



COUPLINGS & UNIVERSAL JOINTS
BY TIMKEN

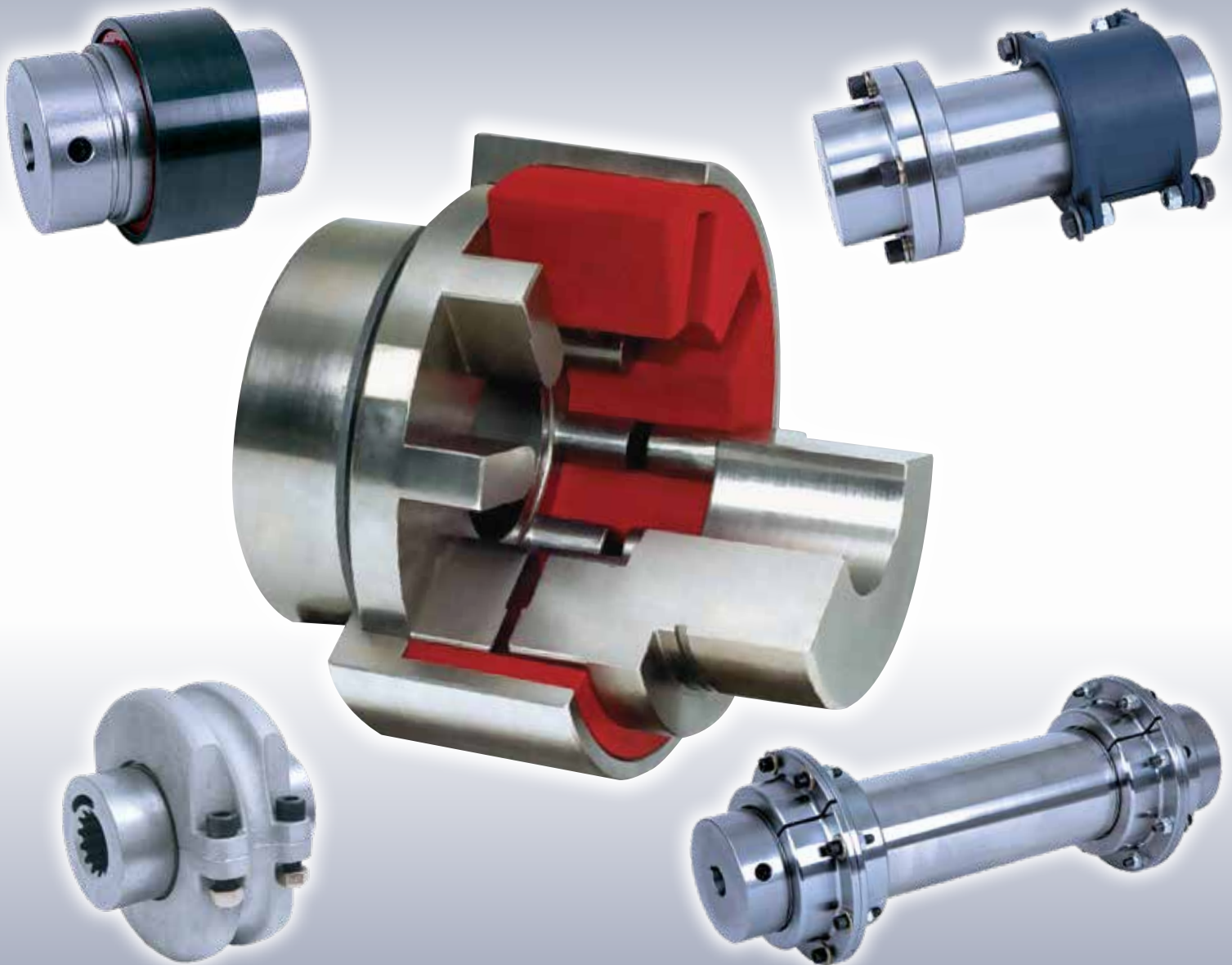
Standard

Single-Ended Spacer

Double-Ended Spacer

Splined Hub

QUICK FLEX[®] Couplings



Better Performance. Less Maintenance.



Over a Century of Invention...

With its longstanding reputation for innovation, service and quality-driven work performance, Lovejoy has developed the expertise to engineer products that address the complex needs of its customers' applications. No matter what the application, Lovejoy has the selection, service and solution for it.

Thomas Lovejoy established this company in 1900 as a manufacturer of tooling and machinery for the railroad and steel industries. The company's pioneer work over the next century in advancing manufacturing technologies has included the introduction of the industry standard Jaw-style coupling in 1927, as a first, incorporated rubber in-compression power transmission concept. Through the years, Lovejoy continuously added to the power transmission elastomeric and metal coupling offering with the manufacturing of universal joints, variable speed pulley products, Uniflex, Torsional, S-Flex, Deltaflex, Gear, Grid, Disc, Curved Jaw, Jaw In-Shear and Motion Control as well as the newest addition of the QUICK FLEX coupling. With the same trust earned in the Power Transmission Industry, Lovejoy has grown to serve similar industries. For over sixty years, Lovejoy has been offering to the hydraulics industry a full line of couplings, reservoirs and accessories, oil coolers, and pump / motor mounts. Lovejoy also moved into additional industries more than thirty five years ago using elastomeric elements, which function as either a vibration control, spring action, tensioning device or bearing alternative.

Global in Reach, Service and Support...

Lovejoy has grown to become an international market leader by expanding its reach into the global marketplace. Lovejoy products are available through a network of distributors, which are located in every major market throughout North America and in over 80 other countries. Lovejoy ships more than 100,000 components each week. These components are exported globally – to Africa, Asia, Australia, Eastern and Western Europe, Central and South America, the Caribbean and the Middle East, as well as throughout North America. World headquarters are in Downers Grove, Illinois, USA with more than 400 employees worldwide, as well as business operations located in the United States, Canada and Germany. In the United States alone, there are more than 30 sales offices and regional warehouses.



Lovejoy World Headquarters in Downers Grove, Illinois USA



Lovejoy continues to innovate and improve their products to optimally serve the many industries it supports.

Our Commitment to Customers...

Lovejoy has a worldwide reputation for building and sustaining long-term customer satisfaction through quality of service, products and design reliability. Certified to ISO 9001 International Standards for Quality Management, Lovejoy manufactures all of its products to the exacting requirements of international standards such as AGMA, ANSI, SAE, DIN, JIS and Imperial. Lovejoy is also an accepted supplier of products that match military specifications.

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QUICK FLEX Couplings

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DISCLAIMER

This catalog is provided solely to give you analysis tools and data to assist you in your product selection. Product performance is affected by many factors beyond the control of Lovejoy. Therefore, you must validate the suitability and feasibility of all product selections for your applications.

Lovejoy products are sold subject to Lovejoy terms and conditions of sale, which include our limited warranty and remedy. You can find these at <http://www.timken.com/en-us/purchase/Pages/TermsandConditionsofSale.aspx>.

Please consult with your Lovejoy engineer for more information and assistance.

Every reasonable effort has been made to ensure the accuracy of the information in this writing, but no liability is accepted for errors, omissions or for any other reason.

This publication contains dimensions, tolerances and load ratings, as well as engineering sections describing fitting practices for shafts and housings, internal clearances, materials and other bearing features. It provides valuable assistance in the initial consideration of the type and characteristics of the bearings that may best suit your particular needs.

ISO and ANSI/ABMA, as used in this publication, refer to the International Organization for Standardization and the American National Standards Institute/American Bearing Manufacturers Association.

Updates are made periodically to this catalog. Visit www.lovejoy-inc.com for the most recent version of the QUICK FLEX® Coupling Catalog.

WARNING

Failure to observe the following warnings could create a risk of death or serious injury.

Proper maintenance and handling practices are critical. Failure to follow selection recommendations and installation instructions and to maintain proper lubrication can result in equipment failure.

When your equipment operates in harsh environments, you need products you can count on, like QUICK FLEX® elastomeric couplings. They are durable enough to face extreme challenges, yet need minimal maintenance. They are also easy to install and require no lubrication. With a lifespan that may last as long as your equipment, overall cost of ownership remains low.

Pioneering Design

QUICK FLEX couplings' innovative design features two steel hubs, a polyurethane insert and a cover.

Our styles include:

- Standard couplings.
- Single-ended spacer couplings.
- Double-ended spacer couplings.

Whatever your application, you'll find a coupling to suit your needs:

- Twelve families with bore ranges from 10 mm (0.37 in) to 285 mm (11.25 in).
- Continuous torque handling from 0.043 kNm (377 in-lbs) to 188.8 kNm (1,670,826 in-lbs).
- Able to handle temperatures from -51° C to 176° C (-60° F to 350° F).

Product Advantages

More Uptime

Your hubs and shafts may remain intact when you use QUICK FLEX couplings. Our design helps eliminate mechanical interference between coupling hubs that can damage your equipment. As needed, you can replace the urethane insert quickly and easily without removing the hubs.

Durability

There's no metal-to-metal contact between opposing hubs with QUICK FLEX couplings, so you'll save money not replacing hubs or other metal components since they do not wear. For harsh environments, including wash-downs for food processing, we offer a stainless-steel version of each coupling.

Reduced Inventory

The versatility of the QUICK FLEX design promotes component standardization across your plant, reducing the need to stock multiple coupling styles and configurations.

Product Features

- Solid and split covers handle high speeds and torque.
- Design dampens torsional vibration and shock.
- Accepts shaft misalignment up to 2 degrees.
- Eliminates the need to move or disassemble the driving or driven equipment to replace the coupling insert.
- Versatility of design makes it a great tool for plant standardization.
- Accepts shaft sizes from 10 mm (0.37 in) to 285 mm (11.25 in).
- Peak handling torque from 0.085 kNm (754 in-lbs) to 377.5 kNm (3,341,562 in-lbs).
- Standard and double-ended spacer couplings available for shaft separations of 25.4 mm to 3,048 mm (1 in to 120 in), for increased application acceptance.
- Four bore options available to meet customers' needs; 1) Bored, keyed and set screws style – clearance and interference fit; 2) Bushing style; 3) Splined style; and 4) Mill-motor style.
- Stainless-steel versions available for corrosive environments.
- Four insert choices for varying torque needs and temperature ranges, up to 177° C (350° F).
- Replaces many common gear, grid and elastomeric couplings used in high- and low-torque applications to reduce plant complexity.
- Inherently balanced from precision machining for high-speed applications.
- Split cover options help resist axial separating force under high torque.

for the Long Haul



| QUICK FLEX Comparison | QUICK FLEX Coupling | Jaw Coupling | Jaw In-Shear Coupling | Grid Coupling | Gear Coupling | Chain Coupling | Tire Coupling | Disc Coupling |
|-----------------------------------|---------------------|--------------|-----------------------|---------------|---------------|----------------|---------------|---------------|
| Radially removable insert/element | • | | • | • | N/A | N/A | • | • |
| High torque capability | • | | | • | • | | | • |
| High-speed capacity | • | • | | | • | | | • |
| Torque transmission in shear | • | | • | • | N/A | N/A | • | • |
| Non-Lubricated | • | • | • | | | | • | • |
| No hub teeth wear | • | • | • | | | | N/A | • |
| Shock load capabilities | • | • | • | • | | | • | |
| Angular misalignment | Medium | Low | Medium | Low | High | Low | Medium | High |

Product Offering

QUICK FLEX couplings stand up to harsh environments and operate efficiently in applications including:

- Motor to gearbox (low torque/high speed).
- Gearbox to driven equipment (high torque/low speed).
- Motors to pumps.
- Any drive shaft to a driven shaft.

Quality Solutions

As a leading premium bearing and coupling manufacturer, we understand the critical quality link between materials and product performance.

We also strictly adhere to the Quality Management System in every plant worldwide, so each product meets the same high quality standards – no matter where in the world it is manufactured.

Dependable Service

Every QUICK FLEX elastomeric coupling is backed by the service of our industry-leading experts, who are ready to assist you with product design, application knowledge and engineering support – anything you need to help improve uptime and maximize equipment performance.

Updates are made periodically to this catalog. Visit www.lovejoy-inc.com for the most recent version of the QUICK FLEX Coupling Catalog.



Standard Couplings

Shown with high-speed cover



Single-Ended Spacer Couplings

Shown with low-speed split cover



Double-Ended Spacer Couplings

Shown with high-speed split cover



Splined Hub Couplings

Shown with high-performance split cover

QUICK FLEX Standard Bore Sizes - Inch

The following tables list, by bore size in inch dimensions, couplings that are commonly stocked.

Standard Bore Sizes Inch – Clearance Fit

| Coupling Series | Pilot Bore | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1 1/8 | 1 3/16 | 1 1/4 | 1 3/8 | 1 7/16 | 1 1/2 | 1 5/8 | 1 3/4 |
|-----------------|------------|-----|-----|-----|-----|----|-------|--------|-------|-------|--------|-------|-------|-------|
| | | in | in | in | in | in | in | in | in | in | in | in | in | in |
| QF5 | x | x | x | x | x | x | x | x | x | | | | | |
| QF15 | x | | x | x | x | x | x | x | x | x | x | x | x | |
| QF25 | x | | | x | x | x | x | x | x | x | x | x | x | x |
| QF50 | x | | | | x | x | x | x | x | x | x | x | x | x |
| QF100 | x | | | | | | | | | | | x | x | x |
| QF175 | x | | | | | | | | | | | | | |
| QF250 | x | | | | | | | | | | | | | |
| QF500 | x | | | | | | | | | | | | | |
| QF1000 | x | | | | | | | | | | | | | |
| QF1890 | x | | | | | | | | | | | | | |
| QF3150 | x | | | | | | | | | | | | | |
| QF10260 | x | | | | | | | | | | | | | |

Standard Bore Sizes Inch – Clearance Fit , Continued

| Coupling Series | Pilot Bore | 1 7/8 | 1 15/16 | 2 | 2 1/8 | 2 3/16 | 2 1/4 | 2 3/8 | 2 7/16 | 2 1/2 | 2 5/8 | 2 3/4 | 2 7/8 | 2 15/16 | 3 |
|-----------------|------------|-------|---------|----|-------|--------|-------|-------|--------|-------|-------|-------|-------|---------|----|
| | | in | in | in | in | in | in | in | in | in | in | in | in | in | in |
| QF5 | x | | | | | | | | | | | | | | |
| QF15 | x | | | | | | | | | | | | | | |
| QF25 | x | x | x | x | x | | | | | | | | | | |
| QF50 | x | x | x | x | x | x | x | x | | | | | | | |
| QF100 | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| QF175 | x | | | | | | | | | | | | | | |
| QF250 | x | | | | | | | | | | | | | | |
| QF500 | x | | | | | | | | | | | | | | |
| QF1000 | x | | | | | | | | | | | | | | |
| QF1890 | x | | | | | | | | | | | | | | |
| QF3150 | x | | | | | | | | | | | | | | |
| QF10260 | x | | | | | | | | | | | | | | |

Note: ■ Inch bore and keyway tolerances conform to ANSI/AGMA 9002.

QUICK FLEX Standard Bore Sizes - Metric

The following tables list, by bore size in metric dimensions, couplings that are commonly stocked.

Standard Bore Sizes Metric – Clearance Fit

| Coupling Series | Pilot Bore | 11 | 12 | 14 | 15 | 16 | 18 | 19 | 20 | 22 | 24 | 25 | 28 | 30 |
|-----------------|------------|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm |
| QF5 | x | x | x | x | x | x | x | x | x | x | x | x | | |
| QF15 | x | | | | | | | x | x | x | x | x | x | x |
| QF25 | x | | | | | | | x | x | x | x | x | x | x |
| QF50 | x | | | | | | | | | | | | | x |
| QF100 | x | | | | | | | | | | | x | x | x |
| QF175 | x | | | | | | | | | | | | | |
| QF250 | x | | | | | | | | | | | | | |
| QF500 | x | | | | | | | | | | | | | |
| QF1000 | x | | | | | | | | | | | | | |
| QF1890 | x | | | | | | | | | | | | | |
| QF3150 | x | | | | | | | | | | | | | |
| QF10260 | x | | | | | | | | | | | | | |

Standard Bore Sizes Metric – Clearance Fit , Continued

| Coupling Series | Pilot Bore | 32 | 34 | 35 | 38 | 40 | 42 | 45 | 48 | 50 | 55 | 60 | 65 | 70 | 75 |
|-----------------|------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm |
| QF5 | x | | | | | | | | | | | | | | |
| QF15 | x | x | x | x | x | x | | | | | | | | | |
| QF25 | x | x | x | x | x | x | x | x | x | x | | | | | |
| QF50 | x | x | x | x | x | x | x | x | x | x | x | x | | | |
| QF100 | x | | | | | | | | | x | x | x | x | x | x |
| QF175 | x | | | | | | | | | | | | | | |
| QF250 | x | | | | | | | | | | | | | | |
| QF500 | x | | | | | | | | | | | | | | |
| QF1000 | x | | | | | | | | | | | | | | |
| QF1890 | x | | | | | | | | | | | | | | |
| QF3150 | x | | | | | | | | | | | | | | |
| QF10260 | x | | | | | | | | | | | | | | |

Note: ■ Standard metric clearance bore is H7 Tolerance per ISO 266. Keyway conforms to ANSI/AGMA 9112 normal keyway width tolerance.

QUICK FLEX Bore Tolerances and Keyway Sizes

Table 3. Bore Tolerances and Keyway Sizes (Imperial)

| Nominal Shaft Diameter Range | | Nominal Key Size | | Nominal Keyway Size | | Bore Tolerance | | | | Set Screw |
|------------------------------|---------------------|------------------|-------|---------------------|-------|----------------|----|------------------|--------|-----------|
| Over | Up to and Including | Width | Depth | Width | Depth | Clearance Fit | | Interference Fit | | |
| in | in | in | in | in | in | in | in | in | in | |
| 5/16 | 7/16 | 3/32 | 3/32 | 3/32 | 3/64 | +0.010 | 0 | -0.0005 | -0.010 | 2 @ 120° |
| 7/16 | 9/16 | 1/8 | 1/8 | 1/8 | 1/16 | +0.010 | 0 | -0.0005 | -0.010 | |
| 9/16 | 7/8 | 3/16 | 3/16 | 3/16 | 3/32 | +0.010 | 0 | -0.0005 | -0.010 | |
| 7/8 | 1-1/4 | 1/4 | 1/4 | 1/4 | 1/8 | +0.010 | 0 | -0.0005 | -0.010 | |
| 1-1/4 | 1-3/8 | 5/16 | 5/16 | 5/16 | 5/32 | +0.010 | 0 | -0.0005 | -0.010 | |
| 1-3/8 | 1-1/2 | 3/8 | 3/8 | 3/8 | 3/16 | +0.010 | 0 | -0.0005 | -0.010 | |
| 1-1/2 | 1-3/4 | 3/8 | 3/8 | 3/8 | 3/16 | +0.010 | 0 | -0.010 | -0.020 | |
| 1-3/4 | 2 | 1/2 | 1/2 | 1/2 | 1/4 | +0.010 | 0 | -0.010 | -0.020 | |
| 2 | 2-1/4 | 1/2 | 1/2 | 1/2 | 1/4 | +0.015 | 0 | -0.010 | -0.020 | |
| 2-1/4 | 2-3/4 | 5/8 | 5/8 | 5/8 | 5/16 | +0.015 | 0 | -0.010 | -0.020 | |
| 2-3/4 | 3 | 3/4 | 3/4 | 3/4 | 3/8 | +0.015 | 0 | -0.010 | -0.020 | |
| 3 | 3-1/4 | 3/4 | 3/4 | 3/4 | 3/8 | +0.015 | 0 | -0.015 | -0.030 | |
| 3-1/4 | 3-3/4 | 7/8 | 7/8 | 7/8 | 7/16 | +0.015 | 0 | -0.015 | -0.030 | |
| 3-3/4 | 4 | 1 | 1 | 1 | 1/2 | +0.015 | 0 | -0.015 | -0.030 | |
| 4 | 4-1/2 | 1 | 1 | 1 | 1/2 | +0.015 | 0 | -0.020 | -0.035 | |
| 4-1/2 | 5 | 1-1/4 | 1-1/4 | 1-1/4 | 5/8 | +0.015 | 0 | -0.020 | -0.035 | |
| 5 | 5-1/2 | 1-1/4 | 1-1/4 | 1-1/4 | 5/8 | +0.015 | 0 | -0.025 | -0.040 | |
| 5-1/2 | 6 | 1-1/2 | 1-1/2 | 1-1/2 | 3/4 | +0.015 | 0 | -0.025 | -0.040 | |
| 6 | 6-1/2 | 1-1/2 | 1-1/2 | 1-1/2 | 3/4 | +0.015 | 0 | -0.025 | -0.040 | |
| 6-1/2 | 7 | 1-3/4 | 1-1/2 | 1-3/4 | 3/4 | | | -0.025 | -0.040 | |
| 7 | 7-1/2 | 1-3/4 | 1-1/2 | 1-3/4 | 3/4 | | | -0.030 | -0.050 | |
| 7-1/2 | 8 | 2 | 1-1/2 | 2 | 3/4 | | | -0.030 | -0.050 | |
| 8 | 9 | 2 | 1-1/2 | 2 | 3/4 | | | -0.035 | -0.055 | |
| 9 | 10 | 2-1/2 | 1-3/4 | 2-1/2 | 7/8 | | | -0.040 | -0.060 | |
| 10 | 11 | 2-1/2 | 1-3/4 | 2-1/2 | 7/8 | | | -0.045 | -0.065 | |
| 11 | 12 | 3 | 2 | 3 | 1 | | | -0.050 | -0.070 | |

Note: ■ Inch bore and keyway tolerances conform to ANSI/AGMA 9002.

Table 4. Bore Tolerances and Keyway Sizes (Metric)

| Nominal Shaft Diameter Range | | Nominal Key Size | | Nominal Keyway Size | | Bore Tolerance | | | | Set Screw Size mm |
|------------------------------|---------------------|------------------|-------|---------------------|-------|--------------------|--------|-----------------------|--------|-------------------|
| Over | Up to and Including | Width | Depth | Width | Depth | Clearance Fit (H7) | | Interference Fit (P7) | | |
| mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | |
| 6 | 8 | 2 | 2 | 2 | 1 | +0.015 | -0.000 | -0.009 | -0.024 | 2 @ 120° |
| 8 | 10 | 3 | 3 | 3 | 1.4 | +0.015 | -0.000 | -0.009 | -0.024 | |
| 10 | 12 | 4 | 4 | 4 | 1.8 | +0.018 | -0.000 | -0.011 | -0.029 | |
| 12 | 17 | 5 | 5 | 5 | 2.3 | +0.018 | -0.000 | -0.011 | -0.029 | |
| 17 | 18 | 6 | 6 | 6 | 2.8 | +0.018 | -0.000 | -0.011 | -0.029 | |
| 18 | 22 | 6 | 6 | 6 | 2.8 | +0.021 | -0.000 | -0.014 | -0.035 | |
| 22 | 30 | 8 | 7 | 8 | 3.3 | +0.021 | -0.000 | -0.014 | -0.035 | |
| 30 | 38 | 10 | 8 | 10 | 3.3 | +0.025 | -0.000 | -0.017 | -0.042 | |
| 38 | 44 | 12 | 8 | 12 | 3.3 | +0.025 | -0.000 | -0.017 | -0.042 | |
| 44 | 50 | 14 | 9 | 14 | 3.8 | +0.025 | -0.000 | -0.017 | -0.042 | |
| 50 | 58 | 16 | 10 | 16 | 4.3 | +0.030 | -0.000 | -0.021 | -0.051 | |
| 58 | 65 | 18 | 11 | 18 | 4.4 | +0.030 | -0.000 | -0.021 | -0.051 | |
| 65 | 75 | 20 | 12 | 20 | 4.9 | +0.030 | -0.000 | -0.021 | -0.051 | |
| 75 | 80 | 22 | 14 | 22 | 5.4 | +0.030 | -0.000 | -0.021 | -0.051 | |
| 80 | 85 | 22 | 14 | 22 | 5.4 | +0.035 | -0.000 | -0.024 | -0.059 | |
| 85 | 95 | 25 | 14 | 25 | 5.4 | +0.035 | -0.000 | -0.024 | -0.059 | |
| 95 | 110 | 28 | 16 | 28 | 6.4 | +0.035 | -0.000 | -0.024 | -0.059 | |
| 110 | 120 | 32 | 18 | 32 | 7.4 | +0.035 | -0.000 | -0.024 | -0.059 | |
| 120 | 130 | 32 | 18 | 32 | 7.4 | +0.040 | -0.000 | -0.028 | -0.068 | |
| 130 | 150 | 36 | 20 | 36 | 8.4 | +0.040 | -0.000 | -0.028 | -0.068 | |
| 150 | 170 | 40 | 22 | 40 | 9.4 | +0.040 | -0.000 | -0.028 | -0.068 | |
| 170 | 180 | 45 | 25 | 45 | 10.4 | +0.040 | -0.000 | -0.028 | -0.068 | |
| 180 | 200 | 45 | 25 | 45 | 10.4 | +0.046 | -0.000 | -0.033 | -0.079 | |

Note: ■ Metric bore tolerances conform to ISO 286-2 H7 for clearance fit and P7 for interference fit. Metric keyway tolerances conform to ANSI/AGMA 9112 Normal keyway width tolerance.

Torque Calculation – Selecting QUICK FLEX Couplings

QUICK FLEX Coupling Selection Using Inch-Pound Torque Ratings

To select the correct QUICK FLEX coupling for your application, use the formulas below, the torque ratings on pages 11-13 and the maximum bore sizes and speed ratings on pages 35-41. If you need further assistance, please contact your Lovejoy Application engineer or visit www.lovejoy-inc.com.

Design Torque (in-lbs) =
Actual torque (in-lbs) x service factor
(See pages 15-17.)

$$\text{Actual Torque (in-lbs)} = \frac{63025 \times \text{HP}}{\text{RPM}}$$

where:

HP = Drive horsepower

RPM = Drive shaft revolutions per minute

QUICK FLEX Coupling Selection Using Newton Meter Torque Ratings

To select the correct QUICK FLEX coupling for your application, use the formulas below, the torque ratings on page 11-13 and maximum bore sizes and speed ratings on pages 35-41 to determine which QUICK FLEX coupling meets the design torque, maximum shaft size and speed rating of your application. If you need further assistance, please contact your Lovejoy Application engineer or visit www.lovejoy-inc.com.

Design Torque (Nm) =
Actual torque (Nm) x service factor
(See pages 15-17.)

$$\text{Actual Torque (Nm)} = \frac{9550 \times \text{kW}}{\text{RPM}}$$

where:

kW = Drive kilowatts

RPM = Drive shaft revolutions per minute

Helpful Conversion Formulas

(Nm ↔ in-lbs) → 1 Nm = 8.85 in-lbs

(kW ↔ HP) → 1 kW = 1.341 HP

Torque Ratings and Misalignment Tolerances

Table 5. QUICK FLEX Coupling Torque Ratings with High-Speed Cover (Imperial)

| Coupling Series | Insert Part No. | Insert Color | Continuous Torque in-lbs | HP Ratings @ Various RPM (Service Factor = 1) | | | | | | | | | |
|-----------------|-----------------|--------------|--------------------------|---|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | | 50 | 100 | 300 | 600 | 900 | 1200 | 1750 | 2400 | 3600 | 5000 |
| QF5 | QF5INSERT | Red | 377 | 0.3 | 0.6 | 1.8 | 3.6 | 5.4 | 7.2 | 10.5 | 14.4 | 21.5 | 29.9 |
| | QF5HINSERT | White | 819 | 0.6 | 1.3 | 3.9 | 7.8 | 11.7 | 15.6 | 22.7 | 31.2 | 46.8 | 65.0 |
| | QF5BINSERT | Blue | 819 | 0.6 | 1.3 | 3.9 | 7.8 | 11.7 | 15.6 | 22.7 | 31.2 | 46.8 | 65.0 |
| QF15 | QF15INSERT | Red | 1059 | 0.8 | 1.7 | 5.0 | 10.1 | 15.1 | 20.2 | 29.4 | 40.3 | 60.5 | 84.0 |
| | QF15HINSERT | White | 2075 | 1.6 | 3.3 | 9.9 | 19.8 | 29.6 | 39.5 | 57.6 | 79.0 | 118.5 | 164.6 |
| | QF15BINSERT | Blue | 2075 | 1.6 | 3.3 | 9.9 | 19.8 | 29.6 | 39.5 | 57.6 | 79.0 | 118.5 | 164.6 |
| QF25 | QF25INSERT | Red | 3426 | 2.7 | 5.4 | 16.3 | 32.6 | 48.9 | 65.2 | 95.1 | 130.5 | 195.7 | 271.8 |
| | QF25HINSERT | White | 6461 | 5.1 | 10.3 | 30.8 | 61.5 | 92.3 | 123.0 | 179.4 | 246.0 | 369.1 | 512.6 |
| | QF25BINSERT | Blue | 6461 | 5.1 | 10.3 | 30.8 | 61.5 | 92.3 | 123.0 | 179.4 | 246.0 | 369.1 | 512.6 |
| QF50 | QF50INSERT | Red | 7066 | 5.6 | 11.2 | 33.6 | 67.3 | 100.9 | 134.5 | 196.2 | 269.1 | 403.6 | 560.6 |
| | QF50HINSERT | White | 14002 | 11.1 | 22.2 | 66.6 | 133.3 | 199.9 | 266.6 | 388.8 | 533.2 | 799.8 | 1110.8 |
| | QF50BINSERT | Blue | 14002 | 11.1 | 22.2 | 66.6 | 133.3 | 199.9 | 266.6 | 388.8 | 533.2 | 799.8 | 1110.8 |
| QF100 | QF100INSERT | Red | 14178 | 11.2 | 22.5 | 67.5 | 135.0 | 202.5 | 270.0 | 393.7 | 539.9 | 809.9 | 1124.8 |
| | QF100HINSERT | White | 28115 | 22.3 | 44.6 | 133.8 | 267.7 | 401.5 | 535.3 | 780.7 | 1070.6 | 1605.9 | 2230.5 |
| | QF100BINSERT | Blue | 28115 | 22.3 | 44.6 | 133.8 | 267.7 | 401.5 | 535.3 | 780.7 | 1070.6 | 1605.9 | 2230.5 |
| QF175 | QF175INSERT | Red | 24602 | 19.5 | 39.0 | 117.1 | 234.2 | 351.3 | 468.4 | 683.1 | 936.8 | 1405.3 | 1951.8 |
| | QF175HINSERT | White | 47123 | 37.4 | 74.8 | 224.3 | 448.6 | 672.9 | 897.2 | 1308.5 | 1794.4 | 2691.7 | 3738.4 |
| | QF175BINSERT | Blue | 47123 | 37.4 | 74.8 | 224.3 | 448.6 | 672.9 | 897.2 | 1308.5 | 1794.4 | 2691.7 | 3738.4 |
| QF250 | QF250INSERT | Red | 31091 | 24.7 | 49.3 | 148.0 | 296.0 | 444.0 | 592.0 | 863.3 | 1183.9 | 1775.9 | 2466.6 |
| | QF250HINSERT | White | 61726 | 49.0 | 97.9 | 293.8 | 587.6 | 881.5 | 1175.3 | 1713.9 | 2350.5 | 3525.8 | 4896.9 |
| | QF250BINSERT | Blue | 61726 | 49.0 | 97.9 | 293.8 | 587.6 | 881.5 | 1175.3 | 1713.9 | 2350.5 | 3525.8 | 4896.9 |
| QF500 | QF500INSERT | Red | 60091 | 47.7 | 95.3 | 286.0 | 572.1 | 858.1 | 1144.1 | 1668.5 | 2288.3 | 3432.4 | 4767.2 |
| | QF500HINSERT | White | 115497 | 91.6 | 183.3 | 549.8 | 1099.5 | 1649.3 | 2199.1 | 3207.0 | 4398.1 | 6597.2 | 9162.8 |
| | QF500BINSERT | Blue | 115497 | 91.6 | 183.3 | 549.8 | 1099.5 | 1649.3 | 2199.1 | 3207.0 | 4398.1 | 6597.2 | 9162.8 |
| QF1000 | QF1000INSERT | Red | 84966 | 67.4 | 134.8 | 404.4 | 808.9 | 1213.3 | 1617.8 | 2359.2 | 3235.5 | - | - |
| | QF1000HINSERT | White | 162997 | 129.3 | 258.6 | 775.9 | 1551.7 | 2327.6 | 3103.5 | 4525.9 | 6206.9 | - | - |
| | QF1000BINSERT | Blue | 162997 | 129.3 | 258.6 | 775.9 | 1551.7 | 2327.6 | 3103.5 | 4525.9 | 6206.9 | - | - |
| QF1890 | QF1890INSERT | Red | 95061 | 75.4 | 150.8 | 452.5 | 905.0 | 1357.5 | 1810.0 | 2639.5 | 3620.0 | - | - |
| | QF1890HINSERT | White | 180639 | 143.3 | 286.6 | 859.8 | 1719.7 | 2579.5 | 3439.4 | 5015.8 | 6878.8 | - | - |
| | QF1890BINSERT | Blue | 180639 | 143.3 | 286.6 | 859.8 | 1719.7 | 2579.5 | 3439.4 | 5015.8 | 6878.8 | - | - |
| QF3150 | QF3150INSERT | Red | 105135 | 83.4 | 166.8 | 500.4 | 1000.9 | 1501.3 | 2001.8 | 2919.3 | - | - | - |
| | QF3150HINSERT | White | 198252 | 157.3 | 314.6 | 943.7 | 1887.4 | 2831.0 | 3774.7 | 5504.8 | - | - | - |
| | QF3150BINSERT | Blue | 198252 | 157.3 | 314.6 | 943.7 | 1887.4 | 2831.0 | 3774.7 | 5504.8 | - | - | - |
| QF10260 | QF10260INSERT | Red | 210173 | 166.7 | 333.5 | 1000.4 | 2000.9 | 3001.3 | 4001.7 | - | - | - | - |
| | QF10260HINSERT | White | 395913 | 314.1 | 628.2 | 1884.6 | 3769.1 | 5653.7 | 7538.2 | - | - | - | - |
| | QF10260BINSERT | Blue | 395913 | 314.1 | 628.2 | 1884.6 | 3769.1 | 5653.7 | 7538.2 | - | - | - | - |

Note: ■ QUICK FLEX flexible couplings can sustain momentary peak torque loads up to 200 percent of their continuous torque rating.

