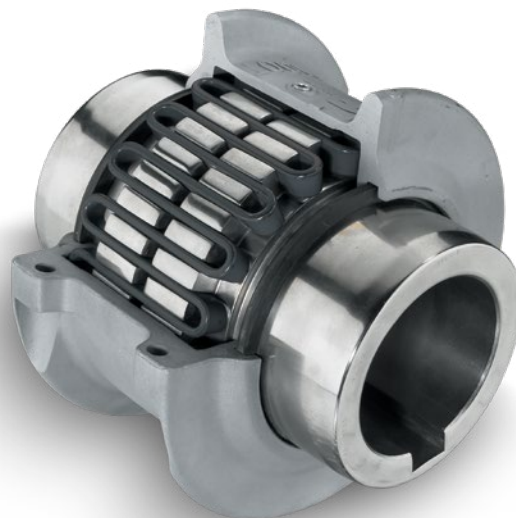


**FALK®**

PRODUCT  
CATALOG



**FALK® STEELFLEX®**  
**GRID COUPLINGS**  
METRIC



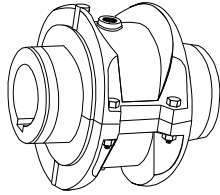
**RegalRexnord™**

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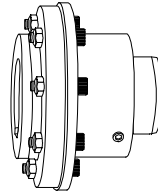
# Falk® Steelflex® Grid Coupling Application Guide

A general purpose, lubricated design that combines the economy and high torque capacity of a gear coupling with the torsional flexibility of an elastomeric coupling. Backed by a 5-year lubrication warranty, Falk Steelflex couplings require no periodic maintenance when lubricated with Falk LTG at installation. Featuring 25 sizes, Steelflex couplings can accommodate torque loads of 932,000 (Nm) and shaft diameters of 508 millimeters.



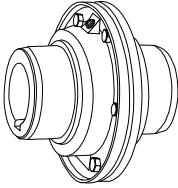
A double-flexing, close-coupled design for use in four-bearing systems. Features a horizontally split cover which allows for grid replacement without the movement of the connected equipment.  
(See **page 11.**)

**Type T10 Close-Coupled**



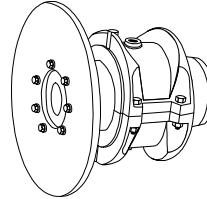
For use on line shaft applications. Can be used in place of single-engagement gear couplings to provide torsional resiliency and lower overall operating cost.  
(See **pages 25 and 26.**)

**Type T50 Piloted**



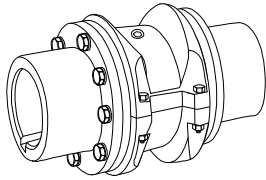
A double-flexing design featuring a vertically-split steel cover. Ideal for higher running speeds.  
(See **page 12.**)

**Type T20 Close-Coupled**



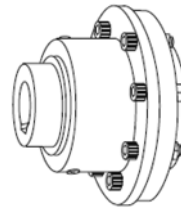
Proven to be far superior to drum-type brakes in cost, construction and performance.  
(See **pages 27-29.**)

**Type T63 Disc Brake**



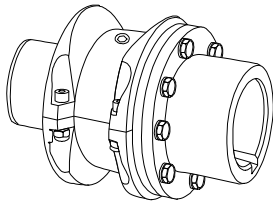
Complete center section drops out for easy service of connected equipment bearings and seals. Ideal for pump applications.  
(See **pages 13 and 14.**)

**Type T31 Full Spacer**



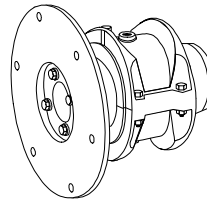
Designed for operating speeds beyond those of the T10 and T20 designs. Features a one-piece cover and balanced components.  
(See **page 30.**)

**Type T70 High Speed**



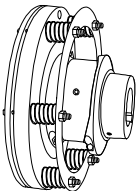
An economical spacer design for easy service of connected equipment bearings and seals. Ideal for pump applications.  
(See **pages 15 and 16.**)

**Type T35 Half Spacer**



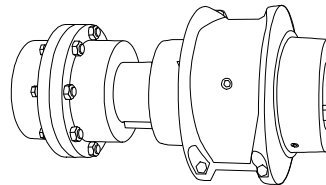
Used primarily to connect the flywheel of an engine to the driven machinery. It provides higher torque ratings with resulting smaller sizes and lower costs than elastomeric couplings.  
(See **page 31.**)

**Type T90 Flywheel**



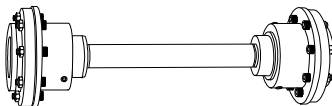
Provides adjustable slipping action to protect connected equipment from shock, jams or temporary overloads.  
(See **pages 17-24.**)

**Type T41/T44 Controlled Torque**



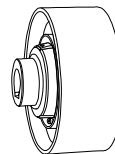
A combination of two standard Regal Rexnord™ couplings. Utilizes readily available components for an economical price and shorter lead time than T31/T35 couplings.  
(See **page 32.**)

**Type T10/G82 Spacer**



Double-piloted design for connecting equipment where the distance between shafts is too large for a spacer-type coupling.  
(See **pages 25 and 26.**)

**Type T50 Floating Shaft**



Provides a built-in breaking surface right at or near the centerline of the coupling ... saves space and dollars.  
(See Selection Guide [431-310.](#))

**Type BW Brakewheel**

**CAUTION! Mixing grid coupling components from *different* manufacturers may cause premature failure and possible personal injury or property damage from flying debris.**

## How to Select

### Standard Selection Method (except T41/T44 & T63)

The standard selection method can be used for most motor, turbine or engine-driven applications. The following information is required to select a flexible coupling:

- Horsepower or torque.
- Running rpm.
- Application or type of equipment to be connected (motor to pump, gear drive to conveyor, etc.).
- Shaft diameters.
- Shaft gaps.
- Physical space limitations.
- Special bore or finish information and type of fit.

**Exceptions are High Peak Loads and Brake Applications. For these conditions use the Formula Selection Method in the next column, or consult your local Regal Rexnord™ representative for assistance.**

1. **Rating:** Determine system torque. If torque is not given, calculate as shown below:

$$\text{System Torque (Nm)} = \frac{\text{kW} \times 9549}{\text{Rpm}}$$

Where horsepower is the actual or transmitted power required by the application (if unknown, use the motor or turbine nameplate rating) and rpm is the actual speed the coupling is rotating. Applications that require rapid changes in direction or torque reversals should be referred to Regal Rexnord Engineering.

2. **Service Factor:** Determine appropriate service factor from **Table 4, page 9**.
3. **Required Minimum Coupling Rating:** Determine the required minimum coupling rating as shown below:  
$$\text{Minimum Coupling Rating} = \text{S.F. (Service Factor)} \times \text{Torque (Nm)}$$
4. **Type:** Refer to **page 3** and select the appropriate coupling type.
5. **Size:** Turn to appropriate pages for the coupling type chosen and trace down the torque column to a value that is equal or greater than that determined in Step 3 above. The coupling size is shown in the first column.
6. **Check:** Check speed (rpm), bore, gap and dimensions.

#### Standard Selection Example:

Select a coupling to connect a 55 kw, 1500 rpm electric motor driving a lobe-type blower. Motor shaft diameter is 60 mm, blower shaft diameter is 60 mm. Shaft extensions are 140 mm and 110 mm. Selection is replacing a gear-type coupling with a 3 mm gap.

1. **Determine Required Rating:**

$$\text{System Torque (Nm)} = \frac{55 \text{ kW} \times 9549}{1500 \text{ Rpm}} = 350 \text{ Nm}$$

2. **Service Factor:** From **Table 4** = 1,25
3. **Required Minimum Coupling Rating:**  
$$1,25 \times 350 \text{ Nm} = 438 \text{ Nm}$$
4. **Size:** From **page 11** a Size 1070T is the proper selection based on a torque rating of 904 Nm exceeding the required minimum coupling rating of 438 Nm.
5. **Check:** Allowable speed capacity of 4125 (T10) exceeds the required speed of 1500 rpm. Maximum bore capacity of 67 mm exceeds the actual shaft diameters.

### Type T63 Static (Holding) Brake Applications

1. **Size:** The brake rating must equal or exceed the application requirements. Determine the required coupling size by comparing the application loads (from Steps A and B below) to the coupling brake rating listed on **page 28**. Use the highest torque value calculated to determine the coupling size.

- A. For normal service applications, use the application torque in Nm.

$$\text{System Torque (Nm)} = \frac{\text{Transmitted kW} \times 9549}{\text{Rpm}}$$

- B. For repetitive high peak load applications, use the system peak torque in Nm. (Repetitive is defined as more than 1000 times during the expected coupling life.)

2. **Caliper Torque Brake Rating:** For the coupling size selected, compare the caliper brake torque rating on **page 28** to the holding torque requirement of the application. Regal Rexnord recommends that the caliper torque rating (min.) be at least two times the holding torque requirement for static applications to compensate for the possibility of foreign matter on the disc surfaces, loss of condition of the brake pad surfaces, or other conditions that may affect the holding ability of the caliper brake.

Caliper brakes and brake discs listed are designed primarily for static and/or emergency brake applications. **NOTE:** Check brake system and lining wear after emergency stops. They can, however, also be used for dynamic stopping if only used occasionally, such as shutting down the equipment for the day or between shift changes. For stopping high-inertia systems or for applications that require more frequent stopping, consult your local Regal Rexnord representative.

3. **Check:** Check maximum bores, speeds and dimensions.

### Type T63 Stopping or Service Brake Applications

1. **Size:** The coupling brake rating must equal or exceed the application requirements. Determine the required coupling size by comparing the application loads (from Steps A, B and C below) to the coupling brake rating listed on **page 28**. Use the highest torque value calculated to determine the coupling size.

- A. For the selected caliper brake and disc diameter, use the maximum brake torque in Nm.

- B. For normal service applications, use the application torque in Nm.

$$\text{System Torque (Nm)} = \frac{\text{Transmitted kW} \times 9549}{\text{Rpm}}$$

- C. For repetitive high peak load applications, use the system peak torque in Nm. (Repetitive is defined as more than 1000 times during the expected coupling life.)

2. **Check:** Check maximum bores, speeds and dimensions.

## How to Select

### Formula Selection Method (except T41/T44 & T63)

The Standard Selection Method can be used for most coupling selections. The procedures below should be used for:

- High Peak Loads.
- Brake Applications (where the brake disc or brake wheel is to be an integral part of the coupling, consult the Factory for design options).

Providing system peak torque and frequency, duty cycle and brake torque rating will allow for a more refined selection using the Formula Selection Method.

1. **High Peak Loads:** Use one of the following formulas for applications using motors with torque characteristics that are higher than normal; applications with intermittent operations, shock loading, inertia effects due to starting and stopping and/or system-induced repetitive high peak torques. System Peak Torque is the maximum torque that can exist in the system. Select a coupling with a torque rating equal to or greater than selection torque calculated below.

#### A. Non-Reversing High Peak Torque

$$\text{Selection Torque (Nm)} = \text{System Peak Torque}$$

or

$$\text{System Torque (Nm)} = \frac{\text{System Peak kW} \times 9549}{\text{Rpm}}$$

#### B. Reversing High Peak Torque

$$\text{Selection Torque (Nm)} = 2 \times \text{System Peak Torque}$$

or

$$\text{System Torque (Nm)} = \frac{2 \times \text{Peak kW} \times 9549}{\text{Rpm}}$$

- C. Occasional Peak Torques (Non-reversing) If a system peak torque occurs less than 1000 times during the expected coupling life, use the following formula:

$$\text{Selection Torque (Nm)} = 0,5 \times \text{System Peak Torque}$$

or

$$\text{System Torque (Nm)} = \frac{0,5 \times \text{Peak kW} \times 9549}{\text{Rpm}}$$

For reversing service select per step B.

2. **Brake Applications:** If the torque rating of the brake exceeds the motor torque, use the brake rating as follows:

$$\text{Selection Torque (Nm)} = \text{Brake Torque Rating} \times \text{S.F.}$$

### Formula Selection Example — High Peak Load:

Select a coupling for reversing service to connect a gear drive low-speed shaft to a runout mill table roll. The electric motor rating is 37 kW at the base speed and the system peak torque at the coupling is estimated to be 17000 Nm. Coupling speed is 77 rpm at the motor base speed. The drive shaft diameter is 100 mm with a key of 28 mm x 16 mm. The runout table roll diameter is 135 mm with a key of 36 mm x 20 mm. Maximum shaft gap is 180 mm long.

1. **Type:** Refer to **page 3** and select the appropriate coupling type.

#### 2. Required Minimum Coupling Rating:

Use the Reversing High Peak Torque formula in Step 1B.

$$2 \times 17000 = 34000 \text{ Nm} = \text{Selection Torque}$$

3. **Size:** From **page 16**, Size 1150T35 with a torque rating of 39800 Nm exceeds the selection torque of 34000 Nm.

4. **Check:** The 1150T35 has a maximum BE dimension of 187,5 mm; the shaft hub 270 mm, (**Table 15, page 34**); the T hub bore has a maximum bore of 215 mm) with one rectangular key (**Table 14, page 34**); and the allowable speed of 1500 rpm and the dimensions on **page 16**, meet the requirements.

**Table 1 — Coupling Ratings & Allowable Speeds**

| Coupling Size ① | kW per 100 Rpm ② | Torque Rating (Nm) ③ | Allowable Speeds — Rpm ④ |             |                    |       |
|-----------------|------------------|----------------------|--------------------------|-------------|--------------------|-------|
|                 |                  |                      | T10                      | T20 & T50 ⑤ | T31, T35 & T10/G82 | T70   |
| 1020T           | 0,005            | 52                   | 4500                     | 6000        | 3600               | —     |
| 1030T           | 0,016            | 149                  | 4500                     | 6000        | 3600               | 10000 |
| 1040T           | 0,026            | 249                  | 4500                     | 6000        | 3600               | —     |
| 1050T           | 0,046            | 435                  | 4500                     | 6000        | 3600               | 9000  |
| 1060T           | 0,072            | 684                  | 4350                     | 6000        | 3600               | —     |
| 1070T           | 0,104            | 994                  | 4125                     | 5500        | 3600               | 8200  |
| 1080T           | 0,215            | 2050                 | 3600                     | 4750        | 3600               | 7100  |
| 1090T           | 0,390            | 3730                 | 3600                     | 4000        | 3600               | 6000  |
| 1100T           | 0,657            | 6280                 | 2440                     | 3250        | 2440               | 4900  |
| 1110T           | 0,976            | 9320                 | 2250                     | 3000        | 2250               | 4500  |
| 1120T           | 1,43             | 13 700               | 2025                     | 2700        | 2025               | 4000  |
| 1130T           | 2,08             | 19 900               | 1800                     | 2400        | 1800               | 3600  |
| 1140T           | 2,99             | 28 600               | 1650                     | 2200        | 1650               | 3300  |
| 1150T           | 4,16             | 39 800               | 1500                     | 2000        | 1500               | —     |
| 1160T           | 5,86             | 55 900               | 1350                     | 1750        | 1350               | —     |
| 1170T           | 7,81             | 74 600               | 1225                     | 1600        | 1225               | —     |
| 1180T           | 10,8             | 103 000              | 1100                     | 1400        | 1100               | —     |
| 1190T           | 14,3             | 137 000              | 1050                     | 1300        | 1050               | —     |
| 1200T           | 19,5             | 186 000              | 900                      | 1200        | 900                | —     |
| 1210T           | 26,0             | 249 000              | 820                      | —           | —                  | —     |
| 1220T           | 35,1             | 336 000              | 730                      | —           | —                  | —     |
| 1230T           | 45,6             | 435 000              | 680                      | —           | —                  | —     |
| 1240T           | 58,6             | 559 000              | 630                      | —           | —                  | —     |
| 1250T           | 78,1             | 746 000              | 580                      | —           | —                  | —     |
| 1260T           | 97,6             | 932 000              | 540                      | —           | —                  | —     |

① Refer to **page 10** for General Information.

② kW per 100 Rpm and torque rating values for hubs with Taper-Lock® bushings differ from those shown above. Refer to **Table 18, page 36**.

③ Peak torque capacity is two times the published rating. Torque ratings for hubs with bushings differ from those shown, refer to **Table 18, page 36**.

④ Consult Factory for higher speeds.

⑤ Speeds shown above are for single Type T50 couplings; speeds for Type T50 Floating Shaft couplings are shown in **Table 12, page 26**.

## How to Select

### Type T41 Controlled Torque Couplings & T44 Controlled Torque Clutches

#### Type T41 Controlled Torque Couplings

1. **Running Torque:** Calculate normal running torque.

$$\text{Running Torque (Nm)} = \frac{\text{Required kW} \times 9549}{\text{Rpm}}$$

2. **Slip Torque:** Slip torque = Running Torque x 150% (Overload Setting.) Regal Rexnord recommends a minimum 150% overload setting for steady or moderate shock load applications. For heavy shock load applications, a 200% or greater overload setting may be required.
3. **Coupling Size:** Refer to **Table 8, page 17** — Trace down the Slip Torque column to a figure equal to or in excess of the calculated slip torque determined in Step 2. Read the coupling size in the next column.

#### 4. Check:

- A. Check shaft diameters against coupling maximum bores shown in **Table 8, page 17**. If selection does not have adequate bore capacity, refer to **Table 14, page 34**, or **Table 16, page 35**, for maximum bores with square or rectangular keys, or select the next larger size coupling.
- B. Check the required speed against the allowable speed shown in **Table 8**. If a higher speed is required, refer application details to the local Regal Rexnord™ representative.
- C. Check allowable slip torque times from Slip Torque Performance Charts on **pages 21-24**. The length of time a coupling can slip without exceeding its thermal capacity is a function of the slip torque setting and the operating speed. An automatic cutout switch, **page 20**, can be provided when damaging thermal conditions exist.
- D. Check application dimension requirements against selected coupling dimensions shown on **page 17**.
- E. Check usable shaft length to the coupling hub lengths on **page 15**. If necessary, overhang hubs within the limits specified on **page 20**.

#### Selection Example

Select a controlled torque coupling to connect a 15 kW, 1500 rpm, 160 L frame motor to the high-speed shaft of a gear drive driving a screw feeder. Motor shaft diameter is 42 mm with a usable shaft length of 110 mm. Drive high-speed shaft diameter is 35 mm with usable shaft length of 65 mm.

1. **Running Torque:** From Step 1 above:

$$\text{Running Torque (Nm)} = \frac{15 \text{ kW} \times 9549}{1500 \text{ Rpm}} = 95,5 \text{ Nm}$$

2. **Slip Torque:** From Step 2 above: Slip Torque = 95,5 x 150% = 143,2 Nm
3. **Size:** From **Table 8, page 17**, the Size 1040T41 has a maximum slip torque of 167 Nm.

#### 4. Check:

- A. From **Table 8, page 17**, the Size 1040T41 (T41 hub) has maximum bore capacity of only 35 mm and the "T" hub maximum bore capacity is 43 mm. The preferred mounting arrangement is to have the T41 hub on the motor (for optimum cooling during slippage). Therefore, select the size 1050T41 with a maximum T41 hub bore of 45 mm.
- B. Allowable Speed of 3600 rpm exceeds required 1750 rpm.
- C. From **page 21**, the Size 1050T41 with slip torque setting of 143,2 Nm and running speed of 1500 rpm will permit 27 seconds slip if followed by 9 minutes of non-slip.
- D. See **page 17** for dimensions.
- E. Usable shaft length of motor is 110 mm and "W" dimension for T41 hub is 87,4 mm, therefore no overhang required. Usable shaft length of drive is 65 mm and "C" dimension of "T" hub is 60,5 mm, therefore no overhang required.

### Type T44 Controlled Torque Clutches

#### 1. Running Torque

$$\text{Running Torque (Nm)} = \frac{\text{Required kW} \times 9549}{\text{Rpm}}$$

2. **Slip Torque:** Slip Torque = Running Torque x 150% (Overload Setting.) Regal Rexnord recommends a minimum 150% overload setting for steady or moderate shock load applications. For heavy shock load applications a 200% or greater overload setting may be required.
3. **Clutch Size:** Refer to **Table 9, page 18** — Trace down the Slip Torque column to a figure equal to or in excess of the calculated slip torque determined in Step 2. Read clutch size in the next column.
  - A. Check shaft diameters against clutch maximum bores shown in **Table 9**. If selection does not have adequate bore capacity, refer to **Table 16, page 35**, for maximum bores with square or rectangular keys, or select the next larger size clutch.
  - B. Check the required speed against the allowable speed shown in **Table 9**. If a higher speed is required, refer application details to the local Regal Rexnord representative.
  - C. Check allowable slip torque times from Slip Torque Performance Charts on **pages 21-24**. The length of time a clutch can slip without exceeding its thermal capacity is a function of the slip torque setting and the operating speed. An automatic cutout switch, **page 20**, can be provided when damaging thermal conditions exist.
  - D. Check application dimension requirements against selected clutch dimensions shown on **page 18**.
  - E. Check usable shaft length to the clutch hub length on **page 18**. If necessary, overhang hub within the limits specified on **page 20**.

# Quick Selection Method

1. Select Coupling Type.

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

2. Determine Service Factor.

- A. For MOTOR, TURBINE or ENGINE driven applications, refer to **Table 4 and Table 5**.
- B. For BRAKE or HIGH PEAK LOAD applications, refer to the Formula Selection Method shown on **page 5**.

3. Determine Equivalent Power.

Refer to **Table 2** — Under the actual kW required and opposite the service factor determined in Step 2, read the equivalent kW.

4. Determine Coupling Size.

- A. Refer to **Table 3** — Trace horizontally from the required speed to a kW value equal to or larger than the kW determined in Step 3. Read the coupling size at top of column.
- B. Check shaft diameters on coupling maximum bores shown in **Table 14 thru Table 17, pages 34 and 35**, for the type of coupling selected. If a larger bore is required, select a larger coupling.

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

| Service Factor<br>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   | 110 | 132 | 150 | 185 | 200 | 220 | 250 | 300  |
| 1.00                | 0.25      | 0.37 | 0.55 | 0.75 | 1.1 | 1.5 | 2.2 | 3    | 4  | 5.5  | 7.5  | 9.2  | 11.0 | 15.0 | 18.5 | 22.0 | 30.0 | 37.0 | 45.0 | 55.0 | 110 | 132 | 150 | 185 | 200 | 220 | 250 | 300  |
| 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 | 138 | 165 | 188 | 231 | 250 | 275 | 313 | 375  |
| 1.50                | 0.38      | 0.56 | 0.83 | 1.1  | 1.7 | 2.3 | 3.3 | 4.5  | 6  | 8.3  | 11.3 | 13.8 | 16.5 | 22.5 | 27.8 | 33.0 | 45.0 | 55.5 | 67.5 | 82.5 | 165 | 198 | 225 | 278 | 300 | 330 | 375 | 450  |
| 1.75                | 0.44      | 0.65 | 0.96 | 1.3  | 1.9 | 2.6 | 3.9 | 5.3  | 7  | 9.6  | 13.1 | 16.1 | 19.3 | 26.3 | 32.4 | 38.5 | 52.5 | 64.8 | 78.8 | 96.3 | 193 | 231 | 263 | 324 | 350 | 385 | 438 | 525  |
| 2.00                | 0.50      | 0.74 | 1.1  | 1.5  | 2.2 | 3.0 | 4.4 | 6.0  | 8  | 11.0 | 15.0 | 18.4 | 22.0 | 30.0 | 37.0 | 44.0 | 60.0 | 74.0 | 90.0 | 110  | 220 | 264 | 300 | 370 | 400 | 440 | 500 | 600  |
| 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  | 275 | 330 | 375 | 463 | 500 | 550 | 625 | 750  |
| 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  | 330 | 396 | 450 | 555 | 600 | 660 | 750 | 900  |
| 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  | 385 | 462 | 525 | 648 | 700 | 770 | 875 | 1050 |

**Table 3 — Coupling Selection ... Based on Equivalent kW Ratings**

|               | 1020T      | 1030T    | 1040T    | 1050T    | 1060T    | 1070T    | 1080T    | 1090T    | 1100T    | 1110T    | 1120T    | 1130T    |
|---------------|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Max Bore (mm) | 28         | 35       | 43       | 50       | 56       | 67       | 80       | 95       | 110      | 120      | 140      | 170      |
| Max Speed T10 | 4500 rpm   | 4500 rpm | 4500 rpm | 4500 rpm | 4350 rpm | 4125 rpm | 3600 rpm | 3600 rpm | 2440 rpm | 2250 rpm | 2025 rpm | 1800 rpm |
| Max Speed T20 | 6000 rpm   | 6000 rpm | 6000 rpm | 6000 rpm | 6000 rpm | 5500 rpm | 4750 rpm | 4000 rpm | 3250 rpm | 3000 rpm | 2700 rpm | 2400 rpm |
| Torque (Nm)   | 52         | 149      | 249      | 435      | 685      | 995      | 2050     | 3730     | 6275     | 9320     | 13670    | 19885    |
| kW / 100 rpm  | 0,005      | 0,016    | 0,026    | 0,046    | 0,072    | 0,104    | 0,215    | 0,39     | 0,657    | 0,976    | 1,43     | 2,08     |
| rpm           | kW Ratings |          |          |          |          |          |          |          |          |          |          |          |
| 4500          | 24.5       | 70.2     | 117      | 205      | 322 ②    | 469 ②    | 966 ②    | —        | —        | —        | —        | —        |
| 3600          | 19.6       | 56.2     | 94       | 164      | 258      | 375      | 773      | 1410     | —        | —        | —        | —        |
| 3000          | 16.3       | 46.8     | 78       | 137      | 215      | 313      | 644      | 1170     | 1970 ②   | 2930 ②   | —        | —        |
| 2500          | 13.6       | 39.0     | 65.2     | 114      | 179      | 260      | 537      | 977      | 1650 ②   | 2440 ②   | 3580 ②   | —        |
| 2100          | 11.4       | 32.8     | 54.8     | 96       | 150      | 219      | 451      | 820      | 1380     | 2050     | 3010 ②   | 4370 ②   |
| 1800          | 9.8        | 28.1     | 46.9     | 82       | 129      | 188      | 386      | 703      | 1180     | 1760     | 2580     | 3750     |
| 1750          | 9.5        | 27.3     | 45.6     | 80       | 125      | 182      | 376      | 684      | 1150     | 1710     | 2510     | 3640     |
| 1450          | 7.9        | 22.6     | 37.8     | 66.1     | 104      | 151      | 311      | 566      | 954      | 1420     | 2080     | 3020     |
| 1170          | 6.4        | 18.3     | 30.5     | 53.3     | 84       | 122      | 251      | 457      | 770      | 1140     | 1670     | 2440     |
| 1000          | 5.4        | 15.6     | 26.1     | 45.6     | 72       | 104      | 215      | 391      | 658      | 976      | 1430     | 2080     |
| 870           | 4.7        | 13.6     | 22.7     | 39.6     | 62.3     | 91       | 187      | 340      | 572      | 849      | 1250     | 1810     |
| 720           | 3.9        | 11.2     | 18.8     | 32.8     | 51.6     | 75       | 155      | 281      | 474      | 703      | 1030     | 1500     |
| 650           | 3.5        | 10.1     | 16.9     | 29.6     | 46.5     | 67.7     | 140      | 254      | 428      | 634      | 931      | 1350     |
| 580           | 3.2        | 9.1      | 15.1     | 26.4     | 41.5     | 60.4     | 125      | 227      | 382      | 566      | 830      | 1210     |
| 520           | 2.8        | 8.1      | 13.6     | 23.7     | 37.2     | 54.2     | 112      | 203      | 342      | 508      | 744      | 1080     |
| 420           | 2.3        | 6.6      | 11.0     | 19.1     | 30.1     | 43.8     | 90       | 164      | 276      | 410      | 601      | 875      |
| 350           | 1.9        | 5.5      | 9.1      | 15.9     | 25.1     | 36.5     | 75       | 137      | 230      | 342      | 501      | 729      |
| 280           | 1.5        | 4.4      | 7.3      | 12.8     | 20.0     | 29.2     | 60.1     | 109      | 184      | 273      | 401      | 583      |
| 230           | 1.3        | 3.6      | 6.0      | 10.5     | 16.5     | 24.0     | 49.4     | 90       | 151      | 224      | 329      | 479      |
| 190           | 1.0        | 3.0      | 5.0      | 8.7      | 13.6     | 19.8     | 40.8     | 74.2     | 125      | 185      | 272      | 396      |
| 155           | 0.8        | 2.4      | 4.0      | 7.1      | 11.1     | 16.2     | 33.3     | 60.5     | 102      | 151      | 222      | 323      |
| 125           | 0.68       | 2.0      | 3.3      | 5.7      | 9.0      | 13.0     | 26.8     | 48.8     | 82       | 122      | 179      | 260      |
| 100           | 0.54       | 1.6      | 2.6      | 4.6      | 7.2      | 10.4     | 21.5     | 39.1     | 65.8     | 98       | 143      | 208      |
| 84            | 0.46       | 1.3      | 2.2      | 3.8      | 6.0      | 8.8      | 18.0     | 32.8     | 55.3     | 82       | 120      | 175      |
| 68            | 0.37       | 1.06     | 1.8      | 3.1      | 4.9      | 7.1      | 14.6     | 26.6     | 44.7     | 66.4     | 97       | 142      |
| 56            | 0.30       | 0.87     | 1.5      | 2.6      | 4.0      | 5.8      | 12.0     | 21.9     | 36.8     | 54.7     | 80       | 117      |
| 45            | 0.25       | 0.70     | 1.2      | 2.0      | 3.2      | 4.7      | 9.7      | 17.6     | 29.6     | 43.9     | 64.4     | 94       |
| 37            | 0.20       | 0.58     | 1.0      | 1.7      | 2.6      | 3.9      | 7.9      | 14.5     | 24.3     | 36.1     | 53.0     | 77       |
| 30            | 0.16       | 0.47     | 0.8      | 1.4      | 2.1      | 3.1      | 6.4      | 11.7     | 19.7     | 29.3     | 42.9     | 62.5     |
| 25            | 0.14       | 0.39     | 0.65     | 1.1      | 1.8      | 2.6      | 5.4      | 9.8      | 16.5     | 24.4     | 35.8     | 52.1     |
| 20            | 0.11       | 0.31     | 0.52     | 0.91     | 1.4      | 2.1      | 4.3      | 7.8      | 13.2     | 19.5     | 28.6     | 41.6     |
| 16.5          | 0.090      | 0.26     | 0.43     | 0.75     | 1.2      | 1.7      | 3.5      | 6.4      | 10.9     | 16.1     | 23.6     | 34.4     |
| 13.5          | 0.074      | 0.21     | 0.35     | 0.61     | 0.97     | 1.4      | 2.9      | 5.3      | 8.9      | 13.2     | 19.3     | 28.1     |
| 11            | 0.060      | 0.17     | 0.29     | 0.50     | 0.79     | 1.1      | 2.4      | 4.3      | 7.2      | 10.7     | 15.7     | 22.9     |
| 9             | 0.049      | 0.14     | 0.23     | 0.41     | 0.64     | 0.94     | 1.9      | 3.5      | 5.9      | 8.8      | 12.9     | 18.7     |
| 7.5           | 0.041      | 0.12     | 0.20     | 0.34     | 0.54     | 0.78     | 1.6      | 2.9      | 4.9      | 7.3      | 10.7     | 15.6     |
| 5             | 0.027      | 0.08     | 0.13     | 0.23     | 0.36     | 0.52     | 1.1      | 2.0      | 3.3      | 4.9      | 7.2      | 10.4     |

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

② Ratings apply to Type T20 only.

## Quick Selection Method

- C. Check the required speed against the allowable speed shown in **Table 1** for the type of coupling selected. For Type T50 Floating Shaft design, check the allowable speed from **Table 12** on **page 26**. If a higher speed is required, refer application details to the local Rexnord representative.
- D. Check application dimension requirements against selected coupling type dimensions shown on **pages 11-32**.

### Example:

Select a coupling to connect a 250 kW, 1170 rpm electric motor to the drive high-speed shaft of a maneuvering winch. The shaft gap is 3 to 4 mm. The motor shaft diameter is 180 mm and the drive shaft diameter is 160 mm. The motor and drive shaft extensions are each 152 mm long.

1. Select Coupling Type — To connect close-coupled shafts (3 to 4 mm gap), the Type T10 or T20 coupling is the proper selection. Type T10 is selected.
2. Determine Service Factor — From **Table 4**, the service factor is 1.5.
3. Determine Equivalent kW — From **Table 2**, the equivalent hp is 250 kW.
4. Select Coupling Size — (A) From **Table 3**, the coupling size is 1150T10. (B) From **Table 14**, the maximum bore with square key is 215 mm. (C) From **Table 1**, the allowable speed of a 1150T10 is 1550 rpm. (D) Dimensions for the 1150T10 coupling shown on **page 11** satisfies the application requirements.

**Table 3 — Coupling Selection ... Based on Equivalent kW Ratings (Continued)**

|               | 1140T      | 1150T    | 1160T    | 1170T    | 1180T    | 1190T    | 1200T   | 1210T   | 1220T   | 1230T   | 1240T   | 1250T ② | 1260T ② |
|---------------|------------|----------|----------|----------|----------|----------|---------|---------|---------|---------|---------|---------|---------|
| Max Bore (mm) | 200        | 215      | 240      | 280      | 300      | 335      | 360     | 390     | 420     | 450     | 480     | ②       | ②       |
| Max Speed T10 | 1650 rpm   | 1500 rpm | 1350 rpm | 1225 rpm | 1100 rpm | 1050 rpm | 900 rpm | 820 rpm | 730 rpm | 680 rpm | 630 rpm | 580 rpm | 540 rpm |
| Max Speed T20 | 2200 rpm   | 2000 rpm | 1750 rpm | 1600 rpm | —        | —        | —       | —       | —       | —       | —       | —       | —       |
| Torque (Nm)   | 28585      | 39770    | 55930    | 74570    | 103400   | 136710   | 186430  | 248570  | 335570  | 435000  | 559300  | 745700  | 932100  |
| kW / 100 rpm  | 2,99       | 4,16     | 5,86     | 7,81     | 10,8     | 14,3     | 19,5    | 26      | 35,1    | 45,6    | 58,6    | 78,1    | 97,6    |
| rpm           | kW Ratings |          |          |          |          |          |         |         |         |         |         |         |         |
| 4500          | —          | —        | —        | —        | —        | —        | —       | —       | —       | —       | —       | —       | —       |
| 3600          | —          | —        | —        | —        | —        | —        | —       | —       | —       | —       | —       | —       | —       |
| 3000          | —          | —        | —        | —        | —        | —        | —       | —       | —       | —       | —       | —       | —       |
| 2500          | —          | —        | —        | —        | —        | —        | —       | —       | —       | —       | —       | —       | —       |
| 2100          | 6300 ①     | 8760 ①   | —        | —        | —        | —        | —       | —       | —       | —       | —       | —       | —       |
| 1800          | 5400 ①     | 7510 ①   | 10500 ①  | —        | —        | —        | —       | —       | —       | —       | —       | —       | —       |
| 1750          | 5250 ①     | 7300 ①   | 10200 ①  | 13700 ①  | —        | —        | —       | —       | —       | —       | —       | —       | —       |
| 1450          | 4350       | 6050     | 8490 ①   | 11300 ①  | —        | —        | —       | —       | —       | —       | —       | —       | —       |
| 1170          | 3510       | 4880     | 6850     | 9140     | —        | —        | —       | —       | —       | —       | —       | —       | —       |
| 1000          | 3000       | 4170     | 5860     | 7810     | 10800    | 14300    | —       | —       | —       | —       | —       | —       | —       |
| 870           | 2610       | 3630     | 5100     | 6790     | 9420     | 12500    | 17000   | —       | —       | —       | —       | —       | —       |
| 720           | 2160       | 3000     | 4220     | 5620     | 7800     | 10300    | 14100   | 18800   | 25300   | —       | —       | —       | —       |
| 650           | 1950       | 2710     | 3810     | 5080     | 7040     | 9310     | 12700   | 17000   | 22900   | 29600   | —       | —       | —       |
| 580           | 1740       | 2420     | 3400     | 4530     | 6280     | 8300     | 11300   | 15100   | 20400   | 26400   | 33900   | 45300   | —       |
| 520           | 1560       | 2170     | 3050     | 4060     | 5630     | 7440     | 10200   | 13600   | 18300   | 23700   | 30400   | 40600   | 50800   |
| 420           | 1260       | 1750     | 2460     | 3280     | 4550     | 6010     | 8200    | 11000   | 14800   | 19100   | 24600   | 32800   | 41000   |
| 350           | 1050       | 1460     | 2050     | 2730     | 3790     | 5010     | 6830    | 9140    | 12300   | 15900   | 20500   | 27300   | 34200   |
| 280           | 840        | 1170     | 1640     | 2190     | 3030     | 4010     | 5470    | 7310    | 9860    | 12800   | 16400   | 21900   | 27300   |
| 230           | 690        | 959      | 1350     | 1800     | 2490     | 3290     | 4490    | 6000    | 8100    | 10500   | 13500   | 18000   | 22500   |
| 190           | 570        | 792      | 1110     | 1480     | 2060     | 2720     | 3710    | 4960    | 6690    | 8660    | 11100   | 14800   | 18500   |
| 155           | 465        | 646      | 908      | 1210     | 1680     | 2220     | 3030    | 4050    | 5460    | 7060    | 9070    | 12100   | 15100   |
| 125           | 375        | 521      | 732      | 976      | 1350     | 1790     | 2440    | 3260    | 4400    | 5690    | 7310    | 9760    | 12200   |
| 100           | 300        | 417      | 586      | 781      | 1080     | 1430     | 1950    | 2610    | 3520    | 4560    | 5850    | 7810    | 9760    |
| 84            | 252        | 350      | 492      | 656      | 910      | 1200     | 1640    | 2190    | 2960    | 3830    | 4910    | 6560    | 8200    |
| 68            | 204        | 284      | 398      | 531      | 736      | 974      | 1330    | 1770    | 2390    | 3100    | 3980    | 5310    | 6640    |
| 56            | 168        | 234      | 328      | 437      | 606      | 802      | 1090    | 1460    | 1970    | 2550    | 3280    | 4370    | 5470    |
| 45            | 135        | 188      | 264      | 351      | 487      | 644      | 879     | 1170    | 1580    | 2050    | 2630    | 3510    | 4390    |
| 37            | 111        | 154      | 217      | 289      | 401      | 530      | 722     | 966     | 1300    | 1690    | 2160    | 2890    | 3610    |
| 30            | 90,0       | 125      | 176      | 234      | 325      | 429      | 586     | 783     | 1060    | 1370    | 1760    | 2340    | 2930    |
| 25            | 75,0       | 104      | 146      | 195      | 271      | 358      | 488     | 653     | 880     | 1140    | 1460    | 1950    | 2440    |
| 20            | 60,0       | 83       | 117      | 156      | 217      | 286      | 390     | 522     | 704     | 911     | 1170    | 1560    | 1950    |
| 16,5          | 49,5       | 68,8     | 97       | 129      | 179      | 236      | 322     | 431     | 581     | 752     | 965     | 1290    | 1610    |
| 13,5          | 40,5       | 56,3     | 79       | 105      | 146      | 193      | 264     | 352     | 475     | 615     | 790     | 1050    | 1320    |
| 11,0          | 33,0       | 45,9     | 64,4     | 85,9     | 119      | 157      | 215     | 287     | 387     | 501     | 644     | 859     | 1070    |
| 9,0           | 27,0       | 37,5     | 52,7     | 70,3     | 97       | 129      | 176     | 235     | 317     | 410     | 527     | 703     | 878     |
| 7,5           | 22,5       | 31,3     | 43,3     | 58,0     | 81       | 107      | 146     | 196     | 264     | 342     | 439     | 586     | 732     |
| 5,0           | 15,0       | 20,9     | —        | —        | 54       | 72       | 98      | 131     | 176     | 228     | 293     | 390     | 488     |

① Ratings apply to Type T20 only.

