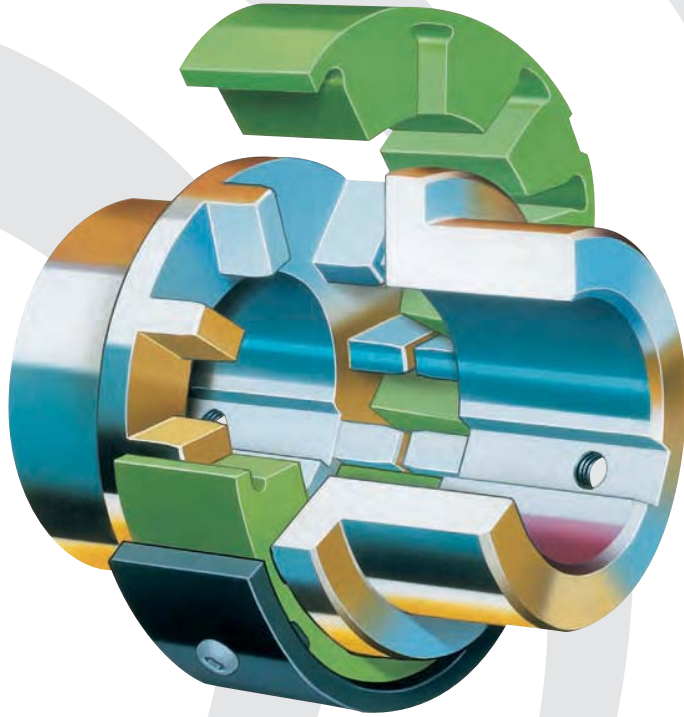


Falk™ Wrapflex® Elastomer Couplings | Talk About Simple! (English-Metric)



Falk™ Wrapflex® Elastomer Couplings Now There's a Simple Way to Increase Productivity

- 12 sizes
- Torque Range: 133,000 lb.in. (15 028 Nm)
 - Bore Capacity: 7¼" (186 mm)
 - "Replace in Place"
 - Non-Lubricated/Low Maintenance
 - 3-Year Heavy-Duty Warranty

Ever think that keeping your production lines running more profitably could be as simple as replacing a light bulb or opening a can with a pop-top?

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, further reducing downtime.

Available in close-coupled and spacer designs, Wrapflex couplings accommodate up to 7¼" (186 mm) shafts and torque loads up to 133,000 lb.in. (15 028 Nm).

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

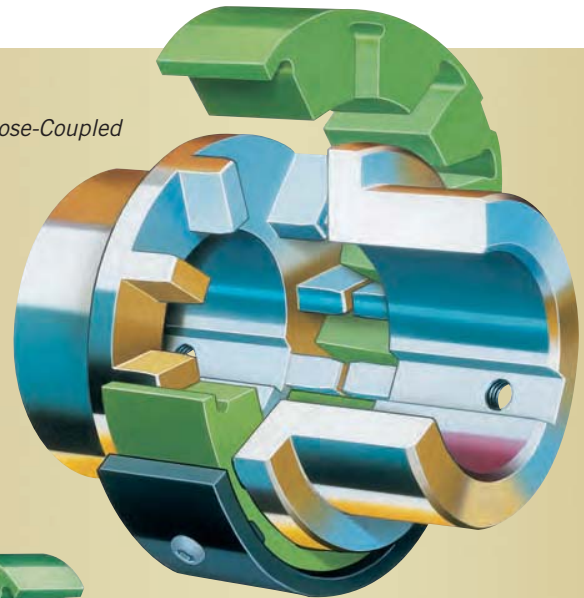
Low Initial Cost

- Advanced manufacturing methods and innovative material allow us to offer you higher capacity ratings at a more competitive price than ever before possible.
- Initial investment protected by the industry's first, standard 3-Year Heavy-Duty Warranty.

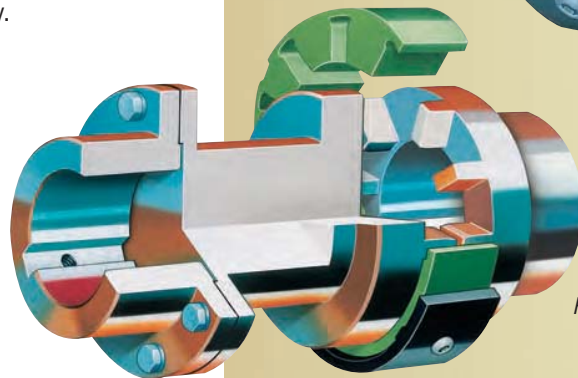
Easy to Install

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

R10 Close-Coupled



R35 Half Spacer





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 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.

Safety First

- Two stainless steel button-head capscrews, 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 Q.D. and TaperLock bushings are available off-the-shelf from our worldwide distribution network.

Replace in Place

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

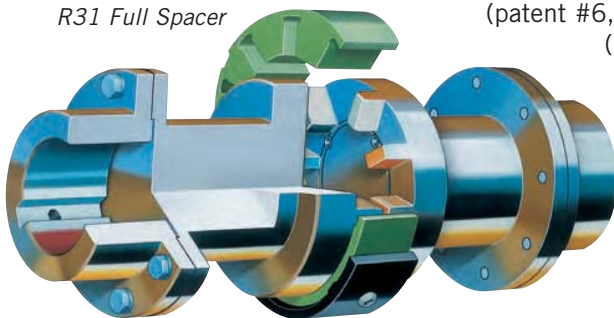
No Maintenance Needed

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

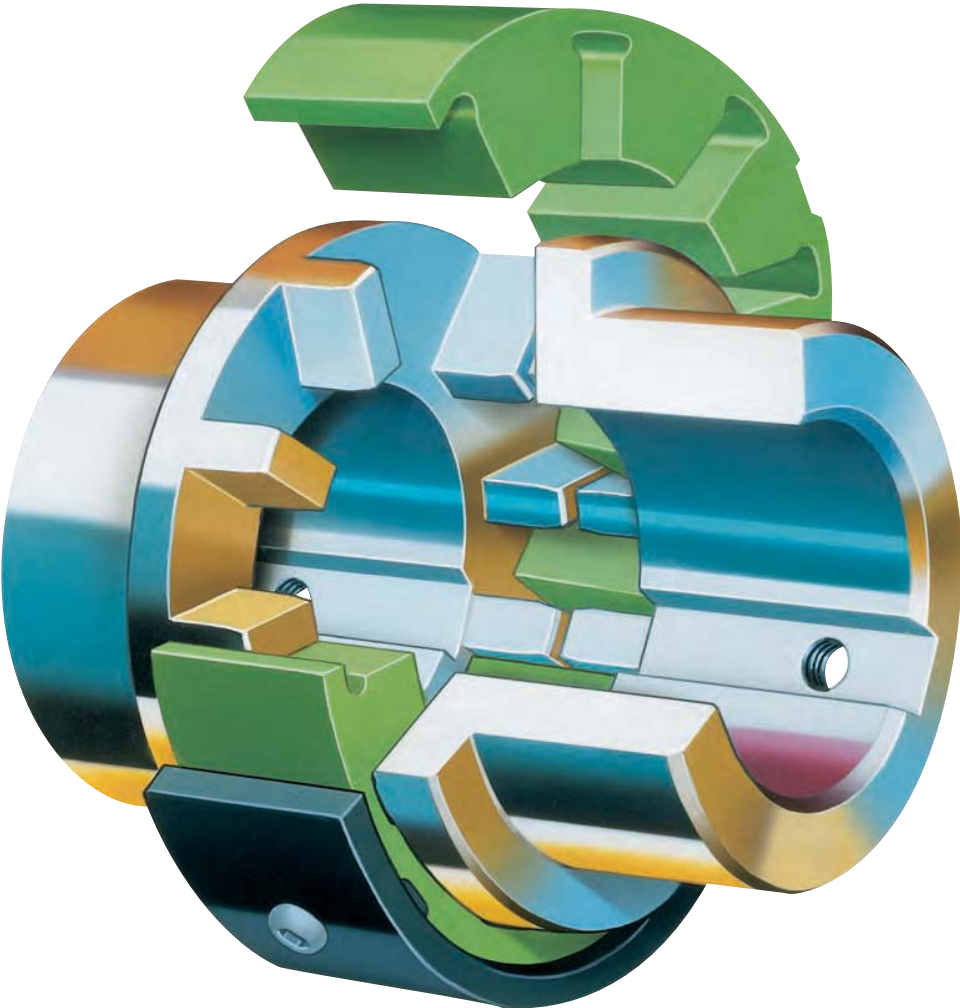
Protects Equipment

- Compound root radius on inner corners of flex element (patent #6,342,011) act as a stress relief for longer element life.
- Hub teeth machined with special nose radius (patent #6,342,011) for better tooth-to-tooth contact (Sizes 5 to 80 only).
- Special hub feature to reduce reaction loads transferred to connected equipment (patent #6,648,763).