Torque Ratings and Misalignment Tolerances

Table 6. QUICK FLEX Coupling Torque Ratings with High-Speed Cover (Metric)

| Coupling Series | Insert Part No. | Insert Color | Continuous Torque Nm | kW Ratings @ Various RPM (Service Factor = 1) | | | | | | | | | |
|-----------------|-----------------|--------------|----------------------|---|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | | 50 | 100 | 300 | 600 | 900 | 1200 | 1750 | 2400 | 3600 | 5000 |
| QF5 | QF5INSERT | Red | 43 | 0.2 | 0.4 | 1.3 | 2.7 | 4.0 | 5.4 | 7.8 | 10.7 | 16.1 | 22.3 |
| | QF5HINSERT | White | 93 | 0.5 | 1.0 | 2.9 | 5.8 | 8.7 | 11.6 | 17.0 | 23.3 | 34.9 | 48.5 |
| | QF5BINSERT | Blue | 93 | 0.5 | 1.0 | 2.9 | 5.8 | 8.7 | 11.6 | 17.0 | 23.3 | 34.9 | 48.5 |
| QF15 | QF15INSERT | Red | 120 | 0.6 | 1.3 | 3.8 | 7.5 | 11.3 | 15.0 | 21.9 | 30.1 | 45.1 | 62.6 |
| | QF15HINSERT | White | 234 | 1.2 | 2.5 | 7.4 | 14.7 | 22.1 | 29.5 | 43.0 | 58.9 | 88.4 | 122.8 |
| | QF15BINSERT | Blue | 234 | 1.2 | 2.5 | 7.4 | 14.7 | 22.1 | 29.5 | 43.0 | 58.9 | 88.4 | 122.8 |
| QF25 | QF25INSERT | Red | 387 | 2.0 | 4.1 | 12.2 | 24.3 | 36.5 | 48.6 | 70.9 | 97.3 | 145.9 | 202.7 |
| | QF25HINSERT | White | 730 | 3.8 | 7.6 | 22.9 | 45.9 | 68.8 | 91.7 | 133.8 | 183.5 | 275.2 | 382.2 |
| | QF25BINSERT | Blue | 730 | 3.8 | 7.6 | 22.9 | 45.9 | 68.8 | 91.7 | 133.8 | 183.5 | 275.2 | 382.2 |
| QF50 | QF50INSERT | Red | 798 | 4.2 | 8.4 | 25.1 | 50.2 | 75.2 | 100.3 | 146.3 | 200.6 | 301.0 | 418.0 |
| | QF50HINSERT | White | 1582 | 8.3 | 16.6 | 49.7 | 99.4 | 149.1 | 198.8 | 289.9 | 397.6 | 596.4 | 828.3 |
| | QF50BINSERT | Blue | 1582 | 8.3 | 16.6 | 49.7 | 99.4 | 149.1 | 198.8 | 289.9 | 397.6 | 596.4 | 828.3 |
| QF100 | QF100INSERT | Red | 1602 | 8.4 | 16.8 | 50.3 | 100.7 | 151.0 | 201.3 | 293.6 | 402.6 | 603.9 | 838.8 |
| | QF100HINSERT | White | 3177 | 16.6 | 33.3 | 99.8 | 199.6 | 299.4 | 399.2 | 582.1 | 798.4 | 1197.6 | 1663.3 |
| | QF100BINSERT | Blue | 3177 | 16.6 | 33.3 | 99.8 | 199.6 | 299.4 | 399.2 | 582.1 | 798.4 | 1197.6 | 1663.3 |
| QF175 | QF175INSERT | Red | 2780 | 14.6 | 29.1 | 87.3 | 174.7 | 262.0 | 349.3 | 509.4 | 698.6 | 1047.9 | 1455.4 |
| | QF175HINSERT | White | 5325 | 27.9 | 55.8 | 167.3 | 334.5 | 501.8 | 669.1 | 975.7 | 1338.1 | 2007.2 | 2787.8 |
| | QF175BINSERT | Blue | 5325 | 27.9 | 55.8 | 167.3 | 334.5 | 501.8 | 669.1 | 975.7 | 1338.1 | 2007.2 | 2787.8 |
| QF250 | QF250INSERT | Red | 3513 | 18.4 | 36.8 | 110.4 | 220.7 | 331.1 | 441.4 | 643.8 | 882.9 | 1324.3 | 1839.3 |
| | QF250HINSERT | White | 6975 | 36.5 | 73.0 | 219.1 | 438.2 | 657.3 | 876.4 | 1278.1 | 1752.8 | 2629.2 | 3651.7 |
| | QF250BINSERT | Blue | 6975 | 36.5 | 73.0 | 219.1 | 438.2 | 657.3 | 876.4 | 1278.1 | 1752.8 | 2629.2 | 3651.7 |
| QF500 | QF500INSERT | Red | 6790 | 35.5 | 71.1 | 213.3 | 426.6 | 639.9 | 853.2 | 1244.2 | 1706.4 | 2559.6 | 3554.9 |
| | QF500HINSERT | White | 13051 | 68.3 | 136.7 | 410.0 | 819.9 | 1229.9 | 1639.9 | 2391.5 | 3279.7 | 4919.6 | 6832.7 |
| | QF500BINSERT | Blue | 13051 | 68.3 | 136.7 | 410.0 | 819.9 | 1229.9 | 1639.9 | 2391.5 | 3279.7 | 4919.6 | 6832.7 |
| QF1000 | QF1000INSERT | Red | 9601 | 50.3 | 100.5 | 301.6 | 603.2 | 904.8 | 1206.4 | 1759.3 | 2412.7 | - | - |
| | QF1000HINSERT | White | 18418 | 96.4 | 192.9 | 578.6 | 1157.1 | 1735.7 | 2314.3 | 3375.0 | 4628.5 | - | - |
| | QF1000BINSERT | Blue | 18418 | 96.4 | 192.9 | 578.6 | 1157.1 | 1735.7 | 2314.3 | 3375.0 | 4628.5 | - | - |
| QF1890 | QF1890INSERT | Red | 10740 | 56.2 | 112.5 | 337.4 | 674.8 | 1012.2 | 1349.6 | 1968.2 | 2699.2 | - | - |
| | QF1890HINSERT | White | 20409 | 106.9 | 213.7 | 641.1 | 1282.3 | 1923.4 | 2564.5 | 3740.0 | 5129.1 | - | - |
| | QF1890BINSERT | Blue | 20409 | 106.9 | 213.7 | 641.1 | 1282.3 | 1923.4 | 2564.5 | 3740.0 | 5129.1 | - | - |
| QF3150 | QF3150INSERT | Red | 11880 | 62.2 | 124.4 | 373.2 | 746.4 | 1119.5 | 1492.7 | 2176.9 | - | - | - |
| | QF3150HINSERT | White | 22401 | 117.3 | 234.6 | 703.7 | 1407.4 | 2111.1 | 2814.8 | 4105.0 | - | - | - |
| | QF3150BINSERT | Blue | 22401 | 117.3 | 234.6 | 703.7 | 1407.4 | 2111.1 | 2814.8 | 4105.0 | - | - | - |
| QF10260 | QF10260INSERT | Red | 23748 | 124.3 | 248.7 | 746.0 | 1492.0 | 2238.1 | 2984.1 | - | - | - | - |
| | QF10260HINSERT | White | 44736 | 234.2 | 468.4 | 1405.3 | 2810.6 | 4216.0 | 5621.3 | - | - | - | - |
| | QF10260BINSERT | Blue | 44736 | 234.2 | 468.4 | 1405.3 | 2810.6 | 4216.0 | 5621.3 | - | - | - | - |

Note: ■ QUICK FLEX flexible couplings can sustain momentary peak torque loads up to 200 percent of their continuous torque rating.

Torque Ratings and Misalignment Tolerances

Table 7. QUICK FLEX Coupling Torque Ratings with Split Covers (Imperial)

| Coupling Series | Insert Part No. | Insert Color | Continuous Torque in-lbs | HP Ratings @ Various RPM (Service Factor = 1) | | | | | | | | | |
|-----------------|-----------------|--------------|--------------------------|---|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| | | | | 50 | 100 | 300 | 600 | 900 | 1200 | 1750 | 2400 | 3600 | 5000 |
| QF15 | QF15INSERT | Red | 1324 | 1.1 | 2.1 | 6.3 | 12.6 | 18.9 | 25.2 | 36.8 | 50.4 | 75.6 | 105.0 |
| | QF15HINSERT | White | 2594 | 2.1 | 4.1 | 12.3 | 24.7 | 37.0 | 49.4 | 72.0 | 98.8 | 148.2 | 205.8 |
| | QF15BINSERT | Blue | 2594 | 2.1 | 4.1 | 12.3 | 24.7 | 37.0 | 49.4 | 72.0 | 98.8 | 148.2 | 205.8 |
| | QF15TINSERT | Black | 4001 | 3.2 | 6.3 | 19.0 | 38.1 | 57.1 | 76.2 | 111.1 | 152.4 | 228.5 | 317.4 |
| QF25 | QF25INSERT | Red | 4283 | 3.4 | 6.8 | 20.4 | 40.8 | 61.2 | 81.5 | 118.9 | 163.1 | 244.6 | 339.8 |
| | QF25HINSERT | White | 8077 | 6.4 | 12.8 | 38.4 | 76.9 | 115.3 | 153.8 | 224.3 | 307.6 | 461.4 | 640.8 |
| | QF25BINSERT | Blue | 8077 | 6.4 | 12.8 | 38.4 | 76.9 | 115.3 | 153.8 | 224.3 | 307.6 | 461.4 | 640.8 |
| | QF25TINSERT | Black | 12449 | 9.9 | 19.8 | 59.3 | 118.5 | 177.8 | 237.0 | 345.7 | 474.1 | 711.1 | 987.6 |
| QF50 | QF50INSERT | Red | 8833 | 7.0 | 14.0 | 42.0 | 84.1 | 126.1 | 168.2 | 245.3 | 336.4 | 504.5 | 700.8 |
| | QF50HINSERT | White | 17502 | 13.9 | 27.8 | 83.3 | 166.6 | 249.9 | 333.2 | 486.0 | 666.5 | 999.7 | 1388.5 |
| | QF50BINSERT | Blue | 17502 | 13.9 | 27.8 | 83.3 | 166.6 | 249.9 | 333.2 | 486.0 | 666.5 | 999.7 | 1388.5 |
| | QF50TINSERT | Black | 26479 | 21.0 | 42.0 | 126.0 | 252.1 | 378.1 | 504.2 | 735.2 | 1008.3 | 1512.5 | 2100.7 |
| QF100 | QF100INSERT | Red | 17723 | 14.1 | 28.1 | 84.4 | 168.7 | 253.1 | 337.4 | 492.1 | 674.9 | 1012.3 | 1406.0 |
| | QF100HINSERT | White | 35144 | 27.9 | 55.8 | 167.3 | 334.6 | 501.9 | 669.1 | 975.8 | 1338.3 | 2007.4 | 2788.1 |
| | QF100BINSERT | Blue | 35144 | 27.9 | 55.8 | 167.3 | 334.6 | 501.9 | 669.1 | 975.8 | 1338.3 | 2007.4 | 2788.1 |
| | QF100TINSERT | Black | 53642 | 42.6 | 85.1 | 255.3 | 510.7 | 766.0 | 1021.3 | 1489.5 | 2042.7 | 3064.0 | 4255.6 |
| QF175 | QF175INSERT | Red | 30753 | 24.4 | 48.8 | 146.4 | 292.8 | 439.2 | 585.5 | 853.9 | 1171.1 | 1756.6 | 2439.7 |
| | QF175HINSERT | White | 58903 | 46.7 | 93.5 | 280.4 | 560.8 | 841.1 | 1121.5 | 1635.5 | 2243.0 | 3364.6 | 4673.0 |
| | QF175BINSERT | Blue | 58903 | 46.7 | 93.5 | 280.4 | 560.8 | 841.1 | 1121.5 | 1635.5 | 2243.0 | 3364.6 | 4673.0 |
| | QF175TINSERT | Black | 88257 | 70.0 | 140.0 | 420.1 | 840.2 | 1260.3 | 1680.4 | 2450.6 | 3360.8 | 5041.3 | 7001.7 |
| QF250 | QF250INSERT | Red | 38864 | 30.8 | 61.7 | 185.0 | 370.0 | 555.0 | 740.0 | 1079.1 | 1479.9 | 2219.9 | 3083.2 |
| | QF250HINSERT | White | 77158 | 61.2 | 122.4 | 367.3 | 734.5 | 1101.8 | 1469.1 | 2142.4 | 2938.2 | 4407.3 | 6121.2 |
| | QF250BINSERT | Blue | 77158 | 61.2 | 122.4 | 367.3 | 734.5 | 1101.8 | 1469.1 | 2142.4 | 2938.2 | 4407.3 | 6121.2 |
| | QF250TINSERT | Black | 118930 | 94.4 | 188.7 | 566.1 | 1132.2 | 1698.3 | 2264.4 | 3302.3 | 4528.9 | 6793.3 | 9435.1 |
| QF500 | QF500INSERT | Red | 75114 | 59.6 | 119.2 | 357.5 | 715.1 | 1072.6 | 1430.2 | 2085.7 | 2860.4 | 4290.5 | 5959.1 |
| | QF500HINSERT | White | 144372 | 114.5 | 229.1 | 687.2 | 1374.4 | 2061.6 | 2748.9 | 4008.7 | 5497.7 | 8246.6 | 11453.6 |
| | QF500BINSERT | Blue | 144372 | 114.5 | 229.1 | 687.2 | 1374.4 | 2061.6 | 2748.9 | 4008.7 | 5497.7 | 8246.6 | 11453.6 |
| | QF500TINSERT | Black | 219429 | 174.1 | 348.2 | 1044.5 | 2089.0 | 3133.5 | 4177.9 | 6092.8 | 8355.9 | 12533.8 | 17408.1 |
| QF1000 | QF1000INSERT | Red | 106208 | 84.3 | 168.5 | 505.6 | 1011.1 | 1516.7 | 2022.2 | 2949.1 | 4044.4 | 6066.6 | - |
| | QF1000HINSERT | White | 203746 | 161.6 | 323.3 | 969.8 | 1939.7 | 2909.5 | 3879.3 | 5657.4 | 7758.7 | 11638.0 | - |
| | QF1000BINSERT | Blue | 203746 | 161.6 | 323.3 | 969.8 | 1939.7 | 2909.5 | 3879.3 | 5657.4 | 7758.7 | 11638.0 | - |
| | QF1000TINSERT | Black | 310466 | 246.3 | 492.6 | 1477.8 | 2955.6 | 4433.5 | 5911.3 | 8620.6 | 11822.6 | 17733.9 | - |
| QF1890 | QF1890INSERT | Red | 175840 | 139.5 | 279.0 | 837.0 | 1674.0 | 2511.0 | 3348.0 | 4882.5 | - | - | - |
| | QF1890HINSERT | White | 344594 | 273.4 | 546.8 | 1640.3 | 3280.5 | 4920.8 | 6561.1 | 9568.3 | - | - | - |
| | QF1890BINSERT | Blue | 344594 | 273.4 | 546.8 | 1640.3 | 3280.5 | 4920.8 | 6561.1 | 9568.3 | - | - | - |
| | QF1890TINSERT | Black | 553982 | 439.5 | 879.0 | 2637.0 | 5273.9 | 7910.9 | 10547.9 | 15382.3 | - | - | - |
| QF3150 | QF3150INSERT | Red | 300387 | 238.3 | 476.6 | 1429.8 | 2859.7 | 4289.5 | 5719.4 | 8340.8 | - | - | - |
| | QF3150HINSERT | White | 566434 | 449.4 | 898.7 | 2696.2 | 5392.5 | 8088.7 | 10784.9 | 15728.0 | - | - | - |
| | QF3150BINSERT | Blue | 566434 | 449.4 | 898.7 | 2696.2 | 5392.5 | 8088.7 | 10784.9 | 15728.0 | - | - | - |
| | QF3150TINSERT | Black | 871139 | 691.1 | 1382.2 | 4146.6 | 8293.3 | 12439.9 | 16586.5 | 24188.7 | - | - | - |
| QF10260 | QF10260INSERT | Red | 600494 | 476.4 | 952.8 | 2858.4 | 5716.7 | 8575.1 | 11433.4 | 16673.8 | - | - | - |
| | QF10260HINSERT | White | 1131179 | 897.4 | 1794.8 | 5384.4 | 10768.9 | 16153.3 | 21537.7 | 31409.2 | - | - | - |
| | QF10260BINSERT | Blue | 1131179 | 897.4 | 1794.8 | 5384.4 | 10768.9 | 16153.3 | 21537.7 | 31409.2 | - | - | - |
| | QF10260TINSERT | Black | 1670826 | 1325.5 | 2651.1 | 7953.2 | 15906.3 | 23859.5 | 31812.6 | 46393.4 | - | - | - |

Note: ■ QUICK FLEX flexible couplings can sustain momentary peak torque loads up to 200 percent of their continuous torque rating.

Torque Ratings and Misalignment Tolerances

Table 8. QUICK FLEX Coupling Torque Ratings with Split Covers (Metric)

| Coupling Series | Insert Part No. | Insert Color | Continuous Torque Nm | kW Ratings @ Various RPM (Service Factor = 1) | | | | | | | | | |
|-----------------|-----------------|--------------|----------------------|---|--------|--------|---------|---------|---------|---------|--------|---------|---------|
| | | | | 50 | 100 | 300 | 600 | 900 | 1200 | 1750 | 2400 | 3600 | 5000 |
| QF15 | QF15INSERT | Red | 150 | 0.8 | 1.6 | 4.7 | 9.4 | 14.1 | 18.8 | 27.4 | 37.6 | 56.4 | 78.3 |
| | QF15HINSERT | White | 293 | 1.5 | 3.1 | 9.2 | 18.4 | 27.6 | 36.8 | 53.7 | 73.7 | 110.5 | 153.5 |
| | QF15BINSERT | Blue | 293 | 1.5 | 3.1 | 9.2 | 18.4 | 27.6 | 36.8 | 53.7 | 73.7 | 110.5 | 153.5 |
| | QF15TINSERT | Black | 452 | 2.4 | 4.7 | 14.2 | 28.4 | 42.6 | 56.8 | 82.8 | 113.6 | 170.4 | 236.7 |
| QF25 | QF25INSERT | Red | 484 | 2.5 | 5.1 | 15.2 | 30.4 | 45.6 | 60.8 | 88.7 | 121.6 | 182.4 | 253.4 |
| | QF25HINSERT | White | 913 | 4.8 | 9.6 | 28.7 | 57.3 | 86.0 | 114.7 | 167.2 | 229.4 | 344.0 | 477.8 |
| | QF25BINSERT | Blue | 913 | 4.8 | 9.6 | 28.7 | 57.3 | 86.0 | 114.7 | 167.2 | 229.4 | 344.0 | 477.8 |
| | QF25TINSERT | Black | 1407 | 7.4 | 14.7 | 44.2 | 88.4 | 132.6 | 176.8 | 257.8 | 353.5 | 530.3 | 736.5 |
| QF50 | QF50INSERT | Red | 998 | 5.2 | 10.5 | 31.4 | 62.7 | 94.1 | 125.4 | 182.9 | 250.8 | 376.2 | 522.6 |
| | QF50HINSERT | White | 1978 | 10.4 | 20.7 | 62.1 | 124.2 | 186.4 | 248.5 | 362.4 | 497.0 | 745.5 | 1035.4 |
| | QF50BINSERT | Blue | 1978 | 10.4 | 20.7 | 62.1 | 124.2 | 186.4 | 248.5 | 362.4 | 497.0 | 745.5 | 1035.4 |
| | QF50TINSERT | Black | 2992 | 15.7 | 31.3 | 94.0 | 188.0 | 282.0 | 376.0 | 548.3 | 751.9 | 1127.9 | 1566.5 |
| QF100 | QF100INSERT | Red | 2003 | 10.5 | 21.0 | 62.9 | 125.8 | 188.7 | 251.6 | 367.0 | 503.3 | 754.9 | 1048.5 |
| | QF100HINSERT | White | 3971 | 20.8 | 41.6 | 124.7 | 249.5 | 374.2 | 499.0 | 727.7 | 998.0 | 1496.9 | 2079.1 |
| | QF100BINSERT | Blue | 3971 | 20.8 | 41.6 | 124.7 | 249.5 | 374.2 | 499.0 | 727.7 | 998.0 | 1496.9 | 2079.1 |
| | QF100TINSERT | Black | 6061 | 31.7 | 63.5 | 190.4 | 380.8 | 571.2 | 761.6 | 1110.7 | 1523.2 | 2284.9 | 3173.4 |
| QF175 | QF175INSERT | Red | 3475 | 18.2 | 36.4 | 109.2 | 218.3 | 327.5 | 436.6 | 636.8 | 873.3 | 1309.9 | 1819.3 |
| | QF175HINSERT | White | 6656 | 34.8 | 69.7 | 209.1 | 418.2 | 627.2 | 836.3 | 1219.6 | 1672.6 | 2509.0 | 3484.7 |
| | QF175BINSERT | Blue | 6656 | 34.8 | 69.7 | 209.1 | 418.2 | 627.2 | 836.3 | 1219.6 | 1672.6 | 2509.0 | 3484.7 |
| | QF175TINSERT | Black | 9973 | 52.2 | 104.4 | 313.3 | 626.5 | 939.8 | 1253.1 | 1827.4 | 2506.2 | 3759.3 | 5221.2 |
| QF250 | QF250INSERT | Red | 4391 | 23.0 | 46.0 | 138.0 | 275.9 | 413.9 | 551.8 | 804.7 | 1103.6 | 1655.4 | 2299.2 |
| | QF250HINSERT | White | 8718 | 45.6 | 91.3 | 273.9 | 547.8 | 821.6 | 1095.5 | 1597.6 | 2191.0 | 3286.5 | 4564.6 |
| | QF250BINSERT | Blue | 8718 | 45.6 | 91.3 | 273.9 | 547.8 | 821.6 | 1095.5 | 1597.6 | 2191.0 | 3286.5 | 4564.6 |
| | QF250TINSERT | Black | 13438 | 70.4 | 140.7 | 422.1 | 844.3 | 1266.4 | 1688.6 | 2462.5 | 3377.2 | 5065.8 | 7035.8 |
| QF500 | QF500INSERT | Red | 8487 | 44.4 | 88.9 | 266.6 | 533.2 | 799.9 | 1066.5 | 1555.3 | 2133.0 | 3199.5 | 4443.7 |
| | QF500HINSERT | White | 16313 | 85.4 | 170.8 | 512.5 | 1024.9 | 1537.4 | 2049.8 | 2989.3 | 4099.7 | 6149.5 | 8541.0 |
| | QF500BINSERT | Blue | 16313 | 85.4 | 170.8 | 512.5 | 1024.9 | 1537.4 | 2049.8 | 2989.3 | 4099.7 | 6149.5 | 8541.0 |
| | QF500TINSERT | Black | 24794 | 129.8 | 259.6 | 778.9 | 1557.8 | 2336.6 | 3115.5 | 4543.4 | 6231.0 | 9346.5 | 12981.3 |
| QF1000 | QF1000INSERT | Red | 12001 | 62.8 | 125.7 | 377.0 | 754.0 | 1131.0 | 1508.0 | 2199.1 | 3015.9 | 4523.9 | - |
| | QF1000HINSERT | White | 23022 | 120.5 | 241.1 | 723.2 | 1446.4 | 2169.6 | 2892.8 | 4218.7 | 5785.7 | 8678.5 | - |
| | QF1000BINSERT | Blue | 23022 | 120.5 | 241.1 | 723.2 | 1446.4 | 2169.6 | 2892.8 | 4218.7 | 5785.7 | 8678.5 | - |
| | QF1000TINSERT | Black | 35081 | 183.7 | 367.3 | 1102.0 | 2204.0 | 3306.1 | 4408.1 | 6428.4 | 8816.1 | 13224.2 | - |
| QF1890 | QF1890INSERT | Red | 19869 | 104.0 | 208.1 | 624.2 | 1248.3 | 1872.5 | 2496.6 | 3640.9 | - | - | - |
| | QF1890HINSERT | White | 38937 | 203.9 | 407.7 | 1223.2 | 2446.3 | 3669.5 | 4892.6 | 7135.1 | - | - | - |
| | QF1890BINSERT | Blue | 38937 | 203.9 | 407.7 | 1223.2 | 2446.3 | 3669.5 | 4892.6 | 7135.1 | - | - | - |
| | QF1890TINSERT | Black | 62597 | 327.7 | 655.5 | 1966.4 | 3932.8 | 5899.2 | 7865.6 | 11470.6 | - | - | - |
| QF3150 | QF3150INSERT | Red | 33942 | 177.7 | 355.4 | 1066.2 | 2132.5 | 3198.7 | 4265.0 | 6219.7 | - | - | - |
| | QF3150HINSERT | White | 64004 | 335.1 | 670.2 | 2010.6 | 4021.2 | 6031.8 | 8042.4 | 11728.5 | - | - | - |
| | QF3150BINSERT | Blue | 64004 | 335.1 | 670.2 | 2010.6 | 4021.2 | 6031.8 | 8042.4 | 11728.5 | - | - | - |
| | QF3150TINSERT | Black | 98434 | 515.4 | 1030.7 | 3092.2 | 6184.3 | 9276.5 | 12368.6 | 18037.6 | - | - | - |
| QF10260 | QF10260INSERT | Red | 67852 | 355.2 | 710.5 | 2131.5 | 4263.0 | 6394.5 | 8526.0 | 12433.7 | - | - | - |
| | QF10260HINSERT | White | 127817 | 669.2 | 1338.4 | 4015.2 | 8030.4 | 12045.6 | 16060.8 | 23421.9 | - | - | - |
| | QF10260BINSERT | Blue | 127817 | 669.2 | 1338.4 | 4015.2 | 8030.4 | 12045.6 | 16060.8 | 23421.9 | - | - | - |
| | QF10260TINSERT | Black | 188794 | 988.4 | 1976.9 | 5930.7 | 11861.4 | 17792.1 | 23722.8 | 34595.7 | - | - | - |

Note: ■ QUICK FLEX flexible couplings can sustain momentary peak torque loads up to 200 percent of their continuous torque rating.

Torque Ratings and Misalignment Tolerances

Table 9. QUICK FLEX Coupling Misalignment Tolerances

| Coupling Series | Radial Misalignment Tolerance | Axial Misalignment Tolerance | Angular Misalignment Tolerance |
|-----------------|-------------------------------|------------------------------|--------------------------------|
| | mm in | mm in | |
| QF5 | 0.51 | 1.98 | 2° |
| | 0.020 | 0.078 | |
| QF15 | 0.99 | 2.95 | 2° |
| | 0.039 | 0.116 | |
| QF25 | 0.99 | 2.95 | 2° |
| | 0.039 | 0.116 | |
| QF50 | 0.97 | 2.95 | 2° |
| | 0.038 | 0.116 | |
| QF100 | 1.47 | 3.96 | 2° |
| | 0.058 | 0.156 | |
| QF175 | 1.47 | 4.45 | 1.3° |
| | 0.058 | 0.175 | |
| QF250 | 1.47 | 5.94 | 1.3° |
| | 0.058 | 0.234 | |
| QF500 | 1.47 | 5.94 | 1° |
| | 0.058 | 0.234 | |
| QF1000 | 1.47 | 5.94 | 1° |
| | 0.058 | 0.234 | |
| QF1890 | 1.47 | 7.92 | 1° |
| | 0.058 | 0.312 | |
| QF3150 | 1.98 | 7.92 | 1° |
| | 0.078 | 0.312 | |
| QF10260 | 1.98 | 7.92 | 1° |
| | 0.078 | 0.312 | |

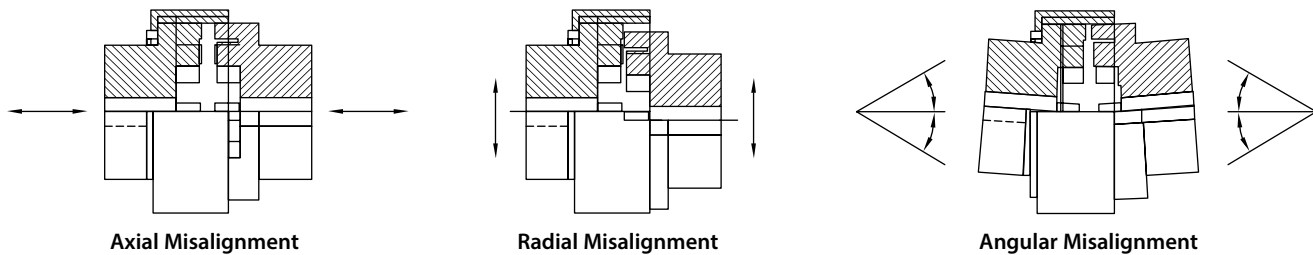


Fig. 4. Types of misalignment.

