



Falk Wrapflex Elastomeric Couplings (Metric)

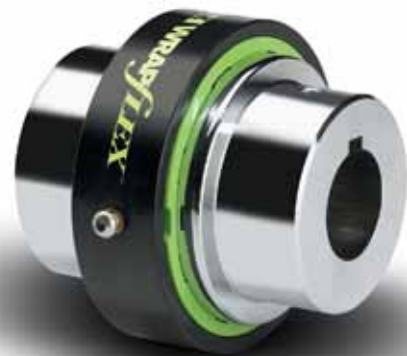


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Falk Wrapflex Elastomeric Couplings

A Simple Way to Increase Productivity

- 9 sizes
- Torque range: 15,027 Nm (133,000 lb-in)
- Bore capacity: 190 mm (7.25")
- "Replace in place"
- Non-lubricated/low maintenance

Quick, easy installation and replacement set new standards for reduced downtime. Because motors or drives don't need to be moved, our "replace in place" elements even eliminate the need for time-consuming realignment.

Available in close-coupled and spacer designs, Wrapflex couplings accommodate up to 190 mm (7.25") shafts and torque loads up to 15,027 Nm (133,000 lb-in).

For simplicity and cost-effectiveness over the life of your coupling, it doesn't get any easier than Wrapflex couplings from Rexnord.

Low Initial Cost

- Advanced manufacturing methods and innovative material allow us to offer higher capacity ratings at a more competitive price than ever before possible.

Easy to Install

- The compound root radius in the element teeth (patent #6,342,011) increases flexibility for easier and quicker assembly.
- The coupling can be blind assembled from either direction.



Replace in Place

- Design allows quick and easy element replacement.
- There's no need to remove hubs or realign motors or drives, so downtime is reduced.

No Maintenance Needed

- Non-lubricated design of the tough, flexible polyurethane element lowers periodic maintenance costs.

Protects Equipment

- Compound root radius on inner corners of flex element (patent #6,342,011) acts as a stress relief for longer element life.
- Special hub feature reduces reaction loads transferred to connected equipment (patent #6,648,763).

Tough, Long-Lasting

- Polyurethane element has excellent wear and chemical resistance, and an operating temperature of -40°C (-40°F) to 95°C (200°F).
- Weather-resistant, high-grade nylon cover is standard.
- Optional carbon steel covers with black epoxy coating are suitable for highly-corrosive, severe-duty applications. (Standard for sizes 60-80.)
- Optional stainless steel hubs are available for Type R10 when required in the food industry or corrosive environments. Contact Rexnord for Stainless Steel Cover availability.

Safety First

- Two stainless steel button head cap screws, positioned 180° apart, prevent relative motion between cover and element and provide a positive means of retaining the cover to the element.
- Flexible element is retained after failure, helping minimize the potential for damage or personal injury.

Quick and Easy Retrofits

- Compact design eliminates the need for coupling guard redesign on existing applications.
- Stock finished bores in popular sizes. Taper bores for QD and Taper-Lock bushings are available off-the-shelf from our worldwide distribution network.

Falk Wrapflex Coupling Selection

Wrapflex Quick Selection Method

- Determine Service Factor — Refer to **Table 1** or **4** for motor or turbine driven applications. See **Table 5** for engine drives.
- Determine Equivalent Power: Refer to **Table 2** — Under the actual kW required and opposite the service factor, read the equivalent kW.
- Determine Coupling Size:
 - Refer to **Table 3** — Trace horizontally from the required speed to a kW value equal to or larger than the equivalent kW determined in Step 2. Read the coupling size at the top of the column.
 - Check shaft diameters against coupling maximum bores shown in **Table 3** and on **page 7** thru **11** for the correct coupling size selected.
 - In **Table 3**, check the required speed against the allowable speed shown below the correct coupling size selected.
- Determine Coupling Dimensional Requirements:
 - Determine application/design shaft spacing and check application dimension requirements against selected coupling type dimensions shown on **page 7** thru **11**. Confirm sufficient clearances for coupling.
- Confirm that application ambient operating temperatures are between -40°C (-40°F) to 95°C (200°F). For applications requiring Service Factor above 1.5 and temperatures above 79°C (175°F), consult Rexnord Engineering for selection assistance or optional high temperature elements.

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.

Table 1 — Service Factors







| Torque Demands Driven Machine | Typical applications for electric motor or turbine driven equipment | Typical Service Factor |
|--|---|------------------------|
|  | Constant torque such as Centrifugal Pumps, Blowers and Compressors. | 1.0 |
|  | Continuous duty with some torque variations including Plastic Extruders, Forced Draft Fans. | 1.5 |
|  | Light shock loads from Metal Extruders, Cooling Towers, Cane Knife, Log Haul. | 2.0 |
|  | Moderate shock loading as expected from a Car Dumper, Stone Crusher, Vibrating Screen. | 2.5 |
|  | Heavy shock load with some negative torques from Roughing Mills, Reciprocating Pumps, Compressors, Reversing Runout Tables. | 3.0 |
|  | Applications like Reciprocating Compressors with frequent torque reversals, which do not necessarily cause reverse rotations. | Refer to Factory |

Table 2 — Equivalent Power = (Actual kW x Service Factor)

| Service Factor ① | Actual kW | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|-----------|------|------|------|-----|-----|-----|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|
| | 0,25 | 0,37 | 0,55 | 0,75 | 1,1 | 1,5 | 2,2 | 3 | 4 | 5,5 | 7,5 | 9,2 | 11 | 15 | 18,5 | 22 | 30 | 37 | 45 | 55 | 75 | 90 | 110 | 132 | 150 | 185 |
| 1.0 | 0,25 | 0,37 | 0,55 | 0,75 | 1,1 | 1,5 | 2,2 | 3 | 4,0 | 5,5 | 7,5 | 9,2 | 11,0 | 15,0 | 18,5 | 22,0 | 30,0 | 37,0 | 45,0 | 55,0 | 75,0 | 90,0 | 110 | 132 | 150 | 185 |
| 1.25 | 0,31 | 0,46 | 0,69 | 0,9 | 1,4 | 1,9 | 2,8 | 3,8 | 5,0 | 6,9 | 9,4 | 11,5 | 13,8 | 18,8 | 23,1 | 27,5 | 37,5 | 46,3 | 56,3 | 68,8 | 93,8 | 113 | 138 | 165 | 188 | 231 |
| 1.5 | 0,38 | 0,56 | 0,83 | 1,1 | 1,7 | 2,3 | 3,3 | 4,5 | 6,0 | 8,3 | 11,3 | 13,8 | 16,5 | 22,5 | 27,8 | 33,0 | 45,0 | 55,5 | 67,5 | 82,5 | 113 | 135 | 165 | 198 | 225 | 278 |
| 1.75 | 0,44 | 0,65 | 0,96 | 1,3 | 1,9 | 2,6 | 3,9 | 5,3 | 7,0 | 9,6 | 13,1 | 16,1 | 19,3 | 26,3 | 32,4 | 38,5 | 52,5 | 64,8 | 78,8 | 96,3 | 131 | 158 | 193 | 231 | 263 | 324 |
| 2.0 | 0,50 | 0,74 | 1,1 | 1,5 | 2,2 | 3,0 | 4,4 | 6,0 | 8,0 | 11 | 15,0 | 18,4 | 22,0 | 30,0 | 37,0 | 44 | 60 | 74,0 | 90 | 110 | 150 | 180 | 220 | 264 | 300 | 370 |
| 2.5 | 0,63 | 0,93 | 1,4 | 1,9 | 2,8 | 3,8 | 5,5 | 7,5 | 10 | 13,8 | 18,8 | 23,0 | 27,5 | 37,5 | 46,3 | 55 | 75 | 92,5 | 113 | 138 | 188 | 225 | 275 | 330 | 375 | 463 |
| 3.0 | 0,75 | 1,1 | 1,7 | 2,3 | 3,3 | 4,5 | 6,6 | 9,0 | 12 | 16,5 | 22,5 | 27,6 | 33,0 | 45,0 | 55,5 | 66 | 90 | 111 | 135 | 165 | 225 | 270 | 330 | 396 | 450 | 555 |
| 3.5 | 0,88 | 1,3 | 1,9 | 2,6 | 3,9 | 5,3 | 7,7 | 10,5 | 14 | 19,3 | 26,3 | 32,2 | 38,5 | 52,5 | 64,8 | 77 | 105 | 130 | 158 | 193 | 263 | 315 | 385 | 462 | 525 | 648 |

① For service factors not listed, Equivalent kW = Actual kW x Service Factor.

Falk Wrapflex Coupling Selection

Table 3 — Falk Wrapflex Coupling Quick Selection Chart

| Size | 5R | 10R | 20R | 30R | 40R | 50R | 60R | 70R | 80R |
|---------------|------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Max Bore (mm) | 38 | 48 | 60 | 65 | 85 | 105 | 135 | 160 | 190 |
| Max Speed | 4500 RPM | 4500 RPM | 4500 RPM | 4500 RPM | 3600 RPM | 3000 RPM | 2500 RPM | 2100 RPM | 1800 RPM |
| Torque (Nm) | 62 | 130 | 316 | 520 | 1 028 | 2 508 | 4 011 | 8 011 | 15 027 |
| kW/100 RPM | 0,651 | 1,357 | 3,311 | 5,444 | 10,74 | 26,25 | 41,98 | 83,52 | 157,3 |
| RPM | kW Ratings | | | | | | | | |
| 4500 | 29,3 | 61,2 | 149 | 245 | — | — | — | — | — |
| 3600 | 23,4 | 49 | 119,3 | 196 | 388 | — | — | — | — |
| 3000 | 19,5 | 40,8 | 89,2 | 163 | 323 | 788 | — | — | — |
| 2500 | 16,2 | 34,0 | 82,8 | 136 | 269 | 657 | 1050 | — | — |
| 2100 | 13,6 | 28,6 | 69,6 | 114 | 226 | 552 | 882 | 1761 | — |
| 1800 | 11,7 | 24,5 | 59,7 | 97,7 | 194 | 473 | 756 | 1510 | 2832 |
| 1750 | 11,4 | 23,8 | 57,9 | 95,5 | 189 | 459 | 735 | 1468 | 2753 |
| 1450 | 9,47 | 19,8 | 48,0 | 79,1 | 156 | 381 | 609 | 1216 | 2282 |
| 1170 | 7,61 | 15,9 | 38,8 | 63,7 | 126 | 307 | 491 | 981 | 1841 |
| 1000 | 6,5 | 13,6 | 33,1 | 54,4 | 107 | 263 | 420 | 839 | 1574 |
| 870 | 5,7 | 11,9 | 28,9 | 47,4 | 94,0 | 228 | 365 | 730 | 1369 |
| 720 | 4,7 | 9,8 | 23,9 | 39,2 | 77,6 | 189 | 303 | 604 | 1133 |
| 650 | 4,2 | 8,9 | 21,6 | 35,4 | 70,0 | 171 | 273 | 545 | 1023 |
| 580 | 3,8 | 7,9 | 19,2 | 31,5 | 64,4 | 152 | 244 | 486 | 913 |
| 520 | 3,4 | 7,1 | 17,2 | 28,3 | 56 | 137 | 219 | 436 | 818 |
| 420 | 2,7 | 5,7 | 13,9 | 22,9 | 45,2 | 110 | 177 | 352 | 661 |
| 350 | 2,3 | 4,8 | 11,6 | 19,0 | 37,7 | 91,7 | 147 | 294 | 551 |
| 280 | 1,8 | 3,8 | 9,2 | 15,2 | 30,1 | 73,5 | 118 | 235 | 441 |
| 230 | 1,5 | 3,1 | 7,6 | 12,5 | 24,8 | 60,4 | 96,9 | 193 | 362 |
| 190 | 1,2 | 2,6 | 6,3 | 10,4 | 20,4 | 49,9 | 79,8 | 160 | 299 |
| 155 | 1,0 | 2,1 | 5,1 | 8,4 | 16,7 | 40,7 | 65,1 | 130 | 244 |
| 125 | 0,81 | 1,7 | 4,1 | 6,8 | 13,4 | 32,8 | 52,5 | 105 | 197 |
| 100 | 0,65 | 1,4 | 3,3 | 5,4 | 10,7 | 26,3 | 42,0 | 83,5 | 157 |
| 84 | 0,55 | 1,1 | 2,8 | 4,6 | 9,0 | 22,1 | 35,3 | 70,5 | 132 |
| 68 | 0,44 | 0,93 | 2,3 | 3,7 | 7,3 | 17,9 | 28,6 | 57,1 | 107 |
| 56 | 0,36 | 0,76 | 1,9 | 3,1 | 6,0 | 14,7 | 23,5 | 47,0 | 88,0 |
| 45 | 0,29 | 0,61 | 1,5 | 2,5 | 4,9 | 11,9 | 18,9 | 37,7 | 70,8 |
| 37 | 0,24 | 0,50 | 1,2 | 2,0 | 4,0 | 9,7 | 15,5 | 31,0 | 58,2 |
| 30 | 0,195 | 0,41 | 0,99 | 1,6 | 3,2 | 7,9 | 12,6 | 25,1 | 47,2 |
| 25 | 0,163 | 0,34 | 0,83 | 1,4 | 2,7 | 6,6 | 10,5 | 21,0 | 39,4 |
| 20 | 0,130 | 0,27 | 0,66 | 1,1 | 2,2 | 5,3 | 8,4 | 16,8 | 31,5 |
| 16.5 | 0,107 | 0,22 | 0,55 | 0,90 | 1,8 | 4,3 | 6,9 | 13,9 | 26,0 |
| 13.5 | 0,088 | 0,18 | 0,45 | 0,74 | 1,5 | 3,6 | 5,7 | 11,3 | 21,3 |
| 11 | 0,072 | 0,15 | 0,37 | 0,60 | 1,2 | 2,9 | 4,6 | 9,2 | 17,3 |
| 9 | 0,059 | 0,12 | 0,30 | 0,49 | 0,97 | 2,4 | 3,8 | 7,5 | 14,2 |
| 7.5 | 0,048 | 0,102 | 0,25 | 0,41 | 0,81 | 2,0 | 3,1 | 6,3 | 11,8 |
| 5 | 0,033 | 0,068 | 0,17 | 0,27 | 0,54 | 1,3 | 2,1 | 4,2 | 7,9 |

