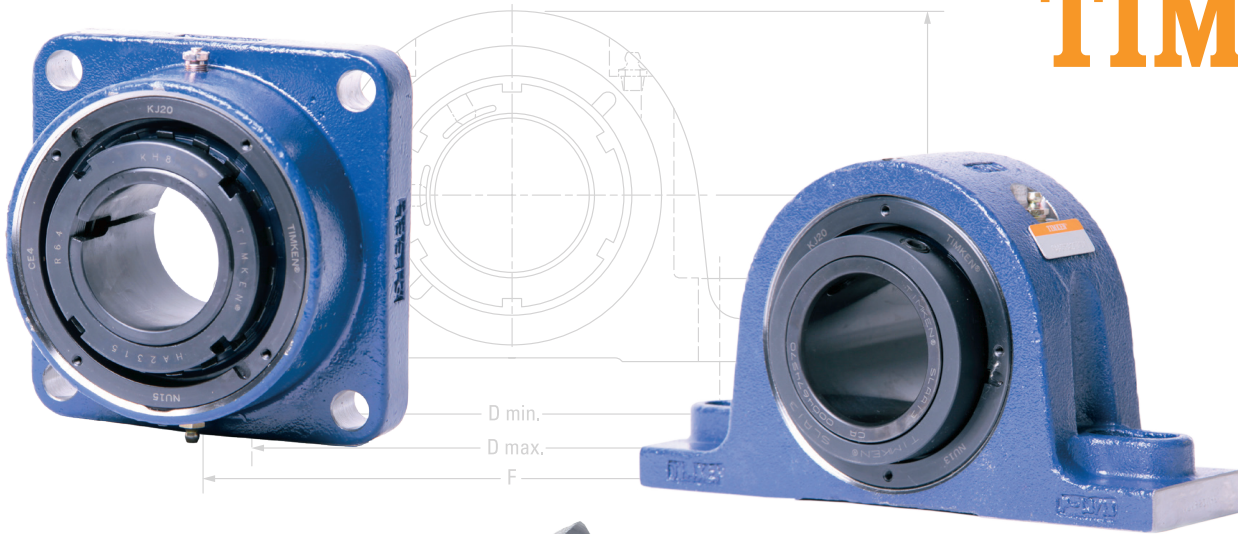


TIMKEN



TIMKEN® SPHERICAL ROLLER BEARING SOLID-BLOCK HOUSED UNIT CATALOG



ABOUT THE TIMKEN COMPANY

As a global leader in bearings and power transmission systems, Timken focuses on precise solution design, materials and craftsmanship to deliver reliable and efficient performance that improves productivity and uptime. Timken offers a full range of bearings, belts, chains, couplings, gears and lubricants, along with rebuild and repair services.

Timken (NYSE; TKR; www.timken.com) applies its proven expertise in metallurgy, tribology and mechanical power transmission to create innovative approaches to customers' complex needs. Global availability of products and engineering talent, combined with exceptional service delivery across markets, makes Timken a preferred choice worldwide.

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INTRODUCTION

When your equipment faces harsh environments, you need roller bearing housed units that are rugged enough to withstand tough conditions and deliver exceptional performance.

You gain both with Timken® spherical roller bearing solid-block housed units.

Designed specifically to perform under extreme conditions, Timken solid-block housed units are able to accept a total of 1.5 degrees misalignment and withstand the impact of falling debris. Additional misalignment can be accommodated for applications with lighter loads, contact your Timken engineer for details. Made of cast-steel housings and Timken double-row spherical roller bearings, their unique sealing design offers protection from contaminants.

Increased performance and durability help decrease the overall cost of ownership.

CUSTOMIZABLE DESIGN FEATURES TO FIT YOUR EQUIPMENT

With a full line of precision-made shaft-locking styles, seals and housings, it's easy to find the right housed unit to fit your application. Timken spherical roller bearing solid-block housed units interchange with a wide range of mounted roller bearings. Choose from many primary and secondary sealing mechanisms, and you decide how it's built without paying custom charges.

HOUSING STYLES

- Two-bolt pillow blocks
- Four-bolt pillow blocks
- Flange blocks
- Piloted flanges
- Take-up blocks
- Cartridge units
- Hanger blocks

LOCKING STYLES

- Eccentric lock
- Concentric lock (set screw) – single or double collar
- Tapered adapter lock – single or double nut
- V-Lock® double tapered lock – single or double nut

SEALS

- Labyrinth seals – DuPont™ Teflon®:
 - High-speed applications
 - Superior in dirty and wet conditions
 - Able to operate at high temperatures
 - Resistant to most chemicals
 - Abrasion-resistant
- Triple-lip seals – nitrile:
 - Self-purging
 - Excellent in dirty and wet applications
 - Chemical- and corrosion-resistant
- Triple-lip seals – urethane:
 - All the benefits of nitrile, plus resistance to abrasion

SECONDARY SEALS

- Closed-end covers
- Open-end covers with:
 - Triple-lip seal
 - DuPont Teflon
 - V-ring seal
- Piloted-flange cartridge backing plates with:
 - Triple-lip seal
- Flange block backing plates with V-ring seal or Teflon seal

HOUSING COATINGS

- Powder coating – standard
- Nickel plating – optional
- Fluoropolymer coating – optional



Fig. 1. Two-bolt pillow block.



Fig. 2. Four-bolt pillow block.

OUTLASTING THE COMPETITION

Timken solid-block housed units last a long time, yet you don't pay extra for reliability. Experience an increase in performance and durability and a decrease in your overall cost of ownership when you use a Timken solid-block housed unit.

STANDS UP TO HARSH CONDITIONS

Protects Bearing. Harsh operating environments and lubrication issues often lead to housed unit bearing damage. Timken solid-block housed units multiply protection with primary and secondary seal options, as well as steel covers in sizes to fit these units. The space between the primary and secondary seals offers a fillable grease cavity for more protection.

Handles Misalignment. Without a properly aligned shaft, the life expectancy of most housed units decreases. However, Timken spherical roller bearing solid-block housed units accept a total of 1.5 degrees of misalignment, thanks to their unique design and Timken spherical roller bearings. Additional misalignment can be accommodated for applications with lighter loads, contact your Timken engineer for details.

INDUSTRIES AND APPLICATIONS

- Metal mills
- Aggregate and cement
- Mining
- Power generation
- Sawmills and other forest process industries
- Pulp and paper
- Material conveying
- Commercial and industrial building equipment
- Sugar mills
- Agriculture
- Waste management and water treatment
- Off-highway and construction vehicles
- HVAC, fans and blowers
- Cranes, lifts and hoists

DEPENDABLE SERVICE

Every Timken spherical roller bearing solid-block housed unit is backed by the service of our industry-leading experts who are ready to assist you with product design, application knowledge and field engineering support – anything you need to help improve uptime and maximize equipment performance.



Fig. 3. Flange block.



Fig. 4. Take-up block.



Fig. 5. Piloted-flange cartridge.



Fig. 6. Cartridge block.

SOLID-BLOCK HOUSED UNIT BENEFITS

Depending on how you configure your bearing for a specific application, there's a wide range of product benefits.

- Multiple available sizes accommodate shaft diameters from 35 mm to 380 mm (1 7/16 in. to 15 in.).
- Efficient built-to-order manufacturing. Quick delivery of customized configurations for specific applications.
- Quicker installation. Machined feet, tapped puller holes, black oxide inner rings and multiple shaft-locking choices make it simpler to install this heavy-duty unit.
- Improved performance in high-contaminant environments. Wide selection of primary and secondary seals, as well as auxiliary covers.
- Bidirectional shaft expansion. Double-nut housing feature allows expansion in both directions.
- Increased uptime. Robust steel housing, a wide variety of seal choices and a high-performance Timken spherical roller bearing result in increased unit uptime.
- Increased shaft holding power and reduced shaft damage. Eccentric lock series is designed to stay tight in reversing applications on precision-ground shafts.
- Fewer misalignment issues. Bearings accept up to 1.5 degrees of misalignment.
- Protection against over-lubrication. Pressure relief valves come standard when unit is ordered with non-purgeable seals.
- Dimensionally interchanges with a wide range of other mounted roller bearing units.
- One-time shaft alignment on all housing unit styles. Machined feet ends allow for precise installation and blocking for faster future unit replacement.
- Easier removal with standard withdrawal holes on all piloted-flange units.
- Faster and easier changeover thanks to a comprehensive product offering that interchanges with virtually all solid-block roller bearing units.

SOLID-BLOCK HOUSED UNIT DESIGN

Flexibility through interchangeable components.