R31 Full Spacer



Falk™ Wrapflex® Selection Guide



Selection Guide M491-110, July 2007

Wrapflex Quick Selection Method — Close Coupled R10

1. Determine Service Factor — Refer to Table 1 or 4 for motor or turbine driven applications. See Table 5 for Engine Drives.
2. Determine Equivalent Power.
Refer to Table 2 — Under the actual kW required and opposite the service factor, read the Equivalent Power.
3. Determine Coupling Size.
- A. Refer to Table 3 — Trace horizontally from the required speed to a kW value equal to or larger than the Equivalent Power determined in Step 2. Read the coupling size at the top of the column.
- B. Check shaft diameters against coupling maximum bores shown in Table 3 and on Page 6 for the correct coupling size selected.
- C. In Table 3, check the required speed against the allowable speed shown below the correct coupling size selected.
4. Determine application/design shaft spacing and check application dimension requirements against selected coupling type dimensions shown on Pages 8 thru 12. Confirm sufficient clearances for coupling.
5. 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 Extuders, 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 † | 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 | 200 | 220 | 250 | 300 | 330 |
| 1.00 | 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 | 200 | 220 | 250 | 300 | 330 |
| 1.25 | 0.31 | 0.46 | 0.69 | 0.9 | 1.4 | 1.9 | 2.8 | 3.8 | 5 | 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 | 250 | 275 | 313 | 375 | 413 |
| 1.50 | 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 | 300 | 330 | 375 | 450 | 495 |
| 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 | 350 | 385 | 438 | 525 | 578 |
| 2.00 | 0.50 | 0.74 | 1.1 | 1.5 | 2.2 | 3.0 | 4.4 | 6.0 | 8.0 | 11.0 | 15.0 | 18.4 | 22.0 | 30.0 | 37.0 | 44.0 | 60.0 | 74.0 | 90.0 | 110 | 150 | 180 | 220 | 264 | 300 | 370 | 400 | 440 | 500 | 600 | 660 |
| 2.50 | 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 | 55.0 | 75.0 | 92.5 | 113 | 138 | 188 | 225 | 275 | 330 | 375 | 463 | 500 | 550 | 625 | 750 | 825 |
| 3.00 | 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 | 66.0 | 90.0 | 111 | 135 | 165 | 225 | 270 | 330 | 396 | 450 | 555 | 600 | 660 | 750 | 900 | 990 |
| 3.50 | 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 | 77.0 | 105 | 130 | 158 | 193 | 263 | 315 | 385 | 462 | 525 | 648 | 700 | 770 | 875 | 1050 | 1155 |

† For service factors not listed. Equivalent Power = Actual kW x Service Factor.

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TABLE 3 — Falk “Wrapflex” Coupling Quick Selection Chart

| | 2R | 3R | 4R | 5R | 10R | 20R | 30R | 40R | 50R | 60R | 70R | 80R |
|----------------------|-------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Max Bore (mm) | 22.00 | 28.00 | 35.00 | 35.00 | 42.00 | 55.00 | 60.00 | 75.00 | 100.00 | 133.00 | 156.00 | 186.00 |
| Max Speed | 4500 rpm | 4500 rpm | 4500 rpm | 4500 rpm | 4500 rpm | 4500 rpm | 4500 rpm | 3600 rpm | 3000 rpm | 2500 rpm | 2100 rpm | 1800 rpm |
| Torque (Nm) | 11 | 34 | 56 | 62 | 130 | 320 | 520 | 1030 | 2500 | 4000 | 8000 | 15000 |
| kW/rpm | 0.0012 | 0.0036 | 0.0059 | 0.0065 | 0.0136 | 0.0335 | 0.0545 | 0.108 | 0.262 | 0.419 | 0.838 | 1.57 |
| RPM | kW Ratings | | | | | | | | | | | |
| 4500 | 7.14 | 21.4 | 35.7 | 39.3 | 82.1 | 200 | 328 | | | | | |
| 3600 | 5.71 | 17.1 | 28.6 | 31.4 | 65.7 | 160 | 263 | 520 | | | | |
| 3000 | 4.76 | 14.3 | 23.8 | 26.2 | 54.7 | 133 | 219 | 433 | 1057 | | | |
| 2500 | 3.97 | 11.9 | 19.8 | 21.8 | 45.6 | 111 | 182 | 361 | 881 | 1408 | | |
| 2100 | 3.33 | 10.0 | 16.7 | 18.3 | 38.3 | 93.3 | 153 | 303 | 740 | 1183 | 2362 | |
| 1800 | 2.86 | 8.57 | 14.3 | 15.7 | 32.8 | 80.0 | 131 | 260 | 634 | 1014 | 2025 | 3798 |
| 1750 | 2.78 | 8.33 | 13.9 | 15.3 | 31.9 | 77.7 | 128 | 253 | 616 | 986 | 1969 | 3693 |
| 1450 | 2.30 | 6.90 | 11.5 | 12.7 | 26.5 | 64.4 | 106 | 209 | 511 | 817 | 1631 | 3060 |
| 1170 | 1.86 | 5.57 | 9.28 | 10.2 | 21.3 | 52.0 | 85.4 | 169 | 412 | 659 | 1316 | 2469 |
| 1000 | 1.59 | 4.76 | 7.93 | 8.73 | 18.2 | 44.4 | 73.0 | 144 | 352 | 563 | 1125 | 2110 |
| 870 | 1.38 | 4.14 | 6.90 | 7.59 | 15.9 | 38.7 | 63.5 | 126 | 306 | 490 | 979 | 1836 |
| 720 | 1.14 | 3.43 | 5.71 | 6.28 | 13.1 | 32.0 | 52.6 | 104 | 254 | 406 | 810 | 1519 |
| 650 | 1.03 | 3.09 | 5.16 | 5.67 | 11.9 | 28.9 | 47.4 | 93.9 | 229 | 366 | 731 | 1372 |
| 580 | 0.920 | 2.76 | 4.60 | 5.06 | 10.6 | 25.8 | 42.3 | 83.7 | 204 | 327 | 652 | 1224 |
| 520 | 0.825 | 2.48 | 4.13 | 4.54 | 9.49 | 23.1 | 38.0 | 75.1 | 183 | 293 | 585 | 1097 |
| 420 | 0.666 | 2.00 | 3.33 | 3.67 | 7.66 | 18.7 | 30.7 | 60.6 | 148 | 237 | 472 | 886 |
| 350 | 0.555 | 1.67 | 2.78 | 3.05 | 6.39 | 15.5 | 25.5 | 50.5 | 123 | 197 | 394 | 739 |
| 280 | 0.444 | 1.33 | 2.22 | 2.44 | 5.11 | 12.4 | 20.4 | 40.4 | 98.6 | 158 | 315 | 591 |
| 230 | 0.365 | 1.09 | 1.82 | 2.01 | 4.20 | 10.2 | 16.8 | 33.2 | 81.0 | 130 | 259 | 485 |
| 190 | 0.301 | 0.904 | 1.51 | 1.66 | 3.47 | 8.44 | 13.9 | 27.4 | 66.9 | 107 | 214 | 401 |
| 155 | 0.246 | 0.738 | 1.23 | 1.35 | 2.83 | 6.89 | 11.3 | 22.4 | 54.6 | 87.3 | 174 | 327 |
| 125 | 0.198 | 0.595 | 0.992 | 1.09 | 2.28 | 5.55 | 9.12 | 18.0 | 44.0 | 70.4 | 141 | 264 |
| 100 | 0.159 | 0.476 | 0.793 | 0.873 | 1.82 | 4.44 | 7.30 | 14.4 | 35.2 | 56.3 | 112 | 211 |
| 84 | 0.133 | 0.400 | 0.666 | 0.733 | 1.53 | 3.73 | 6.13 | 12.1 | 29.6 | 47.3 | 94.5 | 177 |
| 68 | 0.108 | 0.324 | 0.539 | 0.593 | 1.24 | 3.02 | 4.96 | 9.82 | 24.0 | 38.3 | 76.5 | 143 |
| 56 | 0.089 | 0.267 | 0.444 | 0.489 | 1.02 | 2.49 | 4.09 | 8.09 | 19.7 | 31.5 | 63.0 | 118 |
| 45 | 0.071 | 0.214 | 0.357 | 0.393 | 0.821 | 2.00 | 3.28 | 6.50 | 15.9 | 25.3 | 50.6 | 95.0 |
| 37 | 0.059 | 0.176 | 0.294 | 0.323 | 0.675 | 1.64 | 2.70 | 5.34 | 13.0 | 20.8 | 41.6 | 78.1 |
| 30 | 0.048 | 0.143 | 0.238 | 0.262 | 0.547 | 1.33 | 2.19 | 4.33 | 10.6 | 16.9 | 33.7 | 63.3 |
| 25 | 0.040 | 0.119 | 0.198 | 0.218 | 0.456 | 1.11 | 1.82 | 3.61 | 8.81 | 14.1 | 28.1 | 52.8 |
| 20 | 0.032 | 0.095 | 0.159 | 0.175 | 0.365 | 0.889 | 1.46 | 2.89 | 7.04 | 11.3 | 22.5 | 42.2 |
| 16.5 | 0.026 | 0.079 | 0.131 | 0.144 | 0.301 | 0.733 | 1.20 | 2.38 | 5.81 | 9.29 | 18.6 | 34.8 |
| 13.5 | 0.021 | 0.064 | 0.107 | 0.118 | 0.246 | 0.600 | 0.985 | 1.95 | 4.76 | 7.60 | 15.2 | 28.5 |
| 11 | 0.017 | 0.052 | 0.087 | 0.096 | 0.201 | 0.489 | 0.803 | 1.59 | 3.87 | 6.20 | 12.4 | 23.2 |
| 9 | 0.014 | 0.043 | 0.071 | 0.079 | 0.164 | 0.400 | 0.657 | 1.30 | 3.17 | 5.07 | 10.1 | 19.0 |
| 7.5 | 0.012 | 0.036 | 0.060 | 0.065 | 0.137 | 0.333 | 0.547 | 1.08 | 2.64 | 4.22 | 8.44 | 15.8 |
| 5 | 0.0079 | 0.024 | 0.040 | 0.044 | 0.091 | 0.222 | 0.365 | 0.722 | 1.76 | 2.82 | 5.62 | 10.6 |

