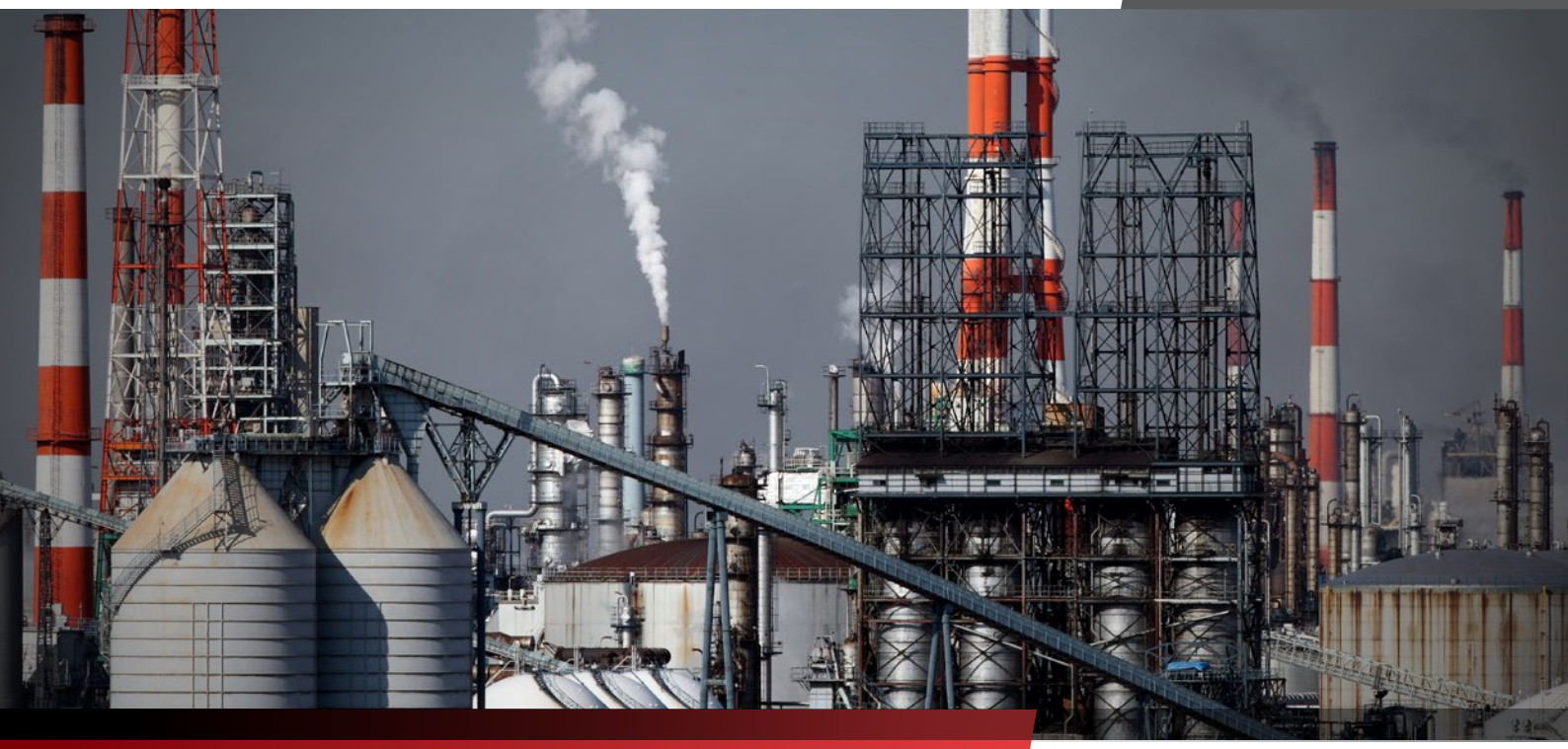
REXNORD
Thomas

PRODUCT CATALOG

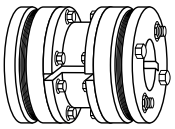
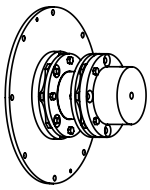
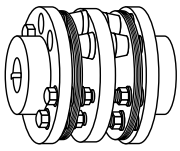
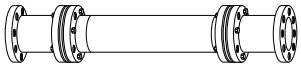
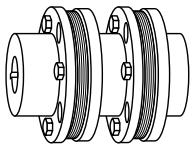
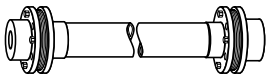
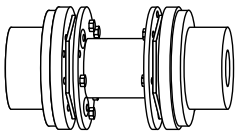
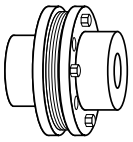
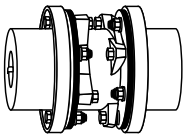
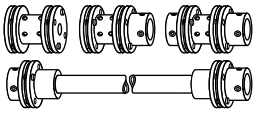
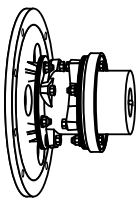


THOMAS® FLEXIBLE DISC COUPLINGS

METRIC

RegalRexnord™

Table of Contents

Coupling Type	Description and Typical Applications	Coupling Type	Description and Typical Applications
 **Series 54RDG, Series 54RD**	Thomas Series 54 couplings are designed as maintenance-free alternatives to lubricated gear- and grid-style couplings in close-coupled applications. Typical applications include fans, pumps, conveyors, pulpers, and mill drives.	 **Series 44**	Thomas Series 44 couplings feature a flywheel adapter plate that bolts directly to a flywheel and are ideal for heavy-duty, to medium to high-speed applications, where high starting torque, shock loads, torque reversals or continuous alternating torques are present. They are balanced and include a fully machined spacer for API compliance. Typical applications include engine drivers, reciprocating pumps and compressors, heavy-duty industrial drives where flywheel mounting is required.
 **DBZ, DBZ-A, DBZ-B**	Thomas DBZ disc couplings are general purpose high-speed, high-torque couplings designed to accommodate maximum continuous torque loads up to 43,400 lb-in. Typical applications include mixers, compressors, agitators, blowers, fans, centrifugal pumps, and conveyors.	 **XTSRGA**	Thomas XTSRGA couplings directly replace lubricated gear couplings commonly found in many pulp and paper applications with long spans between connected equipment. They blot up to the existing AGMA Standard rigid gear coupling hubs, enabling simple replacement of the floating shaft assembly. Typical applications include pulp and paper machines, line shafts, pelletizers, crushers and mill drives.
 **XTSR52**	Thomas XTSR52 non-adapter style spacer disc couplings are general purpose, high-speed, high-torque couplings used where minimum coupling weight is desirable. They are API 610 and ISO 14691 compliant when specified as well as ATEX II 2GD c T6 certified. Typical applications include pumps and compressors (centrifugal, rotary, lobe and axial), speed increasers, fans, dynamometers.	 **XTSRLS52, XTSRLS71, XTSRLS71-C**	Thomas XTSRLS couplings are full-floating shaft couplings designed for applications with relatively long distances between connected equipment, either horizontally or vertically. Typical applications include pumps, generators, fans, paper mill drives, line shafts, compressors, printing machines, turbines, test stands and engine drives.
 **XTSR71**	The Thomas XTSR71 adapter-style spacer design enables quick drop-in installation and removal without moving connected equipment. They are balanced to AGMA Class 9 and compliant to API 610 as manufactured. Typical applications include pumps and compressors with popular shaft separation standards, blowers, fans, speed increasers.	 **XTSRS**	Thomas XTSRS couplings are single flexing design that accommodate angular misalignment only. Two XTSRS couplings may be combined with intermediate shaft to support full-floating shaft applications. Typically used in three-bearing applications where radial load is supported by the coupling, such as single bearing generators. such as single bearing generators, V-belt sheaves, etc.
 **AMR**	Thomas AMR couplings provide shaft-to-shaft connections and are ideal for heavy-duty, slow- to medium-speed applications, where high starting torque, shock loads, torque reversals or continuous alternating torques are present. The open lug type center member provides clearance for assembly while minimizing the space required for coupling installations. Typical applications include reciprocating pumps and compressors, fan drives, blowers, heavy-duty industrial drives, crushers, extruders, hoists, dredges, generators, chippers, calenders, mill drives, conveyors.	 **Miniature Couplings**	The Rexnord Thomas Miniature Couplings are a range of high precision couplings for low horsepower applications. There are options with a variety of hub styles to accommodate many types of spacing and shafts. Typically used in tachometers, encoders, switches, ball screws, test stands, pumps, compressors, centrifuges, theodolites, sonar, radar, scales, and carburetors.
 **CMR**	Thomas CMR couplings feature a flywheel adapter plate that bolts directly to a flywheel and are ideal for heavy-duty, slow- to medium-speed applications, where high starting torque, shock loads, torque reversals or continuous alternating torques are present. The open lug type center member provides clearance for assembly while minimizing the space required for coupling installations. Typical applications include engine drivers, reciprocating pumps and compressors, heavy-duty industrial drives where flywheel mounting is required.		

NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

A flexible coupling is a device used to connect the ends of two shafts, transmit torque, and at the same time, accommodate slight misalignments which develop in service.

The primary functions of all flexible couplings are:

1. To transmit power from one shaft to another, efficiently and effectively.
2. To accommodate slight shaft misalignments which develop in service.

The secondary functions of flexible couplings are:

1. Protect connected equipment:
   a. Absorb shock, vibration and pulsations.
   b. Decrease cross load on bearings.
   c. Accept load reversals.
   d. Minimize backlash.
2. Minimize “installation” and “maintenance” difficulties. Shafts become misaligned during operation because of settling foundations, the effects of heat, vibration, etc. These misalignments take place in the form of angular misalignment, parallel misalignment or axial movement of the shafts; therefore, to get full service life from any flexible coupling, it is necessary to:
   a. Assure proper shaft alignment during initial installation.
   b. Occasionally check for and correct shaft misalignments during operation.

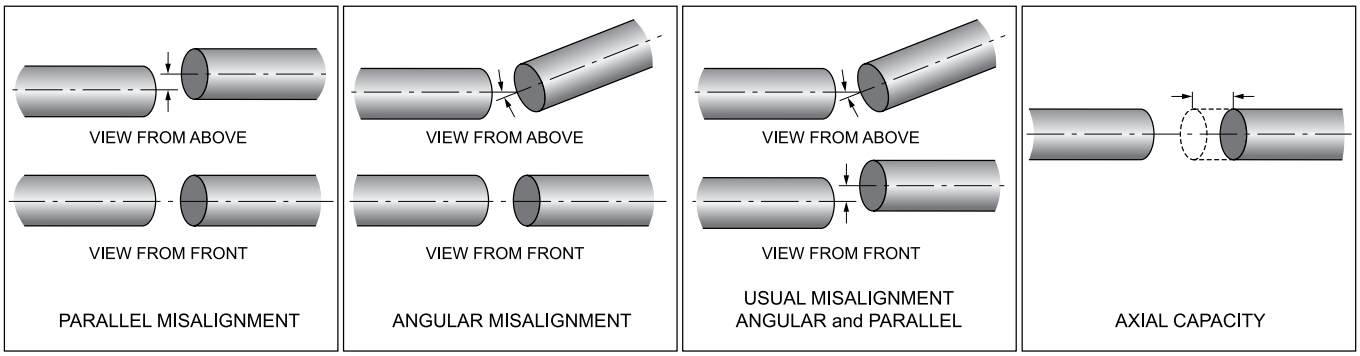
Misalignment Overview

Misaligned shafts not properly coupled are subject to severe stresses that damage bearings and seals. Any or all of the misalignments shown in the above diagrams are present in all connected drives; therefore, it is imperative that flexible couplings be used to avoid costly damage to your equipment.

Initial alignment of machinery is one of the most critical factors affecting coupling performance and reliability. Each particular style of coupling has its own misalignment capabilities. The installation and alignment instructions outline the initial alignment requirements. These initial values are approximately one-third of the total coupling misalignment capacity. This means that the coupling has ample reserve to compensate for operational misalignments which develop as a result of bearing wear, foundation settling, thermal growth, pipe strain, etc. However, the closer the initial alignment, the more reserve margin a coupling has to compensate for misalignments during the life of the machine. A coupling that operates with large amounts of misalignment will have a limited life, while a coupling operating within capacity will have infinite life.

The customer and coupling manufacturer must mutually select the correct size and type coupling for the application. Good service life will then become a reality if proper installation and alignment procedures are followed.

The following pages show basic coupling arrangements and load classifications based on years of experience in coupling applications in all phases of power transmission. Any unusual operating or misalignment conditions should be referred to Regal Rexnord to assure proper selection of size and type of coupling.



Maximum RPM and Balance Recommendations

Regal Rexnord has developed recommendations for coupling balancing based on AGMA 9000-D11 and the inherent balance level of the various couplings shown in this catalog. These are shown on the data sheets as follows:

Max. RPM As Manufactured
This is the maximum operating speed where the coupling will operate under normal conditions, with "high" sensitivity to coupling unbalance, and not create unacceptable vibration. This is based on maximum potential unbalance per AGMA 9000-D11 and corresponding standard balance class.

Max. RPM Balanced
This is the maximum operating speed where the coupling, after balancing operations, will still be compatible with the typical drive system. Consult Regal Rexnord for speed requirements in excess of this value; special designs or manufacturing procedures may be required.

Certain coupling types are not suitable for dynamic balancing, and should not be used if tighter balance class is required. These types include AMR, CMR, and DBZ.

CAUTION: All rotating power transmission products are potentially dangerous and must be properly guarded. Never operate coupling without an OSHA-approved guard.

NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

Rexnord® Thomas® Disk Pack Overview

XTSR Disc Packs

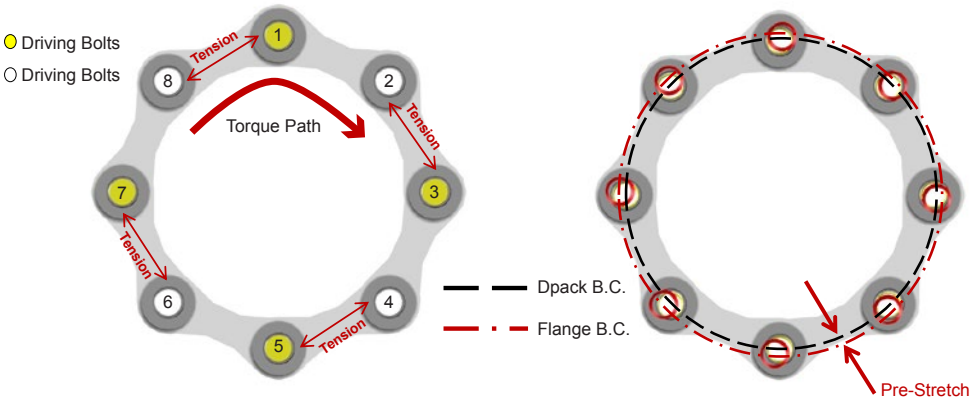
All XTSR couplings feature **unitized** disc packs in 4-, 6-, or 8-bolt variety (depending on size) and scalloped profile for optimal torque transmission.

- Torque is transmitted in tension through the driving chords
- Scalloped profiling of the disc pack reduces overall stiffness and optimizes the torque carrying path between sections.
- Fully-unitized stainless steel design eliminates loose pieces.
- Profiled washers eliminate high stress levels at bolting area
- The bolt circle in disc pack is smaller than in mounting flanges of spacers, hubs, and adapters. This design pre-stretches the chords to eliminate torque fatigue during start up.

Sizes 494-644 (4 bolt holes)

Sizes 726-996 (6 bolt holes)

Sizes 1088-5258 (8 bolt holes)

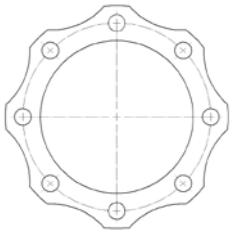


Tpack Style

Tpack style disc packs are **semi-unitized,** with integrated headed bushing at alternating bolt holes and scalloped profile.

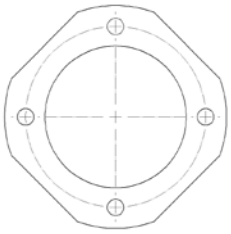
Model	Sizes
AMR / CMR*	225-750
Series 52*	225-750
Series 71-8	225-750

*Tpack style disc packs are options with these Thomas models. Series 71-8 couplings are exclusively supplied with Tpack style.

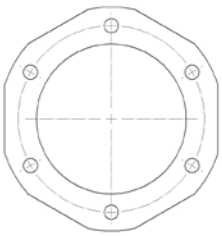


Series 71 (4- & 6-bolt)

Series 71 couplings utilize slabbed profile for reduced stiffness and improved torque transmission. The disc packs are **non-unitized,** with individual discs taped together to simplify installation.

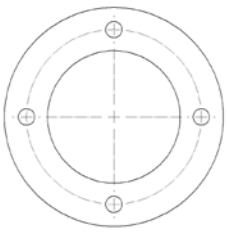


Sizes 150-175 (4 bolt holes)



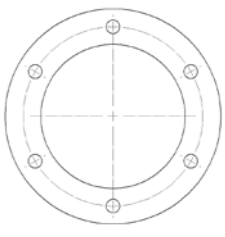
Sizes 225-600 (6 bolt holes)

Classic Round



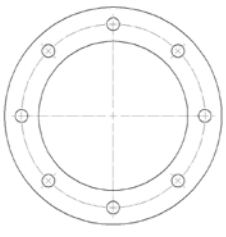
4 Bolt Holes (Even Spacing)

Model	Sizes
Series 52, 54RD & 54RDG	125
DBZ	50-126
SN / SF / SV	50-125



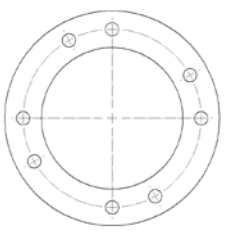
6 Bolt Holes (Even Spacing)

Model	Sizes
AMR / CMR	162-200
Series 52, 54RD & 54RDG	162-200
SN / SF / SV	162-200



8 Bolt Holes (Even Spacing)

Model	Sizes
AMR / CMR	225-1550
Series 52, 54RD & 54RDG	225-1300
SN / SF / SV	226-925T



8 Bolt Holes (4 Pairs of 2)

Model	Sizes
DBZ	163-451

Original Thomas design features round profile with evenly-spaced or paired bolt holes. The disc packs are **non-unitized**, with individual discs taped together to simplify installation.

NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

The following procedure can be used to select disc couplings for most applications.

For applications involving other than normal loading in design, special considerations must be given to coupling selection. Regal Rexnord™ application engineers are readily available for selection, advice and assistance.

1. Select coupling type.

   Refer to **page 3** and select the type of coupling to suit your application. If an application requires a special purpose coupling, refer application details to the local Regal Rexnord Representative.

2. Calculate operating torque of application.

   a. Use the following formula to calculate operating torque of application:

   i. $\text{Torque (Nm)} = \dfrac{\text{Driver Kilowatts} \times 9{,}550}{\text{Operating Speed}}$

3. Determine service factor.

   a. Find application in table on **page 7**; use the service factor value assigned to that application.

   b. Note: if application not listed, see Load Classification Table on **page 7**.

   c. Note: The service factor table considers the driven equipment only and assumes a normal electric or turbine driver. For prime movers of the reciprocating type (engines, etc) use the engine drive service factor adder on **page 7** to the selected service factor.

4. Multiply operating torque by the selected service factor to determine minimum required torque rating of coupling.

5. Find coupling in the coupling type section of catalog that meets the minimum required torque rating.

6. Verify that the selected coupling will accommodate the shaft sizes or flywheel if engine mount, of driving and driven equipment. Shaft diameters should be equal or less than published maximum bore of selected coupling.

   a. If coupling will not accommodate shaft sizes, select the next largest size that will accommodate shaft sizes.

7. Verify coupling selected can accommodate operating speed of application.

8. Check limiting data.

   a. Other data in coupling type section of catalog can be used to verify that selected coupling will work in application. Additional data can help verify application envelope of space, weight and WR^2 considerations.

IMPORTANT NOTE:
The coupling selection criteria is intended for the determination of the coupling and style only. It is also recommended that the system be analyzed for torsional and lateral stability using the specific mass elastic data available from Regal Rexnord. The analysis is the responsibility of the user since the coupling is only a single component in the system.

Rexnord Thomas Coupling Nomenclature

Use the following nomenclature guide to identify and order Thomas Disc Couplings.

Coupling Size	Type/Series		Modifications	Distance Between Shaft Ends ("C" Length)	Hub Bore
1088	XTSR71		B	9.00	3.250 x 2.50
	XTSR71	Current Adapter Series	BAL = Balanced	9.00"	110 mm x Taper
	XTSR52	Current Non-adapter Series	ES = Engineered Special	N/A	1.00 x 2.00
	DBZ	Close Coupled Series	TPR = Taper Bore	130 mm	Taper x 3.00
	AMR	Heavy Duty Fixed Spacer Series	PLT = Special Coating/Plating		etc.
	CMR	Heavy Duty Flywheel Mount Spacer Series	ELEC = Electrically Insulated		
	SR54RDG	Close Coupled Series			
	XTSRLS52	Non-adaptor Long Span Spacer Series			
	XTSRLS71	Adapter Long Span Spacer Series			
	XTSRGA	Gear Adapter Series			
	SR71	Adapter Series 6-bolt			
	SR71-8	Adapter Series 8-bolt			
	SR52	Non-adapter Spacer Series			

NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

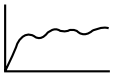
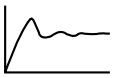
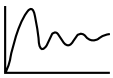
Typical Service Factors – Motor And Turbine Driven Equipment*

Application	Service Factor
AGITATORS	
Pure Liquids	1.0
Variable Density	1.5
ALTERNATOR	1.5
BLOWERS	
Centrifugal	1.0
Lobe	1.5
Vane	1.5
BRIQUETTER MACHINES	2.0
CAN FILLING MACHINES	1.0
CANE KNIVES	2.0
CAR DUMPERS	2.5
CAR PULLERS	1.5
CLAY WORKING MACHINERY	2.0
COMPRESSORS	
Centrifugal	1.0
Lobe, Vane, Screw	1.5
Reciprocating - Multi-Cylinder	Consult Regal Rexnord
Axial	1.0
CONVEYORS - uniformly loaded or fed	1.5
CONVEYORS - heavy duty - not uniformly fed	2.5
CRANES AND HOISTS	2.0
CRUSHERS	3.0
DREDGES	
Cable Reels	2.0
Conveyors	1.5
Cutter Head Drives	2.5
Jig Drives	2.5
Maneuvering Winches	2.0
Pumps	2.0
Screen Drives	2.0
Stackers	2.0
Utility Winches	1.5
ELEVATORS	
Bucket	2.0
Centrifugal Discharge	1.5
Escalators	1.5
Freight	2.0
Gravity Discharge	1.5
EXTRUDERS	
Plastic	2.0
Metal	2.5
FANS	
Centrifugal	
Forced Draft (Hostile Environment)	1.5
Induced Draft (Hostile Environment)	1.5
Axial	
Forced Draft (Hostile Environment)	1.5
Induced Draft (Hostile Environment)	1.5
Mine Ventilation	2.5
Cooling Towers	1.5
Light Duty Blower & Fans	1.0
FEEDERS	
Light Duty	1.5
Heavy Duty	2.5
FOOD INDUSTRY	
Beet Slicer	2.0
Cereal Cooker	1.5
Dough Mixer	2.0
Meat Grinders	2.0
Can Filling Machine	1.0
Bottling	1.5
GENERATORS	
Non-Welding	1.5
Welding	3.0
HAMMER MILLS	3.0
LUMBER INDUSTRY	
Barkers - Drum Type	2.5
Edger Feed	2.0
Live Rolls	2.0
Log Haul - Incline	2.0
Log Haul - Well Type	2.0
Off Bearing Rolls	2.0
Planer Feed Chains	2.0
Planer Floor Chains	2.0
Planer Tilting Hoist	2.0
Slab Conveyor	1.5
Sorting Table	1.5
Trimmer Feed	2.0
MACHINE TOOLS	
Bending Roll	2.0
Plate Planer	1.5
Punch Press - Gear Driven	2.0
Tapping Machines	2.5
Other Machine Tools	
Main Drives	1.5
Auxiliary Drives	1.5
METAL MILLS	
Draw Bench - Carriage	2.5
Draw Bench - Main Drive	2.5
Forming Machines	2.5
Slitters	2.0
Table Conveyors	
Non-Reversing	2.5
Reversing	3.0
Wire Drawing & Flattening Machine	2.0
Wire Winding Machine	2.0
MILLS, ROTARY TYPE	
Ball	2.5
Cement Kilns	2.0
Dryers & Coolers	2.0
Kilns	2.0
Pebble	2.0
Rod	2.0
Tumbling Barrels	2.0
MIXERS	
Concrete Mixers	2.0
Drum Type	2.0
OIL INDUSTRY	
Chillers	1.5
Oil Well Pumping	2.0
Paraffin Filter Press	2.0
Rotary Kilns	2.0
PAPER MILLS	
Barker Auxiliaries, Hydraulic	2.5
Barker, Mechanical	2.5
Barking Drum (Spur Gear Only)	2.5
Beater & Pulper	2.0
Bleacher	1.0
Calenders	2.0
Converting Machines, except	
Cutters, Platers	1.5
Couch	2.0
Cutters, Platers	2.0
Cylinders	2.0
Dryers	2.0
Felt Stretcher	1.5
Felt Whipper	2.0
Jordans	2.0
Log Haul	2.0
Presses	2.0
Reel	1.5
Stock Chests	1.5
Suction Roll	2.0
Washers and Thickeners	1.5
Winders	1.5
PRINTING PRESSES	1.5
PULLERS	
Barge Haul	2.0
PUMPS	
Centrifugal	
General Duty (Liquid)	1.0
Boiler Feed	1.5
Slurry (Sewage, etc.)	1.5
Dredge	2.0
Reciprocating	
Double Acting	2.0
Single Acting	
1 or 2 Cylinders	2.5
3 or more Cylinders	2.0
Rotary - Gear, Lobe, Vane	1.5
RUBBER INDUSTRY	
Mixer - Banbury	3.0
Rubber Calendar	2.0
Rubber Mill (2 or more)	2.5
Sheeter	2.0
Tire Building Machines	2.5
Tire & Tube Press Openers	1.0
Tubers and Strainers	2.0
SCREENS	
Air Washing	1.0
Rotary - Stone or Gravel	1.5
Traveling Water Intake	1.5
Vibratory	2.5
SEWAGE DISPOSAL EQUIPMENT	1.5
SEWAGE TREATMENT PUMPS	1.5
TEXTILE INDUSTRY	
Batchers	1.5
Calenders	2.0
Card Machines	1.5
Cloth Finishing Machines (washers, pads, tenters) (dryers, calenders, etc.)	1.5
Dry Cans	2.0
Dryers	1.5
Dyeing Machinery	1.5
Looms	1.5
Mangles	1.5
Nappers	1.5
Soapers	1.5
Spinners	1.5
Tenter Frames	1.5
Winders (Other than Batchers)	1.5
WINDLASS	2.0
WOODWORKING MACHINERY	1.5

*Service Factors in this table are for driven equipment based on smooth prime movers such as electric motors and turbines. For reciprocating prime movers, such as diesel or gas engines, add the following to the Service Factor:

For 8 or more cylinders, add 0.5.
For 6 cylinders, add 1.0.
For 4 cylinders, add 1.5.
For less than 4 cylinders, consult Regal Rexnord.

