque (Nm)	Peak O/L Torque (Nm)	Max RPM	Weight (kg) (1)	WR ² (kg-cm ²) (1)	Misalignment Capacity	
							Axial (+/-mm)	Angular (Degrees/Disc Pack)
5	0.36	34	51	3,600	0.74	3.69	.076	1°
10	0.95	90	136	3,500	1.13	8.49	1.01	
15	1.87	178	267	3,450	1.75	16.97	1.06	
20	2.60	249	373	3,350	2.32	26.81	1.39	
25	4.50	429	644	3,200	4.15	76.38	1.52	
30	8.21	783	1174	3,000	6.27	151.3	1.65	
35	13.4	1281	1922	2,800	9.59	316.1	2.16	

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 35 MM)

1 - SPACER SUB-ASSEMBLY - Example (AX25SAA)

STANDARD MATERIALS (CLASS A)

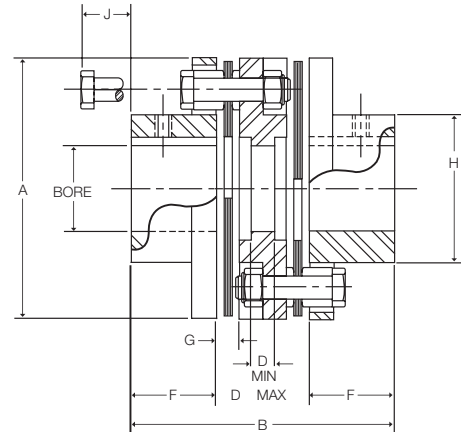
CLASS A - Mild steel hubs and spacer, alloy steel hardware, 300 series stainless steel disc packs

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 (mm)*								
	AJ		AZ		A	B	DBSE		F	G	H	J	Disc Pack I.D.**
	(mm)	(in)	(mm)	(in)			D** Min	D Max					
5	22	0.875	30	1.19	67.3	82.0	6.4	31.2	25.4	6.1	33.0	13.7	25.4
10	33	1.250	43	1.63	81.0	94.7	6.4	43.9	25.4	6.9	45.7	14.2	29.7
15	36	1.375	48	1.75	92.7	97.0	7.9	39.6	28.7	8.1	50.8	22.4	32.5
20	46	1.688	58	2.13	103.6	111.3	10.4	44.2	33.5	8.6	61.0	20.1	41.9
25	53	2.000	68	2.56	125.7	133.6	10.4	51.3	41.1	11.4	71.1	25.4	45.2
30	63	2.380	79	2.88	143.0	158.5	14.2	63.0	47.8	11.9	83.8	29.0	51.1
35	80	2.938	101	3.75	168.4	175.5	16.8	61.2	57.2	14.0	105.4	24.6	68.8

* Dimension shown are for AJ hubs unless otherwise specified.

** 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	kW/100 RPM	Rated Torque (Nm)	Peak O/L Torque (Nm)	Max RPM	Weight (kg) (1)	WR ² (kg-cm ²) (1)	Misalignment Capacity	
							Axial (+/-mm)	Angular (Degrees/Disc Pack)
5	0.36	34	51	3,600	0.80	4.10	.076	1°
10	0.95	90	136	3,500	1.26	9.80	1.01	
15	1.87	178	267	3,450	1.93	19.49	1.06	
20	2.60	249	373	3,350	2.49	29.85	1.39	
25	4.50	429	644	3,200	4.46	86.04	1.52	
30	8.21	783	1174	3,000	6.82	172.7	1.65	
35	13.4	1281	1922	2,800	10.18	354.1	2.16	

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 35 MM)

1 - SPACER SUB-ASSEMBLY - Example (AA25SAA)

MATERIAL / FINISH OPTIONS

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

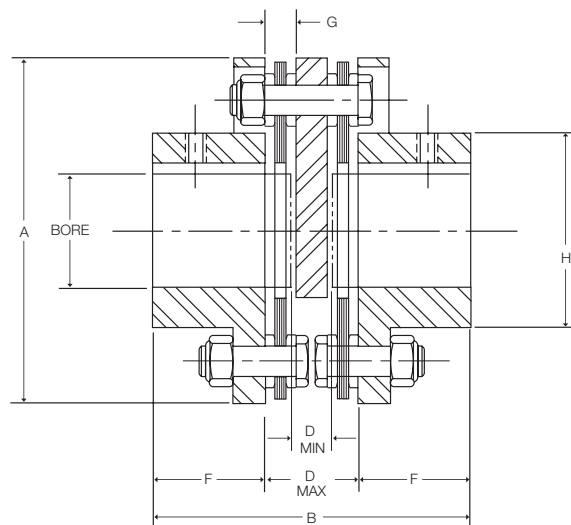
CLASS B - Zinc plated steel hubs, and spacer, alloy steel hardware, 300 series stainless steel disc pack