② Refer to Regal Rexnord.



# Service Factors

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

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

| Application                                      | Service Factor      | Application                                | Service Factor      |
|--|---------------------|--|---------------------|
| <b>AERATOR</b> .....                             | 2.0                 | <b>HAMMERMILL</b> .....                    | 1.75                |
| <b>AGITATORS</b>                                 |                     | <b>LAUNDRY WASHER OR TUMBLER</b> .....     | 2.0                 |
| Vertical and Horizontal                          |                     | <b>LINE SHAFTS</b>                         |                     |
| Screw, Propeller, Paddle.....                    | 1.0                 | Any Processing Machinery.....              | 1.5                 |
| <b>BARGE HAUL PULLER</b> .....                   | 1.5                 | <b>MACHINE TOOLS</b>                       |                     |
| <b>BLOWERS</b>                                   |                     | 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                |
| <b>CAR DUMPERS</b> .....                         | 2.5                 | Main Drive.....                            | 1.5                 |
| <b>CAR PULLERS</b> .....                         | 1.5                 | <b>MAN LIFTS</b> .....                     | <b>Not Approved</b> |
| <b>CLARIFIER OR CLASSIFIER</b> .....             | 1.0                 | <b>METAL FORMING MACHINES</b>              |                     |
| <b>COMPRESSORS</b>                               |                     | 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                 |
| ② With Flywheel and Gear between Compressor      |                     | Coilers and Uncoilers.....                 | 1.5                 |
| and Prime Mover                                  |                     | <b>MIXERS (see Agitators)</b>              |                     |
| 1 cylinder, single acting.....                   | 3.0                 | Concrete.....                              | 1.75                |
| 1 cylinder, double acting.....                   | 3.0                 | Muller.....                                | 1.5                 |
| 2 cylinders, single acting.....                  | 3.0                 | <b>PRESS, PRINTING</b> .....               | 1.5                 |
| 2 cylinders, double acting.....                  | 3.0                 | <b>PUG MILL</b> .....                      | 1.75                |
| 3 cylinders, single acting.....                  | 3.0                 | <b>PULVERIZERS</b>                         |                     |
| 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                | <b>PUMPS</b>                               |                     |
| <b>③ CONVEYORS</b>                               |                     | Boiler Feed.....                           | 1.5                 |
| Apron, Assembly, Belt, Chain, Flight, Screw..... | 1.25                | Centrifugal — Constant Speed.....          | 1.0                 |
| Bucket.....                                      | 1.0                 | Frequent Speed Changes under Load.....     | 1.25                |
| Live Roll, Shaker and Reciprocating.....         | 3.0                 | Descaling, with accumulators.....          | 1.25                |
| <b>③④ CRANES AND HOIST</b>                       |                     | Gear, Rotary, or Vane.....                 | 1.25                |
| Main Hoist.....                                  | 1.75 ③              | Reciprocating, Plunger Piston              |                     |
| Skip Hoist.....                                  | 1.75 ③              | 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                |
| <b>DYNAMOMETER</b> .....                         | 1.0                 | 3 or more cylinders.....                   | 1.5                 |
| <b>ELEVATORS</b>                                 |                     | Screw Pump, Progressing Cavity.....        | 1.25                |
| Bucket, Centrifugal Discharge.....               | 1.25                | Vacuum Pump.....                           | 1.25                |
| Freight or Passenger.....                        | <b>Not Approved</b> | <b>SCREENS</b>                             |                     |
| Gravity Discharge.....                           | 1.25                | Air Washing.....                           | 1.0                 |
| <b>ESCALATORS</b> .....                          | <b>Not Approved</b> | Grizzly.....                               | 2.0                 |
| <b>EXCITER, GENERATOR</b> .....                  | 1.0                 | Rotary Coal or Sand.....                   | 1.5                 |
| <b>EXTRUDER, PLASTIC</b> .....                   | 1.5                 | Vibrating.....                             | 2.5                 |
| <b>FANS</b>                                      |                     | Water.....                                 | 1.0                 |
| Centrifugal.....                                 | 1.0                 | <b>SKI TOWS &amp; LIFTS</b> .....          | <b>Not Approved</b> |
| Cooling Tower.....                               | 2.0                 | <b>STEERING GEAR</b> .....                 | 1.0                 |
| Forced Draft — Across the Line start.....        | 1.5                 | <b>STOKER</b> .....                        | 1.0                 |
| Forced Draft Motor driven thru fluid             |                     | <b>TIRE SHREDDER</b> .....                 | 1.50                |
| or electric slip clutch.....                     | 1.0                 | <b>TUMBLING BARREL</b> .....               | 1.75                |
| Gas Recirculating.....                           | 1.5                 | <b>WINCH, MANEUVERING</b>                  |                     |
| Induced Draft with damper control                |                     | Dredge, Marine.....                        | 1.5                 |
| or blade cleaner.....                            | 1.25                | <b>WINDLASS</b> .....                      | 1.5                 |
| Induced Draft without controls.....              | 2.0                 | <b>WOODWORKING MACHINERY</b> .....         | 1.0                 |
| <b>FEEDERS</b>                                   |                     | <b>WORK LIFT PLATFORMS</b> .....           | <b>Not Approved</b> |
| Apron, Belt, Disc, Screw.....                    | 1.0                 |  |                     |
| Reciprocating.....                               | 2.5                 |  |                     |
| <b>GENERATORS</b>                                |                     |  |                     |
| 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 ⑥ |      |     |      | 6 or more ① |     |      |     |      |     |
|---------------------|----------|------|-----|------|-------------|-----|------|-----|------|-----|
|                     | 1.0      | 1.25 | 1.5 | 1.75 | 2.0         | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 |
| <b>Table 4 S.F.</b> | 1.0      | 1.25 | 1.5 | 1.75 | 2.0         | 1.0 | 1.25 | 1.5 | 1.75 | 2.0 |
| <b>Engine S.F.</b>  | 2.0      | 2.25 | 2.5 | 2.75 | 3.0         | 1.5 | 1.75 | 2.0 | 2.25 | 2.5 |

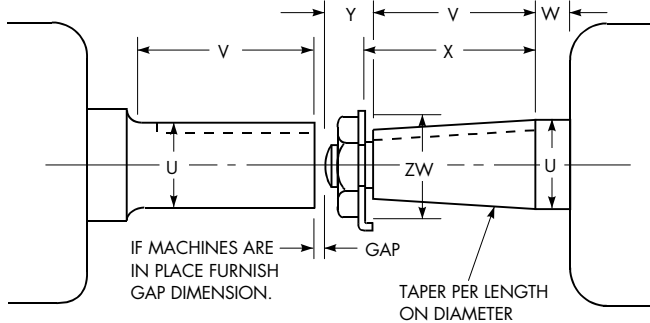
- ⑤ To use **Table 5**, first determine application service factor from **Table 4**. Use that factor to determine Engine Service Factor from **Table 5**. When service factor from **Table 4** is greater than 2.0, or where 1, 2 or 3 cylinder engines are involved, refer complete application details to Regal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

| Industry  | Service Factor      | Industry   | Service Factor   |
|---|---------------------|--|------------------|
| <b>AGGREGATE PROCESSING, CEMENT, MINING KILNS; TUBE, ROD AND BALL MILLS</b> |                     | 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                | <b>OIL INDUSTRY</b>                                |                  |
| <b>BREWING AND DISTILLING</b>   |                     | 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                 | <b>PAPER MILLS</b>                                 |                  |
| Mash Tub.....   | 1.25                | Barker Auxiliary, Hydraulic.....                   | 2.0              |
| Scale Hopper, Frequent Peaks.....   | 1.75                | Barker, Mechanical.....                            | 2.0              |
| <b>CLAY WORKING INDUSTRY</b>  |                     | 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              |
| <b>DREDGES</b>  |                     | 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             |
| <b>FOOD INDUSTRY</b>  |                     | Cutter, Felt Whipper.....                          | 2.0              |
| Beet Slicer.....  | 1.75                | Lyerder.....                                       | 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                | Fourdrinier.....                                   | 1.75             |
| <b>LUMBER</b>   |                     | 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                | <b>RUBBER INDUSTRY</b>                             |                  |
| <b>④ METAL ROLLING MILLS</b>  |                     | 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 —   |                     | <b>SEWAGE DISPOSAL EQUIPMENT</b>                   |                  |
| Strip or Sheet Mills.....   | Refer to Factory    | Bar Screen, Chemical Feeders, Collectors,          |                  |
| Reversing Blooming.....   | Refer to Factory    | Dewatering Screen, Grit Collector.....             | 1.0              |
| Stabbing Mills.....   | Refer to Factory    | <b>SUGAR INDUSTRY</b>                              |                  |
| 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 Driver 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                 | <b>TEXTILE INDUSTRY</b>                            |                  |
| 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                 |  |                  |

## Service Factors

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

| Torque Demands 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       |



## Products

### General Information

- Regal Rexnord™ standards apply unless otherwise specified.
- All dimensions are for reference only and are subject to change without notice unless certified.
- Unless otherwise specified, Falk® coupling hub Sizes 1020 thru 1090 will be bored for clearance fit with a setscrew over the keyway. Sizes 1100 and larger will be furnished for interference fit without a setscrew (see **Table 27, page 40**). Recommended key sizes for the listed maximum bores are shown in **Table 26 on page 40**.
- Torque ratings of couplings utilizing Taper-Lock® bushings can differ from those that do not. Refer to Regal Rexnord for details.
- If Factory is to supply coupling hubs bored for Taper-Lock bushings, the bushing manufacturer **MUST** be noted on the order.
- Consult Regal Rexnord when limited end float is required or application temperature exceeds 121°C.

## How to Order

The following information is necessary to quote or ship to your exact requirements. Prompt service is assured if this information is given on your inquiry or order.

- Application: Driver & Driven
- Power: Normal kW, Maximum kW or Torque (Nm)
- Speed (rpm)
- For Type T63 Disc Brake Couplings, furnish brake requirements.
  - Holding torque requirement.
  - WR<sup>2</sup> of rotating parts (at brake location).
  - Frequency of stops.
  - Rate of deceleration required — desired stop time and stopping rpm.
- Quantity
- Coupling Size and Type e.g., 110T41 or 1070T10
- Shaft Gap or distance between shaft ends (BE Dimension)
- Bore Sizes: Must specify clearance or interference fit, or fit will be furnished per **Table 27, page 40**. Bore sizes will be furnished as per **Table 28 on page 40** or **Table 30 on pages 41 and 42** unless specified differently.
- Shaft Dimensions as follows:

### For Straight Shafts:

| Driving Shaft    | Driven Shaft     |
|------------------|------------------|
| Diameter U _____ | Diameter U _____ |
| Tolerance _____  | Tolerance _____  |
| Length V _____   | Length V _____   |
| Keyway _____     | Keyway _____     |

**NOTE:** Provide shaft tolerances if different than those shown in **Table 27 through Table 30, pages 40-42**. Unless otherwise specified, keyway sizes in inch shafts will be furnished based on key sizes listed in **Table 26, page 40**, to Regal Rexnord tolerances; metric keyways will be furnished for keys listed in **Table 26, page 40** per ISO/R773-1969 (ANSI/AGMA 9112) and Js9 width tolerances. For other shaft/bore requirements, consult Regal Rexnord.

**For Taper Shafts:** keyway is assumed to be parallel to the bore.

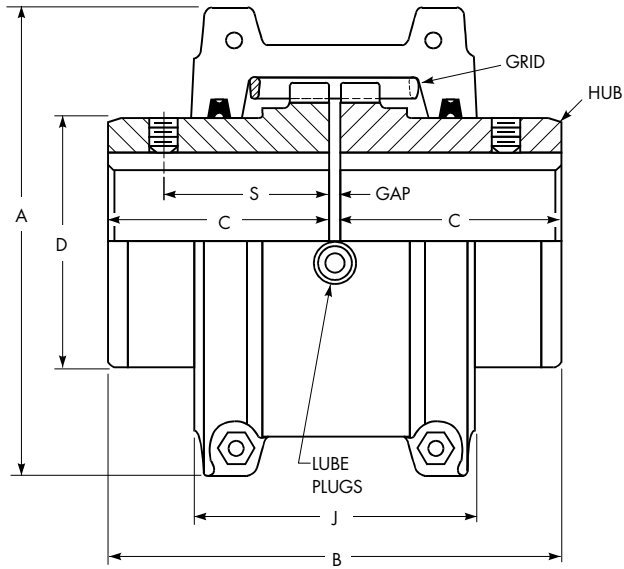
|                  |                    |
|------------------|--------------------|
| Diameter U _____ | Across Flats _____ |
| Length V _____   | Corners ZW _____   |
| Length W _____   | Taper _____        |
| Length X _____   | Keyway _____       |
| Length Y _____   |                    |

### Factory Warranty

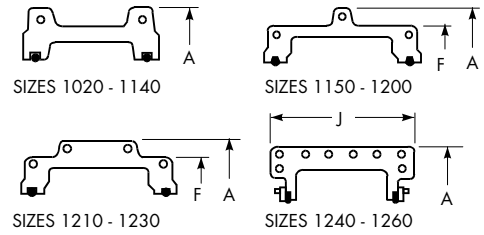
We're so confident in the performance and reliability of our latest generation of Falk and Regal Rexnord gear drives that we're backing this comprehensive offering with the best standard warranty in the business. Our full, 3-year Heavy-Duty Warranty provides "shaft-to-shaft" protection on all Falk components — including bearings and seals. It's an industry first . . . and one more powerful reason why Regal Rexnord is your ultimate bottom-line drive and coupling value. ① Steelflex grid couplings are warranted for 5 Years when lubricated with Falk Long Term Grease (LTG).

- ① Warranty extends for 3 years from date of shipment. Does not apply to Falk Omnibox®, Ultramite®, Fluid Couplings, RENEW® and spare parts. Warranty applies to Steelflex® and Lifelign® couplings with the use of Falk LTG.

# Close-Coupled Type T10



COVER PROFILES – HORIZONTAL SPLIT



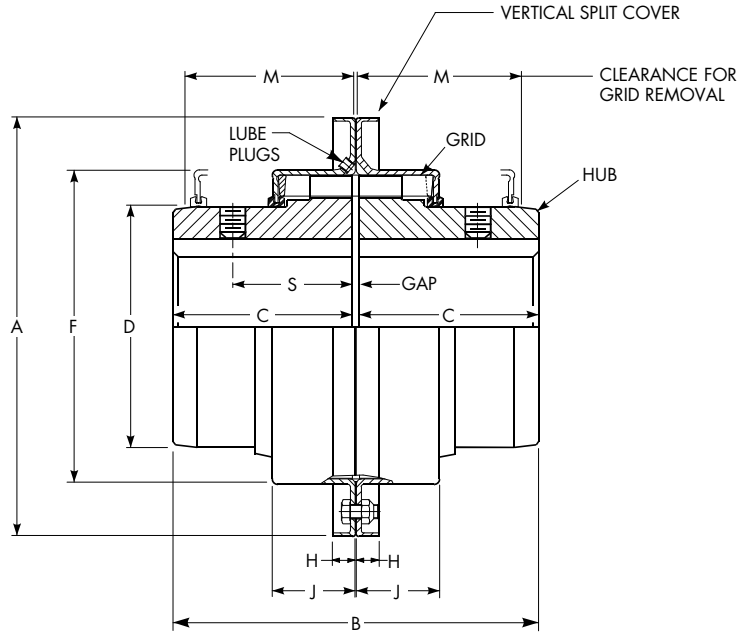
Sizes 1020 thru 1230T10 covers are cast aluminum alloy;  
 Sizes 1240 thru 1260T10 are fabricated steel.

## Dimensions (mm)

| Size ① | Torque Rating (Nm) ② | Allow Speed RPM ③ | Max Bore (mm) ④ | Min Bore (mm) ⑤ | Cplg Wt with No Bore (kg) | Lube Wt (kg) | A      | B     | C     | D     | F     | J     | S    | GAP |
|--------|----------------------|-------------------|-----------------|-----------------|---------------------------|--------------|--------|-------|-------|-------|-------|-------|------|-----|
| 1020T  | 52                   | 4500              | 28              | 13              | 1,92                      | 0,0272       | 97,0   | 98,2  | 47,6  | 39,7  | –     | 66,7  | 39,1 | 3   |
| 1030T  | 149                  | 4500              | 35              | 13              | 2,58                      | 0,0408       | 105,7  | 98,2  | 47,6  | 49,2  | –     | 68,3  | 39,1 | 3   |
| 1040T  | 249                  | 4500              | 43              | 13              | 3,34                      | 0,0544       | 114,3  | 104,6 | 50,8  | 57,2  | –     | 69,9  | 40,1 | 3   |
| 1050T  | 435                  | 4500              | 50              | 13              | 5,44                      | 0,068        | 135,1  | 123,6 | 60,3  | 66,7  | –     | 80,9  | 44,7 | 3   |
| 1060T  | 684                  | 4350              | 56              | 20              | 7,44                      | 0,0862       | 147,8  | 130,0 | 63,5  | 76,2  | –     | 93,5  | 52,3 | 3   |
| 1070T  | 994                  | 4125              | 67              | 20              | 10,4                      | 0,113        | 158,8  | 155,4 | 76,2  | 87,3  | –     | 96,8  | 53,8 | 3   |
| 1080T  | 2 050                | 3600              | 80              | 27              | 17,9                      | 0,172        | 190,5  | 180,8 | 88,9  | 104,8 | –     | 115,6 | 64,5 | 3   |
| 1090T  | 3 730                | 3600              | 95              | 27              | 25,6                      | 0,254        | 211,1  | 199,8 | 98,4  | 123,8 | –     | 122,2 | 71,6 | 3   |
| 1100T  | 6 280                | 2440              | 110             | 42              | 42,0                      | 0,426        | 251,0  | 246,2 | 120,6 | 142,1 | –     | 155,4 | –    | 5   |
| 1110T  | 9 320                | 2250              | 120             | 42              | 54,3                      | 0,508        | 269,7  | 259,0 | 127,0 | 160,3 | –     | 161,5 | –    | 5   |
| 1120T  | 13 700               | 2025              | 140             | 61              | 81,2                      | 0,735        | 307,8  | 304,4 | 149,2 | 179,4 | –     | 191,5 | –    | 6   |
| 1130T  | 19 900               | 1800              | 170             | 67              | 121                       | 0,907        | 345,9  | 329,8 | 161,9 | 217,5 | –     | 195,1 | –    | 6   |
| 1140T  | 28 600               | 1650              | 200             | 67              | 178                       | 1,13         | 384,0  | 374,4 | 184,2 | 254,0 | –     | 201,2 | –    | 6   |
| 1150T  | 39 800               | 1500              | 215             | 108             | 234                       | 1,95         | 453,1  | 371,8 | 182,9 | 269,2 | 391,2 | 271,5 | –    | 6   |
| 1160T  | 55 900               | 1350              | 240             | 121             | 317                       | 2,81         | 501,9  | 402,2 | 198,1 | 304,8 | 436,9 | 278,4 | –    | 6   |
| 1170T  | 74 600               | 1225              | 280             | 134             | 448                       | 3,49         | 566,9  | 437,8 | 215,9 | 355,6 | 487,2 | 307,3 | –    | 6   |
| 1180T  | 103 000              | 1100              | 300             | 153             | 619                       | 3,76         | 629,9  | 483,6 | 238,8 | 393,7 | 554,7 | 321,1 | –    | 6   |
| 1190T  | 137 000              | 1050              | 335             | 153             | 776                       | 4,4          | 675,6  | 524,2 | 259,1 | 436,9 | 607,8 | 325,1 | –    | 6   |
| 1200T  | 186 000              | 900               | 360             | 178             | 1058                      | 5,62         | 756,9  | 564,8 | 279,4 | 497,8 | 660,4 | 355,6 | –    | 6   |
| 1210T  | 249 000              | 820               | 390             | 178             | 1424                      | 10,5         | 844,6  | 622,6 | 304,8 | 533,4 | 750,8 | 431,8 | –    | 13  |
| 1220T  | 336 000              | 730               | 420             | 203             | 1785                      | 16,1         | 920,8  | 663,2 | 325,1 | 571,5 | 822,2 | 490,2 | –    | 13  |
| 1230T  | 435 000              | 680               | 450             | 203             | 2267                      | 24,0         | 1003,3 | 703,8 | 345,4 | 609,6 | 904,7 | 546,1 | –    | 13  |
| 1240T  | 559 000              | 630               | 480             | 254             | 2950                      | 33,8         | 1087,1 | 749,6 | 368,3 | 647,7 | –     | 647,7 | –    | 13  |
| 1250T  | 746 000              | 580               | ⑥               | 254             | 3833                      | 50,1         | 1181,1 | 815,6 | 401,3 | 711,2 | –     | 698,5 | –    | 13  |
| 1260T  | 932 000              | 540               | ⑥               | 254             | 4682                      | 67,2         | 1260,9 | 876,6 | 431,8 | 762,0 | –     | 762,0 | –    | 13  |

- ① Refer to page 10 for General Information.
- ② Peak torque capacity is two times the published rating. Torque ratings for hubs with Taper-Lock® bushings differ from those shown, refer to Table 18, page 36.
- ③ Consult Factory for higher speeds.
- ④ Maximum bores are reduced for hubs furnished with an interference fit and a setscrew over the keyway. Refer to Regal Rexnord™ Engineering Sheet 427-105 for details.
- ⑤ Minimum bore is the smallest bore to which a Rough Stock Bore (RSB) hub can be bored. Depending upon coupling size, RSB hubs may have only a blind centering hole or a through hole that will permit remachining of the hubs to the minimum bores specified.
- ⑥ Refer to Regal Rexnord.

## Close-Coupled Type T20



### Dimensions (mm)

| Size <sup>①</sup> | Torque Rating (Nm) <sup>③</sup> | Allow Speed RPM <sup>④</sup> | Max Bore (mm) <sup>⑤</sup> | Min Bore (mm) <sup>⑥</sup> | Cplg Wt w/o Bore (kg) | Lube Wt (kg) | A     | B     | C     | D     | F     | H                 | J     | M     | S    | GAP |
|-------------------|---------------------------------|------------------------------|----------------------------|----------------------------|-----------------------|--------------|-------|-------|-------|-------|-------|-------------------|-------|-------|------|-----|
| 1020T             | 52                              | 6000                         | 28                         | 13                         | 1,94                  | 0,0272       | 112,3 | 98,2  | 47,6  | 39,7  | 64,3  | 9,7               | 23,9  | 47,8  | 39,1 | 3   |
| 1030T             | 149                             | 6000                         | 35                         | 13                         | 2,58                  | 0,0408       | 121,8 | 98,2  | 47,6  | 49,2  | 73,8  | 9,7               | 24,9  | 47,8  | 39,1 | 3   |
| 1040T             | 249                             | 6000                         | 43                         | 13                         | 3,35                  | 0,0544       | 129,8 | 104,6 | 50,8  | 57,2  | 81,8  | 9,7               | 25,9  | 50,8  | 40,1 | 3   |
| 1050T             | 435                             | 6000                         | 50                         | 13                         | 5,32                  | 0,068        | 148,8 | 123,6 | 60,3  | 66,7  | 97,6  | 11,9              | 30,5  | 60,5  | 44,7 | 3   |
| 1060T             | 684                             | 6000                         | 56                         | 20                         | 7,01                  | 0,0862       | 163,1 | 130,0 | 63,5  | 76,2  | 111,1 | 12,7              | 31,8  | 63,5  | 52,3 | 3   |
| 1070T             | 994                             | 5500                         | 67                         | 20                         | 10,2                  | 0,113        | 174,2 | 155,4 | 76,2  | 87,3  | 122,3 | 12,7              | 33,0  | 66,5  | 53,8 | 3   |
| 1080T             | 2 050                           | 4750                         | 80                         | 27                         | 17,6                  | 0,172        | 201,2 | 180,8 | 88,9  | 104,8 | 149,2 | 12,7              | 43,7  | 88,9  | 64,5 | 3   |
| 1090T             | 3 730                           | 4000                         | 95                         | 27                         | 25,4                  | 0,254        | 232,9 | 199,8 | 98,4  | 123,8 | 168,3 | 12,7              | 47,0  | 95,2  | 71,6 | 3   |
| 1100T             | 6 280                           | 3600                         | 110                        | 42                         | 42,0                  | 0,426        | 267,9 | 246,2 | 120,6 | 142,1 | 198,0 | 15,7              | 59,7  | 120,7 | –    | 5   |
| 1110T             | 9 320                           | 3000                         | 120                        | 42                         | 54,4                  | 0,508        | 286,9 | 259,0 | 127,0 | 160,3 | 216,3 | 16,0              | 62,7  | 124,0 | –    | 5   |
| 1120T             | 13 700                          | 2700                         | 140                        | 61                         | 81,8                  | 0,735        | 320,2 | 304,4 | 149,2 | 179,4 | 245,5 | 17,5              | 73,7  | 142,7 | –    | 6   |
| 1130T             | 19 900                          | 2400                         | 170                        | 67                         | 122                   | 0,907        | 379,0 | 329,8 | 161,9 | 217,5 | 283,8 | 20,6              | 74,9  | 146,0 | –    | 6   |
| 1140T             | 28 600                          | 2200                         | 200                        | 67                         | 180                   | 1,13         | 417,1 | 374,4 | 184,2 | 254,0 | 321,9 | 20,6              | 78,2  | 155,4 | –    | 6   |
| 1150T             | 39 800                          | 2000                         | 215                        | 108                        | 230                   | 1,95         | 476,2 | 371,8 | 182,9 | 269,2 | 374,4 | 19,3 <sup>②</sup> | 107,3 | 203,2 | –    | 6   |
| 1160T             | 55 900                          | 1750                         | 240                        | 121                        | 321                   | 2,81         | 533,4 | 402,2 | 198,1 | 304,8 | 423,9 | 30,0 <sup>②</sup> | 115,3 | 215,9 | –    | 6   |
| 1170T             | 74 600                          | 1600                         | 280                        | 134                        | 448                   | 3,49         | 584,2 | 437,8 | 215,9 | 355,6 | 474,7 | 30,0 <sup>②</sup> | 120,1 | 226,1 | –    | 6   |

① Refer to **page 10** for General Information.

② Dimension "H" is to the end of the bolt on Sizes 1150 thru 1170. Bolts are not shrouded.

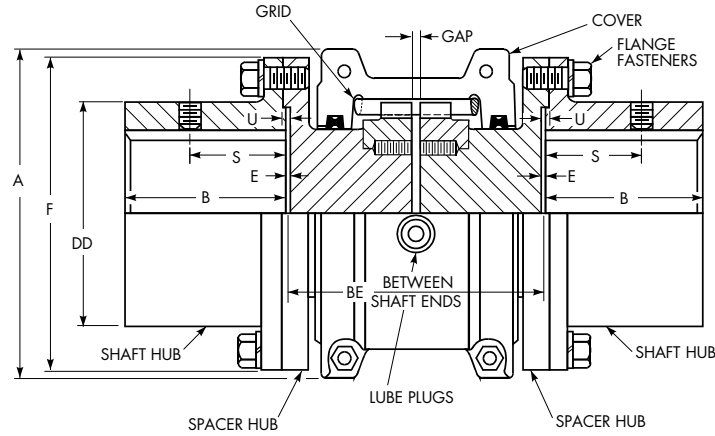
③ Peak torque capacity is two times the published rating. Torque ratings for hubs with Taper-Lock® bushings differ from those shown, refer to **Table 18, page 36**.

④ Consult Factory for higher speeds.

⑤ Maximum bores are reduced for hubs furnished with an interference fit and a setscrew over the keyway. Refer to Regal Rexnord™ Engineering Sheet 427-105 for details.

⑥ Minimum bore is the smallest bore to which a Rough Stock Bore (RSB) hub can be bored. Depending upon coupling size, RSB hubs may have only a blind centering hole or a through hole that will permit remachining of the hubs to the minimum bores specified.

# Full Spacer Type T31



## Dimensions (mm)

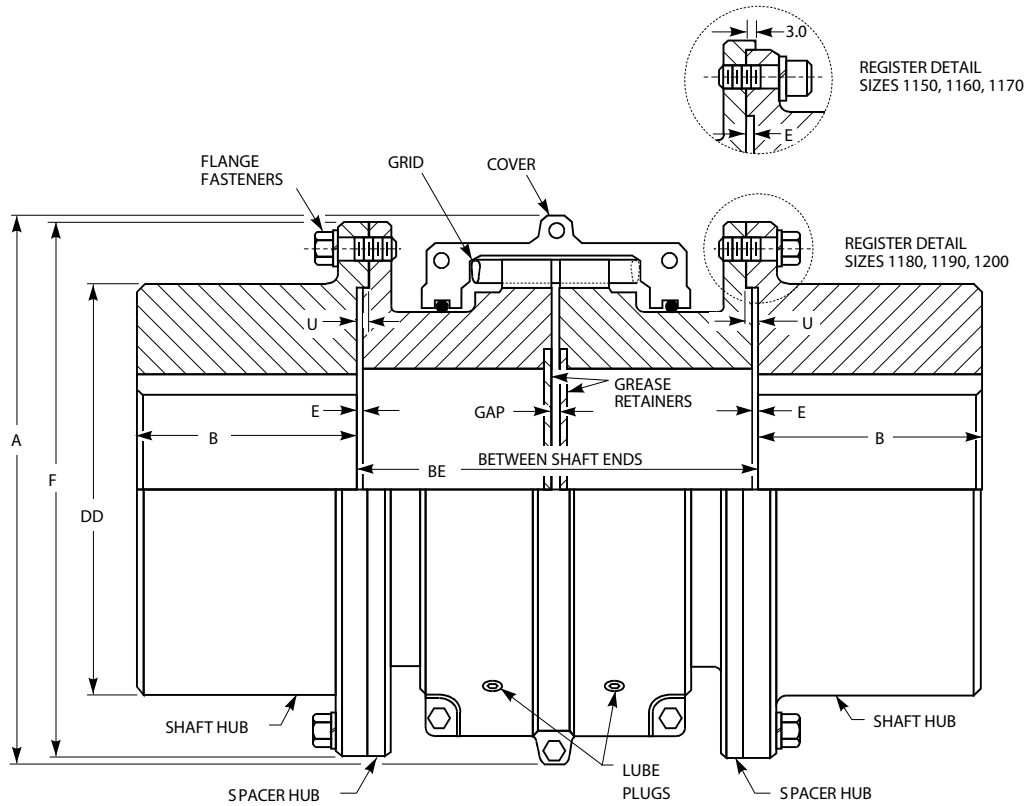
| Size ① | Torque Rating (Nm) ② | Allow Speed RPM ③ | Max Bore (mm) ④ | Min Bore (mm) ⑤ | Cplg Wt with No Bore & Min BE (kg) | Wt Added per mm of BE over Min | Lube Wt (kg) | A     | B     | BE    |     | DD    | E   | F     | S    | U   | GAP | Flange Fasteners           |          |
|--------|----------------------|-------------------|-----------------|-----------------|------------------------------------|--------------------------------|--------------|-------|-------|-------|-----|-------|-----|-------|------|-----|-----|----------------------------|----------|
|        |                      |                   |                 |                 |                                    |                                |              |       |       | Min   | Max |       |     |       |      |     |     | No. per Flange & SAE Grade | Dia (in) |
| 1020T  | 52                   | 4500              | 35              | 13              | 3,85                               | 0,01                           | 0,0272       | 97,0  | 34,9  | 88,9  | 203 | 52,4  | 0,8 | 85,7  | 27,4 | 1,8 | 5   | 4- GR 8                    | 0.250    |
| 1030T  | 149                  | 4500              | 43              | 13              | 5,21                               | 0,016                          | 0,0408       | 105,7 | 41,3  | 88,9  | 216 | 59,5  | 0,8 | 93,7  | 31,5 | 1,8 | 5   | 8- GR 8                    | 0.250    |
| 1040T  | 249                  | 4500              | 56              | 13              | 8,43                               | 0,021                          | 0,0544       | 114,3 | 54,0  | 88,9  | 216 | 78,6  | 0,8 | 112,7 | 27,4 | 1,8 | 5   | 8- GR 8                    | 0.250    |
| 1050T  | 435                  | 4500              | 67              | 13              | 12,8                               | 0,028                          | 0,068        | 135,1 | 60,3  | 111,1 | 216 | 87,3  | 0,8 | 125,4 | 40,6 | 1,8 | 5   | 8- GR 8                    | 0.312    |
| 1060T  | 684                  | 4350              | 80              | 20              | 20,5                               | 0,037                          | 0,0862       | 147,8 | 73,0  | 122,2 | 330 | 103,2 | 1,8 | 144,5 | 43,2 | 2,8 | 5   | 8- GR 8                    | 0.375    |
| 1070T  | 994                  | 4125              | 85              | 20              | 24,8                               | 0,048                          | 0,113        | 158,8 | 79,4  | 127,0 | 330 | 109,5 | 1,8 | 152,4 | 46,7 | 2,8 | 5   | 12- GR 8                   | 0.375    |
| 1080T  | 2 050                | 3600              | 95              | 27              | 40                                 | 0,069                          | 0,172        | 190,5 | 88,9  | 155,5 | 406 | 122,2 | 1,8 | 177,8 | 49,8 | 2,8 | 5   | 12- GR 5                   | 0.500    |
| 1090T  | 3 730                | 3600              | 110             | 27              | 60,1                               | 0,1                            | 0,254        | 211,1 | 101,6 | 163,5 | 406 | 142,9 | 1,8 | 209,6 | 56,9 | 2,8 | 5   | 12- GR 5                   | 0.625    |
| 1100T  | 6 280                | 2440              | 130             | 39              | 90,2                               | 0,12                           | 0,426        | 251,0 | 90,4  | 203,2 | 406 | 171,4 | 1,6 | 250,8 | -    | 3,2 | 6   | 12- GR 5                   | 0.750    |
| 1110T  | 9 320                | 2250              | 150             | 51              | 119                                | 0,16                           | 0,508        | 269,7 | 104,1 | 209,6 | 406 | 196,8 | 1,6 | 276,2 | -    | 3,2 | 6   | 12- GR 5                   | 0.750    |
| 1120T  | 13 700               | 2025              | 170             | 64              | 178                                | 0,2                            | 0,735        | 307,8 | 119,4 | 246,1 | 406 | 225,4 | 1,6 | 319,1 | -    | 4   | 10  | 12- GR 5                   | 0.875    |
| 1130T  | 19 900               | 1800              | 190             | 77              | 237                                | 0,29                           | 0,907        | 345,9 | 134,6 | 257,1 | 406 | 238,1 | 1,6 | 346,1 | -    | 4   | 10  | 12- GR 5                   | 1.000    |
| 1140T  | 28 600               | 1650              | 210             | 89              | 327                                | 0,4                            | 1,13         | 384,0 | 152,4 | 266,7 | 406 | 266,7 | 1,6 | 385,8 | -    | 4   | 10  | 12- GR 5                   | 1.125    |

- ① Refer to **page 10** for General Information.
- ② Peak torque capacity is two times the published rating. Torque ratings for hubs with bushings differ from those shown, refer to **Table 18, page 36**.
- ③ Consult Factory for higher speeds.
- ④ Maximum bores are reduced for hubs furnished with an interference fit and a setscrew over the keyway. Refer to Regal Rexnord™ Engineering Sheet 427-105 for details.
- ⑤ Minimum bore is the smallest bore to which a Rough Stock Bore (RSB) hub can be bored. Depending upon coupling size, RSB hubs may have only a blind centering hole or a through hole that will permit remachining of the hubs to the minimum bores specified.