Service Factors

Table 4 — Flexible Coupling Service Factors for Motor ① and Turbine

Service factors listed are typical values based on normal operation of the drive systems.

| Application | Service Factor | Application | Service Factor |
|--|---------------------|--|---------------------|
| AERATOR | 2.0 | HAMMERMILL | 1.75 |
| AGITATORS | | LAUNDRY WASHER OR TUMBLER | 2.0 |
| Vertical and Horizontal | | LINE SHAFTS | |
| Screw, Propeller, Paddle..... | 1.0 | Any Processing Machinery..... | 1.5 |
| BARGE HAUL PULLER | 1.5 | MACHINE TOOLS | |
| BLOWERS | | Auxiliary and Traverse Drive..... | 1.0 |
| Centrifugal..... | 1.0 | Bending Roll, Notching Press, Punch Press, | |
| Lobe or Vane..... | 1.25 | Planer, Plate Reversing..... | 1.75 |
| CAR DUMPERS | 2.5 | Main Drive..... | 1.5 |
| CAR PULLERS | 1.5 | MAN LIFTS | Not Approved |
| CLARIFIER OR CLASSIFIER | 1.0 | METAL FORMING MACHINES | |
| COMPRESSORS | | Continuous Caster..... | 1.75 |
| Centrifugal..... | 1.0 | Draw Bench Carriage and Main Drive..... | 2.0 |
| Rotary, Lobe or Vane..... | 1.25 | Extruder..... | 2.0 |
| Rotary, Screw..... | 1.0 | Farming Machine and Forming Mills..... | 2.0 |
| Reciprocating | | Slitters..... | 1.0 |
| Direct Connected..... | Refer to Factory | Wire Drawing or Flattening..... | 1.75 |
| Without Flywheel..... | Refer to Factory | Wire Winder..... | 1.5 |
| ⊗ With Flywheel and Gear between Compressor | | Coilers and Uncoilers..... | 1.5 |
| and Prime Mover | | MIXERS (see Agitators) | |
| 1 cylinder, single acting..... | 3.0 | Concrete..... | 1.75 |
| 1 cylinder, double acting..... | 3.0 | Muller..... | 1.5 |
| 2 cylinders, single acting..... | 3.0 | PRESS, PRINTING | 1.5 |
| 2 cylinders, double acting..... | 3.0 | PUG MILL | 1.75 |
| 3 cylinders, single acting..... | 3.0 | PULVERIZERS | |
| 3 cylinders, double acting..... | 2.0 | Hammermill and Hog..... | 1.75 |
| 4 or more cyl., single act..... | 1.75 | Roller..... | 1.5 |
| 4 or more cyl., double act..... | 1.75 | PUMPS | |
| ③ CONVEYORS | | Boiler Feed..... | 1.5 |
| Apron, Assembly, Belt, Chain, Flight, Screw..... | 1.25 | Centrifugal — Constant Speed..... | 1.0 |
| Bucket..... | 1.25 | Frequent Speed Changes under Load..... | 1.25 |
| Live Roll, Shaker and Reciprocating..... | 3.0 | Descaling, with accumulators..... | 1.25 |
| ③⊕ CRANES AND HOIST | | Gear, Rotary, or Vane..... | 1.25 |
| Main Hoist..... | 1.75 ⊕ | Reciprocating, Plunger Piston | |
| Skip Hoist..... | 1.75 ⊕ | 1 cyl., single or double act..... | 3.0 |
| Slope..... | 1.5 | 2 cyl., single acting..... | 2.0 |
| Bridge, Travel or Trolley..... | 1.75 | 2 cyl., double acting..... | 1.75 |
| DYNAMOMETER | 1.0 | 3 or more cylinders..... | 1.5 |
| ELEVATORS | | Screw Pump, Progressing Cavity..... | 1.25 |
| Bucket, Centrifugal Discharge..... | 1.25 | Vacuum Pump..... | 1.25 |
| Freight or Passenger..... | Not Approved | SCREENS | |
| Gravity Discharge..... | 1.25 | Air Washing..... | 1.0 |
| ESCALATORS | Not Approved | Grizzly..... | 2.0 |
| EXCITER, GENERATOR | 1.0 | Rotary Coal or Sand..... | 1.5 |
| EXTRUDER, PLASTIC | 1.5 | Vibrating..... | 2.5 |
| FANS | | Water..... | 1.0 |
| Centrifugal..... | 1.0 | SKI TOWS & LIFTS | Not Approved |
| Cooling Tower..... | 2.0 | STEERING GEAR | 1.0 |
| Forced Draft — Across the Line start..... | 1.5 | STOKER | 1.0 |
| Forced Draft Motor driven thru fluid | | TIRE SHREDDER | 1.50 |
| or electric slip clutch..... | 1.0 | TUMBLING BARREL | 1.75 |
| Gas Recirculating..... | 1.5 | WINCH, MANEUVERING | |
| Induced Draft with damper control | | Dredge, Marine..... | 1.5 |
| or blade cleaner..... | 1.25 | WINDLASS | 1.5 |
| Induced Draft without controls..... | 2.0 | WOODWORKING MACHINERY | 1.0 |
| FEEDERS | | WORK LIFT PLATFORMS | Not Approved |
| Apron, Belt, Disc, Screw..... | 1.0 | | |
| Reciprocating..... | 2.5 | | |
| GENERATORS | | | |
| Even Load..... | 1.0 | | |
| Hoist or Railway Service..... | 1.5 | | |
| Welder Load..... | 2.0 | | |

- ① For engine drives, refer to **Table 5**. Electric motors, generators, engines, compressors and other machines fitted with sleeves or straight roller bearings usually require limited end float couplings. In doubt, provide axial clearances and centering forces to the Factory for a recommendation.
- ② For balanced opposed design, refer to the Factory.
- ③ If people are occasionally transported, refer to the Factory for the selection of the proper size coupling.
- ④ For high peak load applications (such as Metal Rolling Mills) refer to the Factory.

Table 5 — Engine Drive Service Factors ⑤

Service Factors (S.F.) for engine drives are those required for applications where good flywheel regulation prevents torque fluctuations greater than ±20%. For drives where torque fluctuations are greater or where the operation is near a serious critical or torsional vibration, a mass elastic study is necessary.

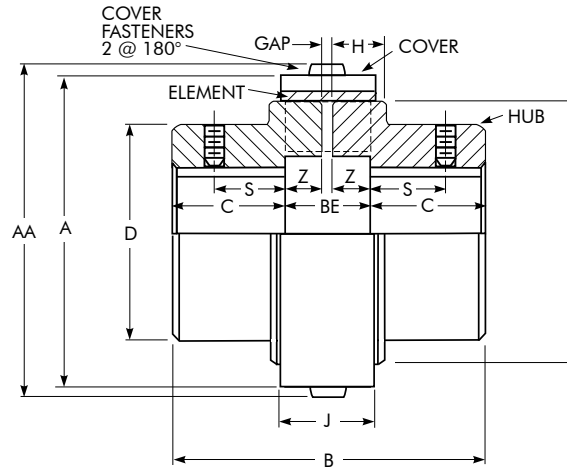
| No. of Cylinders | 4 or 5 ⑤ | | | | 6 or more ⑤ | | | | | |
|---------------------|----------|------|-----|------|-------------|-----|------|-----|------|-----|
| Table 4 S.F. | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 |
| Engine S.F. | 2.0 | 2.25 | 2.5 | 2.75 | 3.0 | 1.5 | 1.75 | 2.0 | 2.25 | 2.5 |

- ⑤ To use **Table 5**, first determine application service factor from **Table 4**. Use that factor to determine Engine S.F. from **Table 5**. When service factor from **Table 4** is greater than 2.0, or where 1, 2, or 3 cylinder engines are involved, refer complete application details to Rexnord Engineering.