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

Close Coupled Coupling AY Series - Form-Flex™

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 (mm)*							
	AJ		AZ		A	B	DBSE		F	G	H	Disc Pack I.D.**
	(mm)	(in)	(mm)	(in)			D** Min	D Max				
5	22	0.875	30	1.19	67.3	72.4	12.4	21.6	25.4	6.1	33.0	25.4
10	33	1.250	43	1.63	81.0	73.9	12.7	23.1	25.4	6.9	45.7	29.7
15	36	1.375	48	1.75	92.7	84.6	14.2	27.2	28.7	8.1	50.8	32.5
20	46	1.688	58	2.13	103.6	95.5	14.2	28.4	33.5	8.6	61.0	41.9
25	53	2.000	68	2.56	125.7	121.2	22.1	38.9	41.1	11.4	71.1	45.2

* Dimension shown are for AJ hubs unless otherwise specified.

** 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	kW/100 RPM	Rated Torque (Nm)	Peak O/L Torque (Nm)	AGMA 7 Max RPM	Weight (kg) (1)	WR ² (kg-cm ²) (1)	Misalignment Capacity	
							Axial (+/-mm)	Angular (Degrees/Disc Pack)
5	0.36	34	68	8,500	0.75	3.63	0.76	1°
10	0.95	90	181	7,500	1.22	9.01	1.01	
15	1.87	178	356	6,700	1.92	18.76	1.06	
20	2.60	249	497	6,200	2.50	29.03	1.39	
25	4.50	429	859	5,500	4.45	80.77	1.52	

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

AY SERIES COUPLINGS ARE SOLD AS COMPONENTS
COUPLINGS CONSIST OF:

2 - HUBS - Example (AJ25A x 35 MM)

1 - SPACER SUB-ASSEMBLY - Example (AY25SAA)

MATERIAL / FINISH OPTIONS

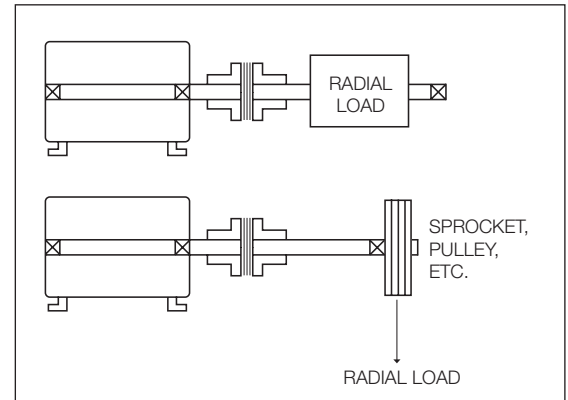
CLASS A - Mild steel hubs and spacer, alloy steel hardware, 300 series stainless steel disc pack

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

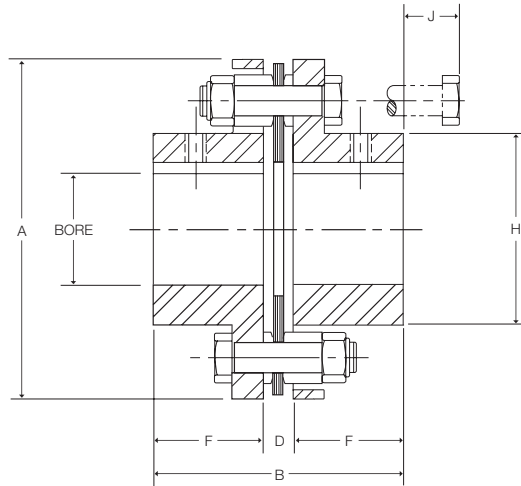
- Should only be used in three bearing system
- Used in pairs for floating shaft arrangement
- Can be used in pairs to support other components
 - Clutches
 - Brakes
 - Sheaves
- Mixers
- Single coupling can be used to support a component when a self-aligning bearing is used

SPECIAL APPLICATIONS

- Torque Monitoring Equipment

Single Flex Coupling AR Series - Form-Flex™

Single Flex Short Spacing



Size	Max Bore				Dimensions (mm)*					
	AJ		AZ		A	B	D DBSE	F	H	J
	(mm)	(in)	(mm)	(in)						
5	22	0.875	30	1.19	67.3	56.9	6.1	25.4	33.0	13.7
10	33	1.250	43	1.63	81.0	57.7	6.9	25.4	45.7	15.0
15	36	1.375	48	1.75	92.7	65.5	8.1	28.7	50.8	22.4
20	46	1.688	58	2.13	103.6	75.7	8.6	33.5	61.0	20.1
25	53	2.000	68	2.56	125.7	93.7	11.4	41.1	71.1	25.4
30	63	2.380	79	2.88	143.0	107.4	11.9	47.8	83.8	29.0
35	80	2.938	101	3.75	168.4	128.3	14.0	57.2	105.4	24.6

* Dimension shown are for AJ hubs unless otherwise specified.

