RegalRexnord™

Rexnord™ Viva™ Elastomeric Couplings

IMPERIAL

REXNORD™

PRODUCT CATALOG

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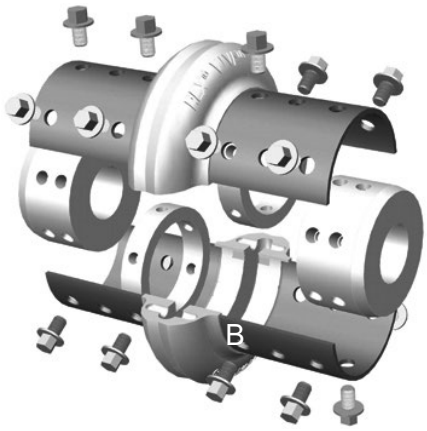
† See back cover.

DESCRIPTION

Viva™ Close-Coupled Couplings



Viva Spacer Couplings

A — Two-piece flex element design allows for simple replacement without disturbing hubs or connected equipment.

B — Tough polyurethane material is bonded to a corrosion resistant coated shoe, eliminating the need for mechanical clamping hardware.

C — Adhesive coated high strength carbon steel shoe resists corrosion.

D — Easily aligned reversible hubs accomodate multiple shaft gaps. Hubs are available in rough bore, custom bore, or bushed designs. Optional hub materials are available.

E — High grade capscrews are provided with self-locking nylon thread patches. Stainless steel capscrews are also available.

F — Torsionally soft polyurethane element cushions shock loads, accomodates unavoidable misalignment and is compatible with most environments.

G — "V" notch design directs stress concentration away from the bond area providing a uniform failure area for overload protection if required.

Rexnord™ Viva is based on the design of its reputable predecessor, Rexnord Omega™. Design upgrades allow Rexnord Viva to transmit greater torque with a smaller coupling that, in addition, can accept larger bores. Although they have similar configurations, their parts are not interchangeable.

Rexnord Viva is a non-lubricated, torsionally flexible coupling. Its angular, axial and radial flexibility comes from its polyurethane element. It consists of only three components; one split and half element and two hubs.

All versions are field adjustable to meet ISO, DIN and ANSI shaft spacing specifications (up to 11.82 inches) without the need of additional parts.

THE FLEXIBLE ELEMENT

The unique two-piece, split-in-half flexible element allows replacement without disturbing the hubs or connected equipment. A half element consists of a polyurethane element chemically bonded to two formed steel shoes. It transmits torque in shear through the element. Patented stress relief notches found on the end of each element uniformly distribute shear stresses.The polyurethane is formulated to withstand cyclic fatigue, common environmental conditions, and industrial chemicals. Although not to be used as a torque limiting device, the element serves as a fuse disconnecting the equipment in case of lockup or severe overload conditions. The steel shoes are coated for optimal resistance against oxidation and industrial chemicals. Paired half elements are supplied factory weight matched to ensure standard balance conform with ANSI/ AGMA 9000 Class 8 standard.

Upgrades: The "V"notch on the polyurethane element channels stresses to provide a uniform center-line tear for overload protection.

Longer shoes for the smaller sizes reduce the need to oversize selections to meet required distance between shaft ends.

The VSX version connects shafts with extended shaft gaps (up to 11.82 inches) maintaining the basic three component design; one split and half element and two hubs.

CAPSCREWS

Metric capscrews with self-locking Nylon thread patches are in standard steel (stainless steel optional). They conform to precise engineering specifications and are supplied standard with flexible elements. They fasten radially for easy accessibility. The capscrews generate a clamping force between the hub's outer diameter and the inner shoe surface.

HUBS

In standard carbon steel, hubs are also available in stainless steel or with special surface treatment for particular corrosion resistance. They can be used interchangeably with V, VS and VSX (see below) versions for any given size.

Upgrades: A cylindrical hub, without a step for the smaller sizes, accepts larger bores. Two rows of radial holes grant more field spacing adjustability.

HIGH SPEED RINGS

Machined from cold rolled steel, the rings are optional as reinforcement for the VS version and standard on VSX version.

Upgrades: Not required for any size of the VS version.

NOMENCLATURE

1	2	3	-	4	-	5	6

1 — Coupling Series
V: Close Coupled
VS: Spacer Coupled
VSX: Extented spacer coupled

2 — Sizes
110, 125, 130, 150, 170, 190, 215, 245, 290, 365, 425, 460

3 — Capscrew Material
No Code: Carbon steel
SS: A2-70 stainless steel capscrews

4 — High Speed Ring (Only VS and VSX Series)
No Code: Without rings
R: With high-speed rings; Standard on VSX series

5 — Hub Type*
HRB: Hub rough bored (pilot bored)
HCB: Hub custom bored (specify bore & keyway)
HTL: Hub Taper-Lock®† bushings (bushing nut included)
HTLM: Hub Taper-Lock (Magic-Lock BSW thread not included)
HQD: Hub quick disconect (bushings not included)

6 — Hub Material
No Code: Carbon Steel
SS: Stainless steel

EXAMPLE

V	S	125		-	R	-	HCB		ø28 mm H7 / ø30 mm H7

HOW TO SELECT

1. Choose Coupling Type:
   The choice is based on the type of application and the operating conditions.

2. Calculate the operating torque $T = \frac{hp \times 63{,}025}{rpm}$

   where
   T = torque (in-lbs)
   hp = horsepower of equipment
   rpm = Speed of equipment

3. Determine Service Factor:

   Select the proper service factor from the table on page 6. If not listed, see load classification table on page 7.

   Page 6 service factors apply for smooth drivers, such as electric motors or turbines.

4. Calculate the equivalent torque Teq (in-lbs):

   Teq = T x SF

   where:
   T = torque (in-lbs) of the driven machine
   SF = service factor

   Select coupling from the catalog with a torque rating > Teq

5. Check shaft sizes and shaft gap to ensure they are within published selection ratings.

* Bushed hubs sold in North America have inch threads for bushing mounting. Taper-Lock bushings sold in North America have inch threads as standard and British standard Whitworth (BSW) mounting threads outside of North America.
† See back cover.

SERVICE FACTORS — MOTOR AND TURBINE DRIVEN EQUIPMENT①

Application	Service Factor
AGITATORS	
Pure Liquids	1.5
Variable density	2.0
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	2.0
CAR PULLERS	2.0
CLAY WORKING MACHINERY	2.0
COMPRESSORS	
Centrifugal	1.0
Lobe, Vane, Screws	
Reciprocating - Multi-Cylinder	1.5
Axial	1.0
CONVEYORS	
Uniformly loaded or fed	1.5
Heavy duty - not uniformly fed	3.0
CRANES AND HOISTS	2.0
CRUSHERS	3.0
DREDGES	
Cable Reels	2.0
Conveyors	2.0
Cutter Head Drives	3.0
Jig Drives	3.0
Maneuvering Winches	2.5
Pumps	2.0
Screen Drives	2.0
Stackers	2.0
Utility Winches	2.0
ELEVATORS	
Bucket	2.5
Centrifugal Discharge	2.5
Escalators	2.5
Freight	2.0
Gravity Discharge	2.5
EXTRUDERS	
Plastic	2.0
Metal	2.5
FANS	
Centrifugal	
Forced Draft	1.5
Induced Draft	1.5
Axial	
Forced Draft	1.5
Induced Draft	1.5
Mine Ventilation	2.0
Cooling Towers	2.0
Light Duty Blower & Fans	1.0

Application	Service Factor
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	1.0
Welding	3.0
HAMMER MILLS	2.5
LUMBER INDUSTRY	
Barkers - Drum Type	2.0
Edger Feed - Live Rolls	2.0
Log Haul - Incline	2.0
Log Haul - Well Type	2.0
Planer Feed 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 Machines Tools	
Main Drives	1.5
Auxiliary Drives	1.5
METAL MILLS	
Draw - Bench - Carriage	2.0
Draw - Bench - Main Drive	2.0
Forming Machines	2.5
Slitters	2.0
Table Conveyor	
Non-Reversing	3.0
Reversing	4.5
Wire Drawing & Flattening Machine	2.0
Wire Winding Machine	2.0
MILLS ROTARY TYPE	
Ball	3.0
Cement Kilns	2.5
Dryers & Coolers	2.0
Kilns	2.5
Pebble	2.0
Rod	3.0
Tumbling Barrels	2.0