Service Factors

TABLE 4 — Flexible Coupling Service Factors for Motor ♦ and Turbine Drives

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

| Alphabetical listing of applications | | | | | Alphabetical listing of industries | | | | |
|---|--|---|--|---|--------------------------------------|---|---------------------------------|---------------------------------|-------------------------------------|
| Service Factor | | | | | Service Factor | | | | |
| AERATOR2.0 | LAUNDRY WASHER OR TUMBLER2.0 | AGITATORS | LINE SHAFTS | AGGREGATE PROCESSING, CEMENT, MINING KILNS; TUBE, ROD AND BALL MILLS | Shear, Croppers.....Refer to Factory | OIL INDUSTRY | Chiller.....1.25 | PAPER MILLS | Barker Auxiliary, Hydraulic.....2.0 |
| Vertical and Horizontal | Any Processing Machinery.....1.5 | Screw, Propeller, Paddle.....1.0 | MACHINE TOOLS | Direct or on U.S. shaft of Reducer, with final drive | Mills.....Refer to Factory | Chiller (not over 150% peak torque).....2.0 | Barker, Mechanical.....2.0 | Barker, Mechanical.....2.0 | Barker, Mechanical.....2.0 |
| BARGE HAUL PULLER1.5 | Auxiliary and Traverse Drive.....1.0 | BLOWERS | Bending Roll, Notching Press, Punch Press, Planer, Plate | Machined Spur Gears.....2.0 | Slitters, Steel Mill only.....1.75 | Paraffin Filter Press.....1.5 | Barking Drum | Barking Drum | Barking Drum |
| CAR DUMPERS | Reversing.....1.75 | Centrifugal.....1.0 | Main Drive.....1.5 | Single Helical or Herringbone Gears.....1.75 | Soaking Pit Cover Drives — | Rotary Kiln.....2.0 | Lift.....1.0 | Lift.....1.0 | Lift.....1.0 |
| Lobe or Vane.....2.5 | MAN LIFTSNot Approved | CAR PULLERS1.5 | METAL FORMING MACHINES | Conveyors, Feeders, Screens, Elevators.....See General Listing | Travel.....2.0 | Wire Drawing Machinery.....1.75 | Travel.....2.0 | Travel.....2.0 | Travel.....2.0 |
| CLARIFIER OR CLASSIFIER1.0 | Continuous Caster.....1.75 | COMPRESSORS | Draw Bench Carriage and Extruder.....2.0 | Crushers, Ore or Stone.....2.5 | Straighteners.....2.0 | Wire Drawing Machinery.....1.75 | Straighteners.....2.0 | Straighteners.....2.0 | Straighteners.....2.0 |
| Centrifugal.....1.0 | Extruder.....2.0 | Rotary, Lobe or Vane.....1.25 | Farming Machine and Forming Mills.....2.0 | Dryer, Rotary.....1.75 | (Billet Bundle Busters).....2.0 | Wire Drawing Machinery.....1.75 | (Billet Bundle Busters).....2.0 | (Billet Bundle Busters).....2.0 | (Billet Bundle Busters).....2.0 |
| Rotary, Screw.....1.0 | Grizzly.....2.0 | Reciprocating | Forming Mills.....2.0 | Grizzly.....2.0 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 |
| Direct Connected.....Refer to Factory | Hog.....1.75 | Without Flywheel.....Refer to Factory | Slitters.....1.0 | Hog.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 |
| *With Flywheel and Gear | Mixer.....1.5 | between Compressor and Prime Mover | Wire Drawing or Flattening.....1.75 | Mixer.....1.5 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 |
| 1 cylinder, single acting.....3.0 | Mixer (see Agitators) | 1 cylinder, double acting.....3.0 | Wire Winder.....1.5 | Mixer (see Agitators) | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 |
| 2 cylinders, single acting.....3.0 | Concrete.....1.75 | 2 cylinders, double acting.....3.0 | Coilers and Uncoilers.....1.5 | Concrete.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 |
| 3 cylinders, single acting.....3.0 | Muller.....1.5 | 3 cylinders, double acting.....2.0 | MIXERS (see Agitators) | Muller.....1.5 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 |
| 4 or more cyl., single act.....1.75 | PRESS, PRINTING | 4 or more cyl., double act.....1.75 | Concrete.....1.75 | PUG MILL | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 |
| CONVEYORS | PULVERIZERS | Apron, Assembly, Belt, Chain, Flight, Screw.....1.0 | Muller.....1.5 | Hammertmill and Hog.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 |
| Bucket.....1.25 | Hammertmill and Hog.....1.75 | Live Roll, Shaker and Reciprocating.....3.0 | PUMPS | Roller.....1.5 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 |
| CRANES AND HOIST | Boiler Feed.....1.5 | Main Hoist.....1.75▲ | Centrifugal — | Boiler Feed.....1.5 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 |
| Skip Hoist.....1.75▲ | Centrifugal — | Slope.....1.5 | Constant Speed.....1.0 | Centrifugal — | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 |
| Bridge, Travel or Trolley.....1.75 | Frequent Speed Changes under Load.....1.25 | DYNAMOMETER1.0 | Descaling, with accumulators.....1.25 | Frequent Speed Changes under Load.....1.25 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 |
| ELEVATORS | Descaling, with accumulators.....1.25 | Bucket, Centrifugal Discharge.....1.25 | Gear, Rotary, or Vane.....1.25 | Descaling, with accumulators.....1.25 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 |
| Freight or Passenger.....Not Approved | Reciprocating, Plunger Piston | Gravity Discharge.....1.25 | 1 cyl., single or double act.....3.0 | Reciprocating, Plunger Piston | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 |
| ESCALATORSNot Approved | 1 cyl., single acting.....2.0 | EXCITER, GENERATOR1.0 | 2 cyl., double acting.....1.75 | 1 cyl., single acting.....2.0 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 |
| EXTRUDER, PLASTIC | 3 or more cylinders.....1.5 | FANS | Screw Pump, Progressing Cavity.....1.25 | 3 or more cylinders.....1.5 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 |
| Centrifugal.....1.0 | Vacuum Pump.....1.25 | Cooling Tower.....2.0 | SCREENS | Vacuum Pump.....1.25 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 |
| Forced Draft — Across the Line start.....1.5 | Air Washing.....1.0 | Forced Draft Motor | Grizzly.....2.0 | Air Washing.....1.0 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 |
| Driven thru fluid or electric slip clutch.....1.0 | Grizzly.....2.0 | Gas Recirculating.....1.5 | Rotary Coal or Sand.....1.5 | Grizzly.....2.0 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 |
| Induced Draft with damper control or blade cleaner.....1.25 | Vibrating.....2.5 | Induced Draft without controls.....2.0 | Vibrating.....2.5 | Vibrating.....2.5 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 |
| FEEDERS | Water.....1.0 | Apron, Belt, Disc, Screw.....1.0 | SKI TOWS & LIFTSNot Approved | Water.....1.0 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 |
| Reciprocating.....2.5 | STEERING GEAR1.0 | GENERATORS | STOKER1.0 | STEERING GEAR1.0 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 |
| Even Load.....1.0 | 1.0 | Hoist or Railway Service.....1.5 | TIRE SHREDDER1.50 | 1.0 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 |
| Welder Load.....2.0 | TUMBLING BARREL1.75 | HAMMERMILL1.75 | WINCH, MANEUVERING | TUMBLING BARREL1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 |
| | Dredge, Marine.....1.5 | | WINDLASS | Dredge, Marine.....1.5 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 |
| | WOODWORKING MACHINERY1.0 | | WOODWORKING MACHINERY1.0 | WOODWORKING MACHINERY1.0 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 |
| | WORK LIFT PLATFORMSNot Approved | | WORK LIFT PLATFORMSNot Approved | WORK LIFT PLATFORMSNot Approved | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 | Wire Drawing Machinery.....1.75 |