**Table 6 — Type T31 Standard Stock Spacer Lengths (BE=Distance Between Shaft Ends)**

| Between Shaft Ends |      |          | Coupling Size |       |       |       |       |       |       |       |       |       |  |
|--------------------|------|----------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| (in)               | (mm) | Pump Std | 1020T         | 1030T | 1040T | 1050T | 1060T | 1070T | 1080T | 1090T | 1100T | 1110T |  |
| 3.50               | 89   | ANSI     | X             | X     | X     | -     | -     | -     | -     | -     | -     | -     |  |
| 3.94               | 100  | ISO      | X             | X     | X     | -     | -     | -     | -     | -     | -     | -     |  |
| 4.25               | 108  | MISC     | X             | X     | X     | -     | -     | -     | -     | -     | -     | -     |  |
| 4.38               | 111  | ANSI     | X             | X     | X     | X     | -     | -     | -     | -     | -     | -     |  |
| 4.69               | 119  | MISC     | X             | X     | X     | X     | -     | -     | -     | -     | -     | -     |  |
| 5.00               | 127  | ANSI     | X             | X     | X     | X     | X     | X     | -     | -     | -     | -     |  |
| 5.22               | 133  | MISC     | -             | -     | X     | -     | -     | -     | -     | -     | -     | -     |  |
| 5.38               | 137  | MISC     | -             | X     | X     | -     | -     | -     | -     | -     | -     | -     |  |
| 5.51               | 140  | ISO      | X             | X     | X     | X     | X     | X     | -     | -     | -     | -     |  |
| 5.66               | 144  | MISC     | -             | X     | X     | -     | -     | -     | -     | -     | -     | -     |  |
| 5.81               | 148  | MISC     | -             | X     | X     | X     | -     | -     | -     | -     | -     | -     |  |
| 5.97               | 152  | MISC     | -             | -     | X     | X     | -     | -     | -     | -     | -     | -     |  |
| 6.12               | 155  | MISC     | -             | X     | X     | X     | X     | X     | -     | -     | -     | -     |  |
| 6.94               | 176  | MISC     | X             | X     | X     | X     | X     | -     | -     | -     | -     | -     |  |
| 7.00               | 178  | ANSI     | -             | -     | -     | -     | -     | X     | X     | -     | -     | -     |  |
| 7.09               | 180  | ISO      | -             | -     | X     | X     | -     | X     | X     | X     | -     | -     |  |
| 7.25               | 184  | ANSI     | -             | X     | X     | X     | X     | X     | X     | X     | -     | -     |  |
| 8.00               | 203  | MISC     | -             | -     | -     | -     | -     | -     | -     | -     | X     | -     |  |
| 8.59               | 218  | MISC     | -             | -     | -     | -     | -     | -     | X     | -     | -     | -     |  |
| 8.62               | 219  | MISC     | -             | -     | -     | -     | X     | X     | -     | -     | -     | -     |  |
| 8.88               | 226  | MISC     | -             | -     | -     | -     | -     | -     | -     | -     | X     | -     |  |
| 9.75               | 248  | ANSI     | -             | -     | -     | -     | X     | X     | X     | X     | X     | X     |  |
| 9.84               | 250  | ISO      | -             | -     | -     | -     | -     | -     | -     | -     | X     | X     |  |
| 9.94               | 252  | MISC     | -             | -     | -     | -     | -     | -     | X     | -     | -     | -     |  |
| 11.09              | 282  | MISC     | -             | -     | -     | -     | -     | -     | X     | -     | -     | -     |  |
| 12.25              | 311  | ANSI     | -             | -     | -     | -     | X     | X     | X     | X     | -     | -     |  |
| 14.05              | 357  | MISC     | -             | -     | -     | -     | -     | -     | -     | -     | -     | X     |  |

# Full Spacer Type T31



## Dimensions (mm)

| Size<br>① | G52 Rigid Hub Size<br>③ | Torque Rating (Nm)<br>④ | Allow Speed RPM<br>⑤ | Max Bore (mm)<br>⑥ | Min Bore (mm)<br>⑦ | Cplg Wt with No Bore & Min BE (kg) | Wt Added per mm of BE over Min | Lube Wt (kg) | A     | B     | BE    |       | DD ②  | E   | F     | U   | GAP | Flange Fasteners           |          |
|-----------|-------------------------|-------------------------|----------------------|--------------------|--------------------|------------------------------------|--------------------------------|--------------|-------|-------|-------|-------|-------|-----|-------|-----|-----|----------------------------|----------|
|           |                         |                         |                      |                    |                    |                                    |                                |              |       |       | Min   | Max   |       |     |       |     |     | No. per Flange & SAE Grade | Dia (in) |
| 1150T     | 1055G                   | 39 800                  | 1500                 | 270                | 102                | 462                                | 0,19                           | 1,95         | 453,1 | 172,7 | 344,5 | 371,3 | 334,3 | 5,1 | 425,4 | –   | 10  | 14- GR 8                   | 0.875    |
| 1160T     | 1060G                   | 55 900                  | 1350                 | 290                | 115                | 566                                | 0,25                           | 2,81         | 501,9 | 186,4 | 355,6 | 406,4 | 366,0 | 6,6 | 457,2 | –   | 10  | 14- GR 8                   | 0.875    |
| 1170T     | 1070G                   | 74 600                  | 1225                 | 340                | 127                | 856                                | 0,38                           | 3,49         | 566,9 | 220,2 | 384,2 | 444,5 | 424,9 | 8,4 | 527,0 | –   | 10  | 16- GR 8                   | 1.000    |
| 1180T     | 1080G                   | 103 000                 | 1100                 | 340                | 102                | 1135                               | 0,47                           | 3,76         | 629,9 | 248,9 | 400,1 | 490,5 | 450,8 | 5,1 | 590,6 | 8,1 | 10  | 16- GR 5                   | 1.125    |
| 1190T     | 1090G                   | 137 000                 | 1050                 | 380                | 115                | 1525                               | 0,60                           | 4,40         | 675,6 | 275,8 | 411,2 | 530,4 | 508,0 | 5,1 | 660,4 | 8,1 | 10  | 18- GR 5                   | 1.250    |
| 1200T     | 1100G                   | 186 000                 | 900                  | 400                | 127                | 1910                               | 0,85                           | 5,62         | 756,9 | 305,3 | 444,5 | 574,5 | 530,4 | 6,1 | 711,2 | 9,1 | 10  | 18- GR 5                   | 1.250    |

① Refer to **page 10** for General Information.

② Dimension DD is for an as-cast, unmachined surface for Sizes 1180, 1190 and 1200T.

③ Type T31 couplings shown use Type G52 gear coupling rigid hubs as the shaft hubs.

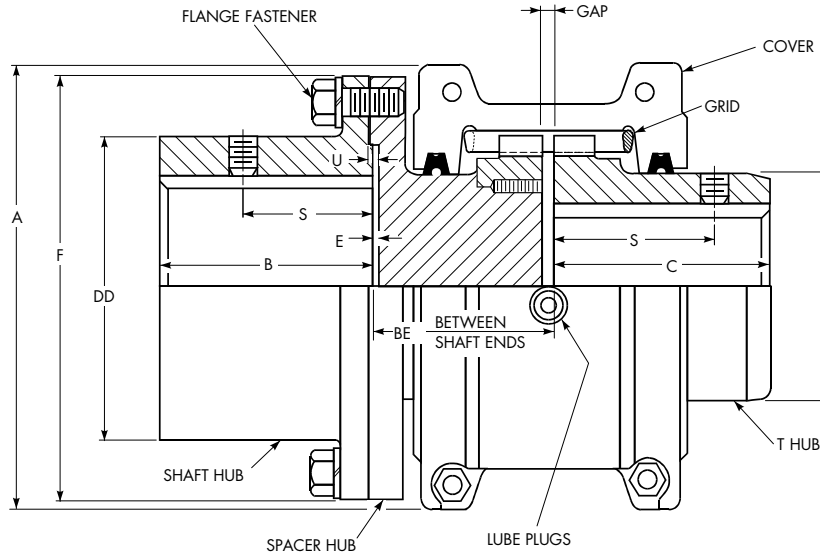
④ Peak torque capacity is two times the published rating. Torque ratings for hubs with bushings differ from those shown, refer to **Table 18, page 36**.

⑤ Consult Factory for higher speeds.

⑥ Maximum bores are reduced for hubs furnished with an interference fit and a setscrew over the keyway. Refer to Regal Rexnord™ Engineering Sheet 427-105 for details.

⑦ Minimum bore is the smallest bore to which a Rough Stock Bore (RSB) hub can be bored. Depending upon coupling size, RSB hubs may have only a blind centering hole or a through hole that will permit remachining of the hubs to the minimum bores specified.

# Half Spacer Type T35



## Dimensions (mm)

| Size<br>① | Torque Rating (Nm)<br>③ | Allow Speed RPM<br>④ | Max Bore (mm)<br>⑤ |       | Min Bore (mm)<br>⑥ | Cplg Wt with No Bore & Min BE (kg) | Wt Added per mm of BE over Min | Lube Wt (kg) | A     | B     | BE    |     | C     | D     | DD    | E   | F     | S         |       | U   | GAP | Flange Fasteners           |          |
|-----------|-------------------------|----------------------|--------------------|-------|--------------------|------------------------------------|--------------------------------|--------------|-------|-------|-------|-----|-------|-------|-------|-----|-------|-----------|-------|-----|-----|----------------------------|----------|
|           |                         |                      | Shaft Hub          | T Hub |                    |                                    |                                |              |       |       | Min   | Max |       |       |       |     |       | Shaft Hub | T Hub |     |     | No. per Flange & SAE Grade | Dia (in) |
| 1020T     | 52                      | 4500                 | 35                 | 28    | 13                 | 2,89                               | 0,01                           | 0,0272       | 97,0  | 34,9  | 45,2  | 102 | 47,6  | 39,7  | 52,4  | 0,8 | 85,7  | 27,4      | 39,1  | 1,8 | 3   | 4- GR 8                    | 0.250    |
| 1030T     | 149                     | 4500                 | 43                 | 35    | 13                 | 3,89                               | 0,016                          | 0,0408       | 105,7 | 41,3  | 45,2  | 109 | 47,6  | 49,2  | 59,5  | 0,8 | 93,7  | 31,5      | 39,1  | 1,8 | 3   | 8- GR 8                    | 0.250    |
| 1040T     | 249                     | 4500                 | 56                 | 43    | 13                 | 5,88                               | 0,021                          | 0,0544       | 114,3 | 54,0  | 45,2  | 109 | 50,8  | 57,2  | 78,6  | 0,8 | 112,7 | 27,4      | 40,1  | 1,8 | 3   | 8- GR 8                    | 0.250    |
| 1050T     | 435                     | 4500                 | 67                 | 50    | 13                 | 9,12                               | 0,028                          | 0,068        | 135,1 | 60,3  | 56,3  | 109 | 60,3  | 66,7  | 87,3  | 0,8 | 125,4 | 40,6      | 44,7  | 1,8 | 3   | 8- GR 8                    | 0.312    |
| 1060T     | 684                     | 4350                 | 80                 | 56    | 20                 | 13,9                               | 0,037                          | 0,0862       | 147,8 | 73,0  | 61,9  | 166 | 63,5  | 76,2  | 103,2 | 1,8 | 144,5 | 43,2      | 52,3  | 2,8 | 3   | 8- GR 8                    | 0.375    |
| 1070T     | 994                     | 4125                 | 85                 | 67    | 20                 | 17,6                               | 0,048                          | 0,113        | 158,8 | 79,4  | 64,3  | 166 | 76,2  | 87,3  | 109,5 | 1,8 | 152,4 | 46,7      | 53,8  | 2,8 | 3   | 12- GR 8                   | 0.375    |
| 1080T     | 2 050                   | 3600                 | 95                 | 80    | 27                 | 28,9                               | 0,069                          | 0,172        | 190,5 | 88,9  | 78,6  | 204 | 88,9  | 104,8 | 122,2 | 1,8 | 177,8 | 49,8      | 64,5  | 2,8 | 3   | 12- GR 5                   | 0.500    |
| 1090T     | 3 730                   | 3600                 | 110                | 95    | 27                 | 42,8                               | 0,10                           | 0,254        | 211,1 | 101,6 | 82,6  | 204 | 98,4  | 123,8 | 142,9 | 1,8 | 209,6 | 56,9      | 71,6  | 2,8 | 3   | 12- GR 5                   | 0.625    |
| 1100T     | 6 280                   | 2440                 | 130                | 110   | 39                 | 66,1                               | 0,12                           | 0,426        | 251,0 | 90,4  | 103,2 | 205 | 120,6 | 142,1 | 171,4 | 1,6 | 250,8 | -         | -     | 3,2 | 5   | 12- GR 5                   | 0.750    |
| 1110T     | 9 320                   | 2250                 | 150                | 120   | 51                 | 84,6                               | 0,16                           | 0,508        | 269,7 | 104,1 | 106,4 | 205 | 127,0 | 160,3 | 196,8 | 1,6 | 276,2 | -         | -     | 3,2 | 5   | 12- GR 5                   | 0.750    |
| 1120T     | 13 700                  | 2025                 | 170                | 140   | 64                 | 129                                | 0,20                           | 0,735        | 307,8 | 119,4 | 124,6 | 205 | 149,2 | 179,4 | 225,4 | 1,6 | 319,1 | -         | -     | 4   | 6   | 12- GR 5                   | 0.875    |
| 1130T     | 19 900                  | 1800                 | 190                | 170   | 77                 | 179                                | 0,29                           | 0,907        | 345,9 | 134,6 | 130,1 | 205 | 161,9 | 217,5 | 238,1 | 1,6 | 346,1 | -         | -     | 4   | 6   | 12- GR 5                   | 1.000    |
| 1140T     | 28 600                  | 1650                 | 210                | 200   | 89                 | 252                                | 0,40                           | 1,13         | 384,0 | 152,4 | 134,9 | 205 | 184,2 | 254,0 | 266,7 | 1,6 | 385,8 | -         | -     | 4   | 6   | 12- GR 5                   | 1.125    |

Table 7 — Type T35 Half Spacer Coupling Standard Stock Spacer Lengths

| Between Shaft Ends |      | Pump Std | Coupling Size ② |       |       |       |       |       |       |       |       |       |  |
|--------------------|------|----------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| (in)               | (mm) |          | 1020T           | 1030T | 1040T | 1050T | 1060T | 1070T | 1080T | 1090T | 1100T | 1110T |  |
| 1.78               | 45   | MISC     | X               | X     | X     | -     | -     | -     | -     | -     | -     | -     |  |
| 2.22               | 56   | MISC     | X               | X     | X     | X     | -     | -     | -     | -     | -     | -     |  |
| 2.53               | 64   | MISC     | X               | X     | X     | X     | X     | X     | -     | -     | -     | -     |  |
| 2.79               | 71   | MISC     | X               | X     | X     | X     | X     | X     | -     | -     | -     | -     |  |
| 3.50               | 89   | ANSI     | X               | X     | X     | X     | X     | -     | -     | -     | -     | -     |  |
| 3.53               | 90   | MISC     | -               | -     | -     | -     | -     | X     | X     | -     | -     | -     |  |
| 3.66               | 93   | MISC     | -               | X     | X     | X     | X     | X     | X     | X     | -     | -     |  |
| 3.58               | 91   | MISC     | -               | -     | -     | -     | -     | X     | X     | X     | -     | -     |  |
| 4.06               | 103  | MISC     | -               | -     | -     | -     | -     | -     | -     | -     | X     | -     |  |
| 4.94               | 125  | MISC     | -               | -     | -     | -     | -     | -     | -     | -     | X     | X     |  |
| 5.00               | 127  | ANSI     | -               | -     | -     | -     | -     | -     | X     | -     | X     | X     |  |
| 5.51               | 140  | ISO      | -               | -     | -     | -     | -     | -     | X     | X     | X     | -     |  |
| 6.16               | 156  | MISC     | -               | -     | -     | -     | X     | X     | X     | X     | -     | -     |  |
| 6.19               | 157  | MISC     | -               | -     | -     | -     | -     | -     | -     | -     | X     | -     |  |
| 7.09               | 180  | ISO      | -               | -     | -     | -     | -     | -     | -     | X     | -     | X     |  |

① Refer to page 10 for General Information.

② **CAUTION:** To permit removal of T35 shaft hub without moving connected equipment, select a half spacer with dimension BE (in Table 7) greater than dimension B (in uppermost table) or overhang the shaft hub. Refer to Falk® for maximum overhang allowed.

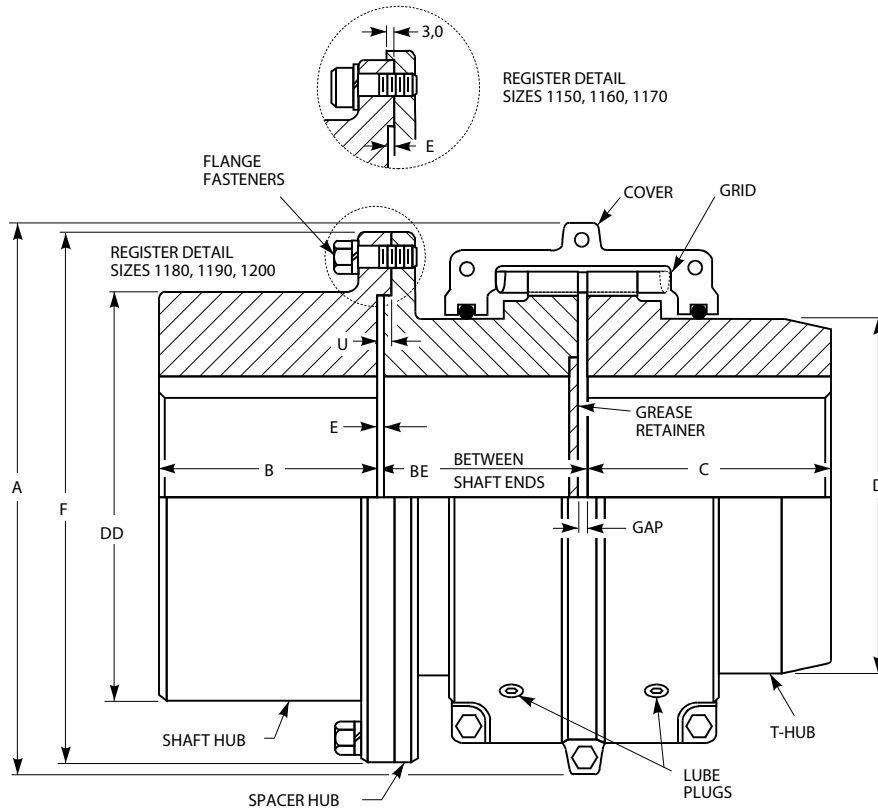
③ Peak torque capacity is two times the published rating. Torque ratings for hubs with bushings differ from those shown, refer to Table 18, page 36.

④ Consult Factory for higher speeds.

⑤ Maximum bores are reduced for hubs furnished with an interference fit and a setscrew over the keyway. Refer to Regal Rexnord™ Engineering Sheet 427-105 for details.

⑥ Minimum bore is the smallest bore to which a Rough Stock Bore (RSB) hub can be bored. Depending upon coupling size, RSB hubs may have only a blind centering hole or a through hole that will permit remachining of the hubs to the minimum bores specified.

# Half Spacer Type T35



## Dimensions (mm)

| Size<br>① | G52 Rigid Hub Size<br>③ | Torque Rating (Nm)<br>④ | Allow Speed RPM<br>⑤ | Hub Bores   |       |       |       | Cplg Wt with No Bore & Min BE (kg) | Wt Added per mm of BE over Min | Lube Wt (kg) | A     | B     | BE    |       | C     | D     | DD ②  | E   | F     | U   | GAP | Flange Fasteners           |          |
|-----------|-------------------------|-------------------------|----------------------|-------------|-------|-------|-------|------------------------------------|--------------------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-----|-------|-----|-----|----------------------------|----------|
|           |                         |                         |                      | Shaft Hub ③ |       | T Hub |       |                                    |                                |              |       |       | Min   | Max   |       |       |       |     |       |     |     | No. per Flange & SAE Grade | Dia (in) |
|           |                         |                         |                      | Max ⑥       | Min ⑦ | Max ⑥ | Min ⑦ |                                    |                                |              |       |       |       |       |       |       |       |     |       |     |     |                            |          |
| 1150T     | 1055G                   | 39 800                  | 1500                 | 270         | 102   | 215   | 108   | 348                                | 0,19                           | 1,95         | 453,1 | 172,7 | 174,5 | 187,5 | 182,9 | 269,2 | 334,3 | 5,1 | 425,4 | —   | 6   | 14- GR 8                   | 0.875    |
| 1160T     | 1060G                   | 55 900                  | 1350                 | 290         | 115   | 240   | 121   | 441                                | 0,25                           | 2,81         | 501,9 | 186,4 | 179,6 | 204,7 | 198,1 | 304,8 | 366,0 | 6,6 | 457,2 | —   | 6   | 14- GR 8                   | 0.875    |
| 1170T     | 1070G                   | 74 600                  | 1225                 | 340         | 127   | 280   | 134   | 652                                | 0,38                           | 3,49         | 566,9 | 220,2 | 194,0 | 223,8 | 215,9 | 355,6 | 424,9 | 8,4 | 527,0 | —   | 6   | 16- GR 8                   | 1.000    |
| 1180T     | 1080G                   | 103 000                 | 1100                 | 340         | 102   | 300   | 153   | 877                                | 0,47                           | 3,76         | 629,9 | 248,9 | 201,7 | 246,9 | 238,8 | 393,7 | 450,8 | 5,1 | 590,6 | 8,1 | 6   | 16- GR 5                   | 1.125    |
| 1190T     | 1090G                   | 137 000                 | 1050                 | 380         | 115   | 335   | 153   | 1150                               | 0,60                           | 4,40         | 675,6 | 275,8 | 207,3 | 266,7 | 259,1 | 436,9 | 508,0 | 5,1 | 660,4 | 8,1 | 6   | 18- GR 5                   | 1.250    |
| 1200T     | 1100G                   | 186 000                 | 900                  | 400         | 127   | 360   | 178   | 1484                               | 0,85                           | 5,62         | 756,9 | 305,3 | 223,8 | 289,1 | 279,4 | 497,8 | 530,4 | 6,1 | 711,2 | 9,1 | 6   | 18- GR 5                   | 1.250    |

① Refer to page 10 for General Information.

② Dimension DD is for an as-cast, unmachined surface for Sizes 1180, 1190 and 1200T.

③ Type T35 couplings shown use Type G52 gear coupling rigid hubs as the shaft hubs.

④ Peak torque capacity is two times the published rating. Torque ratings for hubs with bushings differ from those shown, refer to Table 18, page 36.

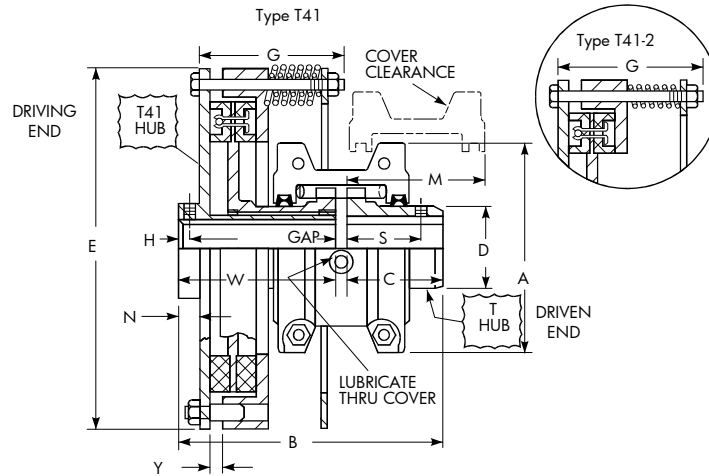
⑤ Consult Factory for higher speeds.

⑥ Maximum bores are reduced for hubs furnished with an interference fit and a setscrew over the keyway. Refer to Regal Rexnord™ Engineering Sheet 427-105 for details.

⑦ Minimum bore is the smallest bore to which a Rough Stock Bore (RSB) hub can be bored. Depending upon coupling size, RSB hubs may have only a blind centering hole or a through hole that will permit remachining of the hubs to the minimum bores specified.



# Controlled Torque Types T41, T41-2



## Dimensions (mm)

| Size<br>① | Cplg Wt<br>w/o Bore (kg)<br>② |       | Lube<br>Wt<br>(kg) | A     | B     | C     | D     | E      | G     | H   | M <sup>③</sup> | N    | S    | W     | Y <sup>④</sup> | GAP |
|-----------|-------------------------------|-------|--------------------|-------|-------|-------|-------|--------|-------|-----|----------------|------|------|-------|----------------|-----|
|           | T41                           | T41-2 |                    |       |       |       |       |        |       |     |                |      |      |       |                |     |
| 1020T     | 6,17                          | —     | 0,0272             | 97,0  | 130,0 | 47,6  | 39,7  | 177,8  | 63,5  | 5,6 | 47,8           | 10,7 | 39,1 | 79,2  | 5,1            | 3   |
| 1030T     | 8,16                          | 8,16  | 0,0408             | 105,7 | 130,0 | 47,6  | 49,2  | 201,7  | 69,6  | 5,6 | 50,8           | 10,7 | 39,1 | 79,2  | 5,1            | 3   |
| 1040T     | 11,5                          | 11,3  | 0,0544             | 114,3 | 133,1 | 50,8  | 57,2  | 231,6  | 82,3  | 5,6 | 63,5           | 12,2 | 40,1 | 79,2  | 5,1            | 3   |
| 1050T     | 16,4                          | 16,0  | 0,068              | 135,1 | 150,9 | 60,3  | 66,7  | 270,3  | 82,3  | 5,6 | 63,5           | 10,7 | 44,7 | 87,4  | 5,1            | 3   |
| 1060T     | 22,0                          | 21,3  | 0,0862             | 147,8 | 163,1 | 63,5  | 76,2  | 301,2  | 88,9  | 8,1 | 76,2           | 15,2 | 52,3 | 96,5  | 5,1            | 3   |
| 1070T     | 28,2                          | 27,3  | 0,113              | 158,8 | 182,9 | 76,2  | 87,3  | 323,6  | 101,6 | 8,1 | 82,8           | 14,7 | 53,8 | 103,6 | 5,1            | 3   |
| 1080T     | 41,0                          | 40,3  | 0,172              | 190,5 | 206,2 | 88,9  | 104,8 | 361,7  | 101,6 | 8,1 | 91,9           | 14,7 | 64,5 | 114,3 | 5,1            | 3   |
| 1090T     | 62,6                          | 60,3  | 0,254              | 211,1 | 230,1 | 98,4  | 123,8 | 413,5  | 127,0 | 8,1 | 109,2          | 16,3 | 71,6 | 128,5 | 5,1            | 3   |
| 1100T     | 101                           | 91,6  | 0,426              | 251,0 | 269,2 | 120,6 | 142,1 | 491,2  | 139,7 | —   | 147,3          | 20,8 | —    | 143,8 | 5,3            | 5   |
| 1110T     | 128                           | 121   | 0,508              | 269,7 | 288,3 | 127,0 | 160,3 | 543,1  | 152,4 | —   | 152,4          | 21,8 | —    | 156,5 | 9,1            | 5   |
| 1120T     | 183                           | 174   | 0,735              | 307,8 | 341,1 | 149,2 | 179,4 | 590,3  | 177,8 | —   | 177,8          | 26,9 | —    | 185,4 | 9,1            | 6   |
| 1130T     | 260                           | 249   | 0,907              | 345,9 | 360,9 | 161,9 | 217,5 | 683,8  | 190,5 | —   | 185,4          | 26,9 | —    | 192,5 | 9,1            | 6   |
| 1140T     | 376                           | 360   | 1,13               | 384,0 | 389,1 | 184,2 | 254,0 | 766,6  | 203,2 | —   | 213,4          | 27,2 | —    | 198,6 | 8,9            | 6   |
| 1150T     | 502                           | —     | 1,95               | 453,1 | 434,6 | 182,9 | 269,2 | 863,6  | 215,9 | —   | 254,0          | 31,8 | —    | 245,4 | 9,1            | 6   |
| 1160T     | 652                           | —     | 2,81               | 501,9 | 454,9 | 198,1 | 304,8 | 988,6  | 215,9 | —   | 254,0          | 32,3 | —    | 250,4 | 9,1            | 6   |
| 1170T     | 869                           | —     | 3,49               | 566,9 | 490,0 | 215,9 | 355,6 | 1065,8 | 241,3 | —   | 266,7          | 32,3 | —    | 267,7 | 9,1            | 6   |
| 1180T     | 1161                          | —     | 3,76               | 629,9 | 536,7 | 238,8 | 393,7 | 1160,8 | 241,3 | —   | 266,7          | 42,7 | —    | 291,6 | 9,1            | 6   |
| 1190T     | 1426                          | —     | 4,4                | 675,6 | 562,6 | 259,1 | 436,9 | 1263,9 | 254,0 | —   | 279,4          | 42,7 | —    | 297,2 | 9,1            | 6   |
| 1200T     | 1805                          | —     | 5,62               | 756,9 | 601,2 | 279,4 | 497,8 | 1377,2 | 254,0 | —   | 279,4          | 42,7 | —    | 315,5 | 9,1            | 6   |

① Refer to page 10 for General Information. Use a coupling guard that will permit air to circulate and cool the coupling.

② Weights are for couplings with Dimension C and W length hubs.

③ To remove cover without disturbing torque setting, allow M clearance.

④ With new friction segments.

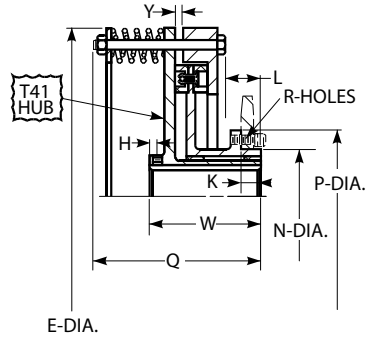
⑤ Refer to Table 14 and Table 16 for maximum bores with square or rectangular keys.

Table 8 — T41 Slip Torques, Bores & Speeds

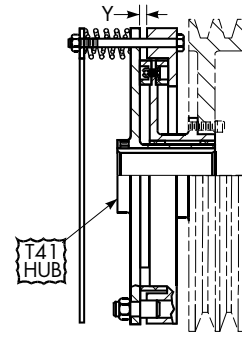
| Slip Torque (Nm) |        | Coupling Size | Maximum Bore with Recommended Keys (mm)<br>⑤ |       | Allow Speed RPM |
|------------------|--------|---------------|--|-------|-----------------|
| Min              | Max    |               | T41 Hub                                      | T Hub |                 |
| 4.75             | 38     | 1020T41       | 24   | 28    | 3600            |
| 5.65             | 16     | 1030T41-2     | 32   | 35    | 3600            |
| 12.4             | 99     | 1030T41       | —  | —     | —               |
| 6.78             | 26     | 1040T41-2     | 38   | 43    | 3600            |
| 20.9             | 167    | 1040T41       | —  | —     | —               |
| 9.04             | 42     | 1050T41-2     | 45   | 50    | 3600            |
| 33.9             | 271    | 1050T41       | —  | —     | —               |
| 11.3             | 73     | 1060T41-2     | 50   | 56    | 3600            |
| 58.8             | 470    | 1060T41       | —  | —     | —               |
| 13.6             | 108    | 1070T41-2     | 60   | 67    | 3600            |
| 87.0             | 698    | 1070T41       | —  | —     | —               |
| 44.1             | 192    | 1080T41-2     | 70   | 80    | 2800            |
| 153.0            | 1220   | 1080T41       | —  | —     | —               |
| 74.6             | 316    | 1090T41-2     | 85   | 95    | 2500            |
| 254.0            | 2034   | 1090T41       | —  | —     | —               |
| 136.0            | 576    | 1100T41-2     | 100  | 110   | 2100            |
| 463.0            | 3706   | 1100T41       | —  | —     | —               |
| 203              | 859    | 1110T41-2     | 110  | 120   | 1850            |
| 689              | 5514   | 1110T41       | —  | —     | —               |
| 294              | 1288   | 1120T41-2     | 120  | 140   | 1750            |
| 1028             | 8225   | 1120T41       | —  | —     | —               |
| 429              | 1830   | 1130T41-2     | 145  | 170   | 1450            |
| 1469             | 11750  | 1130T41       | —  | —     | —               |
| 610              | 2599   | 1140T41-2     | 180  | 200   | 1300            |
| 2079             | 16631  | 1140T41       | —  | —     | —               |
| 2938             | 23501  | 1150T41       | 190  | 215   | 1100            |
| 4067             | 32540  | 1160T41       | 225  | 240   | 950             |
| 5536             | 44290  | 1170T41       | 250  | 280   | 870             |
| 7570             | 60560  | 1180T41       | 290  | 300   | 760             |
| 10168            | 81349  | 1190T41       | 320  | 335   | 720             |
| 13558            | 108466 | 1200T41       | 340  | 360   | 670             |

# Controlled Torque Clutches Types T44 & T44-2

**Figure A** — Sprocket Mounted (not included) — See Sprocket Selections **Table 10**.



**Figure B** — Sheave Mounted (not included) — See Minimum Sheave Selections **Table 11**.



**Dimensions (mm)**

| Size<br>① | Cplg Wt <sup>②</sup><br>w/o Bore (kg) |       | E     | H   | K    | L    | N<br>+0,00<br>-0,025 | P     | Q     | R                |     |                       | W     | Y <sup>③</sup> | Max<br>Chain<br>Size |
|-----------|---------------------------------------|-------|-------|-----|------|------|----------------------|-------|-------|------------------|-----|-----------------------|-------|----------------|----------------------|
|           | T44                                   | T44-2 |       |     |      |      |                      |       |       | Size<br>(UNC-in) | No. | Bolt<br>Circle<br>Dia |       |                |                      |
| 1020T     | 5,26                                  | —     | 177,8 | 5,6 | 19,8 | 25,4 | 44,43                | 61,0  | 97,5  | 10-24            | 4   | 53,3                  | 79,2  | 5,1            | 40                   |
| 1030T     | 6,49                                  | 6,49  | 201,7 | 5,6 | 18,5 | 25,4 | 57,2                 | 76,2  | 104,1 | 10-24            | 6   | 66,0                  | 79,2  | 5,1            | 50                   |
| 1040T     | 8,57                                  | 8,35  | 231,6 | 5,6 | 13,5 | 22,4 | 66,7                 | 91,4  | 113,3 | .250-20          | 6   | 78,7                  | 79,2  | 5,1            | 60                   |
| 1050T     | 13,3                                  | 12,9  | 270,3 | 5,6 | 19,0 | 30,5 | 76,2                 | 106,7 | 121,4 | .312-18          | 6   | 91,4                  | 87,4  | 5,1            | 80                   |
| 1060T     | 16,0                                  | 15,3  | 301,2 | 8,1 | 20,1 | 34,5 | 88,9                 | 124,5 | 131,6 | .375-16          | 6   | 106,7                 | 96,5  | 5,1            | 100                  |
| 1070T     | 20,5                                  | 19,6  | 323,6 | 8,1 | 24,6 | 39,1 | 101,6                | 137,2 | 150,4 | .375-16          | 8   | 119,4                 | 103,6 | 5,1            | 100                  |
| 1080T     | 28,6                                  | 27,4  | 361,7 | 8,1 | 30,7 | 49,8 | 120,6                | 160,0 | 161,0 | .438-14          | 8   | 139,7                 | 114,3 | 5,1            | 140                  |
| 1090T     | 44,2                                  | 42,0  | 443,5 | 8,1 | 34,3 | 56,4 | 139,7                | 185,4 | 194,6 | .500-13          | 8   | 162,6                 | 128,5 | 5,1            | 160                  |
| 1100T     | 75,7                                  | 71,2  | 491,2 | —   | 32,3 | 58,9 | 158,8                | 215,9 | 213,4 | .625-11          | 8   | 185,4                 | 143,8 | 5,3            | 180                  |
| 1110T     | 105                                   | 98,4  | 543,1 | —   | 37,6 | 64,0 | 171,4                | 238,8 | 231,1 | .750-10          | 8   | 203,2                 | 156,5 | 9,1            | 180                  |
| 1120T     | 131                                   | 122   | 590,3 | —   | 54,9 | 89,9 | 193,7                | 261,6 | 278,9 | .750-10          | 10  | 226,1                 | 185,4 | 9,1            | 200                  |
| 1130T     | 205                                   | 194   | 683,8 | —   | 54,9 | 85,9 | 235,0                | 302,3 | 292,6 | .750-10          | 12  | 266,7                 | 192,5 | 9,1            | 200                  |
| 1140T     | 289                                   | 273   | 766,6 | —   | 54,9 | 82,3 | 279,4                | 348,0 | 301,8 | .750-10          | 14  | 312,4                 | 198,6 | 8,9            | 200                  |