Application	Service Factor
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	2.5
PAPER MILLS	
Barker Auxiliaries Hydraulic	2.0
Barker Mechanical	2.0
Barking Drum (Spur Gear Only)	3.0
Beater & Pulper	2.0
Bleacher	1.0
Calenders	2.0
Converting Machines except Cutters	1.5
Couch	2.0
Cutters	2.0
Cylinders	2.0
Dryers & Coolers	2.0
Felt Stretcher	1.5
Felt Whipper	2.0
Log Haul	2.5
Presses	2.5
Reel	2.0
Suction Roll	2.5
Washers and Thickeners	2.0
Winders	2.0
PRINTING PRESSES	1.5
BARGE HAUL	2.0
PUMPS	
Centrifugal	
General Duty (Liquid)	
Boiler Feed	1.0
Slurry (Sewage etc.)	1.5
Dredge	2.0
Reciprocating	
Double Acting	②
Single Acting	
1 or 2 Cylinders	②
3 or more Cylinders	②
Rotary - Gear, Lobe, Vane	1.5
RUBBER INDUSTRY	
Mixer - Banbury	3.0
Rubber Calendar	2.5
Rubber Mill (2 or more)	2.5
Sheeter	2.0
Tire Building Machines	2.5
Tire & Tube Press Openers	1.0
Strainers	2.0

Application	Service Factor
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	
Calenders	2.0
Card Machines	2.0
Cloth - Finishing Machines (washers, pads, tenters, dryers, calenders, etc.)	2.0
Dry Cans	2.0
Dryers	1.5
Dyeing Machinery	1.0
Looms	2.0
Mangles	1.5
Nappers	1.5
Soapers	1.5
Spinners	2.0
Tenter - Frames	2.0
Winders (other than Batchers)	2.0
WINDLASS	2.0
WOODWORKING MACHINERY	1.5

① The Service Factors listed are intended only as a general guide and for smooth power sources such as electric motors. For reciprocating prime movers, such as diesel or gas engines, add the following 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

If both driver and driven equipment are reciprocating, consult Regal Rexnord.
Add 0.5 to service factor if drive is a hydraulic motor.
Viva™ couplings are not recommended for turbine drives if the coupling cannot be protected from steam leakage or from speeds in excess of the coupling's published speed rating.

② Consult Regal Rexnord™ Engineering.

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 coupling mass-elastic data available from Regal Rexnord. This analysis is the responsibility of the user since the coupling is only a single component in the system.

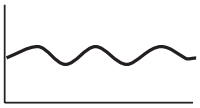
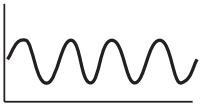
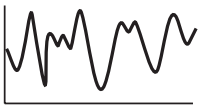
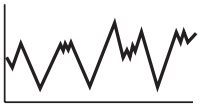
CAUTION: In the drive systems sensitive to axial movement (i.e. sleeve bearing equipment), it may be necessary to limit axial force and/or displacement. Consult Regal Rexnord for the proper installation procedure.

Temperature Adjustment

Ambient Temperature	Service Factor St
T° > 140° F	0.25
T° > 165° F	0.50
T° > 180° F	0.75
T° > 200° F	1.00

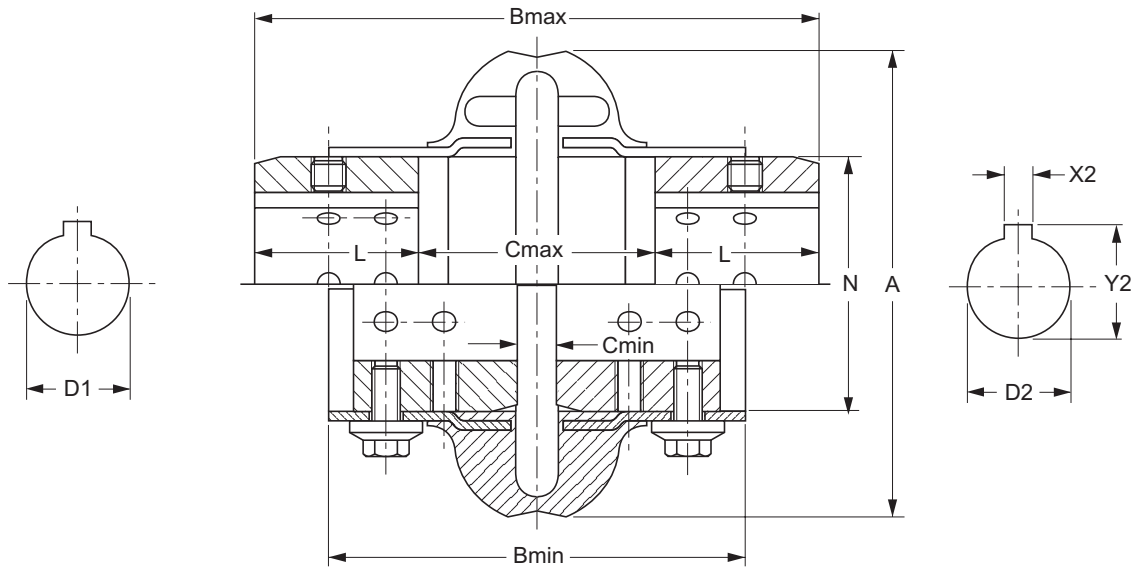
SERVICE FACTORS - LOAD CLASSIFICATION

Service Factors are a guide, based on experience, of the ratio between coupling catalog rating and system characteristics. The system characteristics are best measured with a torque meter.

Torque Demands	Load Classifications	Service Factors S_R
	Continous service and running loads vary only slightly.	1.0
	Torque loading varies during operation of equipment.	1.5
	Torques varies durning operation, frequent stop/start cycles are encountered.	2.0
	For shock loading and substantial torque variations.	2.5
	For heavy shock loading or light reversing drives.	3.0
	Reversing torque loads do not necessarly mean reversal of rotation. Depending on severity of torque reversal, such loads must be classified between “medium” and “extreme”.	Consult Factory

CLOSE COUPLED

TYPE V — Straight Bored Hubs



Dimensions (in)

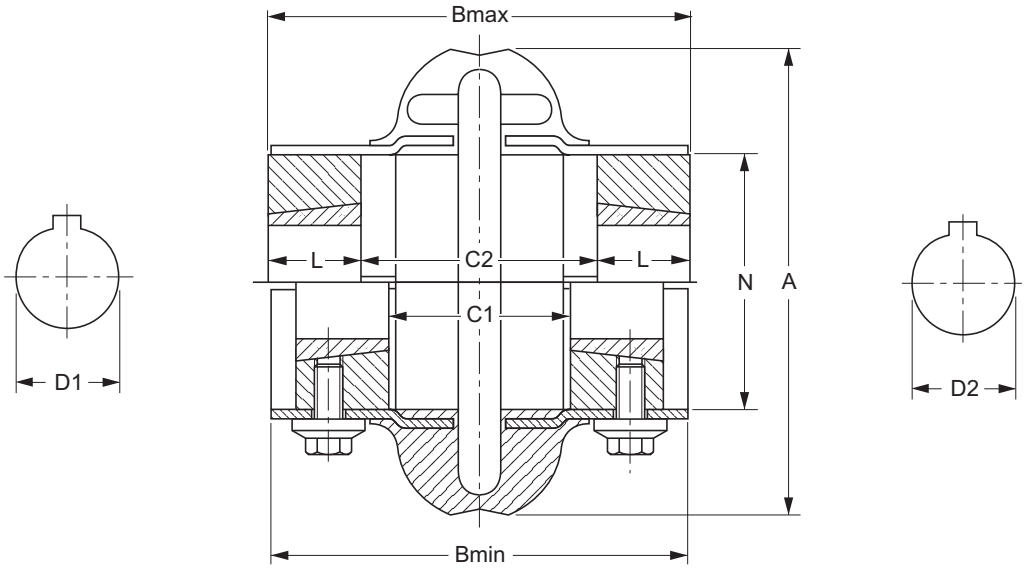
Coupling Size	Continuous Torque (in-lbs)	Max RPM	Bore Size - D1 & D2			A	Overall Length - B		Shaft Gap - C		L	N	Weight (lb) ②
			Min	Max ①	Max ① (mm)		Min	Max	Min	Max			
110	549	5,400	0.32	1.438	38	4.32	3.82	5.18	0.34	2.16	1.51	2.37	3.1
125	929	5,400	0.32	1.875	48	4.74	3.84	5.20	0.36	2.18	1.51	2.75	3.8
130	1,451	5,100	0.36	2.125	55	5.09	3.82	5.36	0.26	2.16	1.60	3.13	4.7
150	2,213	4,800	0.36	2.500	65	5.91	4.36	6.36	0.36	2.36	2.00	3.75	9.0
170	2,726	4,800	0.36	2.500	65	6.62	4.36	6.36	0.36	2.36	2.00	3.75	9.4
190	3,646	4,600	0.69	2.875	75	7.48	4.58	6.46	0.26	2.36	2.05	4.62	12.2
215	5,859	4,300	0.69	3.125	80	8.38	5.44	7.51	0.44	2.51	2.50	5.50	21.2
245	8,301	4,100	0.69	3.750	95	9.65	5.41	7.95	0.28	2.86	2.54	6.75	31.7
290	11,248	3,900	1.00	4.375	110	11.40	6.08	9.48	0.32	3.72	2.88	8.47	55
365	28,320	3,600	1.31	4.625	125	14.37	7.90	12.25	0.76	5.20	3.53	9.25	122
425	49,383	2,000	1.31	6.25	160	16.73	9.75	14.20	0.75	5.20	4.50	11.25	284
460	55,490	2,000	1.31	7.00	190	18.15	10.51	14.96	0.75	5.20	4.88	11.88	291

① Maximum bores for keyways as per AGMA 9002 (inch bores) and AGMA 9112 (metric bores).
② With maximum bores.