♦ 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. If in doubt, provide axial clearances and centering forces to Factory for a recommendation.

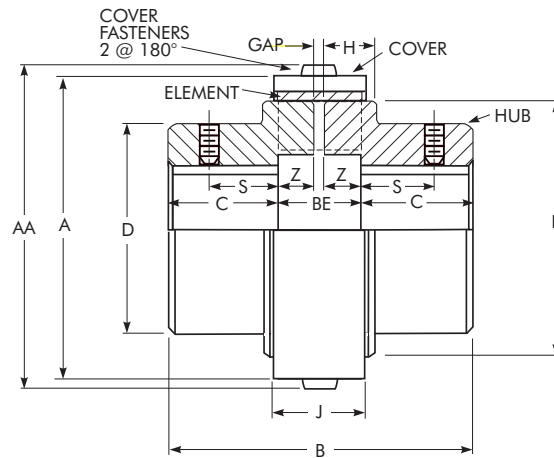
* For balanced opposed design, refer to Factory.

▲ If people are occasionally transported, refer to Factory for the selection of the proper size coupling.

♣ For high peak load applications (such as Metal Rolling Mills) refer to Factory.

Type R10

Close Coupled Coupling/Dimensions — Millimeters



DIMENSIONS — MILLIMETERS †

| SIZE ★ | Torque Rating Nm | Allow Speed rpm | Max Bore ‡ | Cplg Wt No Bore - kg ‡ | | A | | AA | | B | BE ■ | C | D | F | H | J | S | Z | Gap ■ | Cover Fasteners ◆ | |
|-----------|------------------------|-----------------------|------------------|---------------------------|------------------|----------------|------------------|----------------|------------------|-------|---------|-------|-------|-------|------|------|------|------|----------|----------------------|-----------------|
| | | | | Nylon Cover | Steel Cover ● | Nylon Cover | Steel Cover ● | Nylon Cover | Steel Cover ● | | | | | | | | | | | Size | Allen Wrench |
| 2R | 11 | 4,500 | 22.00 | 0.365 | 0.402 | 48.8 | 49.0 | 51.8 | 52.1 | 56.5 | 16.5 | 20.0 | ... | 38.9 | ... | 14.0 | 9.7 | 7.5 | 1.50 | M3 | M2 |
| 3R | 34 | 4,500 | 28.00 | 0.767 | 0.823 | 61.0 | 61.0 | 64.0 | 64.0 | 68.5 | 18.5 | 25.0 | ... | 50.9 | ... | 16.0 | 12.2 | 8.5 | 1.50 | M3 | M2 |
| 4R | 56 | 4,500 | 35.00 | 1.17 | 1.26 | 70.5 | 71.0 | 74.7 | 75.2 | 79.5 | 19.5 | 30.0 | ... | 57.9 | ... | 17.0 | 14.7 | 9.0 | 1.50 | M4 | M2.5 |
| 5R | 62 | 4,500 | 38.00 | 1.34 | 1.48 | 76.5 | 76.5 | 80.5 | 80.5 | 84.0 | 20.0 | 26.0 | 60.0 | 64.0 | 15.0 | 23.0 | 15.9 | 9.0 | 2.00 | M4 | M2.5 |
| 10R | 130 | 4,500 | 48.00 | 2.48 | 2.70 | 90.5 | 90.5 | 94.5 | 94.5 | 99.0 | 24.0 | 34.0 | 72.0 | 76.0 | 19.0 | 28.0 | 22.2 | 11.0 | 2.00 | M4 | M2.5 |
| 20R | 320 | 4,500 | 60.00 | 5.62 | 6.07 | 126.0 | 124.0 | 132.1 | 130.1 | 138.0 | 32.0 | 45.0 | 92.0 | 102.0 | 25.0 | 37.1 | 25.4 | 15.0 | 2.00 | M6 | M4 |
| 30R | 520 | 4,500 | 65.00 | 9.37 | 10.0 | 146.5 | 143.0 | 152.6 | 149.1 | 159.0 | 36.0 | 58.0 | 105.0 | 118.0 | 29.0 | 42.0 | 31.8 | 17.0 | 2.00 | M6 | M4 |
| 40R | 1,030 | 3,600 | 85.00 | 17.1 | 18.1 | 182.4 | 177.0 | 190.0 | 185.0 | 195.0 | 47.0 | 67.0 | 130.0 | 150.0 | 34.0 | 54.5 | 41.3 | 21.0 | 5.00 | M8 | M5 |
| 50R | 2,500 | 3,000 | 105.00 | 35.7 | 37.6 | 231.0 | 224.0 | 239.0 | 232.0 | 245.0 | 61.0 | 77.0 | 178.0 | 190.0 | 46.0 | 69.5 | 44.5 | 28.0 | 5.00 | M8 | M5 |
| 60R | 4,000 | 2,500 | 135.00 | ... | 66.2 | ... | 267.0 | ... | 278.0 | 275.4 | 75.4 | 100.0 | 209.6 | 228.0 | 60.2 | 67.0 | ... | 35.2 | 5.00 | M10 | M6 |
| 70R | 8,000 | 2,100 | 160.00 | ... | 111 | ... | 310.0 | ... | 321.0 | 324.4 | 84.4 | 120.0 | 250.8 | 270.0 | 69.7 | 75.0 | ... | 39.7 | 5.00 | M10 | M6 |
| 80R | 15,000 | 1,800 | 190.00 | ... | 165 | ... | 370.0 | ... | 381.0 | 376.8 | 96.8 | 140.0 | 270.0 | 328.0 | 83.4 | 85.0 | ... | 45.4 | 6.00 | M10 | M6 |

★ 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.

† AGMA Class 1 clearance fit bores are standard for Sizes 2R thru 50R, with two setscrews (one over keyway & one at 90°). Interference fit bores and no setscrews are standard for Sizes 60R 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.

‡ Coupling assembly weight is based on "no bore" hubs. For coupling assembly weight and bored hubs, subtract the following value for each hub: $(0.20)(\text{Bore})^2(\text{C})$ lb. Bore in "mm".