Double-row spherical roller bearing accepts misalignment

Black oxide inner ring reduces shaft fretting corrosion

Six primary seals in any combination:

- T seal standard labyrinth (DuPont Teflon)
- M seal standard lip (nitrile rubber)
- N seal optional (Viton™)
- O seal optional (urethane)
- B seal optional (nitrile rubber)
- C seal optional (Viton)

Housing fit: J7, size-for-size to light interference

Standard relief valve

Optional bolt-on open and closed steel or urethane secondary seals

Lubricated with premium industrial grease

Shaft-locking styles:

- Set screw
- Eccentric
- Tapered adapter
- V-Lock double tapered lock

Easily converted to fixed or expansion in the field

Housing can be supplied with powder coating (standard), nickel plating or fluoropolymer coatings

Housing manufactured from 75000 psi tensile cast steel that retains the bearing-to-housing fit for those rough applications

Machined feet aid in rapid installation and alignment

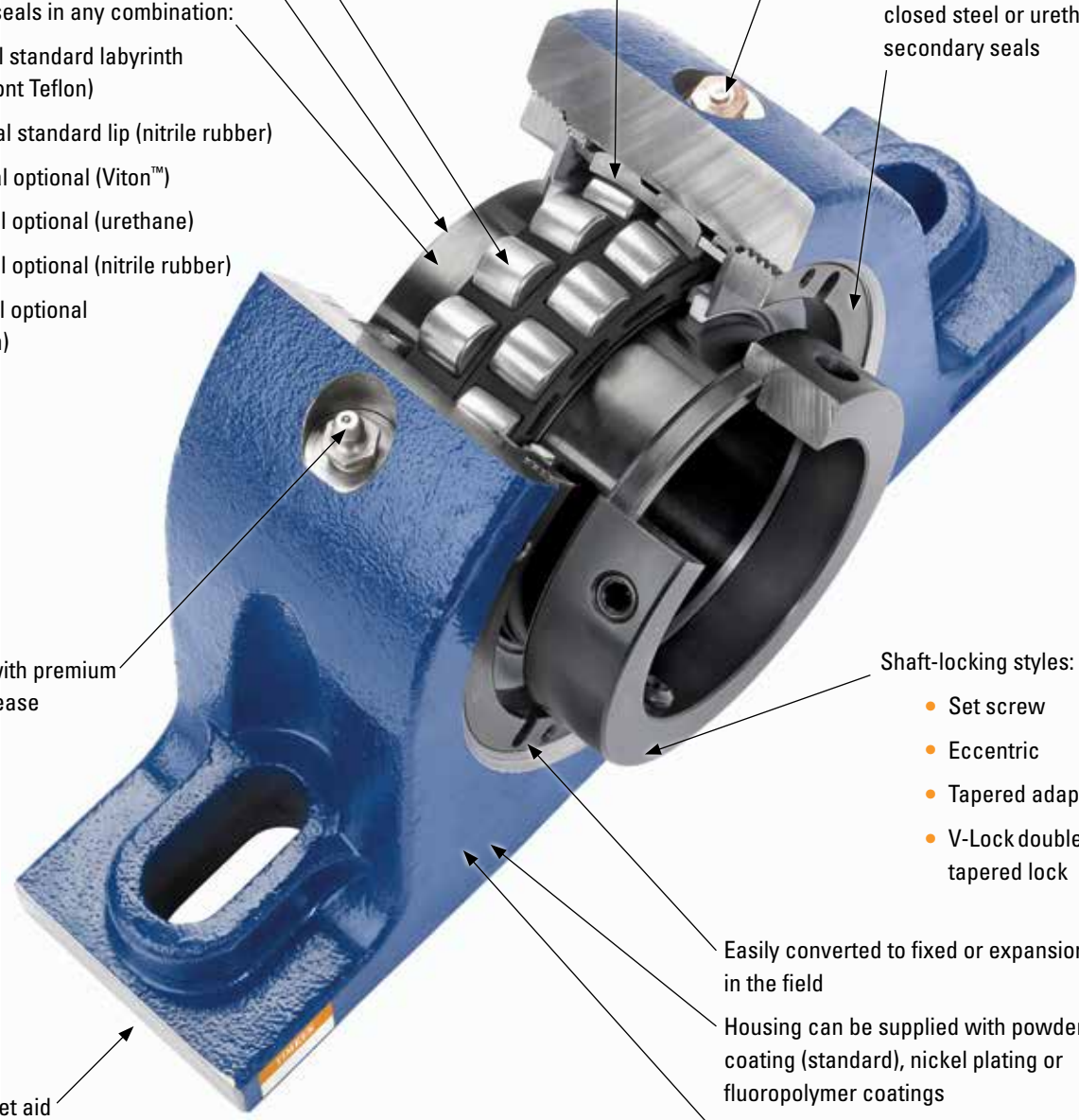


Fig. 7. High performance plus superior ruggedness.

HOW TO USE THIS CATALOG

We designed this catalog to help you find the Timken spherical roller bearing solid-block housed units best suited to your specifications.

Timken offers an extensive range of bearings and accessories in both imperial and metric sizes. For your convenience, size ranges are indicated in millimeters and inches. Contact your Timken engineer to learn more about our complete line for the special needs of your application.

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.



SHELF LIFE AND STORAGE OF GREASE-LUBRICATED BEARINGS AND COMPONENTS

To help you get the most value from our products, Timken provides guidelines for the shelf life of grease-lubricated ball and roller bearings, components and assemblies. Shelf life information is based on Timken and industry test data and experience.

SHELF LIFE

Shelf life should be distinguished from lubricated bearing/component design life as follows:

Shelf life of the grease-lubricated bearing/component represents the period of time prior to use or installation.

The shelf life is a portion of the anticipated aggregate design life. It is impossible to accurately predict design life due to variations in lubricant bleed rates, oil migration, operating conditions, installation conditions, temperature, humidity and extended storage.

TIMKEN IS NOT RESPONSIBLE FOR THE SHELF LIFE OF ANY BEARING/COMPONENT LUBRICATED BY ANOTHER PARTY.

European REACH compliance

Timken lubricants, greases and similar products sold in standalone containers or delivery systems are subject to the European REACH (Registration, Evaluation, Authorization and Restriction of CHemicals) directive. For import into the European Union, Timken can sell and provide only those lubricants and greases that are registered with ECHA (European CHemical Agency). For further information, please contact your Timken engineer.

STORAGE

Timken suggests the following storage guidelines for our finished products (bearings, components and assemblies, referred to as "products"):

- Unless directed otherwise by Timken, 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 storage area temperature should be maintained between 0° C and 40° C; temperature fluctuations should be minimized.
- 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.
- The storage area should be isolated from undue vibration.
- Extreme conditions of any kind should be avoided.

Due to the fact that Timken is not familiar with your particular storage conditions, we strongly suggest following these guidelines. However, you may be required by circumstances or applicable government requirements to adhere to stricter storage requirements.

Most bearing components typically ship protected with a corrosion-preventive compound that is not a lubricant. These components may be used in oil-lubricated applications without removal of the corrosion-preventive compound. When using some specialized grease lubrications, we advise you to remove the corrosion-preventive compound before packing the bearing components with suitable grease.

Be careful in selecting lubrication, however, since different lubricants are often incompatible.

When you receive a bearing shipment, do not remove products from their packaging until they are ready for mounting so they do not become corroded or contaminated.

Store bearings and bearing housings in an appropriate atmosphere so they remain protected for the intended period.

WARNINGS



WARNING

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

Proper maintenance and handling practices are critical. Always follow installation instructions and maintain proper lubrication.

Overheated bearings can ignite explosive atmospheres. Special care must be taken to properly select, install, maintain and lubricate housed unit bearings that are used in or near atmospheres that may contain explosive levels of combustible gases or accumulations of dust such as grain, coal, or other combustible materials. Consult your equipment designer or supplier for installation and maintenance instructions.

If hammer and bar are used for installation or removal of a part, use a mild steel bar (e.g., 1010 or 1020 grade). Mild steel bars are less likely to cause release of high speed fragments from the hammer or bar or the part being installed or removed.



CAUTION

Failure to follow these cautions may result in property damage.

Do not use damaged housed units.

Warnings for this product line are in this catalog and posted on www.timken.com/en-us/products/warnings

NOTE

Do not use excessive force when mounting or dismantling the unit.

Follow all tolerance, fit, and torque recommendations.

Always follow the Original Equipment Manufacturer's installation and maintenance guidelines.

Ensure proper alignment.

Never weld housed units.

Do not heat components with an open flame.

Do not operate at bearing temperatures above 250° F (121° C).

When converting a solid-block housed unit bearing from fixed to expansion, it is imperative that the unit that is going to be converted is correctly oriented. Since the insert in a steel housed unit flange bearing is held against either a shoulder or snap ring

opposite the housing retaining nut, a flange bearing that has been converted to expansion can only float in the direction of the retaining nut. Based on this, the retaining nut must be on the side of the housing opposite the fixed bearing.

When converting a solid-block housed unit from expansion to fixed on a mounted bearing, the locking-collar set screws must be released to allow the insert to move both in the housing and on the shaft.

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 Timken. Therefore, the suitability and feasibility of all product selection must be validated by you.

Timken products are sold subject to our terms and conditions of sale, which include its limited warranty and remedy, which terms may be found at <https://www.timken.com/legal-notices/termsandconditionsofsale/>

Please consult with your Timken 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.

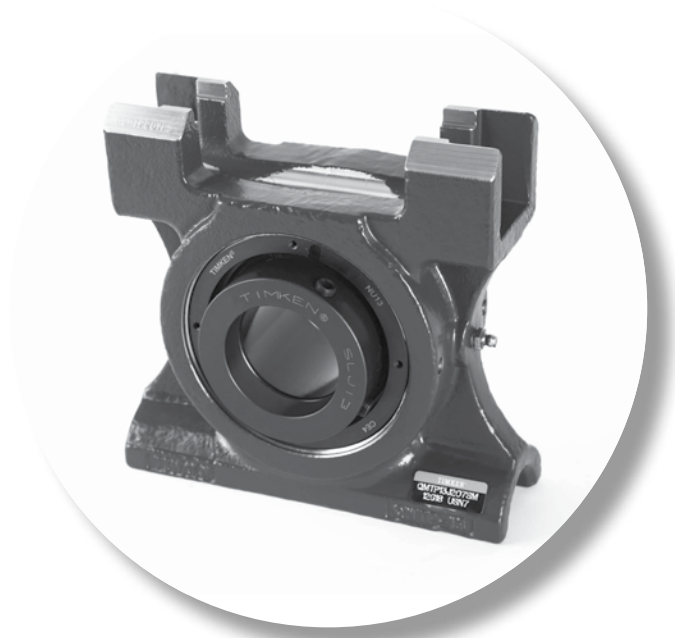
COMPLIANCE

To view the complete engineering catalog, please visit www.timken.com. To order the catalog, please contact your Timken sales engineer and request a copy of the Timken Engineering Manual (order number 10424).