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

CLOSE COUPLED.

TYPE V — With Taper-Lock®† Hubs



Dimensions (in)

Coupling Size	Continuous Torque (in-lbs)	Max RPM	A	Overall Length - B		C1	C2	N	Bushing ③	Bore Size - D1 & D2			L	Weight (lb) ②
				Min	Max					Min	Max ①	Max ① (mm)		
110	549	5,400	4.32	3.82	3.90	1.60	2.17	2.37	1108	.50	1.13	26	0.88	2.6
125	929	5,400	4.74	3.86	3.94	1.62	2.17	2.75	1108	.50	1.13	26	0.88	3.7
130	1,451	5,100	5.09	3.82	4.17	1.36	2.17	3.13	1310	.50	1.44	35	1.00	4.8
150	2,213	4,800	5.91	4.37	4.61	2.12	2.60	3.75	1610	.50	1.69	42	1.00	6.8
170	2,726	4,800	6.62	4.37	4.61	2.12	2.60	3.75	1610	.50	1.69	42	1.00	7.2
190	3,646	4,600	7.48	4.57	4.84	1.86	2.36	4.34	2012	.50	2.13	50	1.25	12.6
215	5,859	4,300	8.38	5.28	5.91	2.02	2.40	5.50	2517	.50	2.69	65	1.75	22.4
245	8,301	4,100	9.65	5.39	6.22	1.96	2.24	6.75	3020	.88	3.25	80	2.00	33.4
290	11,248	3,900	11.40	6.02	7.40	1.58	3.43	8.47	3020	.88	3.25	80	2.50	56.9
365	28,320	3,600	14.37	7.87	12.24	0.79	5.16	9.25	3535	1.18	3.94	90	3.53	121
425	49,383	2,000	16.73	9.72	13.19	1.73	5.20	11.25	4040	1.44	4.44	100	4.00	215
460	55,490	2,000	18.15	10.51	14.21	1.50	5.20	11.88	4545	1.94	4.94	115	4.50	272

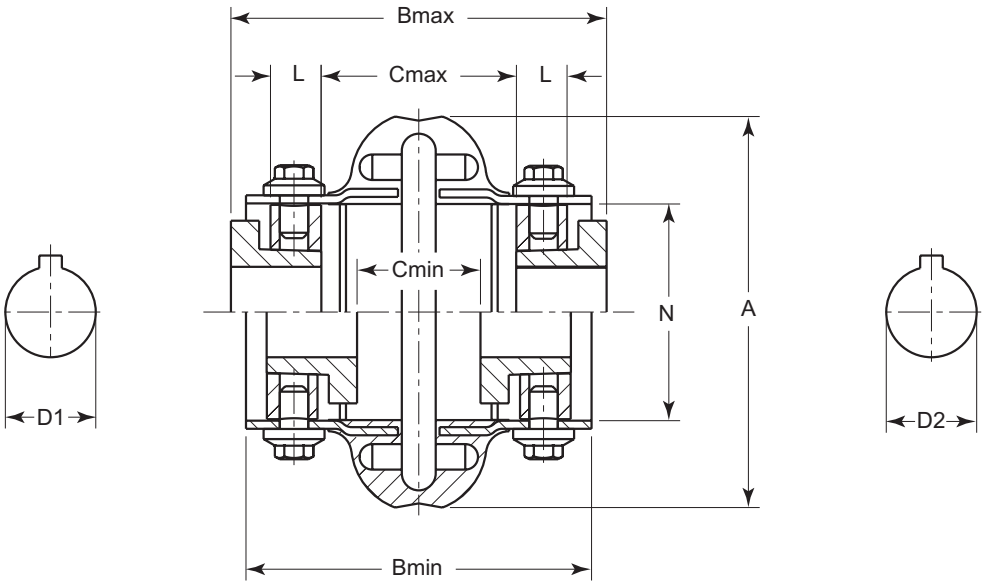
① Maximum bores for keyways as per AGMA 9002 (inch bores) and 9112 (metric bores), except larger bore capacity is with shallow keyway and steel bushings.
② Weight (lb) without compression bushings.
③ Review bushing rating with bushing manufacturer for adequate torque rating in application.

† See back cover.

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

CLOSE COUPLED

TYPE V — With Quick Disconnect (QD) Hubs



Dimensions (in)

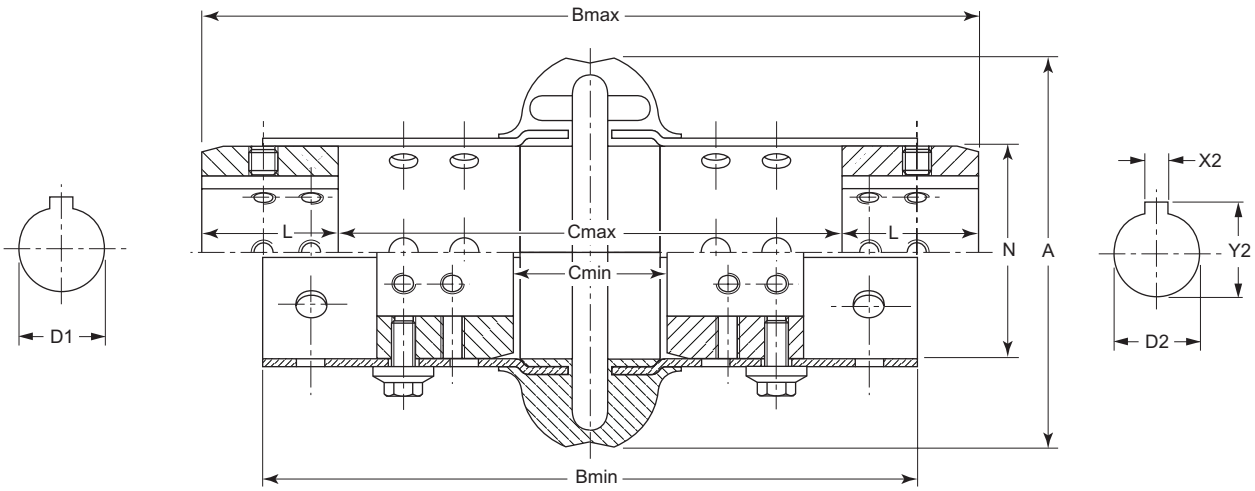
Coupling Size	Continuous Torque (in-lbs)	Max RPM	A	Overall Length - B		Shaft Gap - C		N	Bushing	Bore Size - D1 & D2			L	Weight (lb) ②
				Min	Max	Min	Max			Min	Max ①	Max ① (mm)		
110	549	5,400	4.32	3.82	4.16	1.36	2.16	2.37	JA	0.5000	1.25	30	1.00	2.2
125	929	5,400	4.74	3.84	4.18	1.38	2.18	2.75	JA	0.5000	1.25	30	1.00	2.9
130	1,451	5,100	5.09	3.82	4.78	0.74	2.16	3.13	SH	0.5000	1.63	35	1.31	3.9
150	2,213	4,800	5.91	4.36	5.98	0.74	2.36	3.75	SD	0.5000	1.94	43	1.81	7.8
170	2,726	4,800	6.62	4.36	5.98	0.74	2.36	3.75	SD	0.5000	1.94	43	1.81	8.1
190	3,646	4,600	7.48	4.58	6.24	0.48	2.36	4.34	SK	0.5000	2.50	58	1.94	12.0
215	5,859	4,300	8.38	5.26	6.54	1.40	2.41	5.50	SF	0.5000	2.81	63	2.06	18.6
245	8,301	4,100	9.65	5.40	7.74	0.46	2.24	6.75	E	0.857	3.50	89	2.75	28.5
290	11,248	3,900	11.40	6.04	8.42	0.58	1.20	8.47	F	1.000	3.94	101	3.61	57.9
365	28,320	3,600	14.37	11.47	14.16	2.02	5.20	9.25	J	1.500	4.44	114	4.48	108
425	49,383	2,000	16.73	14.70	18.66	0.74	5.20	11.25	M	2.000	5.50	139	6.73	212
460	55,490	2,000	18.15	15.09	18.66	1.12	5.20	11.88	M	2.000	5.50	139	6.73	273

① Maximum bores with shallow keyways and steel bushings.
② Weight (lb) without compression bushings.