Size	kW/100 RPM	Rated Torque (Nm)	Peak O/L Torque (Nm)	AGMA 7 Max RPM	Max Radial Load (kg)	Weight (1) (kg)	WR ² (1) (kg-cm ²)	Misalignment Capacity	
								Axial (+/-mm)	Angular (Degrees/Disc Pack)
5	0.36	34	68	8,500	15	0.56	2.81	0.381	1°
10	0.95	90	181	7,500	25	0.89	6.88	0.508	
15	1.87	178	356	6,700	57	1.35	13.52	0.533	
20	2.60	249	497	6,200	83	1.85	21.89	0.686	
25	4.50	429	859	5,500	125	3.19	59.70	0.762	
30	8.21	783	1566	5,000	182	4.91	121.4	0.813	
35	13.4	1281	2562	4,400	273	7.82	258.4	1.067	

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

AR SERIES COUPLINGS ARE SOLD AS COMPONENTS
COUPLINGS CONSIST OF:

2 - HUBS - Example (AJ25A x 35 MM)

1 - REPAIR KIT - Example (A25RKA)

MATERIAL / FINISH OPTIONS

CLASS A - Steel hubs, alloy steel hardware, 300 series stainless steel disc packs

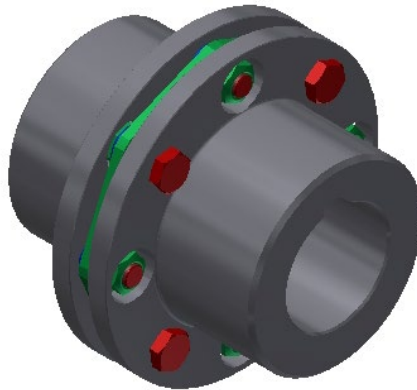
CLASS B - Zinc plated steel hubs and spacer, alloy steel hardware, 300 series stainless steel disc pack

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 (kg)	Weight (kg) (1)	WR ² (kg-m ²) (1)	Misalignment Capacity	
	kW/100 (RPM)	Max Continuous (Nm)	Peak Overload (Nm)	AGMA 8	ABS. Max				Axial (+/- mm)	Angular (Degrees/ Disc Pack)
311	13.0	1,243	2,486	8,000	13,000	164	5.0	0.012	0.356	0.5°
321	24.3	2,316	4,632	7,400	12,000	364	8.1	0.023	0.368	
332	37.9	3,615	7,231	6,600	11,500	591	11.9	0.042	0.381	
346	54.4	5,197	10,394	6,100	9,000	591	17.3	0.079	0.635	
380	94.7	9,039	18,077	5,500	7,000	1,091	24.1	0.137	1.02	
412	142	13,558	27,116	5,200	6,000	1,091	32.9	0.274	1.02	0.33°
419	225	21,467	42,933	4,600	5,000	1,909	58.8	0.612	1.27	
424	355	33,894	67,789	4,200	5,000	1,909	89.0	1.445	1.27	
444	515	49,147	98,294	3,800	4,000	2,409	132.5	2.465	1.40	
456	758	72,308	144,616	3,600	3,500	3,045	165.4	3.870	1.52	
483	982	93,775	187,549	3,300	3,500	3,727	232.7	6.099	1.65	
511	1420	135,578	271,156	3,100	3,000	4,455	307.8	10.850	1.78	
520	2367	225,963	451,926	2,800	2,500	7,136	549	21.026	2.29	
525	2959	282,454	564,908	2,700	2,500	8,136	669	33.34	2.54	
530	3551	338,945	677,890	2,500	2,500	9,545	796	43.49	2.54	
540	4735	451,926	903,853	2,300	2,000	10,455	1210	101.53	3.05	

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

DISC PACKS - ALLOY STEEL (For cost reduction, available for sizes 412 to 540)