Engineering

Coupling Service Factors for Applications

Coupling Service Factors for Applications

Suggested service factors listed are typical values based on normal operation of the mechanical power transmission system.

| Application | Service Factor |
|--|------------------------|
| Aerators | 2.5 |
| Aggregate Processing, Cement, Mining Kilns | |
| Direct or on Line Shaft of Reducer | |
| With Final Drive Machined Spur Gears | 2.25 |
| With Single Helical or Herringbone Gears | 2.0 |
| Crushers, Ore or Stone | 2.75 |
| Dryer, Rotary | 2.0 |
| Grizzly | 2.25 |
| Hammermill or Hog | 2.0 |
| Tumbling Mill or Barrel | 2.0 |
| Agitators (also see Mixers) | |
| Vertical, Horizontal, Screw, Propeller, Paddle | 1.25 |
| Barge Haul Puller | 1.75 |
| Blowers | |
| Centrifugal | 1.5 |
| Lobe or Vane | 1.5 |
| Brewing and Distilling | |
| Bottle- and Can-Filling Machines | 1.5 |
| Brew Kettle | 1.25 |
| Cookers, Continuous Duty | 1.5 |
| Lauter Tub | 1.75 |
| Mash Tub | 1.5 |
| Scale Hopper, Frequent Peaks | 2.0 |
| Clarifier or Classifier | 1.25 |
| Clay-Working Industry | |
| Brick Press, Briquette Machine, Clay-Working Machine, Pug Mill | 2.0 |
| Compressors | |
| Centrifugal | 1.25 |
| Rotary, Lobe or Vane | 1.5 |
| Rotary, Screw | 1.5 |
| Reciprocating | |
| Direct Connected | Refer to Equipment OEM |
| Without Flywheels | Refer to Equipment OEM |
| With Flywheel and Gear between Compressor and Prime Monitor | |
| One Cylinder, Single Acting | 3.0 |
| One Cylinder, Double Acting | 3.0 |
| Two Cylinders, Single Acting | 3.0 |
| Two Cylinders, Double Acting | 3.0 |
| Three Cylinders, Single Acting | 3.0 |
| Three Cylinders, Double Acting | 2.0 |
| Four or More Cyl., Single Acting | 2.5 |
| Four or More Cyl., Double Acting | 2.5 |

| Application | Service Factor |
|--|----------------|
| Conveyors | |
| Apron, Assembly, Belt, Chain, Flight, Screw | 1.75 |
| Bucket | 1.75 |
| Live Roll, Shaker and Reciprocating | 3.0 |
| Bridge, Travel or Trolley | 2.50 |
| Dredgers | |
| Cable Reel | 2.0 |
| Conveyors | 1.50 |
| Cutter Head, Jig Drive | 2.5 |
| Maneuvering Winch | 1.75 |
| Pumps (Uniform Load) | 1.75 |
| Screen Drive, Stacker | 2.0 |
| Utility Winch | 2.0 |
| Dynamometer | 1.5 |
| Elevators: Bucket, Centrifugal Discharge | 1.75 |
| Exciter, Generator | 1.5 |
| Extruder, Plastic | 1.5 |
| Fans | |
| Centrifugal | 1.25 |
| Cooling Tower | 2.0 |
| Forced Draft-Across the Line Start | 1.75 |
| Feeders | |
| Apron, Belt, Disc, Screw | 1.25 |
| Reciprocating | 2.5 |
| Food Industry | |
| Beet Slicer | 2.0 |
| Bottle- and Can-Filling Machine | 1.5 |
| Cereal Cooker | 1.5 |
| Dough Mixer, Meat Grinder | 2.0 |
| Forced-Draft Motor Driven through Fluid or Electro-Slip Clutch | 1.25 |
| Gas Recirculating | 1.50 |
| Induced Draft with Damper Control or Blade Cleaner | 1.50 |
| Induced Draft without Controls | 2.0 |
| Generators | |
| Even Load | 1.25 |
| Hoist or Railway Service | 1.75 |
| Welder Load | 2.0 |
| Hammermill | 1.75 |
| Laundry Washer or Tumbler | 2.0 |
| Line Shafts, Any Processing Machinery | 1.5 |

Continued on next page.

Engineering

Coupling Service Factors for Applications

Coupling Service Factors for Applications

Suggested service factors listed are typical values based on normal operation of the mechanical power transmission system.

| Application | Service Factor |
|---|------------------------|
| Lumber | |
| Band Resaw | 2.0 |
| Circular Resaw, Cutoff | 2.0 |
| Edger, Head Rig, Hog | 2.5 |
| Gang Saw (Reciprocating) | 3.0 |
| Log Haul | 2.5 |
| Planer | 2.0 |
| Rolls, Non-Reversing | 1.5 |
| Rolls, Reversing | 2.5 |
| Sawdust Conveyor | 1.5 |
| Slab Conveyor | 2.0 |
| Sorting Table | 1.75 |
| Trimmer | 2.0 |
| Machine Tools | |
| Auxiliary and Traverse Drive | 1.0 |
| Bending Roll, Notching Press, Punch, Press, Planer, Plate-Reversing | 1.75 |
| Main Drive | 1.5 |
| Metal Rolling Mills | |
| Coilers (Up or Down) Cold Mill Only | 1.75 |
| Coilers (Up or Down) Hot Mill Only | 2.25 |
| Coke Plants | |
| Pusher Ram Drive | 2.75 |
| Door Opener | 2.25 |
| Pusher or Larry Car Traction Drive | 3.25 |
| Continuous Caster | 2.0 |
| Cold Mills | |
| Strip Mills | Refer to Equipment OEM |
| Temper Mills | Refer to Equipment OEM |
| Cooling Beds | 1.75 |
| Drawbench | 2.25 |
| Feed Rolls: Blooming Mills | 3.25 |
| Furnace Pushers | 2.25 |
| Hot and Cold Saws | 2.25 |
| Hot Mills | |
| Strip or Sheet Mills | Refer to Equipment OEM |
| Reversing Blooming | Refer to Equipment OEM |
| Slabbing Mills | Refer to Equipment OEM |
| Edger Drives | Refer to Equipment OEM |
| Ingot Cars | 2.25 |
| Manipulators | 3.25 |
| Merchant Mills | Refer to Equipment OEM |

| Application | Service Factor |
|---|------------------------|
| Mill Tables | |
| Roughing Breakdown Mills | 3.25 |
| Hot Bed or Transfer (Non-Reversing) | 1.75 |
| Runout (Reversing) | 3.25 |
| Runout (Non-Reversing, Non-Plugging) | 2.25 |
| Reel Drives | 2.0 |
| Rod Mills | Refer to Equipment OEM |
| Screwdown | 2.25 |
| Seamless-Tube Mills | |
| Piercer | 3.25 |
| Thrust Block | 2.25 |
| Tube-Conveyor Rolls | 2.25 |
| Reeler | 2.25 |
| Kick Out | 2.25 |
| Shear, Croppers | Refer to Equipment OEM |
| Sideguards | 3.25 |
| Skelp Mills | Refer to Equipment OEM |
| Slitters (Steel Mill Only) | 2.0 |
| Soaking Pit Cover Drives | |
| Lift | 1.25 |
| Travel | 2.25 |
| Straighteners | 2.25 |
| Unscramblers (Billet Bundle Busters) | 2.25 |
| Wire-Drawing Machinery | 2.0 |
| Mixers (also see Agitators) | |
| Concrete | 1.75 |
| Muller | 1.5 |
| Oil Industry | |
| Chiller | 1.50 |
| Oilwell Pumping (Not Over 150 Percent Peak Torque) | 2.5 |
| Paraffin Filter Press | 1.75 |
| Rotary Kiln | 2.5 |
| Paper Mills | |
| Barker, Auxiliary, Hydraulic | 2.5 |
| Barker, Mechanical | 2.5 |
| Barker, Drum L.S. Shaft of Reducer with Final Drive | |
| Helical or Herringbone Gear | 2.5 |
| Machined Spur Gear | 3.0 |
| Cast Tooth Spur Gear | 3.0 |
| Beater and Pulper | 2.0 |
| Bleachers, Coaters | 1.5 |
| Calendar and Super Calendar | 2.0 |
| Chipper | 3.0 |
| Converting Machine | 1.50 |
| Couch | 2.00 |
| Cutter, Felt Whipper | 2.25 |

Continued on next page.

Engineering

Coupling Service Factors for Applications

Coupling Service Factors for Applications

Suggested service factors listed are typical values based on normal operation of the mechanical power transmission system.

| Application | Service Factor |
|---|----------------|
| Cylinder, Dryer | 2.00 |
| Felt Stretcher | 1.75 |
| Fourdrinier | 2.00 |
| Jordan | 2.5 |
| Log Haul | 2.5 |
| Line Shaft | 1.75 |
| Press | 2.0 |
| Pulp Grinder | 2.0 |
| Reel, Rewinder, Winder | 2.0 |
| Stock Chest, Washer, Thickener | 1.75 |
| Stock Pumps, Centrifugal | |
| Constant Speed | 1.25 |
| Frequent Speed Changes Under Load | 1.5 |
| Suction Roll | 2.0 |
| Press, Printing | 1.5 |
| Pug Mill | 1.75 |
| Pulverizers | |
| Hammermill and Hog | 1.75 |
| Roller | 1.5 |
| Pumps: Centrifugal | |
| Constant Speed | 1.0 |
| Frequent Speed Changes Under Load | 1.75 |
| Descaling, with Accumulators | 1.75 |
| Gear, Rotary or Vane | 1.75 |
| Pumps: Reciprocating | |
| One Cylinder, Single or Double Acting | 3.0 |
| Two Cylinder, Single Acting | 2.5 |
| Two Cylinder, Double Acting | 2.0 |
| Three or More Cylinders | 2.0 |
| Rubber Industry | |
| Calendar | 2.25 |
| Cracker, Plasticolour | 2.5 |
| Extruder | 2.0 |
| Tire and Tube-Press Opener (Peak Torque) | 1.5 |
| Warming Mill | |
| One or Two Mills in Line | 2.0 |
| Three or More Mills in Line | 2.50 |
| Washer | 2.75 |
| Screens | |
| Air Washing | 1.5 |
| Grizzly | 2.5 |
| Rotary Coal or Sand | 2.0 |
| Vibrating | 2.5 |
| Water | 1.5 |
| Sewage-Disposal Equipment | |
| Bar Screen, Chemical Feeders, Collectors, Dewatering Screen, Grit Collector | 1.5 |
| Mill Stands, Turbine Driven with all Helical or Herringbone Gears | 1.75 |

| Application | Service Factor |
|---|------------------------|
| Electric-Drive or Steam-Engine Drive with Helical or Herringbone | 2.0 |
| Stoker | 1.0 |
| Sugar Industry | |
| Cone Carrier and Leveler | 2.25 |
| Cane Knife and Crusher | 2.5 |
| Mill Stands, Turbine Driver with all Helical or Herringbone Gears | 1.75 |
| Electric-Drive or Steam-Engine Drive with Helical, Herringbone or Spur Gears with any Prime Mover | 2.0 |
| Textile Industry | |
| Batcher | 1.5 |
| Calendar, Card Machine | 1.75 |
| Cloth-Finishing Machine | 1.75 |
| Dry Can, Loom | 1.75 |
| Dyeing Machinery | 1.5 |
| Knitting Machine | Refer to Equipment OEM |
| Mangle, Napper, Soaper | 1.5 |
| Spinner, Tenter Frame, Winder | 1.75 |
| Tumbling Barrel | 2.0 |
| Winch, Maneuvering: Dredge, Marine | 1.5 |
| Windlass | 1.5 |

Engine Drive Service Factors

Service factors for engine drives are those required for applications where good flywheel regulation prevents torque fluctuation greater than 20 percent. 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.

To determine an engine drive service factor, first determine the application service factor for motors. Then, use that to find the correct engine service factor in the table below. When the application service factor for motors is greater than 2.0 or where one-, two- or three-cylinder engines are involved, please contact your Lovejoy Application engineer with complete application details for an engineering review.

Table 10. Engine Service Factor

| Application Service Factor | Engine Service Factor | |
|----------------------------|-----------------------|--------------|
| | 4 to 5 Cylinders | 6+ Cylinders |
| 1.00 | 2.00 | 1.50 |
| 1.25 | 2.25 | 1.75 |
| 1.50 | 2.50 | 2.00 |
| 1.75 | 2.75 | 2.25 |
| 2.00 | 3.00 | 2.50 |

Engineering

Coupling Insert Chemical Compatibility

| A – Little to no effect B – Minor to moderate effect C – Severe effect to destruction N – No data. Test prior to use. | Urethane |
|--|----------|
| Acetaldehyde | C |
| Acetamide | N |
| Acetic Acid | C |
| Acetic Anhydride | C |
| Acetone | C |
| Acetyl Bromide | C |
| Acetyl Chloride | C |
| Acetylene | C |
| Adipic Acid | A |
| Aero Shell Grease | B |
| Aero Lubriplate | A |
| Aero Safe 2300 | N |
| Aerozene 50 | N |
| Aluminum Acetate | N |
| Aluminum Bromide | N |
| Aluminum Chloride | B |
| Aluminum Sulfate | B |
| Ammonia | B |
| Ammonium Carbonate | B |
| Ammonium Chloride | N |
| Ammonium Hydroxide | B |
| Ammonium Nitrate | B |
| Ammonium Persulfate | B |
| Ammonium Sulfate | B |
| Ammonium Sulfide | B |
| Ammonium Thiocyanate | B |
| Amonnium Acetate | C |
| Amyl Acetate | C |
| Amyl Alcohol | C |
| Aniline | C |
| Aniline Hydrochloride | C |
| Animal Fats and Oils | B |
| Antimony Salts | B |
| Aqua Regia | C |
| Arsenic Salts | B |
| ASTM Oil #1 | A |
| ASTM Oil #2 | B |
| ASTM Oil #3 | B |
| ASTM Reference Fuel A | A |
| ASTM Reference Fuel B | B |
| Atlantic Oil | A |
| Barium Carbonate | B |
| Barium Hydroxide | A |
| Beer | A |
| Benzaldehyde | B |
| Benzene | C |
| Benzoic Acid | B |
| Black Sulphate Liquors | N |

| A – Little to no effect B – Minor to moderate effect C – Severe effect to destruction N – No data. Test prior to use. | Urethane |
|--|----------|
| Bleach Solutions | N |
| Boric Acid | A |
| Brake Fluid | N |
| Bromine | B |
| Bunker Oil | A |
| Butane | A |
| Butyl Acetate | C |
| Butyl Alcohol | B |
| Calcium Carbonate | B |
| Calcium Chloride | A |
| Calcium Hydroxide | A |
| Calcium Nitrate | B |
| Calcium Sulfate | B |
| Carbon Dioxide | A |
| Carbon Disulfide | B |
| Carbon Monoxide | A |
| Carbon Tetrachloride | C |
| Chlorine | N |
| Chloroacetic Acid | C |
| Chloroform | C |
| Chromic Acid | C |
| Chromium Potassium Sulfate | B |
| Citric Acid | B |
| Corn Oil | A |
| Cottonseed Oil | A |
| Cresol | C |
| Crude Oil | B |
| Cupric Chloride | A |
| Cupric Nitrate | B |
| Cupric Sulfate | B |
| Cutting Oil | B |
| Cyclohexane | B |
| Cyclohexanone | C |
| Dibutyl Phthalate | C |
| Dichlorobenzene | C |
| Diesel Fuel | B |
| Diester Oil | B |
| Dimethyl Acetamide | C |
| Dimethyl Formamide | C |
| Dodecyl Mercaptan | B |
| DTE Oil | B |
| Dibutyl Ether | B |
| EP Lubes | A |
| Esso #90 Lube Oil | A |
| Ether | B |
| Ethyl Acetate | C |
| Ethyl Alcohol (Ethanol) | C |
| Formic Acid | C |

| A – Little to no effect B – Minor to moderate effect C – Severe effect to destruction N – No data. Test prior to use. | Urethane |
|--|----------|
| Freon, 12 or 113 | A |
| Fuel Oil | B |
| Gasoline | B |
| Glucose | A |
| Glue | N |
| Glycerin | A |
| Heptane | A |
| Hexane | A |
| Hydrazine | C |
| Hydrobromic Acid | B |
| Hydrocarbon Oil | A |
| Hydrochloric Acid | B |
| Hydrofluoric Acid | B |
| Hydrogen | A |
| Hydrogen Peroxide | B |
| Hydrogen Sulfide | C |
| Hydrologic Acid | B |
| Iodine | A |
| Isobutyl Alcohol | N |
| Isopropyl Chloride | N |
| Isopropyl Ether | B |
| Isopropyl Alcohol (Propanol) | B |
| JP4 Oil | B |
| JP5 and 6 Oil | C |
| Kerosene | B |
| Lactic Acid | B |
| Lead Acetate | B |
| Linseed Oil | B |
| Liquefied Petroleum Gas | A |
| Lubrication Oil | B |
| Lye | N |
| Magnesium Chloride | N |
| Magnesium Hydroxide | A |
| Magnesium Salts | B |
| Malaic Acid | C |
| Mercury | B |
| Methyl Alcohol (Methanol) | A |
| Methyl Ethyl Ketone | C |
| Methylene Chloride | C |
| MIL-D-5606 Oil | C |
| MIL-L-7808 Oil | B |
| Mineral Oil | A |
| Mineral Spirits | N |
| Naphthalene | B |
| Natural Gas | B |
| Nickel Salts | C |
| Oxygen | A |

Continued on next page.

Engineering

Coupling Insert Chemical Compatibility

| A – Little to no effect B – Minor to moderate effect C – Severe effect to destruction N – No data. Test prior to use. | Urethane |
|--|----------|
| Ozone | A |
| Paimitic Acid | A |
| Paint Thinner | B |
| Peanut Oil | A |
| Perchloric Acid | C |
| Perchloroethylene | C |
| Petroleum | B |
| Phenol (Carbolic Acid) | C |
| Phosphoric Acid | C |
| Potassium Cyanide | A |
| Potassium Salts | B |
| Propane | B |
| Propyl Alcohol | B |
| Propylene Glycol | B |
| Pydraul Oil | C |
| SAE #10 Oil | A |
| Seawater | A |
| Silicic Acid | B |
| Silver Nitrate | B |
| Skydrol Oil | C |
| Soap | B |
| Sodium Acetate | A |
| Sodium Bicarbonate | B |
| Sodium Borate | B |
| Sodium Carbonate | B |
| Sodium Chloride | B |
| Sodium Cyanide | B |
| Sodium Hydrosulfite | B |
| Sodium Hydroxide | B |
| Sodium Hypochlorite | C |
| Sodium Nitrate | B |
| Sodium Silicate | A |
| Sodium Sulfate | B |
| Sodium Sulfide | B |
| Steam | C |
| Styrene | B |
| Sulfur Dioxide | B |
| Sulfuric Acid | C |
| Tannic Acid | A |
| Tartaric Acid | A |
| Toluene | C |
| Transformer Oil | B |
| Turpentine | C |
| Urea | B |
| Varnish | B |
| Water | B |

Standard Coupling Installation

Please complete the following steps to install QUICK FLEX couplings.

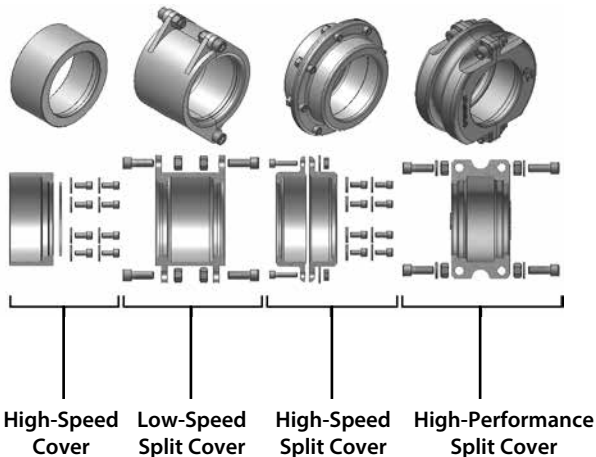
You should have the following pieces before starting the job:

- Two hubs
- One insert
- One cover with included hardware

Note: It is critical to identify what style cover you are using, as this will change the hardware included, as well as the installation procedure. A mismatch between the coupling and the application may result in less than optimal performance.

There are four types of covers (fig. 5):

- **High-speed cover:** QF5 through QF175 use standard snap ring to secure cover in place. QF250 and larger use eight bolts with lock washers.
- **Low-speed split cover:** This cover is free-floating and is located outside the shoulders of the two hubs. All sizes come with four bolts for securing the two halves together around the insert.
- **High-speed split cover:** QF15 through QF250 use eight bolts around the rim to secure the two halves together, QF500 through QF1890 use 16 bolts, and QF3150 and larger use 20 bolts. QF250 and larger use eight bolts with lock washers to secure the cover to one of the hubs.
- **High-performance split cover:** This cover is free-floating and is located on the insert with an internal radial groove. All sizes come with four socket-head cap screws for securing the two halves together around the insert.



Installation

1. Check the bore size of the coupling halves and the shafts. Ensure that they are the correct bore size to fit the application.
2. If the coupling does not fit easily, clean and deburr the shafts.
3. Identify cover style:
 - d. **If using a high-speed cover**, it should be placed on the driven shaft. If space does not permit, then it can be mounted on the drive shaft. If cover uses a snap ring, slide the snap ring down the shaft, then slide the cover onto shaft with the larger opening facing the shaft separation.
 - e. **If using a low-speed or high-performance split cover**, leave cover aside and continue to step 4.
 - f. **If using a high-speed split cover**, QF250 and larger, use bolts and washers to secure in place. Slide one half down each shaft before installing hubs. Do not bolt into place until installation is complete.

Note: Standard hubs are supplied with a clearance fit and should slide onto the shaft without excessive force. If the hubs have been ordered with interference fit, then industry standards suggest heating the coupling halves to approximately 300° C (572° F) before installing on shafts. If not heated properly, the couplings will not fit on the hub properly.

⚠ WARNING

Failure to observe the following warnings could create a risk of death or serious injury.

Contact with moving parts and/or rotating shafts poses a risk of serious injury. Proper guards in accordance with OSHA and American Society of Mechanical Engineers standards must be installed on all power transmission equipment. Power transmission equipment should not be started if proper guarding is not in place. Observe all required lock out/tag out procedures when servicing power transmission equipment.

Fig. 5. QUICK FLEX cover types and included hardware.

Standard Coupling Installation

4. Install the first hub. It should be mounted so the end of the shaft is flush with surface "A" as shown in fig. 6. It is acceptable for the shaft to extend past "A" as long as it is not past the teeth shown as "B."
5. Install the second hub with the insert in place. This will set the hubs at the minimum hub gap (G_{Min}) dimension, ensuring proper clearance. For specific G_{Min} and G_{Max} dimensions see table 12.
6. Tighten both hubs securely to the shafts.
7. Check coupling for misalignment (table 13) and align as necessary.
8. Install the cover:
 - a. **High-speed cover:** Slide the cover over the hub and insert until fully rested against the shoulder of the hub. QF5 through QF175 use standard snap rings to hold the cover in place. QF250 and larger couplings use eight bolts and washers. Use the included hardware to secure the cover.
 - b. **Low-speed or high-performance split cover:** Place each half over the insert and secure using the four bolt/washer/nut hardware combinations supplied. For the high-performance split cover bolt tightening torque ratings, see table 11.
 - c. **High-speed split cover:** Slide the two cover halves over the hub and insert until faces meet. Install the radial outer bolts used to secure the two halves together. Install the bolts to secure the cover to **one** hub.

Table 11. High-Performance Split Cover Tightening Torque

| Coupling Series | Bolts mm | Tightening Torque Nm ft-lbs |
|-----------------|----------------|--------------------------------|
| QF15HPCOVER | (4) M6 X 25MM | 10.8 8 |
| QF25HPCOVER | (4) M10 X 35MM | 40.7 30 |
| QF50HPCOVER | (4) M12 X 45MM | 101.7 75 |
| QF100HPCOVER | (4) M12 X 60MM | 101.7 75 |
| QF175HPCOVER | (4) M16 X 65MM | 169.5 125 |
| QF250HPCOVER | (4) M20 X 60MM | 203.4 150 |
| QF500HPCOVER | (4) M20 X 60MM | 203.4 150 |

Revolutions Per Minute (RPM) and Balance

The QUICK FLEX coupling is machined on all surfaces and thus its dynamic balance is good. If the coupling is run at a high speed, it is important that the keys used to attach the hubs are the same length as the hub. The set screws should also be changed to full length to fill the hole. Please refer to table 14 for maximum RPM ratings.

Note: Shaft should penetrate to base of teeth and hubs should be set at G_{Min} . Otherwise, the coupling may not deliver maximum torque.

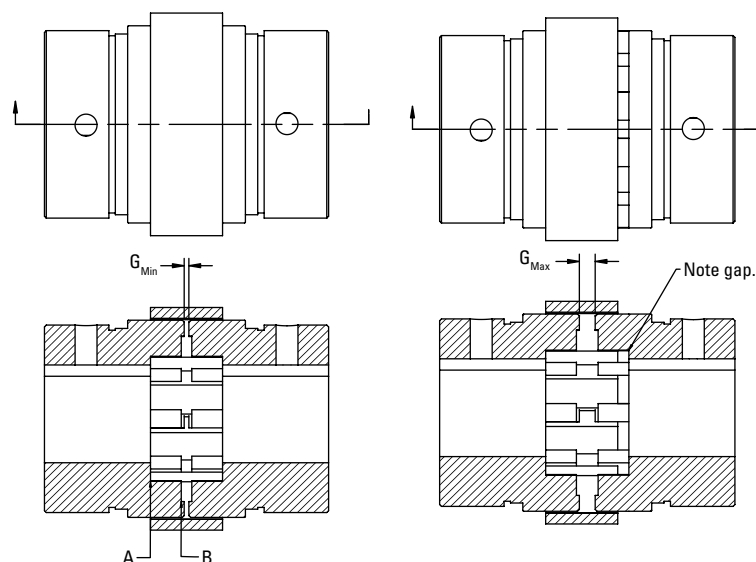


Fig. 6. Proper shaft-to-hub engagement.

Standard Coupling Installation

Table 12. QUICK FLEX Standard Coupling Hub Gap (G) Dimensions

| Coupling Series | High-Speed Cover | | Low-Speed Split Cover | | High-Speed Split Cover | | High-Performance Split Cover | |
|-----------------|------------------|------------------|-----------------------|------------------|------------------------|------------------|------------------------------|------------------|
| | G _{Min} | G _{Max} | G _{Min} | G _{Max} | G _{Min} | G _{Max} | G _{Min} | G _{Max} |
| | mm in | mm in | mm in | mm in | mm in | mm in | mm in | mm in |
| QF5 | 1.60 | 2.34 | N/A | N/A | N/A | N/A | N/A | N/A |
| | 0.063 | 0.092 | | | | | | |
| QF15 | 2.27 | 2.64 | 2.01 | 2.51 | 2.27 | 2.64 | 2.27 | 2.64 |
| | 0.089 | 0.104 | 0.079 | 0.099 | 0.089 | 0.104 | 0.089 | 0.104 |
| QF25 | 2.54 | 3.30 | 2.54 | 2.90 | 2.54 | 3.30 | 2.54 | 3.30 |
| | 0.100 | 0.130 | 0.100 | 0.114 | 0.100 | 0.130 | 0.100 | 0.130 |
| QF50 | 2.67 | 4.60 | 1.52 | 2.29 | 2.67 | 4.60 | 2.67 | 3.56 |
| | 0.105 | 0.181 | 0.060 | 0.090 | 0.105 | 0.181 | 0.105 | 0.140 |
| QF100 | 4.57 | 5.36 | 5.62 | 8.13 | 5.62 | 8.13 | 5.62 | 8.13 |
| | 0.180 | 0.211 | 0.221 | 0.320 | 0.221 | 0.320 | 0.221 | 0.320 |
| QF175 | 6.43 | 7.44 | 6.43 | 7.98 | 6.43 | 7.98 | 6.43 | 7.98 |
| | 0.253 | 0.293 | 0.253 | 0.314 | 0.253 | 0.314 | 0.253 | 0.314 |
| QF250 | 4.32 | 5.31 | 4.32 | 5.31 | 4.32 | 5.31 | 4.32 | 5.31 |
| | 0.170 | 0.209 | 0.170 | 0.209 | 0.170 | 0.209 | 0.170 | 0.209 |
| QF500 | 4.98 | 6.35 | N/A | N/A | 4.98 | 8.51 | 4.98 | 8.51 |
| | 0.196 | 0.250 | | | 0.196 | 0.335 | 0.196 | 0.335 |
| QF1000 | 6.02 | 8.86 | N/A | N/A | 6.02 | 8.86 | N/A | N/A |
| | 0.237 | 0.349 | | | 0.237 | 0.349 | | |
| QF1890 | 6.35 | 8.81 | N/A | N/A | 7.32 | 10.08 | N/A | N/A |
| | 0.250 | 0.347 | | | 0.288 | 0.397 | | |
| QF3150 | 4.24 | 7.85 | N/A | N/A | 4.24 | 7.85 | N/A | N/A |
| | 0.167 | 0.309 | | | 0.167 | 0.309 | | |
| QF10260 | 5.99 | 10.77 | N/A | N/A | 5.99 | 10.77 | N/A | N/A |
| | 0.236 | 0.424 | | | 0.236 | 0.424 | | |

Standard Coupling Installation

Table 13. QUICK FLEX Standard Coupling Misalignment Tolerances

| Coupling Series | Radial Misalignment Tolerance | Axial Misalignment Tolerance | Angular Misalignment Tolerance |
|-----------------|-------------------------------|------------------------------|--------------------------------|
| | mm in | mm in | |
| QF5 | 0.51 | 1.98 | 2° |
| | 0.020 | 0.078 | |
| QF15 | 0.99 | 2.95 | 2° |
| | 0.039 | 0.116 | |
| QF25 | 0.99 | 2.95 | 2° |
| | 0.039 | 0.116 | |
| QF50 | 0.97 | 2.95 | 2° |
| | 0.038 | 0.116 | |
| QF100 | 1.47 | 3.96 | 2° |
| | 0.058 | 0.156 | |
| QF175 | 1.47 | 4.45 | 1.3° |
| | 0.058 | 0.175 | |
| QF250 | 1.47 | 5.94 | 1.3° |
| | 0.058 | 0.234 | |
| QF500 | 1.47 | 5.94 | 1° |
| | 0.058 | 0.234 | |
| QF1000 | 1.47 | 5.94 | 1° |
| | 0.058 | 0.234 | |
| QF1890 | 1.47 | 7.92 | 1° |
| | 0.058 | 0.312 | |
| QF3150 | 1.98 | 7.92 | 1° |
| | 0.078 | 0.312 | |
| QF10260 | 1.98 | 7.92 | 1° |
| | 0.078 | 0.312 | |

Table 14. QUICK FLEX Standard Coupling Maximum RPM Ratings

| Coupling Series | High-Speed Cover | Low-Speed Split Cover | High-Speed Split Cover | High-Performance Split Cover |
|-----------------|------------------|-----------------------|------------------------|------------------------------|
| | RPM | RPM | RPM | RPM |
| QF5 | 12000 | N/A | N/A | N/A |
| QF15 | 9000 | 400 | 9000 | 9000 |
| QF25 | 7000 | 375 | 7000 | 7000 |
| QF50 | 6000 | 350 | 6000 | 6000 |
| QF100 | 4800 | 300 | 4800 | 4800 |
| QF175 | 4200 | 250 | 4200 | 4200 |
| QF250 | 3800 | 200 | 3800 | 3800 |
| QF500 | 3400 | N/A | 3400 | 3400 |
| QF1000 | 3000 | N/A | 3000 | N/A |
| QF1890 | 2400 | N/A | 2400 | N/A |
| QF3150 | 2000 | N/A | 2000 | N/A |
| QF10260 | 1200 | N/A | 1200 | N/A |

Note: ■ Maximum RPM ratings are for off-the-shelf QUICK FLEX couplings. If your application requires higher RPM ratings, the couplings should be dynamically balanced.

Single-Ended Spacer Coupling Installation

Please complete the following steps to install QUICK FLEX single-ended spacer couplings.

You should have the following pieces before starting the job:

- One coupling hub
- One flanged hub
- One spacer body
- One insert
- One cover with included hardware

Note: It is critical to identify what style cover you are using, as this will change the hardware included, as well as the installation procedure. A mismatch between the coupling and the application may result in less than optimal performance.