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

SPACER COUPLED

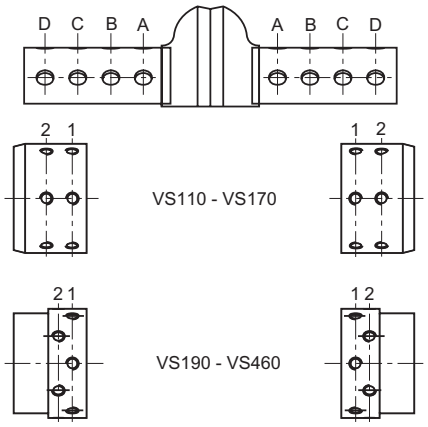
TYPE VS — Straight Bored



Dimensions (in)

Coupling Size	Continuous Torque (in-lbs)	Max RPM	Bore Size - D1 & D2			A	Overall Length - B		Shaft Gap - C		L	N	Weight (lb) ②
			Min	Max ①	Max ① (mm)		Min	Max	Min	Max			
110	549	4,300	0.32	1.438	38	4.32	7.18	8.54	1.69	5.52	1.51	2.37	3.7
125	929	4,300	0.32	1.875	48	4.74	7.50	8.86	2.13	5.84	1.51	2.75	4.6
130	1,451	4,200	0.36	2.125	55	5.09	7.18	8.72	1.30	5.52	1.60	3.13	5.6
150	2,213	4,000	0.36	2.500	65	5.91	9.26	11.04	2.01	7.04	2.00	3.75	11.0
170	2,726	4,000	0.36	2.500	65	6.62	9.26	11.04	2.01	7.04	2.00	3.75	11.2
190	13,646	3,900	0.69	2.875	75	7.48	9.26	11.14	1.89	7.04	2.05	4.62	14.6
215	5,859	3,800	0.69	3.125	80	8.38	9.90	12.14	1.97	7.14	2.50	5.50	24.5
245	8,301	3,700	0.69	3.750	95	9.65	10.21	12.74	1.57	7.66	2.54	6.75	37.0
290	11,248	3,600	1.00	4.375	110	11.40	12.42	15.06	3.15	10.10	2.88	8.47	63.3
365	28,320	2,600	1.31	4.625	125	14.37	12.56	16.93	2.64	9.84	3.53	9.25	131
425	49,383	1,800	1.31	6.25	160	16.73	12.56	17.87	2.13	9.84	4.50	11.25	250
460	55,490	1,800	1.31	7.00	190	18.15	12.56	18.89	2.64	9.84	4.88	11.88	303

① Maximum bores for keyways as per AGMA 9002 (inch bores) and AGMA 9112 (metric bores).
② With maximum bore.



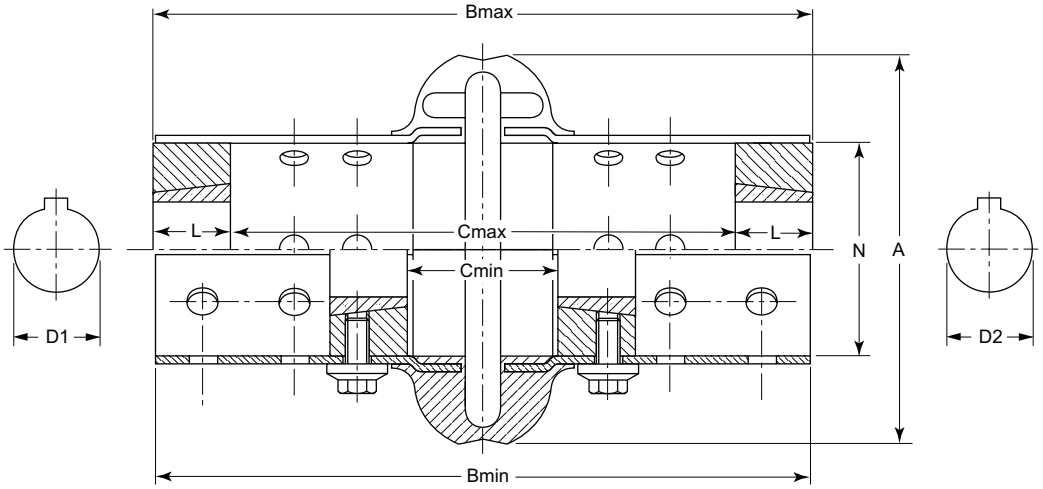
Size	ISO & Din (mm)				ANSI (Inch)		
	100	140	180	250	3-1/2	5	7
110	C2-B1	C1-C1	–	–	B1-B1	C2*-C1	–
125	B1-B1	C1-C2*	–	–	B2-B2	C2-C2*	–
130	B2*-C2*	C1-C1	–	–	B1-B1	C2*-C2*	–
150	B1-B1	C1-C1	D1-D1	–	B1*-D1*	D1-D2*	–
170	B1-B1	C1-C1	D2*-D2*	–	B1-D1*	D1*-D1*	D1-D2*
190	B1-B1	C1-C1	D1-D1	–	C1*-C1*	D1*-D1*	D1-D1
215	C1-C1	C1-C1	D1-D1	–	C1*-C1*	D1*-D1*	D1-D1
245	C2-C2	D1-C1*	D2-D1	–	B1*-D1*	B2-C1	D1-C1
290	B2*-B1*	B2*-B1*	C2*-B1	C2-C1	B2*-B1*	C2*-B1*	B2-B1
365	–	C1*-C1*	C1-C1	C1-C1	B1-B1*	B1-B1	C2-B2
425	–	C1*-C1*	C1-C2	C1-C1	B1-B2*	B1-B1	C2-B2
460	–	C1*-C1*	C2-C2	C1-C1	B1-B2*	B1-B1	C1-D2

* Hub mounted inboard.
Note: Element holes "A" are for mounting high speed rings.
Note: DBSE means distance between shaft ends.

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

SPACER VERSION

TYPE VS — With Taper-Lock®† Bushing



Dimensions (in)

Coupling Size	Continuous Torque (in-lbs)	Max RPM	A	Overall Length - B		Shaft Gap - C		N	Bushing ③	Bore Size - D1 & D2			L	Weight (lb) ②
				Min	Max	Min	Max			Min	Max ①	Max ① (mm)		
110	549	4,300	4.32	7.18	7.28	2.94	5.52	2.37	1108	.50	1.13	26	0.88	3.2
125	929	4,300	4.74	7.50	7.54	3.40	5.84	2.75	1108	.50	1.13	26	0.88	4.5
130	1,451	4,200	5.09	7.18	7.52	2.70	5.52	3.13	1310	.50	1.44	35	1.00	5.7
150	2,213	4,000	5.91	9.26	9.28	3.76	7.28	3.75	1610	.50	1.69	42	1.00	8.6
170	2,726	4,000	6.62	9.26	9.29	3.76	7.28	3.75	1610	.50	1.69	42	1.00	9.0
190	3,646	3,900	7.48	9.26	9.54	3.50	7.04	4.34	2012	.50	2.13	50	1.25	14.9
215	5,859	3,800	8.38	9.70	10.54	3.56	7.04	5.50	2517	.50	2.69	65	1.75	25.9
245	8,301	3,700	9.65	10.21	11.04	3.64	7.04	6.75	3020	.88	3.25	80	2.00	38.7
290	11,248	3,600	11.40	12.41	13.80	5.20	9.80	8.47	3020	.88	3.25	80	2.50	65.2
365	28,320	2,600	14.37	12.56	16.93	7.08	9.84	9.25	3535	1.18	3.94	90	3.53	130
425	49,383	1,800	16.73	12.56	17.87	7.08	9.84	11.25	4040	1.44	4.44	100	4.00	226
460	55,490	1,800	18.15	12.56	18.86	7.08	9.84	11.88	4545	1.94	4.94	115	4.50	284

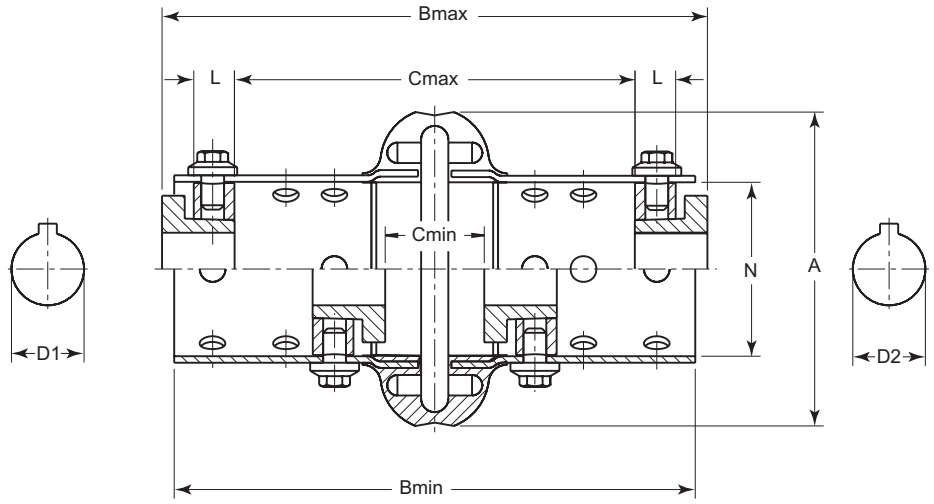
① Maximum bores with shallow keyway and steel bushings.
② Weight (lb) without compression bushings.
③ Review bushing rating with bushing manufacturer for adequate torque rating in application.