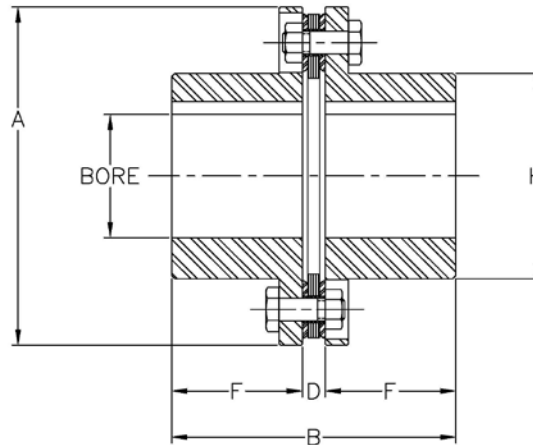
ZINC ELECTRO PLATING

ZINC PHOSPHATE COATING

ALLOY STEEL HUBS

Single Flex Coupling GR Series - Form-Flex™

Single Flex Short Spacing



Size	Max Bore						Common Coupling Dimensions (mm)						
	Standard Hub			Oversized/Large Hub			A	B	D DBSE	F	G	H	
	Rect. Key (mm)	Rect. Key (in)	Square Key (in)	Rect. Key (mm)	Rect. Key (in)	Square Key (in)						Std Hub	O/S Hub
311	78	3.063	2.813	86	3.313	3.125	149.4	137.2	10.2	63.5	10.2	99.2	109.3
321	83	3.250	3.000	90	3.438	3.250	162.1	166.3	13.9	76.2	14.0	108.0	116.1
332	87	3.313	3.188	95	3.688	3.438	182.9	193.5	15.6	88.9	15.5	114.3	125.6
346	107	4.000	3.750	117	4.500	4.250	208.3	206.2	15.6	95.3	15.6	137.7	151.0
380	105	4.000	3.750	118	4.500	4.250	239.3	232.2	22.6	104.8	22.6	143.5	160.0
412	120	4.500	4.500	135	5.125	4.750	279.4	234.8	18.9	108.0	18.9	165.4	182.8
419	130	4.875	4.500	150	5.625	5.500	317.5	278.9	24.9	127.0	24.9	185.9	205.0
424	190	6.880	6.625				381.0	342.4	24.9	158.8	24.9	243.1	
444	200	7.375	7.000				415.9	383.3	27.7	177.8	27.7	267.2	
456	220	8.000	8.000				457.2	401.7	33.4	184.2	33.4	295.4	
483	234	8.875	8.250				493.7	467.1	35.3	215.9	35.3	319.1	
511	280	10.125	10.000				558.8	496.7	39.5	228.6	39.5	368.3	
520	297	11.000	10.375				631.8	651.3	48.0	301.6	48.0	408.9	
525	322	12.000	11.000				679.5	659.1	49.5	304.8	49.5	440.7	
530	338	12.750	11.500				711.2	701.9	54.2	323.9	54.2	466.1	
540	448	17.000	15.750				850.9	827.4	65.4	381.0	65.4	574.7	

ORDERING

GR SERIES COUPLINGS ARE SOLD AS COMPONENTS

COUPLINGS CONSIST OF:

2 - HUBS - Example (GH346 x 55 MM)

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
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)

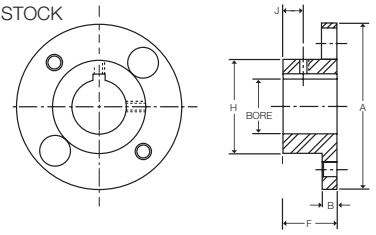
Kit Type	Repair Kits				Hardware Kit	Disc Pack		Rough Bore Hub	
Used On	Double		Single		Single (1)	SS	CS	Std	Oversize
Mat'l Class	SS Disc Pack	CS Disc Pack	SS Disc Pack	CS Disc Pack					
311	G311-DF-SS	-	G311-SF-SS	-	G311-HK	G311-5-SS	-	G311-3ST	G311-3LST
321	G321-DF-SS	-	G321-SF-SS	-	G321-HK	G321-5-SS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

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.

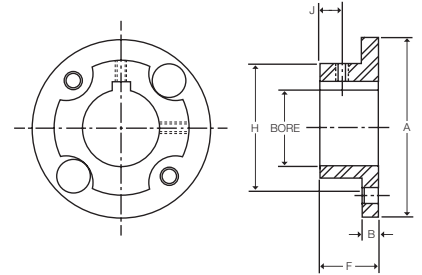
AJ STANDARD HUBS - PROVIDED WITH STRAIGHT BORE AND KEYWAY - SOLID HUBS AVAILABLE FROM STOCK

Size	Max Bore		A	B	F	H	J	Std Set Screw Size
	(mm)	(in)						
5	22	0.875	67.3	6.4	25.4	33.0	9.7	#10-24 UNC
10	33	1.250	81.0	7.6	25.4	45.7	9.7	1/4-20 UNC
15	36	1.375	92.7	8.9	28.7	50.8	10.4	1/4-20 UNC
20	46	1.688	103.6	8.9	33.5	61.0	12.7	1/4-20 UNC
25	53	2.000	125.7	11.4	41.1	71.1	16.0	5/16-18 UNC
30	63	2.380	143.0	14.0	47.8	83.8	17.5	5/16-18 UNC
35	80	2.938	168.4	14.0	57.2	105.4	22.4	1/2-13 UNC