The Timken Company products shown in this catalog may be directly, or indirectly subject to a number of regulatory standards and directives originating from authorities in the USA, European Union, and around the world, including: REACH (EC 1907/2006, RoHS (2011/65/EU), ATEX (94/9/EC), 'CE' MARKING (93/68/EEC), CONFLICT MINERALS (Section 1502 of the Dodd-Frank Wall Street Reform and Consumer Protection Act).

For any questions or concerns regarding whether Timken products comply with these, or other regulatory standards or directives, please contact your Timken engineer or customer services representative.

Updates are made periodically to this catalog. Visit www.timken.com for the most recent version of the Timken Spherical Roller Bearing Solid-Block Housed Unit Catalog.



ENGINEERING

The following topics are covered within this section:

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NOMENCLATURE **ORDERING SOLID-BLOCK HOUSED UNITS**

Every solid-block housed unit is made of cast steel for greater strength (compared to cast iron). All bearings feature a double-row, spherical roller bearing design for a high load-carrying capacity, misalignment tolerance and reduced friction.

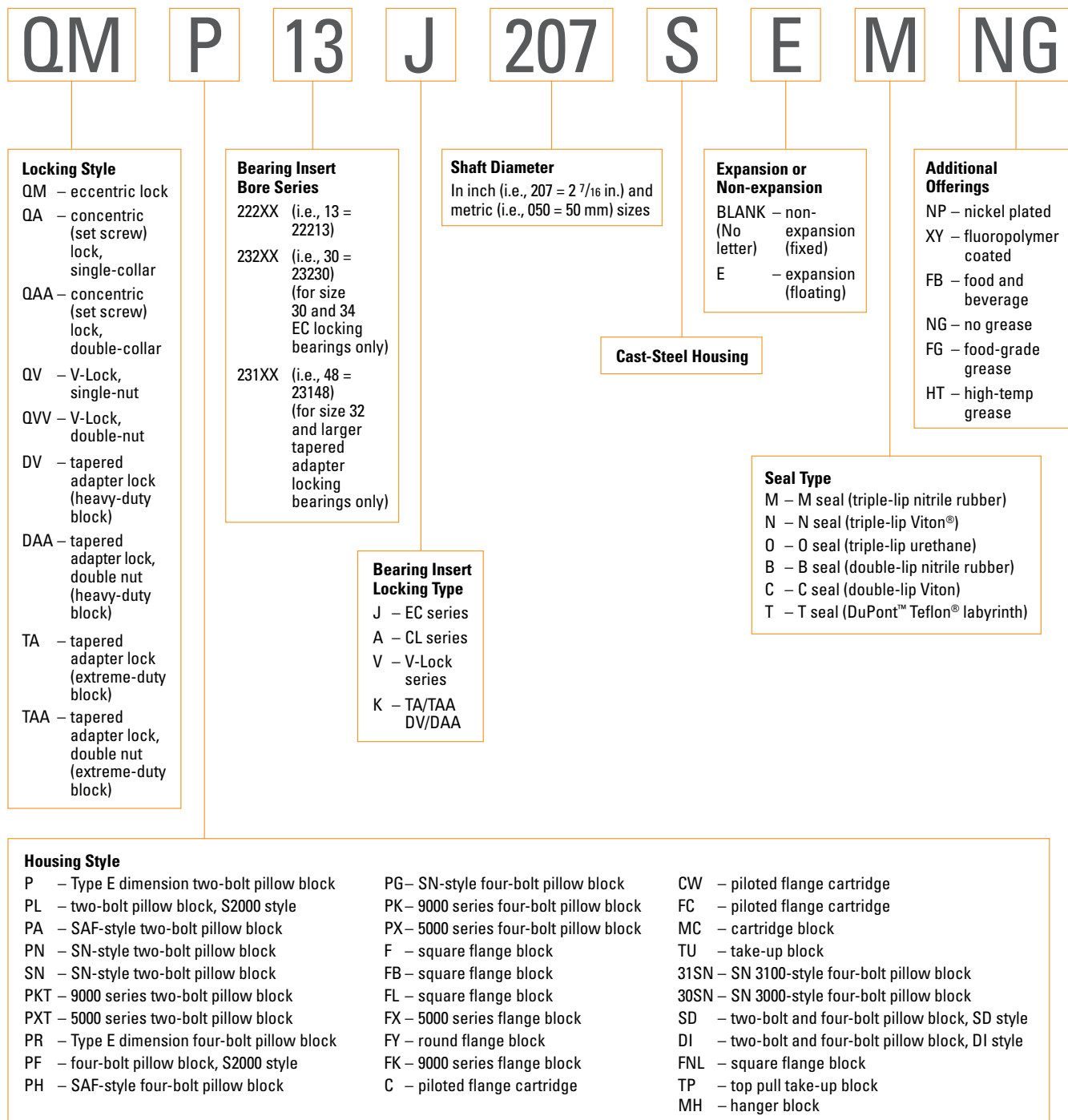
Starting with these standard design advantages, you can choose from a wide range of sizes, locking styles, seal options and housing styles suited precisely for your application.

There are many ways to determine the correct solid-block housed unit part number for ordering purposes:

- Once you determine the best locking style, housing and seal options for your application, you can easily find the correct part number in the tables included in the following sections.
- If you are ordering a replacement for an existing housed unit, locate the part number for that housed unit on the housing tag.
- If none of the above apply, or if you have additional questions or concerns about ordering the correct housed unit, contact your Timken engineer.