† See back cover.

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

SPACER COUPLED

TYPE VS — With Quick Disconnect (QD) Bushing



Dimensions (in)

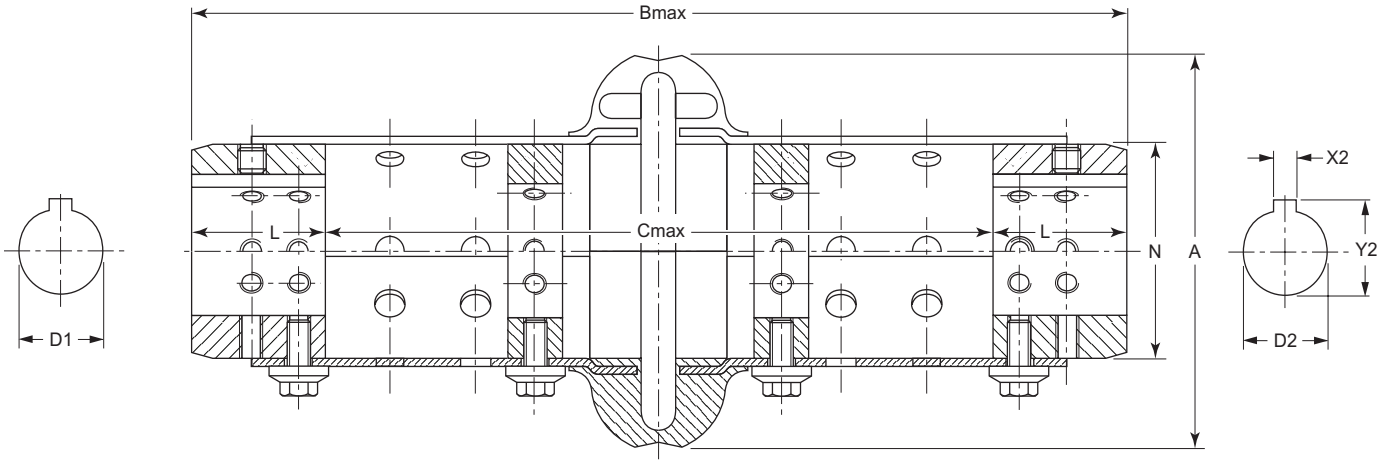
Coupling Size	Continuous Torque (in-lbs)	Max RPM	A	Overall Length - B		Shaft Gap - C		N	Bushing	Bore Size - D1 & D2			L	Weight (lb) ②
				Min	Max	Min	Max			Min	Max ①	Max ① (mm)		
110	549	4,300	4.32	7.18	7.52	2.70	5.52	2.37	JA	0.500	1.25	30	1.00	2.8
125	929	4,300	4.74	7.50	7.84	3.16	5.84	2.75	JA	0.500	1.25	30	1.00	3.7
130	1,451	4,200	5.09	7.18	8.15	2.08	5.52	3.13	SH	0.500	1.63	35	1.31	4.8
150	2,213	4,000	5.91	9.26	10.67	2.38	7.04	3.75	SD	0.500	1.94	43	1.81	9.4
170	2,726	4,000	6.62	9.26	10.67	2.38	7.04	3.75	SD	0.500	1.94	43	1.81	9.9
190	3,646	3,900	7.48	9.26	10.92	2.12	7.04	4.34	SK	0.500	2.50	58	1.94	14.4
215	5,859	3,800	8.38	9.90	11.17	2.94	7.04	5.50	SF	0.500	2.81	63	2.06	22.0
245	8,301	3,700	9.65	10.21	12.54	2.14	7.04	6.75	E	0.875	3.50	89	2.75	33.8
290	11,248	3,600	11.40	12.42	14.80	3.61	7.58	8.47	F	1.000	3.94	101	3.61	66.2
365	28,320	2,600	14.37	12.55	18.80	0.73	9.84	9.25	J	1.500	4.44	114	4.48	116
425	49,383	1,800	16.73	14.39	23.30	0.75	9.84	11.25	M	2.000	5.50	139	6.73	223
460	55,490	1,800	18.15	15.15	23.30	1.70	9.84	11.88	M	2.000	5.50	139	6.73	284

① Maximum bores with shallow keyways and steel bushings.
② Weight (lb) without compression bushings.

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

EXTENTED SPACER COUPLED

TYPE VSX — Straight Bored



Dimensions (in)

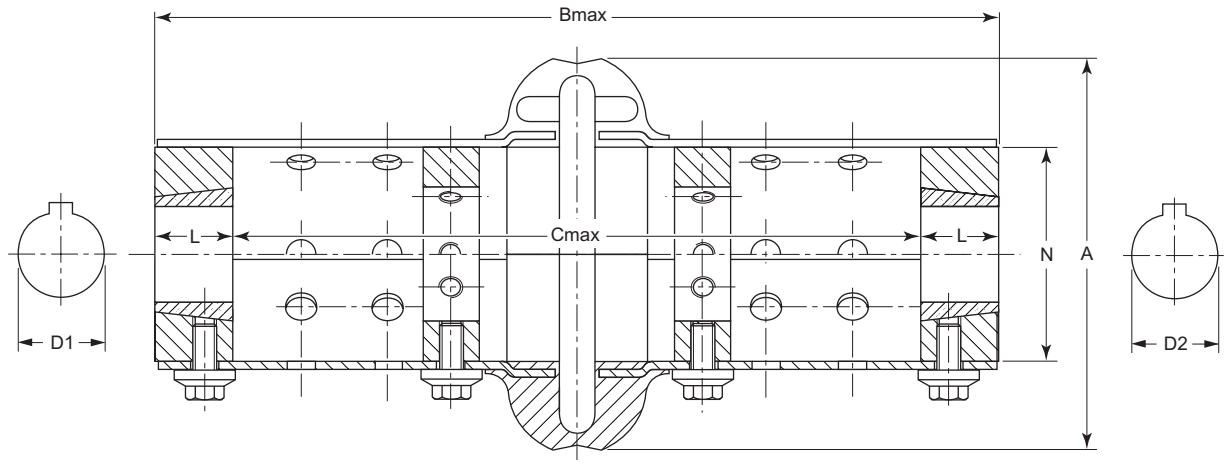
Coupling Size	Continuous Torque (in-lbs)	Max RPM	Bore Size - D1 & D2			A	Overall Length - B		Shaft Gap - C		L	N	Weight (lb) ②
			Min	Max ①	Max ① (mm)		Min	Max	Min	Max			
110	549	4,300	0.32	1.438	38	4.32	8.70	10.06	3.70	7.04	1.51	2.37	3.9
125	929	4,300	0.32	1.875	48	4.74	8.66	10.06	3.70	7.04	1.51	2.75	4.9
130	1,451	4,200	0.36	2.125	55	5.09	8.70	10.24	3.52	7.04	1.60	3.13	6.0
150	2,213	4,000	0.36	2.500	65	5.91	12.06	13.85	5.04	9.85	2.00	3.75	12.0
170	2,726	4,000	0.36	2.500	65	6.62	12.06	13.85	5.04	9.85	2.00	3.75	12.7
190	3,646	3,900	0.69	2.875	75	7.48	12.07	13.70	5.19	9.85	2.05	4.34	16.2
215	5,859	3,800	0.69	3.125	80	8.38	12.60	14.84	5.00	9.85	2.50	5.50	26.8
245	8,301	3,700	0.69	3.750	95	9.65	13.01	15.80	4.16	10.50	2.54	6.75	40.2
290	11,248	3,600	1.00	4.375	110	11.40	14.43	17.87	5.94	11.82	2.88	8.47	66.9
365	28,320	2,600	1.31	7.00	125	14.37	14.52	18.87	2.64	11.82	3.53	9.25	143.2
425	49,383	1,800	1.31	6.25	160	16.73	14.52	20.81	2.13	11.82	4.50	11.25	264.9
460	55,490	1,800	1.31	4.625	190	18.15	14.52	21.57	2.64	11.82	4.88	11.88	318.5

① Maximum bores for keyways as per AGMA 9002 (inch bores) and 9112 (metric bores).
② With maximum bore.
NOTE: High speed rings are required with VSX coupling style and provided as standard.