**Table 9** — T44 Slip Torques, Bores & Speeds

| Slip Torque (Nm) |       | Clutch<br>Size | Maximum Bore<br>with<br>Recommended<br>Keys (mm) <sup>④</sup> | Allow<br>Speed<br>RPM |
|------------------|-------|----------------|---|-----------------------|
| Min              | Max   |                |   |                       |
| 4,75             | 38    | 1020T44        | 24  | 3600                  |
| 5,65             | 15,8  | 1030T44-2      | 32  | 3600                  |
| 12,4             | 99,4  | 1030T44        |   |                       |
| 6,78             | 26    | 1040T44-2      | 35  | 3600                  |
| 20,9             | 167   | 1040T44        |   |                       |
| 9,04             | 44,8  | 1050T44-2      | 45  | 3600                  |
| 33,9             | 271   | 1050T44        |   |                       |
| 11,3             | 73,4  | 1060T44-2      | 50  | 3600                  |
| 58,8             | 470   | 1060T44        |   |                       |
| 13,6             | 108   | 1070T44-2      | 60  | 3600                  |
| 87,0             | 698   | 1070T44        |   |                       |
| 44,1             | 192   | 1080T44-2      | 70  | 2800                  |
| 153,0            | 1220  | 1080T44        |   |                       |
| 74,6             | 316   | 1090T44-2      | 85  | 2500                  |
| 254,0            | 2034  | 1090T44        |   |                       |
| 136,0            | 576   | 1100T44-2      | 100   | 2100                  |
| 463,0            | 3706  | 1100T44        |   |                       |
| 203              | 859   | 1110T44-2      | 110   | 1850                  |
| 689              | 5514  | 1110T44        |   |                       |
| 294              | 1288  | 1120T44-2      | 120   | 1750                  |
| 1028             | 8225  | 1120T44        |   |                       |
| 429              | 1830  | 1130T44-2      | 145   | 1450                  |
| 1469             | 11750 | 1130T44        |   |                       |
| 610              | 2599  | 1140T44-2      | 180   | 1300                  |
| 2079             | 16631 | 1140T44        |   |                       |

**Table 10** — Sprocket Selections<sup>⑤</sup> (Minimum Number of Teeth) — (See Figure A)

| Chain<br>Size | Clutch Size |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|
|               | 1020        | 1030 | 1040 | 1050 | 1060 | 1070 | 1080 | 1090 | 1100 | 1110 | 1120 | 1130 | 1140 |
| 35            | 24          | 29   | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    |
| 40            | 19          | 23   | 27   | 30   | —    | —    | —    | —    | —    | —    | —    | —    | —    |
| 50            | —           | 19   | 22   | 25   | 29   | 31   | —    | —    | —    | —    | —    | —    | —    |
| 60            | —           | —    | 19   | 22   | 24   | 26   | 30   | —    | —    | —    | —    | —    | —    |
| 80            | —           | —    | —    | 17   | 19   | 21   | 24   | 27   | 31   | —    | —    | —    | —    |
| 100           | —           | —    | —    | —    | 16   | 17   | 20   | 22   | 25   | 27   | 30   | —    | —    |
| 120           | —           | —    | —    | —    | —    | —    | 17   | 19   | 22   | 24   | 25   | 29   | —    |
| 140           | —           | —    | —    | —    | —    | —    | 15   | 17   | 19   | 21   | 22   | 25   | 28   |
| 160           | —           | —    | —    | —    | —    | —    | —    | 15   | 17   | 19   | 20   | 23   | 25   |
| 180           | —           | —    | —    | —    | —    | —    | —    | —    | 16   | 17   | 18   | 20   | 23   |
| 200           | —           | —    | —    | —    | —    | —    | —    | —    | —    | —    | 17   | 19   | 21   |

**Table 11** — Minimum Sheave Selections<sup>⑥</sup> (See Figure B)

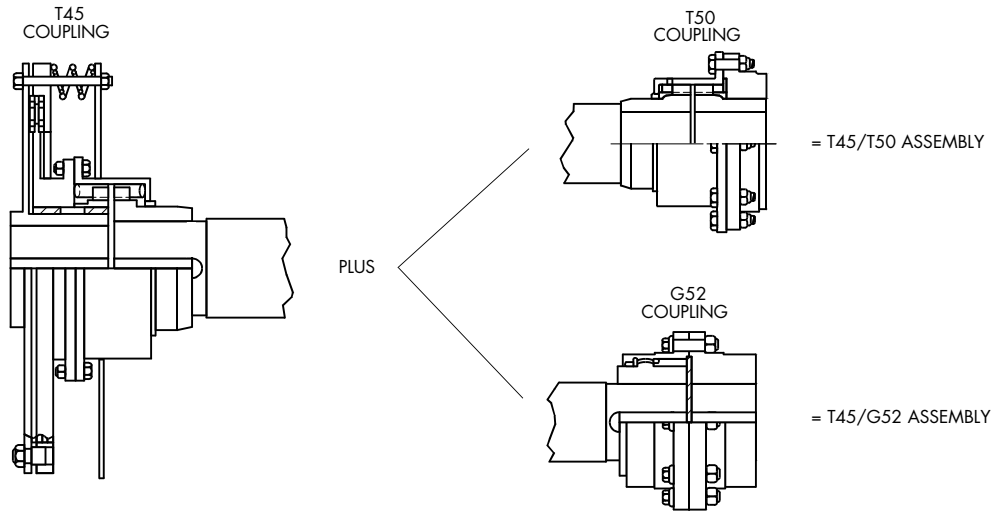
| Size  | Belt Type             |       |       |                     |       |       |       |       |
|-------|-----------------------|-------|-------|---------------------|-------|-------|-------|-------|
|       | Outside Diameter (mm) |       |       | Pitch Diameter (mm) |       |       |       |       |
|       | 3V                    | 5V    | 8V    | A                   | B     | C     | D     | E     |
| 1020T | 78,7                  | 180,3 | 317,5 | 79,5                | 137,2 | 228,6 | 330,2 | 533,4 |
| 1030T | 94,0                  | 180,3 | 317,5 | 94,7                | 137,2 | 228,6 | 330,2 | 533,4 |
| 1040T | 109,2                 | 180,3 | 317,5 | 110,0               | 137,2 | 228,6 | 330,2 | 533,4 |
| 1050T | 124,5                 | 180,3 | 317,5 | 125,2               | 137,2 | 228,6 | 330,2 | 533,4 |
| 1060T | 142,2                 | 180,3 | 317,5 | 143,0               | 145,0 | 228,6 | 330,2 | 533,4 |
| 1070T | 154,9                 | 180,3 | 317,5 | 155,7               | 157,7 | 228,6 | 330,2 | 533,4 |
| 1080T | 177,8                 | 190,5 | 317,5 | 178,6               | 180,6 | 228,6 | 330,2 | 533,4 |
| 1090T | 203,2                 | 215,9 | 317,5 | 204,0               | 206,0 | 228,6 | 330,2 | 533,4 |
| 1100T | 233,7                 | 246,4 | 317,5 | 234,4               | 236,5 | 228,6 | 330,2 | 533,4 |
| 1110T | 256,5                 | 269,2 | 317,5 | 257,3               | 259,3 | 268,2 | 330,2 | 533,4 |
| 1120T | 279,4                 | 292,1 | 317,5 | 280,2               | 282,2 | 291,1 | 330,2 | 533,4 |
| 1130T | 320,0                 | 332,7 | 353,1 | 320,8               | 322,8 | 331,7 | 340,4 | 533,4 |
| 1140T | 365,8                 | 378,5 | 398,8 | 366,5               | 368,6 | 377,4 | 386,1 | 533,4 |

- ① Refer to **page 10** for General Information.
- ② Weights are for couplings with Dimension W length hubs.
- ③ With new friction segments.
- ④ Refer to **Table 16** for maximum bores with square or rectangular keys.
- ⑤ Based on minimum clearance for sprocket chain over "P" diameter.
- ⑥ Based on mounting flange restrictions.

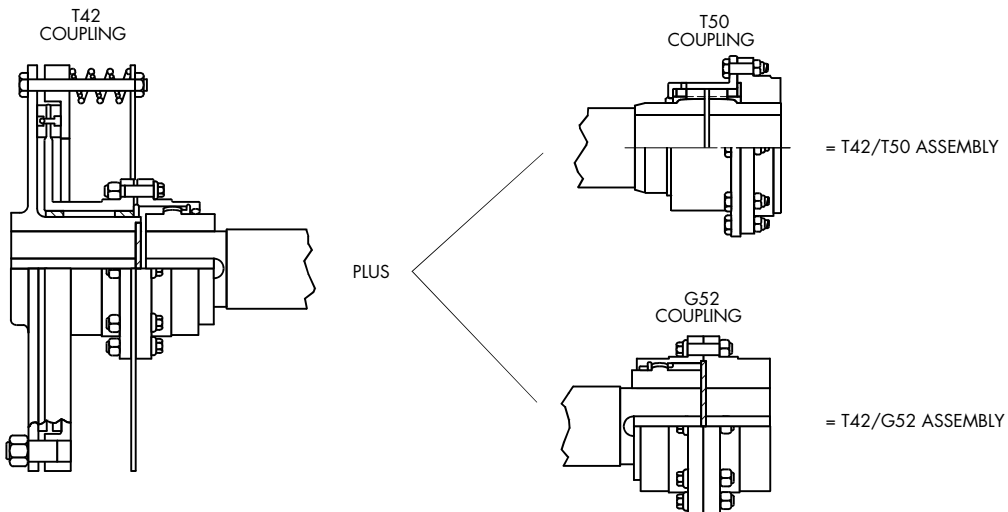
# Piloted Controlled Torque Type T45

## Piloted Controlled Torque Assemblies

A T45 coupling is a hybrid T41/T50 assembly. It provides the shock-dampening of a Steelflex® grid coupling in a piloted design for floating shafts with a controlled torque feature for overload protection.



A T42 coupling is also a hybrid. It is a T41 controlled torque assembly mated to a standard flex half gear coupling. This arrangement provides for high torques and a torsionally stiffer assembly with overload protection.



Either the T45 or T42 coupling can be used with a T50 or G52 coupling on the opposite end of the floating shaft to achieve different operational characteristics or preferences for grid or gear couplings.

**Contact the Regal Rexnord™ Coupling Inquiry Department or Coupling Engineering for selection assistance.**

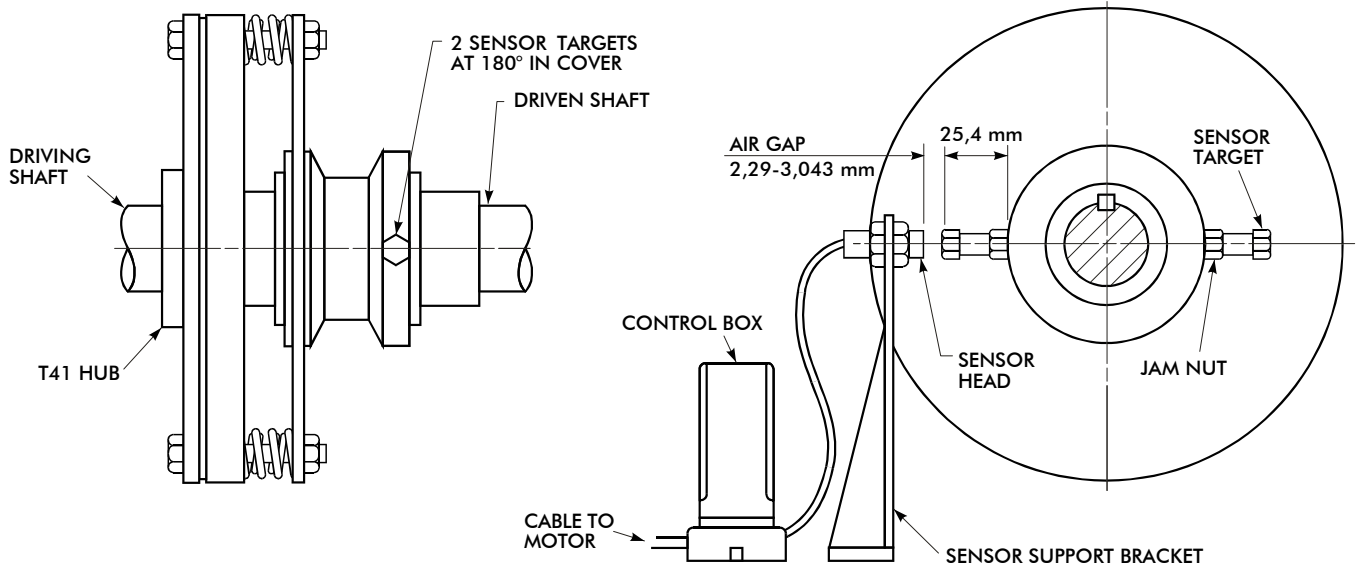
### T42 Flex Half Selection

| T42 Control Coupling Size | G52 Flex Half Coupling Size |
|---------------------------|-----------------------------|
| 1030T42                   | 1010G                       |
| 1040T42                   | 1010G                       |
| 1050T42                   | 1010G                       |
| 1060T42                   | 1015G                       |
| 1070T42                   | 1015G                       |
| 1080T42                   | 1020G                       |
| 1090T42                   | 1025G                       |
| 1100T42                   | 1030G                       |

### T42 Flex Half Selection

| T42 Control Coupling Size | G52 Flex Half Coupling Size |
|---------------------------|-----------------------------|
| 1110T42                   | 1030G                       |
| 1120T42                   | 1035G                       |
| 1130T42                   | 1040G                       |
| 1140T42                   | 1050G                       |
| 1150T42                   | 1050G                       |
| 1160T42                   | 1060G                       |
| 1170T42                   | 1070G                       |

## Optional Automatic Proximity Sensor Cutout Switch



An automatic proximity cutout switch in the motor starter control circuit of controlled torque coupling or clutch application is recommended for protection of connected equipment and coupling or clutch where damaging thermal buildup could develop. Refer to Slip Torque Performance Charts on **pages 21-24** to determine if an automatic proximity sensor cutout switch is required.

The proximity cutout switch speed control is adjustable at the control box. It is set at a required cutout speed and continually compares the actual speed of the driven shaft with the set cutout speed. The control box can be mounted in an approximate space of 76,2 mm wide by 76,2 mm deep by 127 mm high.

During overload, the coupling or clutch slips at a predetermined speed. When the driven shaft speed drops below the cutout switch speed setting, it opens the motor circuit and the drag load stops the motor shaft.

When the underspeed cutout switch is wired for automatic reset, the drive is immediately ready for service (after overload is removed) without resetting the circuit at any point. To restart the drive, just press either the main or remote control start button. The motor will not maintain normal operation if the overload has not been removed because the motor contractor circuit will reopen as soon as the start button is released.

The customer may incorporate a warning light or an alarm to the circuit to signal the operator of an overload or shutdown condition.

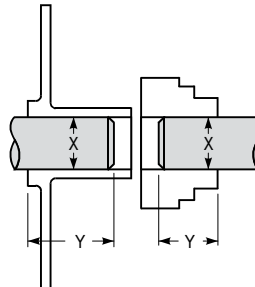
Refer to Service Manual 428-440 for complete details.

### Overhanging Hubs

When the distance between shaft ends is greater than the coupling gap or when the coupling or clutch hub length is greater than the usable shaft length, overhang one or both hubs. For Type T41, if this results in less than one shaft diameter of hub engagement, check key stresses or use a semi-standard long T hub listed in **Table 22, page 39** or submit application details to Regal Rexnord.

**CAUTION:** The effect of open keyways on coupling or clutch balance should always be considered.

**Dimension Y must be equal to or greater than dimension X for clearance fits, or greater than dimension X times 0,75 for interference fits.**



## Slip Torque Performance Charts

The following charts are for T41, T41-2, T44 and T44-2 couplings or clutches. The coupling or clutch slip torque setting and operating speed determine the length of time a coupling or clutch can slip without exceeding its thermal capacity. An automatic cutout switch (see **page 20**) is *required* on applications as indicated in the upper right of the charts (Footnote 1) and is recommended on applications where “minutes of slip and non-slip” are exceeded.

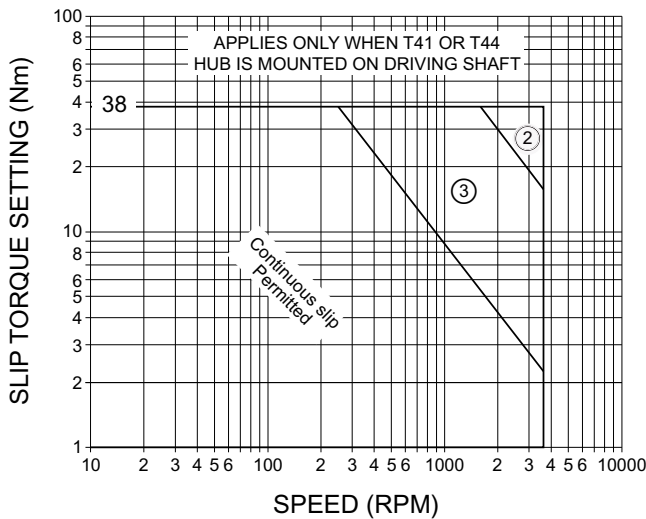
**CAUTION:** Thermal conditions in the slip torque performance charts apply only when the controlled torque hub is mounted on the driving shaft. When the controlled torque hub is mounted on the driven shaft, reduce the slip time by 50%.

During slip, heat is generated at the friction lining surfaces. The following charts specify the thermal capacities. When the torque (slip torque at the slip speed — not motor horsepower) being dissipated during a slip period exceeds the thermal capacity of the coupling or clutch, the following conditions will result:

1. Lining wear that changes the coefficient of friction and slip torque setting.
2. Excessive sleeve bearing wear.
3. Warping of controlled torque hub flange and drive plate flange.
4. Heavy smoke and possibly fire.
5. Complete coupling or clutch failure.

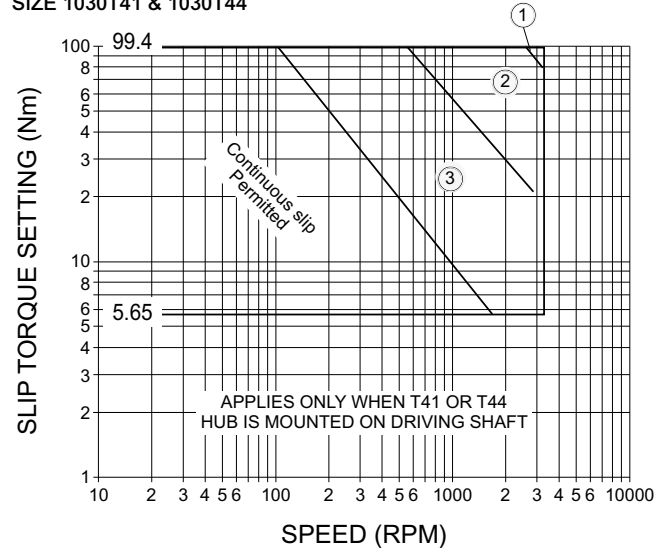
The limits specified in these charts must be adhered to for proper operation of controlled torque couplings or clutches in overload systems. Refer to Factory all applications requiring operation beyond the coupling or clutch thermal capacity.

SIZE 1020T41 & 1020T44



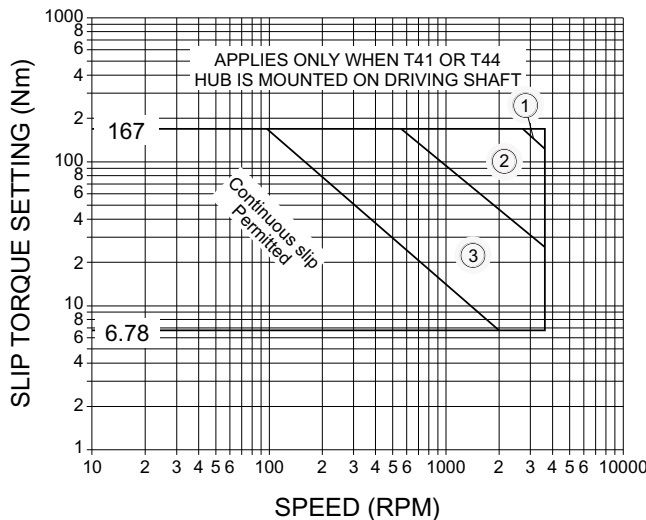
- ② - 17 seconds slip permitted if followed by 6 minutes non-slip
- ③ - 34 seconds slip permitted if followed by 6 minutes non-slip

SIZE 1030T41 & 1030T44



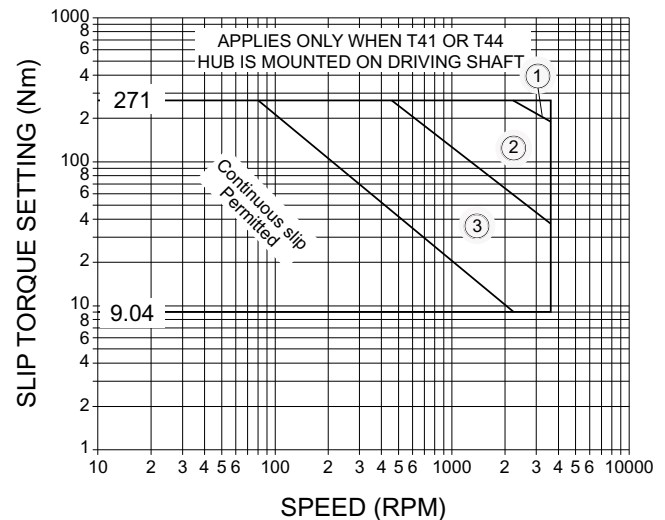
- ① - Automatic cutout switch required
- ② - 20 seconds slip permitted if followed by 7 minutes non-slip
- ③ - 40 seconds slip permitted if followed by 7 minutes non-slip

SIZE 1040T41 & 1040T44



- ① - Automatic cutout switch required
- ② - 23 seconds slip permitted if followed by 7.5 minutes non-slip
- ③ - 45 seconds slip permitted if followed by 7.5 minutes non-slip

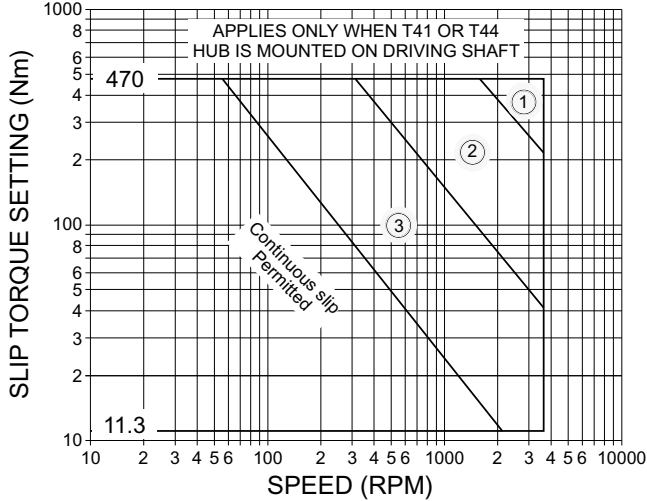
SIZE 1050T41 & 1050T44



- ① - Automatic cutout switch required
- ② - 27 seconds slip permitted if followed by 9 minutes non-slip
- ③ - 54 seconds slip permitted if followed by 9 minutes non-slip

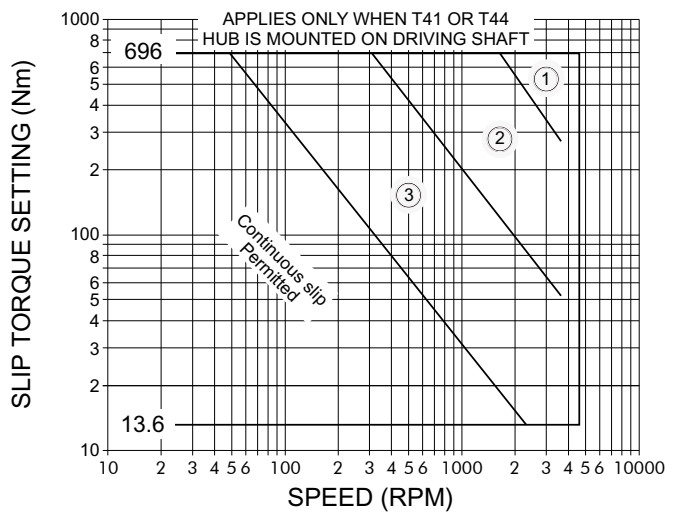
# Slip Torque Performance Charts

SIZE 1060T41 & 1060T44



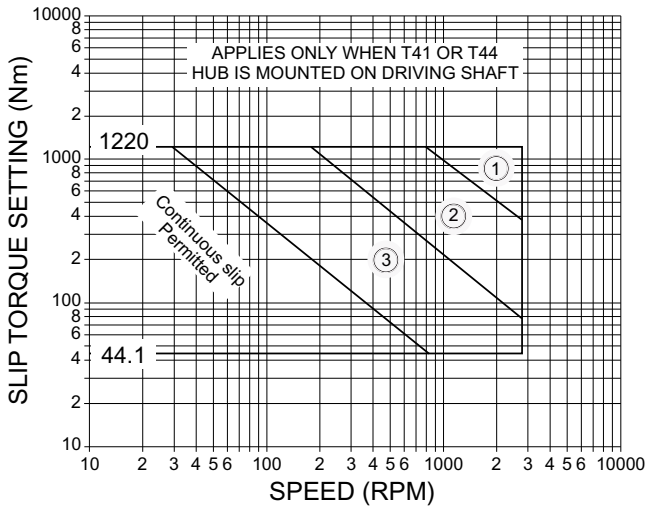
- ① - Automatic cutout switch required
- ② - 30 seconds slip permitted if followed by 10 minutes non-slip
- ③ - 60 seconds slip permitted if followed by 10 minutes non-slip

SIZE 1070T41 & 1070T44



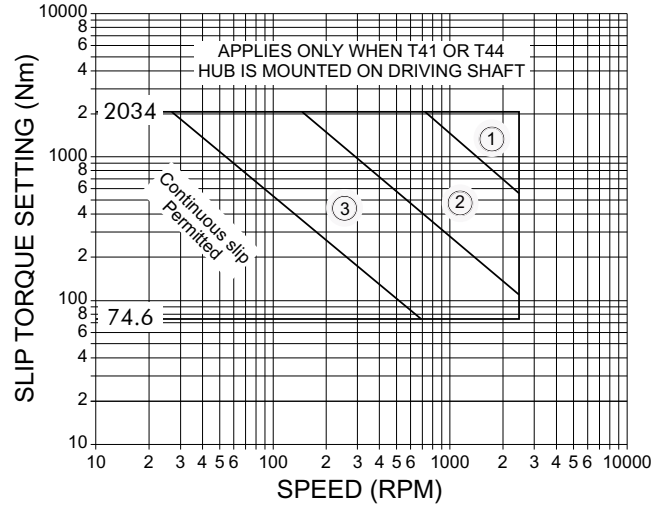
- ① - Automatic cutout switch required
- ② - 33 seconds slip permitted if followed by 11 minutes non-slip
- ③ - 66 seconds slip permitted if followed by 11 minutes non-slip

SIZE 1080T41 & 1080T44



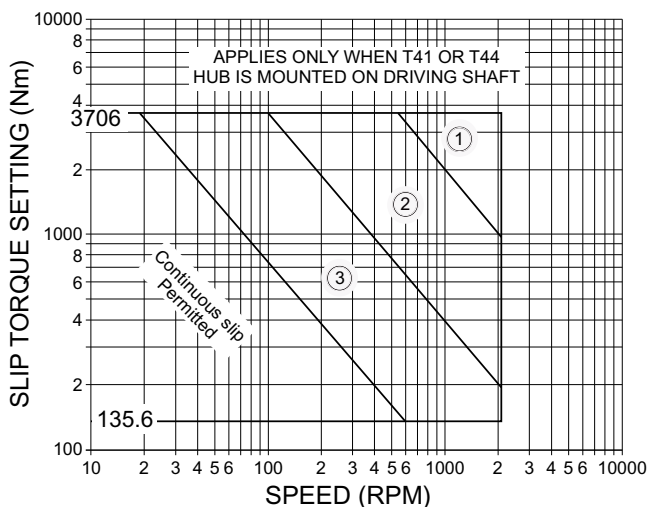
- ① - Automatic cutout switch required
- ② - 36 seconds slip permitted if followed by 12 minutes non-slip
- ③ - 72 seconds slip permitted if followed by 12 minutes non-slip

SIZE 1090T41 & 1090T44



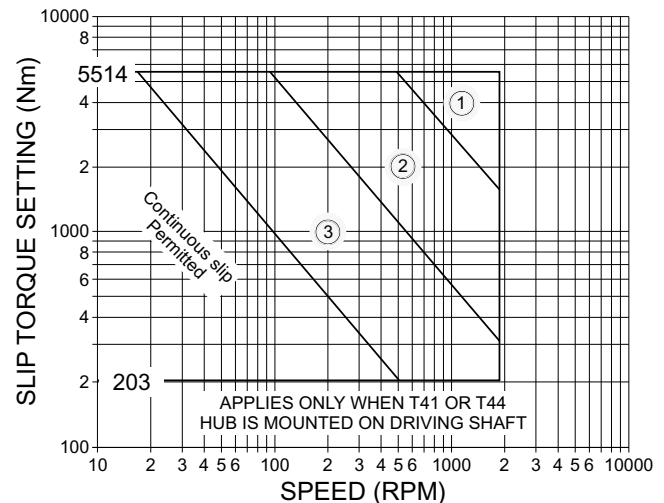
- ① - Automatic cutout switch required
- ② - 40 seconds slip permitted if followed by 14 minutes non-slip
- ③ - 80 seconds slip permitted if followed by 14 minutes non-slip

SIZE 1100T41 & 1100T44



- ① - Automatic cutout switch required
- ② - 48 seconds slip permitted if followed by 16 minutes non-slip
- ③ - 96 seconds slip permitted if followed by 16 minutes non-slip

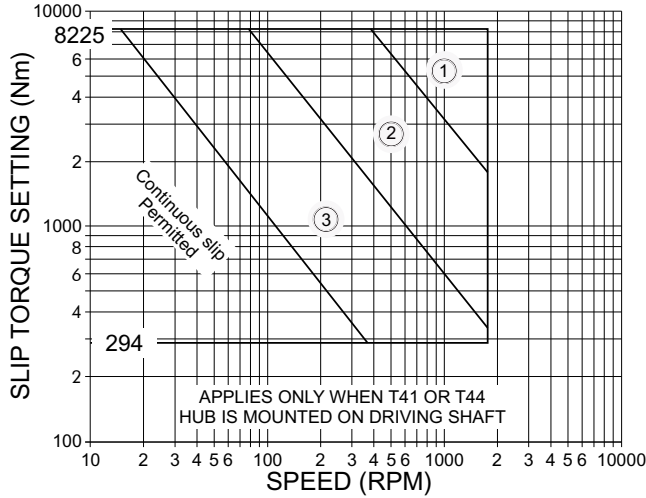
SIZE 1110T41 & 1110T44



- ① - Automatic cutout switch required
- ② - 55 seconds slip permitted if followed by 18 minutes non-slip
- ③ - 110 seconds slip permitted if followed by 18 minutes non-slip

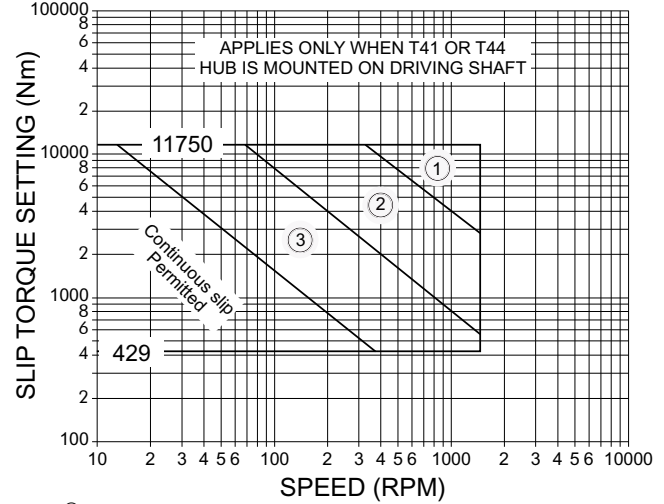
# Slip Torque Performance Charts

SIZE 1120T41 & 1120T44



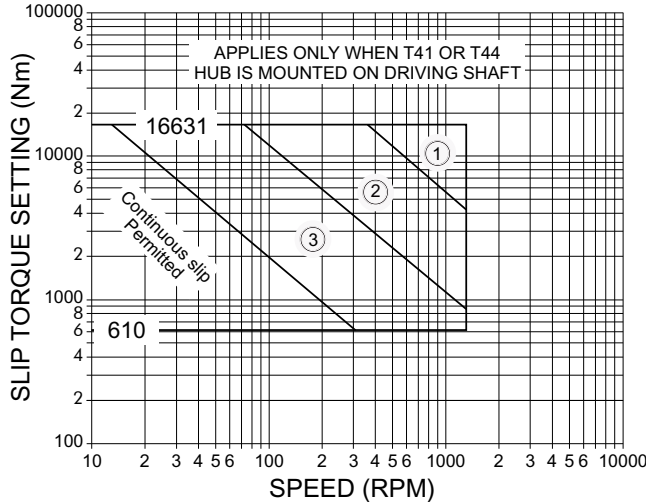
- ① - Automatic cutout switch required
- ② - 60 seconds slip permitted if followed by 20 minutes non-slip
- ③ - 120 seconds slip permitted if followed by 20 minutes non-slip

SIZE 1130T41 & 1130T44



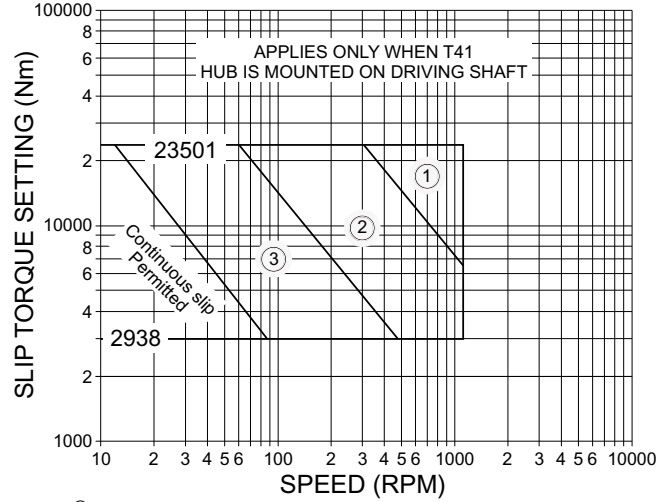
- ① - Automatic cutout switch required
- ② - 70 seconds slip permitted if followed by 23 minutes non-slip
- ③ - 140 seconds slip permitted if followed by 23 minutes non-slip

SIZE 1140T41 & 1140T44



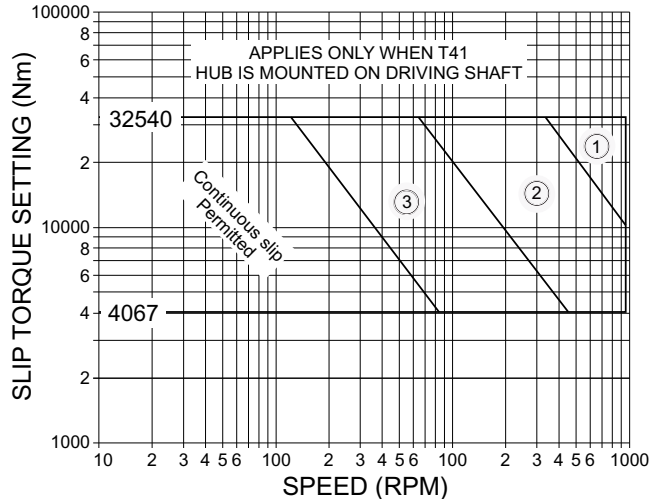
- ① - Automatic cutout switch required
- ② - 80 seconds slip permitted if followed by 26 minutes non-slip
- ③ - 160 seconds slip permitted if followed by 26 minutes non-slip