Drives

| Industry | Service Factor | Industry | Service Factor |
|---|---------------------|--|------------------|
| AGGREGATE PROCESSING, CEMENT, MINING KILNS; TUBE, ROD AND BALL MILLS | | Shear, Croppers..... | Refer to Factory |
| Direct or on L.S. shaft of Reducer, | | Sideguards..... | 3.0 |
| with final drive Machined Spur Gears..... | 2.0 | Skeip Mills..... | Refer to Factory |
| Single Helical or Herringbone Gears..... | 1.75 | Slitters, Steel Mill only..... | 1.75 |
| Conveyors, Feeders, Screens, | | Soaking Pit Cover Drives — | |
| Elevators..... | See General Listing | Lift..... | 1.0 |
| Crushers, Ore or Stone..... | 2.5 | Travel..... | 2.0 |
| Dryer, Rotary..... | 1.75 | Straighteners..... | 2.0 |
| Grizzly..... | 2.0 | Unscramblers (Billet Bundle Busters)..... | 2.0 |
| Hammermill or Hog..... | 1.75 | Wire Drawing Machinery..... | 1.75 |
| Tumbling Mill or Barrel..... | 1.75 | OIL INDUSTRY | |
| BREWING AND DISTILLING | | Chiller..... | 1.25 |
| Bottle and Can Filling Machines..... | 1.0 | Oilwell Pumping (not over 150% peak torque)..... | 2.0 |
| Brew Kettle..... | 1.0 | Paraffin Filter Press..... | 1.5 |
| Cookers, Continuous Duty..... | 1.25 | Rotary Kiln..... | 2.0 |
| Lauter Tub..... | 1.5 | PAPER MILLS | |
| Mash Tub..... | 1.25 | Barker Auxiliary, Hydraulic..... | 2.0 |
| Scale Hopper, Frequent Peaks..... | 1.75 | Barker, Mechanical..... | 2.0 |
| CLAY WORKING INDUSTRY | | Barking Drum | |
| Brick Press, Briquette Machine, Clay Working | | L.S. shaft of reducer with final drive - Helical | |
| Machine, Pug Mill..... | 1.75 | or Herringbone Gear..... | 2.0 |
| DREDGES | | Machined Spur Gear..... | 2.5 |
| Cable Reel..... | 1.75 | Cast Tooth Spur Gear..... | 3.0 |
| Conveyors..... | 1.25 | Beater & Pulper..... | 1.75 |
| Cutter head, Jig Drive..... | 2.0 | Bleachers, Coaters..... | 1.0 |
| Maneuvering Winch..... | 1.5 | Calender & Super Calender..... | 1.75 |
| Pumps (uniform load)..... | 1.5 | Chipper..... | 2.5 |
| Screen Drive, Stacker..... | 1.75 | Converting Machine..... | 1.25 |
| Utility Winch..... | 1.5 | Couch..... | 1.75 |
| FOOD INDUSTRY | | Cutter, Felt Whipper..... | 2.0 |
| Beet Slicer..... | 1.75 | Cylinder..... | 1.75 |
| Bottling, Can Filling Machine..... | 1.0 | Dryer..... | 1.75 |
| Cereal Cooker..... | 1.25 | Felt Stretcher..... | 1.25 |
| Dough Mixer, Meat Grinder..... | 1.75 | Foudrinier..... | 1.75 |
| LUMBER | | Jordan..... | 2.0 |
| Band Resaw..... | 1.5 | Log Haul..... | 2.0 |
| Circular Resaw, Cut-off..... | 1.75 | Line Shaft..... | 1.5 |
| Edger, Head Rig, Hog..... | 2.0 | Press..... | 1.75 |
| Gang Saw (Reciprocating)..... | Refer to Factory | Pulp Grinder..... | 1.75 |
| Log Haul..... | 2.0 | Reel, Rewinder, Winder..... | 1.5 |
| Planer..... | 1.75 | Stock Chest, Washer, Thickener..... | 1.5 |
| Rolls, Non-Reversing..... | 1.25 | Stock Pumps, Centrifugal | |
| Rolls, Reversing..... | 2.0 | Constant Speed..... | 1.0 |
| Sawdust Conveyor..... | 1.25 | Frequent Speed Changes Under Load..... | 1.25 |
| Slab Conveyor..... | 1.75 | Suction Roll..... | 1.75 |
| Sorting Table..... | 1.5 | Vacuum Pumps..... | 1.25 |
| Trimmer..... | 1.75 | RUBBER INDUSTRY | |
| ④ METAL ROLLING MILLS | | Calender..... | 2.0 |
| Coilers (Up or Down) Cold Mills only..... | 1.5 | Cracker, Plasticator..... | 2.5 |
| Coilers (Up or Down) Hot Mills only..... | 2.0 | Extruder..... | 1.75 |
| Coke Plants | | Intensive or Banbury Mixer..... | 2.5 |
| Pusher Ram Drive..... | 2.5 | Mixing Mill, Refiner or Sheeter | |
| Door Opener..... | 2.0 | One or two in line..... | 2.5 |
| Pusher or Larry Car Traction Drive..... | 3.0 | Three or four in line..... | 2.0 |
| Continuous Caster..... | 1.75 | Five or more in line..... | 1.75 |
| Cold Mills — Strip Mills..... | Refer to Factory | Tire Building Machine..... | 2.5 |
| Temper Mills..... | Refer to Factory | Tire & Tube Press Opener (Peak Torque)..... | 1.0 |
| Cooling Beds..... | 1.5 | Tuber, Strainer, Pelletizer..... | 1.75 |
| Drawbench..... | 2.0 | Warming Mill | |
| Feed Rolls - Blooming Mills..... | 3.0 | One or two Mills in line..... | 2.0 |
| Furnace Pushers..... | 2.0 | Three or more Mills in line..... | 1.75 |
| Hot and Cold Saws..... | 2.0 | Washer..... | 2.5 |
| Hot Mills — | | SEWAGE DISPOSAL EQUIPMENT | |
| Strip or Sheet Mills..... | Refer to Factory | Bar Screen, Chemical Feeders, Collectors, | |
| Reversing Blooming..... | Refer to Factory | Dewatering Screen, Grit Collector..... | 1.0 |
| Slabbing Mills..... | Refer to Factory | SUGAR INDUSTRY | |
| Edger Drives..... | Refer to Factory | Cane Carrier & Leveler..... | 1.75 |
| Ingot Cars..... | 2.0 | Cane Knife & Crusher..... | 2.0 |
| Manipulators..... | 3.0 | Mill Stands, Turbine Drive with all Helical | |
| Merchant Mills..... | Refer to Factory | or Herringbone gears..... | 1.5 |
| Mill Tables | | Electric Drive or Steam Engine Drive with Helical, | |
| Roughing Breakdown Mills..... | 3.0 | Herringbone, or Spur Gears | |
| Hot Bed or Transfer, non-reversing..... | 1.5 | with any Prime Mover..... | 1.75 |
| Runout, reversing..... | 3.0 | TEXTILE INDUSTRY | |
| Runout, non-reversing, non-plugging..... | 2.0 | Batcher..... | 1.25 |
| Reel Drives..... | 1.75 | Calender, Card Machine..... | 1.5 |
| Rod Mills..... | Refer to Factory | Cloth Finishing Machine..... | 1.5 |
| Screwdown..... | 2.0 | Dry Can, Loom..... | 1.5 |
| Seamless Tube Mills | | Dyeing Machinery..... | 1.25 |
| Piercer..... | 3.0 | Knitting Machine..... | Refer to Factory |
| Thrust Block..... | 2.0 | Mangle, Napper, Soaper..... | 1.25 |
| Tube Conveyor Rolls..... | 2.0 | Spinner, Tenter Frame, Winder..... | 1.5 |
| Reeler..... | 2.0 | | |
| Kick Out..... | 2.0 | | |

Close-Coupled Type R10

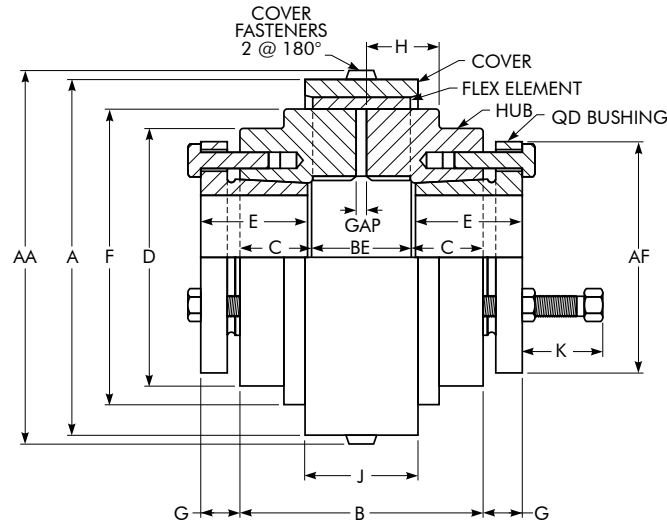


Dimensions (mm)

| Cplg Size ① | Torque Rating (Nm) | Allow Speed RPM | Min Bore | Max Bore ② | Cplg Wt (kg) ③ | | A | | AA | | B | BE ⑤ | C | D | F | H | J | S | Z | GAP ⑤ | Cover Fasteners ⑥ | |
|----------------|-----------------------|--------------------|----------|---------------|----------------|------------------|-------------|------------------|-------------|------------------|-------|------|-------|-------|-------|------|------|------|------|-------|----------------------|--------------|
| | | | | | Nylon Cover | Steel Cover ④ | Nylon Cover | Steel Cover ④ | Nylon Cover | Steel Cover ④ | | | | | | | | | | | Size | Allen Wrench |
| 5R | 62 | 4500 | 12,7 | 38,00 | 1,35 | 1,49 | 76,5 | 76,5 | 80,5 | 80,4 | 71,9 | 19,8 | 25,9 | 59,9 | 64,0 | 15,0 | 23,1 | 16 | 8,9 | 2,00 | M4 | M2,5 |
| 10R | 130 | 4500 | 15,88 | 48,00 | 2,49 | 2,72 | 90,4 | 90,4 | 94,5 | 94,4 | 91,9 | 23,9 | 34,0 | 72,1 | 75,9 | 19,1 | 27,9 | 22,4 | 10,9 | 2,00 | M4 | M2,5 |
| 20R | 316 | 4500 | 19,05 | 60,00 | 5,64 | 6,09 | 126 | 124 | 132 | 130 | 121,9 | 32,0 | 45,0 | 91,9 | 102,1 | 24,9 | 37,1 | 25,4 | 15,0 | 2,00 | M6 | M4 |
| 30R | 520 | 4500 | 25,4 | 65,00 | 9,41 | 10 | 146,6 | 143 | 153 | 149 | 151,9 | 36,1 | 57,9 | 104,9 | 118,1 | 29 | 41,9 | 31,8 | 17,0 | 2,00 | M6 | M4 |
| 40R | 1028 | 3600 | 28,58 | 85,00 | 17,1 | 18,1 | 182,1 | 177 | 190 | 185 | 181,1 | 47,0 | 67,1 | 130 | 150,1 | 34 | 54,6 | 41,4 | 21,1 | 5,00 | M8 | M5 |
| 50R | 2508 | 3000 | 31,75 | 105,00 | 35,8 | 37,7 | 230,9 | 224 | 239 | 232 | 214,9 | 60,7 | 77,0 | 178,1 | 190 | 46 | 69,6 | 44,5 | 27,9 | 5,00 | M8 | M5 |
| 60R | 4011 | 2500 | 50,8 | 135,00 | — | 66,4 | — | 267 | — | 278 | 275,3 | 75,4 | 100,1 | 209,6 | 228,1 | 60,2 | 67,1 | — | 35,3 | 5,00 | M10 | M6 |
| 70R | 8011 | 2100 | 69,85 | 160,00 | — | 111 | — | 310 | — | 321 | 324,1 | 84,1 | 119,9 | 251 | 270 | 69,6 | 74,9 | — | 39,6 | 5,00 | M10 | M6 |
| 80R | 15027 | 1800 | 85,73 | 190,00 | — | 166 | — | 370 | — | 381 | 376,9 | 97,0 | 140 | 270 | 327,9 | 83,3 | 85,1 | — | 45,5 | 6,00 | M10 | M6 |

- ① Wrapflex is a metric product. Metric to inch conversions may not be direct. Dimensions are for reference only and are subject to change without notice unless certified.
- ② AGMA Class 1 clearance fit bores are standard for Sizes 5R thru 50R, with two setscrews (one over keyway and one at 90°). Interference fit bores and one setscrew over keyway is standard for 60 thru 80R. Long hubs and interference fits are available and recommended when at or near maximum bore and: a) Number of start/stop cycles exceeds 10 per hour; or b) Application service factor = 2.0 or higher.
- ③ Coupling assembly weight is based on "no bore" hubs. For coupling assembly weight and bored hubs, subtract the following value for each hub: $(5,08)(\text{Bore})^2(C)$ kg Bore in "millimeters".
- ④ Nylon cover is standard on Sizes 5R thru 50R, with an epoxy-coated steel cover as an option. Epoxy-coated steel cover is standard on Sizes 60R thru 80R, with no option for nylon cover.
- ⑤ "BE" = Standard "Distance Between Shaft Ends" with hubs mounted flush to the shaft ends. "GAP" = Minimum allowable "Distance Between Shaft Ends". Any shaft end spacing between the "GAP" and "BE" dimensions is acceptable. However, if utilizing a shaft end spacing less than the "BE" dimension, the key should not extend beyond the hub face in order to prevent potential interference with the flex element.
- ⑥ Cover fasteners are stainless steel, socket button head cap screws, per ISO 7380-A2. Two cap screws per coupling assembly.