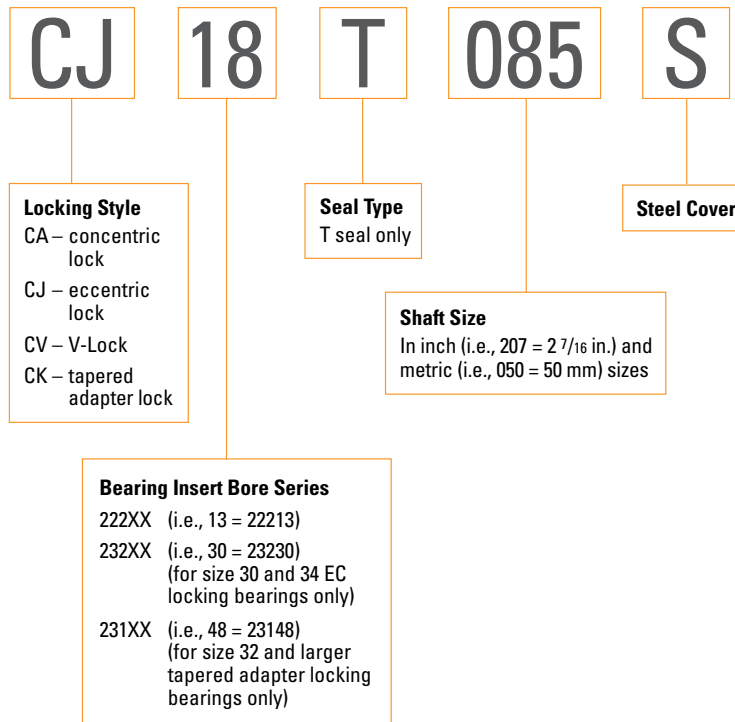


SPHERICAL ROLLER BEARING SOLID-BLOCK HOUSED UNIT



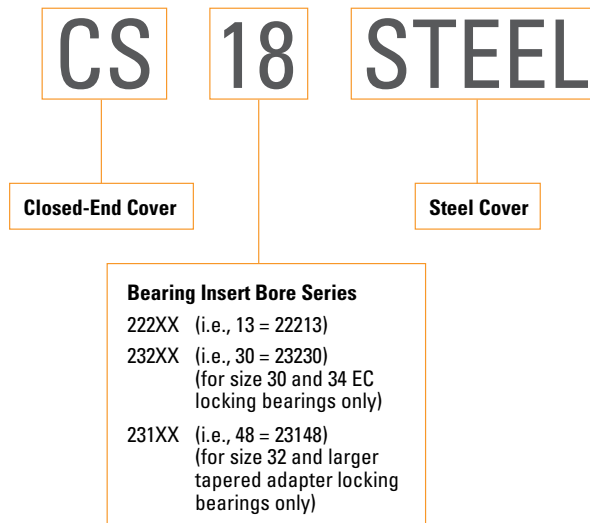
STEEL COVER

OPEN-END STEEL COVER



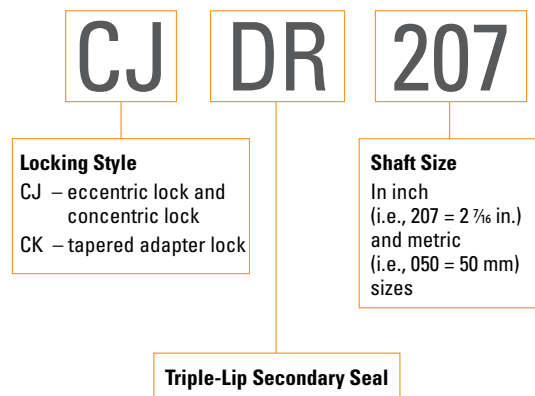
STEEL COVER

CLOSED-END STEEL COVER

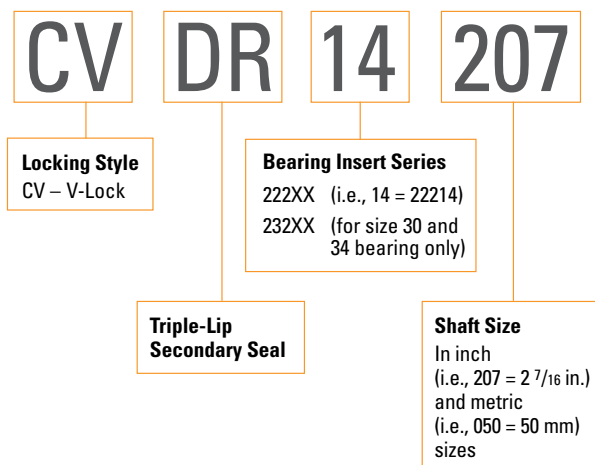


URETHANE COVER

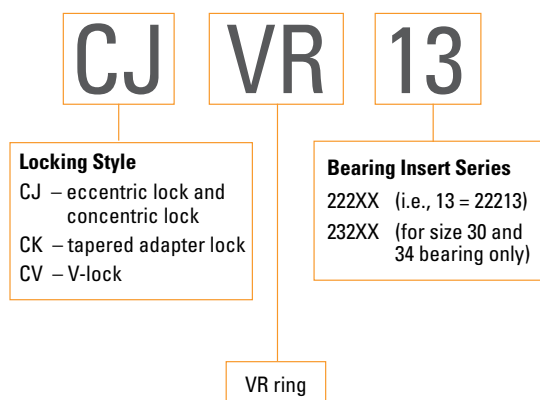
OPEN-END COVER WITH DR SEAL



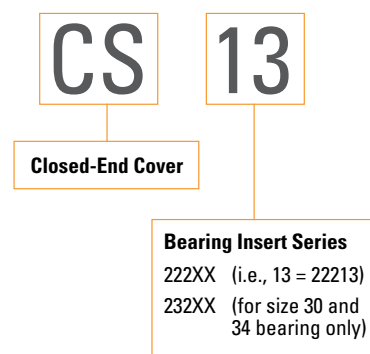
V-LOCK OPEN-END COVER WITH DR SEAL



OPEN-END COVER WITH VR SEAL



CLOSED-END COVER



BACKING PLATE
CL AND EC SERIES BEARINGS

UFP

**Square Flange
Urethane
Backing Plate
with VR Seal**

207

Shaft Size
In inch (i.e., 207 = 2 7/16 in.) and
metric (i.e., 050 = 50 mm) sizes

HSY

**Piloted Flange
Urethane
Backing Plate
with DR Seal**

207

Shaft Size
In inch (i.e., 207 = 2 7/16 in.) and
metric (i.e., 050 = 50 mm) sizes

HIGH-PERFORMANCE STEEL BACKING PLATE
CL and EC series bearings

BP

Backing Plate

10

Bearing Insert Series
222XX (i.e., 10 = 22210)

T

Seal Type
T – T seal (DuPont
Teflon labyrinth)

115

Shaft Size
In inch (i.e., 207 = 2 7/16 in.) and
metric (i.e., 050 = 50 mm) sizes

S

Steel

COMPARISON CHART

TABLE 1. COMPARISON CHART

| | Housing Type | Primary Seals | | | | | | Secondary Seals and Covers | | | | | |
|--|--------------------------|---------------|---|---|---|---|---|----------------------------|----|---|------------------|------------------------------------|-------------------|
| | | M | N | O | B | C | T | Open-End Cover | | | Closed-End Cover | HSY Flange Cartridge Backing Plate | UFP Backing Plate |
| | | | | | | | | DR | VR | T | | DR | |
| V-Lock (Timken Exclusive Double Taper Lock) | Pillow Block | • | • | • | • | • | • | • | • | • | • | | |
| | Flange Block | • | • | • | • | • | • | • | • | • | • | | |
| | Piloted Flange Cartridge | • | • | • | • | • | • | • | • | • | • | | |
| | Take-up Block | • | • | • | • | • | • | • | • | • | • | | |
| | Cartridge Block | • | • | • | • | • | • | • | • | • | • | | |
| CL Series (Set Screw Lock) | Pillow Block | • | • | • | • | • | • | • | • | • | • | | |
| | Flange Block | • | • | • | • | • | • | • | • | • | • | | • |
| | Piloted Flange Cartridge | • | • | • | • | • | • | • | • | • | • | • | |
| | Take-up Block | • | • | • | • | • | • | • | • | • | • | | |
| | Cartridge Block | • | • | • | • | • | • | • | • | • | • | | |
| | Hanger Block | • | • | • | • | • | • | • | • | • | • | | |
| EC Series (Eccentric Lock) | Pillow Block | • | • | • | • | • | • | • | • | • | • | | |
| | Flange Block | • | • | • | • | • | • | • | • | • | • | | • |
| | Piloted Flange Cartridge | • | • | • | • | • | • | • | • | • | • | • | |
| | Take-up Block | • | • | • | • | • | • | • | • | • | • | | |
| | Cartridge Block | • | • | • | • | • | • | • | • | • | • | | |
| | Hanger Block | • | • | • | • | • | • | • | • | • | • | | |
| TA/TAA Series (Tapered Adapter Lock) | Pillow Block | • | • | • | • | • | • | • | • | • | • | | |
| | Flange Block | • | • | • | • | • | • | • | • | • | • | | |
| | Piloted Flange Cartridge | • | • | • | • | • | • | • | • | • | • | | |
| | Cartridge Block | • | • | • | • | • | • | • | • | • | • | | |
| DV/DAA Series (Tapered Adapter Lock) | Pillow Block | • | • | • | • | • | • | • | • | • | • | | |
| | Flange Block | • | • | • | • | • | • | • | • | • | • | | |
| | Piloted Flange Cartridge | • | • | • | • | • | • | • | • | • | • | | |

LOCKING STYLES

V-LOCK (DOUBLE-TAPERED LOCK) U.S. PAT. NO. 7344313

The V-Lock locking mechanism is excellent in high-speed applications and designed to maximize shaft-holding power and minimize the time needed for installation and removal as compared to conventional locking mechanisms. With no need for feeler gages during installation, the V-Lock locking mechanism offers superior holding power and is designed to eliminate overtightening. Mechanical withdrawal is a feature of double-nut units.

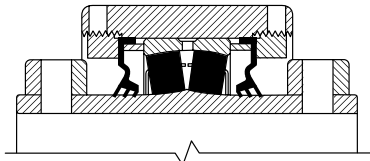


Fig. 8. V-Lock double tapered lock.

CONCENTRIC LOCK (SET SCREW) – CL SERIES

Two set screws positioned at 60 degrees provide aggressive holding power. When configured with a double-collared insert, the bearing provides double the holding power compared to our standard single-collared insert.

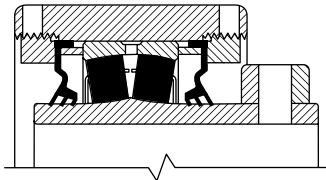


Fig. 9. Single set screw lock.

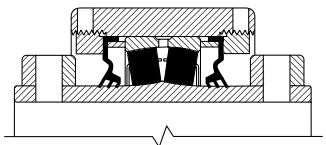


Fig. 10. Double set screw lock.

ECCENTRIC LOCK – EC SERIES

A reduced eccentric offset results in more mechanical advantage. This series provides a secure lock that should not release from a properly prepared shaft even in reversing applications.

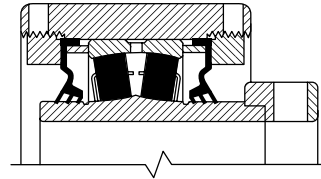


Fig. 11. Eccentric lock.

TAPERED ADAPTER LOCK – TA/TAA DV/DAA SERIES

Excellent in high-load applications, this design uses a longer 2300-series adapter for increased shaft contact. This design offers the best shaft concentricity and highest capacity all while having the ability to accommodate undersized shafting.

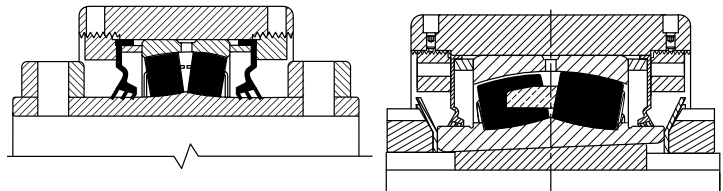


Fig. 12. Tapered adapter lock.

A simple design that in turn simplifies installation and removal of mounted bearings. The standard tapered adapter sleeve has been extended to accommodate a second nut on the back end. This nut is factory set for nominal shaft sizes and can be adjusted in the field to accommodate actual (under/over) shaft size if necessary.

HOUSING COATINGS

POWDER COATING – STANDARD

All of our steel housings come powder coated from the factory. Powder coating gives a hard finish that is tough and durable.

NICKEL PLATING – OPTIONAL

By nickel plating any of our housings, we are able to offer superior resistance to wear and corrosion.

FLUOROPOLYMER COATING – OPTIONAL

We have the ability to coat your housing with either industrial or food grade fluoropolymer for your washdown and/or food contact applications.