There are four types of covers (fig. 7):

- **High-speed cover:** QF5 through QF175 use a standard snap ring to secure cover in place. QF250 and larger use eight bolts with lock washers.
- **Low-speed split cover:** This cover is free-floating and is located outside the shoulders of the two hubs. All sizes come with four bolts for securing the two halves together around the insert.
- **High-speed split cover:** This cover will be supplied in four pieces to fit over the spacer body. QF15 through QF250 use eight bolts around the rim to secure the two halves together, QF500 through QF1890 use 16 bolts, and QF3150 and larger use 20 bolts. QF250 and larger use eight bolts with lock washers to secure the cover to the hub.
- **High-performance split cover:** This cover is free-floating and is located on the insert with an internal radial groove. All sizes come with four socket-head cap screws for securing the two halves together around the insert.

Installation

1. The QUICK FLEX single-ended spacer coupling should be oriented with the flanged hub on the drive shaft and the coupling hub with insert on the driven shaft (fig. 8).
2. Check the bore size of the coupling hub and flanged hub to the shafts. Ensure that they are the correct bore size to fit the application.
3. If the coupling does not fit easily, clean and deburr the shafts.
4. Identify cover style:
 - e. **If using a high-speed cover,** it should be placed on one of the shafts. If cover uses a snap ring, slide the snap ring down the shaft, then slide the cover onto shaft with the larger opening facing the shaft separation.
 - f. **If using a low-speed or high-performance split cover,** leave cover aside and continue to step 5.
 - g. **If using a high-speed split cover,** QF250 and larger, use bolts and washers to secure in place. In some instances, one or both vertically split pieces cover halves will also be split horizontally. The horizontally split half should be placed on the spacer body side. If both halves are split then splits should be aligned 90 degrees from each other when bolted together. Do not bolt to coupling hub until installation is complete.
5. Install the coupling hub. It should be mounted so the end of the shaft is flush with surface "A" as shown in fig. 8. It is acceptable for the shaft to extend past "A" as long as it is not past the teeth shown as "B."
6. Install the flanged hub using the spacer body and insert to locate the flanged hub on the drive shaft. This will set the hubs at the minimum hub gap (G_{Min}) dimension when the insert is tight between the coupling hub and spacer body, ensuring proper clearance. For specific G_{Min} and G_{Max} dimensions see table 16.

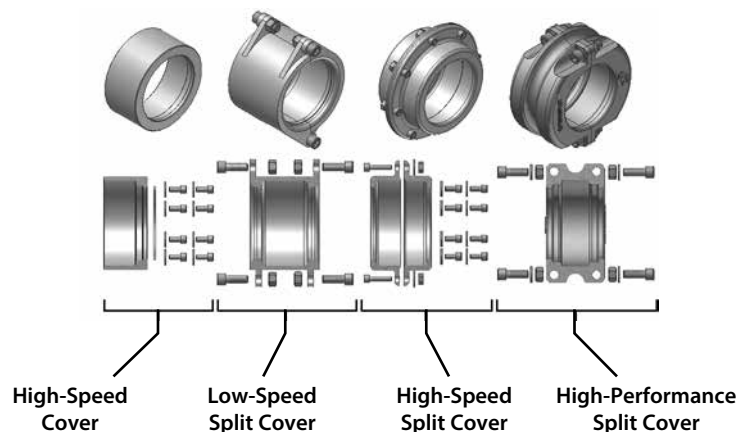


Fig. 7. QUICK FLEX cover types and included hardware.

Single-Ended Spacer Coupling Installation

7. Tighten the flanged hub and coupling hub securely to the shafts using the set screws.
8. Check coupling for misalignment (table 17) and align as necessary.
9. Install the cover:
 - a. **High-speed cover:** Slide the cover over the coupling hub and insert until fully rested against the shoulder of the coupling hub. QF5 through QF175 use standard snap rings to hold the cover in place. QF250 and larger couplings use eight bolts and washers. Use the included hardware to secure the cover.
 - b. **Low-speed or high-performance split cover:** Place each half over the insert and secure using the four bolt/washer/nut hardware combinations supplied. For the high-performance split cover bolt tightening torque ratings, see table 15.
 - c. **High-speed split cover:** Match the four pieces into two complete cover halves using the flange face detail to distinguish the two halves. For QF250 and larger, make sure the cover half with the eight holes for mounting to the coupling hub is on the coupling hub side, not the spacer side. Bolt the four pieces together using the supplied hardware, ensuring the splits in each half are rotated 90 degrees relative to each other. Install the bolts to secure the cover to the coupling hub.
10. Ensure the four spacer body bolts through the flange are tight along with all other bolts and set screws.

Note: Standard hubs are supplied with a clearance fit and should slide onto the shaft without excessive force. If the hubs have been ordered with interference fit, then heat the coupling halves to approximately 300° C (572° F) before installing on shafts. If not heated properly, the couplings will not fit on the hub properly.

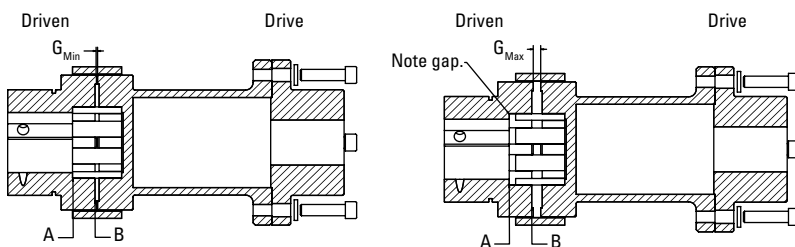


Fig. 8. Proper shaft-to-hub engagement.

Table 15. High-Performance Split Cover tightening torque

| Coupling Series | Bolts | Tightening Torque |
|-----------------|----------------|-------------------|
| | mm | Nm ft-lbs |
| QF15HPCOVER | (4) M6 X 25MM | 10.8 8 |
| QF25HPCOVER | (4) M10 X 35MM | 40.7 30 |
| QF50HPCOVER | (4) M12 X 45MM | 101.7 75 |
| QF100HPCOVER | (4) M12 X 60MM | 101.7 75 |
| QF175HPCOVER | (4) M16 X 65MM | 169.5 125 |
| QF250HPCOVER | (4) M20 X 60MM | 203.4 150 |
| QF500HPCOVER | (4) M20 X 60MM | 203.4 150 |

Revolutions Per Minute (RPM) and Balance

The QUICK FLEX coupling is machined on all surfaces and thus its dynamic balance is good. If the coupling is run at a high speed, it is important that the key used to attach the coupling hubs is the same length as the coupling hub. The set screws should also be changed to full length to fill the hole. Please refer to table 18 for maximum RPM ratings.

WARNING

Failure to observe the following warnings could create a risk of death or serious injury.

Contact with moving parts and/or rotating shafts poses a risk of serious injury. Proper guards in accordance with OSHA and American Society of Mechanical Engineers standards must be installed on all power transmission equipment. Power transmission equipment should not be started if proper guarding is not in place. Observe all required lock out/tag out procedures when servicing power transmission equipment.

Note: Shaft should penetrate to base of teeth and hubs should be set at G_{Min}. Otherwise, the coupling may not deliver maximum torque.

Single-Ended Spacer Coupling Installation

Table 16. QUICK FLEX Single-Ended Spacer Coupling Hub Gap (G) Dimensions

| Coupling Series | High-Speed Cover | | Low-Speed Split Cover | | High-Speed Split Cover | | High-Performance Split Cover | |
|-----------------|------------------|------------------|-----------------------|------------------|------------------------|------------------|------------------------------|------------------|
| | G _{Min} | G _{Max} | G _{Min} | G _{Max} | G _{Min} | G _{Max} | G _{Min} | G _{Max} |
| | mm in | mm in | mm in | mm in | mm in | mm in | mm in | mm in |
| QF5 | 1.60 | 2.34 | N/A | N/A | N/A | N/A | N/A | N/A |
| | 0.063 | 0.092 | | | | | | |
| QF15 | 2.27 | 2.64 | 2.01 | 2.51 | 2.27 | 2.64 | 2.27 | 2.64 |
| | 0.089 | 0.104 | 0.079 | 0.099 | 0.089 | 0.104 | 0.089 | 0.104 |
| QF25 | 2.54 | 3.30 | 2.54 | 2.90 | 2.54 | 3.30 | 2.54 | 3.30 |
| | 0.100 | 0.130 | 0.100 | 0.114 | 0.100 | 0.130 | 0.100 | 0.130 |
| QF50 | 2.67 | 4.60 | 1.52 | 2.29 | 2.67 | 4.60 | 2.67 | 3.56 |
| | 0.105 | 0.181 | 0.060 | 0.090 | 0.105 | 0.181 | 0.105 | 0.140 |
| QF100 | 4.57 | 5.36 | 5.62 | 8.13 | 5.62 | 8.13 | 5.62 | 8.13 |
| | 0.180 | 0.211 | 0.221 | 0.320 | 0.221 | 0.320 | 0.221 | 0.320 |
| QF175 | 6.43 | 7.44 | 6.43 | 7.98 | 6.43 | 7.98 | 6.43 | 7.98 |
| | 0.253 | 0.293 | 0.253 | 0.314 | 0.253 | 0.314 | 0.253 | 0.314 |
| QF250 | 4.32 | 5.31 | 4.32 | 5.31 | 4.32 | 5.31 | 4.32 | 5.31 |
| | 0.170 | 0.209 | 0.170 | 0.209 | 0.170 | 0.209 | 0.170 | 0.209 |
| QF500 | 4.98 | 6.35 | N/A | N/A | 4.98 | 8.51 | 4.98 | 8.51 |
| | 0.196 | 0.250 | | | 0.196 | 0.335 | 0.196 | 0.335 |
| QF1000 | 6.02 | 8.86 | N/A | N/A | 6.02 | 8.86 | N/A | N/A |
| | 0.237 | 0.349 | | | 0.237 | 0.349 | | |
| QF1890 | 6.35 | 8.81 | N/A | N/A | 7.32 | 10.08 | N/A | N/A |
| | 0.250 | 0.347 | | | 0.288 | 0.397 | | |
| QF3150 | 4.24 | 7.85 | N/A | N/A | 4.24 | 7.85 | N/A | N/A |
| | 0.167 | 0.309 | | | 0.167 | 0.309 | | |
| QF10260 | 5.99 | 10.77 | N/A | N/A | 5.99 | 10.77 | N/A | N/A |
| | 0.236 | 0.424 | | | 0.236 | 0.424 | | |

Single-Ended Spacer Coupling Installation

Table 17. QUICK FLEX Single-Ended Spacer Coupling Misalignment Tolerances

| Coupling Series | Radial Misalignment Tolerance | Axial Misalignment Tolerance | Angular Misalignment Tolerance |
|-----------------|-------------------------------|------------------------------|--------------------------------|
| | mm in | mm in | |
| QF5 | 0.51 | 1.98 | 2° |
| | 0.020 | 0.078 | |
| QF15 | 0.99 | 2.95 | 2° |
| | 0.039 | 0.116 | |
| QF25 | 0.99 | 2.95 | 2° |
| | 0.039 | 0.116 | |
| QF50 | 0.97 | 2.95 | 2° |
| | 0.038 | 0.116 | |
| QF100 | 1.47 | 3.96 | 2° |
| | 0.058 | 0.156 | |
| QF175 | 1.47 | 4.45 | 1.3° |
| | 0.058 | 0.175 | |
| QF250 | 1.47 | 5.94 | 1.3° |
| | 0.058 | 0.234 | |
| QF500 | 1.47 | 5.94 | 1° |
| | 0.058 | 0.234 | |
| QF1000 | 1.47 | 5.94 | 1° |
| | 0.058 | 0.234 | |
| QF1890 | 1.47 | 7.92 | 1° |
| | 0.058 | 0.312 | |
| QF3150 | 1.98 | 7.92 | 1° |
| | 0.078 | 0.312 | |
| QF10260 | 1.98 | 7.92 | 1° |
| | 0.078 | 0.312 | |

Table 18. QUICK FLEX SINGLE-ENDED SPACER COUPLING Maximum RPM Ratings

| Coupling Series | High-Speed Cover | Low-Speed Split Cover | High-Speed Split Cover | High-Performance Split Cover |
|-----------------|------------------|-----------------------|------------------------|------------------------------|
| | RPM | RPM | RPM | RPM |
| QF5 | 12000 | N/A | N/A | N/A |
| QF15 | 9000 | 400 | 9000 | 9000 |
| QF25 | 7000 | 375 | 7000 | 7000 |
| QF50 | 6000 | 350 | 6000 | 6000 |
| QF100 | 4800 | 300 | 4800 | 4800 |
| QF175 | 4200 | 250 | 4200 | 4200 |
| QF250 | 3800 | 200 | 3800 | 3800 |
| QF500 | 3400 | N/A | 3400 | 3400 |
| QF1000 | 3000 | N/A | 3000 | 3000 |
| QF1890 | 2400 | N/A | 2400 | 2400 |
| QF3150 | 2000 | N/A | 2000 | 2000 |
| QF10260 | 1200 | N/A | 1200 | 1200 |

Note: ■ Maximum RPM ratings are for off-the-shelf QUICK FLEX couplings. If your application requires higher RPM ratings, the couplings should be dynamically balanced.

Double-Ended Spacer Coupling Installation

Please complete the following steps to install QUICK FLEX double-ended spacer couplings.

You should have the following pieces before starting the job:

- Two hubs
- One spacer body
- Two inserts
- Two covers with included hardware

Note: It is critical to identify what style cover you are using, as this will change the hardware included, as well as the installation procedure. A mismatch between the coupling and the application may result in less than optimal performance.

There are four types of covers (fig. 9):

- **High-speed cover:** QF5 through QF175 use a standard snap ring to secure cover in place. QF250 and larger use eight bolts with lock washers.
- **Low-speed split cover:** This cover is free-floating and is located outside the shoulders of the two hubs. All sizes come with four bolts for securing the two halves together around the insert.
- **High-speed split cover:** This cover will be supplied in four pieces to fit over the spacer body. QF15 through QF250 use eight bolts around the rim to secure the two halves together, QF500 through QF1890 use 16 bolts, and QF3150 and larger use 20 bolts. QF250 and larger use eight bolts with lock washers to secure the cover to each hub.
- **High-performance split cover:** This cover is free-floating and is located on the insert with an internal radial groove. All sizes come with four socket-head cap screws for securing the two halves together around the insert.

Installation

1. Check the bore size of the coupling halves and the shafts. Ensure that they are the correct bore size to fit the application.
2. If the coupling does not fit easily, clean and deburr the shafts.
3. Identify cover style:
 - a. **If using high-speed covers QF5 through QF175,** slide one snap ring down each shaft, then slide one cover onto each shaft with the larger opening facing the shaft separation. For QF250 and larger, slide one cover onto each shaft with the larger opening facing the shaft separation.
 - b. **If using low-speed or high-performance split covers,** leave covers aside and continue to step 4.
 - c. **If using high-speed split covers, QF250 and larger,** use bolts and washers to secure in place. In some instances, one or both vertically split pieces cover halves will also be split horizontally. The horizontally split half should be placed on the spacer body side. If both halves are split, then splits should be aligned 90 degrees from each other when bolted together. Do not bolt to coupling hub until installation is complete.

Note: Standard hubs are supplied with a clearance fit and should slide onto the shaft without excessive force. If the hubs have been ordered with interference fit, then heat the coupling halves to approximately 300° C (572° F) before installing on shafts. If not heated properly, the couplings will not fit on the hub properly.

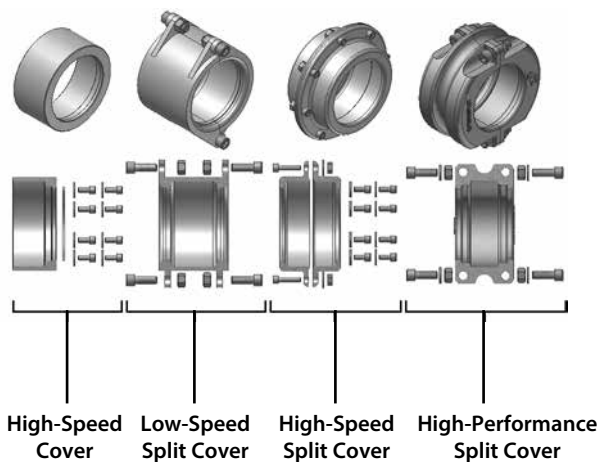


Fig. 9. QUICK FLEX cover types and included hardware.

⚠ WARNING

Failure to observe the following warnings could create a risk of death or serious injury.

Contact with moving parts and/or rotating shafts poses a risk of serious injury. Proper guards in accordance with OSHA and American Society of Mechanical Engineers standards must be installed on all power transmission equipment. Power transmission equipment should not be started if proper guarding is not in place. Observe all required lock out/tag out procedures when servicing power transmission equipment.

Double-Ended Spacer Coupling Installation

- Install the hubs. They should be mounted so the end of the shaft is flush with surface "A" as shown in fig. 10.
- Install the spacer body and inserts. Slide all three components (spacer body and two inserts) tight to one side and check the gap from the insert face to hub flange face shown as surface "A" in fig. 10. This should not exceed $[(2 \times G_{Max}) - (2 \times G_{Min})]$ using the appropriate minimum hub gap (G_{Min}) and the maximum hub gap (G_{Max}) from table 20.
- If this gap exceeds your calculation, adjust one or both hubs to set within specs, paying attention not to have the shaft end extend past surface "B" as shown in fig. 10.
- Tighten both hubs securely to the shafts using the set screws.
- Check coupling for misalignment (table 21) and align as necessary.
- Install the cover:
 - High-speed cover:** Slide the cover over the coupling hub and insert until fully rested against the shoulder of the coupling hub. Use the included hardware to secure the cover.
 - Low-speed or high-performance split cover:** Place each half over the insert and secure using the four bolt/washer/nut hardware combinations supplied. For the high-performance split cover bolt tightening torque ratings, see table 19.
 - High-speed split cover:** Match the four pieces into two complete cover halves using the flange face detail to distinguish the two halves. For QF250 and larger, make sure the cover half with the eight holes for mounting to the coupling hub is on the coupling hub side, not the spacer side. Bolt the four pieces together using the supplied hardware, ensuring the splits in each half are rotated 90 degrees relative to each other. Install bolts to secure the cover to the coupling hub.

Table 19. High-Performance Split Cover Tightening Torque

| Coupling Series | Bolts | Tightening Torque |
|-----------------|----------------|-------------------|
| | mm | Nm ft-lbs |
| QF15HPCOVER | (4) M6 X 25MM | 10.8 8 |
| QF25HPCOVER | (4) M10 X 35MM | 40.7 30 |
| QF50HPCOVER | (4) M12 X 45MM | 101.7 75 |
| QF100HPCOVER | (4) M12 X 60MM | 101.7 75 |
| QF175HPCOVER | (4) M16 X 65MM | 169.5 125 |
| QF250HPCOVER | (4) M20 X 60MM | 203.4 150 |
| QF500HPCOVER | (4) M20 X 60MM | 203.4 150 |

Revolutions Per Minute (RPM) and Balance

The QUICK FLEX coupling is machined on all surfaces and thus its dynamic balance is good. If the coupling is run at a high speed, it is important that the key used to attach the coupling hubs is the same length as the coupling hub. The set screws should also be changed to full length to fill the hole. Please refer to table 22 for maximum RPM ratings.

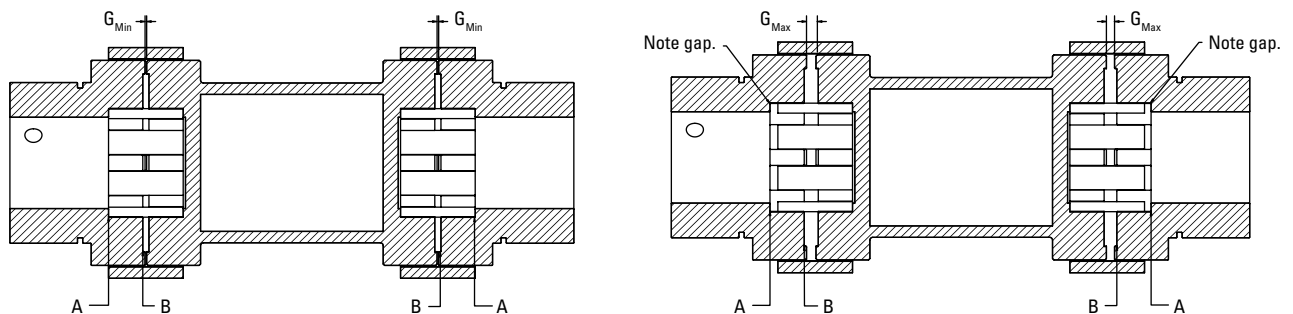


Fig. 10. Proper shaft-to-hub engagement.

Double-Ended Spacer Coupling Installation

Table 20. QUICK FLEX Double-Ended Spacer Coupling Hub Gap (G) Dimensions

| Coupling Series | High-Speed Cover | | Low-Speed Split Cover | | High-Speed Split Cover | | High-Performance Split Cover | |
|-----------------|------------------|------------------|-----------------------|------------------|------------------------|------------------|------------------------------|------------------|
| | G _{Min} | G _{Max} | G _{Min} | G _{Max} | G _{Min} | G _{Max} | G _{Min} | G _{Max} |
| | mm in | mm in | mm in | mm in | mm in | mm in | mm in | mm in |
| QF5 | 1.60 | 2.34 | N/A | N/A | N/A | N/A | N/A | N/A |
| | 0.063 | 0.092 | | | | | | |
| QF15 | 2.27 | 2.64 | 2.01 | 2.51 | 2.27 | 2.64 | 2.27 | 2.64 |
| | 0.089 | 0.104 | 0.079 | 0.099 | 0.089 | 0.104 | 0.089 | 0.104 |
| QF25 | 2.54 | 3.30 | 2.54 | 2.90 | 2.54 | 3.30 | 2.54 | 3.30 |
| | 0.100 | 0.130 | 0.100 | 0.114 | 0.100 | 0.130 | 0.100 | 0.130 |
| QF50 | 2.67 | 4.60 | 1.52 | 2.29 | 2.67 | 4.60 | 2.67 | 3.56 |
| | 0.105 | 0.181 | 0.060 | 0.090 | 0.105 | 0.181 | 0.105 | 0.140 |
| QF100 | 4.57 | 5.36 | 5.62 | 8.13 | 5.62 | 8.13 | 5.62 | 8.13 |
| | 0.180 | 0.211 | 0.221 | 0.320 | 0.221 | 0.320 | 0.221 | 0.320 |
| QF175 | 6.43 | 7.44 | 6.43 | 7.98 | 6.43 | 7.98 | 6.43 | 7.98 |
| | 0.253 | 0.293 | 0.253 | 0.314 | 0.253 | 0.314 | 0.253 | 0.314 |
| QF250 | 4.32 | 5.31 | 4.32 | 5.31 | 4.32 | 5.31 | 4.32 | 5.31 |
| | 0.170 | 0.209 | 0.170 | 0.209 | 0.170 | 0.209 | 0.170 | 0.209 |
| QF500 | 4.98 | 6.35 | N/A | N/A | 4.98 | 8.51 | 4.98 | 8.51 |
| | 0.196 | 0.250 | | | 0.196 | 0.335 | 0.196 | 0.335 |
| QF1000 | 6.02 | 8.86 | N/A | N/A | 6.02 | 8.86 | N/A | N/A |
| | 0.237 | 0.349 | | | 0.237 | 0.349 | | |
| QF1890 | 6.35 | 8.81 | N/A | N/A | 7.32 | 10.08 | N/A | N/A |
| | 0.250 | 0.347 | | | 0.288 | 0.397 | | |
| QF3150 | 4.24 | 7.85 | N/A | N/A | 4.24 | 7.85 | N/A | N/A |
| | 0.167 | 0.309 | | | 0.167 | 0.309 | | |
| QF10260 | 5.99 | 10.77 | N/A | N/A | 5.99 | 10.77 | N/A | N/A |
| | 0.236 | 0.424 | | | 0.236 | 0.424 | | |

Double-Ended Spacer Coupling Installation

Table 21. QUICK FLEX Double-Ended Spacer Coupling Misalignment Tolerances

| Coupling Series | Radial Misalignment Tolerance | Axial Misalignment Tolerance | Angular Misalignment Tolerance |
|-----------------|-------------------------------|------------------------------|--------------------------------|
| | mm in | mm in | |
| QF5 | 1.02 | 3.96 | 4° |
| | 0.040 | 0.156 | |
| QF15 | 1.98 | 5.89 | 4° |
| | 0.078 | 0.232 | |
| QF25 | 1.98 | 5.89 | 4° |
| | 0.078 | 0.232 | |
| QF50 | 2.95 | 5.89 | 4° |
| | 0.116 | 0.232 | |
| QF100 | 2.95 | 7.93 | 4° |
| | 0.116 | 0.312 | |
| QF175 | 2.95 | 8.89 | 2.6° |
| | 0.116 | 0.350 | |
| QF250 | 2.95 | 11.89 | 2.6° |
| | 0.116 | 0.468 | |
| QF500 | 2.95 | 11.89 | 2° |
| | 0.116 | 0.468 | |
| QF1000 | 2.95 | 11.89 | 2° |
| | 0.116 | 0.468 | |
| QF1890 | 2.95 | 15.85 | 2° |
| | 0.116 | 0.624 | |
| QF3150 | 3.96 | 15.85 | 2° |
| | 0.156 | 0.624 | |
| QF10260 | 3.96 | 15.85 | 2° |
| | 0.156 | 0.624 | |

Table 22. QUICK FLEX Double-Ended Spacer Maximum RPM Ratings

| Coupling Series | High-Speed Cover | Low-Speed Split Cover | High-Speed Split Cover | High-Performance Split Cover |
|-----------------|------------------|-----------------------|------------------------|------------------------------|
| | RPM | RPM | RPM | RPM |
| QF5 | N/A | N/A | N/A | N/A |
| QF15 | 4500 | 400 | 4500 | 4500 |
| QF25 | 4500 | 375 | 4500 | 4500 |
| QF50 | 4500 | 350 | 4500 | 4500 |
| QF100 | 4500 | 300 | 4500 | 4500 |
| QF175 | 3600 | 250 | 3600 | 3600 |
| QF250 | 3200 | 200 | 3200 | 3200 |
| QF500 | 3000 | N/A | 3000 | 3000 |
| QF1000 | 2500 | N/A | 2500 | 2500 |
| QF1890 | 2100 | N/A | 2100 | 2100 |
| QF3150 | 1800 | N/A | 1800 | 1800 |
| QF10260 | 1000 | N/A | 1100 | 1000 |

Note: ■ Maximum RPM ratings are for off-the-shelf QUICK FLEX couplings. If your application requires higher RPM ratings, the couplings should be dynamically balanced.

Nomenclature

Standard Couplings

Standard Coupling Nomenclature

A complete standard coupling unit consists of:

- Two hubs.
- One insert (see page 34).
- One cover (see pages 35-37).

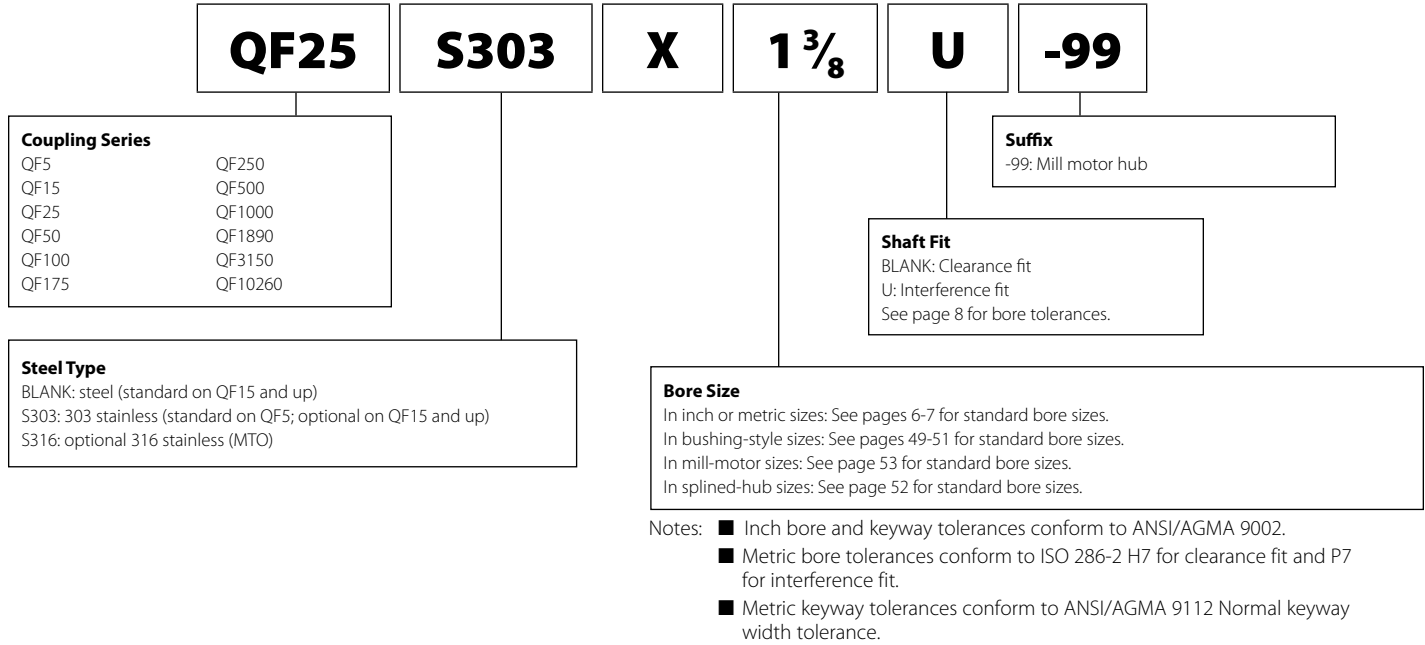


Fig. 11. Hubs.

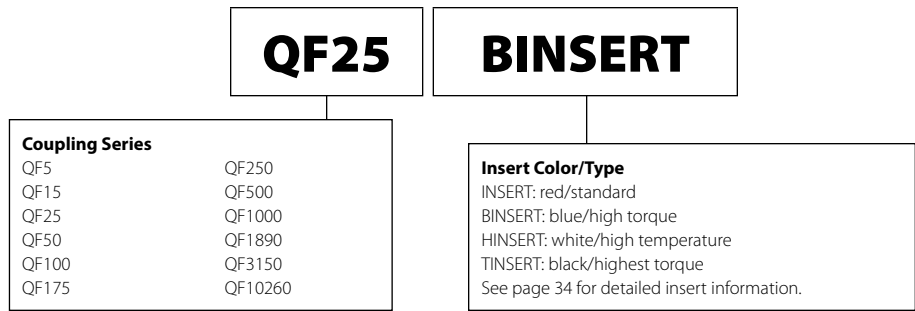


Fig.12. Inserts.

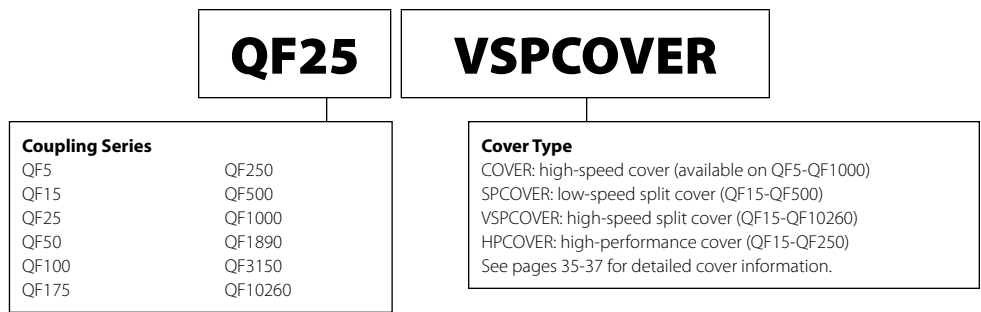


Fig. 13. Covers.