SIZE 1150T41



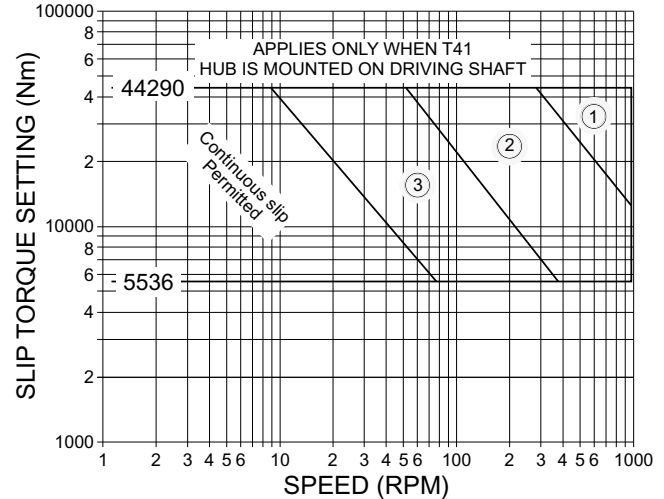
- ① - Automatic cutout switch required
- ② - 92 seconds slip permitted if followed by 31 minutes non-slip
- ③ - 184 seconds slip permitted if followed by 31 minutes non-slip

SIZE 1160T41



- ① - Automatic cutout switch required
- ② - 106 seconds slip permitted if followed by 35 minutes non-slip
- ③ - 212 seconds slip permitted if followed by 35 minutes non-slip

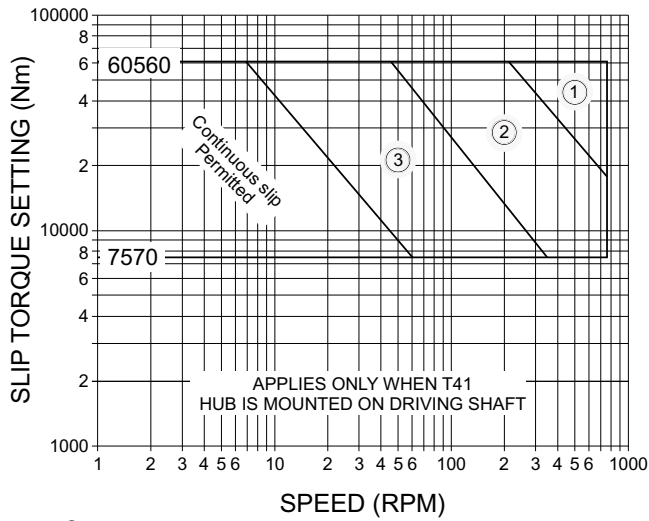
SIZE 1170T41



- ① - Automatic cutout switch required
- ② - 110 seconds slip permitted if followed by 37 minutes non-slip
- ③ - 220 seconds slip permitted if followed by 37 minutes non-slip

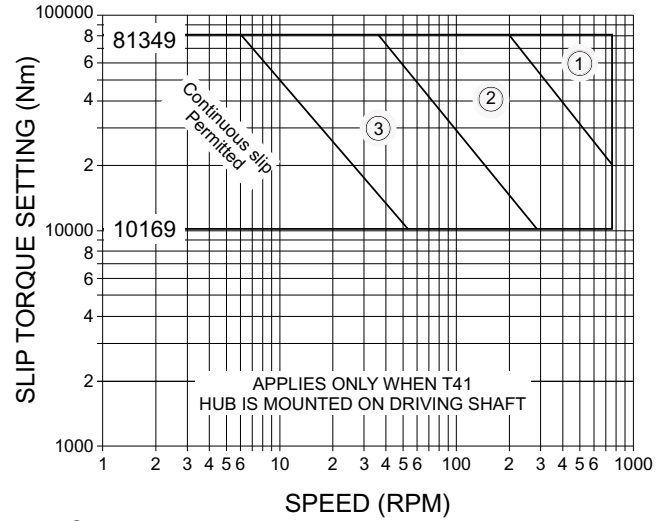
# Slip Torque Performance Charts

SIZE 1180T41



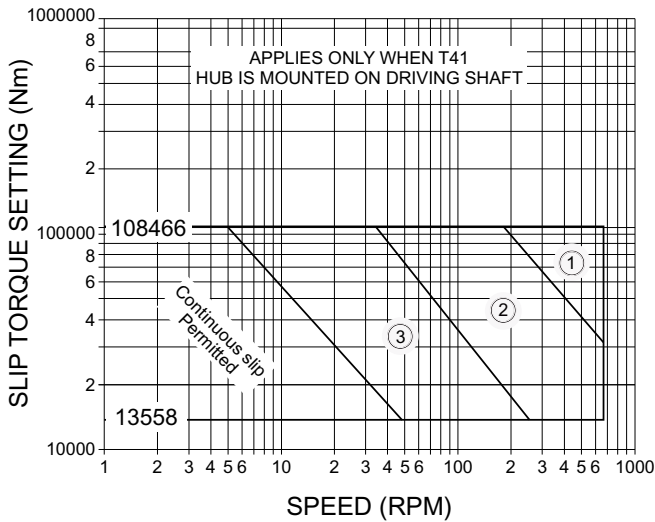
- ① - Automatic cutout switch required
- ② - 122 seconds slip permitted if followed by 40 minutes non-slip
- ③ - 224 seconds slip permitted if followed by 40 minutes non-slip

SIZE 1190T41



- ① - Automatic cutout switch required
- ② - 133 seconds slip permitted if followed by 44 minutes non-slip
- ③ - 266 seconds slip permitted if followed by 44 minutes non-slip

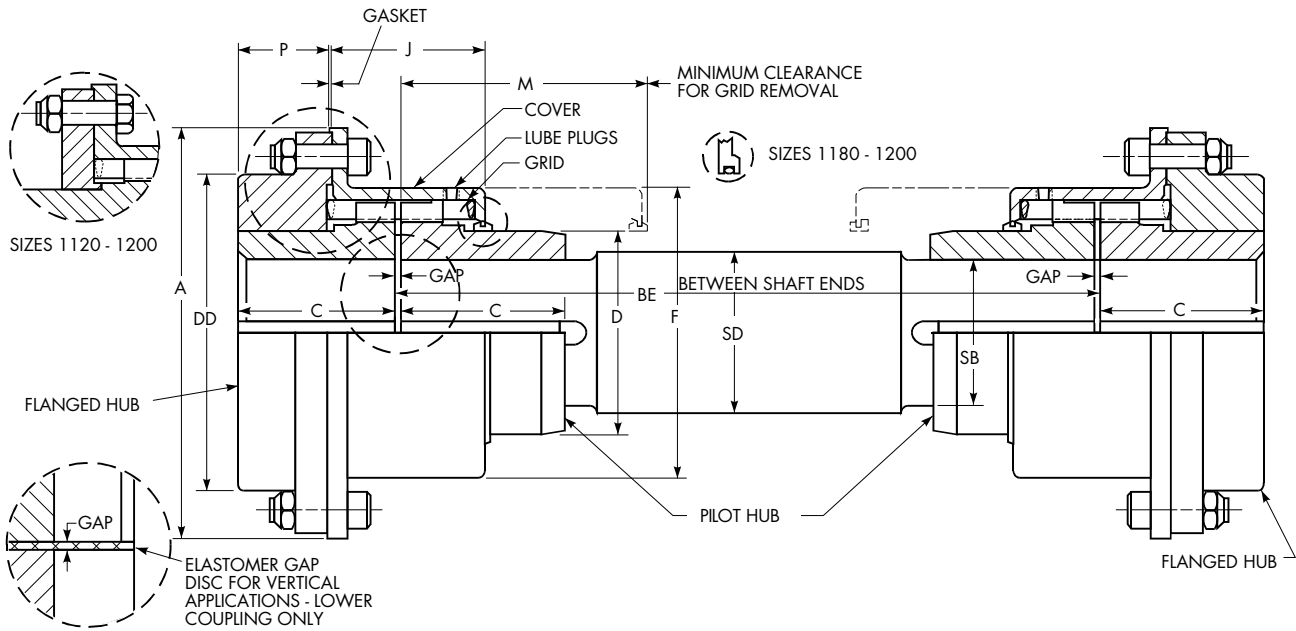
SIZE 1200T41



- ① - Automatic cutout switch required
- ② - 150 seconds slip permitted if followed by 50 minutes non-slip
- ③ - 300 seconds slip permitted if followed by 50 minutes non-slip



# Floating Shaft Type T50



## Dimensions (mm)

| Size<br>① | Torque<br>Rating<br>(Nm)<br>② | Max Bore<br>(Flanged<br>Hub)<br>(mm)<br>③ | Min<br>Bore<br>④ | Pilot<br>Hub<br>Max<br>Bore<br>(mm) | Wt Per<br>Cplg No<br>Bore<br>(kg) | Wt Added<br>per mm of<br>Length of<br>SD Dia<br>Between<br>Hubs | Lube Wt<br>per<br>Cplg<br>(kg) | A     | BE<br>Min | C     | D     | DD    | F     | J     | M     | P     | SB    | SD    | GAP |
|-----------|-------------------------------|---|------------------|-------------------------------------|-----------------------------------|---|--------------------------------|-------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
| 1030T     | 149                           | 35  | 13               | 27,0                                | 3,9                               | 0,00498   | 0,0408                         | 115,9 | 162       | 47,6  | 49,2  | 83,7  | 80,8  | 50,3  | 77,7  | 26,8  | 27,0  | 28,6  | 3   |
| 1050T     | 435                           | 50  | 13               | 36,5                                | 8,84                              | 0,00893   | 0,068                          | 157,5 | 195       | 60,3  | 66,7  | 105,2 | 104,8 | 59,2  | 94,0  | 36,2  | 36,5  | 38,1  | 3   |
| 1070T     | 994                           | 67  | 20               | 49,2                                | 15,6                              | 0,016   | 0,113                          | 182,9 | 213       | 76,2  | 87,3  | 126,5 | 129,0 | 65,9  | 103,1 | 49,8  | 49,2  | 50,8  | 3   |
| 1080T     | 2 050                         | 80  | 27               | 61,9                                | 26,4                              | 0,025   | 0,172                          | 218,4 | 275       | 88,9  | 104,8 | 154,9 | 156,2 | 85,9  | 134,1 | 52,13 | 61,9  | 63,5  | 3   |
| 1090T     | 3 730                         | 95  | 27               | 74,6                                | 37,2                              | 0,036   | 0,254                          | 244,9 | 294       | 98,4  | 123,8 | 180,3 | 175,8 | 92,2  | 143,8 | 58,5  | 74,6  | 76,2  | 3   |
| 1100T     | 6 280                         | 110                                       | 42               | 92,1                                | 62,8                              | 0,056   | 0,426                          | 286,0 | 372       | 120,6 | 142,1 | 211,3 | 208,3 | 117,3 | 181,4 | 69,3  | 92,1  | 95,2  | 5   |
| 1110T     | 9 320                         | 120                                       | 42               | 101,6                               | 83,6                              | 0,067   | 0,508                          | 324,1 | 391       | 127,0 | 160,3 | 245,4 | 228,6 | 122,2 | 190,5 | 73,9  | 101,6 | 104,8 | 5   |
| 1120T     | 13 700                        | 140                                       | 61               | 117,5                               | 97,9                              | 0,09  | 0,735                          | 327,2 | 453       | 149,2 | 179,4 | 179,3 | 257,0 | 146,3 | 220,0 | 83,6  | 117,5 | 120,6 | 6   |
| 1130T     | 19 900                        | 170                                       | 67               | 133,4                               | 140                               | 0,115   | 0,907                          | 365,3 | 463       | 161,9 | 217,5 | 217,4 | 295,1 | 149,5 | 225,0 | 94,8  | 133,4 | 136,5 | 6   |
| 1140T     | 28 600                        | 200                                       | 67               | 142,9                               | 210                               | 0,131   | 1,13                           | 419,1 | 482       | 184,2 | 254,0 | 254,0 | 335,8 | 155,8 | 234,7 | 113,8 | 142,9 | 146,0 | 6   |
| 1150T     | 39 800                        | 215                                       | 108              | 161,9                               | 277                               | 0,168   | 1,95                           | 477,5 | 549       | 182,9 | 269,2 | 269,2 | 391,2 | 177,4 | 268,2 | 101,7 | 161,9 | 165,1 | 6   |
| 1160T     | 55 900                        | 240                                       | 121              | 200,0                               | 381                               | 0,254   | 2,81                           | 548,6 | 587       | 198,1 | 304,8 | 304,8 | 442,0 | 189,4 | 287,0 | 111,9 | 200,0 | 203,2 | 6   |
| 1170T     | 74 600                        | 280                                       | 134              | 200,0                               | 519                               | 0,254   | 3,49                           | 604,5 | 622       | 215,9 | 355,6 | 355,6 | 494,3 | 201,0 | 304,8 | 124,6 | 200,0 | 203,2 | 6   |
| 1180T     | 103 000                       | 300                                       | 153              | 225,4                               | 718                               | 0,322   | 3,76                           | 665,5 | 673       | 238,8 | 393,7 | 393,7 | 556,3 | 226,9 | 330,2 | 141,4 | 225,4 | 228,6 | 6   |
| 1190T     | 137 000                       | 335                                       | 153              | 250,8                               | 898                               | 0,397   | 4,4                            | 708,7 | 711       | 259,1 | 436,9 | 436,9 | 599,4 | 241,7 | 349,5 | 157,6 | 250,8 | 254,0 | 6   |
| 1200T     | 186 000                       | 360                                       | 178              | 276,2                               | 1205                              | 0,48  | 5,62                           | 782,3 | 744       | 279,4 | 497,8 | 497,8 | 622,9 | 251,8 | 365,8 | 172,8 | 276,2 | 279,4 | 6   |

① Refer to **page 10** for General Information.

② Peak torque capacity is two times the published rating.

③ Maximum bores are reduced for hubs furnished with an interference fit and a setscrew over the keyway. Refer to Regal Rexnord™ Engineering Sheet 427-105 for details.

④ Minimum bore is the smallest bore to which a Rough Stock Bore (RSB) hub can be bored. Depending upon coupling size, RSB hubs may have only a blind centering hole or a through hole that will permit remachining of the hubs to the minimum bores specified.



## Caliper Disc Brake System

Regal Rexnord will supply Type T63 Brake Disc Couplings for use with calipers and power systems by others, or a fail-safe Falk® Caliper Disc Brake System. The system is comprised of a Falk Steelflex® Coupling, caliper disc brake, basic hydraulic circuits and components. These systems are designed to be used as parking or holding brakes or limited usage dynamic stopping brakes.

Regal Rexnord will purchase for resale the caliper disc brakes and hydraulic components preassembled in a power package.

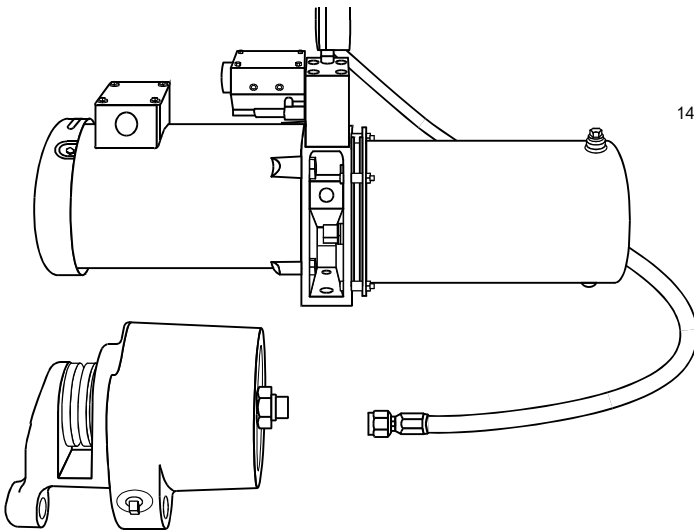
Regal Rexnord can assemble or mount the T63 coupling, disc brake and hydraulic system when these components are ordered in conjunction with Falk gear drives.

### Capabilities

The Falk Steelflex Disc Brake Coupling with Caliper Brake System has an assigned coupling brake rating range of 11 to 16 938 Nm.

### Description of the Disc Brake Coupling and Caliper System

The system consists of a standard T63 coupling using a disc diameter and thickness compatible with one caliper brake manufacturer. Both MICO-Minnesota Automotive Inc. and Goodyear Aerospace Corporation caliper disc brakes are used on Sizes 50T63 through 120T63 and 130T63, respectively. Both caliper manufacturers use different mounting hole patterns and bracket styles. MICO and Goodyear caliper disc brakes require hydraulic pressure.



## Caliper Disc Brakes

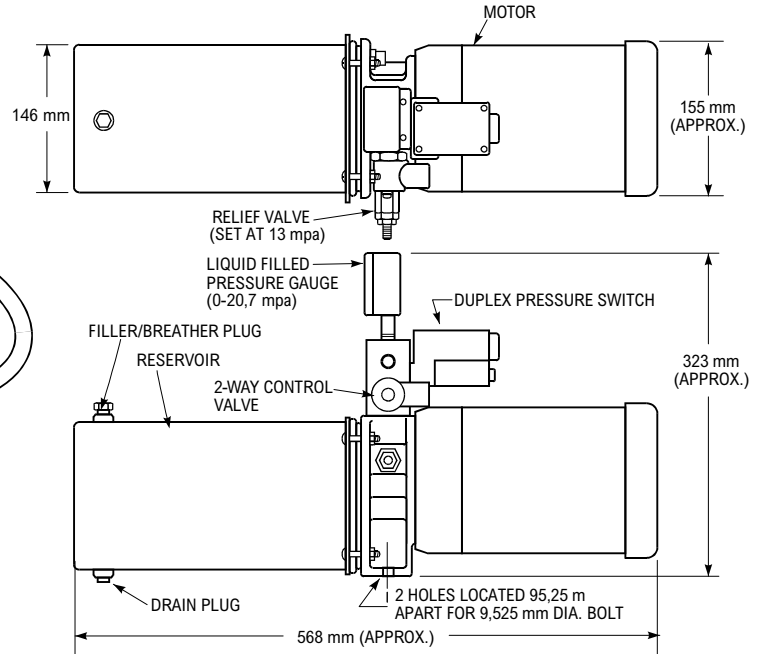
The caliper disc brake is spring-loaded to apply the brake. Hydraulic pressure is required to release or "hold off" the brake. Normal operation is to have the brake pressurized in the released position with the hydraulic system running. Conditions such as an electric power or pressure system failure, which reduces the system pressure below the release pressure of the brake, will initiate a brake application.

## Hydraulic Brake System

The system consists of an oil tank, filter, gear pump and electric motor, relief valve, check valve, solenoid direction control valve, pressure gauge, duplex pressure switch, 1,52 meter hydraulic hose with connections and caliper disc brake.

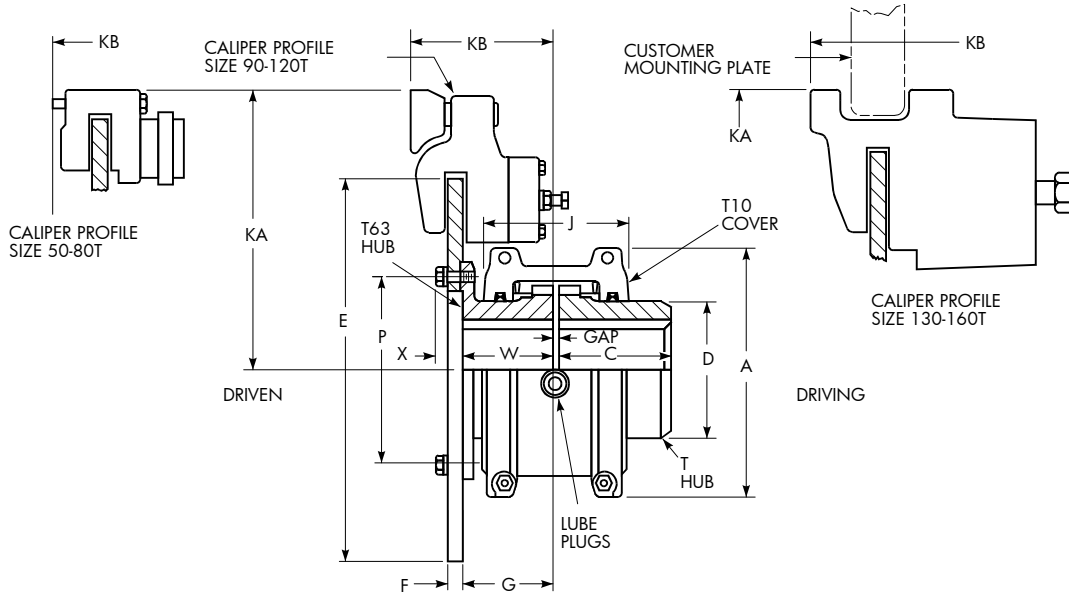
## Operation

The hydraulic brake system is actuated by turning on its electric motor. The motor drives a gear pump which produces a flow of oil between pump and solenoid directional control valve. When the solenoid directional control valve is energized, oil pressure rises in the caliper brake, compressing the Belleville springs to release the brake.



## Disc Brake Type T63

**NOTE:** Falk® Type T63 couplings or brake assemblies are not approved as a primary brake for applications used to lift or transport people such as elevators, escalators, hoists, lifts, etc.



### Dimensions (mm)

| Size ① | Cplg Brake Rating (Nm) | Brake Disc Dia x Thickness (E x F) ③ | Allow Speed RPM ④ | Max Bore (mm) ② | Min Bore (mm) ⑤ | Cplg Wt with No Bore & No Disc (kg) | Lube Wt (kg) | A     | C     | D     | G      | J     | P     | W      | X     | GAP |
|--------|------------------------|--------------------------------------|-------------------|-----------------|-----------------|-------------------------------------|--------------|-------|-------|-------|--------|-------|-------|--------|-------|-----|
| 20T    | 11                     | 203 x 6,4                            | 4500              | 28              | 13              | 2,55                                | 0,0272       | 97,0  | 47,6  | 39,7  | 59,9   | 66,7  | 71,4  | 60,5   | 11,7  | 3   |
| 30T    | 35                     | 254 x 6,4                            | 4500              | 35              | 13              | 3,31                                | 0,0408       | 105,7 | 47,6  | 49,2  | 59,9   | 68,3  | 79,4  | 60,5   | 11,7  | 3   |
| 40T    | 65                     | 254 x 6,4                            | 4500              | 43              | 13              | 4,26                                | 0,0544       | 114,3 | 50,8  | 57,2  | 59,9   | 69,9  | 98,4  | 60,5   | 11,7  | 3   |
| 50T    | 118                    | 254 x 6,4                            | 4150              | 50              | 13              | 6,35                                | 0,068        | 135,1 | 60,3  | 66,7  | 59,9   | 80,9  | 108,0 | 60,5   | 13,2  | 3   |
| 60T    | 209                    | 305 x 6,4                            | 3800              | 56              | 20              | 9,57                                | 0,0862       | 147,8 | 63,5  | 76,2  | 88,6   | 93,5  | 125,4 | 88,1   | 15,2  | 3   |
| 70T    | 331                    | 305 x 6,4                            | 3250              | 67              | 20              | 12,3                                | 0,113        | 158,8 | 76,2  | 87,3  | 88,6   | 96,8  | 133,4 | 88,1   | 15,2  | 3   |
| 80T    | 637                    | 305 x 6,4                            | 2850              | 80              | 27              | 19,8                                | 0,172        | 190,5 | 88,9  | 104,8 | 88,6   | 115,6 | 152,4 | 88,1   | 18,00 | 3   |
| 90T    | 1084                   | 407 x 12,7                           | 2700              | 95              | 27              | 28,4                                | 0,254        | 211,1 | 98,4  | 123,8 | 87,9   | 122,2 | 179,4 | 88,1   | 26,9  | 3   |
| 100T   | 1897                   | 407 x 12,7                           | 2400              | 110             | 42              | 47,7                                | 0,426        | 251,0 | 120,6 | 142,1 | 119,1  | 155,4 | 215,9 | 119,1  | 29,5  | 5   |
| 110T   | 2846                   | 458 x 12,7                           | 2250              | 120             | 42              | 64,9                                | 0,508        | 269,7 | 127,0 | 160,3 | 146,00 | 161,5 | 241,3 | 146,00 | 29,5  | 5   |
| 120T   | 4336                   | 509 x 12,7                           | 2025              | 140             | 61              | 92,1                                | 0,735        | 307,8 | 149,2 | 179,4 | 150,1  | 191,5 | 276,2 | 149,4  | 33,00 | 6   |
| 130T   | 6098                   | 559 x 12,7                           | 1800              | 170             | 67              | 132                                 | 0,907        | 345,9 | 161,9 | 217,5 | 153,4  | 195,1 | 295,3 | 152,4  | 35,6  | 6   |
| 140T   | 8808                   | 610 x 12,7                           | 1650              | 200             | 67              | 185                                 | 1,13         | 384,0 | 184,2 | 254,0 | 159,8  | 201,2 | 330,2 | 158,8  | 38,1  | 6   |
| 150T   | 12 195                 | 763 x 12,7                           | 1500              | 215             | 108             | 253                                 | 1,95         | 453,1 | 182,9 | 269,2 | 179,8  | 271,5 | 368,3 | 182,9  | 31,5  | 6   |
| 160T   | 16 938                 | 915 x 12,7                           | 1350              | 240             | 121             | 336                                 | 2,81         | 501,9 | 198,1 | 304,8 | 195,1  | 278,4 | 400,0 | 198,1  | 31,5  | 6   |

① Refer to **page 10** for General Information.

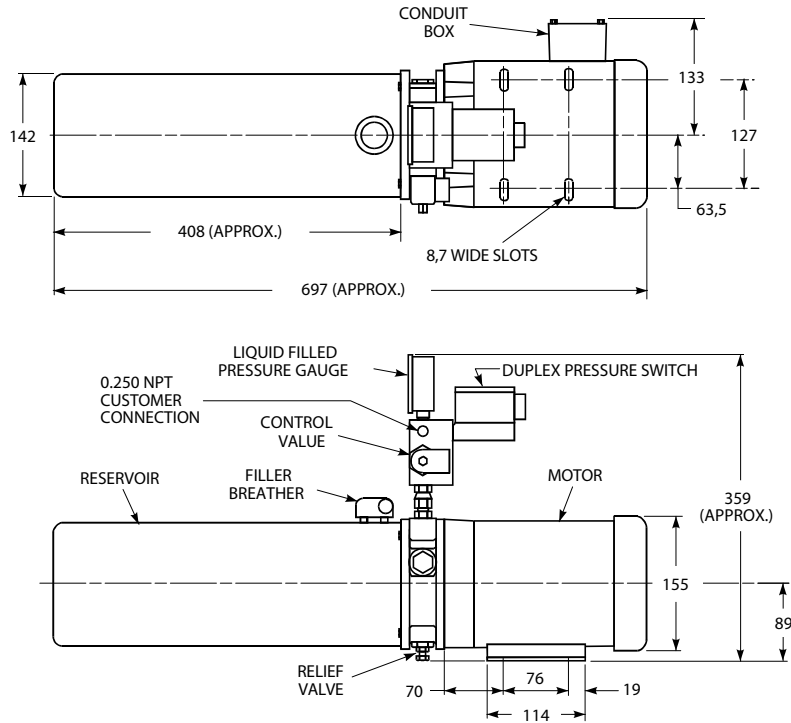
② Couplings will be furnished for interference fit without a setscrew. Clearance fit and/or hubs with setscrews are not recommended. Regal Rexnord™ standards apply unless otherwise specified. Maximum bores listed are based on recommended keys shown in **Table 26, page 40**. For other maximum bore-key combinations that can be manufactured to order, refer to **Table 14, page 34**.

③ Refer to Regal Rexnord for discs with dimensions other than shown.

④ Consult Factory for higher speeds.

⑤ Minimum bore is the smallest bore to which a Rough Stock Bore (RSB) hub can be bored. Depending upon coupling size, RSB hubs may have only a blind centering hole or a through hole that will permit remachining of the hubs to the minimum bores specified.

## Disc Brake Type T63



### Caliper System Dimensions (mm)

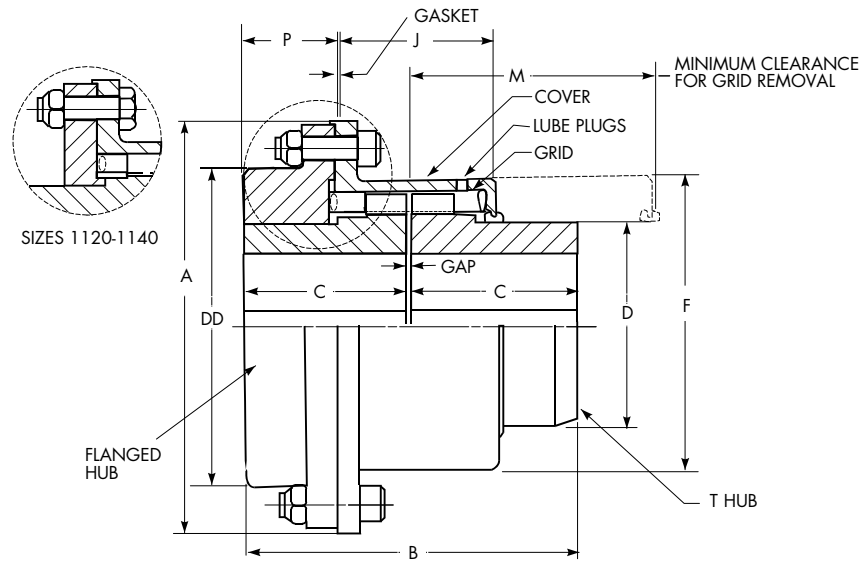
| Coupling Size | Caliper Brake ②   |             |             |        | KA    | KB ③  |
|---------------|---|-------------|-------------|--------|-------|-------|
|               | Brand   | Model No. ① | Torque (Nm) |        |       |       |
|               |   |             | Min         | Max    |       |       |
| 20T           | <b>These sizes are best activated by Electromagnetic or Pneumatic Caliper Systems</b> |             |             |        |       |       |
| 30T           |   |             |             |        |       |       |
| 40T           |   |             |             |        |       |       |
| 50T           | MICO, Inc.  | 02-515-002  | 62          | 122    | 158,0 | 96,5  |
| 60T           |   | 02-515-004  | 157         | 244    | 183,4 | 125,2 |
| 70T           |   | 02-515-008  | 475         | 556    | 183,4 | 125,2 |
| 80T           |   | 02-515-006  | 632         | 773    | 183,4 | 125,2 |
| 90T           |   | 02-530-306  | 701         | 1 456  | 292,1 | 138,7 |
| 100T          |   | 02-530-628  | 724         | 2 481  | 292,1 | 169,9 |
| 110T          |   | 02-530-628  | 830         | 2 847  | 342,9 | 196,8 |
| 120T          |   | 02-530-600  | 1 883       | 4 461  | 336,6 | 200,9 |
| 130T          | Meritor   | PD1591 15 1 | 2 203       | 8 262  | 336,6 | 216,9 |
| 140T          |   | PD1591 15 1 | 2 430       | 9 110  | 362,0 | 223,3 |
| 150T          |   | SCL25 15 4  | 4 661       | 23 304 | 461,8 | 245,9 |
| 160T          |   | SCL25 15 4  | 5 678       | 28 388 | 539,0 | 260,3 |

① These brakes use hydraulic oil (NOT brake fluid). Any high grade hydraulic oil with viscosities of 150 SSU-350 SSU @ 38° C is suitable.

② Maximum torque shown is rating with new pads. Minimum torque shown is rating at point when caliper requires adjustment for pad wear.

③ Dimension KB is to caliper mounting surface for Coupling Sizes 50T thru 120T, and to caliper edge for Coupling Sizes 130T and larger.

# High-Speed Type T70



## Dimensions (mm)

| Size <sup>①</sup> | Torque Rating (Nm) <sup>②</sup> | Allow Speed RPM <sup>④</sup> | Max Bore (mm) <sup>⑤</sup> | Min Bore (mm) <sup>⑥</sup> | Cplg Wt with No Bore (kg) | Lube Wt (kg) | A     | B     | C     | D     | DD    | F     | J     | M     | P     | GAP |
|-------------------|---------------------------------|------------------------------|----------------------------|----------------------------|---------------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
| 1030T             | 149                             | 10 000                       | 35                         | 13                         | 3,9                       | 0,041        | 115,9 | 98,6  | 47,6  | 49,2  | 83,7  | 80,8  | 50,3  | 77,7  | 26,8  | 3   |
| 1050T             | 435                             | 9 000                        | 50                         | 13                         | 8,8                       | 0,068        | 157,5 | 124,0 | 60,3  | 66,7  | 105,2 | 104,8 | 59,2  | 94,0  | 36,2  | 3   |
| 1070T             | 994                             | 8 200                        | 67                         | 20                         | 15,6                      | 0,113        | 182,9 | 155,4 | 76,2  | 87,3  | 126,5 | 129,0 | 65,9  | 103,1 | 49,8  | 3   |
| 1080T             | 2 050                           | 7 100                        | 80                         | 27                         | 26,4                      | 0,172        | 218,4 | 180,8 | 88,9  | 104,8 | 154,9 | 156,2 | 85,9  | 134,1 | 52,13 | 3   |
| 1090T             | 3 730                           | 6 000                        | 95                         | 27                         | 37,2                      | 0,254        | 244,9 | 200,2 | 98,4  | 123,8 | 180,3 | 175,8 | 92,2  | 143,8 | 58,5  | 3   |
| 1100T             | 6 280                           | 4 900                        | 110                        | 42                         | 62,8                      | 0,426        | 286,0 | 246,1 | 120,6 | 142,1 | 211,3 | 208,3 | 117,3 | 181,4 | 69,3  | 5   |
| 1110T             | 9 320                           | 4 500                        | 120                        | 42                         | 83,6                      | 0,508        | 324,1 | 258,8 | 127,0 | 160,3 | 245,4 | 228,6 | 122,2 | 190,5 | 73,9  | 5   |
| 1120T             | 13 700                          | 4 000                        | 140                        | 61                         | 97,9                      | 0,735        | 327,2 | 304,8 | 149,2 | 179,4 | 179,3 | 257,0 | 146,3 | 220,0 | 83,6  | 6   |
| 1130T             | 19 900                          | 3 600                        | 170                        | 67                         | 140                       | 0,907        | 365,3 | 330,2 | 161,9 | 217,5 | 217,4 | 295,1 | 149,5 | 225,0 | 94,8  | 6   |
| 1140T             | 28 600                          | 3 300                        | 200                        | 67                         | 210                       | 1,13         | 419,1 | 374,6 | 184,2 | 254,0 | 254,0 | 335,8 | 155,8 | 234,7 | 113,8 | 6   |

① Refer to **page 10** for General Information.

② Maximum bore is for hub with keyway for rectangular key.

③ Peak torque capacity is two times the published rating. Torque ratings for hubs with bushings differ from those shown, refer to **Table 18, page 36**.

④ Consult Factory for higher speeds.

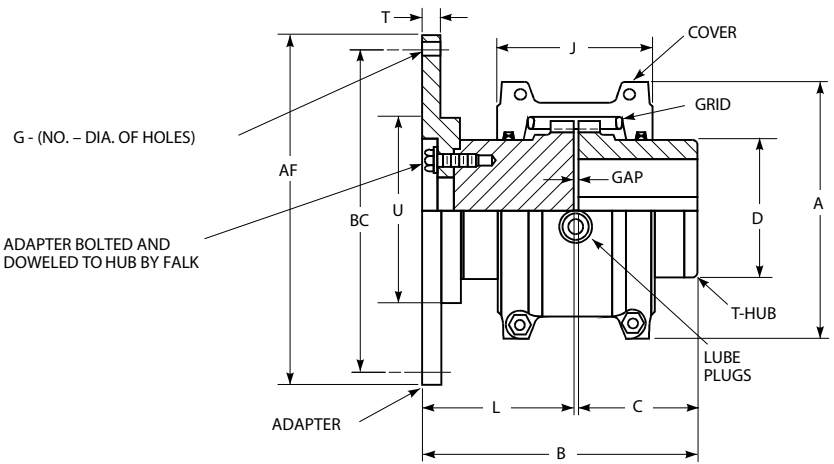
⑤ Maximum bores are reduced for hubs furnished with an interference fit and a setscrew over the keyway. Refer to Regal Rexnord™ Engineering Sheet 427-105 for details.

⑥ Minimum bore is the smallest bore to which a Rough Stock Bore (RSB) hub can be bored. Depending upon coupling size, RSB hubs may have only a blind centering hole or a through hole that will permit remachining of the hubs to the minimum bores specified.

# Engine Flywheel Adapter Type T90

Used primarily to connect the flywheel of an engine to the driven machinery. Adapter plates are designed to accommodate standard SAE J620 bolt patterns. The T90 design provides for higher torque ratings with resulting smaller sizes and lower costs than elastomeric coupling designs. The flexible gridmember provides torsional damping in addition to accepting misalignment. Adapter plates are bolted and doweled to the hub to provide a secure joint.