QD Bushings Type R10



Dimensions (mm)

| Coupling Size | Bushing Size | Torque Rating ① (Nm) | Kw per 100 RPM | Max RPM | Max Bore ① | Min Bore ① | Coupling Weight without Bushing | | GAP | BE |
|---------------|--------------|-------------------------|-------------------|---------|------------|------------|---------------------------------|------------------|-----|------|
| | | | | | | | Nylon Cover (kg) | Steel Cover (kg) | | |
| 5R | JA | 62 | 0,65 | 4500 | 30 | 15 | 0,968 | 1,1 | 2 | 20 |
| 10R | JA | 113 | 1,18 | 4500 | 30 | 15 | 1,59 | 1,81 | 2 | 24 |
| 20R | SD | 316 | 3,31 | 4500 | 43 | 24 | 3,06 | 3,54 | 2 | 32 |
| 30R | SD | 520 | 5,44 | 4500 | 43 | 24 | 4,64 | 5,27 | 2 | 36 |
| 40R | SF | 1028 | 10,8 | 3600 | 63 | 28 | 7,73 | 8,73 | 5 | 47 |
| 50R | E | 2260 | 23,7 | 3000 | 89 | 35 | 17,5 | 19,4 | 5 | 61 |
| 60R | J | 4011 | 42 | 2500 | 114 | 50 | NA | 39,2 | 5 | 75,4 |
| 70R | J | 5085 | 53 | 2100 | 114 | 50 | NA | 64,5 | 5 | 84,4 |
| 80R | M ② | 9600 | 101 | 1800 | 139 | 80 | NA | 115,5 | 6 | 96,8 |

| Coupling Size | Cover Fasteners ③ | | Bushing Fasteners ③ Inch Hardware | AA – Nylon Cover | AA – Steel Cover | A – Nylon Cover | A – Steel Cover | AF ① | B |
|---------------|-------------------|----------|--------------------------------------|------------------|------------------|-----------------|-----------------|-------|-------|
| | Size | Hex Tool | | | | | | | |
| 5R | M4 | M2,5 | #10-24 x 1.00 | 80,5 | 80,4 | 76,5 | 76,5 | 50,8 | 71,9 |
| 10R | M4 | M2,5 | #10-24 x 1.00 | 94,5 | 94,4 | 90,4 | 90,4 | 50,8 | 75,9 |
| 20R | M6 | M4 | 1/4-20 x 1.00 | 132 | 130 | 126 | 124 | 81 | 96 |
| 30R | M6 | M4 | 1/4-20 x 1.00 | 153 | 149 | 146,6 | 143 | 81 | 100,1 |
| 40R | M8 | M5 | 3/8-16 x 1.25 | 190 | 185 | 182,1 | 177 | 117,6 | 114,8 |
| 50R | M8 | M5 | 1/2-13 x 1.75 | 239 | 232 | 230,9 | 224 | 152,4 | 144,8 |
| 60R | M10 | M6 | 5/8-11 x 2.50 | – | 278 | – | 267 | 184,2 | 237,2 |
| 70R | M10 | M6 | 5/8-11 x 2.50 | – | 321 | – | 309,9 | 184,2 | 246,1 |
| 80R | M10 | M6 | 3/4-10 x 3.00 | – | 381 | – | 370,1 | 231,9 | 361,2 |

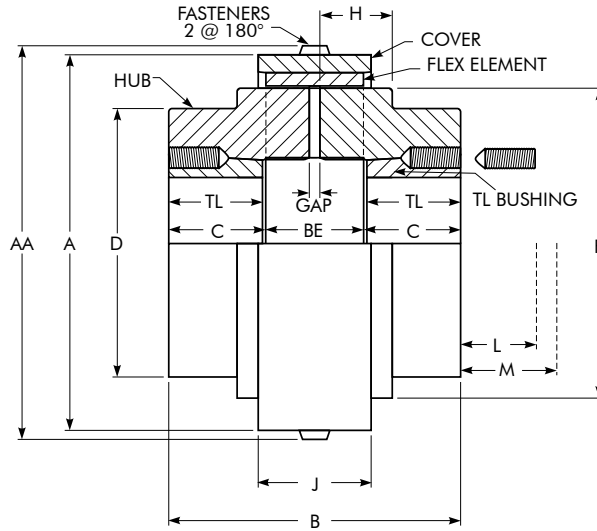
| Coupling Size | C | D | E □ | F | G ① | H | J – Nylon Cover | J – Steel Cover | K – Clearance |
|---------------|-----|-------|-------|-----|------|------|-----------------|-----------------|---------------|
| 5R | 26 | 59,9 | 25,4 | 64 | 11,2 | 15 | 23,1 | 23,1 | 29,5 |
| 10R | 26 | 72,1 | 25,4 | 76 | 11,2 | 19,1 | 27,9 | 27,9 | 29,5 |
| 20R | 32 | 91,9 | 46 | 102 | 14,2 | 24,9 | 37,1 | 37,1 | 30,2 |
| 30R | 32 | 104,9 | 46 | 118 | 14,2 | 29 | 41,9 | 41,7 | 30,2 |
| 40R | 34 | 130 | 50,8 | 150 | 21,3 | 34 | 54,6 | 53,1 | 38,1 |
| 50R | 42 | 178,1 | 66,8 | 190 | 28,7 | 46 | 69,6 | 67,3 | 54,1 |
| 60R | 81 | 209,6 | 114,3 | 228 | 38,1 | 60,2 | – | 67,1 | 74,7 |
| 70R | 81 | 251 | 114,3 | 270 | 38,1 | 69,6 | – | 74,9 | 74,7 |
| 80R | 132 | 270 | 171,5 | 328 | 42,2 | 83,3 | – | 85,1 | 88,9 |

① May vary depending upon bushing manufacturer. Consult bushing manufacturer for specific dimension if required.

② 80R requires a special "M" bushing, manufactured for "reverse" mounting. Consult bushing manufacturer.

③ Cover fasteners are ISO 7380, stainless steel, socket button head cap screws. Bushing fasteners are SAE Grade 5 (inch) or ISO 8.8 (metric), hex head cap screws.

Taper-Lock BSW® Bushings Type R10



Dimensions (mm)

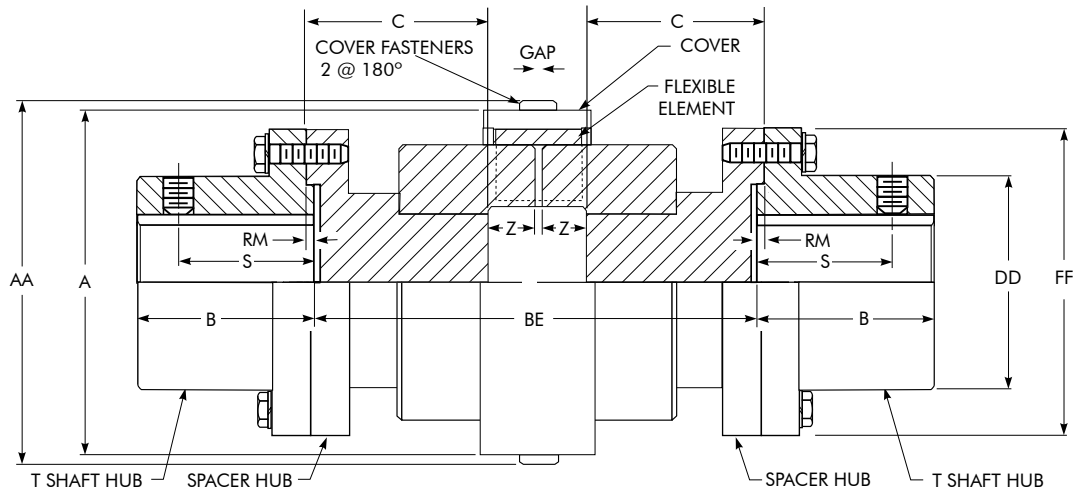
| Coupling Size | Bushing Size | Torque Rating ① (Nm) | Kw per 100 RPM | Max RPM | Max Bore ① | Min Bore ① | Coupling Weight w/o Bushing | | GAP |
|---------------|--------------|-------------------------|----------------|---------|------------|------------|-----------------------------|---------------------|-----|
| | | | | | | | Nylon Cover (kg) | Steel Cover (kg) | |
| 5R | 1108 | 62 | 0,65 | 4500 | 28 | 13 | 0,807 | 0,943 | 2 |
| 10R | 1210 | 130 | 1,36 | 4500 | 32 | 13 | 1,56 | 1,78 | 2 |
| 20R | 1610 | 316 | 3,31 | 4500 | 42 | 13 | 3,11 | 3,59 | 2 |
| 30R | 2012 | 520 | 5,44 | 4500 | 50 | 13 | 4,85 | 5,49 | 2 |
| 40R | 2517 | 1028 | 10,8 | 3600 | 65 | 13 | 8,80 | 9,84 | 5 |
| 50R | 3020 | 2508 | 26,3 | 3000 | 80 | 24 | 18,6 | 20,4 | 5 |
| 60R | 4040 | 4011 | 42 | 2500 | 105 | 37 | – | 35,3 | 5 |
| 70R | 4545 | 8011 | 84 | 2100 | 115 | 50 | – | 54,4 | 5 |
| 80R | 5050 | 14236 | 149 | 1800 | 127 | 61 | – | 103 | 6 |

| Coupling Size | BE | Cover Fasteners ② | | A – Nylon Cover | A – Steel Cover | AA – Nylon Cover | AA – Steel Cover | B | C |
|---------------|------|-------------------|----------|-----------------|-----------------|------------------|------------------|-------|-------|
| | | Size | Hex Tool | | | | | | |
| 5R | 20,0 | M4 | M2,5 | 76,5 | 76,5 | 80,5 | 80,4 | 65,0 | 22,5 |
| 10R | 24,0 | M4 | M2,5 | 90,4 | 90,4 | 94,5 | 94,4 | 90,0 | 33,0 |
| 20R | 32,0 | M6 | M4 | 126 | 124 | 132 | 130 | 98,0 | 33,0 |
| 30R | 36,0 | M6 | M4 | 146,6 | 143 | 153 | 149 | 120,0 | 42,0 |
| 40R | 47,0 | M8 | M5 | 182,1 | 177 | 190 | 185 | 139,0 | 46,0 |
| 50R | 61,0 | M8 | M5 | 230,9 | 224 | 239 | 232 | 171,0 | 55,0 |
| 60R | 75,4 | M10 | M6 | – | 267 | – | 278 | 245,4 | 85,0 |
| 70R | 84,4 | M10 | M6 | – | 309,9 | – | 321 | 264,4 | 90,0 |
| 80R | 96,8 | M10 | M6 | – | 370,1 | – | 381 | 304,8 | 104,0 |

| Coupling Size | D | F | H | J – Nylon Cover | J – Steel Cover | L ③ | | M ④ | | TL |
|---------------|-------|-------|------|-----------------|-----------------|------------------|-----------------|------------------|-----------------|-----|
| | | | | | | Standard Hex Key | Short Hex Key ⑤ | Standard Hex Key | Short Hex Key ⑤ | |
| 5R | 59,9 | 64,0 | 15,0 | 23,1 | 23,0 | 29 | 16 | 32 | 19 | 22 |
| 10R | 72,1 | 75,9 | 19,1 | 27,9 | 28,0 | 35 | 21 | 42 | 27 | 25 |
| 20R | 91,9 | 102,1 | 24,9 | 37,1 | 37,1 | 35 | 21 | 42 | 27 | 25 |
| 30R | 104,9 | 118,1 | 29 | 41,9 | 41,6 | 40 | 24 | 51 | 35 | 32 |
| 40R | 130 | 150,1 | 34 | 54,6 | 53,0 | 42 | 26 | 58 | 42 | 45 |
| 50R | 178,1 | 190 | 46 | 69,6 | 67,2 | 46 | 31 | 69 | 53 | 51 |
| 60R | 209,6 | 228,1 | 60,2 | – | 67,1 | 61 | 42 | 105 | 86 | 76 |
| 70R | 251 | 270 | 69,6 | – | 74,9 | 67 | 50 | 121 | 104 | 89 |
| 80R | 270 | 327,9 | 83,3 | – | 85,1 | 72 | 59 | 134 | 123 | 102 |

- ① Typical – refer to bushing manufacturer for exceptions and service factor limitations.
- ② Cover fasteners are ISO 7380, stainless steel, socket button head cap screws.
- ③ Space required to tighten bushing. Also, space required to loosen screws to permit removal of hub by puller.
- ④ Space required to remove bushing using jack screws – no puller required.
- ⑤ Standard hex key cut to minimum useable length.
- ⑥ BSW (British Standard Whitworth) threads (55° Pressure Angle) are common outside USA (UNC thread with 60° Pressure Angle). BSW are considered by same manufacturers to be interchangeable with UNC threads except for 1/2" x 12 TPI (Threads Per Inch) on 2517 BSW bushing.