SEAL AND COVER OPTIONS

PRIMARY SEALS

Primary seals are installed between the inner ring of the bearing and the housing. They are held securely in place by the external housing nut. Primary seals can be contacting or non-contacting, purging or non-purging and are available in several material compounds for a variety of applications.

TRIPLE-LIP SEALS – CONTACTING, SELF-PURGING, LOW TO MODERATE SPEEDS⁽¹⁾

Timken offers three kinds of medium-contact triple-lip seals. Choose from seals made of nitrile synthetic rubber (acrylonitrile butadiene), Viton™ fluoroelastomer or urethane.

- **M Seal** – This seal, made of nitrile rubber, offers superior sealing in moist and dirty applications. It is chemical- and corrosion-resistant and provides excellent lubrication retention. It also allows excess grease to purge from the bearing cavity.
- **N Seal** – Made of Viton, this seal provides excellent chemical resistance and can operate at higher temperatures than nitrile rubber.
- **O Seal** – This seal, made of high-strength urethane for superior abrasion resistance.

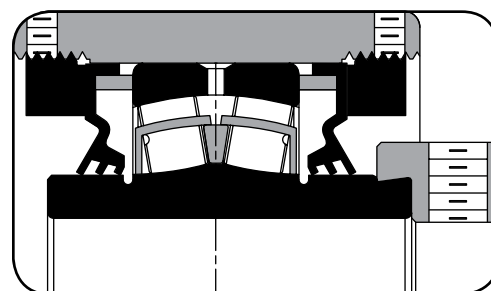


Fig. 13. Triple-lip seals.

LABYRINTH SEALS – NON-CONTACTING, NON-PURGING, ALL SPEEDS⁽²⁾

Instead of trying to form a seal with a single strong barrier, a labyrinth seal uses a winding passageway to accomplish the same reduction in flow. Not only is seal friction reduced, but so is seal wear.

- **T Seal** – This seal consists of a DuPont™ Teflon® ring pressed onto the inner ring of the bearing that floats between two pieces of formed steel to accommodate misalignment. When using this seal, the housing comes with a vent fitting. Developed for higher-speed applications involving dirty conditions or moisture-affected areas, it is able to operate at higher temperatures and is impervious to most chemicals.

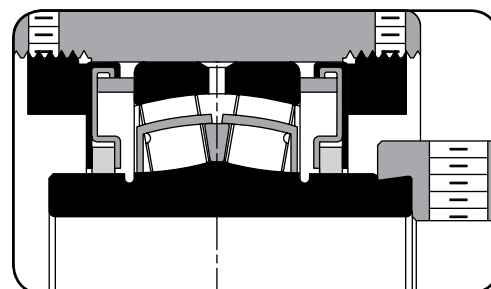


Fig. 14. T seal.

DOUBLE-LIP SEALS – CONTACTING, NON-PURGING, LOW SPEEDS⁽¹⁾⁽²⁾

These seals incorporate a double-lip seal, a garter spring for maximum contact, and a heavy-duty steel shield that protects the seal from large pieces of debris that could damage the seal itself.

- **B Seal** – Made of nitrile rubber, this seal offers superior protection in applications with oil lubrication and is designed for extreme moisture, fine dust or extremely dirty applications. When using this seal, the housing comes with a vent fitting.
- **C Seal** – Made of Viton, this seal provides excellent chemical and abrasion resistance and can operate at higher temperatures than nitrile rubber. When using this seal, the housing comes with a vent fitting.

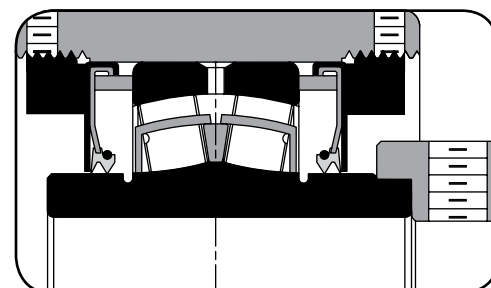


Fig. 15. Double-lip seals.

⁽¹⁾Temperature limit -40° C to 121° C (-40° F to 250° F) continuous, 149° C (300° F) intermittent. Constant seal-lip pressure on the inner ring results in higher operating temperatures of the complete unit. (See pages 56 – 58).

⁽²⁾Relief valve is standard.

SECONDARY SEALS

In many circumstances, bearings become damaged in housed units due to premature primary seal wear. This is usually the result of harsh operating environments or lubrication issues. Timken offers secondary sealing options that provide an additional barrier to protect the primary seal. These economical secondary seals and covers are easily outfitted on virtually all solid-block housed units.

STEEL COVERS

Labyrinth Seals – Non-Contacting, Non-Purging, All Speeds

A labyrinth seal uses a winding passageway to accomplish a reduction in flow instead of trying to form a seal with a single strong barrier. Seal friction and wear is reduced.

- T Seal** – This seal, which is used in the open-end steel covers, consists of a DuPont Teflon ring pressed onto the shaft that floats between two pieces of formed steel to accommodate misalignment. Developed for higher-speed applications involving dirty conditions or moisture-affected areas, it is able to operate at higher temperatures and is impervious to most chemicals, while avoiding shaft damage.

URETHANE COVERS

DR Triple-Lip Secondary Seal – Low Speeds

The DR seal is the standard triple-lip seal adapted for use on the open-end covers and piloted flange cartridge backing plates (HSY). This seal can move within the cover or backing plate opening to accommodate misalignment while maintaining full contact to the shaft for positive sealing.

VR Viton Ring Secondary Seal – High Speeds

The VR seal, made of nitrile rubber, rides on the shaft and seals against the open-end covers and flange block backing plates (UFP).

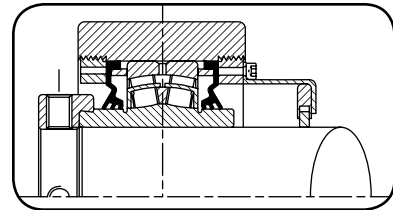


Fig. 16. Open-end steel cover with T seal.

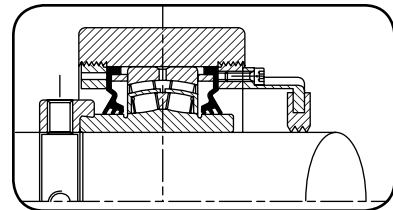


Fig. 17. Open-end urethane cover with DR seal.

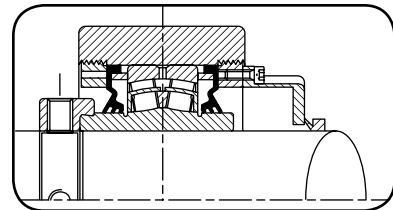


Fig. 18. Open-end urethane cover with VR seal.

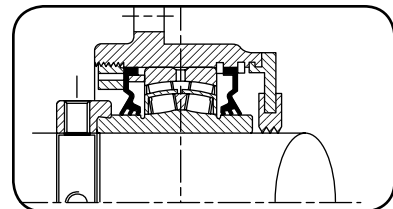


Fig. 19. HSY backing plate with DR seal.

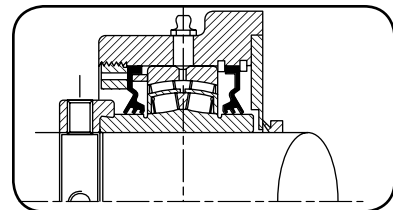


Fig. 20. UFP backing plate with VR seal.

STEEL AUXILIARY COVERS

Steel auxiliary covers bolt directly onto spherical roller bearing solid-block housed units. A DuPont Teflon labyrinth seal on the open-ended covers guards against shaft damage and gives protection at high running speeds. Made from steel to withstand the toughest applications, the covers are black-oxide treated for improved corrosion protection.

These covers are available in both open-ended and closed-ended designs for standard and custom configurations of Timken spherical roller bearing solid-block housed units.

Closed-End Covers (CS)

These bolt-on covers are designed to be virtually indestructible and extremely convenient. They are made from structural steel or urethane and are easy to install. The cover completely seals the bearing, preventing contamination from reaching the primary seal. Every cover is outfitted with a grease fitting to fill the cover cavity for an added barrier against contamination.



Fig. 21. Closed-end covers.

Open-End Covers (CJ/CK/CV)

These bolt-on covers are made from structural steel or urethane for repeated and continuous use. The covers are used with either a DuPont Teflon (T seal), triple-lip seal (DR) or a V-ring seal (VR) to help prevent contamination from reaching the primary seal. Every cover is outfitted with a grease fitting to fill the cover cavity for an added barrier against contamination.



Fig. 22. Open-end covers.

PILOTED FLANGE CARTRIDGE BACKING PLATES (HSY)

The HSY backing plate is designed to work in conjunction with the piloted flange cartridge housed units. Made of structural urethane, these plates are fitted to the back side of the pilot for extra protection. The HSY plate comes supplied with a triple-lip seal (DR) or a contamination collar (optional) to form an additional barrier against contamination for the most demanding applications.



Fig. 23. Piloted flange cartridge backing plates.

FLANGE BLOCK BACKING PLATES (UFP)

These backing plates are made from structural urethane and are uniquely designed to work with our flange block housed units. Made to fit flush against the back of the housing, these plates create a labyrinth over the inner ring for additional contamination protection. The UFP plate, when used with an optional V-ring seal (VR), provides an extra barrier against extreme contamination.



Fig. 24. Flange block backing plates.

HIGH-PERFORMANCE STEEL BACKING PLATE (BP)

These backing plates are made from mild steel and are uniquely designed to fit with our square flange block housed units. These plates use dual Teflon seals to make 360° contact on the shaft to eliminate contamination into the flange side of the housing. The plate is placed on the shaft prior to mounting the flange block and mounts flush with the back of the housing secured by the mounting bolts.