**Selection** — Determine the proper Steelflex® coupling size using the selection method. Check size selected against those shown in table below for the clutch size used on the engine flywheel. If the coupling size is not shown, refer all details to Regal Rexnord.



## Dimensions

| Clutch Diameter      | Adapter (values in inches) |        |            |       | Cplg Size ① | Assembly Torque Rating (Nm) ④ | Allow Speed RPM ⑤ | Max Bore Sq Key (mm) ⑥ | Min Bore (mm) ⑦ | Cplg Wt No Bore In T-Hub (kg) | WR <sup>2</sup> (kg <sup>2</sup> ) | A     | B     | C     | D     | J     | L     | U     | GAP |
|----------------------|----------------------------|--------|------------|-------|-------------|-------------------------------|-------------------|------------------------|-----------------|-------------------------------|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-----|
|                      | AF +.000 - .005            | BC     | G          | T     |             |                               |                   |                        |                 |                               |                                    |       |       |       |       |       |       |       |     |
| 6.5                  | 8.500                      | 7.875  | 6 - 0.344  | 0.375 | 1050T       | 395                           | 3 600             | 50                     | 13              | 8,16                          | 0,025                              | 138,2 | 141,7 | 60,5  | 66,5  | 79,2  | 78,0  | 127,0 | 3   |
|                      |                            |        |            | 0.375 | 1060T       | 621                           | 3 600             | 56                     | 20              | 10,4                          | 0,031                              | 150,9 | 150,9 | 63,5  | 76,2  | 91,9  | 84,1  | 139,7 | 3   |
|                      |                            |        |            | 0.375 | 1070T       | 904                           | 3 600             | 67                     | 20              | 13,2                          | 0,038                              | 162,1 | 176,3 | 76,2  | 87,4  | 95,2  | 96,8  | 149,4 | 3   |
| 7.5                  | 9.500                      | 8.750  | 8 - 0.344  | 0.375 | 1050T       | 395                           | 3 600             | 50                     | 13              | 9,07                          | 0,034                              | 138,2 | 141,7 | 60,5  | 66,5  | 79,2  | 78,0  | 127,0 | 3   |
|                      |                            |        |            | 0.375 | 1060T       | 621                           | 3 600             | 56                     | 20              | 10,9                          | 0,040                              | 150,9 | 150,9 | 63,5  | 76,2  | 91,9  | 84,1  | 139,7 | 3   |
|                      |                            |        |            | 0.375 | 1070T       | 904                           | 3 600             | 67                     | 20              | 13,6                          | 0,047                              | 162,1 | 176,3 | 76,2  | 87,4  | 95,2  | 96,8  | 149,4 | 3   |
| 8                    | 10.375                     | 9.625  | 6 - 0.406  | 0.375 | 1050T       | 395                           | 3 600             | 50                     | 13              | 9,53                          | 0,044                              | 138,2 | 141,7 | 60,5  | 66,5  | 79,2  | 78,0  | 127,0 | 3   |
|                      |                            |        |            | 0.375 | 1060T       | 621                           | 3 600             | 56                     | 20              | 11,8                          | 0,050                              | 150,9 | 150,9 | 63,5  | 76,2  | 91,9  | 84,1  | 139,7 | 3   |
|                      |                            |        |            | 0.375 | 1070T       | 904                           | 3 600             | 67                     | 20              | 14,5                          | 0,057                              | 162,1 | 176,3 | 76,2  | 87,4  | 95,2  | 96,8  | 149,4 | 3   |
|                      |                            |        |            | 0.500 | 1080T       | 1 860                         | 3 600             | 80                     | 27              | 21,8                          | 0,097                              | 193,5 | 205,0 | 88,9  | 104,6 | 115,8 | 112,8 | 165,1 | 3   |
| 10                   | 12.375                     | 11.625 | 8 - 0.406  | 0.500 | 1080T       | 1 860                         | 3 600             | 80                     | 27              | 24,0                          | 0,145                              | 193,5 | 205,0 | 88,9  | 104,6 | 115,8 | 112,8 | 165,1 | 3   |
| 11.5                 | 13.875                     | 13.125 | 8 - 0.406  | 0.500 | 1090T       | 3 390                         | 3 600             | 95                     | 27              | 33,6                          | 0,240                              | 212,9 | 227,3 | 98,6  | 124,0 | 122,2 | 125,5 | 190,5 | 3   |
| 14                   | 18.375                     | 17.250 | 8 - 0.531  | 0.650 | 1100T       | 5 710                         | 2 440             | 110                    | 42              | 60,3                          | 0,791                              | 251,0 | 276,9 | 120,6 | 142,0 | 155,4 | 151,4 | 212,9 | 5   |
|                      |                            |        |            | 0.750 | 1110T       | 8 470                         | 2 250             | 120                    | 42              | 73,5                          | 0,965                              | 269,7 | 292,1 | 127,0 | 160,3 | 161,5 | 160,3 | 231,9 | 5   |
| 16                   | 20.375                     | 19.250 | 8 - 0.531  | 0.650 | 1100T       | 5 710                         | 2 440             | 110                    | 42              | 65,8                          | 1,097                              | 251,0 | 276,9 | 120,6 | 142,0 | 155,4 | 151,4 | 212,9 | 5   |
|                      |                            |        |            | 0.750 | 1110T       | 8 470                         | 2 250             | 120                    | 42              | 79,4                          | 1,319                              | 269,7 | 292,1 | 127,0 | 160,3 | 161,5 | 160,3 | 231,9 | 5   |
| 18                   | 22.500                     | 21.375 | 6 - 0.656  | 0.750 | 1110T       | 5 710                         | 2 250             | 120                    | 42              | 86,2                          | 1,827                              | 269,7 | 292,1 | 127,0 | 160,3 | 161,5 | 160,3 | 231,9 | 5   |
|                      |                            |        |            | 0.750 | 1120T       | 12 400                        | 2 025             | 140                    | 61              | 110                           | 2,096                              | 307,8 | 341,1 | 149,4 | 179,3 | 191,5 | 185,4 | 254,0 | 6   |
|                      |                            |        |            | 0.900 | 1130T       | 10 100                        | 1 800             | 170                    | 67              | 150                           | 2,849                              | 345,9 | 373,1 | 162,1 | 217,4 | 195,1 | 204,7 | 292,1 | 6   |
| 21                   | 26.500                     | 25.250 | 12 - 0.656 | 0.900 | 1130T       | 10 100                        | 1 800             | 170                    | 67              | 168                           | 4,553                              | 345,9 | 373,1 | 162,1 | 217,4 | 195,1 | 204,7 | 298,5 | 6   |
|                      |                            |        |            | 1.000 | 1140T       | 26 000                        | 1 650             | 200                    | 67              | 217                           | 5,768                              | 384,0 | 419,9 | 184,2 | 254,0 | 201,2 | 229,4 | 336,6 | 6   |
|                      |                            |        |            | 1.000 | 1150T       | 36 200                        | 1 500             | 215                    | 108             | 276                           | 7,572                              | 453,1 | 420,6 | 182,9 | 269,2 | 271,3 | 231,4 | 349,3 | 6   |
| 24                   | 28.875                     | 27.250 | 12 - 0.812 | 0.900 | 1130T       | 10 100                        | 1 800             | 170                    | 67              | 180                           | 5,987                              | 345,9 | 373,1 | 162,1 | 217,4 | 195,1 | 204,7 | 298,5 | 6   |
|                      |                            |        |            | 1.000 | 1140T       | 26 000                        | 1 650             | 200                    | 67              | 230                           | 7,332                              | 384,0 | 419,9 | 184,2 | 254,0 | 201,2 | 229,4 | 336,6 | 6   |
|                      |                            |        |            | 1.000 | 1150T       | 36 200                        | 1 500             | 215                    | 108             | 289                           | 9,174                              | 453,1 | 420,6 | 182,9 | 269,2 | 271,3 | 231,4 | 349,3 | 6   |
| Machined as Required |                            |        |            | 1.000 | 1160T       | 50 800                        | 1 350             | 240                    | 121             | 298 ③                         | —                                  | 501,9 | 453,4 | 198,1 | 304,8 | 278,4 | 248,9 | 393,7 | 6   |
|                      |                            |        |            | 1.250 | 1170T       | 67 800                        | 1 225             | 280                    | 134             | 409 ③                         | —                                  | 566,9 | 495,3 | 215,9 | 355,6 | 307,3 | 273,0 | 438,2 | 6   |

① See page 10 for General Information and Reference Notes.

② Maximum bore is for hub with keyway for rectangular key.

③ For total coupling weight add  $[0,101 \times (AF^2 - U^2) \times T]$  to value shown.

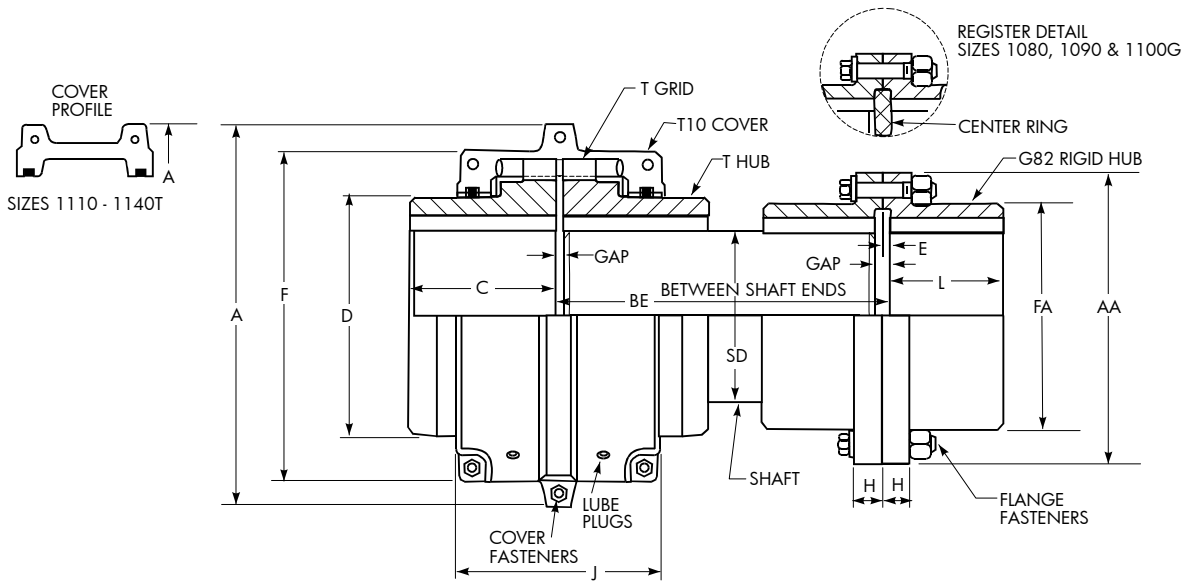
④ Peak torque capacity is two times the published rating. Torque ratings for hubs with bushings differ from those shown, refer to Table 18, page 36.

⑤ Consult Factory for higher speeds.

⑥ Maximum bores are reduced for hubs furnished with an interference fit and a setscrew over the keyway. Refer to Regal Rexnord™ Engineering Sheet 427-105 for details.

⑦ Minimum bore is the smallest bore to which a Rough Stock Bore (RSB) hub can be bored. Depending upon coupling size, RSB hubs may have only a blind centering hole or a through hole that will permit remachining of the hubs to the minimum bores specified.

# Floating Shaft Type T10/G82



## Dimensions (mm)

| T10 Cplg Size ① | G82 Cplg Size ① | Torque Rating (Nm) ③ | Allow Speed RPM ④ | Max Bore (mm) ⑤ |         | Min Bore (mm) ⑥ |         | Cplg Wt with No Bore & No Shaft (kg) | Wt Added per mm of SD Dia Between Hubs (kg) | Lube Wt (kg) | A     | BE    |       | C     | D     | E   | F     | H    | J     | L     | AA    | FA ②  | SD    | GAP   |         | Flange Fasteners       |          |
|-----------------|-----------------|----------------------|-------------------|-----------------|---------|-----------------|---------|--------------------------------------|---|--------------|-------|-------|-------|-------|-------|-----|-------|------|-------|-------|-------|-------|-------|-------|---------|------------------------|----------|
|                 |                 |                      |                   | T10 Hub         | G82 Hub | T10 Hub         | G82 Hub |                                      |   |              |       | Min   | Max   |       |       |     |       |      |       |       |       |       |       | T Hub | G82 Hub | No. per Flange & Grade | Dia (in) |
| 1110T           | 1035G           | 9 320                | 2250              | 120             | 164     | 42              | 51      | 125                                  | 0,0804                                      | 0,508        | 269,7 | 239,0 | 304,8 | 127,0 | 160,3 | 2,5 | —     | 28,4 | 161,5 | 102,1 | 279,4 | 211,3 | 114,3 | 5     | 5       | 8- GR 8                | 0.750    |
| 1120T           | 1040G           | 13 700               | 2025              | 140             | 196     | 61              | 64      | 183                                  | 0,0992                                      | 0,735        | 307,8 | 279,1 | 355,6 | 149,2 | 179,4 | 4,1 | —     | 28,4 | 191,5 | 115,3 | 317,5 | 245,4 | 127,0 | 6     | 8       | 8- GR 8                | 0.750    |
| 1130T           | 1045G           | 19 900               | 1800              | 170             | 216     | 67              | 76      | 261                                  | 0,143                                       | 0,907        | 345,9 | 307,1 | 381,0 | 161,9 | 217,5 | 4,1 | —     | 28,4 | 195,1 | 130,6 | 345,9 | 274,1 | 152,4 | 6     | 8       | 10- GR 8               | 0.750    |
| 1140T           | 1050G           | 28 600               | 1650              | 200             | 242     | 67              | 89      | 382                                  | 0,209                                       | 1,13         | 384,0 | 348,0 | 406,4 | 184,2 | 254,0 | 5,1 | —     | 38,1 | 201,2 | 147,3 | 388,9 | 305,8 | 184,2 | 6     | 10      | 8- GR 8                | 0.875    |
| 1150T           | 1055G           | 39 800               | 1500              | 215             | 267     | 108             | 102     | 508                                  | 0,254                                       | 1,95         | 453,1 | 372,1 | 406,4 | 182,9 | 269,2 | 5,1 | 391,2 | 38,1 | 271,5 | 172,7 | 425,4 | 334,3 | 203,2 | 6     | 10      | 14- GR 8               | 0.875    |
| 1160T           | 1060G           | 55 900               | 1350              | 240             | 293     | 121             | 115     | 645                                  | 0,322                                       | 2,81         | 501,9 | 404,1 | 457,2 | 198,1 | 304,8 | 6,6 | 436,9 | 25,4 | 278,4 | 186,4 | 457,2 | 366,0 | 228,6 | 6     | 13      | 14- GR 8               | 0.875    |
| 1170T           | 1070G           | 74 600               | 1225              | 280             | 341     | 134             | 127     | 983                                  | 0,397                                       | 3,49         | 566,9 | 459,2 | 508,0 | 215,9 | 355,6 | 8,4 | 487,2 | 28,4 | 307,3 | 220,2 | 527,0 | 424,9 | 254,0 | 6     | 17      | 16- GR 8               | 1.000    |
| 1180T           | 1080G           | 103 000              | 1100              | 300             | 341     | 153             | 102     | 1313                                 | 0,480                                       | 3,76         | 629,9 | 510,3 | 660,4 | 238,8 | 393,7 | 8,1 | 554,7 | 31,5 | 321,1 | 248,9 | 590,6 | 450,8 | 279,4 | 6     | 16      | 16- GR 8               | 1.125    |
| 1190T           | 1090G           | 137 000              | 1050              | 335             | 380     | 153             | 115     | 1756                                 | 0,572                                       | 4,4          | 675,6 | 557,5 | 711,2 | 259,1 | 436,9 | 8,1 | 607,8 | 38,1 | 325,1 | 275,8 | 660,4 | 508,0 | 304,8 | 6     | 16      | 18- GR 8               | 1.250    |
| 1200T           | 1100G           | 186 000              | 900               | 360             | 405     | 178             | 127     | 2254                                 | 0,671                                       | 5,62         | 756,9 | 609,3 | 762,0 | 279,4 | 497,8 | 9,1 | 660,4 | 44,5 | 355,6 | 305,3 | 711,2 | 530,4 | 330,2 | 6     | 18      | 18- GR 8               | 1.250    |

- ① Refer to **page 10** for General Information.
- ② Dimension FA is for an as-cast, unmachined surface for Sizes 1180, 1190 & 1200.
- ③ Peak torque capacity is two times the published rating. Torque ratings for hubs with bushings differ from those shown, refer to **Table 18, page 36**.
- ④ Consult Factory for higher speeds.
- ⑤ Maximum bores are reduced for hubs furnished with an interference fit and a setscrew over the keyway. Refer to Regal Rexnord™ Engineering Sheet 427-105 for details.
- ⑥ Minimum bore is the smallest bore to which a Rough Stock Bore (RSB) hub can be bored. Depending upon coupling size, RSB hubs may have only a blind centering hole or a through hole that will permit remachining of the hubs to the minimum bores specified.



# Engineering Data

**Table 13 — Shaft Diameters & Ratings for NEMA 60 Hertz & 50 Hertz Metric Motors**

| Frame Size     |                       | NEMA 60 Hertz Motors (HP) |          |       |       |       |     |       |       |     |     |     |     |     |     |     |     |           |     |     |     |     |     |     |     |     |     |     |     |
|----------------|-----------------------|---------------------------|----------|-------|-------|-------|-----|-------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                |                       | T Frames                  |          |       |       |       |     |       |       |     |     |     |     |     |     |     |     | TS Frames |     |     |     |     |     |     |     |     |     |     |     |
| Shaft Dia (in) |                       | 143                       | 145      | 182   | 184   | 213   | 215 | 254   | 256   | 284 | 286 | 324 | 326 | 364 | 365 | 404 | 405 | 444       | 445 | 284 | 286 | 324 | 326 | 364 | 365 | 404 | 405 | 444 | 445 |
| 3600 RPM       | Drip Proof            | 1-1/2                     | 2-3      | 5     | 7-1/2 | 10    | 15  | 20    | 25    | 30  | 40  | 50  | 60  | 75  | 100 | 125 | 150 | 200       | 250 | 30  | 40  | 50  | 60  | 75  | 100 | 125 | 150 | 200 | 250 |
|                | Enclosed              | 1-1/2                     | 2        | 3     | 5     | 7-1/2 | 10  | 15    | 20    | 25  | 30  | 40  | 50  | 60  | 75  | —   | 100 | 125       | 150 | 25  | 30  | 40  | 50  | 60  | 75  | —   | 100 | 125 | 150 |
| 1800 RPM       | Drip Proof            | 1                         | 1-1/2, 2 | 3     | 5     | 7-1/2 | 10  | 15    | 20    | 25  | 30  | 40  | 50  | 60  | 75  | 100 | 125 | 150       | 200 | 25  | 30  | 40  | 50  | 60  | 75  | 100 | 125 | 150 | 200 |
|                | Enclosed              | 1                         | 1-1/2, 2 | 3     | 5     | 7-1/2 | 10  | 15    | 20    | 25  | 30  | 40  | 50  | 60  | 75  | —   | 100 | 125       | 150 | 25  | 30  | 40  | 50  | 60  | 75  | —   | 100 | 125 | 150 |
| 1200 RPM       | Drip Proof & Enclosed | 3/4                       | 1        | 1-1/2 | 2     | 3     | 5   | 7-1/2 | 10    | 15  | 20  | 25  | 30  | 40  | 50  | 60  | 75  | 100       | 125 | 15  | 20  | 25  | 30  | 40  | 50  | 60  | 75  | 100 | 125 |
| 900 RPM        | Drip Proof & Enclosed | 1/2                       | 3/4      | 1     | 1-1/2 | 2     | 3   | 5     | 7-1/2 | 10  | 15  | 20  | 25  | 30  | 40  | 50  | 60  | 75        | 100 | 10  | 15  | 20  | 25  | 30  | 40  | 50  | 60  | 75  | 100 |

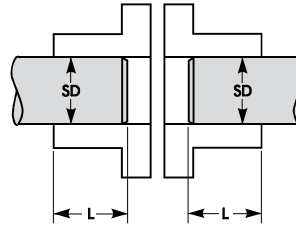
| Frame Size     |  | 50 Hertz Metric Motors (kW) |      |      |             |      |            |          |          |      |      |      |            |          |          |              |              |              |              |
|----------------|--|-----------------------------|------|------|-------------|------|------------|----------|----------|------|------|------|------------|----------|----------|--------------|--------------|--------------|--------------|
|                |  | 80                          | 90S  | 90L  | 100L        | 112M | 132S       | 132M     | 160M     | 160L | 180M | 180L | 200M/L     | 225S     | 225M     | 250S         | 250M         | 280S         | 280M         |
| Shaft Dia (mm) |  | 19                          | 24   | 24   | 28          | 28   | 38         | 38       | 42       | 42   | 48   | 48   | 55         | 55<br>60 | 55<br>60 | 60, 65<br>70 | 60, 65<br>70 | 65, 75<br>80 | 65, 75<br>80 |
| 3000 RPM       |  | 0,75<br>1,10                | 1,5  | 2,2  | 3,0         | 4    | 5,5<br>7,5 | —        | 11<br>15 | 18,5 | 22   | —    | 30<br>37   | 45       | 45       | 55           | 55<br>75     | 75<br>90     | 90<br>110    |
| 1500 RPM       |  | 0,55<br>0,75                | 1,1  | 1,5  | 2,2<br>3,0  | 4    | 5,5        | 7,5      | 11       | 15   | 18,5 | 22   | 30         | 37<br>45 | 45       | 55           | 55<br>75     | 75<br>90     | 90<br>110    |
| 1000 RPM       |  | 0,37<br>0,55                | 0,75 | 1,1  | 1,5         | 2,2  | 3          | 4<br>5,5 | 7,5      | 11   | —    | 15   | 18,5<br>22 | 30       | 30       | 37           | 37<br>45     | 45<br>45     | 55<br>75     |
| 750 RPM        |  | 0,18<br>0,25                | 0,37 | 0,55 | 0,75<br>1,1 | 1,5  | 2,2        | 3        | 4<br>5,5 | 7,5  | —    | 11   | 15         | 18,5     | 22       | 30           | 30<br>37     | 37<br>45     | 45<br>55     |

**OVERHANGING HUBS** — Hubs may be overhung on the shafting, provided there is more than one shaft diameter of hub/shaft engagement for clearance fits, or more than 0.75 times shaft diameter hub/shaft engagement for interference fits. If hub engagement is less than what is required, use a standard long hub listed in **Table 22** on **page 39**, or submit application details to the Factory.

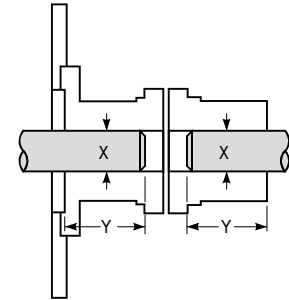
Dimension L must be equal to or greater than Dimension SD for clearance fits, or greater than Dimension SD times 0.75 for interference fits. For Type T63, Dimension Y must be equal to or greater than Dimension X.

**Example:** SD = 100 mm; then L must be 100 mm or more for clearance fits or 75 mm or more for interference fits.

**CAUTION:** The effect of open keyways on coupling balance should be accounted for.



**Example – Type T, Other than T63**



**Example – Type T63**

# Engineering Data

**Table 14 — Type T Hub & Flanged Hub Bore Ranges with Square & Rectangular Keys ③**

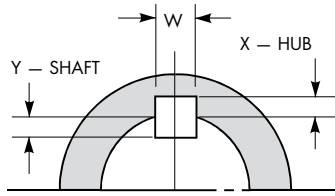
| Size<br>① | Inches        |                    |         |         |            |                         |         |            |         |       |                     |       |       |                          |       | Millimeters ⑤ |          |                              |  |
|-----------|---------------|--------------------|---------|---------|------------|-------------------------|---------|------------|---------|-------|---------------------|-------|-------|--------------------------|-------|---------------|----------|------------------------------|--|
|           | Min Bore<br>⑧ | For One Square Key |         |         |            | For One Rectangular Key |         |            |         |       | For Two Square Keys |       |       | For Two Rectangular Keys |       |               | Min Bore | Max Bore                     |  |
|           |               | Max Bore ⑨         | Y=X     |         | Max Bore ⑨ | Y=X                     |         | Max Bore ⑨ | Y=W/2 ④ |       | Max Bore ⑨          | Y=X   |       | Max Bore ⑨               | Y=X   |               |          | Std Bore Fits per Table 30 ⑥ | Int Fit per Table 30 w/ Setscrew Over Keyway |
|           |               |                    | W       | Y       |            | W                       | Y       |            | W       | Y     |                     | W     | Y     |                          |       |               |          |                              |  |
| 20/1020T  | 0.500         | 1.125 ②            | 0.250 ② | 0.125 ② | 1.187      | 0.250                   | 0.093   | 1.250      | 0.250   | 0.062 | —                   | —     | —     | —                        | —     | —             | 13       | 28                           | 24   |
| 30/1030T  | 0.500         | 1.375 ②            | 0.312 ② | 0.156 ② | 1.437      | 0.375                   | 0.125   | 1.562      | 0.375   | 0.062 | —                   | —     | —     | —                        | —     | —             | 13       | 35                           | 30   |
| 40/1040T  | 0.500         | 1.625 ②            | 0.375 ② | 0.187 ② | 1.750      | 0.375                   | 0.125   | 1.750      | 0.375   | 0.062 | —                   | —     | —     | —                        | —     | —             | 13       | 43                           | 38   |
| 50/1050T  | 0.500         | 1.875 ②            | 0.500 ② | 0.250 ② | 2.000      | 0.500                   | 0.187   | 2.125      | 0.500   | 0.125 | —                   | —     | —     | —                        | —     | —             | 13       | 50                           | 45   |
| 60/1060T  | 0.750         | 2.125 ②            | 0.500 ② | 0.250 ② | 2.250      | 0.500                   | 0.187   | 2.375      | 0.625   | 0.125 | —                   | —     | —     | —                        | —     | —             | 20       | 56                           | 50   |
| 70/1070T  | 0.750         | 2.500 ②            | 0.625 ② | 0.312 ② | 2.687      | 0.625                   | 0.218   | 2.875      | 0.750   | 0.125 | —                   | —     | —     | —                        | —     | —             | 20       | 67                           | 60   |
| 80/1080T  | 1.062         | 3.000 ②            | 0.750 ② | 0.375 ② | 3.250      | 0.750                   | 0.250   | 3.375      | 0.875   | 0.187 | —                   | —     | —     | —                        | —     | —             | 27       | 80                           | 75   |
| 90/1090T  | 1.062         | 3.500 ②            | 0.875 ② | 0.437 ② | 3.750      | 0.875                   | 0.312   | 3.875      | 1.000   | 0.250 | —                   | —     | —     | —                        | —     | —             | 27       | 95                           | 90   |
| 100/1100T | 1.625         | 4.000 ②            | 1.000 ② | 0.500 ② | 4.250      | 1.000                   | 0.375   | 4.500      | 1.000   | 0.250 | —                   | —     | —     | —                        | —     | —             | 42       | 110                          | 100  |
| 110/1110T | 1.625         | 4.500 ②            | 1.000 ② | 0.500 ② | 4.625      | 1.250                   | 0.437   | 5.000      | 1.250   | 0.250 | —                   | —     | —     | —                        | —     | —             | 42       | 120                          | 110  |
| 120/1120T | 2.375         | 5.000 ②            | 1.250 ② | 0.625 ② | 5.375      | 1.250                   | 0.437   | 5.750      | 1.500   | 0.250 | —                   | —     | —     | —                        | —     | —             | 61       | 140                          | 120  |
| 130/1130T | 2.625         | 6.000 ②            | 1.500 ② | 0.750 ② | 6.500      | 1.500                   | 0.500   | 6.500      | 1.500   | 0.250 | —                   | —     | —     | —                        | —     | —             | 67       | 170                          | 150  |
| 140/1140T | 2.625         | 7.000              | 1.750   | 0.875   | 7.250 ②    | 1.750 ②                 | 0.750 ② | 7.750      | 2.000   | 0.500 | —                   | —     | —     | —                        | —     | —             | 67       | 200                          | 180  |
| 150/1150T | 4.250         | 7.500              | 1.750   | 0.875   | 8.000 ②    | 2.000 ②                 | 0.750 ② | —          | —       | —     | —                   | —     | —     | —                        | —     | —             | 108      | 215                          | 190  |
| 160/1160T | 4.750         | 8.500              | 2.000   | 1.000   | 9.000 ②    | 2.000 ②                 | 0.750 ② | —          | —       | —     | —                   | —     | —     | —                        | —     | —             | 121      | 240                          | 215  |
| 1170T     | 5.250         | 9.750              | 2.500   | 1.250   | 10.000 ②   | 2.500 ②                 | 0.875 ② | —          | —       | —     | 10.750              | 1.750 | 0.875 | 11.000                   | 1.750 | 0.750         | 134      | 280                          | 240  |
| 1180T     | 6.000         | 10.750             | 2.500   | 1.250   | 11.000 ②   | 2.500 ②                 | 0.875 ② | —          | —       | —     | 12.000              | 1.750 | 0.875 | 12.250                   | 2.000 | 0.750         | 153      | 300                          | 260  |
| 1190T     | 6.000         | 11.750             | 3.000   | 1.500   | 12.000 ②   | 3.000 ②                 | 1.000 ② | —          | —       | —     | 13.000              | 2.000 | 1.000 | 13.250                   | 2.000 | 0.750         | 153      | 336                          | 290  |
| 1200T     | 7.000         | 12.750             | 3.000   | 1.500   | 13.000 ②   | 3.000 ②                 | 1.000 ② | —          | —       | —     | 14.000              | 2.500 | 1.250 | 14.250                   | 2.500 | 0.875         | 178      | 360                          | 320  |
| 1210T     | 7.000         | 13.750             | 3.500   | 1.750   | 14.000 ②   | 3.500 ②                 | 1.250 ② | —          | —       | —     | 15.000              | 2.500 | 1.250 | 15.250                   | 2.500 | 0.875         | 178      | 390                          | 350  |
| 1220T     | 8.000         | 14.750             | 3.500   | 1.750   | 15.000 ②   | 3.500 ②                 | 1.250 ② | —          | —       | —     | 16.000              | 2.500 | 1.250 | 16.250                   | 3.000 | 1.000         | 178      | 420                          | 380  |
| 1230T     | 8.000         | 15.750             | 4.000   | 2.000   | 16.000 ②   | 4.000 ②                 | 1.500 ② | —          | —       | —     | 17.000              | 3.000 | 1.500 | 17.250                   | 3.000 | 1.000         | 254      | 450                          | 410  |
| 1240T     | 10.000        | 16.750             | 4.000   | 2.000   | 17.000 ②   | 4.000 ②                 | 1.500 ② | —          | —       | —     | 18.000              | 3.000 | 1.500 | 18.250                   | 3.000 | 1.000         | 254      | 480                          | 440  |
| 1250T     | 10.000        | 18.000             | 4.000   | 2.000   | 18.500 ②   | 5.000 ②                 | 1.750 ② | —          | —       | —     | 19.250              | 3.500 | 1.750 | 19.750                   | 3.500 | 1.250 ⑦       | ⑦        | ⑦                            | ⑦  |
| 1260T     | 10.000        | 19.500             | 5.000   | 2.500   | 20.000 ②   | 5.000 ②                 | 1.750 ② | —          | —       | —     | 20.750              | 3.500 | 1.750 | 21.250                   | 3.500 | 1.250 ⑦       | ⑦        | ⑦                            | ⑦  |

**Table 15 — Type T31& T35 Shaft Hub Bore Ranges with Square & Rectangular Keys ③**

| Size<br>① | Inches        |                    |         |         |                         |         |         |            |         |          | Millimeters                |   |  |     |
|-----------|---------------|--------------------|---------|---------|-------------------------|---------|---------|------------|---------|----------|----------------------------|---|--|-----|
|           | Min Bore<br>⑧ | For One Square Key |         |         | For One Rectangular Key |         |         |            |         | Min Bore | Max Bore                   |   |  |     |
|           |               | Max Bore ⑨         | Y=X     |         | Max Bore ⑨              | Y=X     |         | Max Bore ⑨ | Y=W/2 ④ |          | Std Bore Fits per Table 30 | Int Fit per Table 30 w/Setscrew Over Keyway | With Puller Holes per Table 23 or Table 24 |     |
|           |               |                    | W       | Y       |                         | W       | Y       |            | W       |          |                            |   |  | Y   |
| 1020T     | 0.500         | 1.375 ②            | 0.312 ② | 0.156 ② | 1.437                   | 0.375   | 0.125   | 1.562      | 0.375   | 0.062    | 13                         | 35  | 30   | 35  |
| 1030T     | 0.500         | 1.625 ②            | 0.375 ② | 0.188 ② | 1.750                   | 0.375   | 0.125   | —          | —       | —        | 13                         | 43  | 38   | 43  |
| 1040T     | 0.500         | 2.125 ②            | 0.500 ② | 0.250 ② | 2.250                   | 0.500   | 0.188   | 2.375      | 0.625   | 0.125    | 13                         | 56  | 50   | 56  |
| 1050T     | 0.500         | 2.375 ②            | 0.625 ② | 0.312 ② | 2.500                   | 0.625   | 0.218   | 2.625      | 0.625   | 0.125    | 13                         | 67  | 60   | 67  |
| 1060T     | 0.750         | 2.875 ②            | 0.750 ② | 0.375 ② | 3.125                   | 0.750   | 0.250   | 3.250      | 0.750   | 0.125    | 20                         | 80  | 76   | 80  |
| 1070T     | 0.750         | 3.125 ②            | 0.750 ② | 0.375 ② | 3.250                   | 0.750   | 0.250   | 3.375      | 0.875   | 0.188    | 20                         | 85  | 80   | 85  |
| 1080T     | 1.062         | 3.500 ②            | 0.875 ② | 0.438 ② | 3.750                   | 0.875   | 0.312   | 3.875      | 1.000   | 0.250    | 27                         | 95  | 90   | 88  |
| 1090T     | 1.062         | 4.000 ②            | 1.000 ② | 0.500 ② | 4.250                   | 1.000   | 0.375   | 4.500      | 1.000   | 0.250    | 27                         | 110   | 100  | 100 |
| 1100T     | 1.500         | 4.750 ②            | 1.250 ② | 0.625 ② | 5.000                   | 1.250   | 0.438   | 5.250      | 1.250   | 0.250    | 39                         | 130   | 120  | 120 |
| 1110T     | 2.000         | 5.500 ②            | 1.250 ② | 0.625 ② | 5.875                   | 1.500   | 0.500   | 6.250      | 1.500   | 0.250    | 51                         | 150   | 140  | 140 |
| 1120T     | 2.500         | 6.250 ②            | 1.500 ② | 0.750 ② | 6.500                   | 1.500   | 0.500   | 6.750      | 1.750   | 0.625    | 64                         | 170   | 165  | 160 |
| 1130T     | 3.000         | 6.750              | 1.750   | 0.875   | 7.000 ②                 | 1.750 ② | 0.750 ② | 7.250      | 1.750   | 0.625    | 77                         | 190   | 180  | 175 |
| 1140T     | 3.500         | 7.500              | 2.000   | 1.000   | 8.000 ②                 | 2.000 ② | 0.750 ② | 8.500      | 2.000   | 0.500    | 89                         | 210   | 200  | 200 |
| 1150T     | 4.000         | 9.750              | 2.000   | 1.000   | 10.000 ②                | 2.500 ② | 0.875 ② | —          | —       | —        | 102                        | 270   | 230  | 250 |
| 1160T     | 4.500         | 10.500             | 2.500   | 1.250   | 11.000 ②                | 2.500 ② | 0.875 ② | —          | —       | —        | 115                        | 290   | 260  | 280 |
| 1170T     | 5.000         | 12.000             | 3.000   | 1.500   | 13.000 ②                | 3.000 ② | 1.000 ② | —          | —       | —        | 127                        | 340   | 290  | 330 |
| 1180T     | 4.000         | 12.000             | 3.000   | 1.500   | 13.000 ②                | 3.000 ② | 1.000 ② | —          | —       | —        | 102                        | 340   | 310  | 340 |
| 1190T     | 4.500         | 13.250             | 3.500   | 1.750   | 14.250 ②                | 3.500 ② | 1.250 ② | —          | —       | —        | 116                        | 380   | 340  | 380 |
| 1200T     | 5.000         | 14.250             | 3.500   | 1.750   | 15.000 ②                | 3.500 ② | 1.250 ② | —          | —       | —        | 127                        | 400   | 365  | 400 |

- ① Refer to page 10 for general information.  
Metric keyways and keyway radiuses will be furnished per ISO/R773 (DIN 6885/1) and Js9 width tolerances unless otherwise specified. P9 and D10 width tolerance can be furnished on request. Refer to 427-140 for tolerances.
- ② Shaded areas indicate maximum bores using standard recommended keys shown in Table 26.
- ③ Unless otherwise specified, Sizes 1020 thru 1090 will be furnished for clearance fit with a setscrew over the keyway and Sizes 1100 and larger will be furnished for interference fit without a setscrew. Exception: For Types T50 and T70, coupling hubs are normally furnished with an average interference fit of 0,0005 mm per millimeter of shaft diameter. Clearance fit and/or hubs with setscrews are not recommended.
- ④ Shaft keyway depth Y equals one-half of square key W. **NOTE:** Check key stresses.
- ⑤ Also applies to Hub Type T61, T63, T50 pilot hub and flanged hub of T50 and T70 type couplings.
- ⑥ With standard puller bolt holes per Table 23, page 39.
- ⑦ Consult Regal Rexnord.
- ⑧ Minimum bore is the smallest bore to which a Rough Stock Bore (RSB) hub can be bored. Depending upon coupling size, RSB hubs may have only a blind centering hole or a through hole that will permit remachining of the hubs to the minimum bores specified.
- ⑨ Maximum bores are reduced for hubs furnished with an interference fit and a setscrew over the keyway. Refer to Regal Rexnord™ Engineering Sheet 427-105 for details.