Service Factors – Service Factors are a means of classifying different equipment and applications into various load classifications. Due to variations in application of equipment, service factors are used to adjust equipment ratings to accommodate for variable loading conditions.

	Load Classifications	Service Factors
	Continuous service and running loads vary only slightly.	1.0
	Torque loading varies during operation of the equipment.	1.5
	Torque loading varies during operation, frequent stop/start cycles are encountered.	2.0

	Load Classifications	Service Factors
	For shock loading and substantial torque variations.	2.5
	For heavy shock loading or light reversing drives.	3.0
	Reversing torque loads do not necessarily mean reversal of rotation. Depending upon severity of torque reversal, such loads must be classified between “medium” and “extreme.”	Consult Regal Rexnord

NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

Complete steps 1 through 6 below. See **page 48** for types of fits and shaft diameters.

1. Determine quantity.
2. Determine coupling size and type.
3. Determine bore sizes. Couplings will be bored in accordance with ANSI/AGMA 9002-C14. The type of bore fit normally supplied by Regal Rexnord is listed below.

Bore Specifications

DBZ	Straight Bore – Clearance fit – stocked Straight Bore – Interference fit on bore-to-order sizes ① Taper Bore – To customer specification
AMR, CMR, SN, SF, SV, 52, 54RDG, 54RD, 71, 71-8, XTSR52, XTSR71	Straight Bore – Interference fit on all bores ① Taper Bore – To customer specification
Miniatures	See **pages 35-37**.

① Unless specified otherwise by customer.

NOTE: Regal Rexnord recommends an interference fit be used whenever possible.

4. Determine keyway and set screw sizes (if non-standard).
5. Determine dynamic balancing (if required).
6. Additional data (where applicable).
   a. Disc pack material (if other than standard).
   b. Free or interference fit on shafts (if shaft diameters are given).
   c. Complete details on tapered bore requirements, see supplemental taper bore information section below.
   d. On DBZ-A Couplings:
      1. Identify bore of standard hub and bore of extended hub.
   e. On SN, SF, and SV Couplings:
      1. Corrosion resistance class
      2. "L" dimension
      3. Dynamic balancing if required
      4. Sketch of stub shaft (SF only) if non-standard
      5. On SV, identify bore of upper hub and lower hub
      6. Operating speed required
   f. On CMR and Series 44:
      1. Adapter:
         (a) Outside diameter
         (b) Bolt circle diameter
         (c) Bolt hole diameter
         (d) Number of bolts and spacing

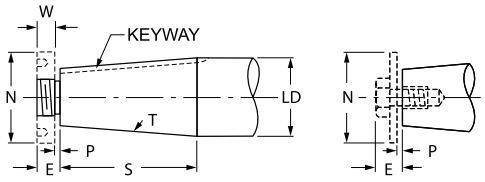
Ordering Information – Tapered Bores

Information Required

1. Drawing of hub showing complete bore and keyway details.

- OR -

2. Drawing of shaft with dimensions shown below, allowing Regal Rexnord to bore hubs to suit.



(LD) Large diameter, specify in decimals.

(S): Length of taper; measure parallel to shaft centerline.

(T): Taper per foot; difference in diameter in one foot length.

(P): Clearance space for drawing hub up on tapered shaft. Usually 1/8 in. or 1/4 in., depending on shaft size and taper.

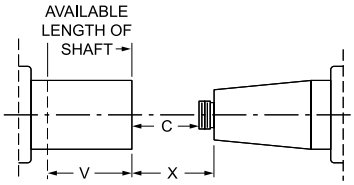
Keyway: Width, depth.

NOTE: Specify if keyway is parallel to taper or if parallel to shaft center line. Specify depth at larger diameter of taper if keyway is parallel to shaft center line.

Supplemental Taper Bore Information

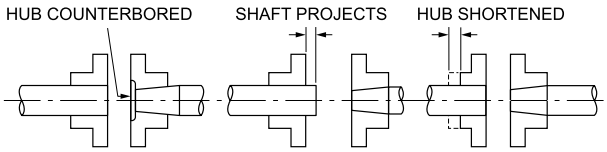
With connected equipment in fixed position, the following additional information is necessary:

Dimensions "V" and "X" must be given when one or both connected machines are fixed on their bases. Advise if dimension "X" is fixed, or if variable between what limits.



A fixed "X" dimension may require altered or special coupling hubs. Often the straight bored hub can be positioned on its shaft allowing the use of a standard coupling. See illustrations below.

Consult AGMA Standard 9002-A86 "Taper Bores for Flexible Couplings" for new applications.

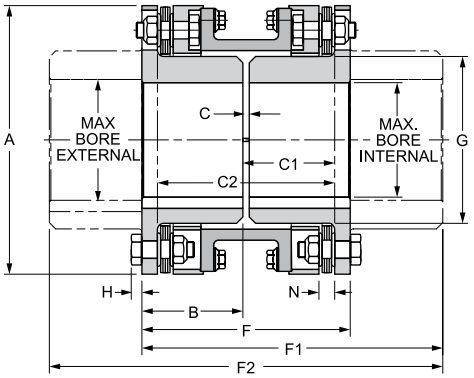


NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

Series 54RDG Close-Coupled Coupling

Series 54RDG couplings are reduced diameter gear and grid replacement couplings. Applications include any situation where the overall shaft-to-shaft spacing is minimal. The center member of the 54RDG is split axially, which permits maintenance of the couplings without moving the hubs or the connected equipment. Contrasted to the Series 54RD, the center member is piloted into the adapter providing high-speed potential at high-torque density.

When specified, Series 54RDG couplings meet all requirements of API 610 or API 671. If application requires API specification, please consult Regal Rexnord.



General

Disc Pack Style: Classic Round
Angular Misalignment: 1/3° per disc pack
Standard Balance: AGMA Class 6

Standard Materials

Disc Pack: Stainless steel (Tomaloy, Monel and Inconel available as options)
Major Components: Carbon steel
Bolts: Alloy steel

General Dimensions (mm)

Coupling Size	Max. Bore Internal	Max. Bore* External	A	B	C	C1**	F	F1**	H	N	G	C2***	F2***
125	29	34	97	47.8	3.0	44.5	98	126	4.3	6.9	45	85.9	152
162	42	50	114	47.8	3.0	45.0	98	137	4.3	7.4	59	86.9	176
200	58	58	141	53.8	3.0	49.8	111	156	5.6	9.1	83	96.5	201
225	65	70	149	55.6	3.0	51.6	114	174	5.6	9.1	89	100.1	233
262	74	84	175	65.8	4.8	61.5	136	200	6.4	11.9	105	118.1	264
312	95	97	199	72.1	4.8	66.5	149	225	7.6	12.7	127	128.3	300
350	100	110	223	83.3	6.4	77.7	173	256	5.6	13.7	140	149.1	340
375	114	120	247	90.4	6.4	82.8	187	275	6.4	15.0	154	159.3	363
425	120	130	267	100.8	6.4	91.7	208	301	7.6	15.7	167	177.0	393
450	130	140	287	114.3	7.9	105.4	236	334	11.9	18.0	178	202.9	432
500	137	146	327	121.4	7.9	109.7	251	358	12.7	19.8	200	211.6	466
550	150	166	367	136.4	9.7	123.7	282	400	14.7	23.1	222	237.7	517
600	166	176	406	152.4	9.7	137.2	314	442	17.0	24.9	237	264.7	570
700	195	205	464	177.8	9.7	158.0	365	514	19.1	30.5	276	306.3	662
750	206	224	503	196.9	12.7	177.8	406	565	21.3	32.3	299	342.9	724
800	223	241	546	209.6	12.7	187.2	432	606	23.1	34.0	318	361.7	781
850	235	250	584	225.6	14.2	202.4	465	650	25.4	35.6	335	390.7	835
925	248	267	635	251.7	15.7	226.3	519	719	27.7	38.1	359	436.9	920

* Uses Series 52 hubs. Non-bored hubs available upon request.
** Hubs may be reversed for alternate shaft spacing.
*** Both hubs reversed.

Coupling Size	Max. Kilowatt Per 100 RPM	Max. RPM		Max. Continuous Torque (Nm)	Peak Overload Torque (Nm)	② Weight (kg)	② WR^2 ($kg\text{-}m^2$)	③ Axial Capacity (mm)
	Service Factor 1.0	① As Manufactured	① Balanced					
125	3.2	4,600	10,500	305	610	3.1	0.0037	±0.91
162	6.3	4,200	9,700	604	1,209	4.2	0.0070	±0.91
200	12.4	3,800	8,600	1,185	2,370	7.3	0.0196	±0.91
225	20.7	3,700	8,400	1,976	3,952	8.6	0.0249	±0.91
262	38.8	3,600	7,400	3,706	7,412	14.1	0.0562	±1.09
312	60.8	3,000	6,700	5,803	11,606	20.9	0.112	±1.29
350	79.2	2,800	6,200	7,552	15,104	30.0	0.202	±1.42
375	118.7	2,500	5,800	11,323	22,646	40.0	0.339	±1.57
425	158.9	2,300	5,400	15,161	30,322	53.1	0.521	±1.70
450	178	2,200	5,000	16,979	33,958	69.9	0.787	±1.82
500	291.5	2,000	4,600	27,817	55,634	101.7	1.45	±2.02
550	390.9	1,900	4,200	37,300	74,600	147.1	2.62	±2.33
600	513.3	1,800	3,900	48,973	97,946	198.4	4.36	±2.59
700	798.4	1,700	3,600	76,242	152,484	298.3	8.49	±2.92
750	992.5	1,550	3,400	94,772	189,543	380.9	12.70	±3.17
800	1276.3	1,450	3,200	121,877	243,753	472.2	18.70	±3.45
850	1506.2	1,350	3,000	143,830	287,659	572.0	26.01	±3.65
925	2039.9	1,300	2,800	194,786	389,572	767.3	40.96	±3.96

① See page 4 for explanation of RPM limits and balancing recommendations.
② Weight and WR^2 with standard length hubs, maximum bore and standard "C."
③ All Thomas® disc couplings meet NEMA frame sleeve bearing motor specifications without modifications or the addition of end-float restricting devices.

NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

Series 54RD couplings are specifically designed as replacements for close-coupled gear and grid couplings. The center member of the Series 54RD is split axially, which permits maintenance of the couplings without moving the hubs or the connected equipment.

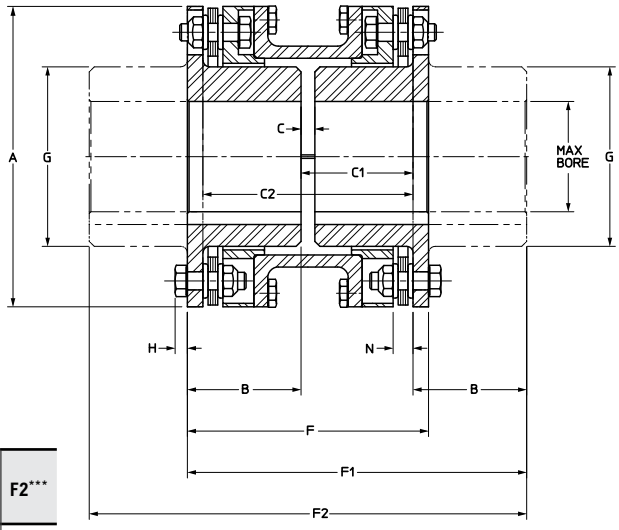
When specified, Series 54RD couplings meet all requirements of API 610. If application requires API specification, please consult Regal Rexnord.

General

Disc Pack Style: Classic Round
Angular Misalignment: 1/3° per disc pack
Standard Balance: AGMA Class 6

Standard Materials

Disc Pack: Stainless steel (Tomaloy, Monel and Inconel available as options)
Major Components: Carbon steel
Bolts: Alloy steel



General Dimensions (mm)

Cplg Size	Max Bore* Internal	Max Bore* External	A	B	C	C1**	F	F1**	H	N	G	C2***	F2***
125	29	34	94	47	3.1	43.4	97	137	4.3	6.9	44	83.8	177
162	42	50	110	48	3.1	45.0	99	140	4.3	7.4	59	86.9	182
200	58	58	138	54	3.1	50.0	111	158	5.6	9.1	83	96.5	190
225	65	70	145	56	3.1	51.6	114	163	5.6	9.1	89	100.1	211
262	74	84	168	66	4.8	61.5	136	193	6.4	11.9	105	118.1	250
312	95	97	198	72	4.8	66.6	149	211	7.6	12.7	127	128.3	273
350	100	110	221	83	6.4	77.7	173	244	8.6	13.7	140	149.1	316
375	114	120	246	90	6.4	83.1	187	264	9.9	15.0	154	159.3	340
425	120	130	267	101	6.4	91.7	208	293	10.7	15.8	167	177.0	379
450	130	140	287	114	7.9	105.7	236	334	11.9	18.0	178	203.0	432
500	137	146	327	120	7.9	108.5	248	348	12.7	19.8	200	208.5	448
550	150	166	367	135	9.7	122.2	279	392	14.7	23.1	222	234.7	504
600	166	176	406	152	9.7	136.9	314	442	17.0	24.9	236	264.7	569
700	195	205	464	178	9.7	158.0	365	514	19.1	30.2	276	306.3	662
750	206	224	503	197	12.7	177.8	406	572	21	32.3	298	342.9	737
800	223	241	546	210	12.7	187.2	432	606	23	34.0	318	361.7	781
850	235	250	584	226	14.2	202.4	465	654	25	35.6	335	390.7	842
925	248	267	635	252	15.8	226.3	519	730	28	38.1	359	436.9	940
1000	264	290	699	273	15.8	244.4	562	790	29	42.9	413	465.3	1019

* Non-bored hubs available upon request.
** Hubs may be reversed for alternate shaft spacing.
*** Both hubs reversed.
NOTE: When hub is used with barrel positioned outside of spacer, a Series 52 hub is used.

Coupling Size	Max. Kilowatt Per 100 RPM	Max. RPM		Maximum Continuous Torque (Nm)	Peak Overload Torque (Nm)	② Weight (kg)	② WR^2 (kgm^2)	① Axial Capacity (mm)
	Service Factor 1.0	As Manufactured	③ Balanced					
125	2.8	4,600	7,200	263	526	3.0	0.0035	±0.91
162	5.2	4,200	7,000	492	984	4.4	0.0070	±0.91
200	10.0	3,800	6,300	958	1,917	7.3	0.0190	±0.91
225	12.7	3,700	6,000	1,208	2,416	8.2	0.0234	±0.91
262	20.7	3,600	5,500	1,976	3,951	14.1	0.0524	±1.09
312	28.7	3,000	5,000	2,743	5,487	21.5	0.117	±1.29
350	40.3	2,800	4,500	3,850	7,699	31.0	0.207	±1.42
375	60.4	2,500	4,000	5,769	11,538	42.9	0.363	±1.57
425	85.5	2,300	3,700	8,162	16,324	56.8	0.562	±1.70
450	97.2	2,200	3,400	9,280	18,559	74.9	0.849	±1.82
500	147	2,000	3,300	13,999	27,997	109	1.586	±2.02
550	254	1,900	2,800	24,272	48,544	158	2.870	±2.33
600	318	1,800	2,500	30,368	60,736	217	4.828	±2.59
700	409	1,700	2500	39,061	78,121	324	9.334	±2.92
750	552	1,550	2,200	52,721	105,441	402	13.489	±3.17
800	686	1,450	2,100	65,478	130,955	499	19.751	±3.45
850	838	1,350	1,950	80,041	160,081	663	30.138	±3.65
925	1120	1,300	1,850	106,909	213,818	890	47.401	±3.96
1000	1537	1,200	1,750	146,760	293,520	1,108	72.272	±4.36

For larger sizes, consult Regal Rexnord.
① All Thomas® disc couplings meet NEMA frame sleeve bearing motor specifications without modifications or the addition of end-float restricting devices.
② Weight and WR^2 at maximum bore.
③ For higher speeds, consult Regal Rexnord.

NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

XTSR52 Spacer Type Coupling

XTSR52 couplings are general purpose, non-adapter style spacer disc couplings capable delivering high-speed and torque. Utilizing minimal number of components, XTSR52 couplings provide economical, low weight solution for spacer applications. For additional features, such as expanded bore capacity and “drop-in” installation, consider XTSR71 couplings.

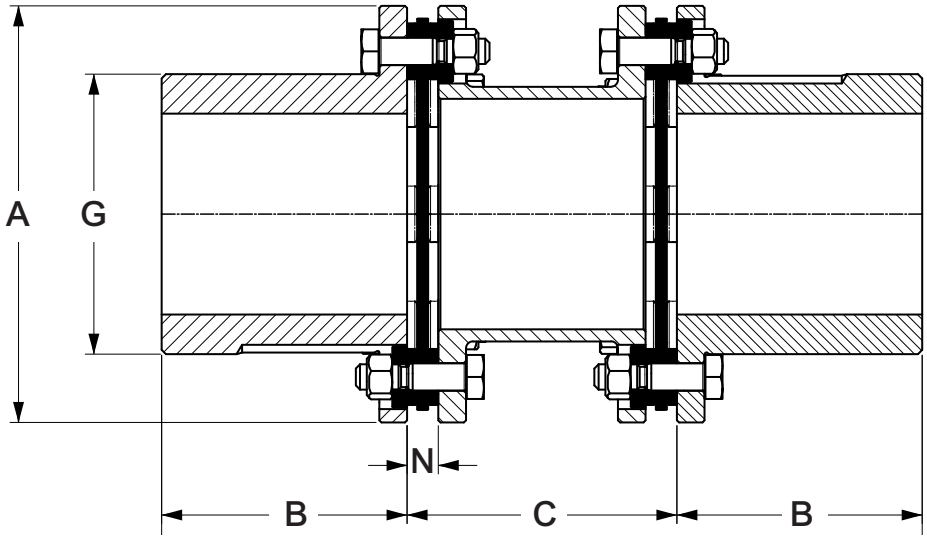
XTSR52 couplings are API 610, ISO 14691 compliant when specified, and ATEX II 2GD c T6 certified.

General

Disc Pack Style: Unitized XTSR
Angular Misalignment: 2/3° per disc pack for sizes 494 & 644, 1/2° per disc pack for sizes 726-996, and 1/3° per disc pack for sizes 1088-5258.
Standard Balance: AGMA Class 9

Standard Materials

Disc Pack: Stainless steel
Major Components: Carbon steel
Bolts: Alloy steel
Coating: Manganese Phosphate (Other coatings available upon request)



NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

General Coupling Data

Size	④ Max.Cont. Torque (N•m)	③ Std Hub Max. Bore	⑤ Min. C (mm)	⑤⑥ Max. C (mm)	Max. Speed (rpm)		① Axial Capacity (mm)	N (mm)	② WR^2 ($kg•m^2$)
					As Manufactured	Balanced			
494	85	27	82	163	13,800	23,000	±1.2	8.62	0.00048
644	145	38	82	239	12,500	21,500	±1.7	8.62	0.00114
726	297	45	82	373	12,000	20,000	±1.3	8.62	0.00192
826	554	50	88	374	10,900	18,500	±1.5	9.34	0.00449
996	927	60	98	781	9,800	15,000	±1.8	9.59	0.00955
1088	2,190	65	103	783	9,000	14,000	±1.3	10.36	0.0188
1298	3,550	80	116	788	8,000	12,000	±1.6	12.92	0.0444
1548	5,910	95	128	792	7,100	10,000	±1.8	14.79	0.0985
1698	8,190	105	152	794	6,600	9,100	±2.0	15.79	0.166
1928	11,100	120	160	796	6,100	8,500	±2.3	17.08	0.283
2068	15,400	130	176	799	5,800	7,800	±2.5	18.42	0.430
2278	19,900	140	213	800	5,500	7,100	±2.7	19.17	0.711
2468	26,200	150	222	803	5,200	6,500	±3.0	20.49	1.04
2698	35,900	165	238	1,114	4,800	6,000	±3.2	23.46	1.62
2888	47,000	175	270	1,117	4,600	5,700	±3.5	25.18	2.51
3058	52,000	185	270	1,117	4,400	5,400	±3.7	25.18	3.24
3358	70,200	215	302	1,121	4,200	4,700	±4.0	27.34	5.19
3668	94,300	225	321	1,128	3,900	4,400	±4.4	30.38	8.53
3908	103,000	240	321	1,128	3,800	4,100	±4.7	30.38	11.0
4178	128,000	255	343	1,132	3,600	3,900	±5.0	32.43	15.4
4588	189,000	280	498	1,037	3,400	3,600	±5.5	35.95	26.6
4918	235,000	300	518	1,041	3,200	3,300	±5.9	38.12	37.9
5258	283,000	320	540	1,046	3,100	3,100	±6.3	40.29	52.4

Size	Std A (mm)	Std B (mm)	Std G (mm)	② Std Weight (kg)	Weight Change Per mm of "C" (kg/mm)
494	70	20	41	0.88	0.00163
644	85	25	56	1.35	0.00302
726	95	30	63.8	1.77	0.00363
826	108	50	71.8	3.34	0.00562
996	129	50	84.4	4.78	0.00510
1088	140	81	92.1	8.34	0.00983
1298	166	97	110.6	13.6	0.0123
1548	197	97	132.4	20.8	0.0176
1698	218	110	146.9	29.0	0.0219
1928	245	110	167.7	38.2	0.0268
2068	264	125	178.6	49.9	0.0339
2278	291	145	196.7	69.7	0.0395
2468	313	150	213.5	87.3	0.0475
2698	343	150	232.1	111	0.0606
2888	371	175	246.0	150	0.0777
3058	395	185	263.0	172	0.0771
3358	427	245	288.1	232	0.0958
3668	466	281	315.2	329	0.117
3908	490	303	339.2	381	0.115
4178	524	322	361.1	468	0.134
4588	587	350	392.1	661	0.188
4918	630	375	420.3	817	0.222
5258	672	401	449.5	991	0.248

① All Thomas® disc couplings meet NEMA frame sleeve bearing motor specifications without modification or the addition of end-float restricting devices.
② Weight and WR^2 of couplings without adapters at maximum bore and minimum "C" dimension listed.
③ Consult Regal Rexnord for minimum rough bore sizes.
④ Peak Overload Torque (N • m) is twice the Maximum Continuous Torque.
⑤ Consult Regal Rexnord for C lengths less than Min. C listed.
⑥ If larger C lengths are required than the listed Max., refer to XTSRLS52 page.