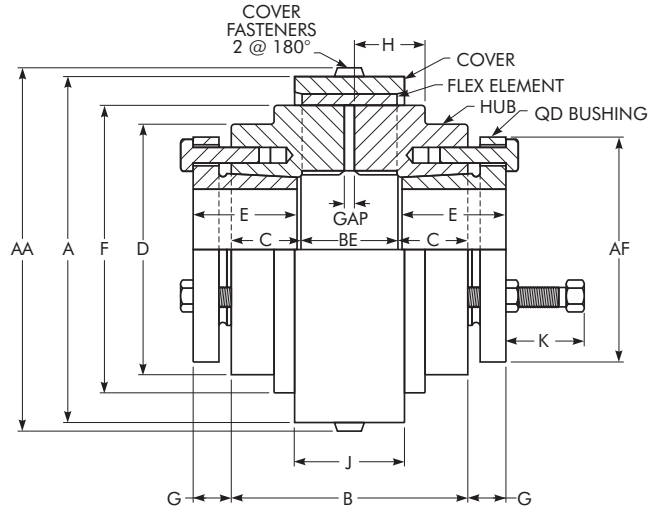
● Nylon cover is standard on Sizes 2R thru 50R, with an epoxy-coated steel cover as an option. Epoxy-coated steel cover is standard on Sizes 60R thru 80R, with no option for nylon cover.

■ "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.

◆ Cover fasteners are stainless steel, socket button head capscrews, per ISO 7380-A2. Two capscrews per coupling assembly.

Type R10

QD Bushings/Dimensions — Millimeters



| COUPLING SIZE | Bushing Size | Torque Rating ★ | kW per rpm | Max RPM | Max Bore ★ | Min Bore ★ | Coupling weight without Bushing | | GAP | BE |
|---------------|--------------|-----------------|------------|---------|------------|------------|---------------------------------|------------------|------|------|
| | | Nm | | | | | Nylon Cover – kg | Steel Cover – kg | | |
| 5R | JA | 62 | 0.0065 | 4 500 | 30.00 | 15.00 | 0.965 | 1.10 | 2.00 | 20.0 |
| 10R | JA | 130 | 0.0136 | 4 500 | 30.00 | 15.00 | 1.58 | 1.81 | 2.00 | 24.0 |
| 20R | SD | 320 | 0.0335 | 4 500 | 43.00 | 24.00 | 3.05 | 3.53 | 2.00 | 32.0 |
| 30R | SD | 520 | 0.0544 | 4 500 | 43.00 | 24.00 | 4.61 | 5.27 | 2.00 | 36.0 |
| 40R | SF | 1 030 | 0.108 | 3 600 | 63.00 | 28.00 | 7.70 | 8.73 | 5.00 | 47.0 |
| 50R | E | 2 500 | 0.263 | 3 000 | 89.00 | 35.00 | 17.5 | 19.4 | 5.00 | 61.0 |
| 60R | J | 4 000 | 0.42 | 2 500 | 114.00 | 50.00 | NA | 37.6 | 5.00 | 75.4 |
| 70R | J | 8 000 | 0.84 | 2 100 | 114.00 | 50.00 | NA | 57.0 | 5.00 | 84.4 |
| 80R | M † | 15 000 | 1.57 | 1 800 | 139.00 | 80.00 | NA | 115 | 6.00 | 96.8 |

| COUPLING SIZE | Cover Fasteners • | | Bushing Fasteners • Metric Hardware | AA - Nylon Cover | AA - Steel Cover | A - Nylon Cover | A - Steel Cover | AF ★ | B |
|---------------|-------------------|----------|--|------------------|------------------|-----------------|-----------------|-------|-------|
| | Size | Hex Tool | | | | | | | |
| 5R | M4 | M2.5 | M5 x 0.8 x 25 | 80.5 | 80.4 | 76.5 | 76.5 | 50.8 | 72.0 |
| 10R | M4 | M2.5 | M5 x 0.8 x 25 | 94.5 | 94.4 | 90.5 | 90.5 | 50.8 | 76.0 |
| 20R | M6 | M4 | M6 x 1.0 x 25 | 132.1 | 130.1 | 126.0 | 124.0 | 81.0 | 96.0 |
| 30R | M6 | M4 | M6 x 1.0 x 25 | 152.6 | 149.1 | 146.5 | 143.0 | 81.0 | 100.0 |
| 40R | M8 | M5 | M10 x 1.5 x 35 | 190.0 | 185.0 | 182.0 | 177.0 | 117.5 | 115.0 |
| 50R | M8 | M5 | M12 x 1.75 x 45 | 239.0 | 232.0 | 231.0 | 224.0 | 152.4 | 145.0 |
| 60R | M10 | M6 | M16 x 2.0 x 65 | ... | 278.0 | ... | 267.0 | 184.2 | 237.4 |
| 70R | M10 | M6 | M16 x 2.0 x 65 | ... | 321.0 | ... | 310.0 | 184.2 | 246.4 |
| 80R | M10 | M6 | M20 x 2.0 x 75 | ... | 381.0 | ... | 370.0 | 231.8 | 360.8 |

| COUPLING SIZE | C | D | E ★ | F | G ★ | H | J - Nylon Cover | J - Steel Cover | K - Clearance |
|---------------|-------|-------|-------|--------|------|------|-----------------|-----------------|---------------|
| | mm | | | | | | | | |
| 5R | 26.0 | 60.0 | 25.4 | 64.00 | 11.1 | 15.0 | 23.0 | 23.0 | 29.5 |
| 10R | 26.0 | 72.0 | 25.4 | 76.00 | 11.1 | 19.0 | 28.0 | 28.0 | 29.5 |
| 20R | 32.0 | 92.0 | 46.0 | 102.00 | 14.3 | 25.0 | 37.1 | 37.1 | 30.2 |
| 30R | 32.0 | 105.0 | 46.0 | 118.00 | 14.3 | 29.0 | 42.0 | 41.6 | 30.2 |
| 40R | 34.0 | 130.0 | 50.8 | 150.00 | 21.4 | 34.0 | 54.5 | 53.0 | 38.1 |
| 50R | 42.0 | 178.0 | 66.7 | 190.00 | 28.6 | 46.0 | 69.5 | 67.2 | 54.0 |
| 60R | 81.0 | 209.6 | 114.3 | 228.00 | 38.1 | 60.2 | ... | 67.0 | 74.6 |
| 70R | 81.0 | 250.8 | 114.3 | 270.00 | 38.1 | 69.7 | ... | 75.0 | 74.6 |
| 80R | 132.0 | 270.0 | 171.5 | 328.00 | 42.1 | 83.4 | ... | 85.0 | 88.9 |

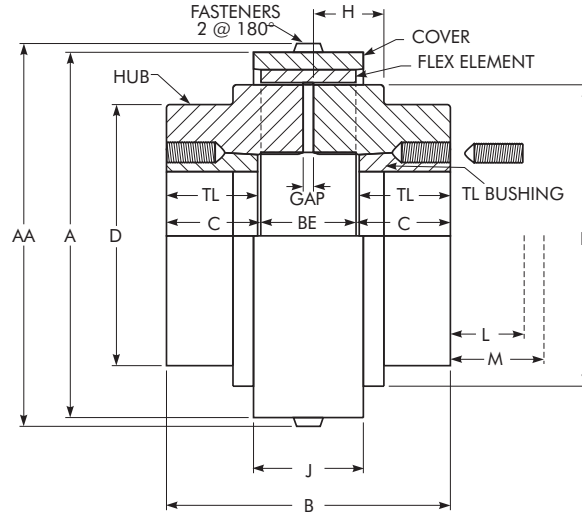
★ Typical – refer to bushing manufacturer for exceptions and Service Factor limitations..

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

● 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.