Nomenclature Spacer Couplings

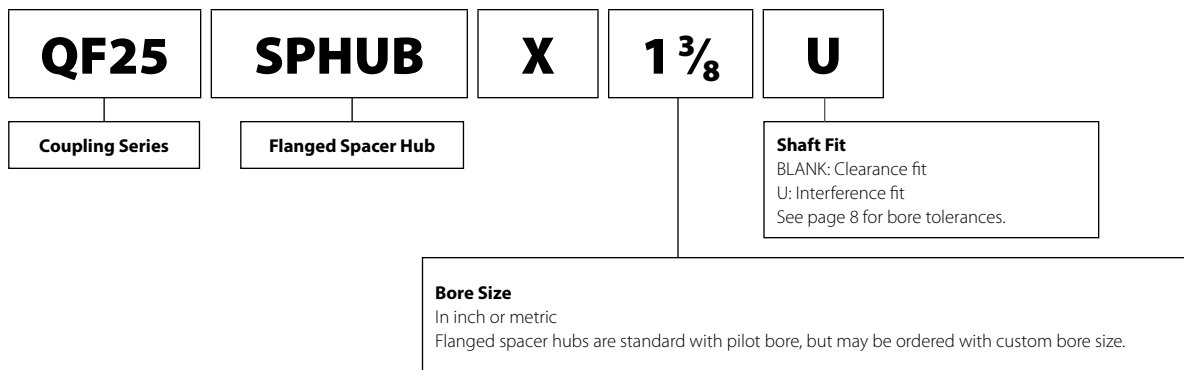
Spacer Coupling Nomenclature

A complete *single-ended* spacer coupling unit consists of:

- One standard hub (see page 32).
- One flanged spacer hub.
- One single-ended spacer body.
- One insert (see page 34).
- One cover (see pages 35-37).

A complete *double-ended* spacer coupling unit consists of:

- Two standard hubs (see page 32).
- One double-ended spacer body.
- Two inserts (see page 34).
- Two covers (see pages 35-37).



- Notes:
- Inch bore and keyway tolerances conform to ANSI/AGMA 9002.
 - Metric bore tolerances conform to ISO 286-2 H7 for clearance fit and P7 for interference fit.
 - Metric keyway tolerances conform to ANSI/AGMA 9112 Normal keyway width tolerance.

Fig. 14. Flanged spacer hubs.

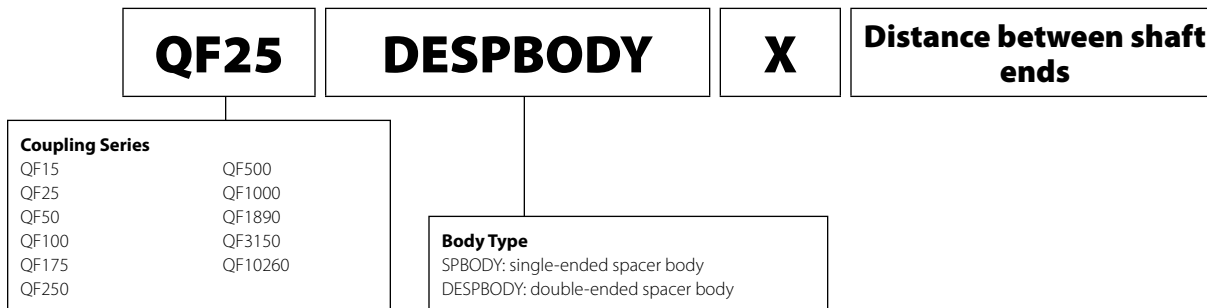


Fig. 15. Flanged spacer bodies.

Inserts and Covers

Coupling Inserts

Inserts and Covers

QUICK FLEX Coupling Inserts

QUICK FLEX flexible urethane coupling inserts are resistant to most chemicals (see page 18-19) and available in four materials for varying temperature and torque needs:

QUICK FLEX red insert (standard)

The standard QUICK FLEX red insert is made from a relatively soft urethane compound. This insert is well suited for a wide range of applications. The standard insert excels in vibration dampening and cushioning of shock loads and is best for reversing applications or applications with quick starting and stopping of high-inertial loads. This insert offers an operational temperature range of -50° C to 100° C (-60° F to 212° F) with a 48D durometer.

QUICK FLEX blue insert (high torque)

The QUICK FLEX blue insert is made from a relatively stiff urethane compound. This insert is well suited for applications with moderate to high torque. QUICK FLEX couplings with the blue insert deliver high torque while maintaining a degree of torsional softness and the ability to dampen vibration. They are excellent replacements for gear, grid or chain-style couplings. This insert offers an operational temperature range of -50° C to 100° C (-60° F to 212° F) with a 60D durometer.

QUICK FLEX black insert (highest torque)

The QUICK FLEX black insert offers the highest torque ratings of any of our inserts. This insert is well suited for very high torque applications, and QUICK FLEX couplings with a black insert are excellent replacements for gear-style couplings. This insert offers an operational temperature range of -50° C to 100° C (-60° F to 212° F) with a 68D durometer. When using a high-speed cover, the use of a black insert is not recommended. In an application where high torque is present, use a split cover option.

QUICK FLEX white insert (high temperature)

The QUICK FLEX white insert is made of a heat-resistant urethane compound for use in applications where heat is a concern. This insert offers an operational temperature range of -50° C to 177° C (-60° F to 350° F) with a 60D durometer.

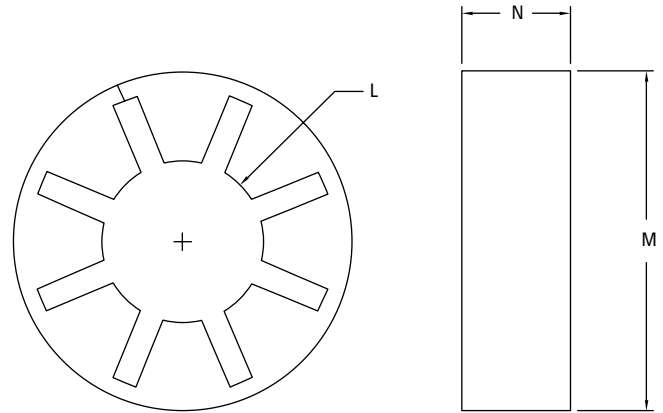


Fig. 16. QUICK FLEX insert.

Table 23. QUICK FLEX Insert Dimensions

| Coupling Series | L | M | N | Wt. |
|-----------------|--------------|--------------|--------------|-------------|
| | mm in | mm in | mm in | kg lbs |
| QF5 | 31.2 | 56.6 | 16.0 | 0.1 |
| | 1.23 | 2.23 | 0.63 | 0.2 |
| QF15 | 42.2 | 72.6 | 21.6 | 0.1 |
| | 1.66 | 2.86 | 0.85 | 0.2 |
| QF25 | 54.9 | 96.5 | 31.2 | 0.1 |
| | 2.16 | 3.80 | 1.23 | 0.2 |
| QF50 | 61.2 | 128.3 | 41.7 | 0.4 |
| | 2.41 | 5.05 | 1.64 | 0.9 |
| QF100 | 77.5 | 163.6 | 51.3 | 0.7 |
| | 3.05 | 6.44 | 2.02 | 1.5 |
| QF175 | 99.1 | 187.2 | 59.7 | 0.9 |
| | 3.90 | 7.37 | 2.35 | 2.0 |
| QF250 | 104.9 | 208.3 | 58.9 | 1.4 |
| | 4.13 | 8.20 | 2.32 | 3.0 |
| QF500 | 114.6 | 253.5 | 66.8 | 2.3 |
| | 4.51 | 9.98 | 2.63 | 5.0 |
| QF1000 | 157.2 | 287.0 | 75.2 | 2.7 |
| | 6.19 | 11.30 | 2.96 | 6.0 |
| QF1890 | 193.0 | 345.7 | 82.3 | 4.1 |
| | 7.60 | 13.61 | 3.24 | 9.0 |
| QF3150 | 232.4 | 404.6 | 93.2 | 5.9 |
| | 9.15 | 15.93 | 3.67 | 13.0 |
| QF10260 | 285.8 | 483.6 | 137.9 | 14.1 |
| | 11.25 | 19.04 | 5.43 | 31.1 |

Inserts and Covers

High-Speed Cover

QUICK FLEX High-Speed Cover

QUICK FLEX high-speed covers are designed for applications where low torque and/or high speed is present.

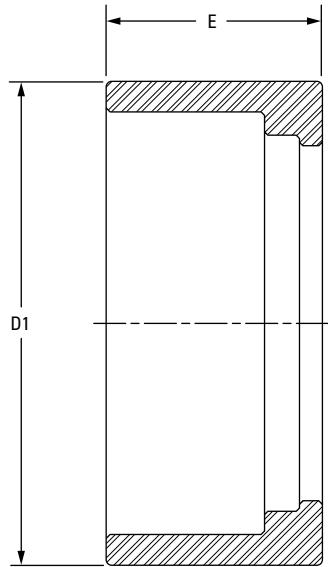


Fig. 17. High-Speed cover.

Table 24. QUICK FLEX High-Speed Cover Dimensions

| Cover Part No. | Maximum RPM | D1 | | E | |
|----------------|-------------|--------------|----|--------------|----|
| | | mm | in | mm | in |
| QF5COVER | 12000 | 63.2 | | 24.1 | |
| | | 2.49 | | 0.95 | |
| QF15COVER | 9000 | 80.3 | | 34.3 | |
| | | 3.16 | | 1.35 | |
| QF25COVER | 7000 | 106.9 | | 49.5 | |
| | | 4.21 | | 1.95 | |
| QF50COVER | 6000 | 139.2 | | 60.5 | |
| | | 5.48 | | 2.38 | |
| QF100COVER | 4800 | 177.8 | | 75.2 | |
| | | 7.00 | | 2.96 | |
| QF175COVER | 4200 | 203.2 | | 83.1 | |
| | | 8.00 | | 3.27 | |
| QF250COVER | 3800 | 225.6 | | 88.9 | |
| | | 8.88 | | 3.50 | |
| QF500COVER | 3400 | 273.6 | | 102.9 | |
| | | 10.77 | | 4.05 | |
| QF1000COVER | 3000 | 308.1 | | 124.0 | |
| | | 12.13 | | 4.88 | |
| QF1890COVER | 2400 | 365.3 | | 127.0 | |
| | | 14.38 | | 5.00 | |
| QF3150COVER | 2000 | 425.5 | | 139.7 | |
| | | 16.75 | | 5.50 | |
| QF10260COVER | 1800 | 510.5 | | 201.7 | |
| | | 20.10 | | 7.94 | |

Inserts and Covers High-Speed Split Cover

QUICK FLEX High-Speed Split Cover

QUICK FLEX High-Speed split covers are ideal in applications where high torque is combined with higher speeds while minimizing axial loading.

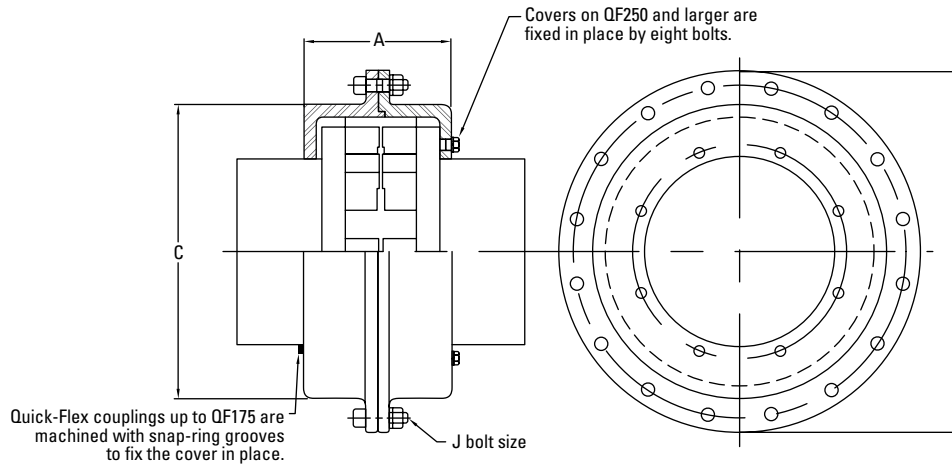


Fig. 18. High-Speed split cover.

Table 25. QUICK FLEX High-Speed Split Cover Dimensions

| Cover Part No. | Maximum RPM | A | B | C | J |
|-----------------|-------------|--------------|--------------|--------------|----------------------------------|
| | | mm in | mm in | mm in | mm |
| QF15VSPCOVER | 9000 | 45.2 | 119.4 | 85.9 | (8) M6 X 20MM |
| | | 1.78 | 4.70 | 3.38 | |
| QF25VSPCOVER | 7000 | 63.5 | 142.7 | 107.7 | (8) M6 X 20MM |
| | | 2.50 | 5.62 | 4.24 | |
| QF50VSPCOVER | 6000 | 87.9 | 193.6 | 141.7 | (8) M10 X 20MM |
| | | 3.46 | 7.62 | 5.58 | |
| QF100VSPCOVER | 4800 | 118.4 | 227.3 | 181.9 | (8) M10 X 35MM |
| | | 4.66 | 8.95 | 7.16 | |
| QF175VSPCOVER | 4200 | 124.0 | 250.2 | 204.2 | (8) M10 X 35MM |
| | | 4.88 | 9.85 | 8.04 | |
| QF250VSPCOVER | 3800 | 118.6 | 266.7 | 225.0 | (8) M10 X 35MM & (8) M10 X 35MM |
| | | 4.67 | 10.50 | 8.86 | |
| QF500VSPCOVER | 3400 | 149.4 | 342.9 | 273.1 | (12) M12 X 45MM & (8) M10 X 35MM |
| | | 5.88 | 13.50 | 10.75 | |
| QF1000VSPCOVER | 3000 | 157.7 | 387.4 | 314.5 | (16) M12 X 45MM & (8) M10 X 35MM |
| | | 6.21 | 15.25 | 12.38 | |
| QF1890VSPCOVER | 2800 | 185.9 | 450.9 | 374.7 | (16) M12 X 50MM & (8) M12 X 40MM |
| | | 7.32 | 17.75 | 14.75 | |
| QF3150VSPCOVER | 2000 | 188.5 | 497.6 | 431.3 | (20) M12 X 45MM & (8) M20 X 45MM |
| | | 7.42 | 19.59 | 16.98 | |
| QF10260VSPCOVER | 1200 | 275.6 | 619.3 | 523.2 | (20) M12 X 65MM & (8) M12 X 40MM |
| | | 10.85 | 24.38 | 20.60 | |

Note: ■ Available split horizontally upon request specified as HVSPCOVER.

Inserts and Covers

High-Speed Split Cover

Standard Couplings

QUICK FLEX Aluminum High-Performance (HP) Cover

QUICK FLEX aluminum high-performance covers are designed to minimize axial loading in all applications including high or low torque and high or low speed.

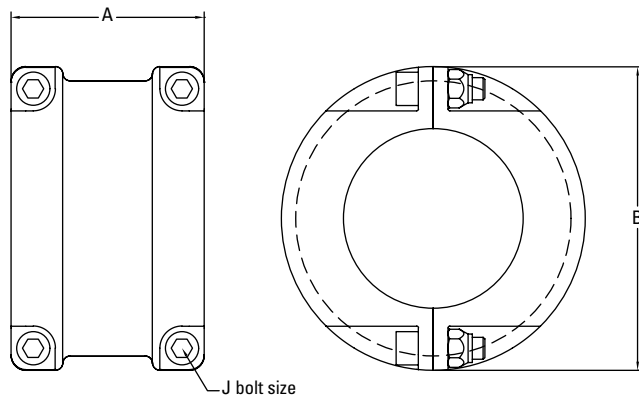


Fig. 19. Aluminum High-Performance cover.

Table 26. QUICK FLEX Aluminum High-Performance (HP) Cover Dimensions

| Cover Part No. | Maximum RPM | A | B | J |
|----------------|-------------|--------------|--------------|----------------|
| | | mm in | mm in | mm |
| QF15HPCOVER | 9000 | 49.0 | 101.3 | (4) M6 X 25MM |
| | | 1.93 | 3.99 | |
| QF25HPCOVER | 7000 | 66.3 | 135.6 | (4) M10 X 35MM |
| | | 2.61 | 5.32 | |
| QF50HPCOVER | 6000 | 76.7 | 185.0 | (4) M12 X 45MM |
| | | 3.02 | 7.28 | |
| QF100HPCOVER | 4800 | 151.4 | 197.1 | (4) M12 X 60MM |
| | | 5.96 | 7.76 | |
| QF175HPCOVER | 4200 | 156.7 | 216.4 | (4) M16 X 65MM |
| | | 6.17 | 8.52 | |
| QF250HPCOVER | 3800 | 166.1 | 261.4 | (4) M20 X 60MM |
| | | 6.54 | 10.29 | |
| QF500HPCOVER | 3400 | 201.2 | 305.3 | (4) M20 X 60MM |
| | | 7.92 | 12.02 | |

QUICK FLEX Low-Speed Split Cover

By minimizing axial loading, QUICK FLEX Low-Speed split covers excel in applications where there is a high amount of torque and low speeds.

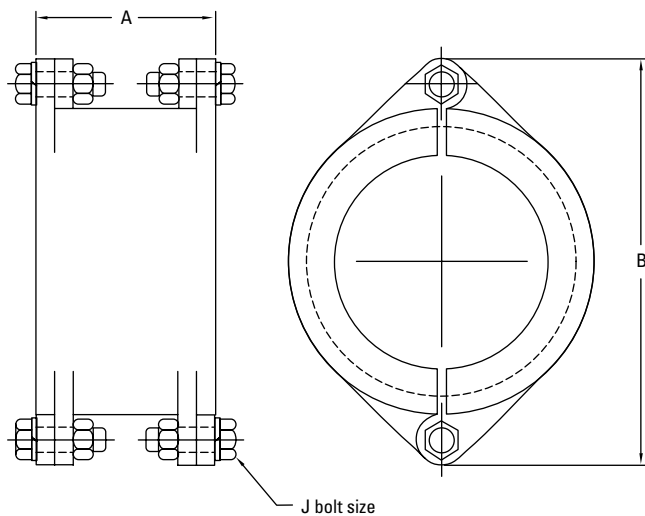


Fig. 20. Low-Speed split cover.

Table 27. QUICK FLEX Low-Speed Split-Cover Dimensions

| Cover Part No. | Maximum RPM | A | B | J |
|----------------|-------------|--------------|--------------|----------------|
| | | mm in | mm in | mm |
| QF15SPCOVER | 400 | 50.8 | 124.2 | (4) M8 X 25MM |
| | | 2.00 | 4.89 | |
| QF25SPCOVER | 375 | 78.0 | 145.0 | (4) M10 X 35MM |
| | | 3.07 | 5.71 | |
| QF50SPCOVER | 350 | 87.9 | 192.5 | (4) M12 X 35MM |
| | | 3.46 | 7.58 | |
| QF100SPCOVER | 300 | 118.4 | 231.9 | (4) M12 X 40MM |
| | | 4.66 | 9.13 | |
| QF175SPCOVER | 250 | 124.0 | 282.4 | (4) M16 X 50MM |
| | | 4.88 | 11.12 | |
| QF250SPCOVER | 200 | 130.3 | 304.8 | (4) M20 X 50MM |
| | | 5.13 | 12.00 | |

Standard Couplings With High-Speed Cover

Standard Coupling with High-Speed Cover

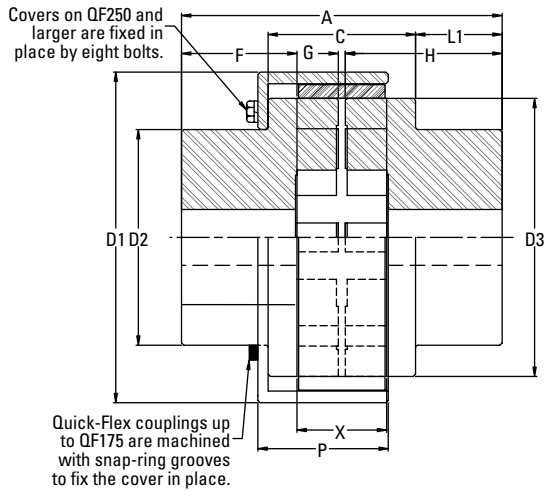


Fig. 21. Standard coupling with high-speed cover.

Table 28. QUICK FLEX Insert Continuous Torque Ratings

| Coupling Series | Red | Blue | White | Black ¹ |
|-----------------|--------------|--------------|--------------|--------------------|
| | Nm in-lbs | Nm in-lbs | Nm in-lbs | Nm in-lbs |
| QF5 | 43 | 93 | 93 | N/A |
| | 377 | 819 | 819 | |
| QF15 | 120 | 234 | 234 | N/A |
| | 1059 | 2075 | 2075 | |
| QF25 | 387 | 730 | 730 | N/A |
| | 3426 | 6461 | 6461 | |
| QF50 | 798 | 1582 | 1582 | N/A |
| | 7066 | 14002 | 14002 | |
| QF100 | 1602 | 3177 | 3177 | N/A |
| | 14178 | 28115 | 28115 | |
| QF175 | 2780 | 5325 | 5325 | N/A |
| | 24602 | 47123 | 47123 | |
| QF250 | 3513 | 6975 | 6975 | N/A |
| | 31091 | 61726 | 61726 | |
| QF500 | 6790 | 13051 | 13051 | N/A |
| | 60091 | 115497 | 115497 | |
| QF1000 | 9601 | 18418 | 18418 | N/A |
| | 84966 | 162997 | 162997 | |
| QF1890 | 10740 | 20409 | 20409 | N/A |
| | 95061 | 180639 | 180639 | |
| QF3150 | 11880 | 22401 | 22401 | N/A |
| | 105135 | 198252 | 198252 | |
| QF10260 | 23748 | 44736 | 44736 | N/A |
| | 210173 | 395913 | 395913 | |

Note: ■ 1 indicates: When using a high-speed cover, the use of a black insert is not recommended. In an application where high torque is present, use a Split Cover option. Contact your Lovejoy application engineer for maximum shaft distance.

Table 29. QUICK FLEX Standard Coupling with High-Speed Cover Dimensions

| Coupling Series | Pilot-Bore Diameter | Maximum Bore Size | | Maximum RPM | Continuous Torque ¹ | A | C | D1 | D2 | D3 | F | G _{Min} | G _{Max} | H | L1 | P | X | Wt. ² |
|-----------------|---------------------|-------------------|-------------|-------------|--------------------------------|-------|-------|-------|-------|-------|-------|------------------|------------------|-------|-------|-------|-------|------------------|
| | | Square Key | Shallow Key | | | | | | | | | | | | | | | kg lbs |
| | | in | mm in | | | | | | | | | | | | | | | mm in |
| QF5 | - | 25 | - | 12000 | 93 | 71.1 | 26.2 | 63.2 | 50.8 | 52.6 | 27.4 | 2.47 | 2.30 | 34.8 | 22.4 | 24.1 | 16.8 | 1.8 |
| | | 1 ¼ | - | | 819 | 2.80 | 1.03 | 2.49 | 2.00 | 2.07 | 1.08 | 0.097 | 0.092 | 1.37 | 0.88 | 0.95 | 0.66 | 4 |
| QF15 | 17/32 | 40 | - | 9000 | 234 | 89.9 | 32.5 | 80.3 | 58.7 | 64.5 | 34.0 | 1.71 | 2.80 | 44.5 | 29.0 | 34.3 | 22.4 | 2.3 |
| | | 1 5/8 | - | | 2075 | 3.54 | 1.28 | 3.16 | 2.31 | 2.55 | 1.34 | 0.067 | 0.110 | 1.75 | 1.14 | 1.35 | 0.88 | 5 |
| QF25 | 5/8 | 50 | - | 7000 | 730 | 123.4 | 50.8 | 106.9 | 81.0 | 85.6 | 46.0 | 2.83 | 5.20 | 60.7 | 36.1 | 49.5 | 30.7 | 5.0 |
| | | 2 3/8 | - | | 6461 | 4.86 | 2.00 | 4.21 | 3.19 | 3.37 | 1.81 | 0.111 | 0.205 | 2.39 | 1.42 | 1.95 | 1.21 | 11 |
| QF50 | 23/32 | 60 | - | 6000 | 1582 | 151.4 | 61.5 | 139.2 | 89.4 | 114.0 | 54.9 | 1.81 | 5.30 | 75.2 | 45.2 | 60.5 | 42.2 | 6.8 |
| | | 2 3/8 | - | | 14002 | 5.96 | 2.42 | 5.48 | 3.52 | 4.49 | 2.16 | 0.071 | 0.208 | 2.96 | 1.78 | 2.38 | 1.66 | 15 |
| QF100 | 15/16 | 75 | - | 4800 | 3177 | 179.6 | 88.4 | 177.8 | 108.0 | 150.4 | 62.5 | 4.35 | 7.40 | 86.4 | 44.7 | 75.2 | 55.6 | 16.8 |
| | | 3 | - | | 28115 | 7.07 | 3.48 | 7.00 | 4.25 | 5.92 | 2.46 | 0.171 | 0.290 | 3.40 | 1.76 | 2.96 | 2.19 | 37 |
| QF175 | 1 | 95 | - | 4200 | 5325 | 195.3 | 93.2 | 203.2 | 139.7 | 171.5 | 67.8 | 6.41 | 5.30 | 95.3 | 50.8 | 83.1 | 65.2 | 25.9 |
| | | 3 3/8 | - | | 47123 | 7.69 | 3.67 | 8.00 | 5.50 | 6.75 | 2.67 | 0.253 | 0.208 | 3.75 | 2.00 | 3.27 | 2.45 | 57 |
| QF250 | 1 1/2 | 105 | - | 3800 | 6975 | 216.2 | 100.6 | 225.6 | 147.1 | 190.0 | 78.7 | 4.13 | 5.80 | 107.1 | 59.2 | 88.9 | 63.2 | 32.3 |
| | | 4 1/8 | - | | 61726 | 8.51 | 3.96 | 8.88 | 5.79 | 7.48 | 3.10 | 0.163 | 0.228 | 4.21 | 2.33 | 3.50 | 2.49 | 71 |
| QF500 | 1 7/8 | 115 | - | 3400 | 13051 | 257.3 | 118.6 | 273.6 | 177.8 | 235.0 | 95.3 | 4.89 | 6.40 | 127.0 | 69.9 | 102.9 | 69.9 | 57.3 |
| | | 4 1/2 | - | | 115497 | 10.13 | 4.67 | 10.77 | 7.00 | 9.25 | 3.75 | 0.193 | 0.252 | 5.00 | 2.75 | 4.05 | 2.75 | 126 |
| QF1000 | 1 7/8 | 140 | - | 3000 | 18418 | 309.6 | 126.7 | 308.1 | 198.4 | 266.7 | 116.8 | 5.65 | 9.86 | 152.4 | 91.4 | 124.0 | 77.2 | 98.2 |
| | | 5 1/2 | 6 3/16 | | 162997 | 12.19 | 4.99 | 12.13 | 7.81 | 10.50 | 4.60 | 0.223 | 0.388 | 6.00 | 3.60 | 4.88 | 3.04 | 216 |
| QF1890 | 2 1/2 | 175 | - | 2400 | 20409 | 373.4 | 150.1 | 365.3 | 241.3 | 325.1 | 145.8 | 6.62 | 7.06 | 184.4 | 113.0 | 127.0 | 85.1 | 181.8 |
| | | 6 1/2 | 7 1/2 | | 180639 | 14.70 | 5.91 | 14.38 | 9.50 | 12.80 | 5.74 | 0.261 | 0.278 | 7.26 | 4.45 | 5.00 | 3.35 | 400 |
| QF3150 | 2 1/2 | 205 | - | 2000 | 22401 | 408.4 | 159.8 | 425.5 | 279.4 | 383.3 | 157.0 | 3.37 | 7.75 | 202.7 | 127.0 | 139.7 | 101.3 | 241.8 |
| | | 6 1/2 | 9 | | 198252 | 16.08 | 6.29 | 16.75 | 11.00 | 15.09 | 6.18 | 0.133 | 0.305 | 7.98 | 5.00 | 5.50 | 3.99 | 532 |
| QF10260 | 2 1/2 | 280 | - | 1800 | 44736 | 508.3 | 231.1 | 510.5 | 381.0 | 450.9 | 183.4 | 4.64 | 12.83 | 251.0 | 138.4 | 201.7 | 144.3 | 507.3 |
| | | 6 1/2 | 11 1/4 | | 395913 | 20.01 | 9.10 | 20.10 | 15.00 | 17.75 | 7.22 | 0.183 | 0.505 | 9.88 | 5.45 | 7.94 | 5.68 | 1116 |

Notes: ■ 1 indicates: When used with blue insert. See pages 10-11 for complete torque ratings.

■ 2 indicates: Weights shown are approximate weights of complete coupling assemblies including two pilot-bore hubs, cover and insert.

Standard Couplings With High-Speed Cover

Standard Coupling with High-Speed Split Cover

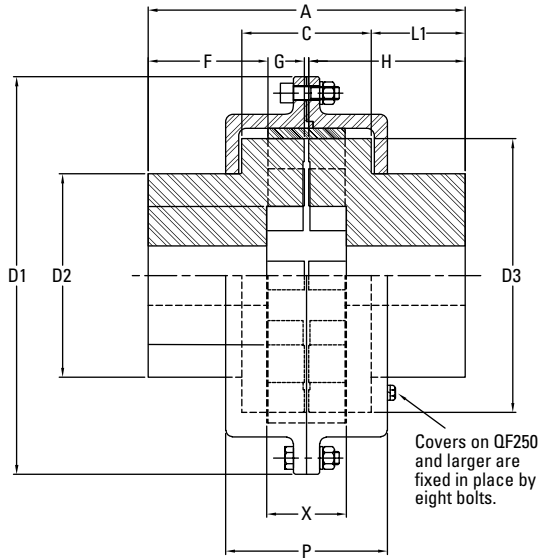


Fig. 22. Standard coupling with high-speed split cover.