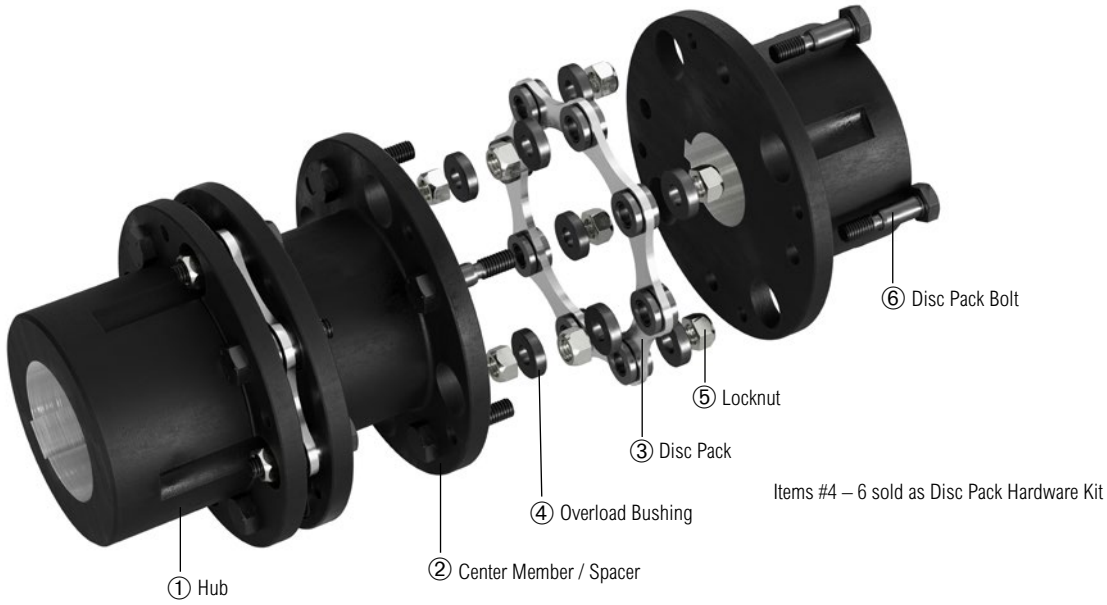
NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

Standard C Dimensions - Imperial and Metric

Size	Inch Standard C Dimensions						
	3.5"	3.75"	5.0"	7.0"	8.0"	9.0"	10.0"
494	X	X	X				
644	X	X	X	X			
726	X	X	X	X			
826	X		X	X			
996			X	X			
1088			X	X			X
1298			X	X			X
1548				X			X
1698				X	X	X	X
1928				X	X		X
2068					X	X	X
2278					X	X	
2468						X	
2698							X

Metric Standard C Dimensions				
100mm	140mm	180mm	250mm	300mm
X	X			
X	X			
X	X	X	X	
X	X	X	X	
X	X	X	X	
	X	X	X	X
	X	X	X	X
	X	X	X	X
		X	X	X
		X	X	X
			X	X
			X	X
			X	X

NOTE: C Dimension corresponds to nominal shaft spacing and differs from the spacer / center member length.



Items #4 – 6 sold as Disc Pack Hardware Kit

NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

XTSR71 Spacer Type Coupling with Adapters

XTSR71 couplings are adapter-style spacer disc couplings that leverage optimized three-piece design, consisting of two hubs and factory-assembled center member, to greatly simplify installation and maintenance. The hubs are pilot fitted into the adapters to provide excellent dynamic balance characteristics. Common engineered solutions such as torque overload protection, electrically insulated, torsional tuning, spark resistant and alloy steel construction are available upon request.

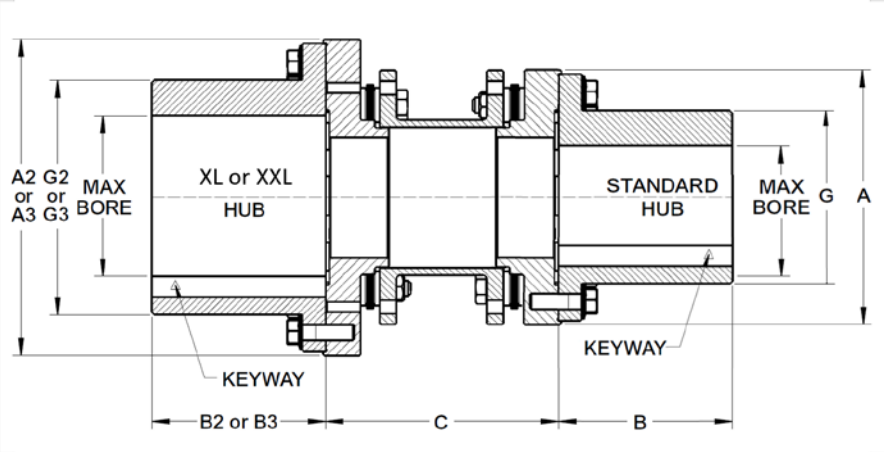
Designed for critical spacer-type applications, XTSR71 couplings are API 610 / ISO 14691 compliant as standard, API 671 (ISO 10441) compliant when specified, and ATEX II 2GD c T6 certified.

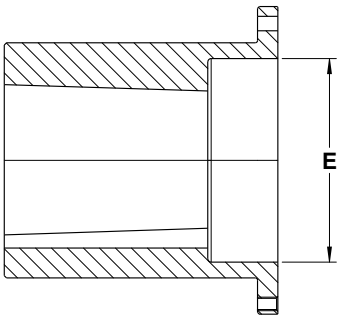
General

Disc Pack Style: Unitized XTSR
Angular Misalignment: 2/3° per disc pack for sizes 494 & 644, 1/2° per disc pack for sizes 726-996, and 1/3° per disc pack for sizes 1088-5258.
Standard Balance: AGMA Class 9

Standard Materials

Disc Pack: Stainless steel
Major components: Carbon steel
Bolts: Alloy steel





NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

Example Selection:

1. Select coupling size 1088 for 2,000 N·m torque and 65 mm pump shaft diameter.
2. Select XXL 2nd hub for 100 mm motor shaft diameter.
3. Therefore, coupling is a 1088 XTSR71 XXL.

A 1088 XTSR71 XXL has one hub with 76 mm max bore and one hub with 105mm max bore.

General Coupling Data

An optional one size larger XL hub or two sizes larger XXL hub is available to increase bore capacity.

Size	Max.Cont. Torque (N•m) ⑤	③ Std Hub Max. Bore	③ XL Hub Max. Bore	③ XXL Hub Max. Bore	Min. C (mm)	⑥⑦ Max. C (mm)	Max. Speed (rpm)		① Axial Capacity (mm)	Max Counter Bore E (mm)
							As Manufatured	Balanced		
494	85	28	38	42	65	162	13,800	23,000	±1.2	32
644	145	38	–	52	68	266	12,500	21,500	±1.7	47
726	297	42	52	61	65	398	12,000	20,000	±1.3	52
826	554	52	61	76	77	404	10,900	18,500	±1.5	65
996	927	61	76	90	92	819	9,800	15,000	±1.8	76
1088	2,190	76	90	105	96	821	9,000	14,000	±1.3	88
1298	3,550	90	105	125	115	834	8,000	12,000	±1.6	104
1548	5,910	105	125	135	135	846	7,100	10,000	±1.8	123
1698	8,190	125	135	150	151	856	6,600	9,100	±2.0	142
1928	11,100	135	150	155	161	861	6,100	8,500	±2.3	156
2068	15,400	150	155	166	187	877	5,800	7,800	±2.5	170
2278	19,900	155	166	200	196	881	5,500	7,100	±2.7	188
2468	26,200	166	200	220	209	889	5,200	6,500	±3.0	199
2698	35,900	200	220	235	236	1,211	4,800	6,000	±3.2	246
2888	47,000	220	235	260	255	1,221	4,600	5,700	±3.5	271
3058	52,000	235	260	285	257	1,222	4,400	5,400	±3.7	298
3358	70,200	260	285	310	287	1,239	4,200	4,700	±4.0	314
3668	94,300	285	310	330	310	1,254	3,900	4,400	±4.4	354
3908	103,000	310	330	360	311	1,255	3,800	4,100	±4.7	377
4178	128,000	330	360	400	340	1,272	3,600	3,900	±5.0	397
4588	189,000	360	400	430	386	1,197	3,400	3,600	±5.5	450
4918	235,000	400	430	–	408	1,209	3,200	3,300	±5.9	487
5258	283,000	430	–	–	438	1,227	3,100	3,100	±6.3	512

Size	Std A (mm)	XL A2 (mm)	XXL A3 (mm)	Std B (mm)	XL B2 (mm)	XXL B3 (mm)	Std G (mm)	XL G2 (mm)	XXL G3 (mm)	② Std Weight (kg)	Weight Change Per mm of "C" (kg/mm)	② WR² (kg•m²)
494	70	85	95	20	25	35	42	58	59	1.6	0.00157	0.00092
644	85	–	108	25	–	42	58	–	73	2.5	0.00242	0.00223
726	95	108	129	35	42	51	59	73	86	3.1	0.00311	0.00364
826	108	129	140	42	51	82	73	86	104	5.0	0.00535	0.00770
996	129	140	166	51	82	95	86	104	123	8.4	0.00503	0.01880
1088	140	166	199	82	95	114	104	123	145	12.5	0.00966	0.0336
1298	166	199	220	95	114	122	123	145	165	20.6	0.0118	0.0796
1548	199	220	245	114	122	135	145	165	182	34.6	0.0161	0.1890
1698	220	245	264	122	135	155	165	182	200	47.0	0.0214	0.318
1928	245	264	291	135	155	167	182	200	220	62.7	0.0251	0.533
2068	264	291	313	155	167	190	200	220	236	84.9	0.0325	0.840
2278	291	313	345	167	190	185	220	236	280	110	0.0378	1.300
2468	313	345	381	190	185	200	236	280	308	143	0.0451	1.94
2698	345	381	405	185	200	191	280	308	332	184	0.0572	3.30
2888	381	405	437	200	191	225	308	332	355	257	0.0716	5.35
3058	405	437	482	191	225	257	332	355	398	274	0.0723	6.80
3358	437	482	503	225	257	249	355	398	419	366	0.0907	10.40
3668	482	503	529	257	249	266	398	419	444	521	0.111	17.60
3908	503	529	608	249	266	300	419	444	504	536	0.111	20.9
4178	529	608	648	266	300	320	444	504	545	648	0.130	28.1
4588	608	648	678	300	320	346	504	545	575	993	0.179	54.2
4918	648	678	–	320	346	–	545	575	–	1,200	0.210	76.0
5258	678	–	–	346	–	–	575	–	–	1,420	0.235	99.9

① All Thomas® disc couplings meet NEMA frame sleeve bearing motor specifications without modification or the addition of end-float restricting devices.
② Weight and WR2 of couplings with standard adapters at maximum bore and minimum "C" dimension listed.
③ Consult Regal Rexnord for minimum rough bore sizes.
④ Peak Overload Torque (lb • in) is twice the Maximum Continuous Torque.
⑤ Consult Regal Rexnord on C lengths greater than 889 mm for sizes 2698-5258.
⑥ If larger C lengths are required than the listed maxes, refer to XTSRLS71 page.

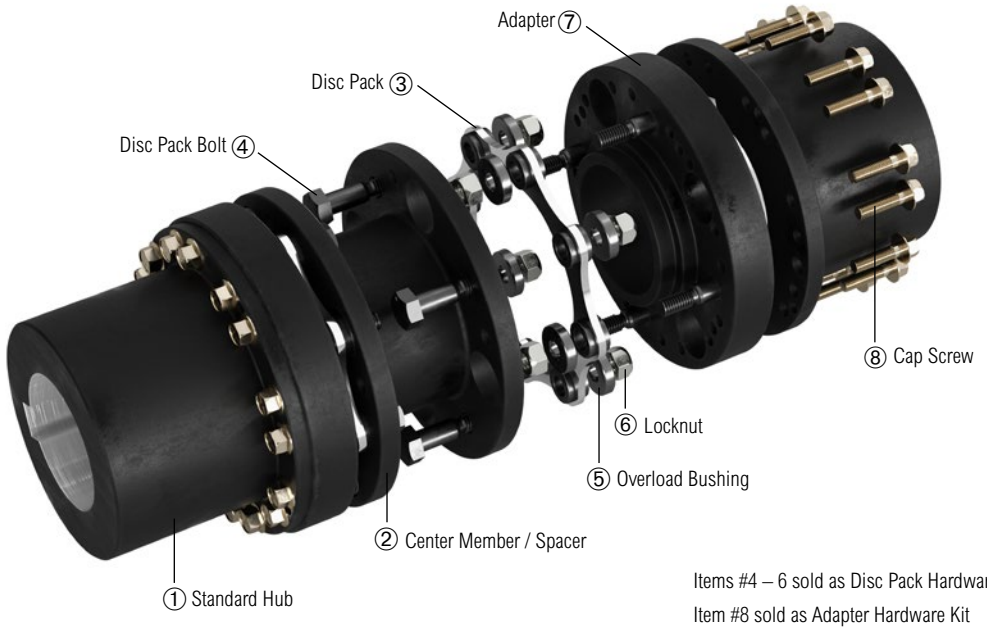
NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

Standard C Dimensions - Imperial and Metric

Size	Inch Standard C Dimensions						
	3.5"	3.75"	5.0"	7.0"	8.0"	9.0"	10.0"
494	x	x	x				
644	x	x	x	x			
726	x	x	x	x			
826	x		x	x			
996			x	x			
1088			x	x			x
1298			x	x			x
1548				x			x
1698				x	x	x	x
1928				x	x		x
2068					x	x	x
2278					x	x	
2468						x	
2698							x

Metric Standard C Dimensions				
100mm	140mm	180mm	250mm	300mm
x	x			
x	x			
x	x	x	x	
x	x	x	x	
x	x	x	x	
	x	x	x	x
	x	x	x	x
	x	x	x	x
		x	x	x
		x	x	x
			x	x
			x	x
			x	x

NOTE: C Dimension corresponds to nominal shaft spacing and differs from the spacer / center member length.

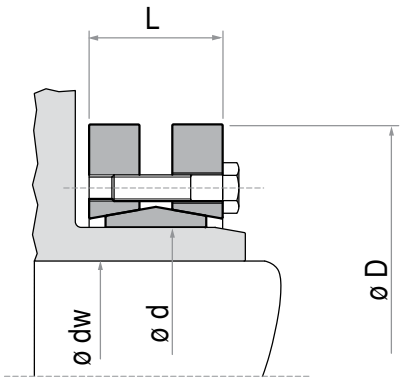


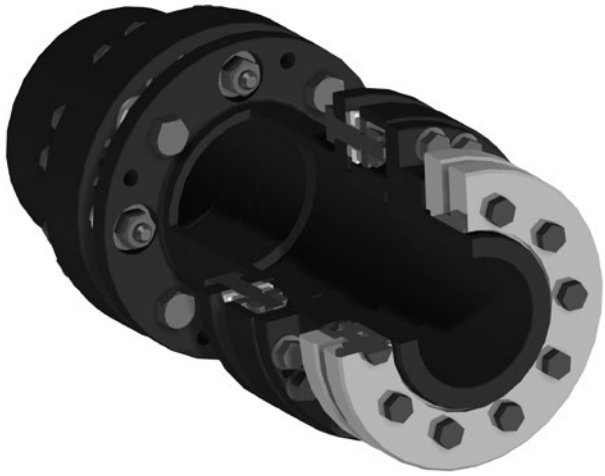
Items #4 – 6 sold as Disc Pack Hardware Kit
Item #8 sold as Adapter Hardware Kit

NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

Optional Tollok TLK 603 External Shrink Disc

Eliminates need for keyed connection
Faster installation and removal
Backlash-free torque transmission
Limits shaft-hub axial movement





TLK 603 shown mounted on XTSR71 coupling

TLK 603

Tollok TLK 603 Ød (mm)	Shaft O.D. Ødw		Max. Continous Torque (N·m)		Tollok Data			XTSR71 Coupling Size											
	Min (mm)	Max (mm)	at Min dw	at Max dw	ØD (mm)	L (mm)	Weight (kg)	726	826	996	1088	1298	1548	1698	1928	2068	2278	2468	2698
30	24	26	300	380	60	21.5	0.3												
36	28	31	440	630	72	23.5	0.4												
44	32	36	620	860	80	25.5	0.6												
50	38	42	940	1,380	90	27.5	0.8												
55	42	48	1,160	1,880	100	30.5	1.1												
62	48	52	1,850	2,400	110	30.5	1.3												
68	50	60	2,000	3,150	115	30.5	1.4												
75	55	65	2,500	3,950	138	32.5	1.7												
80	60	70	3,200	4,600	145	32.5	1.9												
85	65	75	4,800	7,400	155	39.0	3.5												
90	65	75	4,750	7,250	155	39.0	3.3												
100	70	80	6,900	9,000	170	44.0	4.7												
110	75	85	7,200	10,800	185	50.0	5.9												
115	80	90	7,400	11,100	188	50.0	5.5												
120	80	90	10,600	14,500	215	54.0	9.0												
125	85	95	11,000	15,000	215	54.0	8.3												
130	90	100	11,300	15,400	215	54.0	8.0												
140	95	105	15,100	20,100	230	60.5	10.0												
155	105	115	22,000	28,000	265	64.5	15.0												
160	110	120	22,600	28,800	265	64.5	14.5												
140	115	125	31,000	39,000	290	71.0	22.0												
155	120	130	31,900	40,100	290	71.0	21.0												
175	125	135	36,000	45,000	300	71.0	22.0												
140	130	140	37,000	46,300	300	71.0	21.0												
155	135	145	52,000	62,000	330	86.0	37.0												
190	140	150	53,500	63,800	330	86.0	36.0												
140	140	155	65,000	81,500	350	86.0	41.0												
155	150	160	74,000	86,000	350	86.0	41.0												
220	160	170	95,000	110,000	370	104.0	54.0												
240	170	190	120,000	156,000	405	109.0	67.0												

Available In These Sizes

Identified selections meet minimum bore, maximum bore and are equal to or greater than coupling size peak overload torque rating.

NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

AMR Spacer Coupling

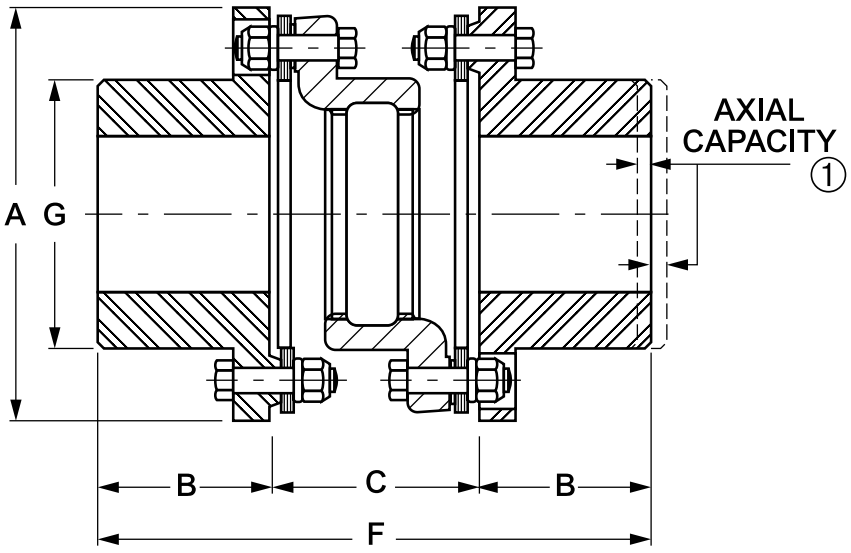
AMR couplings are fixed spacer type used in heavy-duty, slow-to-medium speed applications, where high-starting torque, shock loads, torque reversals or continuous alternating torque are present. They are suitable for shaft-to-shaft connections, such as found in motor-driven compressor applications. For flywheel adapter connections, see CMR couplings.

General

Disc Pack Style: Classic Round (Tpack available as option)
Angular Misalignment: 1/3° per disc pack

Standard Materials

Disc Pack: Tomaloy (Stainless steel, Monel and Inconel available as options)
Hubs: Carbon steel (Keyless hub connections may use special material)
Spacer: Sizes 162-750 are cast alloy iron, sizes 800 and larger are cast steel
Bolts: Alloy steel



NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

General Dimensions (mm)

Coupling Size	④ Rough Bore	⑥ Max. Bore (mm)	A	B	C	F	G
162	–	50	116	44	67	156	70
200	–	58	146	54	76	184	92
225	–	70	152	64	76	203	99
262	–	84	175	73	89	235	114
312	–	97	206	86	105	277	138
350	–	110	232	95	116	307	152
375	–	120	256	102	132	335	165
425	–	130	279	108	141	357	178
450	–	140	302	114	151	379	189
500	68	146	341	127	173	427	213
550	68	166	381	140	196	475	240
600	94	176	425	152	214	519	262
700	108	205	481	178	245	601	298
750	125	224	524	184	268	636	321
800	132	241	568	197	289	682	349
850	138	250	603	210	309	728	368
925	151	267	654	229	337	794	403
1000	165	290	718	241	368	850	445
1100	178	314	768	260	394	914	470
1200	191	339	848	279	433	992	514
1300	203	376	914	305	465	1075	572
1550	216	394	997	368	494	1230	660

Coupling Size	Max. Kilowatt per 100 RPM / Service Factor 1.0	③ Max. Speed (rpm)	Max. Continuous Torque (Nm)	⑦ Peak Overload Torque (Nm)	② Weight (kg)	② ⑤ WR^2 ($kg\text{-}m^2$)	① Axial Capacity (mm)
162	6.8	2,500	648	778	3.6	0.005	±0.91
200	13	2,500	1,245	1,494	7.3	0.017	±0.91
225	18.4	2,500	1,758	2,110	9.1	0.022	±0.91
262	24.9	2,500	2,375	2,850	14.5	0.047	±1.09
312	28	2,500	2,670	3,204	21.3	0.107	±1.29
350	62.4	2,300	5,961	7,153	32.2	0.193	±1.42
375	93.9	2,200	8,968	10,762	41.8	0.300	±1.57
425	104	2,000	9,935	11,921	53.1	0.465	±1.70
450	161	1,900	15,367	18,441	65.4	0.658	±1.82
500	237	1,800	22,663	27,196	96.2	1.241	±2.02
550	325	1,800	31,052	37,262	131.7	2.113	±2.33
600	424	1,800	40,514	48,617	176.6	3.511	±2.59
700	540	1,500	51,535	61,842	266.5	6.671	±2.92
750	763	1,500	72,808	87,369	327.8	9.919	±3.17
800	962	1,200	91,869	110,243	425.9	16.27	±3.45
850	1063	1,100	101,456	121,748	522.1	22.12	±3.65
925	1515	1,000	144,647	173,576	635.6	29.85	±3.96
1000	1758	900	167,893	201,472	863	50.33	±4,36
1100	2419	800	230,978	277,173	1,035	71.69	±4,64
1200	2604	650	248,611	298,334	1,357	115.3	±5,15
1300	2822	600	269,474	323,369	1,771	164.1	±5,53
1550	3693	600	352,676	423,211	2,338	260.1	±6,14

① All Thomas® disc couplings meet NEMA frame sleeve bearing motor specifications without modification or the addition of end-float restricting devices.
② Weight and WR^2 at maximum bore.
③ Consult Regal Rexnord if balancing is required.
④ Consult Regal Rexnord for minimum rough bore on size 162-450.
⑤ Special hub available for size 600 with 6 ¾ max. bore. Consult Regal Rexnord.
⑥ Straight bores with no keyway require a special material hub. Consult Regal Rexnord.
⑦ The peak overload torque is not an alternating torque limit.

NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

CMR Flywheel Adapter Coupling

CMR couplings are fixed spacer type used in heavy-duty, slow-to-medium speed applications, where high-starting torque, shock loads, torque reversals or continuous alternating torque are present. They are designed with a flywheel adapter plate which bolts directly to the flywheel of an engine or compressor. The adapters are made to fit accurately into the recess in the flywheel, which minimize external strains on the crankshaft resulting from equipment misalignment.

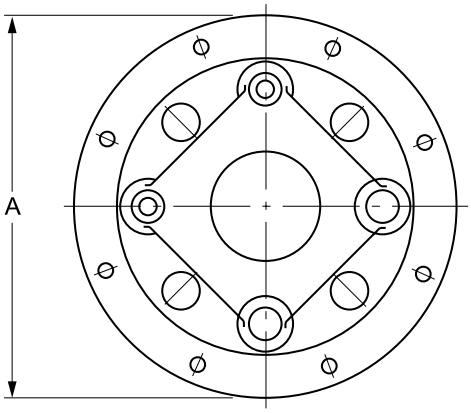
For greater speed, balance, and torque capabilities, or API compliance see Series 44 coupling.

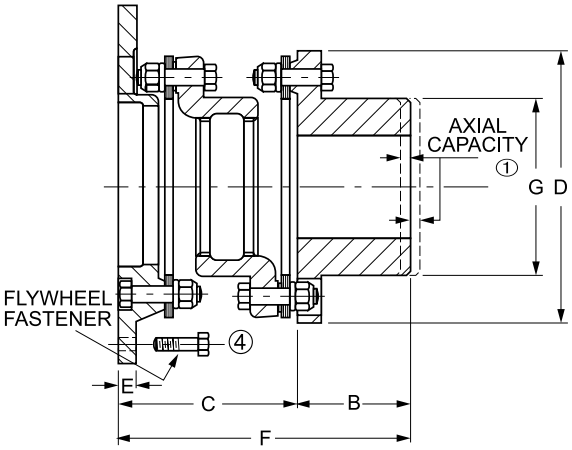
General

Disc Pack Style: Classic Round (Tpack available as option)
Angular Misalignment: 1/3° per disc pack

Standard Materials

Disc Pack: Tomaloy (Stainless steel, Monel and Inconel available as options)
Hubs and Flywheel Adapter: Carbon steel (Keyless hub connections may use special material)
Spacer: Sizes 162-750 are cast alloy iron, sizes 800 and larger are cast steel
Bolts: Alloy steel





Flywheel Adapter Information

Adapters can be furnished to accommodate virtually any flange design. Where possible, the user should select dimensions from the tables below, as these represent industry standards and thus are the most economical selection. Note that most sizes are available either with SAE bolting or Thomas® heavy-duty bolting.