Full Spacer Type R31



Dimensions (mm)

| Cplg Size ① | NOTE: Distance Between Shaft Ends (BE) = 2(C) + 2(Z) + GAP - 2(RM) | | | | | | | | | | | | | | | | | | | | T Shaft Hub | | |
|-------------|--|-----------------|----------------|----------------------|-------|------|-------------|---------------|-------------|---------------|------|-------|-------|-----|------|------|------|------|-------------------|------|----------------|--------------------|-------|
| | Spacer Dimensions | | | | | | | | | | | | | | | | | | | | | | |
| | Torque Rating (Nm) | Allow Speed RPM | Max Bore ⑤ | Cplg Wt No Bore - kg | | BE | | A | | AA | | B | DD | FF | RM | S | Z | GAP | Cover Fasteners ③ | | | Flange Fasteners ④ | |
| | | | At Min BE (kg) | Per Added BE (kg/mm) | Min | Max | Nylon Cover | Steel Cover ② | Nylon Cover | Steel Cover ② | | | | | | | | Size | Allen Wrench Tool | Size | No. Per Flange | | |
| 5R | 62 | 4500 | 35 | 3,63 | 0,014 | 80,9 | 235 | 76,5 | 76,5 | 80,5 | 80,4 | 34,9 | 52,4 | 86 | 1,27 | 27,4 | 8,9 | 2 | M4 | M2,5 | M6 | 4 | 1020T |
| 10R | 130 | 4500 | 43 | 4,99 | 0,015 | 88,9 | 254 | 90,4 | 90,4 | 94,5 | 94,4 | 41,3 | 59,5 | 94 | 1,27 | 31,5 | 10,9 | 2 | M4 | M2,5 | M6 | 8 | 1030T |
| 20R | 316 | 4500 | 56 | 9,53 | 0,027 | 88,9 | 254 | 126 | 124 | 132 | 130 | 54,0 | 78,6 | 113 | 1,27 | 27,4 | 15,0 | 2 | M6 | M4 | M6 | 8 | 1040T |
| 30R | 520 | 4500 | 67 | 14,1 | 0,034 | 111 | 254 | 146,6 | 143 | 153 | 149 | 60,3 | 87,3 | 126 | 1,27 | 40,6 | 17,0 | 2 | M6 | M4 | M8 | 8 | 1050T |
| 40R | 1028 | 3600 | 85 | 25,9 | 0,040 | 127 | 311 | 182,1 | 177 | 190 | 185 | 79,4 | 109,5 | 153 | 1,27 | 46,7 | 21,1 | 5 | M8 | M5 | M10 | 12 | 1070T |
| 50R | 2508 | 3000 | 95 | 45,4 | 0,059 | 165 | 311 | 230,9 | 224 | 239 | 232 | 88,9 | 122,2 | 178 | 1,27 | 49,8 | 27,9 | 5 | M8 | M5 | M12 | 12 | 1080T |
| 60R | 4011 | 2500 | 110 | 72,6 | 0,082 | 200 | 311 | - | 267 | - | 278 | 101,6 | 142,9 | 210 | 1,27 | - | 35,3 | 5 | M10 | M6 | M16 | 12 | 1090T |
| 70R | 8011 | 2100 | 130 | 102 | 0,117 | 224 | 373 | - | 310 | - | 321 | 90,4 | 171,4 | 251 | 1,52 | - | 39,6 | 5 | M10 | M6 | M20 | 12 | 1100T |
| 70R | 8011 | 2100 | 150 | 120 | 0,117 | 224 | 373 | - | 310 | - | 321 | 104,1 | 196,8 | 276 | 1,52 | - | 39,6 | 5 | M10 | M6 | M20 | 12 | 1110T |
| 80R | 15027 | 1800 | 170 | 188 | 0,144 | 250 | 424 | - | 370 | - | 381 | 119,4 | 225,4 | 320 | 2,39 | - | 45,5 | 6 | M10 | M6 | M24 | 12 | 1120T |
| 80R | 15027 | 1800 | 190 | 230 | 0,240 | 256 | 424 | - | 370 | - | 381 | 134,6 | 238,1 | 347 | 2,39 | - | 45,5 | 6 | M10 | M6 | M27 | 12 | 1130T |

- ① Wrapflex is a metric product. Metric to inch conversions may not be direct. Dimensions are for reference only and are subject to change without notice unless certified.
- ② 5R-50R nylon cover is standard and epoxy coated steel cover is optional. 60R-80R epoxy coated steel cover is standard (nylon cover not available).
- ③ Cover fasteners are ISO 7380, stainless steel, socket button head cap screws. Two cover fasteners per coupling.
- ④ Flange fasteners are ISO Class 10.9 hex head cap screws for 5R thru 80R.
- ⑤ Maximum Inch Bore listed is for a standard square key. Larger bores, with a rectangular key, are available. Sizes 5R-50R are standard clearance fit with setscrew over keyway. Size 60R is standard interference fit with keyway, but no setscrew. For interference fit with setscrew over keyway, refer to 427-105.

Taper-Lock Bushings for T Shaft Hubs

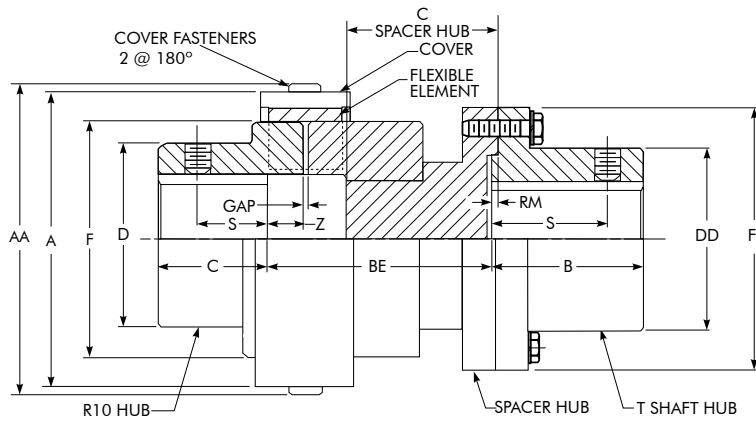
| Cplg Size | T Shaft Hub | Assembly Torque Rating (Nm) | kW per 100 RPM | Allow Speed | Bore Range | Bushing Size |
|-----------|-------------|-----------------------------|----------------|-------------|------------|--------------|
| 5R | 1020T | 62 | 0,65 | 4500 | 13-28 | 1108 |
| 10R | 1030T | 130 | 1,36 | 4500 | 13-28 | 1108 |
| 20R | 1040T | 315 | 3,31 | 4500 | 13-35 | 1310 |
| 30R | 1050T | 485 | 5,1 | 4500 | 13-42 | 1615 |
| 40R | 1070T | 994 | 10,4 | 3600 | 20-65 | 2525 |
| 50R | 1080T | 1276 | 13,4 | 3000 | 20-65 | 2525 |
| 60R | 1090T | 2710 | 28,4 | 2500 | 24-75 | 3030 |
| 70R | 1100T | 5062 | 53,1 | 2100 | 31-95 | 3535 |
| 70R | 1110T | 8000 | 83,9 | 2100 | 37-105 | 4040 |
| 80R | 1120T | 12428 | 130 | 1800 | 50-115 | 4545 |
| 80R | 1130T | 14226 | 149 | 1800 | 61-127 | 5050 |

Type R31 Standard Spacer Lengths

| Cplg Size | BE Lengths (Distance Between Shaft Ends) | | | | | | | | |
|-----------|--|--------|---------|--------|---------|--------|---------|---------|----------|
| | 3.50 in | 100 mm | 4.38 in | 140 mm | 5.00 in | 180 mm | 7.25 in | 9.75 in | 10.00 in |
| 5R | X | X | X | - | X | - | - | - | - |
| 10R | X | X | X | X | X | - | X | - | - |
| 20R | X | X | X | X | X | - | X | - | - |
| 30R | - | - | X | X | X | X | X | - | - |
| 40R | - | - | - | X | X | X | X | X | - |
| 50R | - | - | - | - | - | - | X | X | X |
| 60R | - | - | - | - | - | - | - | X | - |

NOTE: Other BE lengths available. Refer to the Factory.

Half Spacer Type R35



Dimensions (mm)

NOTE: Distance Between Shaft Ends (BE) = (C)Spacer Hub + 2(Z) + GAP – RM
Spacer Dimensions

| Cplg Size ① | Torque Rating (Nm) | Allow Speed RPM | Max Bore ⑤ | | Cplg Wt No Bore (kg) | | BE | | A | | AA | | B | C R10 Hub | D | DD | F | FF | RM | S | | Z | GAP | Cover Fasteners ⑤ | | Flange Fasteners ⑥ | | T Shaft Hub |
|-------------|--------------------|-----------------|-------------|---------|----------------------|----------------------|-------|-------|-------------|---------------|-------------|---------------|-------|-----------|-------|-------|-------|-----|------|-------------|-----------|------|-----|-------------------|-------------------|--------------------|----------------|-------------|
| | | | T Shaft Hub | R10 Hub | At Min BE (kg) | Per Added BE (kg/mm) | Min | Max | Nylon Cover | Steel Cover ② | Nylon Cover | Steel Cover ② | | | | | | | | Shaft Hub ④ | R10 Hub ④ | | | Size | Allen Wrench Tool | Size | No. Per Flange | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5R | 62 | 4500 | 35 | 38,00 | 2,54 | 0,014 | 50,5 | 127,0 | 76,5 | 76,5 | 80,5 | 80,4 | 34,9 | 25,9 | 59,9 | 52,4 | 64,0 | 86 | 1,27 | 27,4 | 15,9 | 8,9 | 2 | M4 | M2,5 | M6 | 4 | 1020T |
| 10R | 130 | 4500 | 43 | 48,00 | 3,96 | 0,015 | 59,6 | 140,0 | 90,4 | 90,4 | 94,5 | 94,4 | 41,3 | 34,0 | 72,1 | 59,5 | 75,9 | 94 | 1,27 | 31,5 | 22,2 | 10,9 | 2 | M4 | M2,5 | M6 | 8 | 1030T |
| 20R | 316 | 4500 | 56 | 60,00 | 8,44 | 0,027 | 76,5 | 140,0 | 126 | 124 | 132 | 130 | 54,0 | 45,0 | 91,9 | 78,6 | 102,1 | 113 | 1,27 | 27,4 | 25,4 | 15,0 | 2 | M6 | M4 | M8 | 8 | 1040T |
| 30R | 520 | 4500 | 67 | 65,00 | 12,9 | 0,034 | 87,6 | 146,1 | 146,6 | 143 | 153 | 149 | 60,3 | 57,9 | 104,9 | 87,3 | 118,1 | 126 | 1,27 | 40,6 | 31,8 | 17,0 | 2 | M6 | M4 | M8 | 8 | 1050T |
| 40R | 1028 | 3600 | 85 | 85,00 | 22,4 | 0,040 | 88,6 | 184,2 | 182,1 | 177 | 190 | 185 | 79,4 | 67,1 | 130 | 109,5 | 150,1 | 153 | 1,27 | 46,7 | 41,3 | 21,1 | 5 | M8 | M5 | M10 | 12 | 1070T |
| 50R | 2508 | 3000 | 95 | 105,00 | 40,8 | 0,059 | 113,1 | 184,2 | 230,9 | 224 | 239 | 232 | 88,9 | 77,0 | 178,1 | 122,2 | 190 | 178 | 1,27 | 49,8 | 44,5 | 27,9 | 5 | M8 | M5 | M12 | 12 | 1080T |
| 60R | 4011 | 2500 | 110 | 135,00 | 69,0 | 0,082 | 137,6 | 203,2 | – | 267 | – | 278 | 101,6 | 100,1 | 209,6 | 142,9 | 228,1 | 210 | 1,27 | – | – | 35,3 | 5 | M10 | M6 | M16 | 12 | 1090T |
| 70R | 8011 | 2100 | 130 | 160,00 | 106 | 0,117 | 153,9 | 228,9 | – | 310 | – | 321 | 90,4 | 119,9 | 251 | 171,4 | 270 | 251 | 1,52 | – | – | 39,6 | 5 | M10 | M6 | M20 | 12 | 1100T |
| 70R | 8011 | 2100 | 150 | 160,00 | 115 | 0,117 | 153,9 | 228,9 | – | 310 | – | 321 | 104,1 | 119,9 | 251 | 196,8 | 270 | 276 | 1,52 | – | – | 39,6 | 5 | M10 | M6 | M20 | 12 | 1110T |
| 80R | 15027 | 1800 | 170 | 190,00 | 180 | 0,144 | 172,7 | 259,6 | – | 370 | – | 381 | 119,4 | 140 | 270 | 225,4 | 327,9 | 320 | 2,39 | – | – | 45,5 | 6 | M10 | M6 | M24 | 12 | 1120T |
| 80R | 15027 | 1800 | 190 | 190,00 | 193 | 0,240 | 175,5 | 259,6 | – | 370 | – | 381 | 134,6 | 140 | 270 | 238,1 | 327,9 | 347 | 2,39 | – | – | 45,5 | 6 | M10 | M6 | M27 | 12 | 1130T |

- ① **IMPORTANT: Upon removal of spacer hub, working clearance available for equipment removal = “BE” – “Z”.**
Wrapflex is a metric product. Metric to inch conversions may not be direct. Dimensions are for reference and are subject to change without notice unless certified.
- ② 5R-50R nylon cover is standard and epoxy coated steel cover is optional. 60R-80R epoxy coated steel cover is standard (nylon cover not available).
- ③ For R10 hubs see **page 7** for “Max Bore Protruded Shaft” along with the footnote. Maximum Inch Bore listed is for a standard square key. For T shaft hubs only, larger inch bores with a rectangular key are available. Sizes 5R-50R are standard clearance fit with setscrew(s) over keyway. Sizes 60R - 80R are standard interference fit with keyway, but no setscrew. For interference fit with setscrew over keyway, refer to 427-105. For R10 hubs at the Max Bore condition, limit the number of start/stop cycles to 10 per hour unless long hubs are used.
- ④ Standard for T shaft hub is one setscrew over keyway; standard for R10 hub is two setscrews (one over keyway and one at 90° from keyway), Sizes 5-50R.
- ⑤ Flange fasteners are ISO Class 10.9 hex head cap screws for 5R thru 80R.
- ⑥ Maximum Inch Bore listed is for a standard square key. Larger bores, with a rectangular key, are available. Sizes 5R-50R are standard clearance fit with setscrew over keyway. Size 60R is standard interference fit with keyway, but no setscrew. For interference fit with setscrew over keyway, refer to 427-105.