Type R10

Taper-Lock (BSW ♦) Bushings/Dimensions — Millimeters



| COUPLING SIZE | Bushing Size | Torque Rating ★ | kW per rpm | Max RPM | Max Bore ★ | Min Bore ★ | Coupling Weight without Bushing | | Gap |
|---------------|--------------|-----------------|------------|---------|------------|------------|---------------------------------|------------------|------|
| | | Nm | | | | | Nylon Cover – kg | Steel Cover – kg | |
| 5R | 1108 | 62 | 0.0065 | 4 500 | 26.00 | 9.00 | 0.807 | 0.943 | 2.00 |
| 10R | 1210 | 130 | 0.0136 | 4 500 | 32.00 | 11.00 | 1.56 | 1.78 | 2.00 |
| 20R | 1610 | 320 | 0.0335 | 4 500 | 40.00 | 14.00 | 3.11 | 3.59 | 2.00 |
| 30R | 2012 | 520 | 0.0544 | 4 500 | 48.00 | 14.00 | 4.85 | 5.49 | 2.00 |
| 40R | 2517 ♦ | 1 030 | 0.108 | 3 600 | 63.00 | 16.00 | 8.80 | 9.84 | 5.00 |
| 50R | 3020 | 2 500 | 0.263 | 3 000 | 75.00 | 24.00 | 18.6 | 20.4 | 5.00 |
| 60R | 4030 | 4 000 | 0.420 | 2 500 | 100.00 | 40.00 | ... | 35.3 | 5.00 |
| 70R | 4535 | 8 000 | 0.839 | 2 100 | 110.00 | 55.00 | ... | 54.4 | 5.00 |
| 80R | 5040 | 14 200 | 1.49 | 1 800 | 125.00 | 70.00 | ... | 103 | 6.00 |

| COUPLING SIZE | BE | Cover Fasteners † | | 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 | 90.5 | 90.5 | 94.5 | 94.4 | 90.0 | 33.0 |
| 20R | 32.0 | M6 | M4 | 126.0 | 124.0 | 132.1 | 130.1 | 98.0 | 33.0 |
| 30R | 36.0 | M6 | M4 | 146.5 | 143.0 | 152.6 | 149.1 | 120.0 | 42.0 |
| 40R | 47.0 | M8 | M5 | 182.0 | 177.0 | 190.0 | 185.0 | 139.0 | 46.0 |
| 50R | 61.0 | M8 | M5 | 231.0 | 224.0 | 239.0 | 232.0 | 171.0 | 55.0 |
| 60R | 75.4 | M10 | M6 | ... | 267.0 | ... | 278.0 | 245.4 | 85.0 |
| 70R | 84.4 | M10 | M6 | ... | 310.0 | ... | 321.0 | 264.4 | 90.0 |
| 80R | 96.8 | M10 | M6 | ... | 370.0 | ... | 381.0 | 304.8 | 104.0 |

| COUPLING SIZE | D | F | H | J - Nylon Cover | J - Steel Cover | L ‡ | | M • | | TL |
|---------------|-------|--------|------|-----------------|-----------------|------------------|-----------------|------------------|-----------------|-----|
| | | | | | | Standard Hex Key | Short ■ Hex Key | Standard Hex Key | Short ■ Hex Key | |
| 5R | 60.0 | 64.00 | 15.0 | 23.0 | 23.0 | 29 | 16 | 32 | 19 | 22 |
| 10R | 72.0 | 76.00 | 19.0 | 28.0 | 28.0 | 35 | 21 | 42 | 27 | 25 |
| 20R | 92.0 | 102.00 | 25.0 | 37.1 | 37.1 | 35 | 21 | 42 | 27 | 25 |
| 30R | 105.0 | 118.00 | 29.0 | 42.0 | 41.6 | 40 | 24 | 51 | 35 | 32 |
| 40R | 130.0 | 150.00 | 34.0 | 54.5 | 53.0 | 42 | 26 | 58 | 42 | 45 |
| 50R | 178.0 | 190.00 | 46.0 | 69.5 | 67.2 | 46 | 31 | 69 | 53 | 51 |
| 60R | 209.6 | 228.00 | 60.2 | - | 67.0 | 61 | 42 | 105 | 86 | 76 |
| 70R | 250.8 | 270.00 | 69.7 | - | 75.0 | 67 | 50 | 121 | 104 | 89 |
| 80R | 270.0 | 328.00 | 83.4 | - | 85.0 | 72 | 59 | 134 | 123 | 102 |

★ Typical – refer to bushing manufacturer for exceptions and Service Factor limitations

† Cover Fasteners are ISO 7380, Stainless Steel, Socket Button Head Cap Screws.

‡ Space required to tighten bushing. Also, space required to loosen screws to permit removal of hub by puller.

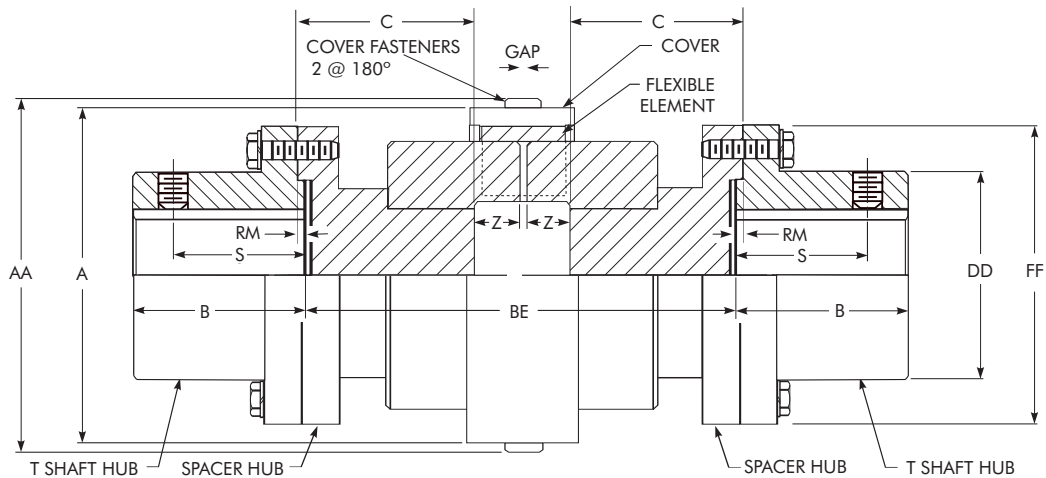
• Space required to remove bushing using jackscrews – no puller required.

■ Standard hex key cut to minimum useable length.

♦ BSW (British Standard Whitworth) threads (55° Pressure Angle) are common outside USA (UNC thread with 60° PA). BSW are considered by some manufacturers to be interchangeable with UNC threads except for 1/2" x 12 TPI (Threads Per Inch) on 2517 BSW bushings.

Type R31

Full Spacer Coupling/Dimensions — Millimeters



NOTE: Distance Between Shaft Ends (BE) = 2(C) + 2(Z) + Gap - 2(RM)

SPACER DIMENSIONS — MILLIMETERS

| SIZE ★ | Torque Rating Nm | Allow Speed rpm | Max Bore ♦ | Coupling Wt No Bore — kg | | BE | | A | | AA | | B | DD | FF | RM | S | Z | Gap | Cover Fasteners • | | Flange Fasteners ■ | | T Shaft Hub |
|------------|------------------------|-----------------------|------------------|-----------------------------|-----------------------------|------|-----|----------------|------------------|----------------|------------------|-------|-------|-----|------|------|------|------|----------------------|-------------------------|-----------------------|----------------------|-------------------|
| | | | | At Min BE kg | Per Added BE kg/mm | Min | Max | Nylon Cover | Steel Cover † | Nylon Cover | Steel Cover † | | | | | | | | Size | Allen Wrench Tool | Size | No. Per Flange | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 5R | 62 | 4 500 | 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 | 9.0 | 2.00 | M4 | M2.5 | M6 | 4 | 1020T |
| 10R | 130 | 4 500 | 43 | 4.99 | 0.015 | 88.9 | 254 | 90.5 | 90.5 | 94.5 | 94.4 | 41.3 | 59.5 | 94 | 1.27 | 31.5 | 11.0 | 2.00 | M4 | M2.5 | M6 | 8 | 1030T |
| 20R | 320 | 4 500 | 56 | 9.53 | 0.027 | 88.9 | 254 | 126 | 124 | 132 | 130 | 54.0 | 78.6 | 113 | 1.27 | 27.4 | 15.0 | 2.00 | M6 | M4 | M6 | 8 | 1040T |
| 30R | 520 | 4 500 | 67 | 14.1 | 0.034 | 111 | 254 | 147 | 143 | 153 | 149 | 60.3 | 87.3 | 126 | 1.27 | 40.6 | 17.0 | 2.00 | M6 | M4 | M8 | 8 | 1050T |
| 40R | 1 030 | 3 600 | 85 | 25.9 | 0.040 | 127 | 311 | 182 | 177 | 190 | 185 | 79.4 | 109.5 | 153 | 1.27 | 46.7 | 21.0 | 5.00 | M8 | M5 | M10 | 12 | 1070T |
| 50R | 2 500 | 3 000 | 95 | 45.4 | 0.059 | 165 | 311 | 231 | 224 | 239 | 232 | 88.9 | 122.2 | 178 | 1.27 | 49.8 | 28.0 | 5.00 | M8 | M5 | M12 | 12 | 1080T |
| 60R | 4 000 | 2 500 | 110 | 72.6 | 0.082 | 200 | 311 | ... | 267 | ... | 278 | 101.6 | 142.9 | 210 | 1.27 | ... | 35.2 | 5.00 | M10 | M6 | M16 | 12 | 1090T |
| 70R | 8 000 | 2 100 | 130 | 102 | 0.117 | 224 | 373 | ... | 310 | ... | 321 | 90.4 | 171.4 | 251 | 1.52 | ... | 39.7 | 5.00 | M10 | M6 | M20 | 12 | 1100T |
| 70R | 8 000 | 2 100 | 150 | 120 | 0.117 | 224 | 373 | ... | 310 | ... | 321 | 104.1 | 196.8 | 276 | 1.52 | ... | 39.7 | 5.00 | M10 | M6 | M20 | 12 | 1110T |
| 80R | 15 000 | 1 800 | 170 | 188 | 0.144 | 250 | 424 | ... | 370 | ... | 381 | 119.4 | 225.4 | 320 | 2.39 | ... | 45.4 | 6.00 | M10 | M6 | M24 | 12 | 1120T |
| 80R | 15 000 | 1 800 | 190 | 230 | 0.240 | 256 | 424 | ... | 370 | ... | 381 | 134.6 | 238.1 | 347 | 2.39 | ... | 45.4 | 6.00 | M10 | M6 | M27 | 12 | 1130T |

★ 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.