Available Adapters

Coupling Size	Adapters Available in Shaded Sizes (mm)										
Adapter Tolerance	215.900 215.849	241.300 241.249	263.525 263.474	314.325 314.274	352.425 352.374	406.400 406.349	466.725 466.674	517.525 517.449	571.500 571.424	673.100 673.024	733.425 733.349
162	■	■	■	■							
200	■	■	■	■	■						
225	■	■	■	■	■						
262	■	■	■	■	■	■	■	■	■		
312				■	■	■	■	■	■		
350				■	■	■	■	■	■		
375				■	■	■	■	■	■		
425					■	■	■	■	■	■	
450						■	■	■	■	■	
500						■	■	■	■	■	■
550							■	■	■	■	■
600							■	■	■	■	■
700								■	■	■	■
750										■	■
800										■	■
850											■

Available In These Sizes

Sizes 925 to 1550 - Adapting dimensions available upon request.

Bolting

Standard A Diameter (mm)	Light-Duty SAE Bolting			Heavy-Duty Thomas Bolting		
	Bolt Circle	No. Holes	Hole Dia.	Bolt Circle	No. Holes	Hole Dia.
215.90	200.2	6	8.6	190.5	8	10.4
241.30	222.3	8	8.6	219.0	8	11.9
263.65	244.4	6	10.4	241.3	8	11.9
314.45	295.2	8	10.4	292.1	8	13.5
352.55	333.3	8	10.4	317.5	8	16.8
406.40	–	–	–	365.3	8	19.8
466.85	438.2	8	13.5	425.5	8	19.8
517.65	489.0	8	13.5	469.9	8	23.1
571.50	543.1	6	16.8	520.7	8	26.2
673.10	641.4	12	16.8	622.3	12	26.2
733.55	692.2	12	19.8	682.8	12	26.2

NOTE: values are metric conversions of standard SAE Inch series diameters, bolt circle diameters and bolt holes.

NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

General Dimensions (mm)

Coupling Size	⑦ Rough Bore	② Max. Bore (mm)	Min. "A" Dia.	B	C	D	E	F	G
162	–	50	158.8	44	84	116	7.9	129	70
200	–	58	187.5	54	97	146	9.7	151	92
225	–	70	193.5	64	98	152	9.7	162	99
262	–	84	215.9	73	114	175	11.2	187	114
312	–	97	241.3	86	136	206	12.7	221	138
350	–	110	276.4	95	149	232	12.7	244	152
375	–	120	301.8	102	168	256	14.2	270	165
425	–	130	333.2	108	181	279	15.7	289	178
450	–	140	374.7	114	194	302	17.5	308	189
500	68	146	406.4	127	222	341	19.1	349	213
550	68	166	457.2	140	251	381	22.4	391	240
600	94	176	466.9	152	276	425	25.4	429	262
700	108	205	517.7	178	316	481	25.4	494	298
750	125	224	609.6	184	344	524	28.4	528	321
800	132	241	650.7	197	374	568	31.8	571	349
850	138	250	685.5	210	403	603	31.8	612	368
925	151	267	733.6	229	438	654	35.1	666	403
1000	165	290	803.1	241	472	718	41.1	713	445
1100	178	314	847.9	260	503	769	44.5	764	470
1200	191	339	952.5	279	548	861	50.8	827	514
1300	203	376	1,013.0	305	592	914	53.8	897	562
1550	216	394	1,107.9	368	603	997	53.8	972	660

Coupling Size	Max. Kilowatt per 100 RPM Service Factor 1.0	③ Max. Speed (rpm)	Max. Continuous Torque (Nm)	⑧ Peak Overload Torque (Nm)	⑤ ⑥ Weight (kg)	⑤ WR^2 ($kg\text{-}m^2$)	① Axial Capacity
162	6.8	2,500	648	778	3.6	0.005	±0.91
200	13	2,500	1,245	1,494	7.3	0.017	±0.91
225	18	2,500	1,758	2,110	9.1	0.022	±0.91
262	25	2,500	2,375	2,850	14.5	0.047	±1.09
312	28	2,500	2,670	3,204	21.3	0.107	±1.29
350	62	2,300	5,961	7,153	32.2	0.193	±1.42
375	94	2,200	8,968	10,762	41.8	0.300	±1.57
425	104	2,200	9,935	11,921	53.1	0.465	±1.70
450	161	1,900	15,367	18,441	65.4	0.658	±1.82
500	237	1,800	22,663	27,196	96.2	1.241	±2.02
550	325	1,800	31,052	37,262	131.7	2.113	±2.33
600	424	1,800	40,514	48,617	176.6	3.511	±2.59
700	540	1,500	51,535	61,842	266.5	6.671	±2.92
750	763	1,500	72,808	87,369	327.8	9.919	±3.17
800	962	1,200	91,869	110,243	425.9	16.269	±3.45
850	1063	1,100	101,456	121,748	522.1	22.121	±3.65
925	1515	1,000	144,647	173,576	635.6	29.845	±3.96
1000	1758	900	167,893	201,472	749.1	45.645	±4,36
1100	2419	800	230,978	277,173	885.3	72.272	±4,64
1200	2604	650	248,611	298,334	1157.7	119.088	±5,15
1300	2822	600	269,474	323,369	1507.3	165.904	±5,53
1550	3693	600	352,676	423,211	1861.4	245.784	±6,14

① All Thomas® disc couplings meet NEMA frame sleeve bearing motor specifications without modification or the addition of end-float restricting devices.
② Straight bores with no keyway require special material.
③ Maximum speeds are based on smallest available adapter O.D. For higher speeds, consult Regal Rexnord.
④ Flywheel bolts are not supplied with coupling.
⑤ Weight and WR^2 at maximum bores and minimum adapter diameter.
⑥ Special hub available for size 600 with 6.75 in. max. bore. Consult Regal Rexnord.
⑦ Consult Regal Rexnord for minimum rough bore on sizes 162-450.
⑧ The peak overload torque is not an alternating torque limit.

NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

Series 44 Flywheel Adapter Type Spacer Coupling

Series 44 is an all-steel, fully machined flywheel adapter style coupling. It is used in heavy-duty applications where high starting torque, shock loads, torque reversals or alternating torques are present. This coupling is similar to the type CMR, but with the following benefits:

- Spacer (Dimension "C") is adjustable to meet specific spacing requirements and/or to make adjustment to torsional characteristics.
- The all-steel design provides a higher maximum continuous and peak overload torque rating. Fully machined components offer a higher operating speed and balancing level.

When specified, Series 44 couplings meet all requirements of API 610 or API 671.

General

Disc Pack Style: Classic Round (Tpack available as option)
Angular Misalignment: 1/3° per disc pack

Standard Materials

Disc Pack: Tomaloy (Stainless steel, Monel and Inconel available as options)
Major components: Carbon steel
Bolts: Alloy steel
Coating Options: Black Oxide, Zinc, Cadmium

Flywheel to Adapter Bolt Patterns

Standard A Diameter (in)	Light-Duty SAE Bolting			Heavy-Duty Thomas Bolting		
	Bolt Circle	No. Holes	Size (Dia.)	Bolt Circle	No. Holes	Size (Dia.)
314.5	295.2	8	10.4	292.1	8	13.5
352.6	333.3	8	10.4	317.5	8	16.8
406.4	N/A	N/A	N/A	365.3	8	19.8
466.9	438.2	8	13.5	425.5	8	19.8
517.7	489.0	8	13.5	469.9	8	23.1
571.5	543.1	6	16.8	520.7	8	26.2
673.1	641.4	12	16.8	622.3	12	26.2
733.6	692.2	12	19.8	682.8	12	26.2

All dimensions listed are in millimeters and bolt holes are equally spaced.

NOTE: values are metric conversions of standard SAE inch series diameters, bolt circle diameters and bolt holes.

Flywheel Adapter Information*

Adapters can be furnished to accommodate most flange designs. Where possible, the user should select dimensions from the tables shown, as these represent industry standards that are more economical and readily available. Note that most sizes can be supplied with either SAE light-duty bolting or Thomas® heavy-duty bolting. Please contact Regal Rexnord for custom designs.

Coupling Size	Minimum Adapter "A" Dia.	① Standard Available Adapter Diameters (mm) - Actual OD Tolerance as Listed							
		314.3	352.4	406.4	466.7	517.5	571.5	673.1	733.4
		314.3	352.4	406.3	466.7	517.4	571.4	673.0	733.3
350	276.4	Wt. = 3.88 WR^2 = 132	Wt. =8.25 WR^2 = 320	Wt. = 15.3 WR^2 = 716	Wt. = 24.4 WR^2 = 1,391	Wt. = 33 WR^2 = 2,200	Wt. = 43.1 WR^2 = 3,365		
375	301.8	Wt. = 1.51 WR^2 = 56	Wt. = 6.41 WR^2 =267	Wt. = 14.3 WR^2 = 710	Wt. = 24.5 WR^2 = 1,466	Wt. = 34.1 WR^2 = 2,371	Wt. = 45.5 WR^2 = 3,681		
425	333.3		Wt. = 2.79 WR^2 = 127	Wt. = 11.5 WR^2 = 616	Wt. = 22.8 WR^2 = 1,453	Wt. = 33.5 WR^2 = 2,460	Wt. = 46 WR^2 = 3,901		
450	374.7			Wt. = 5.89 WR^2 = 349	Wt. = 18.4 WR^2 = 1,277	Wt. = 30.3 WR^2 = 2,396	Wt. = 44.3 WR^2 = 4,008	Wt. = 74.3 WR^2 = 8,543	
500	406.4			Wt. = 0 WR^2 = 0 ①	Wt. = 13.6 WR^2 = 1,009	Wt. = 26.5 WR^2 = 2,223	Wt. = 41.7 WR^2 = 3,973	Wt. = 74.4 WR^2 = 8,912	Wt. = 96.3 WR^2 = 13,118
550	457.2				Wt. = 2.67 WR^2 = 221	Wt. = 17.8 WR^2 = 1,645	Wt. = 35.6 WR^2 = 3,695	Wt. = 74 WR^2 = 9,493	Wt. = 99.7 WR^2 = 14,429
600	466.9				Wt. = 0 WR^2 = 0 ①	Wt. = 17.2 WR^2 = 1,618	Wt. = 37.5 WR^2 = 3,956	Wt. = 81 WR^2 = 10,529	Wt. = 110 WR^2 = 16,107
700	517.7					Wt. = 0 WR^2 = 0 ①	Wt. = 20.3 WR^2 = 2,338	Wt. = 63.8 WR^2 = 8,911	Wt. = 93 WR^2 = 14,519
750	609.6							Wt. = 31.4 WR^2 = 5,017	Wt. = 64.2 WR^2 = 11,313
800	650.8							Wt. = 12.7 WR^2 = 2,157	Wt. = 49.2 WR^2 = 9,166
850	695.5								Wt. = 23.4 WR^2 = 4,631
925	733.5								Wt. = 0 WR^2 = 0 ①
1000	803.2	No industry standards exist for adapters to fit couplings this size or larger. Consult Regal Rexnord.							

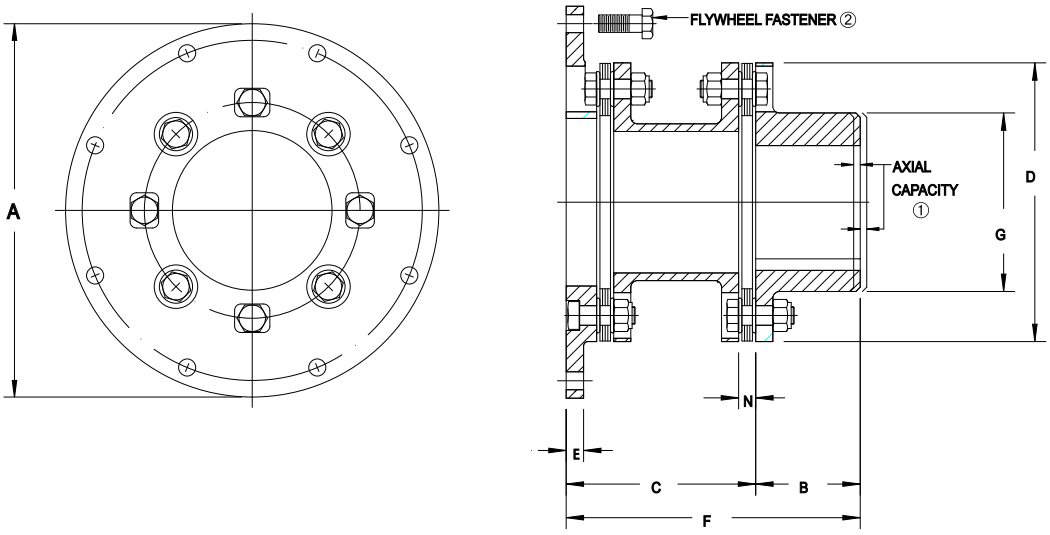
* Weight adder values are given in kg. WR^2 values are given in kg-m^2.

① Wt. and WR^2 is zero if the listed minimum adapter "A" diameter is the same as complete coupling calculated values in general dimension tables on page 18.

NOTE: Add Wt. and WR^2 values listed in table to the weight and inertia values provided on page 18 for given size to calculate actual values based on selected adapter size.

NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

Series 44 Flywheel Adapter Type Spacer Coupling



General Dimensions (mm)

Coupling Size	Max. Bore	Min. "A" Dia.	B	Std. C	Min. C	D	E	F (Ref.)	G	N
350	110	276	95	149	131	221	13	245	149	14
375	120	302	102	168	145	246	14	270	165	15
425	130	333	108	181	156	267	16	289	178	16
450	140	375	114	194	170	287	18	308	189	18
500	146	406	127	222	191	327	19	349	213	20
550	166	457	140	251	217	367	22	391	240	23
600	176	467	152	276	238	406	25	429	260	25
700	205	518	178	316	271	464	25	494	298	30
750	224	610	191	343	294	503	28	533	321	32
800	241	651	210	375	322	546	32	584	346	34
850	250	695	222	400	345	584	32	622	368	36
925	267	734	241	438	370	635	35	679	400	38
1000	290	803	267	471	430	699	41	738	438	43

Coupling Size	Max. Kilowatt Per 100 Service Factor 1.0	③ Max. Speed (rpm) As Manufactured	③ Max. Speed (rpm) Balanced	Max. Continuous Torque (Nm)	④ Peak Overload Torque (Nm)	⑤ Weight (kg)	Weight Change Per mm of "C" (kg)	⑤ WR^2 ($kg\text{-}m^2$)	WR^2 Change Per mm of "C" ($kg\text{-}m^2$)	① Axial Capacity (mm)
350	68.7	3,200	10,500	6,562	13,124	23	0.38	0.17	0.0553	±1.42
375	100.6	3,000	9,400	9,604	19,208	32	0.47	0.29	0.0829	±1.57
425	111.8	2,800	8,700	10,677	21,354	42	0.64	0.46	0.135	±1.70
450	161.0	2,700	8,100	15,380	30,760	54	0.67	0.72	0.156	±1.82
500	237.5	2,500	7,100	22,682	45,364	80	1.04	1.27	0.313	±2.02
550	368.4	2,300	6,300	35,187	70,374	118	1.31	2.37	0.495	±2.33
600	465.3	2,150	5,700	44,440	88,880	148	1.52	3.46	0.705	±2.59
700	591.4	1,950	500	56,478	112,956	222	2.21	6.56	1.19	±2.92
750	773.4	1,850	4,600	73,861	147,722	291	2.44	10.68	1.65	±3.17
800	1034.0	1,750	4,300	98,749	197,498	365	2.52	15.85	2.30	±3.45
850	1329.0	1,600	3,900	126,924	253,848	443	3.03	21.78	2.30	±3.65
925	1827.1	1,500	3,600	174,494	348,988	585	3.85	33.29	4.61	±3.96
1000	2097.7	1,500	3,250	200,345	400,690	751	3.88	50.87	5.83	±4.36

① Thomas® disc couplings meet NEMA MG1-14.37, 1-20.81, & 1-21.81 specifications without the addition of end-float restricting devices.
② Flywheel fasteners are not supplied with this coupling. Contact equipment manufacturer for this hardware and tightening instructions.
③ Maximum speeds are based on use with all standard available adapters. For larger sizes or higher speeds, please consult Regal Rexnord.
④ The peak overload torque rating is an infrequent torque overload limit and not an alternating or vibratory torque limit.
⑤ Weight and WR^2 values are based on maximum bores and minimum adapter diameters listed above.

NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

XTSRLS52 Spacer Type Coupling

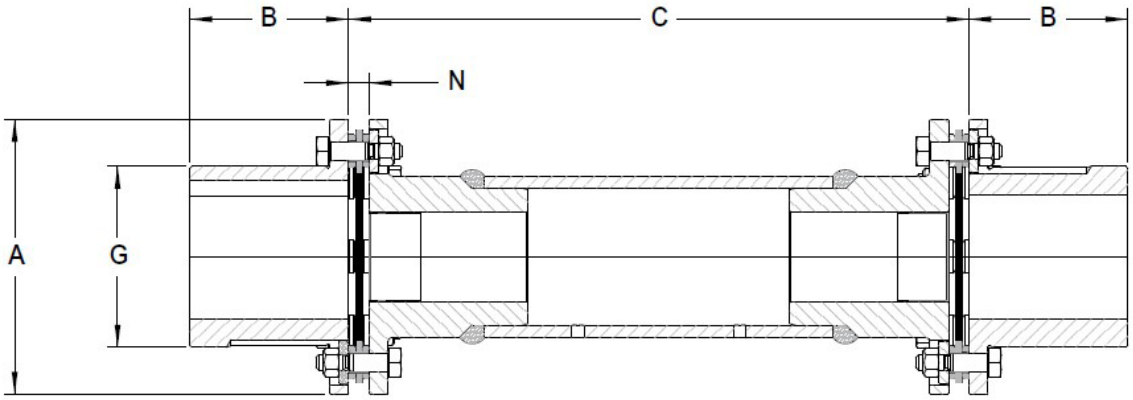
XTSRLS52 couplings are non-adapter style, full floating shaft couplings for applications with large distance between shaft ends. They feature welded steel spacer to achieve greater spacer lengths compared to the fully machined XTSR52 couplings. For additional features, such as expanded bore capacity and “drop-in” installation, consider XTSRLS71 couplings.

General

Disc Pack Style: Unitized XTSR
Angular Misalignment: 1/2° per disc pack for sizes 726-996, and 1/3° per disc pack for sizes 1088-4588.

Standard Materials

Disc Pack: Stainless steel
Major components: Carbon steel
Bolts: Alloy steel



NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

Example Selection:

1. Select coupling size 1088 for a 2,000 N-m torque requirement, 65 mm pump shaft diameter and 60 mm motor shaft diameter.
2. Operation speed is 1,800 rpm.
3. DBSE is 2,000 mm.
4. Therefore, coupling is a 1088 XTSRLS52 to accommodate long span need.

A 1088 XTSRLS52 has two hubs with 65 mm max bore. The max DBSE is 2,201 mm at 1,800 rpm.

General Coupling Data

Size	④ Max.Cont. Torque (N•m)	③ Std Hub Max. Bore	⑤ Min. C (mm)	① Axial Capacity (mm)	N (mm)	② WR2 ($kg•m^2$)	② Std Weight (kg)	Weight Change Per in of "C" (kg/mm)
726	297	45	373	±1.3	8.62	0.00267	2.99	0.0021
826	554	50	374	±1.5	9.34	0.00632	5.49	0.0047
996	927	60	781	±1.8	9.59	0.0161	10.0	0.0057
1088	2,190	65	783	±1.3	10.36	0.0334	19.4	0.0119
1298	3,550	80	788	±1.6	12.92	0.0743	28.4	0.0149
1548	5,910	95	792	±1.8	14.79	0.152	39.0	0.0179
1698	8,190	105	794	±2.0	15.79	0.236	48.5	0.0198
1928	11,100	120	796	±2.3	17.08	0.395	61.2	0.0228
2068	15,400	130	799	±2.5	18.42	0.617	88.9	0.0350
2278	19,900	140	800	±2.7	19.17	0.983	114	0.0394
2468	26,200	150	803	±3.0	20.49	1.37	134	0.0424
2698	35,900	165	1,114	±3.2	23.46	2.39	201	0.0615
2888	47,000	175	1,117	±3.5	25.18	3.39	244	0.0655
3058	52,000	185	1,117	±3.7	25.18	4.45	279	0.0714
3358	70,200	215	1,121	±4.0	27.34	7.32	404	0.0964
3668	94,300	225	1,128	±4.4	30.38	11.4	513	0.1069
3908	103,000	240	1,128	±4.7	30.38	15.4	631	0.1369
4178	128,000	255	1,132	±5.0	32.43	20.9	649	0.1459
4588	189,000	280	1,037	±5.5	35.95	33.7	989	0.1944

Size	Std A (mm)	Std B (mm)	Std G (mm)
726	95	30	64
826	108	50	72
996	129	50	84
1088	140	81	92
1298	166	97	111
1548	197	97	132
1698	218	110	147
1928	245	110	168
2068	264	125	179
2278	291	145	197
2468	313	150	214
2698	343	150	232
2888	371	175	246
3058	395	185	263
3358	427	245	288
3668	466	281	315
3908	490	303	339
4178	524	322	361
4588	587	350	392

① All Thomas® disc couplings meet NEMA frame sleeve bearing motor specifications without modification or the addition of end-float restricting devices.
② Weight and WR^2 of couplings with standard adapters at maximum bore and minimum "C" dimension listed.
③ Consult Regal Rexnord for minimum rough bore sizes.
④ Peak Overload Torque (N • m) is twice the Maximum Continuous Torque.
⑤ If shorter C lengths are required than the listed minimums, refer to XTSR52 page.

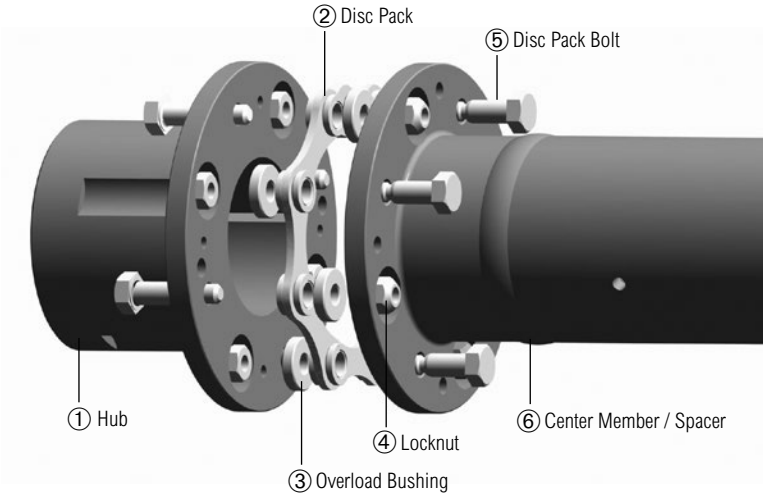
NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

Maximum C at Given rpm (mm)

Size	3,600 rpm	3,000 rpm	1,800 rpm	1,500 rpm	1,200 rpm	1,000 rpm	900 rpm	750 rpm	720 rpm	600 rpm	500 rpm
726	1,288	1,411	1,822	1,995	2,231	2,444	2,576	2,822	2,880	3,155	3,456
826	1,384	1,516	1,957	2,143	2,396	2,625	2,767	3,031	3,094	3,389	3,713
996	1,522	1,667	2,152	2,358	2,636	2,888	3,044	3,334	3,403	3,728	4,084
1088	1,557	1,705	2,201	2,412	2,696	2,954	3,113	3,410	3,481	3,813	4,177
1298	1,739	1,905	2,460	2,695	3,013	3,300	3,479	3,811	3,889	4,260	4,667
1548	1,905	2,086	2,694	2,951	3,299	3,614	3,809	4,173	4,259	4,665	5,111
1698	2,007	2,199	2,839	3,110	3,477	3,809	4,015	4,398	4,489	4,917	5,386
1928	2,152	2,358	3,044	3,334	3,728	4,084	4,305	4,716	4,813	5,272	5,775
2068	2,177	2,385	3,079	3,372	3,770	4,130	4,354	4,769	4,868	5,332	5,841
2278	2,311	2,532	3,268	3,580	4,003	4,385	4,622	5,063	5,168	5,661	6,201
2468	2,396	2,625	3,389	3,713	4,151	4,547	4,793	5,250	5,359	5,870	6,430
2698	2,500	2,739	3,536	3,873	4,331	4,744	5,000	5,478	5,591	6,124	6,709
2888	2,579	2,826	3,648	3,996	4,468	4,894	5,159	5,651	5,768	6,318	6,921
3058	2,694	2,951	3,809	4,173	4,665	5,111	5,387	5,901	6,023	6,598	7,228
3358	2,786	3,051	3,939	4,315	4,825	5,285	5,571	6,103	6,229	6,823	7,474
3668	2,926	3,205	4,138	4,533	5,068	5,551	5,852	6,410	6,542	7,167	7,851
3908	3,046	3,336	4,307	4,718	5,275	5,779	6,091	6,673	6,810	7,460	8,173
4178	3,143	3,443	4,445	4,869	5,444	5,964	6,286	6,886	7,028	7,699	8,434
4588	3,247	3,557	4,592	5,030	5,624	6,160	6,494	7,113	7,260	7,953	8,712

NOTE: Consult Regal Rexnord for intended applications at speeds not covered in the table.