R35 Standard Spacer Lengths

| Coupling Size | BE | Z | Usable Clearance Gap |
|---------------|--------|------|----------------------|
| 5R | 54,44 | 9,0 | 45,44 |
| | 60,00 | 9,0 | 51,00 |
| | 65,57 | 9,0 | 56,57 |
| | 73,49 | 9,0 | 64,49 |
| | 90,00 | 9,0 | 81,00 |
| 10R | 50,90 | 11,0 | 39,90 |
| | 62,00 | 11,0 | 51,00 |
| | 67,56 | 11,0 | 56,56 |
| | 75,51 | 11,0 | 64,51 |
| | 81,99 | 11,0 | 70,99 |
| | 90,00 | 11,0 | 79,00 |
| | 100,00 | 11,0 | 89,00 |
| 20R | 104,09 | 11,0 | 93,09 |
| | 45,08 | 15,0 | 30,08 |
| | 52,57 | 15,0 | 37,57 |
| | 63,75 | 15,0 | 48,75 |
| | 75,84 | 15,0 | 60,84 |
| | 79,50 | 15,0 | 64,50 |
| | 86,00 | 15,0 | 71,00 |
| | 90,00 | 15,0 | 75,00 |
| | 100,00 | 15,0 | 85,00 |
| | 108,07 | 15,0 | 93,07 |

| Coupling Size | BE | Z | Usable Clearance Gap |
|---------------|--------|------|----------------------|
| 30R | 59,24 | 17,0 | 42,24 |
| | 74,99 | 17,0 | 57,99 |
| | 87,99 | 17,0 | 70,99 |
| | 110,07 | 17,0 | 93,07 |
| | 127,00 | 17,0 | 110,00 |
| 40R | 87,01 | 21,0 | 66,01 |
| | 93,51 | 21,0 | 72,51 |
| | 113,50 | 21,0 | 92,50 |
| | 115,58 | 21,0 | 94,58 |
| | 127,00 | 21,0 | 106,00 |
| | 147,33 | 21,0 | 126,33 |
| 50R | 120,51 | 28,0 | 92,51 |
| | 122,57 | 28,0 | 94,57 |
| | 154,32 | 28,0 | 126,32 |
| | 157,50 | 28,0 | 129,50 |
| 60R | 161,53 | 35,2 | 126,33 |

NOTE: Other BE lengths available. Refer to the Factory.

- Taper-Lock bushing for R10 hub, see page 9.**
- QD bushing for R10 hub, see page 8.**
- Taper-Lock bushing for T shaft hub, see page 10.**

Bore Specifications and Keyways — All Rexnord Couplings

Recommended Hub Bores for Clearance & Interference Fit on Keyed Shafting Inch Shafts (Values are inch)

| Shaft Dia. | Clearance Fit | | Interference Fit | | Shaft Dia. | Clearance Fit | | Interference Fit | | Shaft Dia. | Interference Fit | |
|------------|---------------|-----------|------------------|--------------|------------|---------------|-----------|------------------|--------------|------------|------------------|--------------|
| | Hub Bore | Clearance | Hub Bore | Interference | | Hub Bore | Clearance | Hub Bore | Interference | | Hub Bore | Interference |
| +0.000 | +0.010 | .0000 | +0.0005 | .0000 | +0.000 | +0.015 | .0000 | +0.015 | .0000 | +0.000 | +0.015 | .0015 |
| -0.005 | -0.000 | .0015 | -0.0000 | .0010 | -0.010 | -0.000 | .0025 | -0.0000 | .0030 | -0.010 | -0.000 | .0040 |
| 0.5000 | 0.5000 | ↓ | 0.4990 | ↓ | 3.0625 | 3.0625 | ↓ | 3.0595 | ↓ | 6.7500 | 6.7460 | ↓ |
| 0.5625 | 0.5625 | ↓ | 0.5615 | ↓ | 3.1250 | 3.1250 | ↓ | 3.1220 | ↓ | 7.0000 | 6.9960 | ↓ |
| 0.6250 | 0.625 | ↓ | 0.6240 | ↓ | 3.1875 | 3.1875 | ↓ | 3.1845 | ↓ | +0.0000 | +0.015 | .0020 |
| 0.6875 | 0.6875 | ↓ | 0.6865 | ↓ | 3.2500 | 3.2500 | ↓ | 3.2470 | ↓ | -0.010 | -0.000 | .0050 |
| 0.7500 | 0.7500 | ↓ | 0.7490 | ↓ | 3.3125 | 3.3125 | ↓ | 3.3095 | ↓ | 7.250 | 7.2450 | ↓ |
| 0.8125 | 0.8125 | ↓ | 0.8115 | ↓ | 3.3750 | 3.3750 | ↓ | 3.3720 | ↓ | 7.500 | 7.4950 | ↓ |
| 0.8750 | 0.8750 | ↓ | 0.8740 | ↓ | 3.4375 | 3.4375 | ↓ | 3.4350 | ↓ | 7.750 | 7.7450 | ↓ |
| 0.9375 | 0.9375 | ↓ | 0.9365 | ↓ | 3.5000 | 3.5000 | ↓ | 3.4970 | ↓ | 8.000 | 7.9950 | ↓ |
| 1.0000 | 1.0000 | ↓ | 0.9990 | ↓ | 3.5625 | 3.5625 | ↓ | 3.5595 | ↓ | 8.250 | 8.2445 | .0025 |
| 1.0625 | 1.0625 | ↓ | 1.0615 | ↓ | 3.6250 | 3.6250 | ↓ | 3.6220 | ↓ | 8.500 | 8.4945 | .0055 |
| 1.1250 | 1.1250 | ↓ | 1.1240 | ↓ | 3.6875 | 3.6875 | ↓ | 3.6845 | ↓ | 8.750 | 8.7445 | ↓ |
| 1.1875 | 1.1875 | ↓ | 1.1865 | ↓ | 3.7500 | 3.7500 | ↓ | 3.7470 | ↓ | 9.000 | 8.9945 | ↓ |
| 1.2500 | 1.2500 | ↓ | 1.2490 | ↓ | 3.8125 | 3.8125 | ↓ | 3.8095 | ↓ | 9.250 | 9.2440 | .0030 |
| 1.3125 | 1.3125 | ↓ | 1.3115 | ↓ | 3.8750 | 3.8750 | ↓ | 3.8720 | ↓ | 9.500 | 9.4940 | .0060 |
| 1.3750 | 1.3750 | ↓ | 1.3740 | ↓ | 3.9375 | 3.9375 | ↓ | 3.9345 | ↓ | 9.750 | 9.7440 | ↓ |
| 1.4375 | 1.4375 | ↓ | 1.4365 | ↓ | 4.0000 | 4.0000 | ↓ | 3.9970 | ↓ | 10.000 | 9.9940 | ↓ |
| 1.5000 | 1.5000 | ↓ | 1.4990 | ↓ | +0.0000 | +0.015 | .0000 | +0.015 | .0010 | 10.250 | 10.2435 | .0035 |
| +0.0000 | +0.010 | .0000 | +0.010 | .0000 | -0.010 | -0.000 | .0025 | -0.0000 | .0035 | 10.500 | 10.4935 | .0065 |
| -0.010 | -0.000 | .0020 | -0.0000 | .0020 | 4.0625 | 4.0625 | ↓ | 4.0590 | ↓ | 10.750 | 10.7435 | ↓ |
| 1.5625 | 1.5625 | ↓ | 1.5605 | ↓ | 4.1250 | 4.1250 | ↓ | 4.1215 | ↓ | 11.000 | 10.9935 | ↓ |
| 1.6250 | 1.6250 | ↓ | 1.6230 | ↓ | 4.1875 | 4.1875 | ↓ | 4.1840 | ↓ | 11.250 | 11.2430 | .0040 |
| 1.6875 | 1.6875 | ↓ | 1.6855 | ↓ | 4.2500 | 4.2500 | ↓ | 4.2465 | ↓ | 11.500 | 11.4930 | .0070 |
| 1.7500 | 1.7500 | ↓ | 1.7480 | ↓ | 4.3125 | 4.3125 | ↓ | 4.3090 | ↓ | 11.750 | 11.7430 | ↓ |
| 1.8125 | 1.8125 | ↓ | 1.8105 | ↓ | 4.3750 | 4.3750 | ↓ | 4.3715 | ↓ | 12.000 | 11.9930 | ↓ |
| 1.8750 | 1.8750 | ↓ | 1.8730 | ↓ | 4.5000 | 4.5000 | ↓ | 4.4965 | ↓ | 12.500 | 12.4925 | .0045 |
| 1.9375 | 1.9375 | ↓ | 1.9355 | ↓ | 4.5625 | 4.5625 | ↓ | 4.5590 | ↓ | 13.000 | 12.9925 | .0075 |
| 2.0000 | 2.0000 | ↓ | 1.9980 | ↓ | 4.6250 | 4.6250 | ↓ | 4.6215 | ↓ | +0.0000 | +0.020 | .0050 |
| +0.0000 | +0.015 | .0000 | +0.010 | .0000 | 4.6875 | 4.6875 | ↓ | 4.6840 | ↓ | -0.015 | -0.000 | .0085 |
| -0.010 | -0.000 | .0025 | -0.0000 | .0020 | 4.7500 | 4.7500 | ↓ | 4.7465 | ↓ | 13.500 | 13.4915 | ↓ |
| 2.0625 | 2.0625 | ↓ | 2.0605 | ↓ | 4.8125 | 4.8125 | ↓ | 4.8090 | ↓ | 14.000 | 13.9915 | ↓ |
| 2.1250 | 2.1250 | ↓ | 2.1230 | ↓ | 4.8750 | 4.8750 | ↓ | 4.8715 | ↓ | 14.500 | 14.4910 | .0055 |
| 2.1875 | 2.1875 | ↓ | 2.1855 | ↓ | 4.9375 | 4.9375 | ↓ | 4.9340 | ↓ | 15.000 | 14.9910 | .0090 |
| 2.2500 | 2.2500 | ↓ | 2.2480 | ↓ | 5.0000 | 5.0000 | ↓ | 4.9965 | ↓ | +0.0000 | +0.025 | .0060 |
| 2.3125 | 2.3125 | ↓ | 2.3105 | ↓ | 5.0625 | 5.0625 | ↓ | 5.0585 | .0015 | -0.015 | -0.000 | .0100 |
| 2.3750 | 2.3750 | ↓ | 2.3730 | ↓ | 5.1250 | 5.1250 | ↓ | 5.1210 | .0040 | 15.500 | 15.4900 | ↓ |
| 2.4375 | 2.4375 | ↓ | 2.4355 | ↓ | 5.1875 | 5.1875 | ↓ | 5.1835 | ↓ | 16.000 | 15.9900 | ↓ |
| 2.5000 | 2.5000 | ↓ | 2.4980 | ↓ | 5.2500 | 5.2500 | ↓ | 5.2460 | ↓ | 16.500 | 16.4895 | .0065 |
| 2.5625 | 2.5625 | ↓ | 2.5605 | ↓ | 5.3125 | 5.3125 | ↓ | 5.3085 | ↓ | 17.000 | 16.9895 | .0105 |
| 2.6250 | 2.6250 | ↓ | 2.6230 | ↓ | 5.3750 | 5.3750 | ↓ | 5.3710 | ↓ | 17.500 | 17.4890 | .0070 |
| 2.6875 | 2.6875 | ↓ | 2.6855 | ↓ | 5.4375 | 5.4375 | ↓ | 5.4335 | ↓ | 18.000 | 17.9890 | .0110 |
| 2.7500 | 2.7500 | ↓ | 2.7480 | ↓ | 5.5000 | 5.5000 | ↓ | 5.4960 | ↓ | 18.500 | 18.4890 | ↓ |
| 2.8125 | 2.8125 | ↓ | 2.8105 | ↓ | 5.5625 | 5.5625 | ↓ | 5.5585 | ↓ | 19.000 | 18.9890 | ↓ |
| 2.8750 | 2.8750 | ↓ | 2.8730 | ↓ | 5.6250 | 5.6250 | ↓ | 5.6210 | ↓ | 19.500 | 19.4880 | .0080 |
| 2.9375 | 2.9375 | ↓ | 2.9355 | ↓ | 5.6875 | 5.6875 | ↓ | 5.6835 | ↓ | 20.000 | 19.9880 | .0120 |
| 3.0000 | 3.0000 | ↓ | 2.9980 | ↓ | 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 | ↓ | | | |

NOTE: Consult Rexnord for all keyless bore fits.