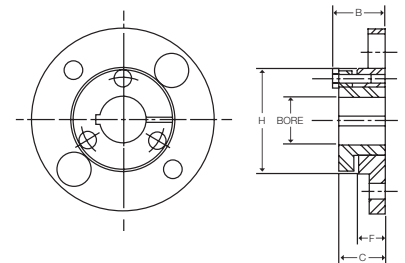
AZ OVERSIZE BORE HUBS - PROVIDED WITH STRAIGHT BORE AND KEYWAY

Size	Max Bore		A	B	F	H	J	Std Set Screw Size
	(mm)	(in)						
5	30	1.188	67.3	6.4	25.4	47.8	9.7	#10-24 UNC
10	43	1.625	81.0	7.6	25.4	60.2	9.7	1/4-20 UNC
15	48	1.750	92.7	8.9	28.7	68.3	10.4	1/4-20 UNC
20	58	2.125	103.6	8.9	33.5	79.5	12.7	1/4-20 UNC
25	68	2.563	125.7	11.4	41.1	95.3	16.0	5/16-18 UNC
30	79	2.875	143.0	14.0	47.8	108.0	17.5	5/16-18 UNC
35	101	3.750	168.4	14.0	57.2	133.4	22.4	1/2-13 UNC



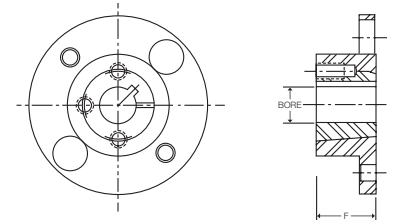
QD BORED HUBS - MATERIAL CLASS A OR B ONLY

Size	Bush Size	Bush TQ. (Nm)	Max Bore		B	C	F	H	Bolt Size
			(mm)	(in)					
15	JA	113	28	1.250	29.7	25.4	14.2	50.8	#10-24 UNC
20	JA	113	28	1.250	29.7	25.4	14.2	61.0	#10-24 UNC
25	SH	395	35	1.688	38.1	31.8	19.1	71.1	1/4-20 UNC
30	SD	565	42	2.000	52.3	46.0	31.8	83.8	1/4-20 UNC
35	SK	791	55	2.625	55.6	47.5	31.8	105.4	5/16-18 UNC
40	SF	1243	65	2.938	60.5	52.3	34.8	118.1	3/8-16 UNC



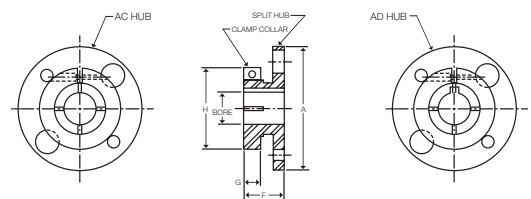
HUBS FOR TAPER LOCK BUSHINGS - AVAILABLE MTO ONLY

Size	Regular Mount					Reverse Mount				
	Bush Size	Bush TQ. (Nm)	Max Bore		F (mm)	Bush Size	Bush TQ. (Nm)	Max Bore		F (mm)
15	N/A	-	-	-	-	1108	147	25	1.12	22.1
20	1108	147	25	1.12	22.1	1215	401	32	1.25	38.1
25	1215	401	32	1.25	38.1	1310	435	35	1.37	25.4
30	1310	435	35	1.37	25.4	1615	486	42	1.62	38.1
35	2012	808	48	2.00	31.8	2517	1311	65	2.50	44.5
40	2525	1277	65	2.50	63.5	2525	1277	65	2.50	63.5



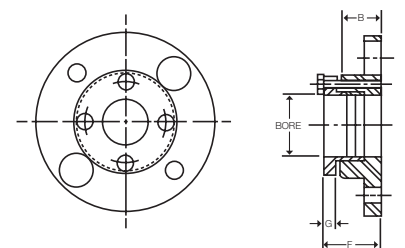
AC/AD CLAMPING HUBS - AC HUBS PROVIDED WITHOUT KEYWAY - AD HUBS PROVIDED WITH KEYWAY - MATERIAL CLASS A OR B ONLY