Items #3 – 5 sold as Disc Pack Hardware Kit



NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

XTSRLS71 Spacer Type Coupling with Adapter

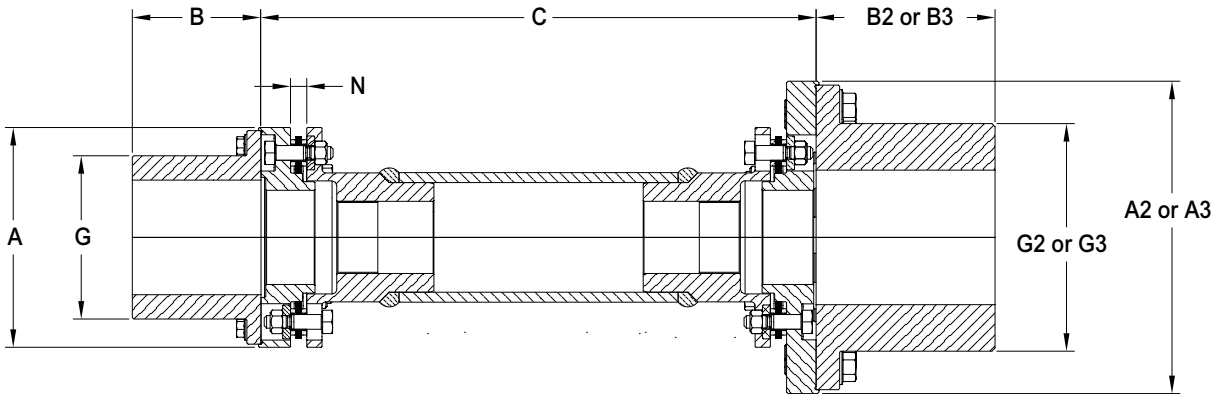
XTSRLS71 couplings are adapter style, full floating shaft couplings for applications with large distance between shaft ends. Features include optimized 3-piece design for simplified installation and maintenance, and pilot-fitted hubs for enhanced dynamic operation and balance. A welded steel spacer is utilized to achieve greater spacer lengths compared to the fully machined XTSR71 couplings.

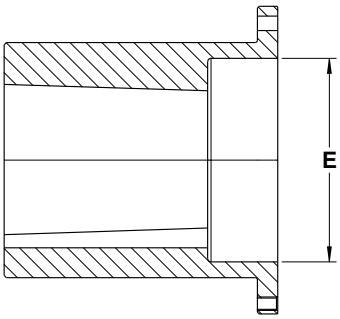
General

Disc Pack Style: Unitized XTSR
Angular Misalignment: 1/2° per disc pack for sizes 726-996, and 1/3° per disc pack for sizes 1088-4588.

Standard Materials

Disc Pack: Stainless steel
Major components: Carbon steel
Bolts: Alloy steel





NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

Example Selection:

1. Select coupling size 1088 for a 2,000 N-m torque requirement and 65 mm pump shaft diameter.
2. Select XXL 2nd hub for 100 mm motor shaft diameter.
3. Operation speed is 1,800 rpm.
4. DBSE is 2,000 mm.
5. Therefore, coupling is a 1088 XTSRLS71 XXL to accommodate long span need.

A 1088 XTSRLS71 XXL has one hub with 76 mm max bore and one hub with 105 mm max bore. The max DBSE is 2,239 mm at 1,800 rpm.

General Coupling Data

Size	④ Max.Cont. Torque (N•m)	③ Std Hub Max. Bore	③ XL Hub Max. Bore	③ XXL Hub Max. Bore	⑤ Min. C (mm)	① Axial Capacity (mm)	Max Counter Bore E (mm)
726	297	42	52	61	398	±1.3	52
826	554	52	61	76	404	±1.5	65
996	927	61	76	90	819	±1.8	76
1088	2,190	76	90	105	821	±1.3	88
1298	3,550	90	105	125	834	±1.6	104
1548	5,910	105	125	135	846	±1.8	123
1698	8,190	125	135	150	856	±2.0	142
1928	11,100	135	150	155	861	±2.3	156
2068	15,400	150	155	166	877	±2.5	170
2278	19,900	155	166	200	881	±2.7	188
2468	26,200	166	200	220	889	±3.0	199
2698	35,900	200	220	235	1,211	±3.2	246
2888	47,000	220	235	260	1,221	±3.5	271
3058	52,000	235	260	285	1,222	±3.7	298
3358	70,200	260	285	310	1,239	±4.0	314
3668	94,300	285	310	330	1,254	±4.4	354
3908	103,000	310	330	360	1,255	±4.7	377
4178	128,000	330	360	400	1,272	±5.0	397
4588	189,000	360	400	430	1,197	±5.5	450

Size	Std A (mm)	XL A2 (mm)	XXL A3 (mm)	Std B (mm)	XL B2 (mm)	XXL B3 (mm)	Std G (mm)	XL G2 (mm)	XXL G3 (mm)	② Std Weight (kg)	Weight Change Per in of "C" (kg/mm)	② WR2 (kg•m²)
726	95	108	129	35	42	51	59	73	86	4.24	0.0021	0.00427
826	108	129	140	42	51	82	73	86	104	7.03	0.0047	0.00931
996	129	140	166	51	82	95	86	104	123	13.6	0.0057	0.0251
1088	140	166	199	82	95	114	104	123	145	23.1	0.0119	0.0457
1298	166	199	220	95	114	122	123	145	165	34.7	0.0149	0.104
1548	199	220	245	114	122	135	145	165	182	51.7	0.0179	0.231
1698	220	245	264	122	135	155	165	182	200	66.7	0.0198	0.375
1928	245	264	291	135	155	167	182	200	220	85.7	0.0228	0.671
2068	264	291	313	155	167	190	200	220	236	122	0.0350	0.977
2278	291	313	345	167	190	185	220	236	280	155	0.0394	1.51
2468	313	345	381	190	185	200	236	280	308	188	0.0424	2.17
2698	345	381	405	185	200	191	280	308	332	272	0.0615	3.86
2888	381	405	437	200	191	225	308	332	355	347	0.0655	5.91
3058	405	437	482	191	225	257	332	355	398	388	0.0714	7.64
3358	437	482	503	225	257	249	355	398	419	517	0.0964	11.8
3668	482	503	529	257	249	266	398	419	444	694	0.1069	19.5
3908	503	529	608	249	266	300	419	444	504	780	0.1369	24.0
4178	529	608	648	266	300	320	444	504	545	912	0.1459	31.9
4588	608	648	678	300	320	346	504	545	575	1,310	0.1944	58.2

① All Thomas® disc couplings meet NEMA frame sleeve bearing motor specifications without modification or the addition of end-float restricting devices.
② Weight and WR² of couplings with standard adapters at maximum bore and minimum "C" dimension listed.
③ Consult Regal Rexnord for minimum rough bore sizes.
④ Peak Overload Torque (N • m) is twice the Maximum Continuous Torque.
⑤ If shorter C lengths are required than the listed minimums, refer to XTSR71 page.

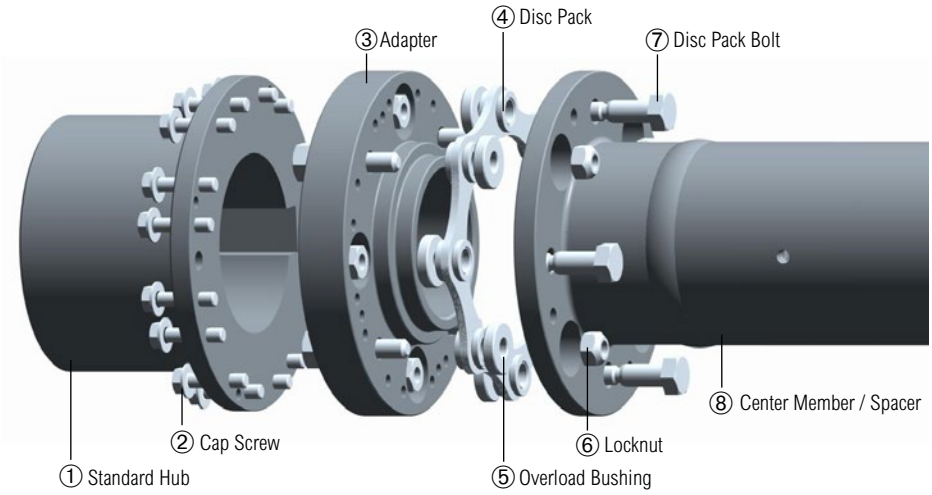
NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

Maximum C at Given rpm (mm)*

Size	3,600 rpm	3,000 rpm	1,800 rpm	1,500 rpm	1,200 rpm	1,000 rpm	900 rpm	750 rpm	720 rpm	600 rpm	500 rpm
726	1,313	1,436	1,847	2,020	2,256	2,469	2,601	2,847	2,905	3,180	3,481
826	1,414	1,546	1,987	2,174	2,427	2,655	2,797	3,062	3,124	3,419	3,743
996	1,560	1,705	2,191	2,396	2,674	2,926	3,082	3,373	3,441	3,766	4,122
1088	1,594	1,743	2,239	2,449	2,734	2,991	3,151	3,448	3,518	3,851	4,215
1298	1,785	1,951	2,506	2,740	3,058	3,346	3,524	3,856	3,935	4,306	4,713
1548	1,959	2,141	2,748	3,005	3,353	3,668	3,864	4,227	4,313	4,720	5,165
1698	2,070	2,261	2,901	3,172	3,539	3,871	4,077	4,460	4,551	4,979	5,449
1928	2,218	2,423	3,109	3,400	3,793	4,149	4,370	4,781	4,878	5,338	5,841
2068	2,255	2,463	3,157	3,451	3,849	4,209	4,432	4,848	4,946	5,411	5,919
2278	2,392	2,613	3,349	3,661	4,084	4,466	4,703	5,144	5,249	5,742	6,282
2468	2,482	2,711	3,475	3,799	4,237	4,633	4,879	5,336	5,445	5,956	6,516
2698	2,597	2,836	3,633	3,970	4,428	4,841	5,097	5,575	5,688	6,221	6,806
2888	2,683	2,930	3,752	4,100	4,572	4,998	5,263	5,755	5,872	6,422	7,025
3058	2,798	3,056	3,914	4,278	4,770	5,216	5,492	6,006	6,128	6,703	7,333
3358	2,904	3,170	4,058	4,434	4,943	5,403	5,689	6,221	6,347	6,941	7,593
3668	3,051	3,331	4,263	4,658	5,193	5,677	5,977	6,536	6,668	7,292	7,976
3908	3,173	3,463	4,434	4,845	5,402	5,906	6,218	6,800	6,937	7,587	8,299
4178	3,283	3,583	4,585	5,009	5,584	6,104	6,426	7,026	7,168	7,839	8,574
4588	3,407	3,717	4,752	5,190	5,784	6,320	6,654	7,273	7,420	8,113	8,872

* For API-671 required couplings, consult Regal Rexnord for maximum spans.

NOTE: Consult Regal Rexnord for intended applications at speeds not covered in the table.



NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

XTSRLS71-C Spacer Type Coupling with Adapter

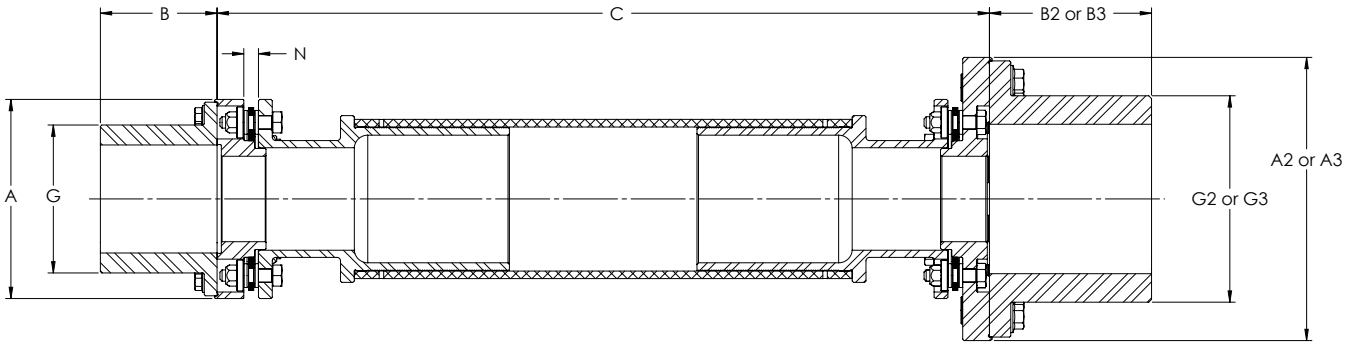
XTSRLS71-C couplings are adapter style, full floating shaft couplings featuring low-weight, composite spacer to deliver optimal performance and simplified installation. Compared to the standard welded steel XTSRLS couplings, the composite spacer version achieves greater maximum span lengths, while simultaneously reducing overall weight and radial loads on connected equipment. Other design features and options are identical to XTSR71 / XTSRLS71 models.

General

Disc Pack Style: Unitized XTSR
Angular Misalignment: 1/3° per disc pack

Standard Materials

Disc Pack: Stainless steel
Major components (excl. spacer tube): Carbon steel
Spacer tube: Carbon fiber composite
Bolts: Alloy steel
Coating (excl. spacer tube): Manganese phosphate



NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

XTSRLS71-C Spacer Type Coupling with Adapter

Example Selection:

1. Select coupling size 1088 for a 2,000 N-m torque requirement and 65 mm pump shaft diameter.
2. Select XXL 2nd hub for 100 mm motor shaft diameter.
3. Operation speed is 1,800 rpm.
4. DBSE is 2,000 mm.
5. Therefore, coupling is a 1088 XTSRLS71-C XXL to accommodate long span need.

A 1088 XTSRLS71-C XXL has one hub with 76 mm max bore and one hub with 105 mm max bore.
The max DBSE is 2,239 mm at 1,800 rpm.The max DBSE is 88 in at 1,800 rpm.

General Coupling Data

Size	④ Max. Cont. Torque (N•m)	③ Std Hub Max. Bore (mm)	③ XL Hub Max. Bore (mm)	③ XXL Hub Max. Bore (mm)	⑤ Min. C (mm)	① Axial Capacity (mm)	Max. Counter Bore E (mm)
1088	2,190	76	90	105	821	±1.3	88
1298	3,550	90	105	125	834	±1.6	104
1548	5,910	105	125	135	846	±1.8	123
1698	8,190	125	135	150	856	±2.0	142
1928	11,100	135	150	155	861	±2.3	156
2068	15,400	150	155	166	877	±2.5	170
2278	19,900	155	166	200	881	±2.7	188
2468	26,200	166	200	220	889	±3.0	199
2698	35,900	200	220	235	1211	±3.2	246
2888	47,000	220	235	260	1221	±3.5	271

Size	Std A (mm)	XL A2 (mm)	XXL A3 (mm)	Std B (mm)	XL B2 (mm)	XXL B3 (mm)	Std G (mm)	XL G2 (mm)	XXL G3 (mm)	② Std Weight (kg)	Weight Change Per mm of "C" (kg/mm)	② WR2 (kg•m2)
1088	140	166	199	82	95	114	104	123	145	18.9	0.003	0.048
1298	166	199	220	95	114	122	123	145	165	31.0	0.005	0.113
1548	199	220	245	114	122	135	145	165	182	49	0.006	0.248
1698	220	245	264	122	135	155	165	182	200	70	0.009	0.449
1928	245	264	291	135	155	167	182	200	220	91	0.010	0.749
2068	264	291	313	155	167	190	200	220	236	121	0.010	1.120
2278	291	313	345	167	190	185	220	236	280	156	0.012	1.800
2468	313	345	381	190	185	200	236	280	308	196	0.013	2.580
2698	345	381	405	185	200	191	280	308	332	272	0.015	4.650
2888	381	405	437	200	191	225	308	332	355	367	0.017	7.750

① All Thomas® disc couplings meet NEMA frame sleeve bearing motor specifications without modification or the addition of end-float restricting devices.
② Weight and WR2 of couplings with standard adapters at maximum bore and minimum "C" dimension listed.
③ Consult Regal Rexnord for minimum rough bore sizes.
④ Peak Overload Torque (N • m) is twice the Maximum Continuous Torque.
⑤ If shorter C lengths are required than the listed minimums, refer to standard XTSR71 model.

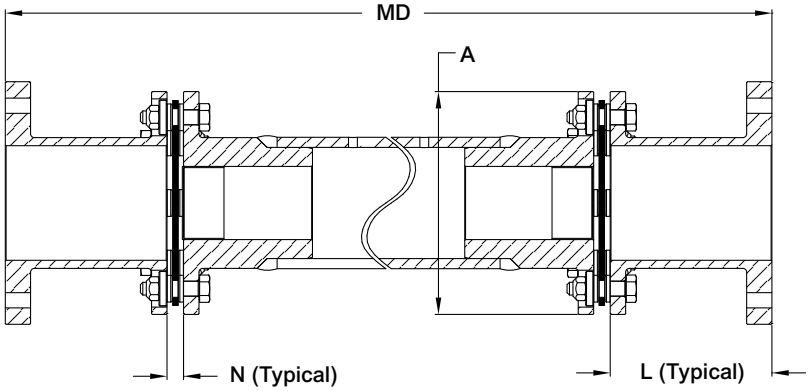
Maximum C at Given rpm (mm)

Size	3,600 rpm	3,000 rpm	1,800 rpm	1,500 rpm	1,200 rpm	1,000 rpm	900 rpm	750 rpm	720 rpm	600 rpm	500 rpm
1088	1,753	1,905	2,464	2,692	2,997	3,302	3,480	3,785	3,886	4,242	4,648
1298	1,829	1,981	2,540	2,794	3,124	3,404	3,581	3,937	4,013	4,394	4,801
1548	1,956	2,134	2,743	2,997	3,353	3,658	3,861	4,216	4,318	4,724	5,156
1698	2,438	2,642	3,404	3,734	4,166	4,547	4,801	5,232	5,359	5,842	6,401
1928	2,591	2,845	3,658	3,988	4,470	4,877	5,131	5,613	5,740	6,274	6,883
2068	2,667	2,896	3,734	4,064	4,547	4,978	5,232	5,715	5,842	6,401	6,985
2278	2,845	3,124	4,013	4,369	4,877	5,334	5,639	6,172	6,172	6,172	6,172
2468	2,946	3,200	4,115	4,496	5,029	5,486	5,791	6,325	6,452	7,061	7,137
2698	3,150	3,454	4,420	4,851	5,410	5,918	6,223	6,680	6,680	6,680	6,680
2888	3,378	3,683	4,724	5,156	5,766	6,299	6,629	7,239	7,239	7,239	7,239

NOTE: Consult Regal Rexnord for applications at speeds not covered in the table. Longer spans may be supplied based on application requirements.

NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

Full floating shaft coupling designed to directly replace lubricated gear couplings found in many pulp and paper applications with large distances between connected equipment. The included adapters bolt up to existing AGMA Standard rigid gear coupling hubs, replacing the complete floating shaft assembly. Axial shims are supplied to allow minor axial positioning adjustment.



General

Disc Pack Style: Unitized XTSR
Angular Misalignment: 1/2° per disc pack for size 996 and 1/3° per disc pack for sizes 1088-4178.

Standard Materials

Disc Pack: Stainless steel
Major components: Carbon steel
Bolts: Alloy steel

General Coupling Data

For maximum centermember lengths per application speeds and coupling size, consult Regal Rexnord.

Gear Coupling (Falk) / Thomas® Coupling	#1½ (1015)	#2 (1020)	#2½ (1025)	#3 (1030)	#3½ (1035)	#4 (1040)	#4½ (1045)	#5 (1050)	#5½ (1055)	#6 (1060)	#7 (1070)
996											
1088											
1298											
1548											
1698											
1928											
2068											
2278											
2468											
2698											
2888											
3058											
3358											
3668											
3908											
4178											

Available In These Sizes

Size	Max. Kilowatt per 100 rpm Service Factor 1.0	Max. Continuous Torque (Nm)	② Peak Overload Torque (N•m)	A (mm)	L (mm)	Min. Mounting Dimension "MD" (mm)	N (mm)	① Axial Capacity (mm)
996	10	927	1,854	129	102	984	9.59	±1.8
1088	23	2,190	4,380	140	102	986	10.36	±1.3
1298	37	3,550	7,100	166	130	1,048	12.92	±1.6
1548	62	5,910	11,820	197	140	1,071	14.79	±1.8
1698	86	8,190	16,380	218	168	1,130	15.79	±2.0
1928	116	11,100	22,200	245	165	1,126	17.08	±2.3
2068	161	15,400	30,800	264	171	1,142	18.42	±2.5
2278	208	19,900	39,800	291	184	1,169	19.17	±2.7
2468	274	26,200	52,400	313	197	1,197	20.49	±3.0
2698	377	35,900	71,800	343	232	1,577	23.46	±3.2
2888	492	47,000	94,000	371	232	1,581	25.18	±3.5
3058	545	52,000	104,000	395	232	1,581	25.18	±3.7
3358	736	70,200	140,400	427	232	1,591	27.34	±4.0
3668	987	94,300	188,600	466	232	1,623	30.38	±4.4
3908	1,075	103,000	206,000	490	232	1,648	30.38	±4.7
4178	1,337	128,000	256,000	524	232	1,652	32.43	±5.0

① All Thomas disc couplings meet NEMA frame sleeve bearing motor specifications without modification or the addition of end-float restricting devices.
② The peak overload torque is not an alternating torque limit.

NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

XTSRS Single Flex Type Coupling

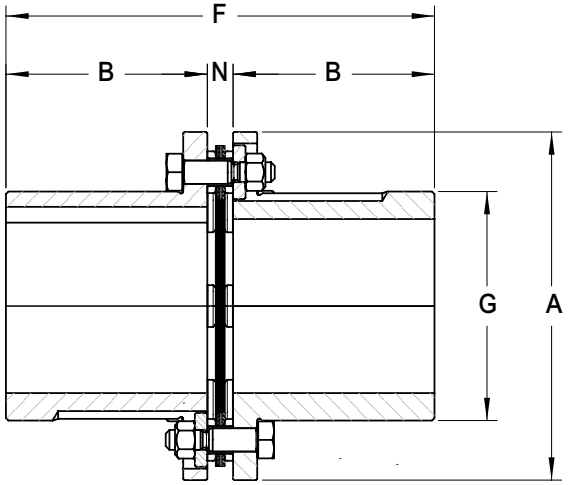
Single flex style coupling used to accommodate angular misalignment only. Typically used in three-bearing applications where radial load is supported by the coupling, such as single bearing generators. Two XTSRS couplings may be combined with an intermediate shaft to create a full floating shaft coupling.

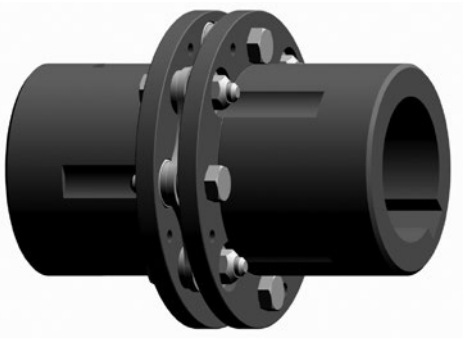
General

Disc Pack Style: Unitized XTSR
Angular Misalignment: 2/3° per disc pack for sizes 494 & 644, 1/2° per disc pack for sizes 726-996, and 1/3° per disc pack for sizes 1088-5258.

Standard Material

Disc Pack: Stainless steel
Hubs: Carbon steel
Bolts: Alloy steel
Coating: Manganese Phosphate





General Coupling Data

Size	④ Max.Cont. Torque (N•m)	③ Std Hub Max. Bore	Max. Speed (rpm)	① Axial Capacity (mm)	N (mm)	BE (mm)	Std F (mm)	② Std Weight (kg)
494	85	27	13,800	±0.6	8.62	20.82	49	0.481
644	145	38	12,500	±0.9	8.62	21.92	59	0.789
726	297	45	12,000	±0.7	8.62	21.12	69	1.23
826	554	50	10,900	±0.8	9.34	24.44	109	2.39
996	927	60	9,800	±0.9	9.59	28.69	110	3.74
1088	2,190	65	9,000	±0.7	10.36	29.16	172	6.53
1298	3,550	80	8,000	±0.8	12.92	35.82	207	11.2
1548	5,910	95	7,100	±0.9	14.79	41.89	209	17.2
1698	8,190	105	6,600	±1.0	15.79	46.89	236	22.7
1928	11,100	120	6,100	±1.2	17.08	49.78	237	30.6
2068	15,400	130	5,800	±1.3	18.42	57.62	268	40.8
2278	19,900	140	5,500	±1.4	19.17	59.67	309	54.0
2468	26,200	150	5,200	±1.5	20.49	63.49	320	68.0
2698	35,900	165	4,800	±1.6	23.46	71.96	323	88.9
2888	47,000	175	4,600	±1.8	25.18	77.18	375	111
3058	52,000	185	4,400	±1.9	25.18	77.58	395	131
3358	70,200	215	4,200	±2.0	27.34	86.44	517	188
3668	94,300	225	3,900	±2.2	30.38	93.18	592	251
3908	103,000	240	3,800	±2.4	30.38	93.78	636	298
4178	128,000	255	3,600	±2.5	32.43	102.43	676	274
4588	189,000	280	3,400	±2.8	35.95	115.95	736	490
4918	235,000	300	3,200	±3.0	38.12	121.92	788	608
5258	283,000	320	3,100	±3.2	40.29	130.89	842	739

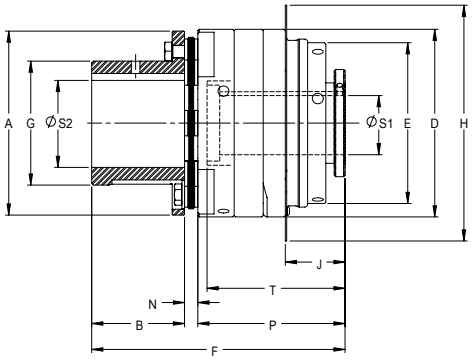
Size	Std A (mm)	Std B (mm)	Std G (mm)	② WR2 (kg•m²)
494	70	20	41	0.000260
644	85	25	56	0.000647
726	95	30	64	0.00124
826	108	50	72	0.00301
996	129	50	84	0.00656
1088	140	81	92	0.0133
1298	166	97	111	0.0325
1548	197	97	132	0.0714
1698	218	110	147	0.116
1928	245	110	168	0.203
2068	264	125	179	0.310
2278	291	145	197	0.503
2468	313	150	214	0.74
2698	343	150	232	1.15
2888	371	175	246	1.72
3058	395	185	263	2.24
3358	427	245	288	3.78
3668	466	281	315	6.09
3908	490	303	339	8.0
4178	524	322	361	11.2
4588	587	350	392	18.6
4918	630	375	420	26.5
5258	672	401	450	36.9

① All Thomas® disc couplings meet NEMA frame sleeve bearing motor specifications without modification or the addition of end-float restricting devices.
② Weight and WR² of couplings with standard adapters at maximum bore and minimum "C" dimension listed.
③ Consult Regal Rexnord for minimum rough bore sizes.
④ Peak Overload Torque (N·m) is twice the Maximum Continuous Torque.