Recommended Commercial Keys for Bores with One Key (in/mm)

| Inches (Per ANSI B17.1 Standard) | | | | | | | | | | | |
|-------------------------------------|---------|---------------|-----------|---------|---------------|-----------|---------|---------------|-----------|---------|---------------|
| Shaft Dia | | Key | Shaft Dia | | Key | Shaft Dia | | Key | Shaft Dia | | Key |
| Over | Through | | Over | Through | | Over | Through | | Over | Through | |
| 0.438 | 0.562 | 0.125 x 0.125 | 1.750 | 2.250 | 0.500 x 0.500 | 4.500 | 5.500 | 1.250 x 1.250 | 11.000 | 13.000 | 3.000 x 2.000 |
| 0.562 | 0.875 | 0.188 x 0.188 | 2.250 | 2.750 | 0.625 x 0.625 | 5.500 | 6.500 | 1.500 x 1.500 | 13.000 | 15.000 | 3.500 x 2.500 |
| 0.875 | 1.250 | 0.250 x 0.250 | 2.750 | 3.250 | 0.750 x 0.750 | 6.500 | 7.500 | 1.750 x 1.500 | 15.000 | 18.000 | 4.000 x 3.000 |
| 1.250 | 1.375 | 0.312 x 0.312 | 3.250 | 3.750 | 0.875 x 0.875 | 7.500 | 9.000 | 2.000 x 1.500 | 18.000 | 20.000 | 5.000 x 3.500 |
| 1.375 | 1.750 | 0.375 x 0.375 | 3.750 | 4.500 | 1.000 x 1.000 | 9.000 | 11.000 | 2.500 x 1.750 | - | - | - |
| Millimeters (Per ISO R773 Standard) | | | | | | | | | | | |
| 6 | 8 | 2 x 2 | 38 | 44 | 12 x 8 | 95 | 110 | 28 x 16 | 260 | 290 | 63 x 32 |
| 8 | 10 | 3 x 3 | 44 | 50 | 14 x 9 | 110 | 130 | 32 x 18 | 290 | 330 | 70 x 36 |
| 10 | 12 | 4 x 4 | 50 | 58 | 16 x 10 | 130 | 150 | 36 x 20 | 330 | 380 | 80 x 40 |
| 12 | 17 | 5 x 5 | 58 | 65 | 18 x 11 | 150 | 170 | 40 x 22 | 380 | 440 | 90 x 45 |
| 17 | 22 | 6 x 6 | 65 | 75 | 20 x 12 | 170 | 200 | 45 x 25 | 440 | 500 | 100 x 50 |
| 22 | 30 | 8 x 7 | 75 | 85 | 22 x 14 | 200 | 230 | 50 x 28 | - | - | - |
| 30 | 38 | 10 x 8 | 85 | 95 | 25 x 14 | 230 | 260 | 56 x 32 | - | - | - |

Bore Specifications and Keyways — All Rexnord Couplings

Recommended Bore Tolerances Falk Steel Coupling Hubs — Millimeters

| 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 |

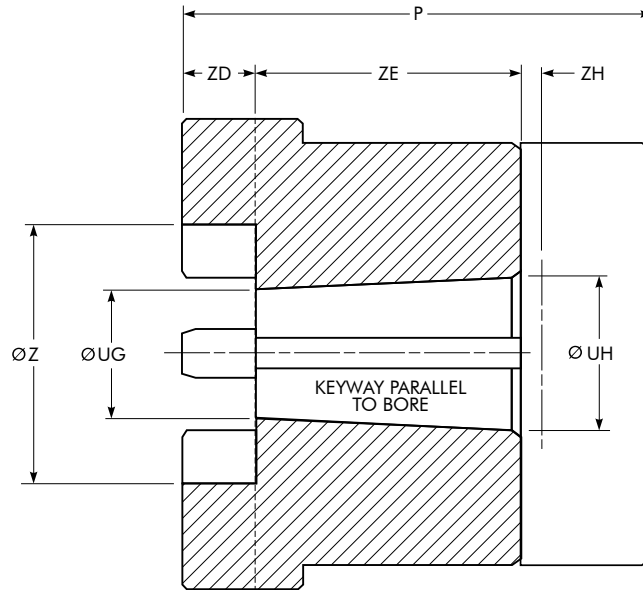
① Per DIN 748 — Differs from ISO/R775.

Recommended Bores for Metric Shafts per ISO/R775-1969 (ANSI/AGMA 9112) (mm)

| Shaft Diameter | Clearance Fit | | Transitional Fit | | Interference Fit | |
|----------------|--------------------------|----------------|--------------------------|----------------|--------------------------|----------------|
| | Hub Bore | Fit ② | Hub Bore | Fit ② | Hub Bore | Fit ② |
| j6 | F7 | + 0,008 | H7 | - 0,008 | M6 | - 0,023 |
| mm | + 0,008 / - ,003 | + 0,037 | + 0,000 / + 0,018 | + 0,021 | - ,015 / - ,004 | - 0,001 |
| 12 | 12,008/11,997 | ↓ | 12,000/12,018 | ↓ | 11,985/11,996 | ↓ |
| 14 | 14,008/13,997 | ↓ | 14,016/14,034 | ↓ | 13,985/13,996 | ↓ |
| 16 | 16,008/15,997 | ↓ | 16,016/16,034 | ↓ | 15,985/15,996 | ↓ |
| 18 | 18,008/17,997 | ↓ | 18,016/18,034 | ↓ | 17,985/17,996 | ↓ |
| j6 | F7 | + 0,011 | H7 | - 0,009 | M6 | - 0,026 |
| mm | + 0,009 / - 0,004 | + 0,045 | + 0,000 / + 0,021 | + 0,025 | - 0,017 / - 0,004 | + 0,000 |
| 19 | 19,009/18,996 | ↓ | 19,000/19,021 | ↓ | 18,983/18,996 | ↓ |
| 20 | 20,009/19,996 | ↓ | 20,000/20,021 | ↓ | 20,983/20,996 | ↓ |
| 22 | 22,009/21,996 | ↓ | 22,000/22,021 | ↓ | 21,983/21,996 | ↓ |
| 24 | 24,009/23,996 | ↓ | 24,000/24,021 | ↓ | 23,983/23,996 | ↓ |
| 25 | 25,009/24,996 | ↓ | 25,000/25,021 | ↓ | 24,983/24,996 | ↓ |
| 28 | 28,009/27,996 | ↓ | 28,000/28,021 | ↓ | 27,983/27,996 | ↓ |
| 30 | 30,009/29,996 | ↓ | 30,000/30,021 | ↓ | 29,983/29,996 | ↓ |
| >30 | k6 | F7 | H7 | - 0,018 | K6 | - 0,031 |
| mm | + 0,018 / + ,002 | + 0,050 | + 0,000 / + 0,025 | + 0,023 | - 0,013 / + 0,003 | + 0,001 |
| 32 | 32,018/32,002 | ↓ | 32,000/32,025 | ↓ | 31,987/32,003 | ↓ |
| 35 | 35,018/35,002 | ↓ | 35,000/35,025 | ↓ | 34,987/35,003 | ↓ |
| 38 | 38,018/38,002 | ↓ | 38,000/38,025 | ↓ | 37,987/38,003 | ↓ |
| 40 | 40,018/40,002 | ↓ | 40,000/40,025 | ↓ | 39,987/40,003 | ↓ |
| 42 | 42,018/42,002 | ↓ | 42,000/42,025 | ↓ | 41,987/42,003 | ↓ |
| 45 | 45,018/45,002 | ↓ | 45,000/45,025 | ↓ | 44,987/45,003 | ↓ |
| 48 | 48,018/48,002 | ↓ | 48,000/48,025 | ↓ | 47,987/48,003 | ↓ |
| 50 | 50,018/50,002 | ↓ | 50,000/50,025 | ↓ | 49,987/50,003 | ↓ |
| >50 | m6 | F7 | H7 | - 0,030 | K7 | - 0,051 |
| mm | + 0,030 / + 0,011 | + 0,060 | + 0,000 / + 0,030 | + 0,019 | - 0,021 / + 0,009 | - 0,002 |
| 55 | 55,030/55,011 | ↓ | 55,000/55,030 | ↓ | 54,979/55,009 | ↓ |
| 56 | 56,030/56,011 | ↓ | 56,000/56,030 | ↓ | 55,979/56,009 | ↓ |
| 60 | 60,030/60,011 | ↓ | 60,000/60,030 | ↓ | 59,979/60,009 | ↓ |
| 63 | 63,030/63,011 | ↓ | 63,000/63,030 | ↓ | 62,979/63,009 | ↓ |
| 65 | 65,030/65,011 | ↓ | 65,000/65,030 | ↓ | 64,979/65,009 | ↓ |
| 70 | 70,030/70,011 | ↓ | 70,000/70,030 | ↓ | 69,979/70,009 | ↓ |
| 71 | 71,030/71,011 | ↓ | 71,000/71,030 | ↓ | 70,979/71,009 | ↓ |
| 75 | 75,030/75,011 | ↓ | 75,000/75,030 | ↓ | 74,979/75,009 | ↓ |
| 80 | 80,030/80,011 | ↓ | 80,000/80,030 | ↓ | 79,979/80,009 | ↓ |
| >80 | m6 | F7 | H7 | - 0,035 | M7 | - 0,070 |
| mm | + 0,035 / + 0,013 | + 0,071 | + 0,000 / + 0,035 | + 0,022 | - 0,035 / + 0,000 | - 0,013 |
| 85 | 85,035/85,013 | ↓ | 85,000/85,035 | ↓ | 84,965/85,000 | ↓ |
| 90 | 90,035/90,013 | ↓ | 90,000/90,035 | ↓ | 89,965/90,000 | ↓ |
| 95 | 95,035/95,013 | ↓ | 95,000/95,035 | ↓ | 94,965/95,000 | ↓ |
| 100 | 100,035/100,013 | ↓ | 100,000/100,035 | ↓ | 99,965/100,000 | ↓ |
| >100 | m6 | F7 | H7 | - 0,040 | P7 | - 0,094 |
| mm | + 0,035 / + 0,013 | + 0,071 | + 0,000 / + 0,035 | + 0,025 | - 0,059 / - 0,024 | - 0,037 |
| 110 | 110,035/110,013 | ↓ | 110,000/110,035 | ↓ | 109,941/109,976 | ↓ |
| 120 | 120,035/120,013 | ↓ | 120,000/120,035 | ↓ | 119,941/119,976 | ↓ |
| >120 | m6 | F7 | H7 | - 0,040 | P7 | - 0,108 |
| mm | + 0,040 / + 0,015 | + 0,083 | + 0,000 / + 0,040 | + 0,025 | - 0,068 / - 0,028 | - 0,043 |
| 125 | 125,040/125,015 | ↓ | 125,000/125,040 | ↓ | 124,932/124,972 | ↓ |
| 130 | 130,040/130,015 | ↓ | 130,000/130,040 | ↓ | 129,932/129,972 | ↓ |
| 140 | 140,040/140,015 | ↓ | 140,000/140,040 | ↓ | 139,932/139,972 | ↓ |
| 150 | 150,040/150,015 | ↓ | 150,000/150,040 | ↓ | 149,932/149,972 | ↓ |
| 160 | 160,040/160,015 | ↓ | 160,000/160,040 | ↓ | 159,932/159,972 | ↓ |
| 170 | 170,040/170,015 | ↓ | 170,000/170,040 | ↓ | 169,932/169,972 | ↓ |
| 180 | 180,040/180,015 | ↓ | 180,000/180,040 | ↓ | 179,932/179,972 | ↓ |
| >180 | m6 | F7 | H7 | - 0,046 | P7 | - 0,125 |
| mm | + 0,046 / + 0,017 | + 0,096 | + 0,000 / + 0,046 | + 0,029 | - 0,079 / - 0,033 | - 0,050 |

② Positive values are clearance, negative values are interference. For reference only.