Size	Max Bore				A	F	G	H	Clamp Screw Size
	AC		AD						
	(mm)	(in)	(mm)	(in)					
5	25	1.00	20	0.87	67.3	28.7	12.7	52.3	1/4-20 UNC
10	25	1.00	20	0.87	81.0	30.0	12.7	52.3	1/4-20 UNC
	38	1.50	30	1.25		34.5	17.5	69.9	5/16-18 UNC
15	25	1.00	20	0.87	92.7	32.3	12.7	52.3	1/4-20 UNC
	44	1.75	24	1.37		37.1	17.5	76.2	5/16-18 UNC
20	33	1.31	24	1.00	103.6	33.5	14.0	60.5	1/4-20 UNC
	53	2.13	42	1.62		38.6	19.1	88.9	3/8-16 UNC
25	53	2.13	42	1.62	125.7	41.1	16.3	88.9	5/16-18 UNC
	63	2.50	50	1.87		47.2	22.4	101.6	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				B	F	G	Screw Size
		Min		Max					
		(mm)	(in)	(mm)	(in)				
5	AJ	6	0.24	13	0.51	25.4	33.5	8.1	#10-32 UNF
	AZ	14	0.55	19	0.75	25.4	36.1	10.7	1/4-28 UNF
10	AJ	12	0.47	18	0.71	25.4	36.1	10.7	1/4-28 UNF
	AZ	19	0.75	30	1.18	25.4	36.1	10.7	1/4-28 UNF
15	AJ	12	0.47	22	0.87	28.7	39.4	10.7	1/4-28 UNF
	AZ	24	0.94	35	1.38	28.7	39.4	10.7	1/4-28 UNF
20	AJ	22	0.87	30	1.18	33.5	45.2	10.7	1/4-28 UNF
	AZ	32	1.26	42	1.65	33.5	46.5	13.0	5/16-24 UNF
25	AJ	22	0.87	32	1.26	41.4	52.1	10.7	1/4-28 UNF
	AZ	35	1.38	50	1.97	41.4	56.6	15.2	3/8-24 UNF

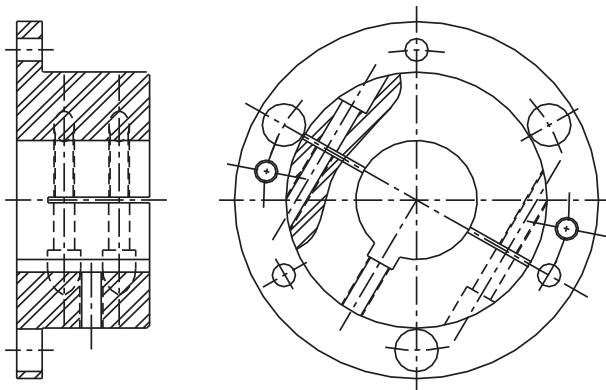


NOTE: AC and AL Hubs do not carry full torque capacity. Please consult engineering.