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

EXTENTED SPACER COUPLED

TYPE VSX — With Taper-Lock®† Bushing



Dimensions (in)

Coupling Size	Continuous Torque (in-lbs)	Max RPM	A	Overall Length - B		Shaft Gap - C		N	Bushing ③	Bore Size - D1 & D2			L	Weight (lb) ②
				Min	Max	Min	Max			Min	Max ①	Max ① (mm)		
110	549	4,300	4.32	8.80	8.80	3.70	7.04	2.37	1108	.50	1.13	26	0.88	3.5
125	929	4,300	4.74	8.80	8.80	4.96	7.04	2.75	1108	.50	1.13	26	0.88	4.8
130	1,451	4,200	5.09	9.04	9.04	4.72	7.04	3.13	1310	.50	1.44	35	1.00	6.1
150	2,213	4,000	5.91	12.08	12.08	3.78	9.85	3.75	1610	.50	1.69	42	1.00	10.0
170	2,726	4,000	6.62	12.08	12.08	3.78	9.85	3.75	1610	.50	1.69	42	1.00	10.6
190	3,646	3,900	7.48	12.08	12.35	6.54	9.85	4.34	2012	.50	2.13	50	1.25	16.6
215	5,859	3,800	8.38	12.60	13.24	6.56	9.85	5.50	2517	.50	2.69	65	1.75	28.2
245	8,301	3,700	9.65	13.01	13.84	6.10	9.85	6.75	3020	.88	3.25	80	2.00	41.0
290	11,248	3,600	11.40	14.43	15.81	7.96	11.82	8.47	3020	.88	3.25	80	2.50	68.8
365	28,320	2,600	14.37	14.53	18.87	–	11.82	9.25	3535	1.18	3.94	90	3.53	142
425	49,383	1,800	16.73	14.53	19.84	–	11.82	11.25	4040	1.44	4.44	100	4.00	241
460	55,490	1,800	18.15	14.53	20.83	–	11.82	11.88	4545	1.94	4.94	115	4.50	300

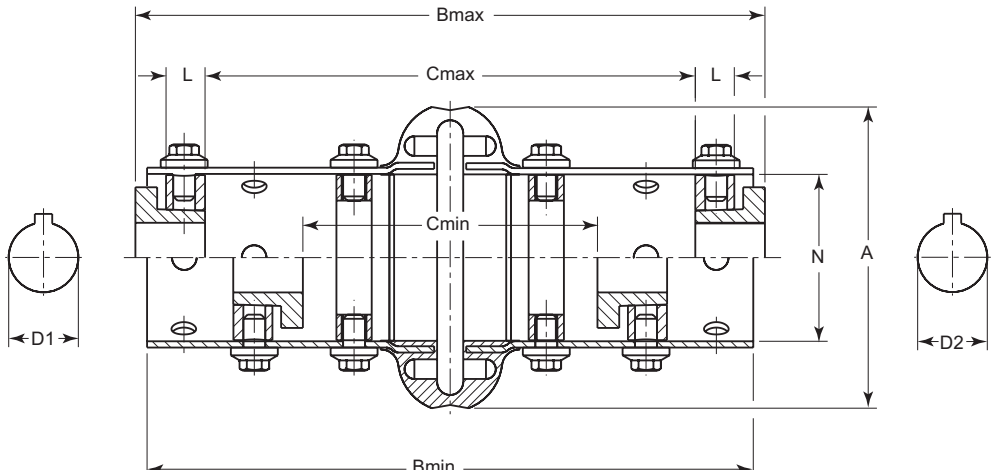
① Maximum bores for keyways as per ISO R773.
② Weight (lb) without compression bushings.
③ Review bushing rating with bushing manufacturer for adequate torque rating in application.

† See back cover.

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

EXTENTED SPACER COUPLED

TYPE VSX — With Quick Disconnect (QD) Bushing



Dimensions (in)

Coupling Size	Continuous Torque (in-lbs)	Max RPM ②	A	Overall Length - B		Shaft Gap - C		N	Bushing ③	Bore Size - D1 & D2			L	Weight (lb) ②
				Min	Max	Min	Max			Min	Max ①	Max ① (mm)		
110	549	4,300	4.32	8.70	9.04	4.72	7.04	2.37	JA	0.500	1.25	30	1.00	3.0
125	929	4,300	4.74	8.66	9.04	4.72	7.04	2.75	JA	0.500	1.25	30	1.00	4.1
130	1,451	4,200	5.09	8.70	9.67	4.10	7.04	3.13	SH	0.500	1.63	35	1.31	5.2
150	2,213	4,000	5.91	12.06	13.47	5.42	9.84	3.75	SD	0.500	1.94	43	1.81	10.9
170	2,726	4,000	6.62	12.06	13.47	5.42	9.84	3.75	SD	0.500	1.94	43	1.81	11.4
190	3,646	3,900	7.48	12.07	13.73	5.16	9.85	4.34	SK	0.500	2.50	58	1.94	16.0
215	5,859	3,800	8.38	12.60	13.87	5.94	11.17	5.50	SF	0.500	2.81	63	2.06	24.3
245	8,301	3,700	9.65	13.01	15.34	4.60	9.84	6.75	E	0.875	3.50	89	2.75	37.1
290	11,248	3,600	11.40	14.43	16.81	6.96	9.59	8.47	F	1.000	3.94	101	3.61	69.8
365	28,320	2,600	14.37	14.52	20.77	0.76	11.81	9.25	J	1.500	4.44	114	4.48	129
425	49,383	1,800	16.73	14.52	25.27	0.93	11.81	11.25	M	2.000	5.50	139	6.73	238
460	55,490	1,800	18.15	14.52	25.27	1.56	11.81	11.88	M	2.000	5.50	139	6.73	300

① Maximum bores with shallow keyways and steel bushings.
② Weight (lb) without compression bushings.
③ Review bushing rating with bushing manufacturer for adequate torque rating in application.

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

ENGINEERING DATA

Table 1 — Recommended Bores for Steel Hubs (in)

Shaft Dia	Clearance Fit ①		Interference Fit	
	Hub Bore	Clearance	Hub Bore	Interference
+.0000	**+.0010**	**.0000**	**+.0005**	**.0000**
-.0005	**-.0000**	**.0015**	**-.0000**	**.0010**
.5000	.5000		.4990	
.5625	.5625		.5615	
.6250	.6250		.6240	
.6875	.6875		.6865	
.7500	.7500		.7490	
.8125	.8125		.8115	
.8750	.8750		.8740	
.9375	.9375		.9365	
1.0000	1.0000		.9990	
1.0625	1.0625		1.0615	
1.1250	1.1250		1.1240	
1.1875	1.1875		1.1865	
1.2500	1.2500		1.2490	
1.3125	1.3125		1.3115	
1.3750	1.3750		1.3740	
1.4375	1.4375		1.4365	
1.5000	1.5000		1.4990	
+.0000	**+.0010**	**.0000**	**+.0005**	**.0000**
-.0010	**-.0000**	**.0020**	**-.0000**	**.0015**
1.5625	1.5625		1.5610	
1.6250	1.6250		1.6235	
1.6875	1.6875		1.6860	
1.7500	1.7500		1.7485	
1.8125	1.8125		1.8110	
1.8750	1.8750		1.8735	
1.9375	1.9375		1.9360	
2.0000	2.0000		1.9985	
+.0000	**+.0015**	**.0000**	**+.0005**	**.0000**
-.0010	**-.0000**	**.0025**	**-.0000**	**.0015**
2.0625	2.0625		2.0610	
2.1250	2.1250		2.1235	
2.1875	2.1875		2.1860	