Mill Motor Selection



Standard AISE AC & DC Mill Motor Coupling Selections (mm)

| Motor Frame Sizes | | | Coupling Size | Torque Rating (Nm) | Ø UG | Ø UH | Ø Z | Keyway | ZD | ZE | ZH +.xxx -.000 |
|-------------------|-----------|------------|---------------|--------------------|-------|--------|------|-------------|-------|-------|----------------------|
| 602 | 802 A,B,C | AC 1, 2, 4 | 40R ① | 1028 | 36,53 | 44,45 | 80,8 | 12,7 X 6,35 | 21,08 | 76,2 | 0,61 |
| | | | 50R | 2508 | | | 106 | 12,7 X 6,35 | 27,94 | | |
| 603, 604 | 803, 804 | - | 50R | 2508 | 41,53 | 50,8 | 106 | 12,7 X 6,35 | 27,94 | 88,9 | 0,74 |
| | | | 60R | 4011 | | | 135 | 12,7 X 6,35 | 35,31 | | |
| 606 | 806 | AC 8, 12 | 50R ① | 2508 | 52,91 | 63,5 | 106 | 12,7 X 6,35 | 27,94 | 101,6 | 0,74 |
| | | | 60R | 4011 | | | 135 | 12,7 X 6,35 | 35,31 | | |
| | | | 70R | 8011 | | | 160 | 12,7 X 6,35 | 39,62 | | |
| 608 | 808 | - | 60R | 4011 | 64,28 | 76,2 | 135 | 19,1 X 6,35 | 35,31 | 114,3 | 0,74 |
| | | | 70R | 8011 | | | 160 | 19,1 X 6,35 | 39,62 | | |
| | | | 80R | 15027 | | | 190 | 19,1 X 6,35 | 45,47 | | |
| 610 | 810 | AC 18 | 70R | 8011 | 70,64 | 82,55 | 160 | 19,1 X 6,35 | 39,62 | 114,3 | 0,86 |
| | | | 80R | 15027 | | | 190 | 19,1 X 6,35 | 45,47 | | |
| 612 | 812 | AC 25, 30 | 70R | 8011 | 78,84 | 92,08 | 160 | 19,1 X 6,35 | 39,62 | 127 | 0,86 |
| | | | 80R | 15027 | | | 190 | 19,1 X 6,35 | 45,47 | | |
| 614 | 814 | AC 40, 50 | 80R | 15027 | 94,72 | 107,95 | 190 | 25,4 X 9,53 | 45,47 | 127 | 0,86 |

Taper & Counter Bore Limitations (mm)

| Coupling Size | P Max | Ø UG Min | Ø UH Max | Ø Z Max | ZD Max | ZE Min | Keyway ② |
|---------------|--------|----------|----------|---------|--------|--------|---------------|
| 5R | 60,96 | 12,7 | 38,1 | 38,99 | 9,19 | 21,01 | 9,52 x 0 4,78 |
| 10R | 78,99 | 12,7 | 44,45 | 46,0 | 11,2 | 25,4 | 9,52 x 0 4,78 |
| 20R | 104,9 | 19,05 | 57,15 | 58,7 | 15,19 | 27,0 | 12,7 X 6,35 |
| 30R | 133,1 | 25,4 | 63,5 | 65 | 17,2 | 34,01 | 15,88 x 7,95 |
| 40R | 154,94 | 28,58 | 79,38 | 80,8 | 21,21 | 34,01 | 19,1 x 4,78 |
| 50R | 182,12 | 28,58 | 104,78 | 105,99 | 28,19 | 46,0 | 25,4 x 12,7 |
| 60R | 185,17 | 31,75 | 133,35 | 135,0 | 35,41 | 54,0 | 31,75 x 15,88 |
| 70R | 219,71 | 38,1 | 155,58 | 159,99 | 39,9 | 57,0 | 38,1 x 19,1 |
| 80R | 255,52 | 38,1 | 184,15 | 189,99 | 45,59 | 66,50 | 44,45 x 22,23 |

① Must use "standard" socket on mill motor nut. "Impact" socket will not fit.

② Keyway shown is for maximum bore with square key.

Type R10 Mill Motor Hubs

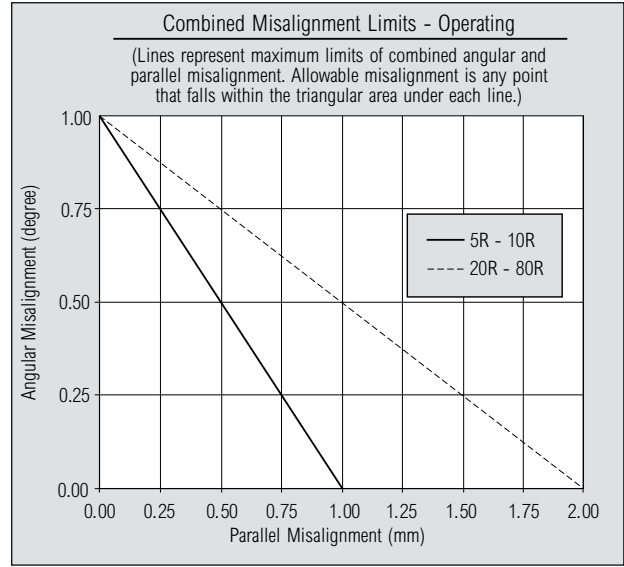
| Mill Motor Frame Size | | | R10 Flex Hubs | | | | | | | | |
|-----------------------|-------------|-------------|---------------|-----|-----|-----|--------------------|-----|--------------------|-----|-----|
| | | | 5R | 10R | 20R | 30R | 40R | 50R | 60R | 70R | 80R |
| 602 | 802 A, B, C | AC 1, 2 & 4 | - | - | - | - | X | X | - | - | - |
| 603 604 | 803 804 | | - | - | - | - | Consult Rexnord | X | X | - | - |
| 606 | 806 | AC 8 & 12 | - | - | - | - | - | X | X | X | - |
| 608 | 808 | | - | - | - | - | - | - | X | X | X |
| 610 | 810 | AC 18 | - | - | - | - | - | - | Consult Rexnord | X | X |
| 612 | 812 | AC 25 & 30 | - | - | - | - | - | - | - | X | X |
| 614 | 814 | AC 40 & 50 | - | - | - | - | - | - | - | X | X |

Misalignment Capacity, Mass & WR²

Installation & Operating Misalignment Capacity (See graph for combined limits)

| Coupling Size | Installation Limits | | Operating Limits | |
|---------------|----------------------|------------------|----------------------|------------------|
| | Parallel Offset (mm) | Angular (degree) | Parallel Offset (mm) | Angular (degree) |
| 5R | 0,50 | 0,25 | 1,00 | 1,00 |
| 10R | 0,50 | 0,25 | 1,00 | 1,00 |
| 20R | 1,00 | 0,25 | 2,00 | 1,00 |
| 30R | 1,00 | 0,25 | 2,00 | 1,00 |
| 40R | 1,00 | 0,25 | 2,00 | 1,00 |
| 50R | 1,00 | 0,25 | 2,00 | 1,00 |
| 60R | 1,00 | 0,25 | 2,00 | 1,00 |
| 70R | 1,00 | 0,25 | 2,00 | 1,00 |
| 80R | 1,00 | 0,25 | 2,00 | 1,00 |

| 70D Black Insert | | |
|------------------|--------|----------|
| Used With | Torque | Temp (C) |
| Nylon Cover | + 25% | 107 |
| Steel Cover | + 35% | 121 |



Mass & WR²

| R10 Mass | | | | | | |
|---------------|--------------|------------------|------------------|------------------------|--------------------------|--------------------------|
| Coupling Size | Element (kg) | Nylon Cover (kg) | Steel Cover (kg) | R10 Hub (No Bore) (kg) | Total w/Nylon Cover (kg) | Total w/Steel Cover (kg) |
| 5R | 0,032 | 0,031 | 0,17 | 0,64 | 1,34 | 1,48 |
| 10R | 0,059 | 0,050 | 0,28 | 1,19 | 2,49 | 2,71 |
| 20R | 0,19 | 0,13 | 0,59 | 2,65 | 5,61 | 6,07 |
| 30R | 0,29 | 0,17 | 0,83 | 4,46 | 9,37 | 10,0 |
| 40R | 0,59 | 0,39 | 1,42 | 8,03 | 17,0 | 18,1 |
| 50R | 1,22 | 0,77 | 2,64 | 16,9 | 35,7 | 37,6 |
| 60R | 1,85 | - | 3,31 | 30,4 | - | 66,0 |
| 70R | 2,80 | - | 4,63 | 51,7 | - | 111 |
| 80R | 4,63 | - | 6,62 | 77,1 | - | 165 |

| R10 WR ² ② | | | | | | |
|-----------------------|------------------------------|----------------------------------|----------------------------------|--|--|--|
| Coupling Size | Element (kg-m ²) | Nylon Cover (kg-m ²) | Steel Cover (kg-m ²) | R10 Hub (No Bore) (kg-m ²) | Total w/Nylon Cover (kg-m ²) | Total w/Steel Cover (kg-m ²) |
| 5R | 0,000026 | 0,000041 | 0,00022 | 0,00031 | 0,00068 | 0,00086 |
| 10R | 0,000067 | 0,000094 | 0,00051 | 0,00082 | 0,0018 | 0,0022 |
| 20R | 0,00040 | 0,00046 | 0,0021 | 0,0031 | 0,0070 | 0,0086 |
| 30R | 0,00080 | 0,00082 | 0,0039 | 0,0068 | 0,015 | 0,018 |
| 40R | 0,0026 | 0,0030 | 0,010 | 0,019 | 0,044 | 0,051 |
| 50R | 0,0089 | 0,0093 | 0,031 | 0,072 | 0,16 | 0,18 |
| 60R | 0,020 | - | 0,055 | 0,18 | - | 0,44 |
| 70R | 0,041 | - | 0,10 | 0,44 | - | 1,02 |
| 80R | 0,098 | - | 0,22 | 0,86 | - | 2,04 |

| R31/R35 WR ² Values ① | | | | | | | | | |
|----------------------------------|---------------|----------------|--|-------------|---|----------------|--|-------------|---|
| Coupling Size | T31 Shaft Hub | R31 Assembly ② | | | | R35 Assembly ③ | | | |
| | | Min BE (mm) | WR ² at Min BE (kg-m ²) | | WR ² (kg-m ²) per mm | Min BE (mm) | WR ² at Min BE (kg-m ²) | | WR ² (kg-m ²) per mm |
| | | | Nylon Cover | Steel Cover | | | Nylon Cover | Steel Cover | |
| 5R | 1020 | 81,0 | 0,00220 | 0,00239 | 0,0000040 | 50,5 | 0,00144 | 0,00162 | 0,0000040 |
| 10R | 1030 | 89,0 | 0,00398 | 0,00439 | 0,0000048 | 59,7 | 0,00281 | 0,00322 | 0,0000048 |
| 20R | 1040 | 89,0 | 0,0115 | 0,0131 | 0,000014 | 76,5 | 0,0097 | 0,0112 | 0,000014 |
| 30R | 1050 | 111,1 | 0,0212 | 0,0241 | 0,000023 | 87,6 | 0,0193 | 0,0222 | 0,000023 |
| 40R | 1070 | 127,0 | 0,0635 | 0,0711 | 0,000048 | 88,6 | 0,0538 | 0,0612 | 0,000048 |
| 50R | 1080 | 165,2 | 0,169 | 0,191 | 0,00012 | 113,0 | 0,165 | 0,187 | 0,00012 |
| 60R | 1090 | 200,0 | - | 0,439 | 0,00023 | 137,7 | - | 0,439 | 0,00023 |
| 70R | 1100 | 223,6 | - | 0,869 | 0,00047 | 154,0 | - | 0,945 | 0,00047 |
| 70R | 1110 | 223,6 | - | 1,06 | 0,00047 | 154,0 | - | 1,04 | 0,00047 |
| 80R | 1120 | 248,5 | - | 2,24 | 0,00071 | 172,6 | - | 2,11 | 0,00071 |
| 80R | 1130 | 254,1 | - | 2,81 | 0,0017 | 175,4 | - | 2,40 | 0,0017 |

① WR² values are based on hubs with no bore.

② For R31 Mass, refer to page 10.

③ For R35 Mass, refer to page 11.



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