† 5R-50R nylon cover is standard & epoxy coated steel cover is optional. 60R-80R epoxy coated steel cover is standard (nylon cover not available).

• Cover Fasteners are ISO 7380 Stainless Steel Socket Button Head Cap screws. Two cover fasteners per coupling.

■ Flange Fasteners are ISO Grade 10.9 hex head cap screws for 5R-50R and ISO Grade 8.8 hex head cap screws for 60R.

♦ Maximum 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.

TABLE 6 — Taper-Lock® Bushings for T Shaft Hubs *

| COUPLING SIZE | T Shaft Hub | Torque Rating Nm | kW per rpm | Allow Speed | Bore Range | Bushing Size |
|------------------|-------------------|------------------------|---------------|----------------|---------------|-----------------|
| | | | | | | |
| 10R | 1030T | 130 | 0.0136 | 4 500 | 9-26 | 1108 |
| 20R | 1040T | 315 | 0.0331 | 4 500 | 13-35 | 1310 |
| 30R | 1050T | 485 | 0.0509 | 4 500 | 13-42 | 1615 |
| 40R | 1070T | 994 | 0.104 | 3 600 | 20-63 | 2525 |
| 50R | 1080T | 1 276 | 0.134 | 3 000 | 20-63 | 2525 |
| 60R | 1090T | 2 710 | 0.284 | 2 500 | 24-75 | 3030 |
| 70R | 1100T | 5 062 | 0.531 | 2 100 | 31-91 | 3535 |
| 70R | 1110T | 8 000 | 0.839 | 2 100 | 37-103 | 4040 |
| 80R | 1120T | 12 428 | 1.304 | 1 800 | 50-114 | 4545 |
| 80R | 1130T | 14 226 | 1.493 | 1 800 | 61-127 | 5050 |

* Bushings with UNC threads, not BSW.

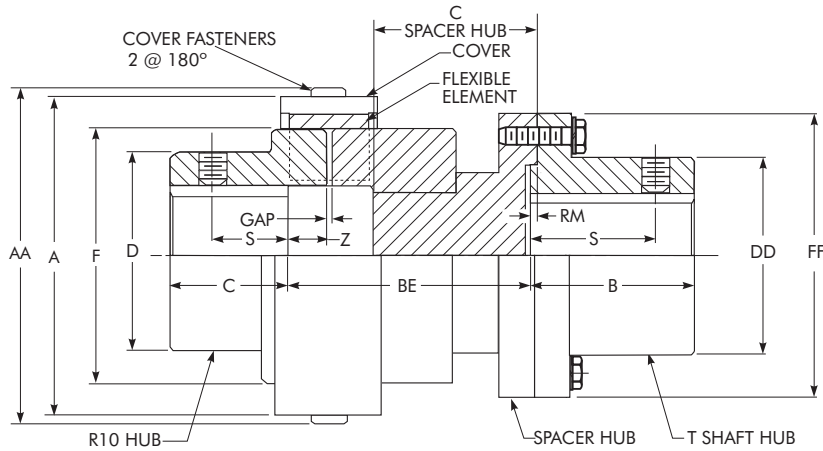
TABLE 7 — Type R31 Standard Spacer Lengths

| COUPLING SIZE | BE Lengths (Distance Between Shaft Ends) | | |
|---------------|--|-----|-----|
| | 100 | 140 | 180 |
| 5R | X | ... | ... |
| 10R | X | X | ... |
| 20R | X | X | ... |
| 30R | ... | X | ... |
| 40R | ... | X | X |
| 50R | ... | ... | X |
| 60R | ... | ... | ... |

Other BE lengths available. Refer to Factory.

Type R35

Half Spacer Coupling/Dimensions — Millimeters



NOTE: Distance Between Shaft Ends (BE) = (C)_{Spacer Hub} + 2(Z) + Gap - RM

SPACER DIMENSIONS — MILLIMETERS

| SIZE ★ | Torque Rating Nm | Allow Speed rpm | Max Bore ♦ | Cplg Wt No | | BE | | A | | AA | | B | C R10 Hub | D | DD | F | FF | RM | S | | Z | Gap | Cover Fasteners • | | Flange Fasteners ■ | | T Shaft Hub |
|-----------|------------------------|-----------------------|------------------|-----------------|----------------------|-------|-------|------------|------------|------------|------------|-------|-----------------|-------|-------|-----|-----|------|----------|----------|------|------|----------------------|---------------|-----------------------|-----|-------------------|
| | | | | At | Per | Min | Max | Nylon | Steel | Nylon | Steel | | | | | | | | Shaft | R10 | | | Size | Allen | Size | No. | |
| | | | | Min BE kg | Added BE kg/mm | | | Cover † | Cover † | Cover † | Cover † | | | | | | | | Hub * | Hub * | | | Wrench Tool | Per Flange | | | |
| 5R | 62 | 4 500 | 35 | 2.54 | 0.014 | 50.5 | 127.0 | 76.5 | 76.5 | 80.5 | 80.4 | 34.9 | 26 | 60 | 52.4 | 64 | 86 | 1.27 | 27.4 | 15.9 | 9.0 | 2.00 | M4 | M2.5 | M6 | 4 | 1020T |
| 10R | 130 | 4 500 | 43 | 3.96 | 0.015 | 59.6 | 140.0 | 90.5 | 90.5 | 94.5 | 94.4 | 41.3 | 34 | 72 | 59.5 | 76 | 94 | 1.27 | 31.5 | 22.2 | 11.0 | 2.00 | M4 | M2.5 | M6 | 8 | 1030T |
| 20R | 320 | 4 500 | 56 | 8.44 | 0.027 | 76.5 | 140.0 | 126 | 124 | 132 | 130 | 54.0 | 45 | 92 | 78.6 | 102 | 113 | 1.27 | 27.4 | 25.4 | 15.0 | 2.00 | M6 | M4 | M6 | 8 | 1040T |
| 30R | 520 | 4 500 | 67 | 12.9 | 0.034 | 87.6 | 146.1 | 147 | 143 | 153 | 149 | 60.3 | 58 | 105 | 87.3 | 118 | 126 | 1.27 | 40.6 | 31.8 | 17.0 | 2.00 | M6 | M4 | M8 | 8 | 1050T |
| 40R | 1 030 | 3 600 | 85 | 22.4 | 0.040 | 88.6 | 184.2 | 182 | 177 | 190 | 185 | 79.4 | 67 | 130 | 109.5 | 150 | 153 | 1.27 | 46.7 | 41.3 | 21.0 | 5.00 | M8 | M5 | M10 | 12 | 1070T |
| 50R | 2 500 | 3 000 | 95 | 40.8 | 0.059 | 113.1 | 184.2 | 231 | 224 | 239 | 232 | 88.9 | 77 | 178.0 | 122.2 | 190 | 178 | 1.27 | 49.8 | 44.5 | 28.0 | 5.00 | M8 | M5 | M12 | 12 | 1080T |
| 60R | 4 000 | 2 500 | 110 | 69.0 | 0.082 | 137.6 | 203.2 | ... | 267 | ... | 278 | 101.6 | 100 | 209.6 | 142.9 | 228 | 210 | 1.27 | ... | ... | 35.2 | 5.00 | M10 | M6 | M16 | 12 | 1090T |
| 70R | 8 000 | 2 100 | 130 | 106 | 0.117 | 153.9 | 228.9 | ... | 310 | ... | 321 | 90.4 | 120 | 250.8 | 171.4 | 270 | 251 | 1.52 | ... | ... | 39.7 | 5.00 | M10 | M6 | M20 | 12 | 1100T |
| 70R | 8 000 | 2 100 | 150 | 115 | 0.117 | 153.9 | 228.9 | ... | 310 | ... | 321 | 104.1 | 120 | 250.8 | 196.8 | 270 | 276 | 1.52 | ... | ... | 39.7 | 5.00 | M10 | M6 | M20 | 12 | 1110T |
| 80R | 15 000 | 1 800 | 170 | 180 | 0.144 | 172.7 | 259.6 | ... | 370 | ... | 381 | 119.4 | 140 | 270 | 225.4 | 328 | 320 | 2.39 | ... | ... | 45.4 | 6.00 | M10 | M6 | M24 | 12 | 1120T |
| 80R | 15 000 | 1 800 | 190 | 193 | 0.240 | 175.5 | 259.6 | ... | 370 | ... | 381 | 134.6 | 140 | 270 | 238.1 | 328 | 347 | 2.39 | ... | ... | 45.4 | 6.00 | M10 | M6 | M27 | 12 | 1130T |