Shaft Dia	Clearance Fit ①		Interference Fit	
	Hub Bore	Clearance	Hub Bore	Interference
+.0000	**+.0015**	**.0000**	**+.0010**	**.0000**
-.0010	**-.0000**	**.0025**	**-.0000**	**.0020**
2.2500	2.2500		2.2480	
2.3125	2.3125		2.3105	
2.3750	2.3750		2.3730	
2.4375	2.4375		2.4355	
2.5000	2.5000		2.4980	
2.5625	2.5625		2.5605	
2.6250	2.6250		2.6230	
2.6875	2.6875		2.6855	
2.7500	2.7500		2.7480	
2.8125	2.8125		2.8105	
2.8750	2.8750		2.8730	
2.9375	2.9375		2.9355	
3.0000	3.0000		2.9980	
+.0000	**+.0015**	**.0000**	**+.0010**	**.0005**
-.0010	**-.0000**	**.0025**	**-.0000**	**.0025**
3.0625	3.0625		3.0600	
3.1250	3.1250		3.1225	
3.1875	3.1875		3.1850	
3.2500	3.2500		3.2475	
3.3125	3.3125		3.3100	
3.3750	3.3750		3.3725	
3.4375	3.4375		3.4350	
3.5000	3.5000		3.4975	
3.5625	3.5625		3.5600	
3.6250	3.6250		3.6225	
3.6875	3.6875		3.6850	
3.7500	3.7500		3.7475	
3.8125	3.8125		3.8100	
3.8750	3.8750		3.8725	
3.9375	3.9375		3.9350	
4.0000	4.0000		3.9975	

Shaft Dia	Clearance Fit ①		Interference Fit	
	Hub Bore	Clearance	Hub Bore	Interference
+.0000	**+.0015**	**.0000**	**+.0015**	**.0010**
-.0010	**-.0000**	**.0025**	**-.0000**	**.0035**
4.0625	4.0625		4.0590	
4.1250	4.1250		4.1215	
4.1875	4.1875		4.1840	
4.2500	4.2500		4.2465	
4.3125	4.3125		4.3090	
4.3750	4.3750		4.3715	
4.4375	4.4375		4.4340	
4.5000	4.5000		4.4965	
4.5625	4.5625		4.5590	
4.6250	4.6250		4.6215	
4.6875	4.6875		4.6840	
4.7500	4.7500		4.7465	
4.8125	4.8125		4.8090	
4.8750	4.8750		4.8715	
4.9375	4.9375		4.9340	
5.0000	5.0000		4.9965	
5.0625	5.0625		5.0585	**.0015**
5.1250	5.1250		5.1210	**.0040**
5.1875	5.1875		5.1835	
5.2500	5.2500		5.2460	
5.3125	5.3125		5.3085	
5.3750	5.3750		5.3710	
5.4375	5.4375		5.4335	
5.5000	5.5000		5.4960	
5.5625	5.5625		5.5585	
5.6250	5.6250		5.6210	
5.6875	5.6875		5.6835	
5.7500	5.7500		5.7460	
5.8125	5.8125		5.8085	
5.8750	5.8750		5.8710	
5.9375	5.9375		5.9335	
6.0000	6.0000		5.9960	
6.2500	6.2500		6.2460	
6.5000	6.5000		6.4960	

Shaft Dia	Interference Fit	
	Hub Bore	Interference
+.0000	**+.0015**	**.0015**
-.0010	**-.0000**	**.0040**
6.7500	6.7460	
7.0000	6.9960	

① Viva™ rebored hubs provided with AGMA 9002 Class 1 clearance fit unless otherwise specified.

Table 2 — Recommended Keyways for Hubs with One Keyway (in)

Nominal Bore		Keyway Size ③	Width Tolerance ④
		Width x Depth	
.4375	.5625	.125 x .062	+.0020 -.0000
.5625	.8750	.1875 x .094	+.0020 -.0000
.8750	1.250	.250 x .125	+.0020 -.0000
1.250	1.375	.3125 x .156	+.0020 -.0000
1.375	1.750	.375 x .188	+.0025 -.0000
1.750	2.250	.500 x .250	+.0025 -.0000
2.250	2.750	.625 x .312	+.0030 -.0000
2.750	3.250	.750 x .375	+.0030 -.0000
3.250	3.750	.875 x .438	+.0030 -.0000
3.750	4.500	1.000 x .500	+.0030 -.0000
4.500	5.500	1.250 x .625	+.0035 -.0000
5.500	6.500	1.500 x .750	+.0035 -.0000
6.500	7.500	1.750 x .750	+.0040 -.0000
7.500	9.000	2.000 x .750	+.0040 -.0000
9.000	11.000	2.500 x .875	+.0045 -.0000
11.000	13.000	3.000 x 1.000	+.0045 -.0000
13.000	15.000	3.500 x 1.250	+.0050 -.0000
15.000	18.000	4.000 x 1.500	+.0050 -.0000

③ One square key for bore diameters thru 6.500";
one rectangular key for bore diameters over 6.500".

④ Depth tolerance: +.010" to +.020".

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

Table 3 — AGMA 9112 - Bore Tolerances Steel Coupling Hubs (mm) ②

Shaft Diameter (ISO/R775-1969)		Bore Diameter Tolerance		
Nominal	Tolerance	Clearance	Transitional	Interference
6 to 30	**j6 / k6 ①**	F7	H7	M6
Over 30 to 50	**k6**	F7	H7	K6
Over 50 to 80	**m6**	F7	H7	K7
Over 80 to 100	**m6**	F7	H7	M7
Over 100 to 200	**m6**	F7	H7	P7
Over 200 to 355	**m6**	F7	H7	R7
Over 355 to 500	**m6**	F7	H7	R8

① Per DIN 748 — Differs from ISO/R775.
② Other ISO bore tolerances available (H7, H8, F7, F8, G7, E7, Js7, Js8, etc.).

Table 4 — AGMA 9112 - Hub Keyway Dimensions (mm)

Cylindrical Shaft Diameter, d		Nominal Key Size b x h	Hub Keyway						
			Width, b			Depth, t2		Radius, r ④	
Over	To (incl.)		Nominal	Normal Keyway Width Tolerance (Js9) ③	Close Keyway Width Tolerance (P9)	Nominal	Tolerance	Maximum	Minimum
10	**12**	4 x 4	4	+0.0150 / -0.0150	-0.012 / -0.042	1.8	+0.10/-0.00	0.16	0.08
12	**17**	5 x 5	5			2.3		0.25	0.16
17	**22**	6 x 6	6			2.8			
22	**30**	8 x 7	8	+0.0180 / -0.0180	-0.015 / -0.051	3.3	+0.20/-0.00 ②		
30	**38**	10 x 8	10			3.3		0.40	0.25
38	**44**	12 x 8	12	+0.0215 / -0.0215	-0.018 / -0.061	3.3			
44	**50**	14 x 9	14			3.8			
50	**58**	16 x 10	16			4.3			
58	**65**	18 x 11	18			4.4			
65	**75**	20 x 12	20	+0.0260 / -0.0260	-0.022 / -0.074	4.9		0.60	0.40
75	**85**	22 x 14	22			5.4			
85	**95**	25 x 14	25			5.4			
95	**110**	28 x 16	28			6.4			
110	**130**	32 x 18	32	+0.0310 / -0.0310	-0.026 / -0.088	7.4			
130	**150**	36 x 20	36			8.4	+0.30/-0.00	1.00	0.70
150	**170**	40 x 22	40			9.4			
170	**200**	45 x 25	45			10.4			
200	**230**	50 x 28	50			11.4			
230	**260**	56 x 32	56	+0.0370 / -0.0370	-0.032 / -0.106	12.4		1.60	1.20
260	**290**	63 x 32	63			12.4			
290	**330**	70 x 36	70			14.4			
330	**380**	80 x 40	80			15.4		2.50	2.00
380	**440**	90 x 45	90	+0.0435 / -0.0435	-0.037 / -0.124	17.4			
440	**500**	100 x 50	100			19.5			

② Other ISO keyway width tolerances available upon request (H9, D9, etc.).
② Viva™ hubs provided with Js9 keyway width tolerance unless otherwise specified.
③ Viva hubs do not have "Radius, r" in keyway unless otherwise specified.