Table 30. QUICK FLEX Insert Continuous Torque Ratings

| Coupling Series | Red | Blue | White | Black |
|-----------------|--------------|---------------|---------------|---------------|
| | Nm in-lbs | Nm in-lbs | Nm in-lbs | Nm in-lbs |
| QF15 | 150 | 293 | 293 | 452 |
| | 1324 | 2594 | 2594 | 4001 |
| QF25 | 484 | 913 | 913 | 1407 |
| | 4283 | 8077 | 8077 | 12449 |
| QF50 | 998 | 1978 | 1978 | 2992 |
| | 8833 | 17502 | 17502 | 26479 |
| QF100 | 2003 | 3971 | 3971 | 6061 |
| | 17723 | 35144 | 35144 | 53642 |
| QF175 | 3475 | 6656 | 6656 | 9973 |
| | 30753 | 58903 | 58903 | 88257 |
| QF250 | 4391 | 8718 | 8718 | 13438 |
| | 38864 | 77158 | 77158 | 118930 |
| QF500 | 8487 | 16313 | 16313 | 24794 |
| | 75114 | 144372 | 144372 | 219429 |
| QF1000 | 12001 | 23022 | 23022 | 35081 |
| | 106208 | 203746 | 203746 | 310466 |
| QF1890 | 19869 | 38937 | 38937 | 62597 |
| | 175840 | 344594 | 344594 | 553982 |
| QF3150 | 33942 | 64004 | 64004 | 98434 |
| | 300387 | 566434 | 566434 | 871139 |
| QF10260 | 67852 | 127817 | 127817 | 188794 |
| | 600494 | 1131179 | 1131179 | 1670826 |

Table 31. QUICK FLEX Standard Coupling with High-Speed Split Cover Dimensions

| Coupling Series | Pilot-Bore Diameter | Maximum Bore Size | | Max. RPM | Continuous Torque ¹ | A | C | D1 | D2 | D3 | F | G _{Min} | G _{Max} | H | L1 | P | X | Wt. ² |
|-----------------|---------------------|-------------------|-------------|----------|--------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|------------------|------------------|--------------|--------------|--------------|--------------|------------------|
| | | Square Key | Shallow Key | | | | | | | | | | | | | | | |
| | | in | mm | | | | | | | | | | | | | | | |
| QF15 | 17/32 | 40 | - | 9000 | 452 | 89.9 | 32.5 | 119.4 | 58.7 | 64.8 | 34.0 | 1.71 | 3.20 | 44.5 | 29.0 | 45.2 | 22.4 | 3.2 |
| | | 1 5/8 | - | | 4001 | 3.54 | 1.28 | 4.70 | 2.31 | 2.55 | 1.34 | 0.067 | 0.126 | 1.75 | 1.14 | 1.78 | 0.88 | 7 |
| QF25 | 5/8 | 50 | - | 7000 | 1407 | 123.4 | 50.8 | 142.7 | 81.0 | 85.6 | 46.0 | 2.83 | 3.60 | 60.7 | 36.1 | 63.5 | 30.7 | 5.9 |
| | | 2 1/8 | - | | 12449 | 4.86 | 2.00 | 5.62 | 3.19 | 3.37 | 1.81 | 0.111 | 0.140 | 2.39 | 1.42 | 2.5 | 1.21 | 13 |
| QF50 | 23/32 | 60 | - | 6000 | 2992 | 151.4 | 61.5 | 193.5 | 89.4 | 114.0 | 54.9 | 1.81 | 5.60 | 75.2 | 45.2 | 87.9 | 42.2 | 9.1 |
| | | 2 3/8 | - | | 26479 | 5.96 | 2.42 | 7.62 | 3.52 | 4.49 | 2.16 | 0.071 | 0.220 | 2.96 | 1.78 | 3.46 | 1.66 | 20 |
| QF100 | 15/16 | 75 | - | 4800 | 6061 | 179.6 | 88.4 | 227.3 | 108.0 | 150.4 | 62.5 | 4.35 | 9.70 | 86.4 | 44.7 | 118.4 | 55.6 | 21.3 |
| | | 3 | - | | 53642 | 7.07 | 3.48 | 8.95 | 4.25 | 5.92 | 2.46 | 0.171 | 0.380 | 3.40 | 1.76 | 4.66 | 2.19 | 47 |
| QF175 | 1 | 95 | - | 4200 | 9973 | 195.3 | 93.2 | 250.2 | 139.7 | 171.5 | 67.8 | 6.41 | 8.80 | 95.3 | 50.8 | 124.0 | 62.2 | 29.5 |
| | | 3 7/8 | - | | 88257 | 7.69 | 3.67 | 9.85 | 5.50 | 6.75 | 2.67 | 0.253 | 0.348 | 3.75 | 2.00 | 4.88 | 2.45 | 65 |
| QF250 | 1 1/2 | 105 | - | 3800 | 13438 | 216.2 | 100.6 | 266.7 | 147.1 | 190.0 | 78.7 | 4.13 | 6.60 | 106.9 | 59.2 | 118.6 | 63.2 | 36.7 |
| | | 4 1/8 | - | | 118930 | 8.51 | 3.96 | 10.50 | 5.79 | 7.48 | 3.10 | 0.163 | 0.258 | 4.21 | 2.33 | 4.67 | 2.49 | 80 |
| QF500 | 1 7/8 | 115 | - | 3400 | 24794 | 257.3 | 118.6 | 342.9 | 177.8 | 235.0 | 95.3 | 4.89 | 9.50 | 127.0 | 69.9 | 201.2 | 69.9 | 61.8 |
| | | 4 1/2 | - | | 219429 | 10.13 | 4.67 | 13.50 | 7.00 | 9.25 | 3.75 | 0.193 | 0.375 | 5.00 | 2.75 | 7.92 | 2.75 | 136 |
| QF1000 | 1 7/8 | 140 | - | 3000 | 35081 | 309.6 | 126.7 | 387.4 | 198.4 | 266.7 | 116.8 | 5.65 | 10.40 | 152.4 | 91.4 | 157.7 | 77.2 | 102.5 |
| | | 5 1/8 | 6 3/16 | | 310466 | 12.19 | 4.99 | 15.25 | 7.81 | 10.50 | 4.60 | 0.223 | 0.410 | 6.00 | 3.60 | 6.21 | 3.04 | 226 |
| QF1890 | 2 1/2 | 175 | - | 2400 | 62597 | 373.4 | 150.1 | 450.9 | 241.3 | 325.1 | 145.8 | 6.62 | 11.50 | 184.4 | 113.0 | 185.9 | 85.1 | 186.0 |
| | | 6 1/2 | 7 1/2 | | 553982 | 14.70 | 5.91 | 17.75 | 9.50 | 12.80 | 5.74 | 0.261 | 0.454 | 7.26 | 4.45 | 7.32 | 3.35 | 410 |
| QF3150 | 2 1/2 | 205 | - | 2000 | 98434 | 408.4 | 159.8 | 497.6 | 279.4 | 383.3 | 157.0 | 3.37 | 9.652 | 202.7 | 127.0 | 188.5 | 101.3 | 245.9 |
| | | 6 1/2 | 9 | | 871139 | 16.08 | 6.29 | 19.56 | 11.00 | 15.09 | 6.18 | 0.133 | 0.380 | 7.98 | 5.00 | 7.42 | 3.99 | 542 |
| QF10260 | 2 1/2 | 280 | - | 1200 | 188794 | 508.3 | 231.1 | 619.3 | 381.0 | 450.9 | 183.4 | 4.64 | 12.50 | 251.0 | 138.4 | 275.6 | 144.3 | 515.3 |
| | | 6 1/2 | 11 1/4 | | 1670826 | 20.01 | 9.10 | 24.38 | 15.00 | 17.75 | 7.22 | 0.183 | 0.492 | 9.88 | 5.45 | 10.85 | 5.68 | 1136 |

Notes: ■ 1 indicates: When used with black insert. See pages 12-13 for complete torque ratings.

■ 2 indicates: Weights shown are approximate weights of complete coupling assemblies including two pilot-bore hubs, cover and insert.

Standard Couplings

With Aluminum High-Performance (HP) Cover

Standard Coupling with Aluminum High-Performance (HP) Cover

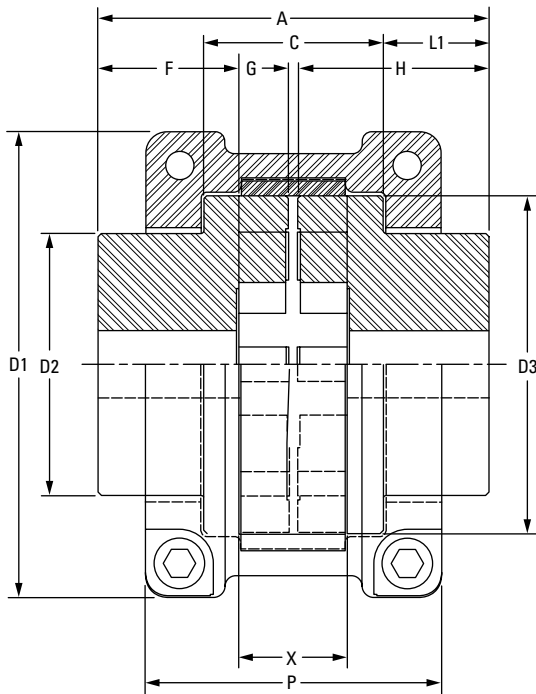


Fig. 23. Standard coupling with aluminum high-performance cover.

Table 32. QUICK FLEX Insert Continuous Torque Ratings

| Coupling Series | Red | Blue | White | Black |
|-----------------|--------------|--------------|--------------|--------------|
| | Nm in-lbs | Nm in-lbs | Nm in-lbs | Nm in-lbs |
| QF15 | 150 | 293 | 293 | 452 |
| | 1324 | 2594 | 2594 | 4001 |
| QF25 | 484 | 913 | 913 | 1407 |
| | 4283 | 8077 | 8077 | 12449 |
| QF50 | 998 | 1978 | 1978 | 2992 |
| | 8833 | 17502 | 17502 | 26479 |
| QF100 | 2003 | 3971 | 3971 | 6061 |
| | 17723 | 35144 | 35144 | 53642 |
| QF175 | 3475 | 6656 | 6656 | 9973 |
| | 30753 | 58903 | 58903 | 88257 |
| QF250 | 4391 | 8718 | 8718 | 13438 |
| | 38864 | 77158 | 77158 | 118930 |
| QF500 | 8487 | 16313 | 16313 | 24794 |
| | 75114 | 144372 | 144372 | 219429 |

Table 33. QUICK FLEX Standard Coupling with Aluminum High-Performance (HP) Cover Dimensions

| Coupling Series | Pilot-Bore Diameter | Maximum Bore Size | | Max. RPM | Continuous Torque ¹ | A | C | D1 | D2 | D3 | F | G _{Min} | G _{Max} | H | L1 | P | X | Wt. ² |
|-----------------|--------------------------------|-------------------------------|----------|--------------|--------------------------------|--------------|--------------|--------------|--------------|-------------|-------------|------------------|------------------|-------------|--------------|-------------|-------------|------------------|
| | | Square Key | | | | | | | | | | | | | | | | |
| | | in | mm in | | | | | | | | | | | | | | | |
| QF15 | 1 ⁷ / ₃₂ | 40 | 9000 | 452 | 89.9 | 32.5 | 101.3 | 58.7 | 64.8 | 34.0 | 1.71 | 5.60 | 44.5 | 29.0 | 49.0 | 22.4 | 2.3 | |
| | | 1 ⁵ / ₈ | | 4001 | 3.54 | 1.28 | 3.99 | 2.31 | 2.55 | 1.34 | 0.067 | 0.220 | 1.75 | 1.14 | 1.93 | 0.88 | 5 | |
| QF25 | 5 ⁵ / ₈ | 50 | 7000 | 1407 | 123.4 | 50.8 | 135.6 | 81.0 | 85.6 | 46.0 | 2.83 | 4.10 | 60.7 | 36.1 | 66.3 | 30.7 | 5.4 | |
| | | 2 ¹ / ₈ | | 12449 | 4.86 | 2.00 | 5.34 | 3.19 | 3.37 | 1.81 | 0.111 | 0.160 | 2.39 | 1.42 | 2.61 | 1.21 | 12 | |
| QF50 | 2 ³ / ₃₂ | 60 | 6000 | 2992 | 151.4 | 61.5 | 184.9 | 89.4 | 114.0 | 54.9 | 1.81 | 4.10 | 75.2 | 45.2 | 76.7 | 42.2 | 7.7 | |
| | | 2 ³ / ₈ | | 26479 | 5.96 | 2.42 | 7.28 | 3.52 | 4.49 | 2.16 | 0.071 | 0.160 | 2.96 | 1.78 | 3.02 | 1.66 | 17 | |
| QF100 | 1 ⁵ / ₁₆ | 75 | 4800 | 6061 | 179.6 | 88.4 | 197.1 | 108.0 | 150.4 | 62.5 | 4.35 | 9.40 | 86.4 | 44.7 | 151.4 | 55.6 | 18.1 | |
| | | 3 | | 53642 | 7.07 | 3.48 | 7.76 | 4.25 | 5.92 | 2.46 | 0.171 | 0.370 | 3.40 | 1.76 | 5.96 | 2.19 | 40 | |
| QF175 | 1 | 95 | 4200 | 9973 | 195.3 | 93.2 | 216.4 | 139.7 | 171.5 | 67.8 | 6.41 | 9.30 | 95.3 | 50.8 | 156.7 | 62.2 | 26.8 | |
| | | 3 ⁷ / ₈ | | 88257 | 7.69 | 3.67 | 8.52 | 5.50 | 6.75 | 2.67 | 0.253 | 0.368 | 3.75 | 2.00 | 6.17 | 2.45 | 59 | |
| QF250 | 1 ¹ / ₂ | 105 | 3800 | 13438 | 216.2 | 100.6 | 261.4 | 147.1 | 190.0 | 78.7 | 4.13 | 8.10 | 106.9 | 59.2 | 166.1 | 63.2 | 36.7 | |
| | | 4 ¹ / ₈ | | 118930 | 8.51 | 3.96 | 10.29 | 5.79 | 7.48 | 3.10 | 0.163 | 0.318 | 4.21 | 2.33 | 6.54 | 2.49 | 81 | |
| QF500 | 1 ⁷ / ₈ | 115 | 3400 | 24794 | 257.3 | 118.6 | 305.3 | 177.8 | 235.0 | 95.3 | 4.89 | 9.53 | 127.0 | 69.9 | 201.2 | 69.9 | 61.8 | |
| | | 4 ¹ / ₂ | | 219429 | 10.13 | 4.67 | 12.02 | 7.00 | 9.25 | 3.75 | 0.193 | 0.375 | 5.00 | 2.75 | 7.92 | 2.75 | 136 | |

Notes: ■ 1 indicates: When used with black insert. See pages 12-13 for complete torque ratings.

■ 2 indicates: Weights shown are approximate weights of complete coupling assemblies including two pilot-bore hubs, cover and insert.

Standard Couplings With Low-Speed Split Cover

Standard Coupling with Low-Speed Split Cover

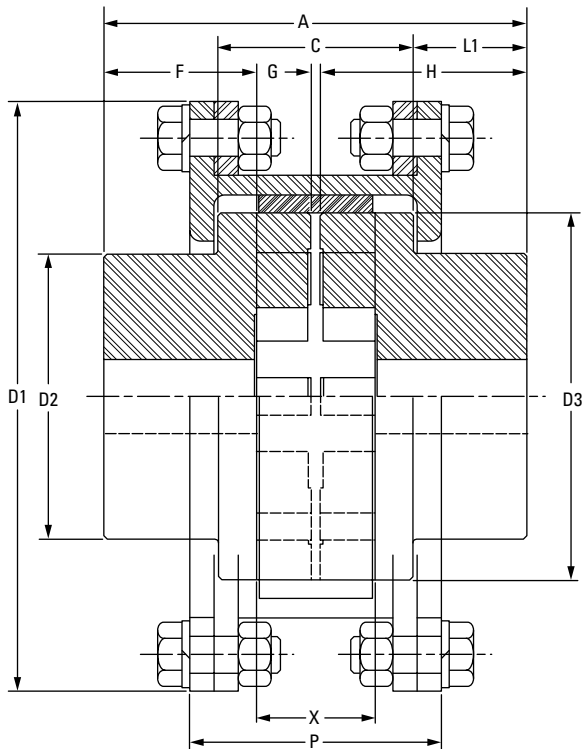


Fig. 24. Standard coupling with low-speed split cover.

Note: When using low-speed split cover, please refer to maximum RPM column in the table at the bottom of this page for allowable speed ratings.

Table 34. QUICK FLEX Insert Continuous Torque Ratings

| Coupling Series | Red | Blue | White | Black |
|-----------------|-------------|-------------|-------------|--------------|
| | Nm in-lbs | Nm in-lbs | Nm in-lbs | Nm in-lbs |
| QF15 | 150 | 293 | 293 | 452 |
| | 1324 | 2594 | 2594 | 4001 |
| QF25 | 484 | 913 | 913 | 1407 |
| | 4283 | 8077 | 8077 | 12449 |
| QF50 | 998 | 1978 | 1978 | 2992 |
| | 8833 | 17502 | 17502 | 26479 |
| QF100 | 2003 | 3971 | 3971 | 6061 |
| | 17723 | 35144 | 35144 | 53642 |
| QF175 | 3475 | 6656 | 6656 | 9973 |
| | 30753 | 58903 | 58903 | 88257 |
| QF250 | 4391 | 8718 | 8718 | 13438 |
| | 38864 | 77158 | 77158 | 118930 |

Table 35. QUICK FLEX Standard Coupling with Low-Speed Split Cover Dimensions

| Coupling Series | Pilot-Bore Diameter | Maximum Bore Size | Max. RPM | Continuous Torque ⁽¹⁾ | A | C | D1 | D2 | D3 | F | G _{Min} | G _{Max} | H | L1 | P | X | Wt. ⁽²⁾ |
|-----------------|---------------------|-------------------|----------|----------------------------------|--------------|-------------|--------------|--------------|--------------|-------------|------------------|------------------|--------------|-------------|--------------|-------------|--------------------|
| | in | mm in | | Nm in-lbs | mm in | mm in | mm in | mm in | mm in | mm in | mm in | mm in | mm in | mm in | mm in | mm in | mm in |
| QF15 | 17/32 | 40 | 400 | 452 | 89.9 | 32.5 | 124.2 | 58.7 | 64.8 | 34.0 | 1.71 | 2.50 | 44.5 | 29.0 | 50.8 | 22.4 | 2.7 |
| | | 1 5/8 | | 4001 | 3.54 | 1.28 | 4.89 | 2.31 | 2.55 | 1.34 | 0.067 | 0.099 | 1.75 | 1.14 | 2.00 | 0.88 | 6 |
| QF25 | 5/8 | 50 | 375 | 1407 | 123.4 | 50.8 | 145.0 | 81.0 | 85.6 | 46.0 | 2.83 | 3.40 | 60.7 | 36.1 | 78.0 | 30.7 | 5.9 |
| | | 2 1/8 | | 12449 | 4.86 | 2.00 | 5.71 | 3.19 | 3.37 | 1.81 | 0.111 | 0.133 | 2.39 | 1.42 | 3.07 | 1.21 | 13 |
| QF50 | 23/32 | 60 | 350 | 2992 | 151.4 | 61.5 | 192.5 | 89.4 | 114.0 | 54.9 | 1.81 | 2.60 | 75.2 | 45.2 | 87.9 | 42.2 | 8.6 |
| | | 2 3/8 | | 26479 | 5.96 | 2.42 | 7.58 | 3.52 | 4.49 | 2.16 | 0.071 | 0.101 | 2.96 | 1.78 | 3.46 | 1.66 | 19 |
| QF100 | 15/16 | 75 | 300 | 6061 | 179.6 | 88.4 | 231.9 | 108.0 | 150.4 | 62.5 | 4.35 | 9.70 | 86.4 | 44.7 | 118.4 | 55.6 | 20.0 |
| | | 3 | | 53642 | 7.07 | 3.48 | 9.13 | 4.25 | 5.92 | 2.46 | 0.171 | 0.380 | 3.40 | 1.76 | 4.66 | 2.19 | 44 |
| QF175 | 1 | 95 | 250 | 9973 | 195.3 | 93.2 | 282.4 | 139.7 | 171.5 | 67.8 | 6.41 | 9.50 | 95.3 | 50.8 | 124.0 | 62.2 | 32.7 |
| | | 3 7/8 | | 88257 | 7.69 | 3.67 | 11.12 | 5.50 | 6.75 | 2.67 | 0.253 | 0.375 | 3.75 | 2.00 | 4.88 | 2.45 | 72 |
| QF250 | 1 1/2 | 105 | 200 | 13438 | 216.2 | 10.6 | 304.8 | 147.1 | 190.0 | 78.7 | 4.13 | 9.30 | 106.9 | 59.2 | 130.3 | 63.2 | 39.5 |
| | | 4 1/8 | | 118930 | 8.51 | 3.96 | 12.00 | 5.79 | 7.48 | 3.10 | 0.163 | 0.365 | 4.21 | 2.33 | 5.13 | 2.49 | 87 |

Notes: ■ 1 indicates: When used with black insert. See pages 12-13 for complete torque ratings.
 ■ 2 indicates: Weights shown are approximate weights of complete coupling assemblies including two pilot-bore hubs, cover and insert.

Single-Ended Spacer Couplings

With High-Speed Cover

Single-Ended Spacer Coupling with High-Speed Cover

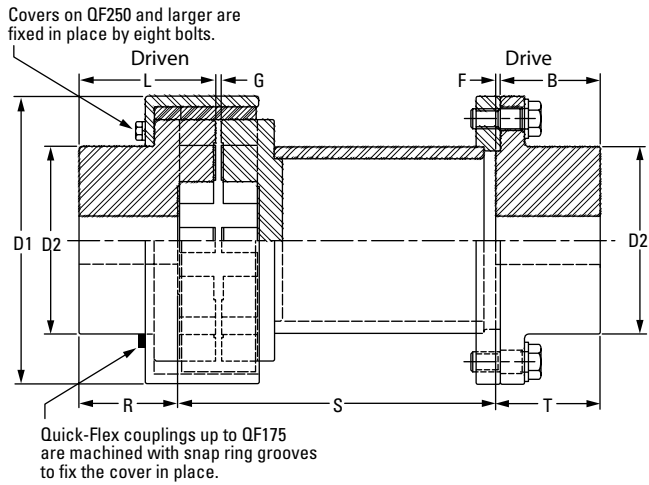


Fig. 25. Single-ended spacer coupling with high-speed cover.

Table 36. QUICK FLEX Insert Continuous Torque Ratings

| Coupling Series | Red | Blue | White | Black ¹ |
|-----------------|--------------|--------------|--------------|--------------------|
| | Nm in-lbs | Nm in-lbs | Nm in-lbs | Nm in-lbs |
| QF5 | 43 | 93 | 93 | N/A |
| | 377 | 819 | 819 | |
| QF15 | 120 | 234 | 234 | N/A |
| | 1059 | 2075 | 2075 | |
| QF25 | 387 | 730 | 730 | N/A |
| | 3426 | 6461 | 6461 | |
| QF50 | 798 | 1582 | 1582 | N/A |
| | 7066 | 14002 | 14002 | |
| QF100 | 1602 | 3177 | 3177 | N/A |
| | 14178 | 28115 | 28115 | |
| QF175 | 2780 | 5325 | 5325 | N/A |
| | 24602 | 47123 | 47123 | |
| QF250 | 3513 | 6975 | 6975 | N/A |
| | 31091 | 61726 | 61726 | |
| QF500 | 6790 | 13051 | 13051 | N/A |
| | 60091 | 115497 | 115497 | |
| QF1000 | 9601 | 18418 | 18418 | N/A |
| | 84966 | 162997 | 162997 | |
| QF1890 | 10740 | 20409 | 20409 | N/A |
| | 95061 | 180639 | 180639 | |
| QF3150 | 11880 | 22401 | 22401 | N/A |
| | 105135 | 198252 | 198252 | |
| QF10260 | 23748 | 44736 | 44736 | N/A |
| | 210173 | 395913 | 395913 | |

Note: ■ 1 indicates: When using a high-speed cover, the use of a black insert is not recommended. In an application where high torque is present, use a Split Cover option. Contact your Lovejoy application engineer for maximum shaft distance.

Table 37. QUICK FLEX Single-Ended Spacer Coupling with High-Speed Cover Dimensions

| Coupling Series | Pilot-Bore Diameter | Maximum Bore Size | | Continuous Torque ¹ | B | D1 | D2 | F | G _{Min} | G _{Max} | L | R | S _{Max} ² | T |
|-----------------|---------------------|-------------------|-------------|--------------------------------|-------|-------|-------|------|------------------|------------------|-------|-------|-------------------------------|-------|
| | | Square Key | Shallow Key | | | | | | | | | | | |
| | | in | mm in | | | | | | | | | | | |
| QF15 | 17/32 | 40 | - | 234 | 38.1 | 80.3 | 58.7 | 1.0 | 1.71 | 2.80 | 44.5 | 34.0 | 255 | 39.1 |
| | | 1 3/8 | - | 2075 | 1.50 | 3.16 | 2.31 | 0.04 | 0.067 | 0.110 | 1.75 | 1.34 | 10 | 1.54 |
| QF25 | 5/8 | 50 | - | 730 | 51.1 | 106.9 | 81.0 | 1.0 | 2.83 | 5.20 | 60.7 | 46.0 | 305 | 52.1 |
| | | 2 1/8 | - | 6461 | 2.01 | 4.21 | 3.19 | 0.04 | 0.111 | 0.205 | 2.39 | 1.81 | 12 | 2.05 |
| QF50 | 23/32 | 60 | - | 1582 | 61.2 | 139.2 | 89.4 | 1.0 | 1.81 | 5.30 | 75.2 | 54.9 | 355 | 62.2 |
| | | 2 3/8 | - | 14002 | 2.41 | 5.48 | 3.52 | 0.04 | 0.071 | 0.208 | 2.96 | 2.16 | 14 | 2.45 |
| QF100 | 15/16 | 75 | - | 3177 | 60.5 | 177.8 | 108.0 | 3.8 | 4.35 | 7.40 | 86.4 | 61.0 | 405 | 64.3 |
| | | 3 | - | 28115 | 2.38 | 7.00 | 4.25 | 0.15 | 0.171 | 0.290 | 3.40 | 2.40 | 16 | 2.53 |
| QF175 | 1 | 95 | - | 5325 | 72.4 | 203.2 | 139.7 | 3.8 | 6.41 | 5.30 | 95.3 | 66.5 | 455 | 76.2 |
| | | 3 7/8 | - | 47123 | 2.85 | 8.00 | 5.50 | 0.15 | 0.253 | 0.208 | 3.75 | 2.62 | 18 | 3.00 |
| QF250 | 1 1/2 | 105 | - | 6975 | 78.2 | 225.6 | 147.1 | 3.8 | 4.13 | 5.80 | 106.9 | 77.7 | 505 | 82.0 |
| | | 4 1/8 | - | 61726 | 3.08 | 8.88 | 5.79 | 0.15 | 0.163 | 0.230 | 4.21 | 3.06 | 20 | 3.23 |
| QF500 | 1 7/8 | 115 | - | 13051 | 94.5 | 273.6 | 177.8 | 3.8 | 4.89 | 6.40 | 127.0 | 94.5 | 610 | 94.5 |
| | | 4 1/2 | - | 115497 | 3.72 | 10.77 | 7.00 | 0.15 | 0.193 | 0.250 | 5.00 | 3.72 | 24 | 3.72 |
| QF1000 | 1 7/8 | 140 | - | 18418 | 116.8 | 308.1 | 198.4 | 3.8 | 5.65 | 9.86 | 152.4 | 116.8 | 760 | 166.8 |
| | | 5 1/2 | 6 3/16 | 162997 | 4.60 | 12.13 | 7.81 | 0.15 | 0.223 | 0.388 | 6.00 | 4.60 | 30 | 4.60 |
| QF1890 | 2 1/2 | 175 | - | 20409 | 145.8 | 365.3 | 241.3 | 3.8 | 6.62 | 7.06 | 184.4 | 145.8 | 760 | 145.8 |
| | | 6 1/2 | 7 1/2 | 180639 | 5.74 | 14.38 | 9.50 | 0.15 | 0.261 | 0.278 | 7.26 | 5.74 | 30 | 5.74 |
| QF3150 | 2 1/2 | 205 | - | 22401 | 157.0 | 425.5 | 279.4 | 5.1 | 3.37 | 7.75 | 202.7 | 157.0 | 915 | 157.0 |
| | | 6 1/2 | 9 | 198252 | 6.18 | 16.75 | 11.00 | 0.20 | 0.133 | 0.305 | 7.98 | 6.18 | 36 | 6.18 |
| QF10260 | 2 1/2 | 280 | - | 44736 | 183.4 | 510.5 | 381.0 | 5.1 | 4.64 | 12.83 | 251.0 | 183.4 | 915 | 183.4 |
| | | 6 1/2 | 11 1/4 | 395913 | 7.22 | 20.10 | 15.00 | 0.20 | 0.183 | 0.505 | 9.88 | 7.22 | 36 | 7.22 |

Notes: ■ 1 indicates: When used with blue insert. See pages 10-11 for complete torque ratings.

■ 2 indicates: Dimension shown is maximum distance between shafts. Please provide S dimension when ordering.

Single-Ended Spacer Couplings

With High-Speed Split Cover

Single-Ended Spacer Coupling with High-Speed Split Cover

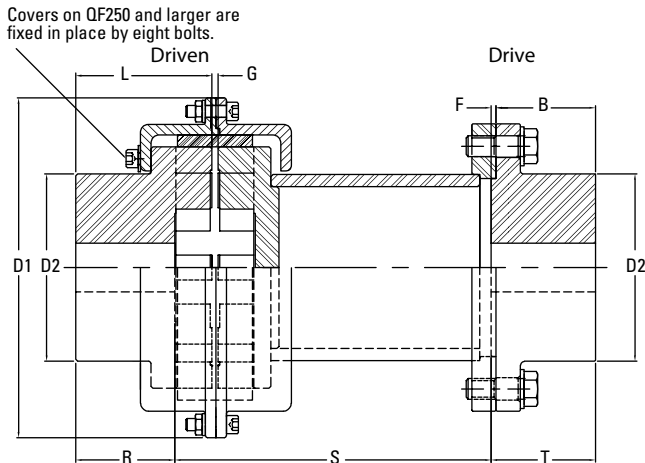


Fig. 26. Single-ended spacer coupling with high-speed split cover.

Table 38. QUICK FLEX Insert Continuous Torque Ratings

| Coupling Series | Red | Blue | White | Black |
|-----------------|--------------|---------------|---------------|---------------|
| | Nm in-lbs | Nm in-lbs | Nm in-lbs | Nm in-lbs |
| QF15 | 150 | 293 | 293 | 452 |
| | 1324 | 2594 | 2594 | 4001 |
| QF25 | 484 | 913 | 913 | 1407 |
| | 4283 | 8077 | 8077 | 12449 |
| QF50 | 998 | 1978 | 1978 | 2992 |
| | 8833 | 17502 | 17502 | 26479 |
| QF100 | 2003 | 3971 | 3971 | 6061 |
| | 17723 | 35144 | 35144 | 53642 |
| QF175 | 3475 | 6656 | 6656 | 9973 |
| | 30753 | 58903 | 58903 | 88257 |
| QF250 | 4391 | 8718 | 8718 | 13438 |
| | 38864 | 77158 | 77158 | 118930 |
| QF500 | 8487 | 16313 | 16313 | 24794 |
| | 75114 | 144372 | 144372 | 219429 |
| QF1000 | 12001 | 23022 | 23022 | 35081 |
| | 106208 | 203746 | 203746 | 310466 |
| QF1890 | 19869 | 38937 | 38937 | 62597 |
| | 175840 | 344594 | 344594 | 553982 |
| QF3150 | 33942 | 64004 | 64004 | 98434 |
| | 300387 | 566434 | 566434 | 871139 |
| QF10260 | 67852 | 127817 | 127817 | 188794 |
| | 600494 | 1131179 | 1131179 | 1670826 |

Table 39. QUICK FLEX Single-Ended Spacer Coupling with High-Speed Split Cover Dimensions

| Coupling Series | Pilot-Bore Diameter | Maximum Bore Size | | Continuous Torque ¹ | B | D1 | D2 | F | G _{Min} | G _{Max} | L | R | S _{Max} ² | T |
|-----------------|---------------------|-------------------|-------------|--------------------------------|--------------|--------------|--------------|------------|------------------|------------------|--------------|--------------|-------------------------------|--------------|
| | | Square Key | Shallow Key | | | | | | | | | | | |
| | | in | mm in | | | | | | | | | | | |
| QF15 | 17/32 | 40 | - | 452 | 38.1 | 119.4 | 58.7 | 1.0 | 1.71 | 3.20 | 44.5 | 34.0 | 255 | 39.1 |
| | | 1 5/8 | - | 4001 | 1.50 | 4.70 | 2.31 | 0.04 | 0.067 | 0.126 | 1.75 | 1.34 | 10 | 1.54 |
| QF25 | 5/8 | 50 | - | 1407 | 51.1 | 142.6 | 81.0 | 1.0 | 2.83 | 3.60 | 60.7 | 46.0 | 305 | 52.1 |
| | | 2 1/8 | - | 12449 | 2.01 | 5.62 | 3.19 | 0.04 | 0.111 | 0.140 | 2.39 | 1.81 | 12 | 2.05 |
| QF50 | 23/32 | 60 | - | 2992 | 61.2 | 193.5 | 89.4 | 1.0 | 1.81 | 5.60 | 75.2 | 54.9 | 355 | 62.2 |
| | | 2 3/8 | - | 26479 | 2.41 | 7.62 | 3.52 | 0.04 | 0.071 | 0.220 | 2.96 | 2.16 | 14 | 2.45 |
| QF100 | 15/16 | 75 | - | 6061 | 60.5 | 227.3 | 108.0 | 3.8 | 4.35 | 9.70 | 86.4 | 61.0 | 405 | 64.3 |
| | | 3 | - | 53642 | 2.38 | 8.95 | 4.25 | 0.15 | 0.171 | 0.380 | 3.40 | 2.40 | 16 | 2.53 |
| QF175 | 1 | 95 | - | 9973 | 72.4 | 250.2 | 139.7 | 3.8 | 6.41 | 8.80 | 95.3 | 66.5 | 455 | 76.2 |
| | | 3 7/8 | - | 88257 | 2.85 | 9.85 | 5.50 | 0.15 | 0.253 | 0.348 | 3.75 | 2.62 | 18 | 3.00 |
| QF250 | 1 1/2 | 105 | - | 13438 | 78.2 | 266.7 | 147.1 | 3.8 | 4.13 | 6.60 | 106.9 | 77.7 | 505 | 82.0 |
| | | 4 1/8 | - | 118930 | 3.08 | 10.50 | 5.79 | 0.15 | 0.163 | 0.258 | 4.21 | 3.06 | 20 | 3.23 |
| QF500 | 1 7/8 | 115 | - | 24794 | 94.5 | 342.9 | 177.8 | 3.8 | 4.89 | 9.50 | 127.0 | 94.5 | 610 | 94.5 |
| | | 4 1/2 | - | 219429 | 3.72 | 13.50 | 7.00 | 0.15 | 0.193 | 0.375 | 5.00 | 3.72 | 24 | 3.72 |
| QF1000 | 1 7/8 | 140 | - | 35081 | 116.8 | 387.4 | 198.4 | 3.8 | 5.65 | 10.40 | 152.4 | 116.8 | 760 | 166.8 |
| | | 5 1/2 | 6 3/16 | 310466 | 4.60 | 15.25 | 7.81 | 0.15 | 0.223 | 0.410 | 6.00 | 4.60 | 30 | 4.60 |
| QF1890 | 2 1/2 | 175 | - | 62597 | 145.8 | 450.9 | 241.3 | 3.8 | 6.62 | 11.50 | 184.4 | 145.8 | 760 | 145.8 |
| | | 6 1/2 | 7 1/2 | 553982 | 5.74 | 17.75 | 9.50 | 0.15 | 0.261 | 0.454 | 7.26 | 5.74 | 30 | 5.74 |
| QF3150 | 2 1/2 | 205 | - | 98434 | 157.0 | 497.6 | 279.4 | 5.1 | 3.37 | 9.652 | 202.7 | 157.0 | 915 | 157.0 |
| | | 6 1/2 | 9 | 871139 | 6.18 | 19.59 | 11.00 | 0.20 | 0.133 | 0.380 | 7.98 | 6.18 | 36 | 6.18 |
| QF10260 | 2 1/2 | 280 | - | 188794 | 183.4 | 619.3 | 381.0 | 5.1 | 4.64 | 12.50 | 251.0 | 183.4 | 915 | 183.4 |
| | | 6 1/2 | 11 1/4 | 1670826 | 7.22 | 24.38 | 15.00 | 0.20 | 0.183 | 0.492 | 9.88 | 7.22 | 36 | 7.22 |

Notes: ■ 1 indicates: When used with black insert. See pages 12-13 for complete torque ratings.
 ■ 2 indicates: Dimension shown is maximum distance between shafts. Please provide S dimension when ordering.
 ■ Spacer bodies ordered with High-Speed Split Covers need to be ordered as HVSPCOVER for fitting purposes.