# Engineering Data



CHECK KEY STRESSES

**Table 16 — T41 Hub Bore Ranges with Square and Rectangular Keys**

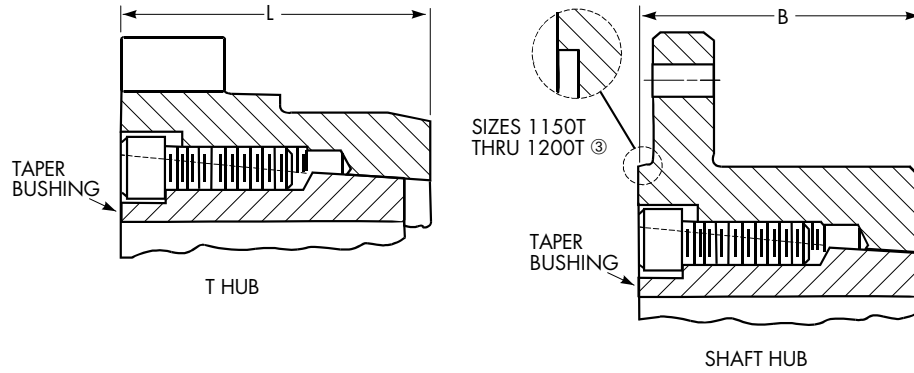
| Size<br>① | Inches     |                    |       |                         |            |       |       |          | Millimeters |                            |  |
|-----------|------------|--------------------|-------|-------------------------|------------|-------|-------|----------|-------------|----------------------------|--|
|           | Min Bore ⑥ | For One Square Key |       | For One Rectangular Key |            |       |       | Min Bore | Max Bore    |                            |  |
|           |            | Max Bore ⑦         | Y=X   |                         | Max Bore ⑦ | W     | X     |          | Y           | Std Bore Fits per Table 30 | Int Fit per Table 30 w/ Setscrew Over Keyway |
|           |            | W                  | X     |                         |            |       |       |          |             |                            |  |
| 1020T41   | 0.500      | 1.000 ④            | 0.250 | 0.125                   | 1.125      | 0.250 | 0.062 | 0.125    | 13          | 24 ⑤                       | ⑤  |
| 1030T41   | 0.500      | 1.250 ④            | 0.250 | 0.125                   | 1.375      | 0.312 | 0.093 | 0.156    | 13          | 32                         | ⑤  |
| 1040T41   | 0.500      | 1.375 ④            | 0.312 | 0.156                   | 1.625      | 0.375 | 0.062 | 0.187    | 13          | 38                         | 32   |
| 1050T41   | 0.500      | 1.750 ④            | 0.375 | 0.187                   | 1.875      | 0.500 | 0.125 | 0.250    | 13          | 45                         | 40   |
| 1060T41   | 0.750      | 1.875 ④            | 0.500 | 0.250                   | 2.125      | 0.500 | 0.125 | 0.250    | 20          | 50                         | 45   |
| 1070T41   | 0.750      | 2.250 ④            | 0.500 | 0.250                   | 2.500      | 0.625 | 0.125 | 0.312    | 20          | 60                         | 50   |
| 1080T41   | 1.062      | 2.625 ④            | 0.625 | 0.312                   | 2.750      | 0.625 | 0.125 | 0.312    | 27          | 70                         | 65   |
|           |            |                    |       |                         | 3.000      | 0.750 | 0.125 | 0.375    | 27          | 70                         | 65   |
| 1090T41   | 1.062      | 3.125 ④            | 0.750 | 0.375                   | 3.250      | 0.750 | 0.125 | 0.375    | 27          | 85                         | 80   |
|           |            |                    |       |                         | 3.500      | 0.875 | 0.187 | 0.437    | 27          | 85                         | 80   |
| 1100T41   | 1.625      | 3.625 ④            | 0.875 | 0.437                   | 3.750      | 0.875 | 0.187 | 0.437    | 42          | 100                        | 90   |
|           |            |                    |       |                         | 4.000      | 1.000 | 0.250 | 0.500    | 42          | 100                        | 90   |
| 1110T41   | 1.625      | 4.000 ④            | 1.000 | 0.500                   | 4.500      | 1.000 | 0.250 | 0.500    | 42          | 110                        | 100  |
| 1120T41   | 2.375      | 4.500 ④            | 1.000 | 0.500                   | 5.000      | 1.250 | 0.250 | 0.625    | 61          | 120                        | 110  |
| 1130T41   | 2.625      | 5.250 ④            | 1.250 | 0.625                   | 5.500      | 1.250 | 0.250 | 0.625    | 67          | 145                        | 135  |
|           |            |                    |       |                         | 6.000      | 1.500 | 0.250 | 0.750    | 67          | 145                        | 135  |
| 1140T41   | 2.625      | 6.500 ④            | 1.500 | 0.750                   | 7.250 ③    | 1.750 | 0.500 | 0.750    | 67          | 180                        | 165  |
| 1150T41   | 4.250      | 6.750 ②            | 1.750 | 0.875                   | 7.000 ④    | 1.750 | 0.750 | 0.750    | 108         | 190                        | 180  |
|           |            |                    |       |                         | 7.500 ③    | 1.750 | 0.500 | 0.750    | 108         | 190                        | 180  |
|           |            |                    |       |                         | 8.000 ③    | 2.000 | 0.375 | 0.750    | 108         | 190                        | 180  |
| 1160T41   | 4.750      | 7.750 ②            | 2.000 | 1.000                   | 8.500 ④    | 2.000 | 0.750 | 0.750    | 121         | 225                        | 200  |
|           |            |                    |       |                         | 9.000 ③    | 2.000 | 0.500 | 0.750    | 121         | 225                        | 200  |
| 1170T41   | 5.250      | 9.000 ②            | 2.000 | 1.000                   | 9.500 ④    | 2.500 | 0.875 | 0.875    | 134         | 250                        | 230  |
|           |            |                    |       |                         | 10.000 ③   | 2.500 | 0.500 | 0.875    | 134         | 250                        | 230  |
| 1180T41   | 6.000      | 10.250 ②           | 2.500 | 1.250                   | 11.000 ④   | 2.500 | 0.875 | 0.875    | 153         | 290                        | 260  |
| 1190T41   | 6.000      | 11.000 ②           | 2.500 | 1.250                   | 12.000 ④   | 3.000 | 1.000 | 1.000    | 153         | 320                        | 285  |
| 1200T41   | 7.000      | 12.125 ②           | 3.000 | 1.500                   | 13.000 ④   | 3.000 | 1.000 | 1.000    | 178         | 340                        | 310  |

**Table 17 — Type G82 Hub (used on T10/G82 assemblies) Bore Ranges with Square & Rectangular Keys**

| Size<br>① | Inches     |                    |         |                         |            |         |          | Millimeters                |  |                                |     |
|-----------|------------|--------------------|---------|-------------------------|------------|---------|----------|----------------------------|--|--------------------------------|-----|
|           | Min Bore ⑥ | For One Square Key |         | For One Rectangular Key |            |         | Min Bore | Max Bore                   |  |                                |     |
|           |            | Max Bore ⑦         | Y=X     |                         | Max Bore ⑦ | Y=X     |          | Std Bore Fits per Table 30 | Int Fit per Table 30 w/ Setscrew Over Keyway | With Puller Holes per Table 24 |     |
|           |            | W                  | X       |                         | W          | X       |          |                            |  |                                |     |
| 1035G     | 2.000 ④    | 5.875 ④            | 1.500 ④ | 0.750 ④                 | 6.500      | 1.500   | 0.500    | 51                         | 163  | 150                            | 150 |
| 1040G     | 2.500      | 6.750              | 1.750   | 0.875                   | 7.250 ④    | 1.750 ④ | 0.750 ④  | 64                         | 196  | 167                            | 185 |
| 1045G     | 3.000      | 7.625              | 1.750   | 0.875                   | 8.125 ④    | 2.000 ④ | 0.750 ④  | 77                         | 216  | 190                            | 205 |
| 1050G     | 3.500      | 8.750              | 2.000   | 1.000                   | 9.000 ④    | 2.000 ④ | 0.750 ④  | 89                         | 235  | 220                            | 228 |
| 1055G     | 4.000      | 9.750              | 2.000   | 1.000                   | 10.000 ④   | 2.500 ④ | 0.875 ④  | 102                        | 266  | 230                            | 250 |
| 1060G     | 4.500      | 10.500             | 2.500   | 1.250                   | 11.000 ④   | 2.500 ④ | 0.875 ④  | 115                        | 290  | 260                            | 280 |
| 1070G     | 5.000      | 12.000             | 3.000   | 1.500                   | 13.000 ④   | 3.000 ④ | 1.000 ④  | 127                        | 340  | 290                            | 330 |
| 1080G     | 4.000      | 13.000             | 3.000   | 1.500                   | 13.250 ④   | 3.000 ④ | 1.000 ④  | 102                        | 340  | 310                            | 340 |
| 1090G     | 4.500      | 14.250             | 3.500   | 1.750                   | 15.000 ④   | 3.500 ④ | 1.250 ④  | 115                        | 380  | 340                            | 380 |
| 1100G     | 5.000      | 15.000             | 3.500   | 1.750                   | 15.500 ④   | 3.500 ④ | 1.250 ④  | 127                        | 400  | 365                            | 400 |

- ① Refer to page 10 for General Information. Unless otherwise specified, Sizes 1020 thru 1090 will be furnished for clearance fit with a setscrew over the keyway and Sizes 1100 and larger will be furnished for interference fit without a setscrew.
- ② Maximum bore with optional square key.
- ③ A special rectangular key is required.
- ④ Maximum bores using standard recommended keys shown in Table 26.
- ⑤ Interference fit is not recommended.
- ⑥ Minimum bore is the smallest bore to which a Rough Stock Bore (RSB) hub can be bored. Depending upon coupling size, RSB hubs may have only a blind centering hole or a through hole that will permit remachining of the hubs to the minimum bores specified.
- ⑦ Maximum bores are reduced for hubs furnished with an interference fit and a setscrew over the keyway. Refer to Regal Rexnord™ Engineering Sheet 427-105 for details.

# Engineering Data



**Table 18 — Taper-Lock® Bushings for Type T Hubs & Shaft Hubs ①**

| Coupling Size | T Hub              |                   |             |        | Shaft Hub          |                   |             |         |                          |
|---------------|--------------------|-------------------|-------------|--------|--------------------|-------------------|-------------|---------|--------------------------|
|               | Taper-Lock Bushing |                   |             | L (mm) | Taper-Lock Bushing |                   |             | B (mm)  | Gear Cplg Rigid Hub Size |
|               | Bushing Number     | Bore Range ② (mm) | Torque (Nm) |        | Bushing Number     | Bore Range ② (mm) | Torque (Nm) |         |                          |
| 1020T         | —                  | —                 | —           | —      | 1108               | 13 to 25          | 52          | 35,1    | —                        |
| 1030T         | 1108               | 13 to 25          | 147         | 41,1   | 1108               | 13 to 25          | 147         | 41,1    | —                        |
| 1040T         | 1108               | 13 to 25          | 147         | 41,1   | 1310               | 13 to 35          | 249         | 53,8    | —                        |
| 1050T         | 1215               | 13 to 32          | 407         | 47,8   | 1615               | 13 to 42          | 435         | 60,4    | —                        |
| 1060T         | 1615               | 13 to 42          | 486         | 53,8   | 2012               | 13 to 50          | 684         | 73,2    | —                        |
| 1070T         | 2012               | 13 to 50          | 808         | 53,8   | 2525               | 20 to 65          | 994         | 79,2    | —                        |
| 1080T         | 2525               | 20 to 65          | 1 277       | 66,5   | 2525               | 20 to 65          | 1 277       | 88,9    | —                        |
| 1090T         | 3030               | 24 to 80          | 2 712       | 79,2   | 3030               | 24 to 80          | 2 712       | 101,6   | —                        |
| 1100T         | 3030               | 24 to 80          | 2 712       | 88,9   | 3535               | 31 to 91          | 5 062       | 90,4    | —                        |
| 1110T         | 3535               | 31 to 91          | 5 062       | 91,9   | 4040               | 37 to 103         | 8 734       | 104,1   | —                        |
| 1120T         | 4040               | 37 to 103         | 8 734       | 111,3  | 4545               | 50 to 114         | 12 428      | 119,4   | —                        |
| 1130T         | 4545               | 50 to 114         | 12 428      | 117,3  | 5050               | 61 to 127         | 14 236      | 134,6   | —                        |
| 1140T         | 5050               | 61 to 127         | 14 236      | 130,0  | 5050               | 61 to 127         | 14 236      | 152,4   | —                        |
| 1150T         | 5050               | 61 to 127         | 14 236      | 182,9  | 6050               | 88 to 152         | 31 862      | 172,7 ③ | 1055                     |
| 1160T         | 5050               | 61 to 127         | 14 236      | 198,1  | 7060               | 100 to 177        | 47 002      | 186,4 ③ | 1060                     |
| 1170T         | 7060               | 100 to 177        | 47 002      | 215,9  | 8065               | 117 to 203        | 51 521      | 220,2 ③ | 1070                     |
| 1180T         | 8065               | 117 to 203        | 51 521      | 238,8  | 8065               | 117 to 203        | 51 521      | 248,9 ③ | 1080                     |
| 1190T         | 8065               | 117 to 203        | 51 521      | 259,1  | 10085              | 178 to 254        | 98 184      | 275,8 ③ | 1090                     |
| 1200T         | 10085              | 178 to 254        | 98 184      | 279,4  | 10085              | 178 to 254        | 98 184      | 304,8 ③ | 1100                     |

① Use straight bored hubs for shock load or reversing load applications or applications that require 1.75 or higher coupling service factors or refer to the Factory for selection, price and delivery of special bushings. Refer to Factory for selection of Taper-Lock bushings for Type T50 and T70 couplings.

② Bushings require shaft keyways per ISO R773.

③ For Sizes 1150T thru 1200T, dimension "B" is to the hub counterbore.

# Engineering Data

**Table 19 — WR<sup>2</sup> Values (kg-m<sup>2</sup>)**

(WR<sup>2</sup> values are based on hubs with no bore; seals, lube plugs and gaskets are not considered.)

| Coupling Size | Coupling Type |        |                          |   |                          |   |                |                                 |  |                                 |  | T70     |
|---------------|---------------|--------|--------------------------|---|--------------------------|---|----------------|---------------------------------|--|---------------------------------|--|---------|
|               | T10           | T20    | T31                      |   | T35                      |   | T10/G82 ①      |                                 |  | T50                             |  |         |
|               |               |        | WR <sup>2</sup> (Min BE) | WR <sup>2</sup> Added per Inch of BE Over Minimum | WR <sup>2</sup> (Min BE) | WR <sup>2</sup> Added per Inch of BE Over Minimum | Rigid Hub Size | WR <sup>2</sup> (Without Shaft) | WR <sup>2</sup> Added per Inch of Length of "SD" Diameter Between Hubs | WR <sup>2</sup> (Each Coupling) | WR <sup>2</sup> Added per Inch of Length of "SD" Diameter Between Hubs |         |
| 1020T         | 0,0014        | 0,0016 | 0,00286                  | 0,00000207  | 0,00214                  | 0,00000207  | —              | —                               | —  | —                               | —  | —       |
| 1030T         | 0,0022        | 0,0023 | 0,00449                  | 0,00000484  | 0,00336                  | 0,00000484  | —              | —                               | —  | 0,00434                         | 0,00000500   | 0,00434 |
| 1040T         | 0,0033        | 0,0035 | 0,00930                  | 0,00000876  | 0,00629                  | 0,00000876  | —              | —                               | —  | —                               | —  | —       |
| 1050T         | 0,0073        | 0,0075 | 0,0181                   | 0,0000161   | 0,0127                   | 0,0000161   | —              | —                               | —  | 0,0181                          | 0,00000161   | 0,0181  |
| 1060T         | 0,012         | 0,012  | 0,0387                   | 0,0000274   | 0,0253                   | 0,0000274   | —              | —                               | —  | —                               | —  | —       |
| 1070T         | 0,019         | 0,018  | 0,0513                   | 0,0000468   | 0,0349                   | 0,0000468   | —              | —                               | —  | 0,0422                          | 0,00000509   | 0,0420  |
| 1080T         | 0,045         | 0,043  | 0,116                    | 0,0000964   | 0,0804                   | 0,0000964   | —              | —                               | —  | 0,101                           | 0,0000124  | 0,101   |
| 1090T         | 0,079         | 0,080  | 0,236                    | 0,000187  | 0,157                    | 0,000187  | —              | —                               | —  | 0,177                           | 0,0000258  | 0,176   |
| 1100T         | 0,178         | 0,178  | 0,514                    | 0,000313  | 0,346                    | 0,000313  | —              | —                               | —  | 0,417                           | 0,0000629  | 0,417   |
| 1110T         | 0,270         | 0,272  | 0,798                    | 0,000523  | 0,534                    | 0,000523  | 1035G          | 0,787                           | 0,000130   | 0,699                           | 0,0000916  | 0,697   |
| 1120T         | 0,514         | 0,472  | 1,56                     | 0,000817  | 1,04                     | 0,000817  | 1040G          | 1,51                            | 0,000199   | 0,801                           | 0,000162   | 0,800   |
| 1130T         | 0,990         | 1,05   | 2,51                     | 0,00176   | 1,75                     | 0,00176   | 1045G          | 2,56                            | 0,000412   | 1,42                            | 0,000266   | 1,42    |
| 1140T         | 1,85          | 1,88   | 4,35                     | 0,00326   | 3,10                     | 0,00326   | 1050G          | 4,78                            | 0,000879   | 2,81                            | 0,000348   | 2,80    |
| 1150T         | 3,49          | 3,29   | 9,00                     | 0,00276   | 6,24                     | 0,00276   | 1055G          | 8,23                            | 0,00130  | 3,04                            | 0,000559   | —       |
| 1160T         | 5,82          | 6,03   | 12,8                     | 0,00454   | 9,90                     | 0,00454   | 1060G          | 12,1                            | 0,00209  | 9,13                            | 0,00130  | —       |
| 1170T         | 10,4          | 10,4   | 24,8                     | 0,00909   | 17,6                     | 0,00909   | 1070G          | 23,7                            | 0,00318  | 15,0                            | 0,00130  | —       |
| 1180T         | 18,3          | —      | 39,7                     | 0,0138  | 29,0                     | 0,0138  | 1080G          | 38,3                            | 0,00466  | 25,8                            | 0,00209  | —       |
| 1190T         | 26,2          | —      | 65,0                     | 0,0214  | 45,6                     | 0,0214  | 1090G          | 62,2                            | 0,00659  | 36,9                            | 0,00318  | —       |
| 1200T         | 43,6          | —      | 93,5                     | 0,0381  | 68,5                     | 0,0381  | 1100G          | 92,7                            | 0,00908  | 59,8                            | 0,00466  | —       |
| 1210T         | 75,6          | —      | —                        | —   | —                        | —   | —              | —                               | —  | —                               | —  | —       |
| 1220T         | 113           | —      | —                        | —   | —                        | —   | —              | —                               | —  | —                               | —  | —       |
| 1230T         | 175           | —      | —                        | —   | —                        | —   | —              | —                               | —  | —                               | —  | —       |
| 1240T         | 339           | —      | —                        | —   | —                        | —   | —              | —                               | —  | —                               | —  | —       |
| 1250T         | 525           | —      | —                        | —   | —                        | —   | —              | —                               | —  | —                               | —  | —       |
| 1260T         | 712           | —      | —                        | —   | —                        | —   | —              | —                               | —  | —                               | —  | —       |

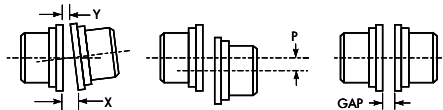
① Values shown are for standard hub lengths.

## Coupling Misalignment

Maximum life and minimum maintenance for the coupling and connected machinery will result if couplings are accurately aligned. Coupling life expectancy between initial alignment and maximum operating limits is a function of load, speed and lubrication. For applications requiring greater misalignment, refer application details to Regal Rexnord.

**Angular misalignment** is expressed in degrees and as the difference between the value of X minus Y, as illustrated.

**Parallel misalignment** is the distance P between shaft center lines as shown.



**Table 20 — Misalignment Capacity (mm) ②**

| Cplg Size | Recommended Installation Maximum   |          |          |                           | Maximum Operating                  |          |                          | Normal Gap ± 10%     |          |
|-----------|------------------------------------|----------|----------|---------------------------|------------------------------------|----------|--------------------------|----------------------|----------|
|           | Parallel Offset – P                |          |          | Angular (1/16°) X Minus Y | Parallel Offset – P ③              |          | Angular (1/4°) X Minus Y | All Types Except T31 | Type T31 |
|           | Types T10, T20, T31, T35, T41, T63 | Type T50 | Type T70 |                           | Types T10, T20, T31, T35, T41, T63 | Type T70 |                          |                      |          |
| 20/1020T  | 0,15                               | —        | —        | 0,08                      | 0,30                               | —        | 0,25                     | 3                    | 5        |
| 30/1030T  | 0,15                               | 0,05     | 0,08     | 0,08                      | 0,30                               | 0,15     | 0,30                     | 3                    | 5        |
| 40/1040T  | 0,15                               | —        | —        | 0,08                      | 0,30                               | —        | 0,33                     | 3                    | 5        |
| 50/1050T  | 0,20                               | 0,05     | 0,10     | 0,10                      | 0,41                               | 0,20     | 0,41                     | 3                    | 5        |
| 60/1060T  | 0,20                               | —        | —        | 0,13                      | 0,41                               | —        | 0,46                     | 3                    | 5        |
| 70/1070T  | 0,20                               | 0,05     | 0,10     | 0,13                      | 0,41                               | 0,20     | 0,51                     | 3                    | 5        |
| 80/1080T  | 0,20                               | 0,05     | 0,10     | 0,15                      | 0,41                               | 0,20     | 0,61                     | 3                    | 5        |
| 90/1090T  | 0,20                               | 0,08     | 0,10     | 0,18                      | 0,41                               | 0,20     | 0,71                     | 3                    | 5        |
| 100/1100T | 0,25                               | 0,08     | 0,13     | 0,20                      | 0,51                               | 0,25     | 0,84                     | 5                    | 6        |
| 110/1110T | 0,25                               | 0,08     | 0,13     | 0,23                      | 0,51                               | 0,25     | 0,91                     | 5                    | 6        |
| 120/1120T | 0,28                               | 0,08     | 0,15     | 0,25                      | 0,56                               | 0,28     | 1,02                     | 6                    | 10       |
| 130/1130T | 0,28                               | 0,10     | 0,15     | 0,30                      | 0,56                               | 0,28     | 1,19                     | 6                    | 10       |
| 140/1140T | 0,28                               | 0,10     | 0,15     | 0,33                      | 0,56                               | 0,28     | 1,35                     | 6                    | 10       |
| 150/1150T | 0,30                               | 0,10     | 0,15     | 0,41                      | 0,61                               | 0,30     | 1,57                     | 6                    | 10       |
| 160/1160T | 0,30                               | 0,13     | 0,15     | 0,46                      | 0,61                               | 0,30     | 1,78                     | 6                    | 10       |
| 170/1170T | 0,30                               | 0,13     | 0,15     | 0,51                      | 0,61                               | 0,30     | 2,01                     | 6                    | 10       |
| 180/1180T | 0,38                               | 0,13     | 0,20     | 0,56                      | 0,76                               | 0,38     | 2,26                     | 6                    | 10       |
| 190/1190T | 0,38                               | 0,15     | 0,20     | 0,61                      | 0,76                               | 0,38     | 2,46                     | 6                    | 10       |
| 200/1200T | 0,38                               | 0,15     | 0,20     | 0,69                      | 0,76                               | 0,38     | 2,72                     | 6                    | 10       |
| 1210T     | 0,46                               | —        | —        | 0,74                      | 0,91                               | —        | 3,00                     | 13                   | —        |
| 1220T     | 0,46                               | —        | —        | 0,81                      | 0,91                               | —        | 3,28                     | 13                   | —        |
| 1230T     | 0,46                               | —        | —        | 0,89                      | 0,97                               | —        | 3,61                     | 13                   | —        |
| 1240T     | 0,48                               | —        | —        | 0,97                      | 0,97                               | —        | 3,91                     | 13                   | —        |
| 1250T     | 0,51                               | —        | —        | 1,07                      | 1,02                               | —        | 4,29                     | 13                   | —        |
| 1260T     | 0,51                               | —        | —        | 1,17                      | 1,02                               | —        | 4,65                     | 13                   | —        |

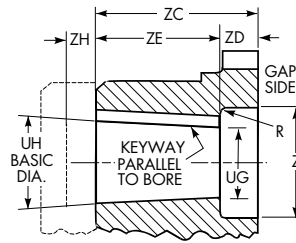
② Values may be combined for an installation or an operating condition.

③ Operating offset limits between Type T50 floating shaft assembly is a function of 1/4° and distance between shaft ends.

# Engineering Data

## Mill Motor and Taper Bore Dimensions — Millimeters

Standardized for AISE mill motors. Also available for use on other tapered shaft applications such as large pumps, compressors and turbines.



Type T Hub or T31/T35 Shaft Hubs Only

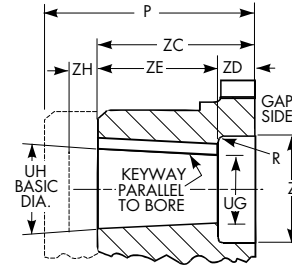
Table 21 — Standard AISE AC & DC Mill Motor Coupling Selections (mm)

| Motor Frame Sizes |                 |                | Cplg Size<br>① | R    | Z      | UG     | UH     | Keyway        | ZC    | ZD   | ZE    | ZH<br>+.XXX<br>-.000 |
|-------------------|-----------------|----------------|----------------|------|--------|--------|--------|---------------|-------|------|-------|----------------------|
| 2<br>602          | 802<br>A, B & C | AC<br>1, 2 & 4 | 1060T          | 3,0  | 66,68  | 36,50  | 44,46  | 12,70 x 6,35  | 100,1 | 23,9 | 76,2  | 0,61                 |
|                   |                 |                | 1070T          | 3,0  | 66,68  |        |        |               |       |      |       |                      |
|                   |                 |                | 1080T          | 7,9  | 88,90  |        |        |               |       |      |       |                      |
|                   |                 |                | 1090T          | 7,9  | 88,90  |        |        |               |       |      |       |                      |
|                   |                 |                | 1100T          | 7,9  | 88,90  |        |        |               |       |      |       |                      |
| 603<br>604        | 803<br>804      | —              | 1070T          | 3,0  | 76,20  | 41,53  | 50,80  | 19,05 x 6,35  | 114,3 | 25,4 | 88,9  | 0,74                 |
|                   |                 |                | 1080T          | 9,7  | 101,60 |        |        |               |       |      |       |                      |
|                   |                 |                | 1090T          | 9,7  | 101,60 |        |        |               |       |      |       |                      |
|                   |                 |                | 1100T          | 9,7  | 101,60 |        |        |               |       |      |       |                      |
| 606               | 806             | AC<br>8 & 12   | 1080T          | 3,0  | 88,90  | 52,91  | 63,50  | 12,70 x 6,35  | 130,0 | 28,4 | 101,6 | 0,74                 |
|                   |                 |                | 1090T          | 9,7  | 114,30 |        |        |               |       |      |       |                      |
|                   |                 |                | 1100T          | 9,7  | 114,30 |        |        |               |       |      |       |                      |
|                   |                 |                | 1110T          | 9,7  | 114,30 |        |        |               |       |      |       |                      |
| 608               | 808             | —              | 1090T          | 3,0  | 111,13 | 64,29  | 76,20  | 19,05 x 6,35  | 146,0 | 31,8 | 114,3 | 0,74                 |
|                   |                 |                | 1100T          | 12,7 | 136,53 |        |        |               |       |      |       |                      |
|                   |                 |                | 1110T          | 12,7 | 136,53 |        |        |               |       |      |       |                      |
|                   |                 |                | 1120T          | 12,7 | 136,53 |        |        |               |       |      |       |                      |
| 610               | 810             | AC18           | 1100T          | 3,0  | 127,00 | 70,64  | 82,55  | 19,05 x 6,35  | 149,4 | 35,1 | 114,3 | 0,86                 |
|                   |                 |                | 1110T          | 12,7 | 152,40 |        |        |               |       |      |       |                      |
|                   |                 |                | 1120T          | 12,7 | 152,40 |        |        |               |       |      |       |                      |
|                   |                 |                | 1130T          | 12,7 | 152,40 |        |        |               |       |      |       |                      |
| 612               | 812             | AC<br>25 & 30  | 1100T          | 3,0  | 133,35 | 78,84  | 92,08  | 19,05 x 6,35  | 165,1 | 38,1 | 127,0 | 0,86                 |
|                   |                 |                | 1110T          | 3,0  | 133,35 |        |        |               |       |      |       |                      |
|                   |                 |                | 1120T          | 3,0  | 158,75 |        |        |               |       |      |       |                      |
|                   |                 |                | 1130T          | 3,0  | 158,75 |        |        |               |       |      |       |                      |
|                   |                 |                | 1140T          | 3,0  | 158,75 |        |        |               |       |      |       |                      |
| 614               | 814             | AC<br>40 & 50  | 1110T          | 3,0  | 149,23 | 94,72  | 107,95 | 25,40 x 9,53  | 168,1 | 41,1 | 127,0 | 0,86                 |
|                   |                 |                | 1120T          | 3,0  | 149,23 |        |        |               |       |      |       |                      |
|                   |                 |                | 1130T          | 12,7 | 171,45 |        |        |               |       |      |       |                      |
|                   |                 |                | 1140T          | 12,7 | 171,45 |        |        |               |       |      |       |                      |
| 616               | 816             | —              | 1120T          | 3,0  | 165,10 | 102,92 | 117,48 | 31,75 x 9,53  | 184,2 | 44,4 | 139,7 | 0,86                 |
|                   |                 |                | 1130T          | 15,7 | 203,20 |        |        |               |       |      |       |                      |
|                   |                 |                | 1140T          | 15,7 | 203,20 |        |        |               |       |      |       |                      |
| 618               | 818             | —              | 1130T          | 3,0  | 177,80 | 111,13 | 127,00 | 31,75 x 12,70 | 185,7 | 33,3 | 152,4 | 0,97                 |
|                   |                 |                | 1140T          | 15,7 | 215,90 |        |        |               |       |      |       |                      |
|                   |                 |                | 1150T          | 15,7 | 215,90 |        |        |               |       |      |       |                      |
| 620               | —               | —              | 1140T          | 6,4  | 222,25 | 131,37 | 147,98 | 38,05 x 19,05 | 204,0 | 44,4 | 159,5 | 0,97                 |
|                   |                 |                | 1150T          | 19,0 | 247,65 |        |        |               |       |      |       |                      |
|                   |                 |                | 1160T          | 19,0 | 247,65 |        |        |               |       |      |       |                      |
| 622               | —               | —              | 1140T          | 6,4  | 222,25 | 139,57 | 154,51 | 38,10 x 19,05 | 204,0 | 60,5 | 143,5 | 0,97                 |
|                   |                 |                | 1150T          | 19,0 | 247,65 |        |        |               |       |      |       |                      |
|                   |                 |                | 1160T          | 19,0 | 247,65 |        |        |               |       |      |       |                      |
|                   |                 |                | 1170T          | 19,0 | 247,65 |        |        |               |       |      |       |                      |
|                   |                 |                | 1170T          | 19,0 | 247,65 |        |        |               |       |      |       |                      |
| 624               | —               | —              | 1140T          | 6,4  | 222,25 | 153,34 | 168,28 | 38,05 x 19,05 | 204,0 | 60,5 | 143,5 | 0,97                 |
|                   |                 |                | 1150T          | 19,0 | 247,65 |        |        |               |       |      |       |                      |
|                   |                 |                | 1160T          | 19,0 | 247,65 |        |        |               |       |      |       |                      |
|                   |                 |                | 1170T          | 19,0 | 247,65 |        |        |               |       |      |       |                      |
|                   |                 |                | 1170T          | 19,0 | 247,65 |        |        |               |       |      |       |                      |
|                   |                 |                | 1180T          | 19,0 | 247,65 |        |        |               |       |      |       |                      |
|                   |                 |                | 1190T          | 19,0 | 247,65 |        |        |               |       |      |       |                      |

① Coupling selections are based on coupling bore capacity and standard available hub lengths. Check coupling rating for all selections, and hub key stress for mill motor selections 620 and larger.

## Engineering Data

**Table 22** specifies the taper and counter bore limitations for the usual requirements. Refer applications for counter bore diameters or depths which exceed any of these limitations, and requirements for hubs longer than those listed, to Regal Rexnord with full particulars for review.



Type T Hub or T31/T35 Shaft Hubs Only ①

**Table 22 — Taper & Counter Bore Limitations (mm) ①**

| Size      | Std Long Hub Length P Max ② | R    | Z Max  | UG Min | UH Max | ZD Max | Key ③   |
|-----------|-----------------------------|------|--------|--------|--------|--------|---------|
| 20/1020T  | 98,6                        | 3,0  | 36,53  | 13     | 28     | 15,7   | 8 x 7   |
| 30/1030T  | 104,6                       | 3,0  | 46,02  | 13     | 35     | 15,7   | 10 x 8  |
| 40/1040T  | 104,6                       | 3,0  | 53,98  | 13     | 45     | 15,7   | 12 x 8  |
| 50/1050T  | 165,1                       | 6,4  | 65,07  | 13     | 50     | 20,6   | 14 x 9  |
| 60/1060T  | 167,4                       | 6,4  | 73,03  | 20     | 56     | 20,6   | 16 x 10 |
| 70/1070T  | 167,4                       | 6,4  | 84,12  | 20     | 67     | 22,4   | 20 x 12 |
| 80/1080T  | 205,5                       | 9,7  | 103,17 | 27     | 80     | 31,8   | 22 x 14 |
| 90/1090T  | 205,5                       | 9,7  | 117,48 | 27     | 95     | 35,1   | 25 x 14 |
| 100/1100T | 204,7                       | 12,7 | 136,53 | 42     | 110    | 42,9   | 28 x 16 |
| 110/1110T | 204,7                       | 12,7 | 152,40 | 42     | 120    | 44,5   | 32 x 18 |
| 120/1120T | 204,0                       | 15,7 | 165,10 | 61     | 140    | 50,8   | 36 x 20 |
| 130/1130T | 204,0                       | 15,7 | 203,20 | 67     | 170    | 52,3   | 40 x 22 |
| 140/1140T | 204,0                       | 19,1 | 234,95 | 67     | 200    | 57,2   | 45 x 25 |
| 150/1150T | 182,9                       | 19,1 | 266,70 | 108    | 215    | 63,5   | 50 x 28 |
| 160/1160T | 198,1                       | 19,1 | 304,80 | 121    | 240    | 69,9   | 56 x 32 |
| 1170T     | 215,9                       | 19,1 | 355,60 | 134    | 280    | 76,2   | 63 x 32 |

**Table 23 — Type T Steelflex® Coupling Puller Bolt Holes (mm)**

| Size  | T-Hub |                | Shaft Hub |                |
|-------|-------|----------------|-----------|----------------|
|       | B.C.  | Tap Size – 6H  | B.C. ④    | Tap Size – 6H  |
| 1020T | 39    | M4 x 0,7 x 10  | 71        | M10 x 1,5 x ⑤  |
| 1030T | 47    | M4 x 0,7 x 10  | 79        | M10 x 1,5 x ⑤  |
| 1040T | 54    | M4 x 0,7 x 10  | 98        | M10 x 1,5 x ⑤  |
| 1050T | 63    | M5 x 0,8 x 10  | 108       | M10 x 1,5 x ⑤  |
| 1060T | 73    | M6 x 1,0 x 10  | 125       | M10 x 1,5 x ⑤  |
| 1070T | 84    | M6 x 1,0 x 10  | 133       | M10 x 1,5 x ⑤  |
| 1080T | 100   | M6 x 1,0 x 10  | 103       | M10 x 1,5 x 13 |
| 1090T | 116   | M8 x 1,25 x 11 | 117       | M10 x 1,5 x 13 |
| 1100T | 133   | M8 x 1,25 x 13 | 146       | M16 x 2,0 x 21 |
| 1110T | 149   | M10 x 1,5 x 16 | 166       | M16 x 2,0 x 21 |
| 1120T | 168   | M10 x 1,5 x 16 | 190       | M20 x 2,5 x 24 |
| 1130T | 197   | M16 x 2,0 x 21 | 208       | M20 x 2,5 x 24 |
| 1140T | 236   | M16 x 2,0 x 21 | 235       | M20 x 2,5 x 24 |
| 1150T | 263   | M16 x 2,0 x 24 | —         | —              |
| 1160T | 298   | M22 x 2,5 x 27 | —         | —              |
| 1170T | 338   | M30 x 3,5 x 32 | —         | —              |
| 1180T | 378   | M30 x 3,5 x 38 | —         | —              |
| 1190T | 413   | M36 x 4,0 x 45 | —         | —              |
| 1200T | 456   | M36 x 4,0 x 45 | —         | —              |
| 1210T | 497   | M36 x 4,0 x 45 | —         | —              |
| 1220T | 541   | M36 x 4,0 x 45 | —         | —              |
| 1230T | 586   | M36 x 4,0 x 45 | —         | —              |
| 1240T | 633   | M36 x 4,0 x 45 | —         | —              |
| 1250T | 690   | M36 x 4,0 x 45 | —         | —              |
| 1260T | 749   | M36 x 4,0 x 45 | —         | —              |

① Refer to Regal Rexnord for other hubs.