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

Table 5 — Recommended Bores for Metric Shafts per ISO/R775-1969 (mm)

Nominal Shaft Diameter	Shaft Diameter	Clearance Fit		Transitional Fit ①		Interference Fit	
		Hub Bore	Fit ②	Hub Bore	Fit ②	Hub Bore	Fit ②
mm	**j6 + 0.008 / – 0.003**	**F7 + 0.016 / + 0.034**	**+ 0.008 + 0.037**	**H7 + 0.000 / + 0.018**	**– 0.008 + 0.021**	**M6 – 0.015 / - 0.004**	**– 0.023 – 0.001**
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	
mm	**j6 + 0.009 / – 0.004**	**F7 + 0.020 / + 0.041**	**+ 0.011 + 0.045**	**H7 + 0.000 / + 0.021**	**– 0.009 + 0.025**	**M6 – 0.017 / – 0.004**	**– 0.026 + 0.000**
19	19.009 / 18.996	19.020 / 19.041		19.000 / 19.021		18.983 / 18.996	
20	20.009 / 19.996	20.020 / 20.041		20.000 / 20.021		19.983 / 19.996	
22	22.009 / 21.996	22.020 / 22.041		22.000 / 22.021		21.983 / 21.996	
24	24.009 / 23.996	24.020 / 24.041		24.000 / 24.021		23.983 / 23.996	
25	25.009 / 24.996	25.020 / 25.041		25.000 / 25.021		24.983 / 24.996	
28	28.009 / 27.996	28.020 / 28.041		28.000 / 28.021		27.983 / 27.996	
30	30.009 / 29.996	30.020 / 30.041		30.000 / 30.021		29.983 / 29.996	
>30 mm	**k6 + 0.018 / + 0.002**	**F7 + 0.025 / + 0.050**	**+ 0.007 + 0.048**	**H7 + 0.000 / + 0.025**	**– 0.018 + 0.023**	**K6 – 0.013 / + 0.003**	**– 0.031 + 0.001**
32	32.018 / 32.000	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 mm	**m6 + 0.030 / + 0.011**	**F7 + 0.030 / + 0.060**	**+ 0.000 + 0.049**	**H7 + 0.000 / + 0.030**	**– 0.030 + 0.019**	**K7 – 0.021 / + 0.009**	**– 0.051 – 0.002**
55	55.030 / 55.011	55.030 / 55.060		55.000 / 55.030		54.979 / 55.009	
56	56.030 / 56.011	56.030 / 56.060		56.000 / 56.030		55.979 / 56.009	
60	60.030 / 60.011	60.030 / 60.060		60.000 / 60.030		59.979 / 60.009	
63	63.030 / 63.011	63.030 / 63.060		63.000 / 63.030		62.979 / 63.009	
65	65.030 / 65.011	65.030 / 65.060		65.000 / 65.030		64.979 / 65.009	
70	70.030 / 70.011	70.030 / 70.060		70.000 / 70.030		69.979 / 70.009	
71	71.030 / 71.011	71.030 / 71.060		71.000 / 71.030		70.979 / 71.009	
75	75.030 / 75.011	75.030 / 75.060		75.000 / 75.030		74.979 / 75.009	
80	80.030 / 80.011	80.030 / 80.060		80.000 / 80.030		79.979 / 80.009	
> 80 mm	**m6 + 0.035 / + 0.013**	**F7 + 0.036 / + 0.071**	**+ 0.001 + 0.058**	**H7 + 0.000 / + 0.035**	**– 0.035 + 0.022**	**M7 – 0.035 / + 0.000**	**– 0.070 – 0.013**
85	85.035 / 85.013	85.036 / 85.074		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 / 95.000	
100	100.035 / 100.013	100.036 / 100.071		100.000 / 100.035		99.965 / 100.000	
> 100 mm	**m6 + 0.035 / + 0.013**	**F7 + 0.036 / + 0.071**		**H7 + 0.000 / + 0.035**		**P7 – 0.059 / – 0.024**	**– 0.097 – 0.037**
110	110.035 / 110.013	110.036 / 110.071		110.000 / 110.035		109.941 / 109.976	
120	120.035 / 120.013	120.036 / 120.071		120.000 / 120.035		119.941 / 119.976	
> 120 mm	**m6 + 0.040 / + 0.015**	**F7 + 0.043 / + 0.083**	**+ 0.003 + 0.068**	**H7 + 0.000 / + 0.040**	**– 0.040 + 0.025**	**P7 – 0.068 / – 0.028**	**– 0.108 – 0.043**
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 mm	**m6 + 0.046 / + 0.017**	**F7 + 0.050 / + 0.096**	**+ 0.004 + 0.079**	**H7 + 0.000 / + 0.046**	**– 0.046 + 0.029**	**P7 – 0.079 / – 0.033**	**– 0.125 – 0.050**

① Positive values are clearance. Negative values are interference.

② Viva™ rebored hubs provided with AGMA 9112 H7 transitional fit unless otherwise specified.

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

ENGINEERING DATA *Cont.*

Table 6 — Shaft Diameters & Ratings for NEMA 60 Hertz & 50 Hertz Metric Motors

NEMA 60 HERTZ MOTORS (HP)

Frame Size		T Frames																		TS Frames									
		143	145	182	184	213	215	254	256	284	286	324	326	364	365	404	405	444	445	284	286	324	326	364	365	404	405	444	445
Shaft Dia — Inches		0.88	0.88	1.13	1.13	1.38	1.38	1.63	1.63	1.88	1.88	2.13	2.13	2.38	2.38	2.88	2.88	3.38	3.38	1.63	1.63	1.88	1.88	1.88	1.88	2.13	2.13	2.38	2.38
3600 RPM	Drip Proof	1 1/2	2-3	5	7 1/2	10	15	20	25	30	40	50	60	75	100	125	150	200	250	30	40	50	60	75	100	125	150	200	250
	Enclosed	1 1/2	2	3	5	7 1/2	10	15	20	25	30	40	50	60	75	. . .	100	125	150	25	30	40	50	60	75	. . .	100	125	150
1800 RPM	Drip Proof	1	1 1/2-2	3	5	7 1/2	10	15	20	25	30	40	50	60	75	100	125	150	200	25	30	40	50	60	75	100	125	150	200
	Enclosed	1	1 1/2-2	3	5	7 1/2	10	15	20	25	30	40	50	60	75	. . .	100	125	150	25	30	40	50	60	75	. . .	100	125	150
1200 RPM	Drip Proof & Enclosed	3/4	1	1 1/2	2	3	5	7 1/2	10	15	20	25	30	40	50	60	75	100	125	15	20	25	30	40	50	60	75	100	125
900 RPM	Drip Proof & Enclosed	1/2	3/4	1	1 1/2	2	3	5	7 1/2	10	15	20	25	30	40	50	60	75	100	10	15	20	25	30	40	50	60	75	100

50 HERTZ METRIC MOTORS (kW)

Frame Size	80	90S	90L	100L	112M	132S	132M	160M	160L	180M	180L	200M/L	225S	225M	250S	250M	280S	280M
Shaft Dia — mm	19	24	24	28	28	38	38	42	42	48	48	55	45	45	55	55	75	90
3000 RPM	0,75 1,10	1,5	2,2	3,0	4	5,5 7,5	…	11 15	18,5	22	…	30 37	…	…	…	75	90	110
1500 RPM	0,55 0,75	1,1	1,5	2,2 3,0	4	5,5	7,5	11	15	18,5	22	30	37 45	45	55	55 75	75 90	90 110
1000 RPM	0,37 0,55	0,75	1,1	1,5	2,2	3	45,5	7,5	11	…	15	18,5 22	30	30	37	37 45	45 50	55 75
750 RPM	0,18 0,25	0,37	0,55	0,75 1,1	1,5	2,2	3	45,5	7,5	…	11	15	18,5	22	30	30 37	37 45	45 55

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

COUPLING APPLICATION DATA SHEET

Company _____ Phone _____

Address _____ Fax _____

_____ E-Mail _____

Date _____ Response Req'd By _____

Submitted By _____

COUPLING DESIGN:

Disc ❑ Grid ❑ Gear ❑ Elastomer ❑

Horizontally Mounted ❑ Vertically Mounted ❑

COUPLING TYPE:

Close-Coupled ❑ Spacer ❑ Other _____

SECTION I — PRIME MOVER:

Type: Electric Motor ❑

Rating (hp, kW) _____

Engine ❑ (No. of Cyl.)

Diesel ❑ Gasoline ❑ Gas ❑

Base Speed (rpm) _____

Turbine ❑

Steam ❑ Air ❑ Gas ❑

Maximum Speed (rpm) _____

SECTION II — APPLICATION DATA:

Description _____

_____

Duty Cycle: Continuous ❑ Intermittent ❑

Load Characteristics:

Unidirectional ❑ Reversing ❑

Smooth ❑ Light Shock ❑ Heavy Shock ❑

Little Vibration ❑ Medium Vibration ❑ Heavy Vibration ❑

Environmental Concerns (Temperature, Moisture, Dust, Corrosive Materials) _____

_____

SECTION III — COUPLING SELECTION DATA

hp/bhp/kW _____ Torque _____

Coupling Speed _____ rpm

Distance Between Shaft Ends or Shaft Gap

Driver Shaft Diameter _____ Key _____

Fit: Clearance ❑ Interference ❑ Other _____

Driven Shaft Diameter _____ Key _____

Fit: Clearance ❑ Interference ❑ Other _____

Specifications Applicable:

API-610 ❑ API-671 ❑ Others _____

Service Factor:

AGMA Recommended ❑ Other _____

Competitive Data:

Make _____

Size & Type _____

Bores _____ & _____

Price _____

Additional Comments: _____

_____

_____

_____

Design Requirements: Balance Class _____

Weight _____ WR^2 _____

Stiffness _____

Misalignment:

Angular _____ Offset _____

Axial _____

SKETCH AREA

Submit completed form to: PTcustomercare@regalrexnord.com

NOTES

NOTES

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