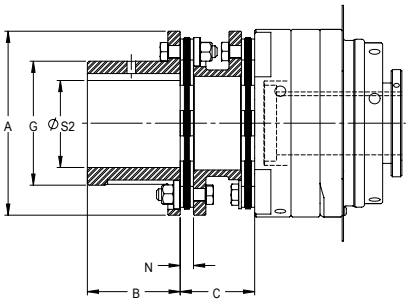
NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

The Autogard 400 Series can be integrated with Thomas® XTSR52 or XTSRS couplings to provide torque overload protection with misalignment capabilities of a flexible coupling.

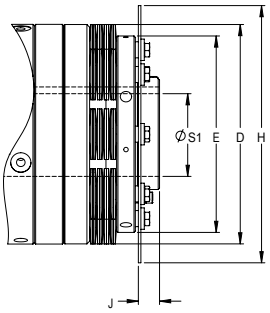
The 405.XTSR52 model accommodates variable spacer lengths (Dimension "C"), and both angular and parallel misalignment types. The 405.XTSRS model utilizes single flexing style coupling and accommodates angular misalignment only.



405 XTSRS



405 XTSR52



Sizes 6-8

General Coupling Data

405 Size	XTSR Size equivalent	Cont. Torque ⑥		Hub Max. Bore S1 (mm)	Hub Max. Bore S2 (mm)	Min. C ⑤ (mm)	Max. Speed ⑦ (rpm)	Max Axial Misalignment Capacity Per Disc Pack (mm)	Max Angular Misalignment Capacity ① ④ (degrees)	N (mm)	XTSRS WR2 ②	
		Min (N•m)	Max ④ (N•m)								S1 side (kg•m²)	S2 side (kg•m²)
405-2	826	4	226	28	50	46.7	3600	0.75	0.50	9.34	0.004	0.005
405-3	1088	27	678	40	65	57.5	3600	0.65	0.33	10.36	0.013	0.019
405-4	1088	45	1130	50	65	57.5	2000	0.65	0.33	10.36	0.022	0.029
405-5	1698	100	2542	75	105	88.3	2000	1.00	0.33	15.79	0.109	0.146
405-6	2068	1100	5650	100	130	108.1	1800	1.25	0.33	18.42	0.264	0.406
405-7	2468	1500	11300	127	150	122.5	1500	1.50	0.33	20.49	0.694	0.906
405-8	3058	3500	24860	152	185	151.4	1000	1.85	0.33	25.18	1.953	2.588

405 Size	XTSR Size equivalent	Max Bore S1 ③ (mm)	Max Bore S2 ③ (mm)	Std A (mm)	Std B (mm)	Std G (mm)	Std F (mm)	Std D (mm)	Std E (mm)	Std H (mm)	Std J ⑧ (mm)	Std P (mm)	Std T (mm)	XTSRS Std Weight ② (kg)
405-2	826	28	50	108.0	50.0	71.8	167.8	110.7	86.9	139.7	45.0	108.5	108.0	6.10
405-3	1088	40	65	140.0	81.0	92.1	212.5	145.7	120.0	184.2	45.7	121.2	114.5	12.60
405-4	1088	50	65	140.0	81.0	92.1	219.0	166.3	136.5	203.2	47.0	127.6	121.2	15.70
405-5	1698	75	105	218.0	110.0	146.9	300.2	222.3	190.5	279.4	70.8	174.4	163.5	41.50
405-6	2068	100	130	264.0	125.0	178.6	371.2	262.9	232.8	304.8	25.1	227.8	217.5	72.80
405-7	2468	127	150	313.0	150.0	213.5	415.5	317.0	282.6	387.4	28.4	245.0	245.0	120.00
405-8	3058	152	185	395.0	185.0	263.0	524.3	384.5	362.0	482.6	36.0	314.1	300.0	228.90

① All Thomas disc couplings meet NEMA frame sleeve bearing motor specifications without modification or the addition of end-float restricting devices.
② Weights and moments of inertia apply to max S1 and S2 bores with type XTSRS couplings only.
③ Consult Regal Rexnord for minimum rough bore sizes.
④ Peak Overload Torque (N • m) is twice the Max. Continuous Torque.
⑤ For longer spacers, consult Regal Rexnord. Parallel offset is not permissible for type XTSRS couplings.
⑥ For higher torque applications, consult Regal Rexnord.
⑦ Higher speeds may be allowed under certain conditions. Please consult Regal Rexnord.
⑧ For size 6 and above, clearance is required for adjusting bolt, consult Regal Rexnord.

NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

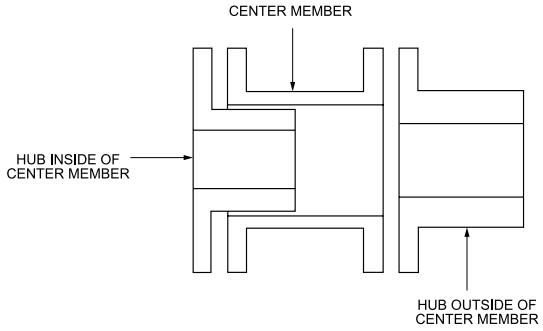
General

Maximum temperature: 250°F
Available with electrically insulated phenolic material

Standard Materials

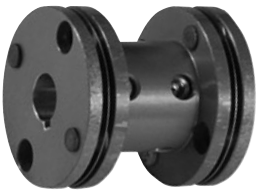
Hubs and Center Member: Aluminum alloy, anodized
Rivets: Brass
Washers: Brass
Discs: Stainless steel
Set screws: 18-8 Stainless steel, passivated

Guide to Proper Designation of Hubs



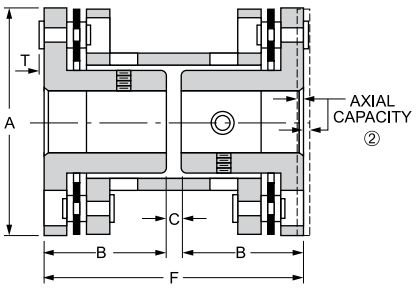
Style CC

This coupling has both hubs inverted and is designed to fit shafts normally encountered at a given torque range. Ideal for use where space limitations require close coupling of the shafts.



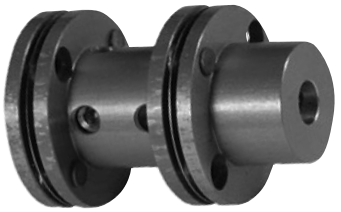
General Dimensions (mm)

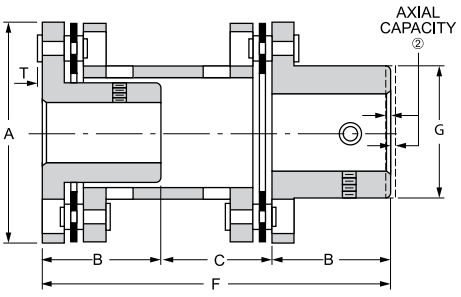
Coupling Size	A	B	C	F	T	① Torque Capacity (Nm)
12	12.7	6.4	0.8	13.5	0.46	0.12
18	19.1	9.5	1.6	20.6	0.58	0.25
25	25.4	12.7	1.6	27.0	0.64	0.53
37	36.5	17.5	3.2	38.1	0.89	2.15
50	44.5	23.8	3.2	50.8	1.14	8.47
62	57.2	27.0	3.2	57.2	1.52	33.90
75	63.5	30.2	3.2	63.5	1.52	49.71
100	76.2	34.9	6.4	76.2	1.52	79.09



① Torque capacities are based on smooth drives with moderate torque fluctuations. Reduce ratings to 1/3 the value shown for severe applications such as indexing drives where torque reversals occur.

② All Thomas® disc couplings meet NEMA frame sleeve bearing motor specifications without modification or the addition of end-float restricting devices.





Style CA

This design of our miniature coupling has one inverted hub to accept a normal shaft and one extended hub to accommodate oversize shafts. It also accommodates a larger shaft gap than the Style CC.

General Dimensions (mm)

Coupling Size	A	B	C	F	G	T	① Torque Capacity (Nm)
12	12.7	6.4	6.0	18.7	7.9	0.46	0.12
18	19.1	9.5	9.5	28.6	11.9	0.58	0.25
25	25.4	12.7	11.9	37.3	15.9	0.64	0.53
37	36.5	17.5	17.5	52.4	22.2	0.89	2.15
50	44.5	23.8	23.0	70.6	27.0	1.14	8.47
62	57.2	27.0	25.4	79.4	34.9	1.52	33.90
75	63.5	30.2	28.6	88.9	41.3	1.52	49.71
100	76.2	34.9	34.9	104.8	47.6	1.52	79.09

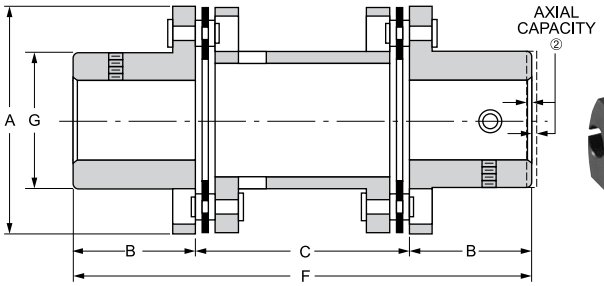
① Torque capacities are based on smooth drives with moderate torque fluctuations. Reduce ratings to 1/3 the value shown for severe applications such as indexing drives where torque reversals occur.

② All Thomas disc couplings meet NEMA frame sleeve bearing motor specifications without modification or the addition of end-float restricting devices.

Styles CB & CBC

This coupling design has both hubs extended to accept two oversized shafts. Shaft gap is larger than that of the Style CA or CC couplings.

Style CBC is the newest addition to our miniature coupling line. It offers clamping hubs that are an integral part of the coupling. The clamping hubs assure positive fit on the shafts. There are no loose parts to handle during installation. The Style CBC coupling has the same dimensions and torque capacities as the Style CB. Consult Regal Rexnord for additional design and engineering data.



General Dimensions (mm)

Coupling Size	A	B	C	F	G	Torque Capacity (Nm)
12	12.7	6.4	11.1	23.8	7.9	0.13
18	19.1	9.5	17.5	36.5	11.9	0.25
25	25.4	12.7	22.2	47.6	15.9	0.53
37	36.5	17.5	31.8	66.7	22.2	2.15
50	44.5	23.8	42.9	90.5	27.0	8.49
62	57.2	27.0	47.6	101.6	34.9	33.98
75	63.5	30.2	54.0	127.0	41.3	49.83
100	76.2	34.9	63.5	127.0	47.6	79.28

Styles CC, CA, CB & CBC

Ratings and Mass Elastic Data

Coupling Size	Max. RPM	① Approx Weight (kg)	① Approx WR^2 ($kg\text{-}m^2$)	Torsional Rigidity $K_t \times 10^3$ (kg-mm/Rad)	Max. Angular Misalignment Continuous Per Flexing Element	Max. Parallel Misalignment Continuous (mm)	Axial Capacity (Nm)
12	150,000	.003	0.048	4.779	2°	0.381	±0.40
18	100,000	.008	0.324	7.792	2°	0.381	±0.40
25	80,000	.021	1.46	19.128	2°	0.711	±0.78
37	55,000	.057	8.67	127.769	1.5°	0.711	±0.78
50	45,000	.114	25.94	195.527	1°	0.711	±0.78
62	35,000	.265	91.3	509.219	0.67°	0.711	±0.78
75	30,000	.328	157.5	795.300	0.67°	0.711	±0.78
100	25,000	.567	420.7	1072.446	0.50°	0.508	±0.78

① Weight and WR^2 at maximum bore.

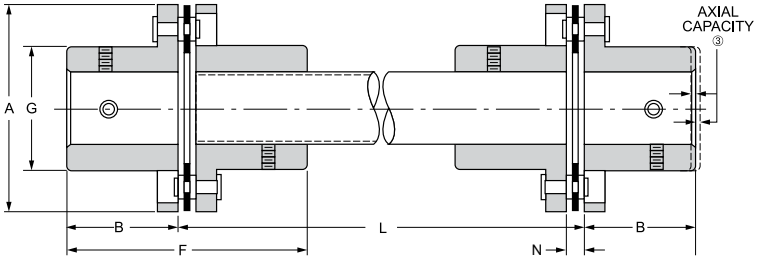
② All Thomas® disc couplings meet NEMA frame sleeve bearing motor specifications without modifcation or the addition of end-float restricting devices.

NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

Style CE

The Style CE coupling consists of two Style CS single flexing couplings that are connected by a tubular shaft. It is designed to span large distances between shafts and is ideal for those applications where a large amount of parallel misalignment is anticipated.

The Style CS is designed for applications where one shaft is fully supported in its own bearings and the other shaft is single-bearing supported. The single flexing design can only accept angular misalignment.



General Data ④

Coupling Size	A (mm)	B (mm)	N (mm)	F (mm)	G (mm)	L (mm)	Max. RPM		① Torque Capacity (Nm)	Weight (kg)		Weight Change Per mm of "L" (g)
							Style CE	Style CS		② CE	CS	
12	12.7	6.4	0.8	13.5	8.0	Varies to suit as required	Consult Regal Rexnord	150,000	0.12	0.013	0.002	0.0315
18	19.1	9.5	1.6	20.7	11.9			100,000	0.25	0.027	0.006	0.0551
25	25.4	12.7	2.4	27.8	15.9			80,000	0.53	0.048	0.014	0.0669
37	36.5	17.5	2.8	37.7	22.2			55,000	2.15	0.116	0.040	0.1220
50	44.5	23.8	3.6	51.2	27.0			45,000	8.49	0.221	0.080	0.2008
62	57.2	27.0	4.4	58.3	34.9			35,000	33.98	0.405	0.166	0.2441
75	63.5	30.2	4.8	65.1	41.3			30,000	49.83	0.513	0.171	0.4252
100	76.2	34.9	5.7	75.6	47.6			25,000	79.28	0.811	0.363	0.4685

① Torque capacities are based on smooth drives with moderate torque fluctuations. Reduce ratings to 1/3 the value shown for severe applications such as indexing drives where torque reversals occur.

② Weight calculated at maximum bore and "L" = 12" (304.8 mm)

③ All Thomas® disc couplings meet NEMA frame sleeve bearing motor specifications without modification or the addition of end-float restricting devices.

④ For WR^2, misalignment capacities and torsional rigidity consult Regal Rexnord.

Standard Bore Sizes for Style CC, CA, CB, CBC, CE & CS Miniature Couplings ①

Coupling Size	Bores ②③ (in)	
	Hub Inside Center Member	Hub Outside Center Member
12	0.0781, 0.0937 0.1200, 0.1250	0.1200, 0.1250 0.1562, 0.1875
18	0.0937, 0.1200 0.1250, 0.1562 0.1875	0.1250, 0.1562 0.1875, 0.2500
25	0.1255, 0.1880 0.2505	0.1255, 0.1880 0.2505, 0.3130 0.3755
37	0.1255, 0.1880 0.2505, 0.3130 0.3755	0.1880, 0.2505 0.3130, 0.3755 0.4380, 0.5005

Coupling Size	Bores ②③ (in)	
	Hub Inside Center Member	Hub Outside Center Member
50	0.2505, 0.3130 0.3755, 0.4380 0.5005	0.2505, 0.3130 0.3755, 0.4380 0.5005, 0.6255
62	0.3755, 0.4380 0.5005, 0.6255	0.4380, 0.5005 0.6255, 0.7505
75	0.4380, 0.5005 0.6255, 0.7505	0.5005, 0.6255 0.7505, 0.8755 1.0005
100	0.6255, 0.7505 0.8755, 1.0005	0.7505, 0.8755 1.0005, 1.1255 1.2505

① Couplings not available with rough bore. Keyway not included in standard bore. Keyways and nonstandard bores also available.

② Tolerances: Sizes 12 and 18, ±0.0003". Larger sizes, ±0.0005".

③ The largest bore shown for each hub is maximum allowable bore. Consult Regal Rexnord if a larger bore is required.

NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

Rexnord® Thomas® Supported Products

DBZ, DBZ-A, DBZ-B Close-Coupled Couplings

DBZ disc couplings are used in general purpose applications where overall shaft-to-shaft spacing is minimal. One or both hubs can be flipped to accommodate variety of different shaft spacings.

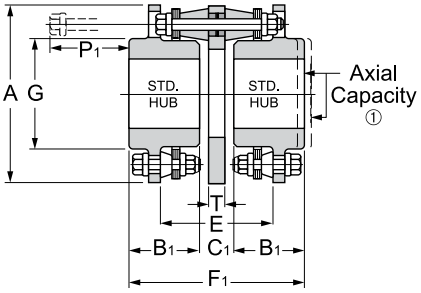
DBZ: Both hubs with inverted orientation
DBZ-A: One hub extended to permit taper boring
DBZ-B: Both hubs extended to allow for greatest spacing where required

General

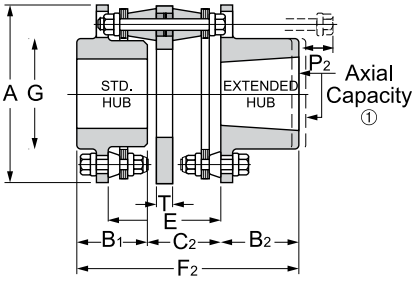
Disc Pack Style: Classic Round
Angular Misalignment: 1/3° per disc pack
Standard Balance: AGMA Class 7

Standard Materials

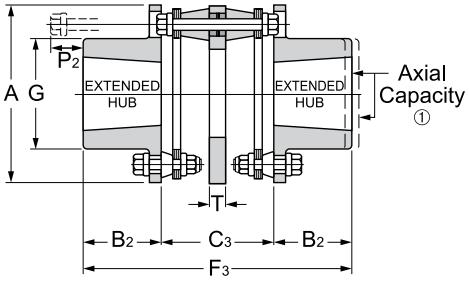
Disc Pack: Stainless steel (Tomaloy, Monel and Inconel available as options)
Major Components: Carbon steel
Bolts: Alloy steel



DBZ



DBZ-A
(one standard and one extended hub)*



DBZ-B
(two extended hubs)*

General Dimensions (mm)

Coupling Size	Standard Hub Max. Bore	Extended Hub Max. Bore	A	B_1	B_2	C_1	C_2	C_3	E	F_1	F_2	F_3	G	P_1	P_2	T
50	15	15	51	22	22	8.1	21.3	34.5	34.5	52.8	66.0	79.2	25	32	20	4.8
62	17	17	62	28	28	9.7	26.7	43.7	43.7	65.0	82.0	99.1	30	40	27	6.4
75	20	20	68	28	28	9.4	26.9	44.5	44.5	66.3	83.8	101.3	37	40	27	6.4
101	27	28	82	35	35	17.5	35.3	52.8	52.8	87.6	105.4	122.9	43	43	25	7.9
126	35	35	98	38	41	24.4	43.2	62.2	62.2	100.6	122.4	144.5	52	51	29	10.4
163	50	50	116	43	48	24.1	43.2	62.2	62.2	110.0	133.9	157.7	70	46	22	10.4
201	55	58	136	49	54	24.4	49.8	75.2	75.2	122.9	152.9	182.9	83	59	29	14.2
226	64	70	154	60	67	31.0	64.3	97.5	97.5	151.9	191.3	230.6	96	68	29	16.8
263	78	81	178	70	76	33.3	71.4	109.5	109.5	173.0	217.4	261.9	113	76	32	19.1
301	84	95	203	79	87	38.1	81.0	124.0	124.0	196.6	247.7	298.7	129	90	40	21.3
351	97	110	238	94	103	45.7	98.0	150.4	150.4	233.2	294.9	356.6	148	114	52	26.9
401	110	120	272	106	117	49.3	109.7	170.2	170.2	262.1	333.5	404.9	168	130	59	30.2
451	130	130	308	121	133	53.8	119.9	184.9	184.9	296.2	373.9	451.6	187	138	60	34.0

Coupling Size	Max. Kilowatts Per 100 RPM	Max. Speed (rpm)		Max. Continuous Torque (Nm)	Peak Overload Torque (Nm)	② Weight (kg)			② WR^2 ($kg\text{-}m^2$)			① Axial Capacity (mm)
	Service Factor 1.0	As Manufactured	Balanced			DBZ	DBZ-A	DBZ-B	DBZ	DBZ-A	DBZ-B	
50	0.2	6,000	9,000	16	25	0.3	0.3	0.3	0.0001	0.0001	0.0001	±0.58
62	0.3	6,000	8,200	28	42	0.7	0.7	0.7	0.0002	0.0002	0.0002	±0.71
75	0.4	6,000	7,800	40	60	0.9	0.9	0.9	0.0004	0.0004	0.0004	±0.81
101	0.8	6,000	7,100	78	118	1.5	1.5	1.5	0.0013	0.0013	0.0013	±0.96
126	1.5	5,500	6,500	142	215	2.5	2.5	2.6	0.0029	0.0030	0.0030	±1.16
163	2.0	5,000	6,000	192	294	3.8	3.9	4.0	0.006	0.006	0.006	±1.44
201	3.6	4,600	5,500	341	508	6.5	6.5	7.0	0.016	0.016	0.016	±1.70
226	6.5	4,100	5,200	621	938	9.5	10.0	10.4	0.028	0.028	0.031	±1.93
263	10.2	3,700	4,800	972	1458	15.0	15.4	15.9	0.058	0.061	0.061	±2.26
301	15.3	3,300	4,500	1458	2192	22.7	23.6	24.5	0.107	0.110	0.113	±2.59
351	26.7	2,900	4,100	2553	3830	37.7	39.5	40.9	0.268	0.274	0.282	±2.99
401	39.3	2,700	3,900	3751	5627	56.8	56.8	61.3	0.499	0.500	0.500	±3.45
451	51.4	2,600	3,600	4904	7355	77.2	81.7	81.7	0.927	0.928	0.957	±3.91

① All Thomas® disc couplings meet NEMA frame sleeve bearing motor specifications without modifications or the addition of end-float restricting devices.
② Weight and WR^2 at maximum bore.
* Extended hubs can be supplied with straight bores or taper bores.

NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

SEE PAGES 11-13 FOR UPDATED VERSION WITH ENHANCED FEATURES

Series 52 couplings are all-purpose high-speed, high-torque spacer couplings used where minimum coupling weight is desirable. They are commonly used on motor and turbine driven pumps, compressors and fans.

When specified, Series 52 couplings meet requirements of API 610 and ISO 14691.