Fig. 25. High-performance steel backing plates.

STEEL COVER DIMENSIONS

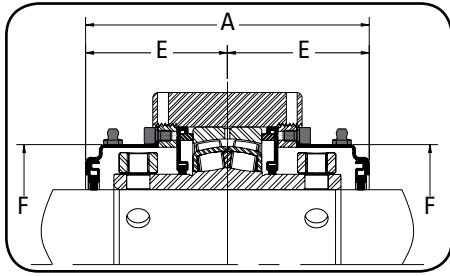


Fig. 26. Double open-end cover.⁽¹⁾

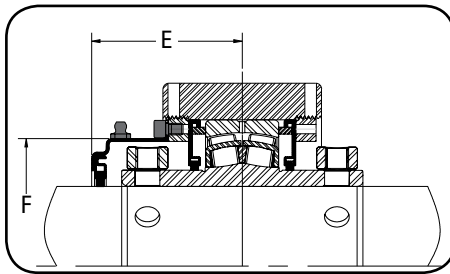


Fig. 27. Single open-end cover.

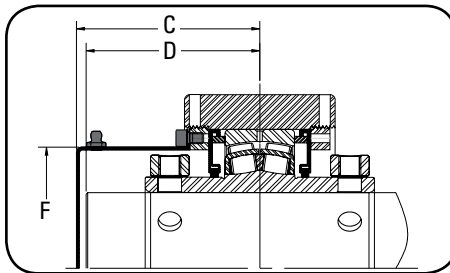


Fig. 28. Single closed-end cover.

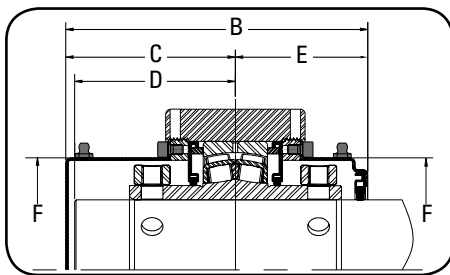


Fig. 29. Single closed-end cover and single open-end cover.⁽¹⁾

TABLE 2. V-LOCK SERIES – STRAIGHT BORE EQUIVALENTS

| Cover Part No. | Shaft Dia. | Bearing No. | Steel Cover Dimensions | | | | | |
|----------------|-------------|-------------|------------------------|--------------|--------------|--------------|--------------|--------------|
| | | | A | B | C | D | E | F |
| | mm in. | | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. |
| CS11STEEL | CLOSED | 22211 | | | | | | |
| CV11T115S | 1 15/16 in. | | 128.5 | 143.3 | 79.2 | 75.2 | 64.3 | 89.7 |
| CV11T050S | 50 mm | | 5.06 | 5.64 | 3.12 | 2.96 | 2.53 | 3.53 |
| CV11T200S | 2 in. | | | | | | | |
| CS12STEEL | CLOSED | 22212 | | | | | | |
| CV12T055S | 55 mm | | 129.0 | 141.5 | 77.0 | 72.9 | 64.5 | 98.6 |
| CV12T203S | 2 3/16 in. | | 5.08 | 5.57 | 3.03 | 2.87 | 2.54 | 3.88 |
| CV12T204S | 2 1/4 in. | | | | | | | |
| CS14STEEL | CLOSED | 22214 | | | | | | |
| CV14T060S | 60 mm | | 135.4 | 159.3 | 91.4 | 87.4 | 67.8 | 103.6 |
| CV14T207S | 2 7/16 in. | | 5.33 | 6.27 | 3.60 | 3.44 | 2.67 | 4.08 |
| CV14T208S | 2 1/2 in. | | | | | | | |
| CV14T065S | 65 mm | | | | | | | |
| CS16STEEL | CLOSED | 22216 | | | | | | |
| CV16T211S | 2 11/16 in. | | 150.1 | 167.6 | 92.5 | 88.4 | 75.2 | 116.1 |
| CV16T212S | 2 3/4 in. | | 5.91 | 6.60 | 3.64 | 3.48 | 2.96 | 4.57 |
| CV16T070S | 70 mm | | | | | | | |
| CV16T215S | 2 15/16 in. | | | | | | | |
| CV16T075S | 75 mm | | | | | | | |
| CV16T300S | 3 in. | | | | | | | |
| CS19STEEL | CLOSED | 22219 | | | | | | |
| CV19T080S | 80 mm | | 167.9 | 191.0 | 106.9 | 102.9 | 84.1 | 139.4 |
| CV19T303S | 3 3/16 in. | | 6.61 | 7.52 | 4.21 | 4.05 | 3.31 | 5.49 |
| CV19T304S | 3 1/4 in. | | | | | | | |
| CV19T085S | 85 mm | | | | | | | |
| CV19T307S | 3 7/16 in. | | | | | | | |
| CV19T308S | 3 1/2 in. | | | | | | | |
| CV19T090S | 90 mm | | | | | | | |
| CS22STEEL | CLOSED | 22222 | | | | | | |
| CV22T311S | 3 11/16 in. | | 217.7 | 241.8 | 133.1 | 129.0 | 109.0 | 180.1 |
| CV22T312S | 3 3/4 in. | | 8.57 | 9.52 | 5.24 | 5.08 | 4.29 | 7.09 |
| CV22T100S | 100 mm | | | | | | | |
| CV22T315S | 3 15/16 in. | | | | | | | |
| CV22T400S | 4 in. | | | | | | | |
| CS26STEEL | CLOSED | 22226 | | | | | | |
| CV26T110S | 110 mm | | 219.7 | 242.8 | 133.1 | 129.0 | 110.0 | 209.3 |
| CV26T407S | 4 7/16 in. | | 8.65 | 9.56 | 5.24 | 5.08 | 4.33 | 8.24 |
| CV26T408S | 4 1/2 in. | | | | | | | |
| CV26T115S | 115 mm | | | | | | | |
| CS28STEEL | CLOSED | 22228 | | | | | | |
| CV28T125S | 125 mm | | 223.5 | 246.9 | 135.1 | 131.1 | 111.8 | 209.3 |
| CV28T415S | 4 15/16 in. | | 8.80 | 9.72 | 5.32 | 5.16 | 4.40 | 8.24 |
| CV28T500S | 5 in. | | | | | | | |
| CV28T130S | 130 mm | | | | | | | |

⁽¹⁾Double covers available only on pillow block and take-up style bearings.

TABLE 3. V-LOCK SERIES—TAPERED BORE EQUIVALENTS

| Cover Part No. | Shaft Dia. | Bearing No. | Steel Cover Dimensions | | | | | |
|----------------|---------------|-------------|------------------------|--------------|--------------|--------------|--------------|--------------|
| | | | A | B | C | D | E | F |
| | mm in. | | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. |
| CS11STEEL | CLOSED | 22211 | | | | | | |
| CV11T115S | 1 1/16 in. | | 124.2 | 139.2 | 77.0 | 72.9 | 62.2 | 89.7 |
| CV11T050S | 50 mm | | 4.89 | 5.48 | 3.03 | 2.87 | 2.45 | 3.53 |
| CV11T200S | 2 in. | 22213 | | | | | | |
| CS13STEEL | CLOSED | | | | | | | |
| CV13T055S | 55 mm | | 130.3 | 154.2 | 88.9 | 84.8 | 65.3 | 103.6 |
| CV13T203S | 2 3/16 in. | | 5.13 | 6.07 | 3.50 | 3.34 | 2.57 | 4.08 |
| CV13T204S | 2 1/4 in. | 22215 | | | | | | |
| CS15STEEL | CLOSED | | | | | | | |
| CV15T060S | 60 mm | | 142.7 | 160.3 | 88.9 | 84.8 | 71.4 | 116.1 |
| CV15T207S | 2 7/16 in. | | 5.62 | 6.31 | 3.50 | 3.34 | 2.81 | 4.57 |
| CV15T208S | 2 1/2 in. | 22217 | | | | | | |
| CV15T065S | 65 mm | | | | | | | |
| CS17STEEL | CLOSED | | | | | | | |
| CV17T211S | 2 11/16 in. | 22217 | | | | | | |
| CV17T212S | 2 3/4 in. | | 133.9 | 156.0 | 88.9 | 84.8 | 67.1 | 132.1 |
| CV17T070S | 70 mm | | 5.27 | 6.14 | 3.50 | 3.34 | 2.64 | 5.2 |
| CV17T215S | 2 15/16 in. | 22220 | | | | | | |
| CV17T075S | 75 mm | | | | | | | |
| CS20STEEL | CLOSED | | | | | | | |
| CV20T080S | 80 mm | 22220 | | | | | | |
| CV20T303S | 3 3/16 in. | | 170.4 | 193.0 | 108.0 | 103.9 | 85.3 | 160.3 |
| CV20T304S | 3 1/4 in. | | 6.71 | 7.60 | 4.25 | 4.09 | 3.36 | 6.31 |
| CV20T085S | 85 mm | 22222 | | | | | | |
| CV20T307S | 3 7/16 in. | | | | | | | |
| CV20T308S | 3 1/2 in. | | | | | | | |
| CV20T090S | 90 mm | 22222 | | | | | | |
| CS22STEEL | CLOSED | | | | | | | |
| CV22T311S | 3 11/16 in. | | 208.5 | 232.9 | 128.5 | 124.5 | 104.4 | 180.1 |
| CV22T312S | 3 3/4 in. | | 8.21 | 9.17 | 5.06 | 4.90 | 4.11 | 7.09 |
| CV22T100S | 100 mm | 22224 | | | | | | |
| CV22T315S | 3 15/16 in. | | 213.6 | 237.7 | 131.1 | 127.0 | 106.7 | 180.1 |
| CV22T400S | 4 in. | | 8.41 | 9.36 | 5.16 | 5.00 | 4.20 | 7.09 |
| CS24STEEL | CLOSED | 22226 | | | | | | |
| CV24T110S | 110 mm | | 210.6 | 233.9 | 128.5 | 124.5 | 105.4 | 209.3 |
| CS26STEEL | CLOSED | | 8.29 | 9.21 | 5.06 | 4.90 | 4.15 | 8.24 |
| CV26T110S | 110 mm | 22228 | | | | | | |
| CV26T407S | 4 7/16 in. | | 214.6 | 238.0 | 130.6 | 126.5 | 107.2 | 209.3 |
| CV26T408S | 4 1/2 in. | | 8.45 | 9.37 | 5.14 | 4.98 | 4.22 | 8.24 |
| CV26T115S | 115 mm | 22228 | | | | | | |
| CS28STEEL | CLOSED | | | | | | | |
| CV28T125S | 125 mm | | | | | | | |
| CV28T415S | 4 15/16 in. | 22226 | | | | | | |
| CV28T500S | 5 in. | | 219.7 | 242.8 | 133.1 | 129.0 | 110.0 | 209.3 |
| CV28T130S | 130 mm | | 8.65 | 9.56 | 5.24 | 5.08 | 4.33 | 8.24 |