- ★ 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 only and are subject to change without notice unless certified.
- † 5R-50R nylon cover is standard & epoxy coated steel cover is optional. 60R-80R epoxy coated steel cover is standard (nylon cover not available).
- Cover Fasteners are ISO 7380 Stainless Steel Socket Button Head Cap screws. Two cover fasteners per coupling.
- Flange Fasteners are ISO Grade 10.9 hex head cap screws for 5R-50R and ISO Grade 8.8 hex head cap screws for 60R.
- ♦ Maximum 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(s) over keyway. Size 60R is standard interference fit with keyway, but no setscrew. For interference fit with setscrew over keyway, refer to 427-105.
- * 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).

TABLE 8 — R35 Spacer Lengths

| 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 |
| 104.09 | 11.0 | 93.09 | |
| 20R | 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 |

TABLE 8 — R35 Spacer Lengths

| 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 |

Other BE lengths available. Refer to Factory.

Taper-Lock bushing for R10 hub, see Page 10.
 QD bushing for R10 hub, see Page 9.
 Taper-Lock bushing for T shaft hub, see Table 6, Page 11.

Engineering Data

TABLE 9 — 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 Factory | X | X | ... | ... |
| 606 | 806 | AC 8 & 12 | ... | ... | ... | ... | ... | X | X | X | ... |
| 608 | 808 | | ... | ... | ... | ... | ... | ... | X | X | X |
| 610 | 810 | AC 18 | ... | ... | ... | ... | ... | ... | Consult Factory | X | X |
| 612 | 812 | AC 25 & 50 | ... | ... | ... | ... | ... | ... | ... | X | X |
| 614 | 814 | AC 40 & 50 | ... | ... | ... | ... | ... | ... | ... | X | X |

**TABLE 10 — Recommended Bore Tolerances
Falk Steel Coupling Hubs —
Millimeters**

| Shaft Diameter (ISO/R775-1969) | | Bore Diameter Tolerance | | |
|-----------------------------------|-----------|-------------------------|--------------|--------------|
| Nominal | Tolerance | Clearance | Transitional | Interference |
| 6 to 30 | i6 / k6 † | 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 |

† Per DIN 748 — Differs from ISO/R775

Engineering Data

TABLE 11 — Recommended Bores for Metric Shafts per ISO/R775–1969 (Millimeters)

| | Shaft Diameter | Clearance Fit | | Transitional Fit | | Interference Fit | |
|--------------------|-------------------------------------|-----------------------------------|------------------------------|-----------------------------------|--------------------------------|---------------------------------------|----------------------------------|
| | | Hub Bore | Fit * | Hub Bore | Fit * | Hub Bore | Fit * |
| 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 / – 0.064 | – 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 | – 0.094 – 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 / .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 |

* Positive values are clearance. Negative values are interference.

Engineering Data

TABLE 12 — Installation & Operating Misalignment Capacity

| COUPLING SIZE | Installation Limits | | Operating Limits | |
|---------------|----------------------|------------------|----------------------|------------------|
| | Parallel Offset (mm) | Angular (Degree) | Parallel Offset (mm) | Angular (Degree) |
| 2R | 0.25 | 0.25 | 0.50 | 1.00 |
| 3R | 0.25 | 0.25 | 0.50 | 1.00 |
| 4R | 0.25 | 0.25 | 0.50 | 1.00 |
| 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 |

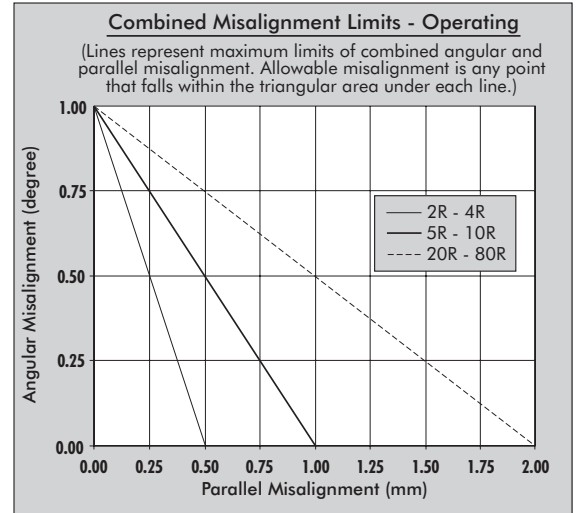


TABLE 13 — Mass and WR²

| R10 Mass | | | | | | |
|---------------|---------|-------------|-------------|-------------------|---------------------|---------------------|
| COUPLING SIZE | Element | Nylon Cover | Steel Cover | R10 Hub (No Bore) | Total w/Nylon Cover | Total w/Steel Cover |
| | kg | kg | kg | kg | kg | kg |
| 2R | 0.011 | 0.008 | 0.045 | 0.17 | 0.36 | 0.40 |
| 3R | 0.020 | 0.012 | 0.068 | 0.37 | 0.77 | 0.82 |
| 4R | 0.029 | 0.019 | 0.11 | 0.56 | 1.16 | 1.26 |
| 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 | | | | | | |
|---------------------|-------------------|-------------------|-------------------|-------------------|---------------------|---------------------|
| COUPLING SIZE | Element | Nylon Cover | Steel Cover | R10 Hub (No Bore) | Total w/Nylon Cover | Total w/Steel Cover |
| | kg-m ² | kg-m ² | kg-m ² | kg-m ² | kg-m ² | kg-m ² |
| 2R | 0.000035 | 0.000044 | 0.000024 | 0.000032 | 0.000072 | 0.000092 |
| 3R | 0.00011 | 0.00011 | 0.000059 | 0.00012 | 0.00026 | 0.00031 |
| 4R | 0.00020 | 0.00021 | 0.00013 | 0.00024 | 0.00052 | 0.00063 |
| 5R | 0.00026 | 0.00041 | 0.00022 | 0.00031 | 0.00068 | 0.00086 |
| 10R | 0.00067 | 0.00094 | 0.00051 | 0.00082 | 0.0018 | 0.0022 |
| 20R | 0.0040 | 0.0046 | 0.0021 | 0.0031 | 0.0070 | 0.0086 |
| 30R | 0.0080 | 0.0082 | 0.0039 | 0.0068 | 0.015 | 0.018 |
| 40R | 0.026 | 0.030 | 0.010 | 0.019 | 0.044 | 0.051 |
| 50R | 0.089 | 0.093 | 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 * | | | | | | | | | |
|---------------------------|---------------|----------------|--|-------------|--------------------------------------|----------------|--|-------------|--------------------------------------|
| COUPLING SIZE | T31 Shaft Hub | R31 Assembly † | | | | R35 Assembly ‡ | | | |
| | | Min BE | WR ² at Min BE (kg-m ²) | | WR ² (kg-m ²) | Min BE | WR ² at Min BE (kg-m ²) | | WR ² (kg-m ²) |
| | | (mm) | Nylon Cover | Steel Cover | per mm | (mm) | Nylon Cover | Steel Cover | per mm |
| 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 |

* WR² values are based on hubs with no bore.

† For R31 Mass, refer to Page 11.

‡ For R35 Mass, refer to Page 12.

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