General

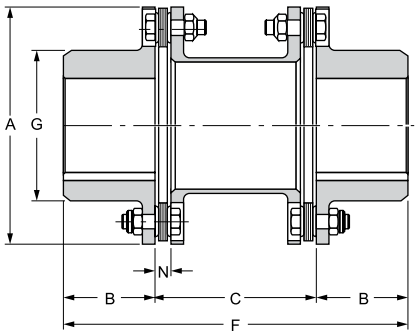
Disc Pack Style: Classic Round (Tpack available as option)
Angular Misalignment 1/3° per disc pack
Standard Balance: AGMA Class 9

Standard Materials

Disc Pack: Tomaloy (Stainless steel, Monel and Inconel available as options)
Major Components: Carbon steel
Bolts: Alloy steel
Coating Options: Black Oxide, Zinc, Cadmium

General Dimensions (mm)

Coupling Size	⑥ Max. Bore	A	B	② Std. C	② Stocked C	Min. C	F	G	N
125	34	94	33	102	100	Consult	168	52	7
162	50	110	44	127	100, 140	52	216	70	7
200	58	138	52	127	100, 140	67	232	83	9
225	70	145	67	127	100, 140, 180	70	260	96	9
262	84	168	73	127	140, 180	82	273	114	12
312	97	198	86	140	140, 180	95	311	133	13
350	110	221	95	152	180, 250	106	343	149	14
375	120	246	102	178	180, 250	117	381	165	15
425	130	267	108	178	180, 250	125	394	178	16
450	140	287	114	203	180, 250	136	432	189	18
500	146	327	127	229	250	153	483	213	20
550	166	367	140	254	250	175	533	240	23
600	176	406	152	254	250	191	559	260	25
700	205	464	178	279	–	217	635	298	30
750	224	503	191	279	–	235	660	321	32
800	241	546	210	305	–	255	724	346	34
850	250	584	222	330	–	273	775	368	36
925	267	635	241	356	–	292	838	400	38
1000	290	699	267	368	–	–	902	438	43
1100	314	741	286	406	–	–	978	470	44
1200	339	816	311	432	–	–	1054	514	50
1300	376	876	337	457	–	–	1130	556	52



Taper Bores Also Available

Coupling Size	Max. Kilowatt Per 100 RPM	④ Max. Speed (rpm)		Max. Continuous Torque (Nm)	Peak Overload Torque (Nm)	③ Weight (kg)	Weight Change Per mm of "C" (kg)	③ WR^2 ($kg\text{-}m^2$)	WR^2 Change Per mm of "C" ($kg\text{-}m^2$)	① Axial Capacity (mm)
	Service Factor 1.0	④ As Manufactured	Balanced							
125	3.2	5,000	15,000	305	610	2.1	0.003	0.0022	0.00170	±0.91
162	6.3	4,600	15,000	604	1,208	3.3	0.004	0.0046	0.00310	±0.91
200	12.5	4,250	15,000	1,185	2,371	5.6	0.004	0.0128	0.00670	±0.91
225	20.7	4,100	14,000	1,976	3,951	7.3	0.006	0.0178	0.00980	±0.91
262	38.9	3,900	13,000	3,706	7,413	11.8	0.009	0.0401	0.0180	±1.09
312	60.8	3,450	11,700	5,803	11,605	18.8	0.012	0.0878	0.0360	±1.29
350	79.0	3,200	10,500	7,552	15,105	26.6	0.015	0.154	0.0550	±1.42
375	118.6	3,000	9,400	11,323	22,646	36.3	0.018	0.266	0.0830	±1.57
425	158.8	2,800	8,700	15,161	30,323	47.2	0.026	0.404	0.135	±1.70
450	178.2	2,700	8,100	16,979	33,958	57.7	0.026	0.576	0.156	±1.82
500	291.5	2,500	7,100	27,817	55,633	89.0	0.041	1.112	0.313	±2.02
550	390.7	2,300	6,300	37,300	74,599	127.6	0.052	2.019	0.495	±2.33
600	512.9	2,150	5,700	48,973	97,945	168.0	0.059	3.277	0.705	±2.59
700	798.5	1,950	5,000	76,180	152,359	257.4	0.082	6.525	1.19	±2.92
750	992.4	1,850	4,600	94,694	189,388	323.2	0.093	9.685	1.65	±3.17
800	1276.5	1,750	4,300	121,777	243,554	413.6	0.107	15.05	2.30	±3.45
850	1506.1	1,600	3,900	143,712	287,424	503.5	0.107	20.98	2.30	±3.65
925	2039.2	1,500	3,600	194,626	389,253	662.4	0.143	32.60	4.61	±3.96
1000	2306.9	–	3,250	220,140	440,280	853.5	0.161	50.30	5.83	±4,36
1100	2750.5	–	3,100	262,475	524,949	1021.5	0.197	68.91	9.15	±4,64
1200	3353.7	–	2,800	320,050	640,099	1366.5	0.268	110.16	13.78	±5,15
1300	4010.6	–	2,600	382,705	765,410	1661.6	0.268	153.23	15.55	±5,53

① All Thomas® disc couplings meet NEMA frame sleeve bearing motor specifications without modification or the addition of end-float restricting devices.
② Additional "C" dimensions available. Consult Regal Rexnord.
③ Weight and WR^2 at maximum bore and standard "C" dimension listed.
④ Balance recommendations based on AGMA Specification 9000-C90 Average Sensitivity.
⑤ Consult Regal Rexnord for minimum rough bore sizes.

NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

SEE PAGES 21-23 FOR UPDATED VERSION WITH ENHANCED FEATURES

Series 71 couplings are adapter-style spacer disc couplings commonly used on motor, turbine, and gear driven pumps, compressors, and blowers. The simple three-piece design features unitized center member assembly and two pilot-fitted hubs. The piloting provides repeatable assembly of components for better dynamic balance characteristics. The center assembly simply "drops out" for fast installation or removal without special tools.

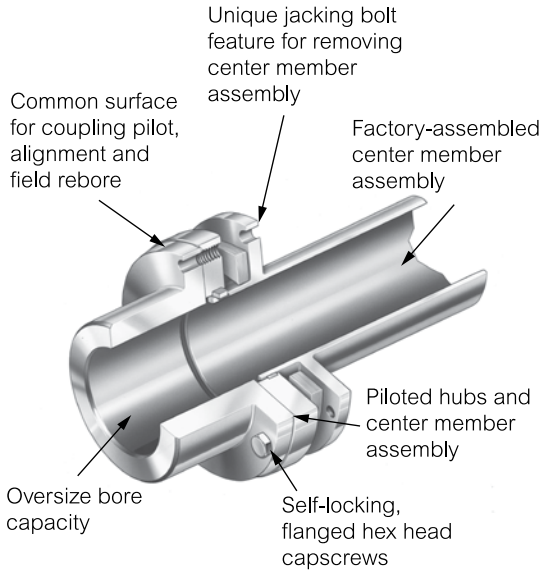
When specified, Series 71 couplings meet all requirements of API 610 or API 671.

General

Disc Pack Style: Slabbed (4- & 6-bolt designs) or Tpack (8-bolt design)
Angular Misalignment 1/3° per disc pack
Standard Balance: AGMA Class 9

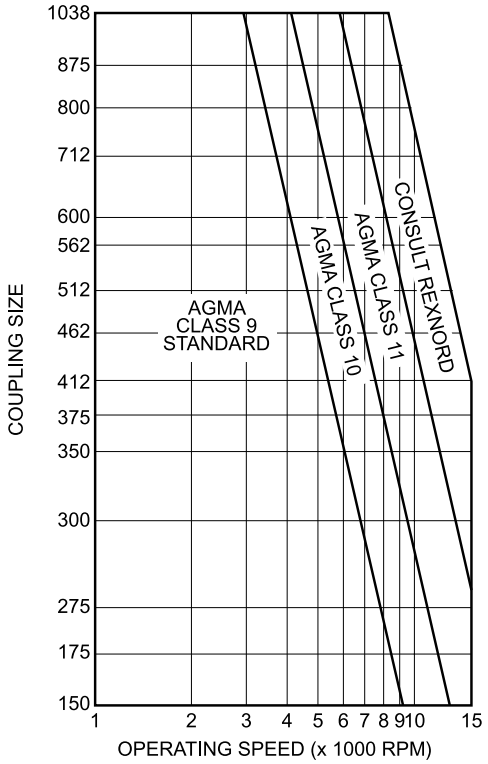
Standard Materials

Disc Pack: Stainless steel (Monel and Inconel available as options)
Major Components: Carbon steel
Bolts: Alloy steel
Coating Options: Black Oxide, Zinc, Cadmium

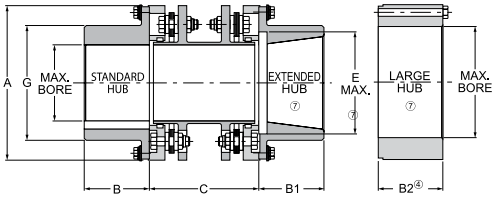


NOTE: These recommendations and balance classes are based on AGMA Specifications 9000-C90, high sensitivity. If conditions exist other than as defined in 9000-C90, for sensitivity, consult Regal Rexnord. The above information should be used as a guide only. AGMA Class 9 balance is furnished as standard when Series 71 couplings are finished bored with interference fits.

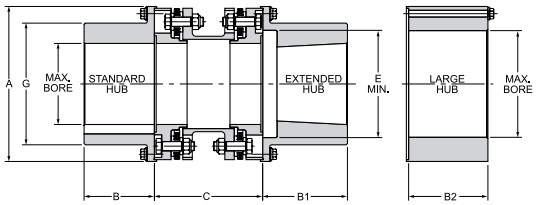
Series 71 Balance Recommendations



NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.



4- & 6-Bolt Design



8-Bolt Design

General Dimensions (mm)

Coupling Size	⑤ B&B[1] Hub Max. Bore	⑤ B&B[2] Hub Max. Bore	A	③ B	B1	Std. B2	Std. C	Min. C	Max. C	E	G
4-Bolt Design											
150	39	64	91	33	43	41	89	87	401	52	59
175	50	73	106	40	52	46	89	87	402	65	71
6-Bolt Design											
225	58	87	125	51	64	52	127	87	808	78	85
300	81	110	152	67	83	70	127	102	818	105	113
350	95	120	171	79	95	76	127	124	831	127	133
375	100	137	194	83	102	83	140	127	836	135	144
412	110	145	203	92	111	92	178	155	847	146	155
462	130	166	229	105	127	105	178	178	855	160	174
512	140	187	255	114	137	114	178	191	1163	179	194
562	156	200	279	127	152	127	203	203	1177	195	213
600	166	220	298	133	162	133	229	229	1188	211	227
8-Bolt Design											
225-8	80	106	152	64	79	78	127	121	823	106	116
262-8	95	128	175	78	94	90	178	140	833	119	132
312-8	112	145	203	90	109	105	191	152	838	146	160
350-8	130	166	227	99	121	114	191	171	850	165	179
375-8	144	185	252	113	135	131	191	184	857	181	202
425-8	158	203	273	124	149	140	203	191	1166	189	214
450-8	170	214	294	129	157	152	229	222	1180	213	236
500-8	196	248	333	151	179	171	279	260	1208	232	267
550-8	215	–	373	167	198	–	292	292	1224	254	292
600-8	242	–	416	183	214	–	318	318	1236	298	336
700-8	258	–	471	211	246	–	368	368	1257	325	373
750-8	286	–	511	227	262	–	400	400	1172	363	413

Coupling Size	Max. Kilowatt Per 100 RPM	④ Max. Speed (rpm)		Max. Continuous Torque (Nm)	Peak Overload Torque (Nm)	② Weight (kg)	Weight Change Per mm of "C" (kg)	② WR^2 ($kg\text{-}m^2$)	WR^2 Change Per mm of "C" ($kg\text{-}m^2\text{-}m$)	① Axial Capacity (mm)
	Service Factor 1.0	As Manufactured	④ Balanced							
4-Bolt Design										
150	1.1	9,000	20,800	105	210	3.0	0.0018	0.0031	0.00035	±0.127
175	1.9	8,300	17,000	184	368	4.3	0.0025	0.0060	0.00104	±0.1778
6-Bolt Design										
225	3.6	7,700	16,000	345	691	6.4	0.0034	0.0123	0.00288	±0.1905
300	8.6	6,800	14,000	820	1,639	11.8	0.0046	0.0354	0.00760	±2.159
350	15.8	6,200	13,500	1,513	3,026	19.5	0.0075	0.0758	0.0136	±2.296
375	22.8	5,650	12,000	2,179	4,358	25.0	0.0077	0.1238	0.0187	±2.413
412	26.6	5,350	11,000	2,540	5,080	32.2	0.0107	0.1799	0.0334	±2.794
462	47.8	5,000	10,000	4,561	9,122	45.9	0.0143	0.3248	0.0536	±3.048
512	65.0	4,700	9,200	6,209	12,418	61.3	0.0186	0.5355	0.0856	±3.302
562	99.4	4,350	8,300	9,494	18,988	84.4	0.0229	0.8837	0.120	±3.683
600	108.4	4,150	7,800	10,352	20,704	103.5	0.0313	1.2436	0.202	±4.064
8-Bolt Design										
225-8	20.7	7,500	14,000	1,976	3,952	12.6	0.0068	0.0375	0.0123	±0.91
262-8	38.8	6,800	12,500	3,706	7,412	19.5	0.0082	0.0775	0.0225	±1.09
312-8	60.8	6,200	11,500	5,803	11,606	30.0	0.0098	0.1697	0.0385	±1.29
350-8	79.1	5,700	10,500	7,552	15,104	43.0	0.0134	0.3017	0.0649	±1.42
375-8	118.6	5,200	9,800	11,323	22,646	61.0	0.0188	0.5220	0.106	±1.57
425-8	158.8	5,000	9,300	15,161	30,322	77.0	0.0218	0.7654	0.145	±1.70
450-8	177.8	4,700	8,700	16,979	33,958	100.0	0.0284	1.1763	0.207	±1.82
500-8	291.3	4,200	7,900	27,817	55,634	155.0	0.0379	2.3525	0.362	±2.02
550-8	390.6	3,900	7,300	37,300	74,600	216.0	0.0474	4.0759	0.574	±2.34
600-8	512.9	3,600	6,800	48,973	97,946	296.0	0.0545	7.0604	0.796	±2.59
700-8	797.8	3,300	6,200	76,180	152,360	436.0	0.0738	13.1377	1.36	±2.92
750-8	991.7	3,100	5,800	94,694	189,388	564.0	0.0924	20.2538	2.02	±3.18

① All Thomas® disc couplings meet NEMA frame sleeve bearing motor specifications without modifications or the addition of end-float restricting devices.
② Weight and WR^2 with standard length hubs, maximum bore and standard "C".
③ Extended hub length is designed longer in order to include a counter-bore for the threaded extension on a tapered shaft.
④ See page 4 for explanation of RPM limits and balancing recommendations.
⑤ Consult Regal Rexnord for minimum rough bore sizes.
⑥ If a block hub is supplied, extra capscrews will be provided for center member jacking feature.

NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

SN-GA Floating Shaft Coupling

Full floating shaft coupling designed to directly replace lubricated gear couplings found in many pulp and paper applications with large distances between connected equipment. The included adapters bolt up to existing AGMA Standard rigid gear coupling hubs, replacing the complete floating shaft assembly. Axial shims are supplied to allow minor axial positioning adjustment.

General

Disc Pack Style: Classic Round (Tpack available as option)
Angular Misalignment 1/3° per disc pack

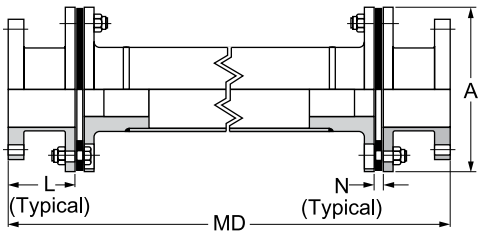
Standard Materials

Disc Pack: Stainless steel (Monel and Inconel available as options)
Major Components: Carbon steel
Bolts: Alloy steel

Available Adapters

Gear Coupling (Falk) / Thomas® Coupling	#1½ (1015)	#2 (1020)	#2½ (1025)	#3 (1030)	#3½ (1035)	#4 (1040)	#4½ (1045)	#5 (1050)	#5½ (1055)	#6 (1060)	#7 (1070)
226											
262											
312											
350											
375											
425											
450											
500T											
550T											
600T											
700T											
750T											
800T											
850T											

Available In These Sizes



For other sizes, please consult Regal Rexnord.

Coupling Size	Max. Kilowatt per 100 RPM Service Factor 1.0	Max. Continuous Torque (Nm)	② Peak Overload Torque (Nm)	A	L	Min. MD	N	① Axial Capacity (mm)
226	16.9	1611	3222	148	102	413	14.7	±0.91
262	26.0	2486	4971	170	114	438	11.9	±1.09
312	33.3	3186	6372	198	130	508	12.7	±1.29
350	41.5	3966	7931	222	135	562	13.7	±1.42
375	92	8733	17467	246	168	660	15.0	±1.57
425	139	13315	26629	267	165	667	15.7	±1.70
450 ③	161	15365	30731	287	171	724	19.8	±1.82
500T	275	26257	52513	327	184	762	19.8	±2.00
550T	318	30414	60828	367	197	851	23.1	±2.33
600T	486	46435	92870	406	232	933	24.9	±2.59
700T	649	62026	124052	464	235	1029	30.5	±2.92
750T	746	71290	142581	503	248	1092	32.3	±3.17
800T	1074	102586	205172	546	260	–	34.0	±3.45
850T	1309	125069	250138	584	260	–	35.6	±3.65

① All Thomas disc couplings meet NEMA frame sleeve bearing motor specifications without modification or the addition of end-float restricting devices.
② The peak overload torque is not an alternating torque limit.
③ Available with Tpack for new couplings, not retrofittable in size 450.

NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

Floating shaft couplings are used to connect units which are relatively far apart. Such arrangements are particularly suited to transmit power into areas where moisture, dust or corrosive conditions would adversely affect the driving machinery. Floating shaft couplings' operating speeds are dependent upon the length of span required. Refer to the speed/span table for speed recommendations. In addition, special balancing may be required for high-speed service or for extended shaft lengths. Consult Regal Rexnord for intended applications at speeds not covered in the table. The SN, SF and SV type couplings are furnished with stainless steel disc packs unless otherwise specified.

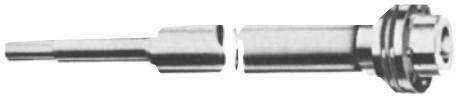
Type SN
Full-Floating Shaft Coupling

Type SN couplings use a tubular center shaft, fabricated complete by Regal Rexnord. Typical applications include cooling tower fan drives, paper machinery, printing presses, pumps and compressors.

Connected shafts should be rigidly supported and long shaft overhang should be avoided. The tubular coupling shaft MUST NOT be supported with a bearing. They may be operated vertically if length does not exceed 36 in.

Type SF
Semi-Floating Shaft Coupling

Type SF couplings are a tubular shaft design with a stub shaft and bearing journal replacing the half-coupling on one end. They are typically used in tandem with the Type SN or Type SV where spans are too long for a single section of shafting.



Type SV
Vertical Floating Shaft Couplings

Type SV couplings are similar to the Type SN except that the lower half-coupling is modified to support the weight of the floating shaft. Typical applications include fresh-water pumps, sewage pumps, and marine cargo pumps. They may be used in tandem with the Type SF where spans are too long for a single shaft.

Corrosion Resistant Materials

Types SN, SV and SF couplings are particularly suited to applications involving wet or corrosive conditions, for this reason they are all furnished with 300 series stainless steel disc packs. For extremely corrosive environments, 316 stainless steel, Inconel 625 or Monel disc pack materials are available on request. As standard, these couplings are available in the following material classes.

NOTE: The stub shaft on the SF coupling is always furnished as unplated carbon steel in classes A, B, C and D. Couplings may be painted with acid and alkali resistant paints or coating besides the corrosion resistant classes listed.

CLASS

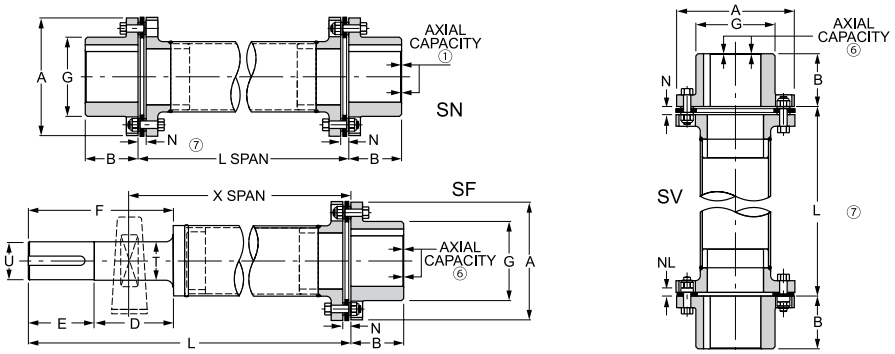
A – All steel
B – All steel – zinc plated
C – All steel – zinc plated w/stainless steel hardware
D – Stainless steel except for zinc plated hubs
E – All 300 series stainless steel

Floating Shaft Couplings

Types SN, SV and SF center members are of tubular construction, requiring special considerations for the operating speed and span length. The graph to the right may be used as a guide when determining whether it is desirable to balance the center member.

The standard procedure for balancing of SN, SV and SF couplings includes straightening of the tubular shaft prior to balancing. Many couplings of this type operate relatively near to the lateral resonant frequency of the coupling center member, and special balancing techniques are often required. For speeds 1800 RPM and under see page 4 for balancing recommendations. Consult Regal Rexnord for any application with speed in excess of 1800 RPM.

NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.



General Dimensions

⑤ Coupling Size	Coupling Type			Max. Bore	A	B	D	E	③ T	③ U	F	G	N	NL	② Min. L	
	SN	SV	SF ⑧												SN	SF
50	•			16	51	22	–	–	–	–	–	25	6.1	–	102	–
62	•			19	62	28	–	–	–	–	–	30	8.1	–	114	–
75	•			22	68	29	–	–	–	–	–	37	8.4	–	121	–
100	•	•	•	29	82	35	95	44	24	22	140	43	11.4	3.3	146	305
125	•	•	•	35	98	41	108	54	30	29	162	52	13.2	3.8	159	310
162	•	•	•	48	114	48	114	67	37	35	181	70	13.7	4.1	171	335
200	•	•	•	57	138	54	140	73	43	41	213	83	14.5	4.1	191	394
226*	•	•	•	67	148	67	143	86	49	48	229	96	14.7	4.6	210	419
262	•	•	•	80	170	76	156	95	56	54	251	114	11.9	5.6	210	457
312	•	•	•	92	198	86	162	102	62	60	264	133	12.7	6.4	248	495
350	•	•	•	102	222	95	191	114	75	73	305	149	13.7	7.4	292	521
375	•	•	•	114	246	102	203	121	87	86	324	165	15.0	8.4	324	589
425	•	•	•	121	267	108	229	127	94	92	356	178	15.7	9.4	337	640
450*	•	•		130	287	114	–	–	–	–	–	189	19.8	10.2	381	–
500T	•	•		137	327	127	–	–	–	–	–	213	19.8	11.9	394	–
550T	•	•		152	367	140	–	–	–	–	–	240	23.1	13.5	457	–
600T	•	•		165	406	152	–	–	–	–	–	260	24.9	15.2	470	–
700T	•	•		191	464	178	–	–	–	–	–	298	30.5	17.8	559	–
750T	•	•		203	503	191	–	–	–	–	–	321	32.3	19.6	597	–
800T	•	•		222	546	210	–	–	–	–	–	346	34.0	21.3	660	–
850T	•	•		235	584	222	–	–	–	–	–	368	35.6	22.9	914	–
925T	•	•		257	635	241	–	–	–	–	–	400	38.1	25.4	914	–

⑤ Coupling Size	Max. Continuous Torque (Nm)	Peak Overload Torque (Nm)	④ Weight (kg)		Weight Change Per mm of "L" (kg)	④ WR^2 (kg-m^2)		WR^2 Change Per mm of "L" (kg-m^2-m)	① ⑥ Type SN Axial Capacity (mm)
			SN, SV	SF		SN, SV	SF		
50	19	38	0.499	–	0.00039	0.147	–	0.0194	±0.58
62	33	66	0.726	–	0.00054	0.352	–	0.0470	±0.71
75	46	93	1.09	–	0.00093	0.557	–	0.134	±0.81
100	93	185	2.22	1.63	0.00136	1.55	0.908	0.246	±0.96
125	252	504	3.41	2.95	0.00170	3.57	2.08	0.505	±1.16
162	480	960	4.99	4.77	0.00232	7.91	4.4	1.64	±0.91
200	972	1943	9.53	4.99	0.00518	9.38	4.98	4.17	±0.91
226*	1611	3222	12.08	11.35	0.00589	30.8	17.9	6.10	±0.91
262	2486	4971	17.52	16.34	0.00732	63.9	39	11.91	±1.09
312	3186	6372	28	25	0.00839	133.6	85.3	16.38	±1.29
350	3966	7931	39	35	0.00929	236	140	23.06	±1.42
375	8733	17467	58	50	0.0173	416	247	54.36	±1.57
425	13315	26629	79	–	0.0282	717	–	118	±1.70
450*	15365	30731	94	–	0.0282	982	–	118	±1.82
500T	26257	52513	109	–	0.0425	1452	–	305	±2.02
550T	30414	60828	153	–	0.0425	2461	–	305	±2.33
600T	46435	92870	201	–	0.0602	4251	–	678	±2.59
700T	62026	124052	326	–	0.0814	8195	–	894	±2.92
750T	71290	142581	400	–	0.0814	11799	–	894	±3.17
800T	102586	205172	518	–	0.0973	18802	–	1527	±3.45
850T	125069	250138	645	–	0.107	26877	–	2040	±3.65
925T	165629	331257	826	–	0.123	42046	–	3081	±3.96

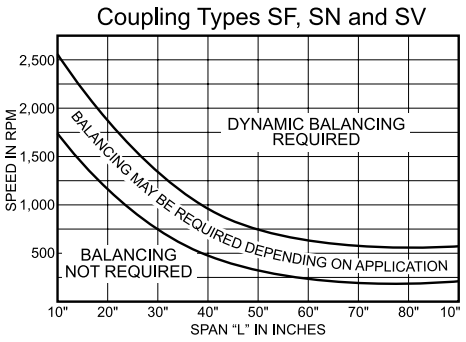
① All Thomas® disc couplings meet NEMA frame sleeve bearing motor specifications without modification or the addition of end-float restricting devices.
② Shorter "L" requires special construction. Consult Regal Rexnord.
③ Shaft tolerances per ANSI/AGMA 9002-C14. Key furnished with standard keyway in SF stub shaft.
④ Weight and WR^2 at max. bore and min. "L" dimension.
⑤ T suffix to coupling size indicates thin flange design. Consult Regal Rexnord for larger sizes.
⑥ Types SF and SV end-float is one half ± value shown for type SN.
⑦ Maximum span (L) for various speeds - For SN & SV
⑧ Consult Regal Rexnord for larger sizes.
*Not available with Tpack.

NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

Maximum Span at Given RPM

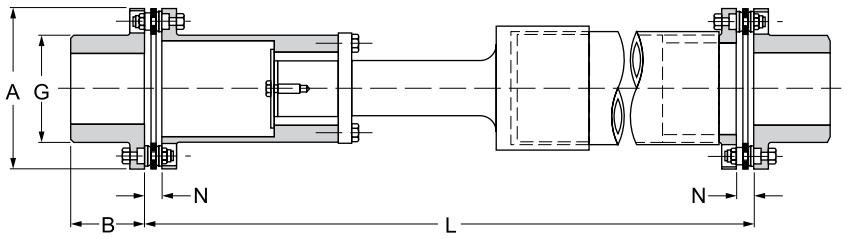
Coupling Size	3600 RPM	3000 RPM	1800 RPM	1500 RPM	1200 RPM	1000 RPM	900 RPM	750 RPM	720 RPM	600 RPM	500 RPM
50	Consult Regal Rexnord		43	47	52	56	56	56	56	56	56
62			50	54	61	67	70	75	75	75	75
75			56	61	68	75	79	86	88	94	94
100	41	45	57	64	71	78	82	91	93	102	102
125	47	51	64	72	81	88	93	103	105	114	114
162	54	59	75	84	94	103	109	119	122	133	133
200	60	66	85	93	104	114	120	132	135	147	161
226	64	70	90	99	112	122	128	141	144	157	172
262	71	77	100	110	123	135	142	156	160	173	191
312	75	82	107	117	130	143	151	165	173	185	203
350	79	87	113	123	138	151	159	174	178	195	213
375	87	95	123	135	151	165	174	191	195	213	234
425	90	99	128	141	157	172	182	199	203	222	244
450*	90	99	128	141	157	172	182	199	203	222	244
500T	104	113	147	161	180	197	207	227	232	254	279
550T	Consult Regal Rexnord		147	161	180	197	207	227	232	254	279
600T			165	180	202	221	233	255	260	285	312
700T			164	179	200	219	231	253	258	283	310
750T			164	179	200	219	231	253	258	283	
800T			179	196	219	240	252	276	282	309	
850T			187	205	229	251	265	290	296	Consult Regal Rexnord	
925T			200	220	245	269	284	311	317		

* Not available with Tpack



Type SN Adjustable

Type SN adjustable couplings were developed as emergency replacements for standard Type SN couplings. Each shaft may be adjusted through a 100mm length range, using a special compression bushing to lock the shaft in place once the length is set.



General Dimensions (mm)

Coupling Size	Max. Bore	A	B	G	H	Min. "L"	Adjustment Range	② Weight (kg)	Weight Change Per mm of "L" (kg)	② WR^2 ($kg\text{-}m^2$)	WR^2 Change per mm of "L" ($kg\text{-}m^2$)	① Axial Capacity (mm)
162	48	114	48	70	14	362	101.6	8.6	0.06	0.0108	0.0640	±0.91
200	57	138	54	83	14	384	101.6	13.6	0.13	0.0234	0.164	±0.91
226	67	148	67	96	15	439	101.6	19.5	0.15	0.0442	0.240	±0.91
262	79	170	76	114	12	480	101.6	27.7	0.19	0.0741	0.469	±1.09

① All Thomas® disc couplings meet NEMA frame sleeve bearing motor specifications without modification or the addition of end-float restricting devices.
② Weight and WR^2 at maximum bore.

NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

SN Single Flexing Disc Coupling

Type SN couplings are used for single-flexing applications where light-to-moderate radial loads occur, or may be combined with intermediate solid shaft for floating shaft applications. They do not accommodate parallel misalignment and are not suitable for connecting equipment where both shafts are held rigidly in their bearings.

General

Disc Pack Style: Classic Round (Tpack available as option)
Angular Misalignment 1/3° per disc pack

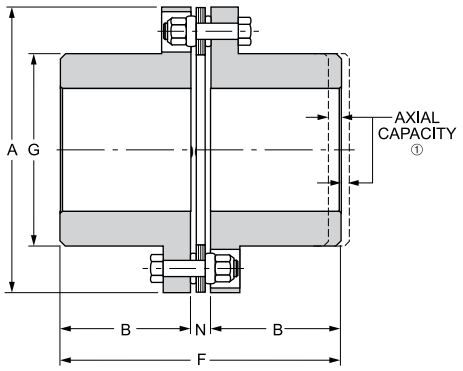
Standard Materials

Disc Pack: Tomaloy (Stainless steel, Monel and Inconel available as options)
Major Components: Carbon steel
Bolts: Alloy steel

NOTE:
Single-flexing couplings cannot accommodate parallel misalignment. They are not suitable for connecting equipment where both shafts are held rigidly in their own bearings.

General Dimensions (mm)

Coupling Size	② Max. Bore	A	B	F	G	N
100	28	82	35	82	43	11.4
125	34	98	41	96	52	13.2
162	50	114	48	109	70	13.7
200	58	138	54	123	83	14.5
226	70	148	67	148	96	14.7
262	84	170	76	164	114	11.9
312	97	198	86	184	133	12.7
350	110	222	95	204	149	13.7
375	120	246	102	218	165	15.0
425	130	267	108	232	178	15.7
450	140	287	114	248	189	19.8
500T	146	327	127	274	213	19.8
550T	166	367	140	303	240	23.1
600T	176	406	152	330	260	24.9
700T	205	464	178	386	298	30.5
750T	224	503	191	413	321	32.3



Coupling Size	Max. Kilowatt Per 100 RPM Service Factor 1.0	Max. RPM	Max. Continuous Torque (Nm)	Peak Overload Torque (Nm)	③ Weight (kg)	③ WR^2 ($kg\text{-}m^2$)	① Axial Capacity (mm)
100	0.97	7,100	93	185	1.0	0.0008	±0.48
125	2.64	6,500	252	504	1.7	0.0019	±0.58
162	5.03	6,000	480	960	2.6	0.0050	±0.45
200	10.2	5,500	972	1943	5.0	0.0108	±0.45
226	16.9	5,200	1611	3222	6.4	0.0155	±0.45
262	61	4,800	5966	11931	10.4	0.0342	±0.55
312	61	4,500	5,803	11605	16.8	0.0772	±0.66
350	79	4,100	7,552	15105	23.6	0.134	±0.71
375	119	3,900	11,323	22646	32.2	0.225	±0.78
425	159	3,700	15,161	30323	40.4	0.339	±0.86
450	178	3,600	16,979	33958	54.9	0.462	±0.91
500T	292	2,800	27,817	55633	68.1	0.837	±1.04
550T	391	2,500	37,300	74599	95.3	1.50	±1.16
600T	513	2,300	48,973	97945	116.7	2.05	±1.29
700T	799	2,000	76,180	152359	177.1	3.54	±1.47
750T	992	1,800	94,694	189388	242.4	7.21	±1.58

① All Thomas® disc couplings meet NEMA frame sleeve bearing motor specifications without modification or the addition of the end-float restricting devices.
② Consult Regal Rexnord for minimum rough bore on sizes 162-450.
③ Weight and WR^2 shown at maximum bore.

NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

Recommended Hub Bores for Clearance & Interference Fit on Keyed Shafting

	Shaft Diameter	Clearance Fit		Transitional Fit		Interference Fit	
		Hub Bore	Fit*	Hub Bore	Fit*	Hub Bore	Fit*
	j6	F7	+.008	H7	-.008	M6	-.023
MM	+.008/-.003	+.016/+.034	+.037	+.000/+.018	+.021	-.015/-.004	-.001
12	12.008/11.997	12.016/12.034		12.000/12.018		11.985/11.996	
14	14.008/13.997	14.016/14.034		14.000/14.018		13.985/13.996	
16	16.008/15.997	16.016/16.034		16.000/16.018		15.985/15.996	
18	18.008/17.997	18.016/18.034		18.000/18.018		17.985/17.996	
	j6	F7	+.011	H7	-.009	M6	-.026
MM	+.009/-.004	+.020/+.041	+.045	+.000/+.021	+.025	-.017/-.004	+.000
19	19.009/18.996	19.020/19.041		19.020/19.041		18.983/18.996	
20	20.009/19.996	20.020/20.041		20.020/20.041		20.983/20.996	
22	22.009/21.996	22.020/22.041		22.020/22.041		21.983/21.996	
24	24.009/23.996	24.020/24.041		24.020/24.041		23.983/23.996	
25	25.009/24.996	25.020/25.041		25.020/25.041		24.983/24.996	
28	28.009/27.996	28.020/28.041		28.020/28.041		27.983/27.996	
30	30.009/29.996	30.020/30.041		30.020/30.041		29.983/29.996	
>30	k6	F7	+.007	H7	-.018	K6	-.031
MM	+.018/+.002	+.025/+.050	+.048	+.000/+.025	+.023	-.013/+.003	+.001
32	32.018/32.002	32.025/32.050		32.000/32.025		31.987/32.003	
35	35.018/35.002	35.025/35.050		35.000/35.025		34.987/35.003	
38	38.018/38.002	38.025/38.050		38.000/38.025		37.987/38.003	
40	40.018/40.002	40.025/40.050		40.000/40.025		39.987/40.003	
42	42.018/42.002	42.025/42.050		42.000/42.025		41.987/42.003	
45	45.018/45.002	45.025/45.050		45.000/45.025		44.987/45.003	
48	48.018/48.002	48.025/48.050		48.000/48.025		47.987/48.003	
50	50.018/50.002	50.025/50.050		50.000/50.025		49.987/50.003	
>50	m6	F7	+.000	H7	-.030	K7	-.051
MM	+.030/+.011	+.030/+.060	+.049	+.000/+.030	+.019	-.021/+.009	-.002
55	55.030/55.011	55.030/55.060		55.000/55.030		54.975/55.009	
56	56.030/56.011	56.030/56.060		56.000/56.030		55.975/56.009	
60	60.030/60.011	60.030/60.060		60.000/60.030		59.975/60.009	
63	63.030/63.011	63.030/63.060		63.000/63.030		62.975/63.009	
65	65.030/65.011	65.030/65.060		65.000/65.030		64.975/65.009	
70	70.030/70.011	70.030/70.060		70.000/70.030		69.975/70.009	
71	71.030/71.011	71.030/71.060		71.000/71.030		70.975/71.009	
75	75.030/75.011	75.030/75.060		75.000/75.030		74.975/75.009	
80	80.030/80.011	80.030/80.060		80.000/80.030		79.975/80.009	
>80	m6	F7	+.001	H7	-.035	M7	-.070
MM	+.035/+.013	+.036/+.071	+.058	+.000/+.035	+.022	-.035/+.000	-.013
85	85.035/85.013	85.036/85.071		85.000/85.035		84.965/85.000	
90	90.035/90.013	90.036/90.071		90.000/90.035		89.965/90.000	
95	95.035/95.013	95.036/95.071		95.000/95.035		94.965/55.000	
100	100.035/100.013	100.036/100.071		100.000/100.035		99.965/100.000	
>100	m6	F7		H7		P7	-.094
MM	+.035/+.013	+.036/+.071		+.000/+.035		-.059/-.024	-.037
110	110.035/110.013	110.036/110.071		110.000/100.035		109.941/109.976	
120	120.035/120.013	120.036/120.071		120.000/120.035		119.941/119.976	
>120	m6	F7	+.003	H7	-.040	P7	-.108
MM	+.040/+.015	+.043/+.083	+.068	+.000/+.040	+.025	-.068/-.028	-.043
125	125.040/125.015	125.043/125.083		125.000/125.040		124.932/124.972	
130	130.040/130.015	130.043/130.083		130.000/130.040		129.932/129.972	
140	140.040/140.015	140.043/140.083		140.000/140.040		139.932/139.972	
150	150.040/150.015	150.043/150.083		150.000/150.040		149.932/149.972	
160	160.040/160.015	160.043/160.083		160.000/160.040		159.932/159.972	
170	170.040/170.015	170.043/170.083		170.000/170.040		169.932/169.972	
180	180.040/180.015	180.043/180.083		180.000/180.040		179.932/179.972	
>180	m6	F7	+.004	H7	-.046	P7	.125
MM	+.046/+.017	+.050/+.096	+.079	+.000/+.046	+.029	-.079/-.033	-.050
190	190.046/190.017	190.050/190.096		190.000/190.046		189.921/189.967	
200	200.046/200.017	200.050/200.096		200.000/200.046		199.921/199.967	
>200	m6	F7		H7		R7	-.155
MM	+.046/+.017	+.050/+.096		+.000/+.046		-.109/-.063	-.080
210	210.046/210.017	210.050/210.096		210.000/210.046		209.891/209.937	
220	220.046/220.017	220.050/220.096		220.000/220.046		219.891/219.937	
225	225.046/225.017	225.050/220.096		225.000/225.046		224.891/224.937	
>225	m6	F7		H7		R7	-.159
MM	+.046/+.017	+.050/+.096		+.000/+.046		-.113/-.067	-.084
230	230.046/230.017	230.050/230.096		230.000/230.046		229.887/229.933	
240	240.046/240.017	240.050/240.096		240.000/240.046		239.887/239.933	
250	250.046/250.017	250.050/250.096		250.000/250.046		249.887/249.933	
>250	m6	F7	+.004	H7	-.052	R7	-.178
MM	+.052/+.020	+.056/+.108	+.088	+.000/+.052	+.032	-.126/-.074	-.094
260	260.052/260.020	260.056/260.108		260.000/260.052		259.874/259.926	
270	270.052/270.020	270.056/270.108		270.000/270.052		269.874/269.926	
280	280.052/280.020	280.056/280.108		280.000/280.052		279.874/279.926	
>280	m6	F7		H7		R7	-.182
MM	+.052/+.020	+.056/+.108		+.000/+.052		-.130/-.078	-.098
290	290.052/290.020	290.056/290.108		290.000/290.052		289.870/289.922	
300	300.052/300.020	300.056/300.108		300.000/300.052		299.870/299.922	
310	310.052/310.020	310.056/310.108		310.000/310.052		309.870/309.922	
315	315.052/315.020	315.056/310.108		315.000/315.052		314.870/314.922	
>315	m6	F7	+.005	H7	-.057	R7	-.201
MM	+.057/+.021	+.062/+.119	+.098	+.000/+.057	+.036	-.144/-.087	-.108
320	320.057/320.021	320.062/320.119		320.000/320.057		319.856/319.813	
330	330.057/330.021	330.062/330.119		330.000/330.057		329.856/329.813	
340	340.057/340.021	340.062/340.119		340.000/340.057		339.856/339.813	
350	350.057/350.021	350.062/350.119		350.000/350.057		349.856/349.813	
355	355.057/355.021	355.062/355.119		355.000/355.057		354.856/354.813	
>355	m6	F7		H7		R8	-.260
MM	+.057/+.021	+.062/+.119		+.000/+.057		-.203/-.114	-.135
360	360.057/360.021	360.062/360.119		360.000/360.057		359.797/359.886	
370	370.057/370.021	370.062/370.119		370.000/370.057		369.797/369.886	
380	380.057/380.021	380.062/380.119		380.000/380.057		379.797/379.886	
390	390.057/390.021	390.062/390.119		390.000/390.057		389.797/389.886	
400	400.057/400.021	400.062/400.119		400.000/400.057		399.797/399.886	
>400	m6	F7	+.005	H7	-.063	R8	-.286
MM	+.063/+.023	+.068/+.131	+.108	+.000/+.063	+.040	-.223/-.126	-.149
410	410.063/410.023	410.068/410.131		410.000/410.063		409.777/409.874	
420	420.063/420.023	420.068/420.131		420.000/420.063		419.777/419.874	
430	430.063/430.023	430.068/430.131		430.000/430.063		429.777/429.874	
440	440.063/440.023	440.068/440.131		440.000/440.063		439.777/439.874	
450	450.063/450.023	450.068/450.131		450.000/450.063		449.777/449.874	
>450	m6	F7		H7		R8	-.292
MM	+.063/+.023	+.068/+.131		+.000/+.063		-.229/-.132	-.155
460	460.063/460.023	460.068/460.131		460.000/460.063		459.771/459.868	
470	470.063/470.023	470.068/470.131		470.000/470.063		469.771/469.868	
480	480.063/480.023	480.068/480.131		480.000/480.063		479.771/479.868	
490	490.063/490.023	490.068/490.131		490.000/490.063		489.771/489.868	
500	500.063/500.023	500.068/500.131		500.000/500.063		499.771/499.868	

NOTE: Consult Regal Rexnord for all keyless bore fits.

Taper-Lock and Q.D. Bushing Selection Cross Reference

In order to cross reference tapered bushing and bore sizes to a coupling selection, the following tables will cover the majority of cases.

Hubs bored for Q.D. or Taper-Lock® bushings will be modified for proper fit with bushing length. Consult Regal Rexnord for specific dimensional data.

If specific reference to the coupling series or type is not found in the table, i.e. special designs, comparison of the shaft size with the maximum bore table only, will indicate the correct taper bushing in the left side of each table. Other flange style and compression bushings can be used with coupling hubs.

Taper-Lock Type

Bushing Size	Coupling Size and Type					
	Max. Bore	DBZ	SV, SF, SN	Series 52	Series 54RDG	AMR, BMR, CMR, ST
1108	28	126	125	125	162	162
1215	32	163	162	162	200	200
1310	35	201	200	200	200	200
1610	41	201	200	200	200	200
1615	41	201	200	200	225	200
2012	51	226	226	225	262	262
2517	63	263	262	262	312	312
2525	63	263	262	262	312	262
3020	76	351	350	350	375	375
3030	76	351	312	312	350	350
3535	89	401	375	375	450	425

NOTE: "C" Dimension will be as listed for all couplings; "F" Dimension will vary according to bushing selection; Consult Regal Rexnord for "F" dimensions and bushings.

Q.D. Type

① Bushing Size	Coupling Size and Type						
	Max. Bore	DBZ	SV, SF, SN	Series 52	Series 54RDG	Series 71	AMR, BMR, CMR, ST
JA	30	126	125	125	162	150	162
SH	35	163	162	200	200	175	200
SDS	42	201	226	225	225	300	200
SD	42	201	226	225	225	300	200
SK	55	263	262	262	312	300	262
SF	63	301	312	350	350	350	312
E	75	401	375	375	425	462	375
F	90	–	450	450	500	512	450

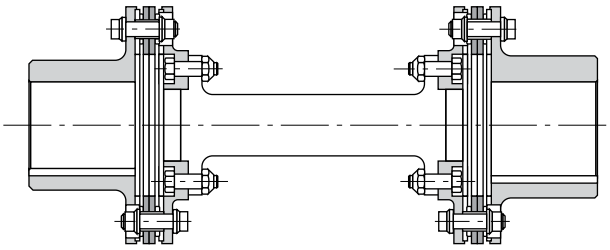
① With shallow keyway. Key supplied with bushing where shallow keyway is furnished.

NOTE: Dimensions subject to change. Certified dimensions of ordered material furnished on request.

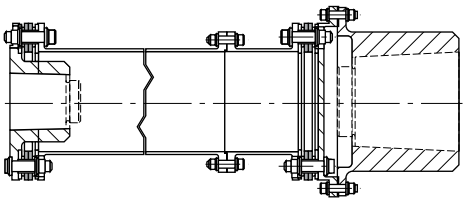
Notes

Customized Flexible Disc Couplings Designs

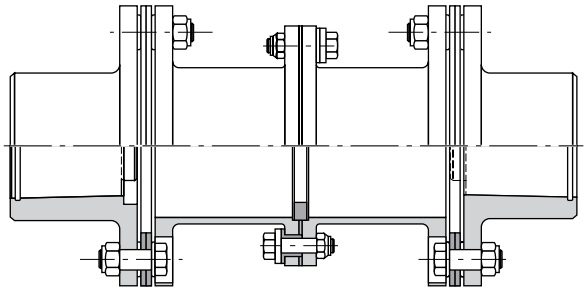
The following pages illustrate a sampling of the special disc coupling products designed and manufactured by Regal Rexnord for applications requiring special coupling designs; please contact your Regal Rexnord™ representative.



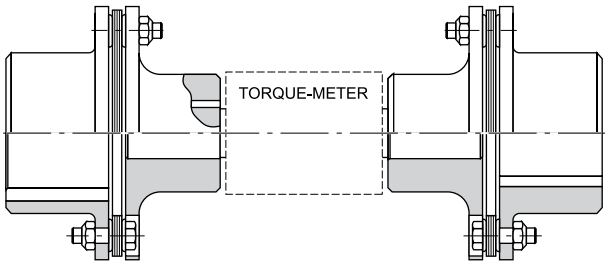
Torsionally Tuned Center Members



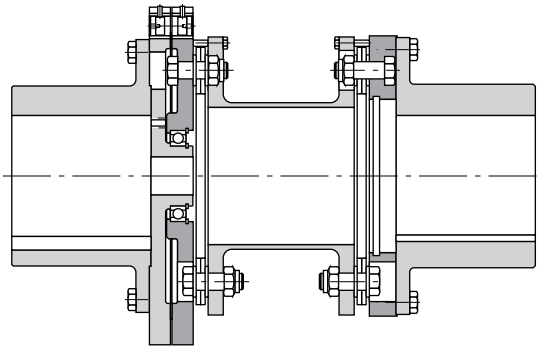
Semi-Reduced Moment – Bolt On Hub



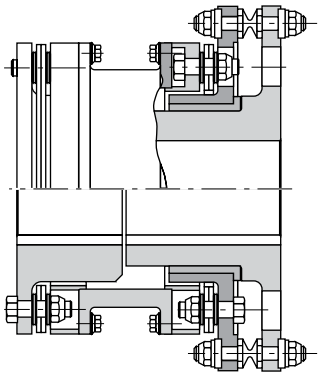
Electrically Insulated Couplings



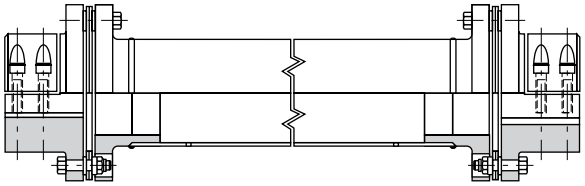
Torque Meter Coupling



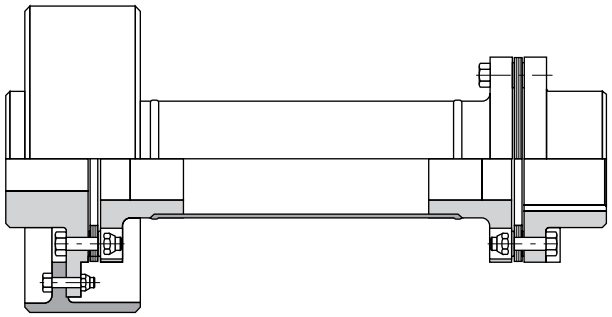
Breaker Pin Coupling – Bearing Style



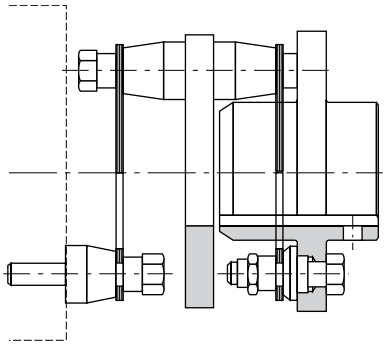
Breaker Pin Coupling – Bushing Style



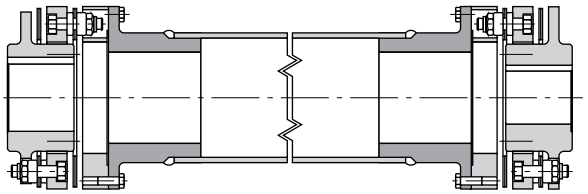
Clamp Hub Mounting



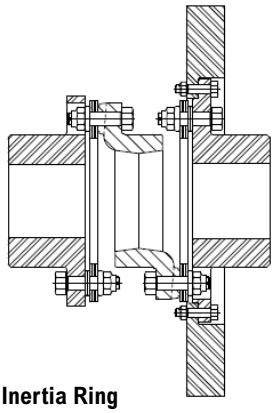
Brake Drum Hub



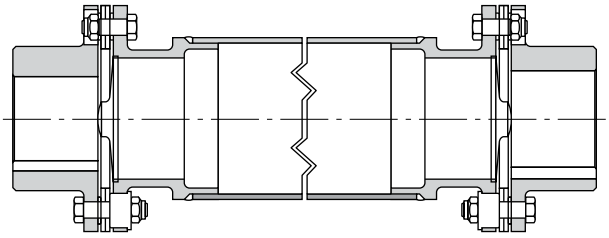
Motor-Tachometer Coupling



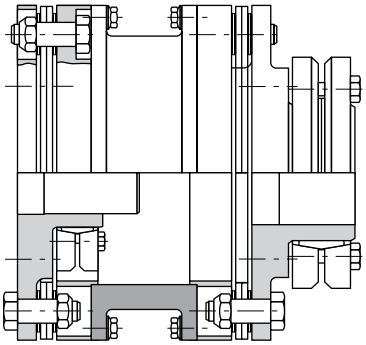
Double Disc Packs



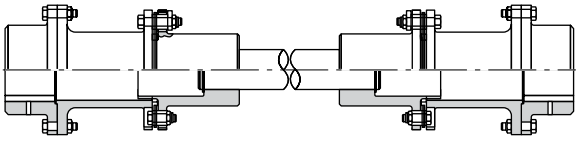
AMR Bolt-On Inertia Ring



Axial Limiting Stops



Shrink Disc Hub Mounting



Slide Coupling

PRODUCT CATALOG

REXNORD
Thomas

Industrial Powertrain Solutions
Regal Rexnord

Contact us: rexnord.com/contact

regalrexnord.com

RegalRexnord™