TABLE 4. CL SERIES—SINGLE AND DOUBLE SET SCREW LOCKS

| Cover Part No. | Shaft Dia. | Bearing No. | Steel Cover Dimensions | | | | | |
|----------------|---------------|-------------|------------------------|--------------|--------------|--------------|--------------|--------------|
| | | | A | B | C | D | E | F |
| | mm in. | | mm in. | mm in. | mm in. | mm in. | mm in. | |
| CS08STEEL | CLOSED | 22208 | | | | | | |
| CA08T035S | 35 mm | | 115.6 | 127.8 | 69.9 | 65.8 | 57.9 | 69.6 |
| CA08T107S | 1 7/16 in. | | 4.55 | 5.03 | 2.75 | 2.59 | 2.28 | 2.74 |
| CA08T108S | 1 1/2 in. | 22209 | | | | | | |
| CS09STEEL | CLOSED | | | | | | | |
| CA09T040S | 40 mm | | 121.7 | 130.8 | 69.9 | 65.8 | 61.0 | 74.7 |
| CA09T111S | 1 11/16 in. | | 4.79 | 5.15 | 2.75 | 2.59 | 2.40 | 2.94 |
| CA09T112S | 1 3/4 in. | 22210 | | | | | | |
| CA09T045S | 45 mm | | | | | | | |
| CS10STEEL | CLOSED | | | | | | | |
| CA10T115S | 1 15/16 in. | 22210 | | | | | | |
| CA10T050S | 50 mm | | 122.7 | 132.8 | 73.2 | 69.1 | 61.5 | 79.8 |
| CA10T200S | 2 in. | | 4.83 | 5.23 | 2.88 | 2.72 | 2.42 | 3.14 |
| CS11STEEL | CLOSED | 22211 | | | | | | |
| CA11T055S | 55 mm | | 128.5 | 143.3 | 79.2 | 75.2 | 64.3 | 89.7 |
| CA11T203S | 2 3/16 in. | | 5.06 | 5.64 | 3.12 | 2.96 | 2.53 | 3.53 |
| CA11T204S | 2 1/4 in. | 22213 | | | | | | |
| CS13STEEL | CLOSED | | | | | | | |
| CA13T060S | 60 mm | | 135.4 | 159.3 | 91.4 | 87.4 | 67.8 | 103.6 |
| CA13T207S | 2 7/16 in. | | 5.33 | 6.27 | 3.60 | 3.44 | 2.67 | 4.08 |
| CA13T208S | 2 1/2 in. | 22215 | | | | | | |
| CA13T065S | 65 mm | | | | | | | |
| CS15STEEL | CLOSED | | | | | | | |
| CA15T211S | 2 11/16 in. | 22215 | | | | | | |
| CA15T212S | 2 3/4 in. | | 148.1 | 165.6 | 91.4 | 87.4 | 74.2 | 116.1 |
| CA15T070S | 70 mm | | 5.83 | 6.52 | 3.60 | 3.44 | 2.92 | 4.57 |
| CA15T215S | 2 15/16 in. | 22218 | | | | | | |
| CA15T075S | 75 mm | | | | | | | |
| CA15T300S | 3 in. | | | | | | | |
| CS18STEEL | CLOSED | 22218 | | | | | | |
| CA18T080S | 80 mm | | 164.8 | 188.0 | 105.7 | 101.6 | 82.6 | 139.4 |
| CA18T303S | 3 3/16 in. | | 6.49 | 7.40 | 4.16 | 4.00 | 3.25 | 5.49 |
| CA18T304S | 3 1/4 in. | 22220 | | | | | | |
| CA18T085S | 85 mm | | | | | | | |
| CA18T307S | 3 7/16 in. | | | | | | | |
| CA18T308S | 3 1/2 in. | 22220 | | | | | | |
| CA18T090S | 90 mm | | | | | | | |
| CS20STEEL | CLOSED | | | | | | | |
| CA20T311S | 3 11/16 in. | 22220 | | | | | | |
| CA20T312S | 3 3/4 in. | | 179.6 | 202.2 | 112.5 | 108.5 | 89.9 | 160.3 |
| CA20T100S | 100 mm | | 7.07 | 7.96 | 4.43 | 4.27 | 3.54 | 6.31 |
| CA20T315S | 3 15/16 in. | 22222 | | | | | | |
| CA20T400S | 4 in. | | | | | | | |
| CS22STEEL | CLOSED | | | | | | | |
| CA22T110S | 110 mm | 22222 | | | | | | |
| CA22T407S | 4 7/16 in. | | 217.7 | 241.8 | 133.1 | 129.0 | 109.0 | 180.1 |
| CA22T408S | 4 1/2 in. | | 8.57 | 9.52 | 5.24 | 5.08 | 4.29 | 7.09 |
| CA22T115S | 115 mm | 22226 | | | | | | |
| CS26STEEL | CLOSED | | | | | | | |
| CA26T125S | 125 mm | | 219.7 | 242.8 | 133.1 | 129.0 | 110.0 | 209.3 |
| CA26T415S | 4 15/16 in. | | 8.65 | 9.56 | 5.24 | 5.08 | 4.33 | 8.24 |
| CA26T500S | 5 in. | 22226 | | | | | | |
| CA26T130S | 130 mm | | | | | | | |

STEEL COVER DIMENSIONS – continued

TABLE 5. EC SERIES – ECCENTRIC LOCK

| Cover Part No. | Shaft Dia. | Bearing No. | Steel Cover Dimensions | | | | | |
|----------------|-------------|-------------|------------------------|---------------|---------------|---------------|--------------|---------------|
| | | | A | B | C | D | E | F |
| | mm in. | | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. |
| CS08STEEL | CLOSED | 22208 | 115.6 4.55 | 127.8 5.03 | 69.9 2.75 | 65.8 2.59 | 57.9 2.28 | 69.6 2.74 |
| CJ08T035S | 35 mm | | | | | | | |
| CJ08T107S | 1 7/16 in. | | | | | | | |
| CJ08T108S | 1 1/2 in. | | | | | | | |
| CS09STEEL | Closed | 22209 | 121.7 4.79 | 130.8 5.15 | 69.9 2.75 | 65.8 2.59 | 61.0 2.40 | 74.7 2.94 |
| CJ09T040S | 40 mm | | | | | | | |
| CJ09T111S | 1 11/16 in. | | | | | | | |
| CJ09T112S | 1 3/4 in. | | | | | | | |
| CJ09T045S | 45 mm | 22210 | 122.7 4.83 | 132.8 5.23 | 73.2 2.88 | 69.1 2.72 | 61.5 2.42 | 79.8 3.14 |
| CS10STEEL | CLOSED | | | | | | | |
| CJ10T115S | 1 5/8 in. | | | | | | | |
| CJ10T050S | 50 mm | | | | | | | |
| CJ10T200S | 2 in. | 22211 | 128.5 5.06 | 143.3 5.64 | 79.2 3.12 | 75.2 2.96 | 64.3 2.53 | 89.7 3.53 |
| CS11STEEL | CLOSED | | | | | | | |
| CJ11T055S | 55 mm | | | | | | | |
| CJ11T203S | 2 3/8 in. | | | | | | | |
| CJ11T204S | 2 1/4 in. | 22213 | 135.4 5.33 | 159.3 6.27 | 91.4 3.60 | 87.4 3.44 | 67.8 2.67 | 103.6 4.08 |
| CS13STEEL | CLOSED | | | | | | | |
| CJ13T060S | 60 mm | | | | | | | |
| CJ13T207S | 2 7/8 in. | | | | | | | |
| CJ13T208S | 2 1/2 in. | 22215 | 148.1 5.83 | 165.6 6.52 | 91.4 3.60 | 87.4 3.44 | 74.2 2.92 | 116.1 4.57 |
| CJ13T065S | 65 mm | | | | | | | |
| CS15STEEL | CLOSED | | | | | | | |
| CJ15T211S | 2 11/16 in. | | | | | | | |
| CJ15T212S | 2 3/4 in. | 22218 | 164.8 6.49 | 188.0 7.40 | 105.7 4.16 | 101.6 4.00 | 82.6 3.25 | 139.4 5.49 |
| CJ15T070S | 70 mm | | | | | | | |
| CJ15T215S | 2 15/16 in. | | | | | | | |
| CJ15T075S | 75 mm | | | | | | | |
| CJ15T300S | 3 in. | 22218 | 164.8 6.49 | 188.0 7.40 | 105.7 4.16 | 101.6 4.00 | 82.6 3.25 | 139.4 5.49 |
| CS18STEEL | CLOSED | | | | | | | |
| CJ18T080S | 80 mm | | | | | | | |
| CJ18T303S | 3 3/8 in. | | | | | | | |
| CJ18T304S | 3 1/4 in. | 22218 | 164.8 6.49 | 188.0 7.40 | 105.7 4.16 | 101.6 4.00 | 82.6 3.25 | 139.4 5.49 |
| CJ18T085S | 85 mm | | | | | | | |
| CJ18T307S | 3 7/8 in. | | | | | | | |
| CJ18T308S | 3 1/2 in. | | | | | | | |
| CJ18T090S | 90 mm | | | | | | | |