Form-Flex™ G-Series Hub Options

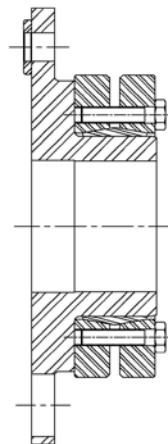
CLAMP HUB

PROVIDED WITH STRAIGHT BORE AND KEYWAY



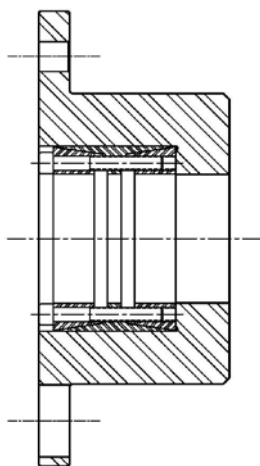
EXTERNAL LOCKING ELEMENT

USED WITH KEYLESS SHAFTS



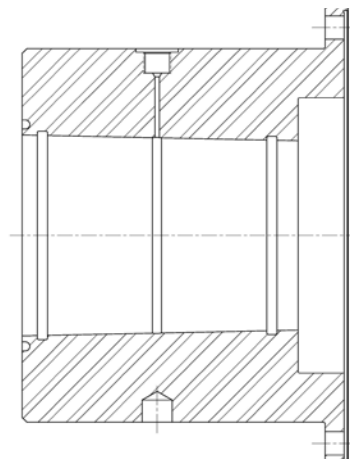
INTERNAL LOCKING ELEMENT

USED WITH KEYLESS SHAFTS



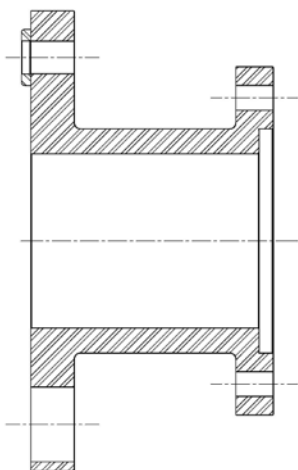
TAPER BORE WITH HYDRAULIC REMOVAL

USED WITH KEYLESS TAPERED SHAFTS



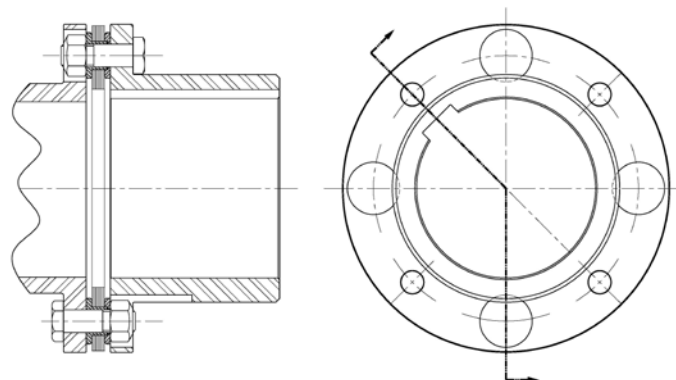
SPECIAL FLANGE ADAPTERS

DESIGNED TO MATE WITH ANY CUSTOM FLANGE



OVERSIZE HUB DESIGN

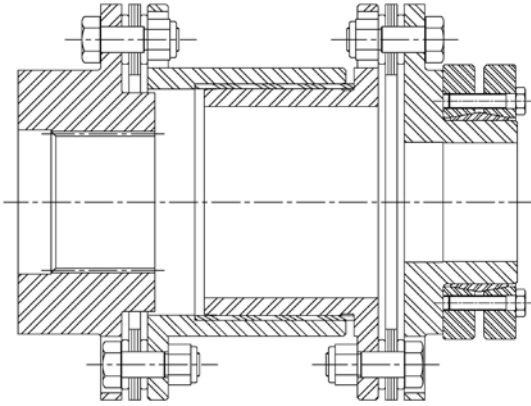
FOR INCREASED BORE CAPACITY



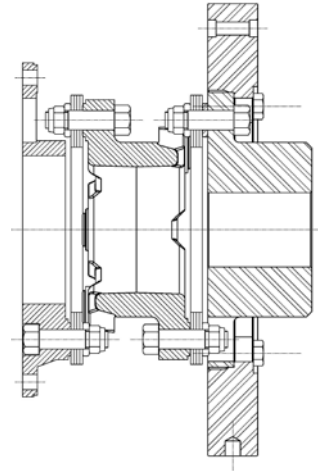
Coupling Design Options and Special Applications

ELECTRICAL INSULATION SPACER WITH SPLINE BORE AND EXTERNAL LOCKING ELEMENT

Two piece spacer design with e-glass composite tube separating the steel halves.



INERTIA RING ADDED TO TORSIONALLY TUNE COMPRESSOR SYSTEM



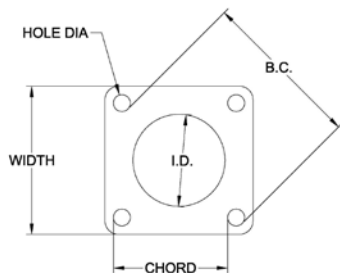
FLOATING SHAFT COUPLING WITH OVER SIZED TUBE FOR INCREASED STIFFNESS AND CRITICAL SPEED WITH CUSTOM FLANGE ADAPTER

Special features include oversize steel tube welded to bolted adapters for easy assembly, motor hub with integral brake disc, custom flange.