Single-Ended Spacer Couplings

With Aluminum High-Performance (HP) Cover

Single-Ended Spacer Coupling with Aluminum High-Performance (HP) Cover

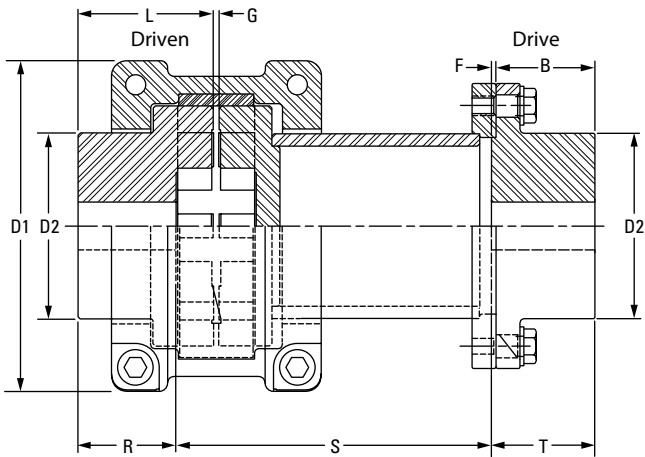


Fig. 27. Single-Ended spacer coupling with aluminum high-performance cover.

Table 40. QUICK FLEX Insert Continuous Torque Ratings

| Coupling Series | Red | Blue | White | Black |
|-----------------|--------------|--------------|--------------|--------------|
| | Nm in-lbs | Nm in-lbs | Nm in-lbs | Nm in-lbs |
| QF15 | 150 | 293 | 293 | 452 |
| | 1324 | 2594 | 2594 | 4001 |
| QF25 | 484 | 913 | 913 | 1407 |
| | 4283 | 8077 | 8077 | 12449 |
| QF50 | 998 | 1978 | 1978 | 2992 |
| | 8833 | 17502 | 17502 | 26479 |
| QF100 | 2003 | 3971 | 3971 | 6061 |
| | 17723 | 35144 | 35144 | 53642 |
| QF175 | 3475 | 6656 | 6656 | 9973 |
| | 30753 | 58903 | 58903 | 88257 |
| QF250 | 4391 | 8718 | 8718 | 13438 |
| | 38864 | 77158 | 77158 | 118930 |
| QF500 | 8487 | 16313 | 16313 | 24794 |
| | 75114 | 144372 | 144372 | 219429 |

Table 41. QUICK FLEX Single-Ended Spacer Coupling with Aluminum High-Performance (HP) Cover Dimensions

| Coupling Series | Pilot-Bore Diameter | Maximum Bore Size | Continuous Torque ¹ | B | D1 | D2 | F | G _{Min} | G _{Max} | L | R | S _{Max} ² | T |
|-----------------|---------------------|-------------------|--------------------------------|-------------|--------------|--------------|------------|------------------|------------------|--------------|-------------|-------------------------------|-------------|
| | | Square Key | | | | | | | | | | | |
| | in | mm in | Nm in-lbs | mm in | mm in | mm in | mm in | mm in | mm in | mm in | mm in | mm in | |
| QF15 | 17/32 | 40 | 452 | 38.1 | 101.3 | 58.7 | 1.0 | 1.71 | 5.60 | 44.5 | 34.0 | 255 | 39.1 |
| | | 1 5/8 | 4001 | 1.50 | 3.99 | 2.31 | 0.04 | 0.067 | 0.220 | 1.75 | 1.34 | 10 | 1.54 |
| QF25 | 5/8 | 50 | 1407 | 51.1 | 135.6 | 81.0 | 1.0 | 2.83 | 4.10 | 44.5 | 46.0 | 305 | 52.1 |
| | | 2 1/8 | 12449 | 2.01 | 5.34 | 3.19 | 0.04 | 0.111 | 0.160 | 2.39 | 1.81 | 12 | 2.05 |
| QF50 | 23/32 | 60 | 2992 | 61.2 | 184.9 | 89.4 | 1.0 | 1.81 | 4.10 | 75.2 | 54.9 | 355 | 62.2 |
| | | 2 3/8 | 26479 | 2.41 | 7.28 | 3.52 | 0.04 | 0.071 | 0.160 | 2.96 | 2.16 | 14 | 2.45 |
| QF100 | 15/16 | 75 | 6061 | 60.5 | 197.1 | 108.0 | 3.8 | 4.35 | 9.40 | 86.4 | 61.0 | 405 | 64.3 |
| | | 3 | 53642 | 2.38 | 7.76 | 4.25 | 0.15 | 0.171 | 0.370 | 3.4 | 2.40 | 16 | 2.53 |
| QF175 | 1 | 95 | 9973 | 72.4 | 216.4 | 139.7 | 3.8 | 6.41 | 9.30 | 95.3 | 66.4 | 455 | 76.2 |
| | | 3 7/8 | 88257 | 2.85 | 8.52 | 5.50 | 0.15 | 0.253 | 0.368 | 3.75 | 2.62 | 18 | 3.00 |
| QF250 | 1 1/2 | 105 | 13438 | 78.2 | 261.4 | 147.1 | 3.8 | 4.13 | 8.10 | 106.9 | 77.7 | 510 | 82.0 |
| | | 4 1/8 | 118930 | 3.08 | 10.29 | 5.79 | 0.15 | 0.163 | 0.318 | 4.21 | 3.06 | 20 | 3.23 |
| QF500 | 1 7/8 | 115 | 24794 | 94.5 | 305.3 | 177.8 | 3.8 | 4.89 | 9.53 | 127.0 | 94.5 | 610 | 94.5 |
| | | 4 1/2 | 219429 | 3.72 | 12.02 | 7.00 | 0.15 | 0.193 | 0.375 | 5.00 | 3.72 | 24 | 3.72 |

Notes: ■ 1 indicates: When used with black insert. See pages 12-13 for complete torque ratings.

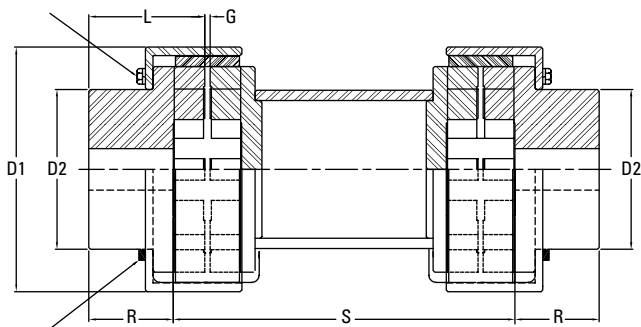
■ 2 indicates: Dimension shown is maximum distance between shafts. Please provide S dimension when ordering.

Double-Ended Spacer Couplings

With High-Speed Covers

Double-Ended Spacer Coupling with High-Speed Covers

Covers on QF250 and larger are fixed in place by eight bolts.



Quick-Flex couplings up to QF175 are machined with snap-ring grooves to fix the cover in place.

Fig. 28. Double-ended spacer coupling with high-speed covers.

Table 42. QUICK FLEX Insert Continuous Torque Ratings

| Coupling Series | Red | Blue | White | Black ¹ |
|-----------------|--------------|--------------|--------------|--------------------|
| | Nm in-lbs | Nm in-lbs | Nm in-lbs | Nm in-lbs |
| QF5 | 43 | 93 | 93 | N/A |
| | 377 | 819 | 819 | |
| QF15 | 120 | 234 | 234 | N/A |
| | 1059 | 2075 | 2075 | |
| QF25 | 387 | 730 | 730 | N/A |
| | 3426 | 6461 | 6461 | |
| QF50 | 798 | 1582 | 1582 | N/A |
| | 7066 | 14002 | 14002 | |
| QF100 | 1602 | 3177 | 3177 | N/A |
| | 14178 | 28115 | 28115 | |
| QF175 | 2780 | 5325 | 5325 | N/A |
| | 24602 | 47123 | 47123 | |
| QF250 | 3513 | 6975 | 6975 | N/A |
| | 31091 | 61726 | 61726 | |
| QF500 | 6790 | 13051 | 13051 | N/A |
| | 60091 | 115497 | 115497 | |
| QF1000 | 9601 | 18418 | 18418 | N/A |
| | 84966 | 162997 | 162997 | |

Note: ■ 1 indicates: When using a high-speed cover, the use of a black insert is not recommended. In an application where high torque is present, use a Split Cover option. Contact your Lovejoy application engineer for maximum shaft distance.

Table 43. QUICK FLEX Double-Ended Spacer Coupling with High-Speed Covers Dimensions

| Coupling Series | Pilot-Bore Diameter | Maximum Bore Size | | Continuous Torque ¹ | D1 | D2 | G _{Min} | G _{Max} | L | R | S ² |
|-----------------|---------------------|-------------------|-------------|--------------------------------|--------------|--------------|------------------|------------------|--------------|--------------|----------------|
| | | Square Key | Shallow Key | | | | | | | | |
| | | in | mm in | | | | | | | | |
| QF15 | 17/32 | 40 | – | 234 | 80.3 | 58.7 | 1.71 | 2.800 | 44.5 | 34.0 | 2 |
| | | 1 5/8 | – | 2075 | 3.16 | 2.31 | 0.067 | 0.110 | 1.75 | 1.34 | |
| QF25 | 5/8 | 50 | – | 730 | 106.9 | 81.0 | 2.83 | 5.200 | 60.7 | 46.0 | 2 |
| | | 2 1/8 | – | 6461 | 4.21 | 3.19 | 0.111 | 0.205 | 2.39 | 1.81 | |
| QF50 | 23/32 | 60 | – | 1582 | 139.2 | 89.4 | 1.81 | 5.300 | 75.2 | 54.9 | 2 |
| | | 2 3/8 | – | 14002 | 5.48 | 3.52 | 0.071 | 0.208 | 2.96 | 2.16 | |
| QF100 | 15/16 | 75 | – | 3177 | 177.8 | 108.0 | 4.35 | 7.400 | 86.4 | 61.0 | 2 |
| | | 3 | – | 28115 | 7.00 | 4.25 | 0.171 | 0.290 | 3.40 | 2.40 | |
| QF175 | 1 | 95 | – | 5325 | 203.2 | 139.7 | 6.41 | 5.300 | 95.3 | 66.5 | 2 |
| | | 3 7/8 | – | 47123 | 8.00 | 5.50 | 0.253 | 0.208 | 3.75 | 2.62 | |
| QF250 | 1 1/2 | 105 | – | 6975 | 225.6 | 147.1 | 4.13 | 5.800 | 106.9 | 77.7 | 2 |
| | | 4 1/8 | – | 61726 | 8.88 | 5.79 | 0.163 | 0.230 | 4.21 | 3.06 | |
| QF500 | 1 7/8 | 115 | – | 13051 | 273.6 | 177.8 | 4.89 | 6.400 | 127.0 | 94.5 | 2 |
| | | 4 1/2 | – | 115497 | 10.77 | 7.00 | 0.193 | 0.250 | 5.00 | 3.72 | |
| QF1000 | 1 7/8 | 140 | – | 18418 | 308.1 | 198.4 | 5.65 | 4.10 | 9.86 | 116.8 | 2 |
| | | 5 1/2 | 6 3/16 | 162997 | 12.13 | 7.81 | 0.223 | 0.160 | 0.388 | 4.60 | |

Notes: ■ 1 indicates: When used with blue insert. See pages 10-11 for complete torque ratings.
 ■ 2 indicates: Customer to provide S dimension when ordering.

Double-Ended Spacer Couplings With High-Speed Split Covers

Double-Ended Spacer Coupling with High-Speed Split Covers

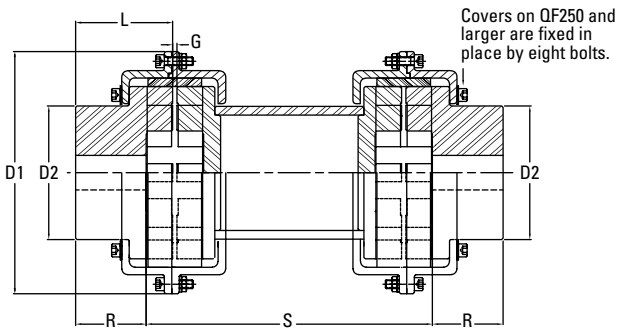


Fig. 29. Double-ended spacer coupling with high-speed split covers.

Table 44. QUICK FLEX Insert Continuous Torque Ratings

| Coupling Series | Red | Blue | White | Black |
|-----------------|--------------|---------------|---------------|---------------|
| | Nm in-lbs | Nm in-lbs | Nm in-lbs | Nm in-lbs |
| QF15 | 150 | 293 | 293 | 452 |
| | 1324 | 2594 | 2594 | 4001 |
| QF25 | 484 | 913 | 913 | 1407 |
| | 4283 | 8077 | 8077 | 12449 |
| QF50 | 998 | 1978 | 1978 | 2992 |
| | 8833 | 17502 | 17502 | 26479 |
| QF100 | 2003 | 3971 | 3971 | 6061 |
| | 17723 | 35144 | 35144 | 53642 |
| QF175 | 3475 | 6656 | 6656 | 9973 |
| | 30753 | 58903 | 58903 | 88257 |
| QF250 | 4391 | 8718 | 8718 | 13438 |
| | 38864 | 77158 | 77158 | 118930 |
| QF500 | 8487 | 16313 | 16313 | 24794 |
| | 75114 | 144372 | 144372 | 219429 |
| QF1000 | 12001 | 23022 | 23022 | 35081 |
| | 106208 | 203746 | 203746 | 310466 |
| QF1890 | 19869 | 38937 | 38937 | 62597 |
| | 175840 | 344594 | 344594 | 553982 |
| QF3150 | 33942 | 64004 | 64004 | 98434 |
| | 300387 | 566434 | 566434 | 871139 |
| QF10260 | 67852 | 127817 | 127817 | 188794 |
| | 600494 | 1131179 | 1131179 | 1670826 |

Table 45. QUICK FLEX Double-Ended Spacer Coupling with High-Speed Split Cover Dimensions

| Coupling Series | Pilot-Bore Diameter | Maximum Bore Size | | Continuous Torque ¹ | D1 | D2 | G _{Min} | G _{Max} | L | R | S ² |
|-----------------|---------------------|-------------------|-------------|--------------------------------|--------------|--------------|------------------|------------------|--------------|--------------|----------------|
| | | Square Key | Shallow Key | | | | | | | | |
| | | in | mm in | | | | | | | | |
| QF15 | 17/32 | 40 | – | 452 | 119.4 | 58.7 | 1.71 | 3.20 | 44.5 | 34.0 | 2 |
| | | 1 5/8 | – | 4001 | 4.70 | 2.31 | 0.067 | 0.126 | 1.75 | 1.34 | |
| QF25 | 5/8 | 50 | – | 1407 | 142.7 | 81.0 | 2.83 | 3.60 | 60.7 | 46.0 | 2 |
| | | 2 1/8 | – | 12449 | 5.62 | 3.19 | 0.111 | 0.140 | 2.39 | 1.81 | |
| QF50 | 23/32 | 60 | – | 2992 | 193.5 | 89.4 | 1.81 | 5.60 | 75.2 | 54.9 | 2 |
| | | 2 3/8 | – | 26479 | 7.62 | 3.52 | 0.071 | 0.220 | 2.96 | 2.16 | |
| QF100 | 15/16 | 75 | – | 6061 | 227.3 | 108.0 | 4.35 | 9.70 | 86.4 | 61.0 | 2 |
| | | 3 | – | 53642 | 8.95 | 4.25 | 0.171 | 0.380 | 3.40 | 2.40 | |
| QF175 | 1 | 95 | – | 9973 | 250.2 | 139.7 | 6.41 | 8.80 | 95.3 | 66.5 | 2 |
| | | 3 7/8 | – | 88257 | 9.85 | 5.50 | 0.253 | 0.348 | 3.75 | 2.62 | |
| QF250 | 1 1/2 | 105 | – | 13438 | 266.7 | 147.1 | 4.13 | 6.60 | 106.9 | 77.7 | 2 |
| | | 4 1/8 | – | 118930 | 10.50 | 5.79 | 0.163 | 0.258 | 4.21 | 3.06 | |
| QF500 | 1 7/8 | 115 | – | 24794 | 342.9 | 177.8 | 4.89 | 9.50 | 127.0 | 94.5 | 2 |
| | | 4 1/2 | – | 219429 | 13.5 | 7.00 | 0.193 | 0.375 | 5.00 | 3.72 | |
| QF1000 | 1 7/8 | 140 | – | 35081 | 387.4 | 198.4 | 5.65 | 10.40 | 152.4 | 116.8 | 2 |
| | | 5 1/2 | 6 3/16 | 310466 | 15.25 | 7.81 | 0.223 | 0.410 | 6.00 | 4.60 | |
| QF1890 | 2 1/2 | 175 | – | 62597 | 450.9 | 241.3 | 6.62 | 11.50 | 184.4 | 145.8 | 2 |
| | | 6 1/2 | 7 1/2 | 553982 | 17.75 | 9.50 | 0.261 | 0.454 | 7.26 | 5.74 | |
| QF3150 | 2 1/2 | 205 | – | 98434 | 497.6 | 279.4 | 3.37 | 9.652 | 202.7 | 157.0 | 2 |
| | | 6 1/2 | 9 | 871139 | 19.59 | 11.00 | 0.133 | 0.380 | 7.98 | 6.18 | |
| QF10260 | 2 1/2 | 280 | – | 188794 | 619.3 | 381.0 | 4.64 | 12.50 | 251.0 | 183.4 | 2 |
| | | 6 1/2 | 11 1/4 | 1670826 | 24.38 | 15.00 | 0.183 | 0.492 | 9.88 | 7.22 | |

Notes: ■ 1 indicates: When used with black insert. See pages 12-13 for complete torque ratings.
 ■ 2 indicates: Customer to provide S dimension when ordering.
 ■ Spacer bodies ordered with High-Speed Split Covers need to be ordered as HVSPCOVER for fitting purposes.

Double-Ended Spacer Couplings

With Aluminum High-Performance (HP) Covers

Double-Ended Spacer Coupling with Aluminum High-Performance (HP) Covers

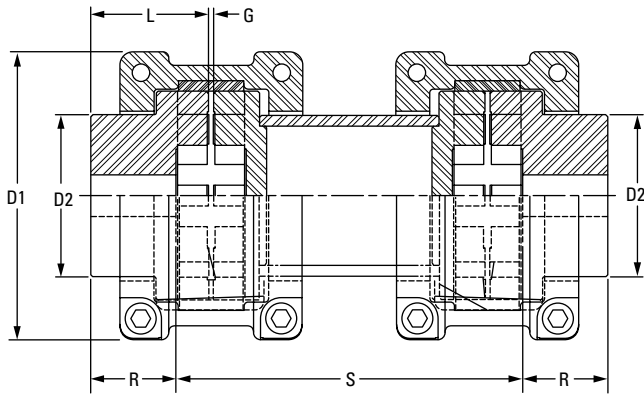


Fig. 30. Double-ended spacer coupling with aluminum high-performance covers.

Table 46. QUICK FLEX Insert Continuous Torque Ratings

| Coupling Series | Red | Blue | White | Black |
|-----------------|--------------|--------------|--------------|--------------|
| | Nm in-lbs | Nm in-lbs | Nm in-lbs | Nm in-lbs |
| QF15 | 150 | 293 | 293 | 452 |
| | 1324 | 2594 | 2594 | 4001 |
| QF25 | 484 | 913 | 913 | 1407 |
| | 4283 | 8077 | 8077 | 12449 |
| QF50 | 998 | 1978 | 1978 | 2992 |
| | 8833 | 17502 | 17502 | 26479 |
| QF100 | 2003 | 3971 | 3971 | 6061 |
| | 17723 | 35144 | 35144 | 53642 |
| QF175 | 3475 | 6656 | 6656 | 9973 |
| | 30753 | 58903 | 58903 | 88257 |
| QF250 | 4391 | 8718 | 8718 | 13438 |
| | 38864 | 77158 | 77158 | 118930 |
| QF500 | 8487 | 16313 | 16313 | 24794 |
| | 75114 | 144372 | 144372 | 219429 |

Table 47. QUICK FLEX Double-Ended Spacer Coupling with Aluminum High-Performance (HP) Cover Dimensions

| Coupling Series | Pilot-Bore Diameter | Maximum Bore Size | Continuous Torque ¹ | D1 | D2 | G _{Min} | G _{Max} | L | R | S ² |
|-----------------|---------------------|-------------------|--------------------------------|---------------|--------------|------------------|------------------|--------------|--------------|----------------|
| | | Square Key | | | | | | | | |
| | in | mm in | Nm in-lbs | mm in | mm in | mm in | mm in | mm in | mm in | |
| QF15 | 17/32 | 40 | 452 | 101.3 | 58.7 | 1.71 | 5.60 | 44.5 | 34.0 | 2 |
| | | 1 5/8 | 4001 | 3.99 | 2.31 | 0.067 | 0.220 | 1.75 | 1.34 | |
| QF25 | 5/8 | 50 | 1407 | 135.6 | 81.0 | 2.83 | 4.00 | 60.7 | 46.0 | 2 |
| | | 2 1/8 | 12449 | 5.34 | 3.19 | 0.111 | 0.160 | 2.39 | 1.81 | |
| QF50 | 23/32 | 60 | 2992 | 184.9 | 89.4 | 1.81 | 4.00 | 75.2 | 54.9 | 2 |
| | | 2 3/8 | 26479 | 7.28 | 3.52 | 0.071 | 0.160 | 2.96 | 2.16 | |
| QF100 | 15/16 | 75 | 6061 | 197.1 | 108.0 | 4.35 | 9.40 | 86.4 | 61.0 | 2 |
| | | 3 | 53642 | 7.76 | 4.25 | 0.171 | 0.370 | 3.40 | 2.40 | |
| QF175 | 1 | 95 | 9973 | 216.4 | 139.7 | 6.41 | 9.30 | 95.3 | 66.5 | 2 |
| | | 3 7/8 | 88257 | 8.52 | 5.50 | 0.253 | 0.368 | 3.75 | 2.62 | |
| QF250 | 1 1/2 | 105 | 13438 | 261.4 | 147.1 | 4.13 | 8.10 | 106.9 | 77.7 | 2 |
| | | 4 1/8 | 118930 | 10.29 | 5.79 | 0.163 | 0.318 | 4.21 | 3.06 | |
| QF500 | 1 7/8 | 115 | 24794 | 305.31 | 177.8 | 4.89 | 9.53 | 127.0 | 94.49 | 2 |
| | | 4 1/2 | 219429 | 12.02 | 7.00 | 0.193 | 0.375 | 5.00 | 3.72 | |

Notes: ■ 1 indicates: When used with black insert. See pages 12-13 for complete torque ratings.
 ■ 2 indicates: Customer to provide S dimension when ordering.

Double-Ended Spacer Flange Couplings

With High-Speed Split Covers

Double-Ended Spacer Flange Coupling with High-Speed Split Covers

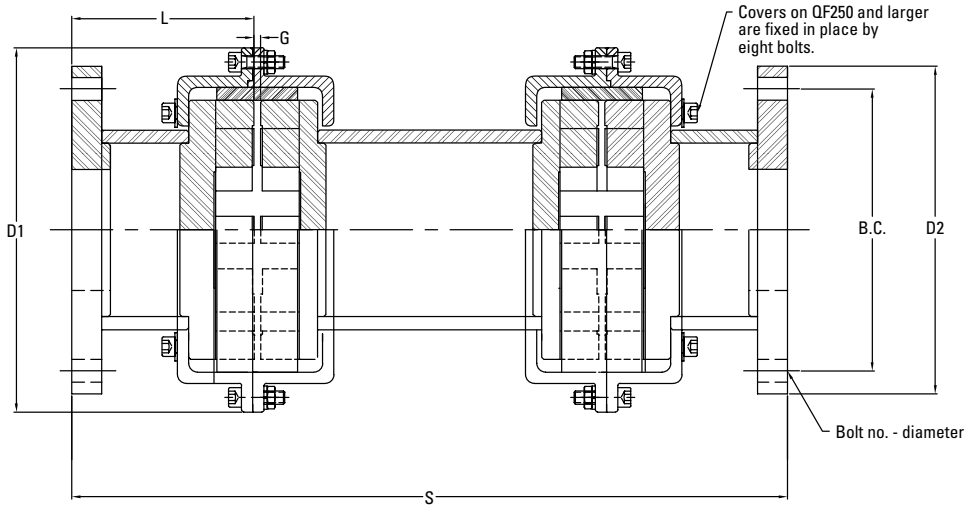


Fig. 31. Double-ended spacer flange coupling with high-speed split covers.

Table 48. QUICK FLEX Double-Ended Spacer Flange Coupling with High-Speed Split Cover Dimensions

| Coupling Series | G52 Gear Coupling | Continuous Torque ¹ | B.C. | D1 | D2 | G _{Min} | G _{Max} | L | S ² | S _{Min} |
|-----------------|-------------------|--------------------------------|----------|----------|----------|------------------|------------------|----------|----------------|------------------|
| | | Nm in-lbs | mm in | mm in | mm in | mm in | mm in | mm in | mm in | mm in |
| QF25 | 1010G52 | 1407 | 95.3 | 147.8 | 115.9 | 2.83 | 3.56 | 59.2 | 2 | 198.1 |
| | | 12449 | 3.75 | 5.62 | 4.56 | 0.111 | 0.140 | 2.33 | | 7.80 |
| QF50 | 1015G52 | 2992 | 122.2 | 193.5 | 152.4 | 1.81 | 5.59 | 78.2 | 2 | 263.7 |
| | | 26479 | 4.81 | 7.62 | 6.00 | 0.071 | 0.220 | 3.08 | | 10.38 |
| QF100 | 1020G52 | 6061 | 149.2 | 227.3 | 177.8 | 4.35 | 9.65 | 100.1 | 2 | 345.4 |
| | | 53642 | 5.88 | 8.95 | 7.00 | 0.171 | 0.380 | 3.94 | | 13.60 |
| QF175 | 1025G52 | 9973 | 181.0 | 250.2 | 212.7 | 6.41 | 8.84 | 112.5 | 2 | 374.7 |
| | | 88257 | 7.13 | 9.85 | 8.38 | 0.253 | 0.348 | 4.43 | | 14.75 |
| QF250 | 1030G52 | 13438 | 206.4 | 266.7 | 239.7 | 4.13 | 6.55 | 154.2 | 2 | 451.4 |
| | | 118930 | 8.13 | 10.50 | 9.44 | 0.163 | 0.258 | 6.07 | | 17.77 |
| QF500 | 1035G52 | 24794 | 241.3 | 342.9 | 279.4 | 4.89 | 9.53 | 188.2 | 2 | 563.9 |
| | | 219429 | 9.50 | 13.50 | 11.00 | 0.193 | 0.375 | 7.41 | | 22.20 |
| QF500 | 1040G52 | 24794 | 279.4 | 312.2 | 317.5 | 4.89 | 9.53 | 188.2 | 2 | 563.9 |
| | | 219429 | 11.00 | 12.29 | 12.50 | 0.193 | 0.375 | 7.41 | | 22.20 |
| QF1000 | 1045G52 | 35081 | 304.8 | 387.4 | 346.1 | 5.65 | 10.41 | 192.0 | 2 | 580.1 |
| | | 310466 | 12.00 | 15.25 | 13.63 | 0.223 | 0.410 | 7.56 | | 22.84 |
| QF1890 | 1050G52 | 62597 | 342.9 | 450.9 | 389.0 | 6.62 | 11.53 | 219.7 | 2 | 673.1 |
| | | 553982 | 13.50 | 17.75 | 15.31 | 0.261 | 0.454 | 8.65 | | 26.50 |
| QF1890 | 1055G52 | 62597 | 368.3 | 450.9 | 425.4 | 6.62 | 11.53 | 219.7 | 2 | 673.1 |
| | | 553982 | 14.50 | 17.75 | 16.75 | 0.261 | 0.454 | 8.65 | | 26.50 |
| QF3150 | 1060G52 | 98434 | 400.1 | 497.6 | 457.2 | 3.37 | 11.56 | 209.0 | 2 | 644.7 |
| | | 871138 | 15.75 | 19.59 | 18.00 | 0.133 | 0.455 | 8.23 | | 25.38 |
| QF10260 | 1070G52 | 188794 | 469.9 | 619.3 | 527.1 | 4.64 | 12.50 | 258.6 | 2 | 850.9 |
| | | 1670826 | 18.50 | 24.38 | 20.75 | 0.183 | 0.492 | 10.18 | | 33.50 |
| QF10260 | 1080G52 | 188794 | 527.1 | 619.3 | 603.3 | 4.64 | 12.50 | 266.5 | 2 | 866.1 |
| | | 1670826 | 20.75 | 24.38 | 23.75 | 0.183 | 0.492 | 10.49 | | 34.10 |
| QF10260 | 1090G52 | 188794 | 590.6 | 619.3 | 660.4 | 4.64 | 12.50 | 276.6 | 2 | 886.0 |
| | | 1670826 | 23.25 | 24.38 | 26.00 | 0.183 | 0.492 | 10.89 | | 34.88 |

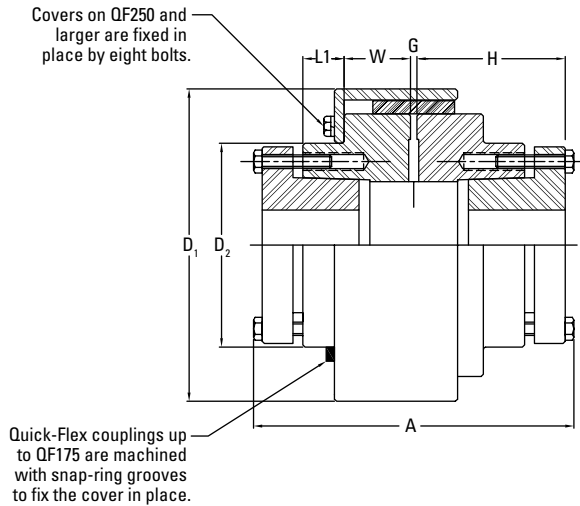
Notes: ■ 1 indicates: When used with black insert. See pages 12-13 for complete torque ratings.
 ■ 2 indicates: Customer to provide S dimension when ordering.
 ■ Spacer bodies ordered with High-Speed Split Covers need to be ordered as HVSPCOVER for fitting purposes.