② Standard long hub length available for Type T Hubs and flanged hubs; consult Factory for longer lengths.

③ Keyway shown is for maximum bore.

④ Locate puller bolt holes 90° from keyway except as noted by Footnote ⑤.

⑤ Drill and tap thru flange between existing holes. Relation to keyway may vary freely.

⑥ See **page 10** for General Information.

⑦ 1000T series information also applies to 10T series, e.g., 1020=20.

⑧ Also applies to hub Types T61, T63, T50 pilot hub and flanged hub of Types T50 & T70 couplings.

⑨ Interference fit is not recommended.

**Table 24 — Type G Gear Coupling Rigid Hub Puller Bolt Holes (mm)**

| Size ⑥ | B.C. Rigid Hub | Tap Size 6H     |
|--------|----------------|-----------------|
| 1035G  | 182,37         | M12 x 1,75 x 16 |
| 1040G  | 209,80         | M16 x 2,0 x 20  |
| 1045G  | 233,17         | M16 x 2,0 x 20  |
| 1050G  | 259,08         | M20 x 2,5 x 22  |
| 1055G  | 284,48         | M20 x 2,5 x 22  |
| 1060G  | 316,48         | M20 x 2,5 x 22  |
| 1070G  | 368,30         | M24 x 3,0 x 30  |
| 1080G  | 400,05         | M24 x 3,0 x 30  |
| 1090G  | 457,20         | M30 x 3,5 x 38  |
| 1100G  | 471,47         | M36 x 4,0 x 45  |
| 1110G  | 520,70         | M36 x 4,0 x 45  |

**Table 25 — Reduced Max Bores Interference Fit & Setscrew Over Keyway — All Type T Couplings (mm)**

| Size ⑦ | T ⑧    | T41 Hub | Shaft Hub for T31 & T35 |
|--------|--------|---------|-------------------------|
| 1020T  | 25.40  | ⑨       | 31.75                   |
| 1030T  | 31.75  | ⑨       | 38.10                   |
| 1040T  | 34.93  | 31.75   | 50.80                   |
| 1050T  | 44.45  | 38.10   | 53.98                   |
| 1060T  | 47.63  | 44.45   | 69.85                   |
| 1070T  | 57.15  | 53.98   | 73.03                   |
| 1080T  | 69.85  | 60.33   | 82.55                   |
| 1090T  | 82.55  | 73.03   | 95.25                   |
| 1100T  | 88.90  | 82.55   | 114.30                  |
| 1110T  | 101.60 | 95.25   | 127.00                  |
| 1120T  | 114.30 | 107.95  | 152.40                  |
| 1130T  | 139.70 | 127.00  | 165.10                  |
| 1140T  | 165.10 | 149.23  | 190.50                  |
| 1150T  | 177.80 | 165.10  | 222.25                  |
| 1160T  | 203.20 | 190.50  | 247.65                  |
| 1170T  | 228.60 | 225.43  | 279.40                  |
| 1180T  | 247.65 | 247.65  | 298.45                  |
| 1190T  | 273.05 | 273.05  | 330.20                  |
| 1200T  | 298.45 | 298.45  | 342.90                  |

# Engineering Data

**Table 26 — 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) |     |           |     |           |         |           |     |           |     |           |          |
|-------------------------------------|-----|-----------|-----|-----------|---------|-----------|-----|-----------|-----|-----------|----------|
| Shaft Dia                           | Key | Shaft Dia | Key | Shaft Dia | Key     | Shaft Dia | Key | Shaft Dia | Key | Shaft Dia | Key      |
| 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   | —   | —         | —        |

**Table 27 — Standard Bore Fits — Unless Otherwise Specified, Falk® Coupling Hubs Will Be Bored with the Following Bore Fits:**

| Model                     | Coupling Size   | Coupling Type           | Bore Fit     |
|---------------------------|-----------------|-------------------------|--------------|
| Steefflex® Grid Couplings | 1020 - 1090     | T10, T20, T31, T35, T41 | Clearance    |
|                           | 1100 and Larger | All Types               | Interference |
|                           | All Sizes       | T50, T63, T70, T90      | Interference |

**Table 28 — Recommended Bores for Steel Hubs (in)**

| Shaft Dia      | Clearance Fit  |              | Interference Fit |              | 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       | Clearance    | Hub Bore         | Interference |                | Hub Bore         | Interference |
| <b>+ .0000</b> | <b>+ .0010</b> | <b>.0000</b> | <b>+ .0005</b>   | <b>.0000</b> | <b>+ .0000</b> | <b>+ .0015</b> | <b>.0000</b> | <b>+ .0010</b>   | <b>.0000</b> | <b>+ .0000</b> | <b>+ .0015</b> | <b>.0000</b> | <b>+ .0015</b>   | <b>.0010</b> | <b>+ .0000</b> | <b>+ .0015</b>   | <b>.0015</b> |
| <b>- .0005</b> | <b>- .0000</b> | <b>.0015</b> | <b>- .0000</b>   | <b>.0010</b> | <b>- .0010</b> | <b>- .0000</b> | <b>.0025</b> | <b>- .0000</b>   | <b>.0020</b> | <b>- .0010</b> | <b>- .0000</b> | <b>.0025</b> | <b>- .0000</b>   | <b>.0035</b> | <b>- .0010</b> | <b>- .0000</b>   | <b>.0040</b> |
| 0.5000         | 0.5000         |              | 0.4990           |              | 2.2500         | 2.2500         |              | 2.2480           |              | 4.0625         | 4.0625         |              | 4.0590           |              | 6.7500         | 6.7460           |              |
| 0.5625         | 0.5625         |              | 0.5615           |              | 3.3125         | 3.3125         |              | 3.3105           |              | 4.1250         | 4.1250         |              | 4.1215           |              | 7.0000         | 6.9960           |              |
| 0.6250         | 0.6250         |              | 0.6240           |              | 2.3750         | 2.3750         |              | 2.3730           |              | 4.1875         | 4.1875         |              | 4.1840           |              | <b>+ .0000</b> | <b>+ .0020</b>   | <b>.0020</b> |
| 0.6875         | 0.6875         |              | 0.6865           |              | 2.4375         | 2.4375         |              | 2.4355           |              | 4.2500         | 4.2500         |              | 4.2465           |              | <b>- .0010</b> | <b>- .0000</b>   | <b>.0050</b> |
| 0.7500         | 0.7500         |              | 0.7490           |              | 2.5000         | 2.5000         |              | 2.4980           |              | 4.3125         | 4.3125         |              | 4.3090           |              | 7.2500         | 7.2450           |              |
| 0.8125         | 0.8125         |              | 0.8115           |              | 2.5625         | 2.5625         |              | 2.5605           |              | 4.3750         | 4.3750         |              | 4.3715           |              | 7.5000         | 7.4950           |              |
| 0.8750         | 0.8750         |              | 0.8740           |              | 2.6250         | 2.6250         |              | 2.6230           |              | 4.4375         | 4.4375         |              | 4.4340           |              | 7.7500         | 7.7450           |              |
| 0.9375         | 0.9375         |              | 0.9365           |              | 2.6875         | 2.6875         |              | 2.6855           |              | 4.5000         | 4.5000         |              | 4.4965           |              | 8.0000         | 7.9950           |              |
| 1.0000         | 1.0000         |              | 0.9990           |              | 2.7500         | 2.7500         |              | 2.7480           |              | 4.5625         | 4.5625         |              | 4.5590           |              | 8.2500         | 8.2445           | <b>.0025</b> |
| 1.0625         | 1.0625         |              | 1.0615           |              | 2.8125         | 2.8125         |              | 2.8105           |              | 4.6250         | 4.6250         |              | 4.6215           |              | 8.5000         | 8.4945           | <b>.0055</b> |
| 1.1250         | 1.1250         |              | 1.1240           |              | 2.8750         | 2.8750         |              | 2.8730           |              | 4.6875         | 4.6875         |              | 4.6840           |              | 8.7500         | 8.7445           |              |
| 1.1875         | 1.1875         |              | 1.1865           |              | 2.9375         | 2.9375         |              | 2.9355           |              | 4.7500         | 4.7500         |              | 4.7465           |              | 9.0000         | 8.9945           |              |
| 1.2500         | 1.2500         |              | 1.2490           |              | 3.0000         | 3.0000         |              | 2.9980           |              | 4.8125         | 4.8125         |              | 4.8090           |              | 9.2500         | 9.2440           | <b>.0030</b> |
| 1.3125         | 1.3125         |              | 1.3115           |              | <b>+ .0000</b> | <b>+ .0015</b> | <b>.0000</b> | <b>+ .0010</b>   | <b>.0005</b> | 4.8750         | 4.8750         |              | 4.8715           |              | 9.5000         | 9.4940           | <b>.0060</b> |
| 1.3750         | 1.3750         |              | 1.3740           |              | <b>- .0010</b> | <b>- .0000</b> | <b>.0025</b> | <b>- .0000</b>   | <b>.0025</b> | 4.9375         | 4.9375         |              | 4.9340           |              | 9.7500         | 9.7440           |              |
| 1.4375         | 1.4375         |              | 1.4365           |              | 3.0625         | 3.0625         |              | 3.0600           |              | 5.0000         | 5.0000         |              | 4.9965           |              | 10.0000        | 9.9940           |              |
| 1.5000         | 1.5000         |              | 1.4990           |              | 3.1250         | 3.1250         |              | 3.1225           |              | 5.0625         | 5.0625         |              | 5.0585           | <b>.0015</b> | 10.2500        | 10.2435          | <b>.0035</b> |
| <b>+ .0000</b> | <b>+ .0010</b> | <b>.0000</b> | <b>+ .0005</b>   | <b>.0000</b> | 3.1875         | 3.1875         |              | 3.1850           |              | 5.1250         | 5.1250         |              | 5.1210           | <b>.0040</b> | 10.5000        | 10.4935          | <b>.0065</b> |
| <b>- .0010</b> | <b>- .0000</b> | <b>.0020</b> | <b>- .0000</b>   | <b>.0015</b> | 3.2500         | 3.2500         |              | 3.2475           |              | 5.1875         | 5.1875         |              | 5.1835           |              | 10.7500        | 10.7435          |              |
| 1.5625         | 1.5625         |              | 1.5610           |              | 3.3125         | 3.3125         |              | 3.3100           |              | 5.2500         | 5.2500         |              | 5.2460           |              | 11.0000        | 10.9935          |              |
| 1.6250         | 1.6250         |              | 1.6235           |              | 3.3750         | 3.3750         |              | 3.3725           |              | 5.3125         | 5.3125         |              | 5.3085           |              | 11.2500        | 11.2430          | <b>.0040</b> |
| 1.6875         | 1.6875         |              | 1.6860           |              | 3.4375         | 3.4375         |              | 3.4350           |              | 5.3750         | 5.3750         |              | 5.3710           |              | 11.5000        | 11.4930          | <b>.0070</b> |
| 1.7500         | 1.7500         |              | 1.7485           |              | 3.5000         | 3.5000         |              | 3.4975           |              | 5.4375         | 5.4375         |              | 5.4335           |              | 11.7500        | 11.7430          |              |
| 1.8125         | 1.8125         |              | 1.8110           |              | 3.5625         | 3.5625         |              | 3.5600           |              | 5.5000         | 5.5000         |              | 5.4960           |              | 12.0000        | 11.9930          |              |
| 1.8750         | 1.8750         |              | 1.8735           |              | 3.6250         | 3.6250         |              | 3.6225           |              | 5.5625         | 5.5625         |              | 5.5585           |              | 12.5000        | 12.4925          | <b>.0045</b> |
| 1.9375         | 1.9375         |              | 1.9360           |              | 3.6875         | 3.6875         |              | 3.6850           |              | 5.6250         | 5.6250         |              | 5.6210           |              | 13.0000        | 12.9925          | <b>.0075</b> |
| 2.0000         | 2.0000         |              | 1.9985           |              | 3.7500         | 3.7500         |              | 3.7475           |              | 5.6875         | 5.6875         |              | 5.6835           |              | 13.5000        | 13.4920          | <b>.0050</b> |
| <b>+ .0000</b> | <b>+ .0015</b> | <b>.0000</b> | <b>+ .0005</b>   | <b>.0000</b> | 3.8125         | 3.8125         |              | 3.8100           |              | 5.7500         | 5.7500         |              | 5.7460           |              | 14.0000        | 13.9920          | <b>.0080</b> |
| <b>- .0010</b> | <b>- .0000</b> | <b>.0025</b> | <b>- .0000</b>   | <b>.0015</b> | 3.8750         | 3.8750         |              | 3.8725           |              | 5.8125         | 5.8125         |              | 5.8085           |              | 14.5000        | 14.4915          | <b>.0055</b> |
| 2.0625         | 2.0625         |              | 2.0610           |              | 3.9375         | 3.9375         |              | 3.9350           |              | 5.8750         | 5.8750         |              | 5.8710           |              | 15.0000        | 14.9915          | <b>.0085</b> |
| 2.1250         | 2.1250         |              | 2.1235           |              | 4.0000         | 4.0000         |              | 3.9975           |              | 5.9375         | 5.9375         |              | 5.9335           |              | <b>+ .000</b>  | <b>+ .0025</b>   | <b>.0055</b> |
| 2.1875         | 2.1875         |              | 2.1860           |              |                |                |              |                  |              | 6.0000         | 6.0000         |              | 5.9960           |              | <b>- .001</b>  | <b>- .0000</b>   | <b>.0090</b> |
|                |                |              |                  |              |                |                |              |                  |              | 6.2500         | 6.2500         |              | 6.2460           |              | 15.5000        | 15.4910          |              |
|                |                |              |                  |              |                |                |              |                  |              | 6.5000         | 6.5000         |              | 6.4960           |              | 16.0000        | 15.9910          |              |
|                |                |              |                  |              |                |                |              |                  |              |                |                |              |                  |              | 16.5000        | 16.4905          | <b>.0060</b> |
|                |                |              |                  |              |                |                |              |                  |              |                |                |              |                  |              | 17.0000        | 16.9905          | <b>.0095</b> |
|                |                |              |                  |              |                |                |              |                  |              |                |                |              |                  |              | 17.5000        | 17.4895          | <b>.0070</b> |
|                |                |              |                  |              |                |                |              |                  |              |                |                |              |                  |              | 18.0000        | 17.9895          | <b>.0105</b> |
|                |                |              |                  |              |                |                |              |                  |              |                |                |              |                  |              | 18.5000        | 18.4890          | <b>.0075</b> |
|                |                |              |                  |              |                |                |              |                  |              |                |                |              |                  |              | 19.0000        | 18.9890          | <b>.0110</b> |
|                |                |              |                  |              |                |                |              |                  |              |                |                |              |                  |              | 19.5000        | 19.4880          | <b>.0085</b> |
|                |                |              |                  |              |                |                |              |                  |              |                |                |              |                  |              | 20.0000        | 19.9880          | <b>.0120</b> |



# Engineering Data

**Table 29 — Recommended Bore Tolerances Falk® Steel Coupling Hubs  
Millimeters**

| Shaft Diameter<br>(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.

**Table 30 — Recommended Bores for Metric Shafts per ISO/R775-1969 (ANSI/AGMA 9112) (mm) ②**

|                | Shaft Diameter         | Clearance Fit          |               | Transitional Fit       |               | Interference Fit       |               |
|----------------|------------------------|------------------------|---------------|------------------------|---------------|------------------------|---------------|
|                |                        | Hub Bore               | Fit ③         | Hub Bore               | Fit ③         | Hub Bore               | Fit ③         |
|                | <b>j6</b>              | <b>F7</b>              | <b>+ .008</b> | <b>H7</b>              | <b>- .008</b> | <b>M6</b>              | <b>- .023</b> |
| <b>MM</b>      | <b>+ .008 / - .003</b> | <b>+ .016 / + .034</b> | <b>+ .037</b> | <b>+ .000 / + .018</b> | <b>+ .021</b> | <b>- .015 / - .004</b> | <b>- .001</b> |
| <b>12</b>      | 12.008/11.997          | 12.016/12.034          | ↓             | 12.000/12.018          | ↓             | 11.985/11.996          | ↓             |
| <b>14</b>      | 14.008/13.997          | 14.016/14.034          | ↓             | 14.000/14.018          | ↓             | 13.985/13.996          | ↓             |
| <b>16</b>      | 16.008/15.997          | 16.016/16.034          | ↓             | 16.000/16.018          | ↓             | 15.985/15.996          | ↓             |
| <b>18</b>      | 18.008/17.997          | 18.016/18.034          | ↓             | 18.000/18.018          | ↓             | 17.985/17.996          | ↓             |
|                | <b>j6</b>              | <b>F7</b>              | <b>+ .011</b> | <b>H7</b>              | <b>- .009</b> | <b>M6</b>              | <b>- .026</b> |
| <b>MM</b>      | <b>+0.009 / - .004</b> | <b>+ .020 / + .041</b> | <b>+ .045</b> | <b>+ .000 / + .021</b> | <b>+ .025</b> | <b>- .017 / - .004</b> | <b>+ .000</b> |
| <b>19</b>      | 19.009/18.996          | 19.020/19.041          | ↓             | 19.020/19.041          | ↓             | 18.983/18.996          | ↓             |
| <b>20</b>      | 20.009/19.996          | 20.020/20.041          | ↓             | 20.020/20.041          | ↓             | 20.983/20.996          | ↓             |
| <b>22</b>      | 22.009/21.996          | 22.020/22.041          | ↓             | 22.020/22.041          | ↓             | 21.983/21.996          | ↓             |
| <b>24</b>      | 24.009/23.996          | 24.020/24.041          | ↓             | 24.020/24.041          | ↓             | 23.983/23.996          | ↓             |
| <b>25</b>      | 25.009/24.996          | 25.020/25.041          | ↓             | 25.020/25.041          | ↓             | 24.983/24.996          | ↓             |
| <b>28</b>      | 28.009/27.996          | 28.020/28.041          | ↓             | 28.020/28.041          | ↓             | 27.983/27.996          | ↓             |
| <b>30</b>      | 30.009/29.996          | 30.020/30.041          | ↓             | 30.020/30.041          | ↓             | 29.983/29.996          | ↓             |
| <b>&gt;30</b>  | <b>k6</b>              | <b>F7</b>              | <b>+ .007</b> | <b>H7</b>              | <b>- .018</b> | <b>K6</b>              | <b>- .031</b> |
| <b>MM</b>      | <b>+ .018 / + .002</b> | <b>+ .025 / + .050</b> | <b>+ .048</b> | <b>+ .000 / + .025</b> | <b>+ .023</b> | <b>- .013 / + .003</b> | <b>+ .001</b> |
| <b>32</b>      | 32.018/32.002          | 32.025/32.050          | ↓             | 32.000/32.025          | ↓             | 31.987/32.003          | ↓             |
| <b>35</b>      | 35.018/35.002          | 35.025/35.050          | ↓             | 35.000/35.025          | ↓             | 34.987/35.003          | ↓             |
| <b>38</b>      | 38.018/38.002          | 38.025/38.050          | ↓             | 38.000/38.025          | ↓             | 37.987/38.003          | ↓             |
| <b>40</b>      | 40.018/40.002          | 40.025/40.050          | ↓             | 40.000/40.025          | ↓             | 39.987/40.003          | ↓             |
| <b>42</b>      | 42.018/42.002          | 42.025/42.050          | ↓             | 42.000/42.025          | ↓             | 41.987/42.003          | ↓             |
| <b>45</b>      | 45.018/45.002          | 45.025/45.050          | ↓             | 45.000/45.025          | ↓             | 44.987/45.003          | ↓             |
| <b>48</b>      | 48.018/48.002          | 48.025/48.050          | ↓             | 48.000/48.025          | ↓             | 47.987/48.003          | ↓             |
| <b>50</b>      | 50.018/50.002          | 50.025/50.050          | ↓             | 50.000/50.025          | ↓             | 49.987/50.003          | ↓             |
| <b>&gt;50</b>  | <b>m6</b>              | <b>F7</b>              | <b>+ .000</b> | <b>H7</b>              | <b>- .030</b> | <b>K7</b>              | <b>- .051</b> |
| <b>MM</b>      | <b>+ .030 / + .011</b> | <b>+ .030 / + .060</b> | <b>+ .049</b> | <b>+ .000 / + .030</b> | <b>+ .019</b> | <b>- .021 / + .009</b> | <b>- .002</b> |
| <b>55</b>      | 55.030/55.011          | 55.030/55.060          | ↓             | 55.000/55.030          | ↓             | 54.975/55.009          | ↓             |
| <b>56</b>      | 56.030/56.011          | 56.030/56.060          | ↓             | 56.000/56.030          | ↓             | 55.975/56.009          | ↓             |
| <b>60</b>      | 60.030/60.011          | 60.030/60.060          | ↓             | 60.000/60.030          | ↓             | 59.975/60.009          | ↓             |
| <b>63</b>      | 63.030/63.011          | 63.030/63.060          | ↓             | 63.000/63.030          | ↓             | 62.975/63.009          | ↓             |
| <b>65</b>      | 65.030/65.011          | 65.030/65.060          | ↓             | 65.000/65.030          | ↓             | 64.975/65.009          | ↓             |
| <b>70</b>      | 70.030/70.011          | 70.030/70.060          | ↓             | 70.000/70.030          | ↓             | 69.975/70.009          | ↓             |
| <b>71</b>      | 71.030/71.011          | 71.030/71.060          | ↓             | 71.000/71.030          | ↓             | 70.975/71.009          | ↓             |
| <b>75</b>      | 75.030/75.011          | 75.030/75.060          | ↓             | 75.000/75.030          | ↓             | 74.975/75.009          | ↓             |
| <b>80</b>      | 80.030/80.011          | 80.030/80.060          | ↓             | 80.000/80.030          | ↓             | 79.975/80.009          | ↓             |
| <b>&gt;80</b>  | <b>m6</b>              | <b>F7</b>              | <b>+ .001</b> | <b>H7</b>              | <b>- .035</b> | <b>M7</b>              | <b>- .070</b> |
| <b>MM</b>      | <b>+ .035 / + .013</b> | <b>+ .036 / + .071</b> | <b>+ .058</b> | <b>+ .000 / + .035</b> | <b>+ .022</b> | <b>- .035 / + .000</b> | <b>- .013</b> |
| <b>85</b>      | 85.035/85.013          | 85.036/85.071          | ↓             | 85.000/85.035          | ↓             | 84.965/85.000          | ↓             |
| <b>90</b>      | 90.035/90.013          | 90.036/90.071          | ↓             | 90.000/90.035          | ↓             | 89.965/90.000          | ↓             |
| <b>95</b>      | 95.035/95.013          | 95.036/95.071          | ↓             | 95.000/95.035          | ↓             | 94.965/95.000          | ↓             |
| <b>100</b>     | 100.035/100.013        | 100.036/100.071        | ↓             | 100.000/100.035        | ↓             | 99.965/100.000         | ↓             |
| <b>&gt;100</b> | <b>m6</b>              | <b>F7</b>              | <b>+ .003</b> | <b>H7</b>              | <b>- .040</b> | <b>P7</b>              | <b>- .094</b> |
| <b>MM</b>      | <b>+ .035 / + .013</b> | <b>+ .036 / + .071</b> | <b>+ .068</b> | <b>+ .000 / + .035</b> | <b>+ .025</b> | <b>- .059 / - .024</b> | <b>- .037</b> |
| <b>110</b>     | 110.035/110.013        | 110.036/110.071        | ↓             | 110.000/110.035        | ↓             | 109.941/109.976        | ↓             |
| <b>120</b>     | 120.035/120.013        | 120.036/120.071        | ↓             | 120.000/120.035        | ↓             | 119.941/119.976        | ↓             |
| <b>&gt;120</b> | <b>m6</b>              | <b>F7</b>              | <b>+ .003</b> | <b>H7</b>              | <b>- .040</b> | <b>P7</b>              | <b>- .108</b> |
| <b>MM</b>      | <b>+ .040 / + .015</b> | <b>+ .043 / + .083</b> | <b>+ .068</b> | <b>+ .000 / + .040</b> | <b>+ .025</b> | <b>- .068 / - .028</b> | <b>- .043</b> |
| <b>125</b>     | 125.040/125.015        | 125.043/125.083        | ↓             | 125.000/125.040        | ↓             | 124.932/124.972        | ↓             |
| <b>130</b>     | 130.040/130.015        | 130.043/130.083        | ↓             | 130.000/130.040        | ↓             | 129.932/129.972        | ↓             |
| <b>140</b>     | 140.040/140.015        | 140.043/140.083        | ↓             | 140.000/140.040        | ↓             | 139.932/139.972        | ↓             |
| <b>150</b>     | 150.040/150.015        | 150.043/150.083        | ↓             | 150.000/150.040        | ↓             | 149.932/149.972        | ↓             |
| <b>160</b>     | 160.040/160.015        | 160.043/160.083        | ↓             | 160.000/160.040        | ↓             | 159.932/159.972        | ↓             |
| <b>170</b>     | 170.040/170.015        | 170.043/170.083        | ↓             | 170.000/170.040        | ↓             | 169.932/169.972        | ↓             |
| <b>180</b>     | 180.040/180.015        | 180.043/180.083        | ↓             | 180.000/180.040        | ↓             | 179.932/179.972        | ↓             |

② Dimensions shaded are in millimeters.

③ Positive values are clearance, negative values are interference. For reference only.

Continued on page 42.

# Engineering Data

**Table 30 — Recommended Bores for Metric Shafts per ISO/R775–1969 (ANSI/AGMA 9112) ① (Continued)**

|           | Shaft Diameter         | Clearance Fit          |                        | Transitional Fit       |                        | Interference Fit       |                        |                 |                 |   |               |
|-----------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-----------------|-----------------|---|---------------|
|           |                        | Hub Bore               | Fit ②                  | Hub Bore               | Fit ②                  | Hub Bore               | Fit ②                  |                 |                 |   |               |
| >180      | <b>m6</b>              | <b>F7</b>              | <b>+ .004</b>          | <b>H7</b>              | <b>- .046</b>          | <b>P7</b>              | <b>- .125</b>          |                 |                 |   |               |
| <b>MM</b> | <b>+ .046 / + .017</b> | <b>+ .050 / + .096</b> | <b>+ .079</b>          | <b>+ .000 / + .046</b> | <b>+ .029</b>          | <b>- .079 / - .033</b> | <b>- .050</b>          |                 |                 |   |               |
| 190       | 190.046/190.017        | 190.050/190.096        | ↓                      | 190.000/190.046        | ↓                      | 189.921/189.967        | ↓                      |                 |                 |   |               |
| 200       | 200.046/200.017        | 200.050/200.096        |                        | 200.000/200.046        |                        | 199.921/199.967        |                        |                 |                 |   |               |
| >200      | <b>m6</b>              | <b>F7</b>              |                        | <b>H7</b>              |                        | <b>R7</b>              |                        | <b>- .155</b>   |                 |   |               |
| <b>MM</b> | <b>+ .046 / + .017</b> | <b>+ .050 / + .096</b> |                        | <b>+ .000 / + .046</b> |                        | <b>- .109 / - .063</b> |                        | <b>- .080</b>   |                 |   |               |
| 210       | 210.046/210.017        | 210.050/210.096        |                        | 210.000/210.046        |                        | 209.891/209.937        |                        | ↓               |                 |   |               |
| 220       | 220.046/220.017        | 220.050/220.096        |                        | 220.000/220.046        |                        | 219.891/219.937        |                        |                 |                 |   |               |
| 225       | 225.046/225.017        | 225.050/225.096        |                        | 225.000/225.046        |                        | 224.891/224.937        |                        |                 |                 |   |               |
| >225      | <b>m6</b>              | <b>F7</b>              |                        | <b>H7</b>              |                        | <b>R7</b>              |                        |                 | <b>- .159</b>   |   |               |
| <b>MM</b> | <b>+ .046 / + .017</b> | <b>+ .050 / + .096</b> |                        | <b>+ .000 / + .046</b> |                        | <b>- .113 / - .067</b> |                        | <b>- .084</b>   |                 |   |               |
| 230       | 230.046/230.017        | 230.050/230.096        |                        | ↓                      |                        | 230.000/230.046        |                        | ↓               | 229.887/229.933 | ↓ |               |
| 240       | 240.046/240.017        | 240.050/240.096        | 240.000/240.046        |                        | 239.887/239.933        |                        |                        |                 |                 |   |               |
| 250       | 250.046/250.017        | 250.050/250.096        | 250.000/250.046        |                        | 249.887/249.933        |                        |                        |                 |                 |   |               |
| >250      | <b>m6</b>              | <b>F7</b>              | <b>H7</b>              |                        | <b>R7</b>              | <b>- .178</b>          |                        |                 |                 |   |               |
| <b>MM</b> | <b>+ .052 / + .020</b> | <b>+ .056 / + .108</b> | <b>+ .000 / + .052</b> |                        | <b>- .126 / - .074</b> | <b>- .094</b>          |                        |                 |                 |   |               |
| 260       | 260.052/260.020        | 260.056/260.108        | ↓                      |                        | 260.000/260.052        | ↓                      | 259.874/259.926        |                 | ↓               |   |               |
| 270       | 270.052/270.020        | 270.056/270.108        |                        |                        | 270.000/270.052        |                        | 269.874/269.926        |                 |                 |   |               |
| 280       | 280.052/280.020        | 280.056/280.108        |                        |                        | 280.000/280.052        |                        | 279.874/279.926        |                 |                 |   |               |
| >280      | <b>m6</b>              | <b>F7</b>              |                        |                        | <b>H7</b>              |                        | <b>R7</b>              |                 |                 |   | <b>- .182</b> |
| <b>MM</b> | <b>+ .052 / + .020</b> | <b>+ .056 / + .108</b> |                        |                        | <b>+ .000 / + .052</b> |                        | <b>- .130 / - .078</b> |                 |                 |   | <b>- .098</b> |
| 290       | 290.052/290.020        | 290.056/290.108        |                        | ↓                      | 290.000/290.052        |                        | ↓                      | 289.870/289.922 |                 | ↓ |               |
| 300       | 300.052/300.020        | 300.056/300.108        |                        |                        | 300.000/300.052        |                        |                        | 299.870/299.922 |                 |   |               |
| 310       | 310.052/310.020        | 310.056/310.108        |                        |                        | 310.000/310.052        |                        |                        | 309.870/309.922 |                 |   |               |
| 315       | 315.052/315.020        | 315.056/310.108        |                        |                        | 315.000/315.052        |                        |                        | 314.870/314.922 |                 |   |               |
| >315      | <b>m6</b>              | <b>F7</b>              |                        |                        | <b>H7</b>              |                        |                        | <b>R7</b>       |                 |   | <b>- .201</b> |
| <b>MM</b> | <b>+ .057 / + .021</b> | <b>+ .062 / + .119</b> | <b>+ .000 / + .057</b> |                        | <b>- .144 / - .087</b> | <b>- .108</b>          |                        |                 |                 |   |               |
| 320       | 320.057/320.021        | 320.062/320.119        | ↓                      |                        | 320.000/320.057        | ↓                      |                        | 319.856/319.913 | ↓               |   |               |
| 330       | 330.057/330.021        | 330.062/330.119        |                        |                        | 330.000/330.057        |                        |                        | 329.856/329.913 |                 |   |               |
| 340       | 340.057/340.021        | 340.062/340.119        |                        |                        | 340.000/340.057        |                        |                        | 339.856/339.913 |                 |   |               |
| 350       | 350.057/350.021        | 350.062/350.119        |                        |                        | 350.000/350.057        |                        |                        | 349.856/349.913 |                 |   |               |
| 355       | 355.057/355.021        | 355.062/355.119        |                        | 355.000/355.057        | 354.856/354.913        |                        |                        |                 |                 |   |               |
| >355      | <b>m6</b>              | <b>F7</b>              |                        | <b>H7</b>              | <b>R8</b>              |                        | <b>- .260</b>          |                 |                 |   |               |
| <b>MM</b> | <b>+ .057 / + .021</b> | <b>+ .062 / + .119</b> |                        | <b>+ .000 / + .057</b> | <b>- .203 / - .114</b> |                        | <b>- .135</b>          |                 |                 |   |               |
| 360       | 360.057/360.021        | 360.062/360.119        |                        | ↓                      | 360.000/360.057        |                        | ↓                      | 359.797/359.886 |                 | ↓ |               |
| 370       | 370.057/370.021        | 370.062/370.119        |                        |                        | 370.000/370.057        |                        |                        | 369.797/369.886 |                 |   |               |
| 380       | 380.057/380.021        | 380.062/380.119        |                        |                        | 380.000/380.057        |                        |                        | 379.797/379.886 |                 |   |               |
| 390       | 390.057/390.021        | 390.062/390.119        | 390.000/390.057        |                        | 389.797/389.886        |                        |                        |                 |                 |   |               |
| 400       | 400.057/400.021        | 400.062/400.119        | 400.000/400.057        |                        | 399.797/399.886        |                        |                        |                 |                 |   |               |
| >400      | <b>m6</b>              | <b>F7</b>              | <b>H7</b>              |                        | <b>R8</b>              | <b>- .286</b>          |                        |                 |                 |   |               |
| <b>MM</b> | <b>+ .063 / + .023</b> | <b>+ .068 / + .131</b> | <b>+ .000 / + .063</b> |                        | <b>- .223 / - .126</b> | <b>- .149</b>          |                        |                 |                 |   |               |
| 410       | 410.063/410.023        | 410.068/410.131        | ↓                      |                        | 410.000/410.063        | ↓                      |                        | 409.777/409.874 | ↓               |   |               |
| 420       | 420.063/420.023        | 420.068/420.131        |                        |                        | 420.000/420.063        |                        |                        | 419.777/419.874 |                 |   |               |
| 430       | 430.063/430.023        | 430.068/430.131        |                        |                        | 430.000/430.063        |                        |                        | 429.777/429.874 |                 |   |               |
| 440       | 440.063/440.023        | 440.068/440.131        |                        | 440.000/440.063        | 439.777/439.874        |                        |                        |                 |                 |   |               |
| 450       | 450.063/450.023        | 450.068/450.131        |                        | 450.000/450.063        | 449.777/449.874        |                        |                        |                 |                 |   |               |
| >450      | <b>m6</b>              | <b>F7</b>              |                        | <b>H7</b>              | <b>R8</b>              |                        | <b>- .292</b>          |                 |                 |   |               |
| <b>MM</b> | <b>+ .063 / + .023</b> | <b>+ .068 / + .131</b> |                        | <b>+ .000 / + .063</b> | <b>- .229 / - .132</b> |                        | <b>- .155</b>          |                 |                 |   |               |
| 460       | 460.063/460.023        | 460.068/460.131        |                        | ↓                      | 460.000/460.063        |                        | ↓                      | 459.771/459.868 |                 | ↓ |               |
| 470       | 470.063/470.023        | 470.068/470.131        |                        |                        | 470.000/470.063        |                        |                        | 469.771/469.868 |                 |   |               |
| 480       | 480.063/480.023        | 480.068/480.131        |                        |                        | 480.000/480.063        |                        |                        | 479.771/479.868 |                 |   |               |
| 490       | 490.063/490.023        | 490.068/490.131        | 490.000/490.063        |                        | 489.771/489.868        |                        |                        |                 |                 |   |               |
| 500       | 500.063/500.023        | 500.068/500.131        | 500.000/500.063        |                        | 499.771/499.868        |                        |                        |                 |                 |   |               |

① Dimensions shaded are in millimeters.  
 ② Positive values are clearance, negative values are interference. For reference only.





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