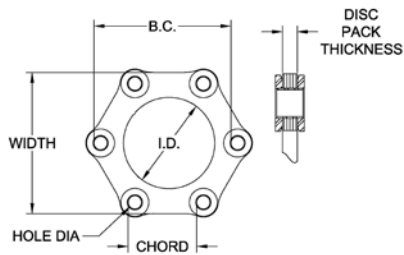


Disc, Bolt Thread and Tool Size Identification Chart

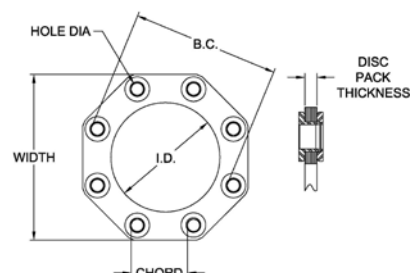
**Form-Flex™
A-Series**



**Form-Flex G-Series
Sizes 311-380**



**Form-Flex G-Series
Sizes 340-540**



Coupling Series	Disc Size	Disc Dimensions (mm)						Bolt				Nut	
		Width	ID	Hole Dia.	B.C. Dia.	Chord	Disc Pack Thickness	Thread Diameter (mm)	Thread Pitch	Thread Designation	HEX WAF (in)	HEX WAF/OD (in)	Wrench Torque (Nm)
Form-Flex A-Series	5	46.6	25.5	6.4	47.7	33.3	1.5	6.4	28	1/4-28	0.438	0.438	11
	10	55.5	29.7	6.4	60.1	42.9	2.3	6.4	28	1/4-28	0.438	0.438	11
	15	64.5	32.4	8.0	68.4	47.6	3.0	7.9	24	5/16-24	0.500	0.500	23
	20	72.1	41.9	8.0	79.3	55.6	3.6	7.9	24	5/16-24	0.500	0.500	23
	25	89.5	45.2	11.2	95.2	66.7	3.8	11.1	20	7/16-20	0.625	0.625	54
	30	101.8	51.1	12.8	108.1	76.2	5.3	12.7	20	1/2-20	0.750	0.750	79
	35	119.7	68.9	12.8	133.3	93.7	6.9	12.7	20	1/2-20	0.750	0.750	79
Form-Flex G-Series	311	121.3	90.9	9.8	123.4	61.9	5.1	7.9	24	5/16-24	0.500	0.500	30
	321	136.5	94.6	13.0	133.4	66.7	6.3	11.1	20	7/16-20	0.625	0.688	75
	332	152.3	98.4	16.3	147.6	73.0	8.0	14.3	18	9/16-18	0.813	0.813	163
	346	176.1	120.6	16.3	173.0	85.7	8.0	14.3	18	9/16-18	0.813	0.813	163
	380	204.5	128.5	22.0	189.9	95.3	9.9	19.1	16	3/4-16	1.125	1.125	390
	340	190.4	124.6	15.9	171.4	65.1	6.1	12.7	20	1/2-20	0.875	0.875	102
	412	244.1	154.9	25.4	216.0	82.6	9.9	19.1	16	3/4-16	1.250	1.250	339
	419	279.7	177.8	29.0	247.7	95.3	12.6	25.4	14	1-14	1.625	1.625	610
	424	342.7	225.9	30.5	305.0	117.5	12.6	25.4	14	1-14	1.625	1.625	610
	444	382.5	243.8	36.5	335.0	128.6	14.5	28.6	12	1 1/8-12	1.813	1.813	881
	456	420.8	270.7	39.5	370.0	141.3	17.5	31.8	12	1 1/4-12	2.000	2.000	1125
	483	454.6	293.1	42.5	400.0	152.4	19.4	34.9	12	1 3/8-12	2.188	2.188	1355
	511	516.9	342.9	44.3	458.8	176.2	23.6	38.1	12	1 1/2-12	2.375	2.364	1898
	520	588.9	370.6	56.1	513.1	196.9	29.0	47.6	12	1 7/8-12	3.000	0.438	146
	525	633.7	397.3	59.8	551.2	211.1	30.5	50.8	12	2-12	3.125	0.438	168
	530	663.4	415.0	63.5	576.6	220.7	32.0	54.0	12	2 1/8-12	3.375	0.438	191
	540	792.8	537.1	67.3	712.5	273.1	40.0	57.2	10	2 1/4-12	3.750	0.563	266

Application Data Sheet

Project Ref: _____
 Company: _____ Date: _____
 Contact: _____ Email: _____
 Replacing: _____ Phone #: _____

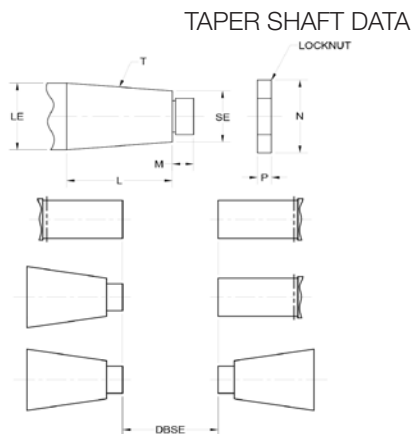
SECTION I - DRIVER Electric Motor ☐ ; Engine ☐ - # Cylinders _____ ; Turbine ☐ ; Other _____
 HP: _____ KW: _____ Normal Torque: _____ Lb-in[] Nm[]
 Rated Speed: _____ Max Torque: _____ Lb-in[] Nm[]
 Operating Speed: _____ Breakdown Torque: _____ Lb-in[] Nm[]

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 _____

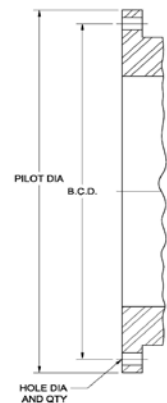
SECTION IV - DIMENSIONAL DATA Distance Between Shaft Ends (DBSE): _____ IN [] MM []
 Taper Shaft & Keyway Data

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



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

FLYWHEEL/FLANGE CONNECTION
 PILOT DIA. _____
 B.C.D. _____
 HOLE DIA. _____
 QTY. _____



STANDARD ADAPTER SIZES

Size	O.D. (in)	SAE Bolting			HD Bolting		
		P.C.D. (in)	Hole Qty.	Hole Size (in)	P.C.D. (in)	Hole Qty.	Hole Size (in)
10	10.375	9.625	6	0.406	9.500	8	0.469
12	12.375	11.625	8	0.406	11.500	8	0.531
14	13.875	13.125	8	0.406	12.500	8	0.656
18	18.375	17.250	8	0.531	16.750	8	0.781
20	20.375	19.250	8	0.531	18.500	8	0.906
22	22.500	21.375	6	0.656	20.500	8	1.031
26	26.500	25.250	12	0.656	24.500	12	1.031
28	28.875	27.250	12	0.781	26.875	12	1.031

Additional Comments:

Please attach a separate sheet with drawing, if needed.



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