Bushing-Style Interchange Couplings

Browning® Style Hubs

Bushing-Style Interchange Couplings

QUICK FLEX Browning® Style Hubs



Note: Bushing-style couplings are available with all cover and insert options. Bushings are not supplied with QUICK FLEX bushing-style interchange coupling hubs.

Fig. 32. QUICK FLEX Browning® style hubs.

Table 49. QUICK FLEX Browning® Style Hub Dimensions

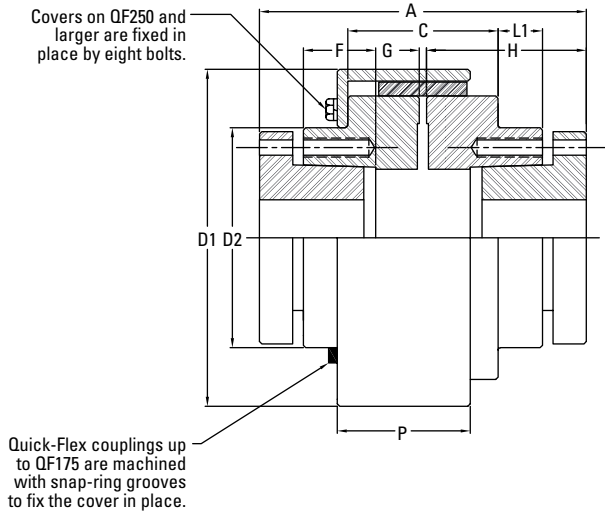
| Coupling Series | Bushing Part No. | Bushing Torque Ratings | Bore Range | A | D1 | D2 | G _{Min} | G _{Max} | H | L1 | W | Wt. |
|-------------------|------------------|------------------------|-----------------|--------------|--------------|--------------|------------------|------------------|--------------|-------------|-------------|-------------|
| | | Nm in-lbs | mm in | mm in | mm in | mm in | mm in | mm in | mm in | mm in | mm in | kg lbs |
| QF5 | G | 203 | 10 - 25 | 69.9 | 63.2 | 50.8 | 2.47 | 2.30 | 23.1 | 11.4 | 12.7 | 0.9 |
| | | 1800 | ½ - 1 | 2.75 | 2.49 | 2.00 | 0.097 | 0.092 | 0.91 | 0.45 | 0.50 | 2 |
| QF15 ¹ | H | 421 | 10 - 38 | 77.7 | 80.3 | 58.7 | 1.71 | 2.50 | 33.3 | 17.8 | 15.5 | 2.3 |
| | | 3730 | ¾ - 1 ½ | 3.06 | 3.16 | 2.31 | 0.067 | 0.099 | 1.31 | 0.70 | 0.61 | 5 |
| QF25 | P1 | 1069 | 14 - 42 | 141.7 | 106.9 | 81.0 | 2.83 | 5.20 | 70.1 | 23.4 | 24.4 | 3.6 |
| | | 9460 | ½ - 1 ¾ | 5.58 | 4.21 | 3.19 | 0.111 | 0.205 | 2.76 | 0.92 | 0.96 | 8 |
| QF50 | P1 | 1164 | 14 - 42 | 153.2 | 139.7 | 89.4 | 1.81 | 5.30 | 75.7 | 23.6 | 30.0 | 5.9 |
| | | 10300 | ½ - 1 ¾ | 6.03 | 5.50 | 3.52 | 0.071 | 0.208 | 2.98 | 0.93 | 1.18 | 13 |
| QF100 | Q1 | 2316 | 18 - 65 | 193.8 | 108.0 | 108.0 | 4.35 | 7.40 | 94.5 | 26.4 | 41.7 | 10.9 |
| | | 20500 | ¾ - 2 1/16 | 7.63 | 4.25 | 4.25 | 0.171 | 0.290 | 3.72 | 1.04 | 1.64 | 24 |
| QF175 | R1 | 4621 | 28 - 95 | 220.0 | 203.2 | 139.7 | 6.41 | 5.30 | 100.6 | 33.8 | 44.5 | 15.4 |
| | | 40900 | 1 ⅛ - 3 ¾ | 8.66 | 8.00 | 5.50 | 0.253 | 0.208 | 3.96 | 1.33 | 1.75 | 34 |
| QF250 | R1 | 4621 | 28 - 95 | 221.5 | 225.3 | 147.1 | 4.13 | 5.80 | 108.2 | 31.0 | 47.8 | 20.4 |
| | | 40900 | 1 ⅛ - 3 ¾ | 8.72 | 8.87 | 5.79 | 0.163 | 0.230 | 4.26 | 1.22 | 1.88 | 45 |
| QF500 | S1 | 5876 | 42 - 100 | 309.4 | 273.6 | 177.8 | 4.89 | 6.40 | 152.4 | 58.7 | 57.2 | 43.5 |
| | | 52000 | 1 1/16 - 4 ¼ | 12.18 | 10.77 | 7.00 | 0.193 | 0.250 | 6.00 | 2.31 | 2.25 | 96 |

Notes: ■ 1 indicates: Available with low-speed split cover only.
 ■ Bushing limits torque rating and speed rating.
 ■ Lovejoy is not affiliated with EPT®, owner of the Browning® trademark.

Bushing-Style Interchange Couplings

QD® Style Hubs

QUICK FLEX QD® Style Hubs



Note: Bushings are not supplied with QUICK FLEX bushing-style interchange coupling hubs. Bushing-style couplings are available with all cover and insert options.

Fig. 33. QUICK FLEX QD® style hubs.

Table 50. QUICK FLEX QD® Style Hub Dimensions

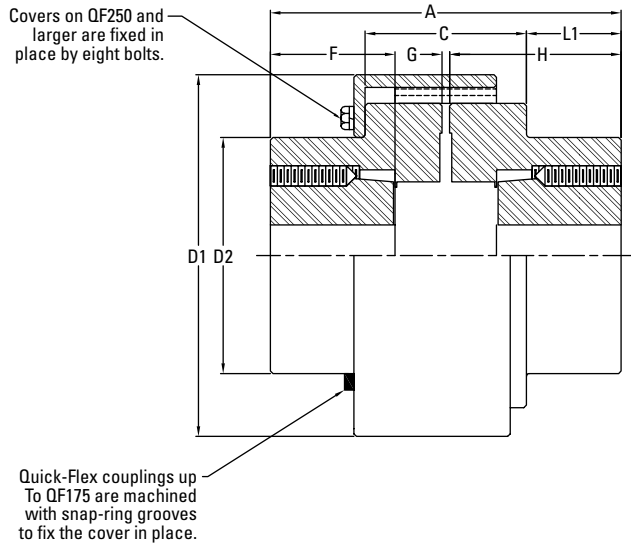
| Coupling Series | Bushing Type | Bushing Torque Rating | Bore Range | A | C | D1 | D2 | F | G _{Min} | G _{Max} | H | L1 | P | Wt. |
|-------------------|--------------|-----------------------|-------------|----------|----------|----------|----------|----------|------------------|------------------|----------|----------|----------|-----------|
| | | Nm in-lbs | mm in | mm in | mm in | mm in | mm in | mm in | mm in | mm in | mm in | mm in | mm in | kg lbs |
| QF15 ¹ | JA | 113 | 24 - 28 | 90.4 | 32.5 | 80.3 | 58.7 | 21.3 | 1.71 | 2.50 | 44.5 | 16.3 | 33.8 | 2.3 |
| | | 1000 | ½ - 1 ¼ | 3.56 | 1.28 | 3.16 | 2.31 | 0.84 | 0.067 | 0.099 | 1.75 | 0.64 | 1.33 | 5 |
| QF25 | SD | 395 | 24 - 42 | 122.7 | 50.5 | 106.9 | 81.0 | 29.2 | 2.83 | 5.20 | 60.7 | 19.3 | 49.0 | 4.1 |
| | | 3500 | ½ - 1 ⅞ | 4.83 | 1.99 | 4.21 | 3.19 | 1.15 | 0.111 | 0.205 | 2.39 | 0.76 | 1.93 | 9 |
| QF50 | SD | 565 | 24 - 42 | 151.9 | 61.5 | 139.7 | 89.4 | 38.1 | 1.81 | 5.30 | 75.2 | 28.4 | 45.7 | 6.8 |
| | | 5000 | ½ - 2 | 5.98 | 2.42 | 5.50 | 3.52 | 1.50 | 0.071 | 0.208 | 2.96 | 1.12 | 1.80 | 15 |
| QF100 | SK | 791 | 24 - 55 | 177.5 | 88.4 | 177.8 | 108.0 | 42.7 | 4.35 | 7.40 | 86.4 | 24.6 | 75.2 | 11.3 |
| | | 7000 | ½ - 2 ⅝ | 6.99 | 3.48 | 7.00 | 4.25 | 1.68 | 0.171 | 0.290 | 3.40 | 0.97 | 2.96 | 25 |
| QF175 | SF | 1243 | 28 - 60 | 194.8 | 93.2 | 203.2 | 139.7 | 46.5 | 6.41 | 5.30 | 95.3 | 29.5 | 83.1 | 15.9 |
| | | 11000 | ½ - 2 15/16 | 7.67 | 3.67 | 8.00 | 5.50 | 1.83 | 0.253 | 0.208 | 3.75 | 1.16 | 3.27 | 35 |
| QF250 | SF | 1243 | 28 - 60 | 218.7 | 100.6 | 225.6 | 147.1 | 57.4 | 4.13 | 5.80 | 107.0 | 37.6 | 90.0 | 21.3 |
| | | 11000 | ½ - 2 15/16 | 8.61 | 3.96 | 8.88 | 5.79 | 2.26 | 0.163 | 0.230 | 4.21 | 1.48 | 3.50 | 47 |
| QF500 | F | 3390 | 45 - 90 | 270.0 | 119.1 | 273.6 | 177.8 | 66.8 | 4.89 | 6.40 | 132.6 | 41.4 | 102.3 | 44.9 |
| | | 30000 | 1 - 4 | 10.63 | 4.69 | 10.77 | 7.00 | 2.63 | 0.193 | 0.250 | 5.22 | 1.63 | 4.05 | 99 |

Notes: ■ 1 indicates: Available with low-speed split cover only.
 ■ Bushing limits torque rating and speed rating.
 ■ Lovejoy is not affiliated with Baldor, owner of the QD® trademark.

Bushing-Style Interchange Couplings

Taper-Lock® Style Hubs

QUICK FLEX TAPER-LOCK® Style Hubs



Note: Bushings are not supplied with QUICK FLEX bushing-style interchange coupling hubs. Bushing-style couplings are available with all cover and insert options.

Fig. 34. QUICK FLEX Taper-Lock® style hubs.

Table 51. QUICK FLEX TAPER-LOCK® Style Hub Dimensions

| Coupling Series | Bushing Type | Bushing Torque Rating Nm in-lbs | Bore Range mm in | Maximum RPM | A | C | D1 | D2 | F | G _{Min} | G _{Max} | H | L1 | Wt. |
|-----------------|--------------|---------------------------------------|------------------------|-------------|----------|----------|----------|----------|----------|------------------|------------------|----------|----------|-----------|
| | | | | | mm in | mm in | mm in | mm in | mm in | mm in | mm in | mm in | mm in | kg lbs |
| QF5 | 1108 | 136 | 14 - 25 | 5000 | 70.9 | 26.2 | 63.2 | 50.8 | 22.6 | 2.47 | 2.30 | 34.8 | 17.8 | 1.8 |
| | | 1200 | ½ - 1 ⅛ | | 2.79 | 1.03 | 2.49 | 2.00 | 0.89 | 0.097 | 0.092 | 1.37 | 0.70 | 4 |
| QF25 | 1610 | 486 | 14 - 40 | 4500 | 92.5 | 50.8 | 106.9 | 81.0 | 26.2 | 2.83 | 5.20 | 43.4 | 18.8 | 3.6 |
| | | 4300 | ½ - 1 ¾ | | 3.64 | 2.00 | 4.21 | 3.19 | 1.03 | 0.111 | 0.205 | 1.71 | 0.74 | 8 |
| QF50 | 2012 | 808 | 14 - 48 | 4000 | 108.2 | 61.5 | 139.7 | 89.4 | 38.4 | 1.81 | 5.30 | 53.3 | 31.5 | 6.4 |
| | | 7150 | ½ - 1 ⅞ | | 4.26 | 2.42 | 5.50 | 3.52 | 1.51 | 0.071 | 0.208 | 2.10 | 1.24 | 14 |
| QF100 | 2517 | 1311 | 14 - 65 | 3200 | 172.2 | 88.4 | 177.8 | 108.0 | 75.7 | 4.35 | 7.40 | 83.8 | 41.9 | 11.3 |
| | | 11600 | ¾ - 2 11/16 | | 6.78 | 3.48 | 7.00 | 4.25 | 2.98 | 0.171 | 0.290 | 3.30 | 1.65 | 25 |
| QF175 | 3020 | 2712 | 24 - 75 | 2800 | 196.9 | 93.2 | 203.2 | 139.7 | 79.2 | 6.41 | 5.30 | 96.0 | 51.8 | 15.4 |
| | | 24000 | 1 ⅛ - 3 ¼ | | 7.75 | 3.67 | 8.00 | 5.50 | 3.12 | 0.253 | 0.208 | 3.78 | 2.04 | 34 |
| QF250 | 3020 | 2712 | 24 - 75 | 2500 | 202.9 | 100.6 | 225.3 | 147.1 | 83.6 | 4.13 | 5.80 | 99.1 | 53.3 | 20.9 |
| | | 24000 | 1 ⅛ - 3 ¼ | | 7.99 | 3.96 | 8.87 | 5.79 | 3.29 | 0.163 | 0.230 | 3.90 | 2.10 | 46 |

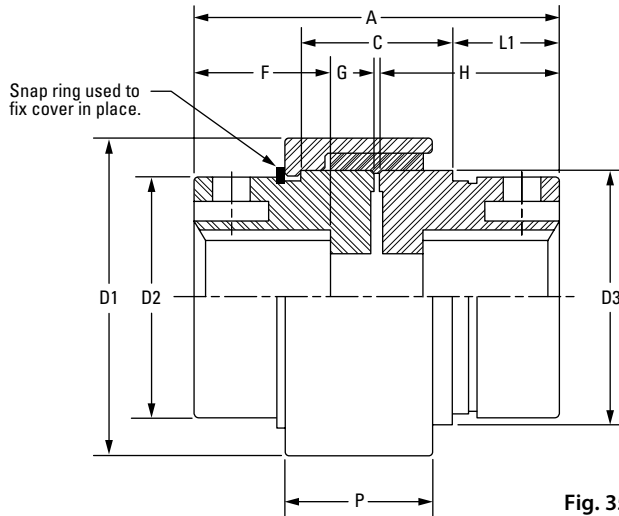
Notes: ■ Bushing limits torque rating and speed rating.
 ■ Lovejoy is not affiliated with Reliance Electric Industrial Company, owner of the TAPER-LOCK® trademark.

Splined-Hub Couplings

Splined Hubs

QUICK FLEX Splined Hubs

All of our splined-hub couplings come standard with blind set screws. Since the set screws never touch the shaft, there is never any damage to the splined shaft, all the while spreading the pressure over a larger area for a tighter compression.



Note: Splined-hub couplings are available with all cover and insert options.

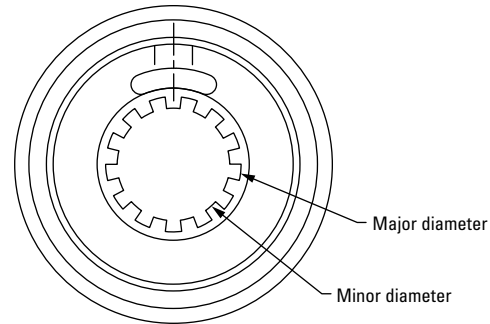


Fig. 35. QUICK FLEX splined hubs.

Table 52. QUICK FLEX Splined-Hub Dimensions

| Part Number | Coupling Series | Spline Form | | | | |
|-----------------|-----------------|--------------|-----------------|----------------|----------------|----------------|
| | | No. of Teeth | Pitch | Pitch Diameter | Major Diameter | Minor Diameter |
| | | | in | in | in | in |
| QF25SPL13T16/32 | QF25 | 13 | $\frac{16}{32}$ | 0.813 | 0.897 | 0.750 |
| QF25SPL13T8/16 | QF25 | 13 | $\frac{8}{16}$ | 1.625 | 1.794 | 1.500 |
| QF25SPL14T12/24 | QF25 | 14 | $\frac{12}{24}$ | 1.167 | 1.283 | 1.087 |
| QF50SPL13T16/32 | QF50 | 13 | $\frac{16}{32}$ | 0.813 | 0.897 | 0.750 |
| QF50SPL13T8/16 | QF50 | 13 | $\frac{8}{16}$ | 1.625 | 1.794 | 1.500 |
| QF50SPL14T12/24 | QF50 | 14 | $\frac{12}{24}$ | 1.167 | 1.283 | 1.087 |

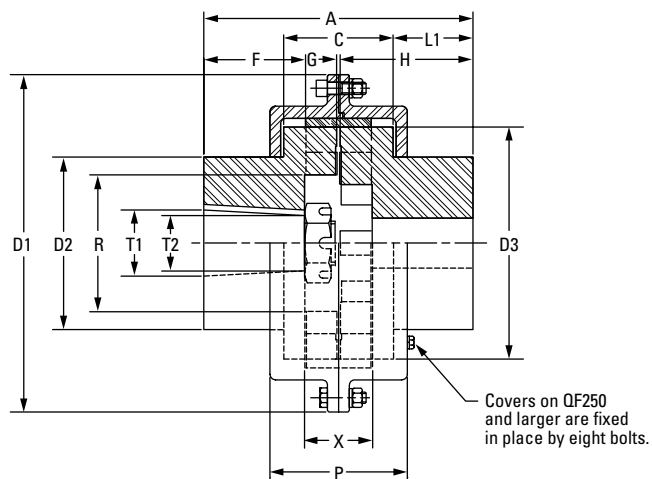
Table 52. QUICK FLEX Splined-Hub Dimensions, Continued

| Coupling Series | A | C | D1 | D2 | D3 | F | G _{Min} | G _{Max} | H | L1 | P | Wt. |
|-----------------|----------|----------|----------|----------|----------|----------|------------------|------------------|----------|----------|----------|-----------|
| | mm in | mm in | mm in | mm in | mm in | mm in | mm in | mm in | mm in | mm in | mm in | kg lbs |
| QF25 | 123.4 | 50.8 | 106.9 | 81.0 | 85.6 | 46.0 | 2.83 | 5.30 | 60.7 | 36.1 | 49.5 | 4.5 |
| | 4.86 | 2.00 | 4.21 | 3.19 | 3.37 | 1.81 | 0.111 | 0.210 | 2.39 | 1.42 | 1.95 | 10 |
| QF25 | 123.4 | 50.8 | 106.9 | 81.0 | 85.6 | 46.0 | 2.83 | 5.30 | 60.7 | 36.1 | 49.5 | 4.5 |
| | 4.86 | 2.00 | 4.21 | 3.19 | 3.37 | 1.81 | 0.111 | 0.210 | 2.39 | 1.42 | 1.95 | 10 |
| QF25 | 123.4 | 50.8 | 106.9 | 81.0 | 85.6 | 46.0 | 2.83 | 5.30 | 60.7 | 36.1 | 49.5 | 4.5 |
| | 4.86 | 2.00 | 4.21 | 3.19 | 3.37 | 1.81 | 0.111 | 0.210 | 2.39 | 1.42 | 1.95 | 10 |
| QF25 | 151.4 | 61.5 | 139.2 | 89.4 | 114.0 | 54.9 | 1.81 | 5.30 | 75.2 | 45.2 | 60.5 | 7.7 |
| | 5.96 | 2.42 | 5.48 | 3.52 | 4.49 | 2.16 | 0.071 | 0.210 | 2.96 | 1.78 | 2.38 | 17 |
| QF50 | 151.4 | 61.5 | 139.2 | 89.4 | 114.0 | 54.9 | 1.81 | 5.30 | 75.2 | 45.2 | 60.5 | 7.7 |
| | 5.96 | 2.42 | 5.48 | 3.52 | 4.49 | 2.16 | 0.071 | 0.210 | 2.96 | 1.78 | 2.38 | 17 |
| QF50 | 151.4 | 61.5 | 139.2 | 89.4 | 114.0 | 54.9 | 1.81 | 5.30 | 75.2 | 45.2 | 60.5 | 7.7 |
| | 5.96 | 2.42 | 5.48 | 3.52 | 4.49 | 2.16 | 0.071 | 0.210 | 2.96 | 1.78 | 2.38 | 17 |

Mill-Motor Couplings

Mill-Motor Style Hubs

QUICK FLEX Mill-Motor Style Hubs



Note: Mill-motor style couplings are available with all cover and insert options.

Fig. 36. QUICK FLEX mill-motor style hubs.

Table 53. QUICK FLEX Mill-Motor Hub Dimensions

| Motor Frame Sizes | | | Coupling | A | C | D1 | D2 | D3 | F | G _{Min} | G _{Max} | H | L1 | P | R | T1 ¹ | T2 ¹ | X | Wt. | |
|-------------------|----------------|---------------|--------------------|--------|-------|-------|-------|-------|-------|------------------|------------------|-------|-------|-------|-------|-----------------|-----------------|------|-------|----|
| 600 Series | 800 Series | AC Series | | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | kg |
| 2 602 | 802 A, B, C | AC 1, 2, 4 | QF100 ² | 179.6 | 88.4 | 227.3 | 108.0 | 150.4 | 62.5 | 4.35 | 9.70 | 86.4 | 44.7 | 118.4 | 77.5 | 43.00 | 36.50 | 55.6 | 21.3 | |
| | | | | 7.07 | 3.48 | 8.95 | 4.25 | 5.92 | 2.46 | 0.171 | 0.380 | 3.40 | 1.76 | 4.66 | 3.05 | 1.694 | 1.438 | 2.19 | 47 | |
| | | | QF250 | 213.6 | 100.6 | 266.7 | 147.1 | 190.0 | 76.2 | 4.13 | 6.60 | 106.9 | 59.2 | 118.6 | 104.9 | 44.50 | 36.50 | 63.2 | 36.7 | |
| | | | | 8.41 | 3.96 | 10.50 | 5.79 | 7.48 | 3.00 | 0.163 | 0.258 | 4.21 | 2.33 | 4.67 | 4.13 | 1.751 | 1.438 | 2.49 | 81 | |
| 603 604 | 803 804 | | QF250 | 216.2 | 100.6 | 266.7 | 147.1 | 190.0 | 78.7 | 4.13 | 6.60 | 106.9 | 59.2 | 118.6 | 104.9 | 49.70 | 41.50 | 63.2 | 36.7 | |
| | | | | 8.51 | 3.96 | 10.50 | 5.79 | 7.48 | 3.10 | 0.163 | 0.258 | 4.21 | 2.33 | 4.67 | 4.13 | 1.958 | 1.635 | 2.49 | 81 | |
| | | | QF500 | 251.0 | 118.6 | 342.9 | 177.8 | 235.0 | 88.9 | 4.89 | 9.50 | 127.0 | 69.9 | 149.4 | 110.2 | 50.80 | 41.50 | 69.9 | 67.6 | |
| | | | | 9.88 | 4.67 | 13.50 | 7.00 | 9.25 | 3.50 | 0.193 | 0.375 | 5.00 | 2.75 | 5.88 | 4.34 | 2.000 | 1.635 | 2.75 | 149 | |
| 606 | 806 | AC 8,12 | QF250 ² | 216.2 | 100.6 | 266.7 | 147.1 | 190.0 | 78.7 | 4.13 | 6.60 | 106.9 | 59.2 | 118.6 | 104.9 | 61.10 | 52.90 | 63.2 | 36.7 | |
| | | | | 8.51 | 3.96 | 10.50 | 5.79 | 7.48 | 3.10 | 0.163 | 0.258 | 4.21 | 2.33 | 4.67 | 4.13 | 2.406 | 2.083 | 2.49 | 81 | |
| | | | QF500 | 257.3 | 118.6 | 342.9 | 177.8 | 235.0 | 95.3 | 4.89 | 9.50 | 127.0 | 69.9 | 149.4 | 110.2 | 62.80 | 52.90 | 69.9 | 67.6 | |
| | | | | 10.13 | 4.67 | 13.50 | 7.00 | 9.25 | 3.75 | 0.193 | 0.375 | 5.00 | 2.75 | 5.88 | 4.34 | 2.474 | 2.083 | 2.75 | 149 | |
| | | | QF1000 | 294.4 | 126.7 | 387.4 | 198.4 | 266.7 | 101.6 | 5.65 | 10.40 | 152.4 | 91.4 | 157.7 | 157.2 | 63.50 | 52.90 | 77.2 | 102.5 | |
| | | | | 11.59 | 4.99 | 15.25 | 7.81 | 10.50 | 4.00 | 0.223 | 0.410 | 6.00 | 3.60 | 6.21 | 6.19 | 2.500 | 2.083 | 3.04 | 226 | |
| 608 | 808 | - | QF500 ² | 257.3 | 118.6 | 342.9 | 177.8 | 235.0 | 95.3 | 4.89 | 9.50 | 127.0 | 69.9 | 149.4 | 110.2 | 74.20 | 64.30 | 69.9 | 67.6 | |
| | | | | 10.13 | 4.67 | 13.50 | 7.00 | 9.25 | 3.75 | 0.193 | 0.375 | 5.00 | 2.75 | 5.88 | 4.34 | 2.922 | 2.531 | 2.75 | 149 | |
| | | | QF1000 | 307.10 | 126.7 | 387.4 | 198.4 | 266.7 | 114.3 | 5.65 | 10.40 | 152.4 | 91.4 | 157.7 | 157.2 | 76.20 | 64.30 | 77.2 | 102.5 | |
| | | | | 12.09 | 4.99 | 15.25 | 7.81 | 10.50 | 4.50 | 0.223 | 0.410 | 6.00 | 3.60 | 6.21 | 6.19 | 3.000 | 2.531 | 3.04 | 226 | |
| | | | QF1890 | 341.9 | 150.1 | 450.9 | 241.3 | 325.1 | 114.3 | 6.62 | 11.50 | 184.4 | 113.0 | 185.9 | 193.0 | 76.20 | 64.30 | 85.1 | 186.0 | |
| | | | | 13.46 | 5.91 | 17.75 | 9.50 | 12.80 | 4.50 | 0.261 | 0.454 | 7.26 | 4.45 | 7.32 | 7.60 | 3.000 | 2.531 | 3.35 | 410 | |
| 610 | 810 | AC 18 | QF1000 | 307.1 | 126.7 | 387.4 | 198.4 | 266.7 | 114.3 | 5.65 | 10.40 | 152.4 | 91.4 | 157.7 | 155.4 | 82.60 | 70.60 | 77.2 | 102.5 | |
| | | | | 12.09 | 4.99 | 15.25 | 7.81 | 10.50 | 4.50 | 0.223 | 0.410 | 6.00 | 3.60 | 6.21 | 6.12 | 3.250 | 2.781 | 3.04 | 226 | |
| | | | QF1890 | 341.9 | 150.1 | 450.9 | 241.3 | 325.1 | 114.3 | 6.62 | 11.53 | 184.4 | 113.0 | 185.9 | 193.0 | 82.60 | 70.60 | 85.1 | 186.0 | |
| | | | | 13.46 | 5.91 | 17.75 | 9.50 | 12.80 | 4.50 | 0.261 | 0.454 | 7.26 | 4.45 | 7.32 | 7.60 | 3.250 | 2.781 | 3.35 | 410 | |
| 612 | 812 | AC 25,30 | QF1000 | 309.6 | 126.7 | 387.4 | 198.4 | 266.7 | 116.8 | 5.65 | 10.41 | 152.4 | 91.4 | 157.7 | 157.2 | 91.00 | 78.80 | 77.2 | 102.5 | |
| | | | | 12.19 | 4.99 | 15.25 | 7.81 | 10.50 | 4.60 | 0.223 | 0.410 | 6.00 | 3.60 | 6.21 | 6.19 | 3.583 | 3.104 | 3.04 | 226 | |
| | | | QF1890 | 354.6 | 150.1 | 450.9 | 241.3 | 325.1 | 127.0 | 6.62 | 11.53 | 184.4 | 113.0 | 185.9 | 193.0 | 92.10 | 78.80 | 85.1 | 186.0 | |
| | | | | 13.96 | 5.91 | 17.75 | 9.50 | 12.80 | 5.00 | 0.261 | 0.454 | 7.26 | 4.45 | 7.32 | 7.60 | 3.625 | 3.104 | 3.35 | 410 | |
| 614 | 814 | AC 40,50 | QF1890 | 354.6 | 150.1 | 450.9 | 241.3 | 325.1 | 127.0 | 6.62 | 11.53 | 184.4 | 113.0 | 185.9 | 193.0 | 108.00 | 94.70 | 85.1 | 186.0 | |
| | | | | 13.96 | 5.91 | 17.75 | 9.50 | 12.80 | 5.00 | 0.261 | 0.454 | 7.26 | 4.45 | 7.32 | 7.60 | 4.250 | 3.729 | 3.35 | 410 | |

Notes: ■ 1 indicates: Standard mill-motor taper (1.25 in per foot on diameter).

■ 2 indicates: May need to use standard socket to tighten mill motor nut. Impact socket may not fit.

Notes

Storage of Components

Storage of Components

Lovejoy suggests the following storage guidelines for its coupling components (hereinafter referred to as “products”):

- Unless directed otherwise by Lovejoy, products should be kept in their original packaging until they are ready to be placed into service.
- Do not remove or alter any labels or stencil markings on the packaging.
- Products should be stored in such a way that the packaging is not pierced, crushed or otherwise damaged.
- After a product is removed from its packaging, it should be placed into service as soon as possible.
- When removing a product that is not individually packaged from a bulk pack container, the container should be resealed immediately after the product is removed.
- The relative humidity should be maintained below 60 percent and the surfaces should be dry.
- The storage area should be kept free from airborne contaminants such as, but not limited to, dust, dirt, harmful vapors, etc.
- Extreme conditions of any kind should be avoided.

Inasmuch as Lovejoy is not familiar with a customer’s particular storage conditions, these guidelines are strongly suggested. However, the customer may very well be required by circumstance or applicable government requirements to adhere to stricter storage requirements.

Upon receipt of a product shipment, ensure that the product is not removed from its packaging until it is ready for mounting so that it does not become corroded or contaminated. Product should be stored in an appropriate atmosphere in order that it remains protected for the intended period.

Any questions concerning storage should be directed to your local sales office.

QUICK FLEX® Couplings

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