| Cover Part No. | Shaft Dia. | Bearing No. | Steel Cover Dimensions | | | | | |
|----------------|-------------|-------------|------------------------|----------------|---------------|---------------|---------------|----------------|
| | | | A | B | C | D | E | F |
| | mm in. | | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. |
| CS20STEEL | CLOSED | 22220 | 179.6 7.07 | 202.2 7.96 | 112.5 4.43 | 108.5 4.27 | 89.9 3.54 | 160.3 6.31 |
| CJ20T311S | 3 11/16 in. | | | | | | | |
| CJ20T312S | 3 3/4 in. | | | | | | | |
| CJ20T100S | 100 mm | | | | | | | |
| CJ20T315S | 3 15/16 in. | 22222 | 217.7 8.57 | 241.8 9.52 | 133.1 5.24 | 129.0 5.08 | 109.0 4.29 | 180.1 7.09 |
| CJ20T400S | 4 in. | | | | | | | |
| CS22STEEL | CLOSED | | | | | | | |
| CJ22T110S | 110 mm | | | | | | | |
| CJ22T407S | 4 7/8 in. | 22226 | 219.7 8.65 | 242.8 9.56 | 133.1 5.24 | 129.0 5.08 | 110.0 4.33 | 209.3 8.24 |
| CJ22T408S | 4 1/2 in. | | | | | | | |
| CJ22T115S | 115 mm | | | | | | | |
| CS26STEEL | CLOSED | | | | | | | |
| CJ26T125S | 125 mm | 23230 | 270.3 10.64 | 283.2 11.15 | 148.1 5.83 | 144.0 5.67 | 135.1 5.32 | 239.5 9.43 |
| CJ26T415S | 4 15/16 in. | | | | | | | |
| CJ26T500S | 5 in. | | | | | | | |
| CJ26T130S | 130 mm | | | | | | | |
| CS30STEEL | CLOSED | 23234 | 300.5 11.83 | 305.3 12.02 | 155.2 6.11 | 151.1 5.95 | 150.1 5.91 | 279.4 11.00 |
| CJ30T507S | 5 7/8 in. | | | | | | | |
| CJ30T508S | 5 1/2 in. | | | | | | | |
| CJ30T140S | 140 mm | | | | | | | |
| CJ30T515S | 5 15/16 in. | 23234 | 300.5 11.83 | 305.3 12.02 | 155.2 6.11 | 151.1 5.95 | 150.1 5.91 | 279.4 11.00 |
| CJ30T600S | 6 in. | | | | | | | |
| CJ30T150S | 150 mm | | | | | | | |
| CS34STEEL | CLOSED | | | | | | | |
| CJ34T607S | 6 7/8 in. | 23234 | 300.5 11.83 | 305.3 12.02 | 155.2 6.11 | 151.1 5.95 | 150.1 5.91 | 279.4 11.00 |
| CJ34T608S | 6 1/2 in. | | | | | | | |
| CJ34T170S | 170 mm | | | | | | | |
| CJ34T615S | 6 15/16 in. | | | | | | | |
| CJ34T700S | 7 in. | 23234 | 300.5 11.83 | 305.3 12.02 | 155.2 6.11 | 151.1 5.95 | 150.1 5.91 | 279.4 11.00 |
| CJ34T180S | 180 mm | | | | | | | |

TABLE 6. TA/DV SERIES – TAPERED ADAPTER LOCK

| Cover Part No. | Shaft Dia. | Bearing No. | Steel Cover Dimensions | | | | | | | | | | | | |
|----------------|-------------|-------------|------------------------|---------------|---------------|---------------|--------------|---------------|-------|---------------|---------------|--------------|--------------|--------------|---------------|
| | | | A | B | C | D | E | F | | | | | | | |
| | mm in. | | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. | | | | | | | |
| CS09STEEL | CLOSED | 22209 | 118.4 4.66 | 127.5 5.02 | 68.3 2.69 | 64.3 2.53 | 59.2 2.33 | 74.7 2.94 | | | | | | | |
| CK09T107S | 1 7/16 in. | | | | | | | | | | | | | | |
| CK09T108S | 1 1/2 in. | | | | | | | | | | | | | | |
| CK09T040S | 40 mm | | | | | | | | | | | | | | |
| CS10STEEL | CLOSED | 22210 | 118.4 4.66 | 130.0 5.12 | 70.9 2.79 | 66.8 2.63 | 59.2 2.33 | 79.8 3.14 | | | | | | | |
| CK10T111S | 1 11/16 in. | | | | | | | | | | | | | | |
| CK10T112S | 1 3/4 in. | | | | | | | | | | | | | | |
| CK10T045S | 45 mm | | | | | | | | | | | | | | |
| CS11STEEL | CLOSED | 22211 | 124.2 4.89 | 139.2 5.48 | 77.0 3.03 | 72.9 2.87 | 62.2 2.45 | 89.7 3.53 | | | | | | | |
| CK11T115S | 1 15/16 in. | | | | | | | | | | | | | | |
| CK11T050S | 50 mm | | | | | | | | | | | | | | |
| CK11T200S | 2 in. | | | | | | | | | | | | | | |
| CS12STEEL | CLOSED | 22212 | 123.7 4.87 | 136.4 5.37 | 74.4 2.93 | 70.4 2.77 | 62.0 2.44 | 98.6 3.88 | | | | | | | |
| CK12T055S | 55 mm | | | | | | | | | | | | | | |
| CS13STEEL | CLOSED | | | | | | | | 22213 | 130.3 5.13 | 154.2 6.07 | 88.9 3.50 | 84.8 3.34 | 65.3 2.57 | 103.6 4.08 |
| CK13T203S | 2 3/16 in. | | | | | | | | | | | | | | |
| CK13T204S | 2 1/4 in. | | | | | | | | | | | | | | |
| CK13T060S | 60 mm | | | | | | | | | | | | | | |
| CS15STEEL | CLOSED | 22215 | 142.7 5.62 | 160.3 6.31 | 88.9 3.50 | 84.8 3.34 | 71.4 2.81 | 116.1 4.57 | | | | | | | |
| CK15T207S | 2 7/16 in. | | | | | | | | | | | | | | |
| CK15T208S | 2 1/2 in. | | | | | | | | | | | | | | |
| CK15T065S | 65 mm | | | | | | | | | | | | | | |
| CS16STEEL | CLOSED | 22216 | 144.8 5.70 | 162.3 6.39 | 89.9 3.54 | 85.9 3.38 | 72.4 2.85 | 116.1 4.57 | | | | | | | |
| CK16T211S | 2 11/16 in. | | | | | | | | | | | | | | |
| CK16T212S | 2 3/4 in. | | | | | | | | | | | | | | |
| CK16T070S | 70 mm | | | | | | | | | | | | | | |
| CS17STEEL | CLOSED | 22217 | 133.9 5.27 | 156.0 6.14 | 88.9 3.50 | 84.8 3.34 | 67.1 2.64 | 132.1 5.20 | | | | | | | |
| CK17T215S | 2 15/16 in. | | | | | | | | | | | | | | |
| CK17T075S | 75 mm | | | | | | | | | | | | | | |
| CK17T300S | 3 in. | | | | | | | | | | | | | | |
| CS18STEEL | CLOSED | 22218 | 159.5 6.28 | 182.9 7.20 | 102.9 4.05 | 98.8 3.89 | 79.8 3.14 | 139.4 5.49 | | | | | | | |
| CK18T080S | 80 mm | | | | | | | | | | | | | | |
| CK18T303S | 3 3/16 in. | | | | | | | | | | | | | | |
| CK18T304S | 3 1/4 in. | | | | | | | | | | | | | | |
| CS19STEEL | CLOSED | 22219 | 162.6 6.40 | 185.7 7.31 | 104.4 4.11 | 100.3 3.95 | 81.3 3.20 | 139.4 5.49 | | | | | | | |
| CK19T085S | 85 mm | | | | | | | | | | | | | | |

| Cover Part No. | Shaft Dia. | Bearing No. | Steel Cover Dimensions | | | | | |
|----------------|-------------|-------------|------------------------|---------------|---------------|---------------|---------------|---------------|
| | | | A | B | C | D | E | F |
| | mm in. | | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. |
| CS20STEEL | CLOSED | 22220 | 170.4 6.71 | 193.0 7.60 | 108.0 4.25 | 103.9 4.09 | 85.3 3.36 | 160.3 6.31 |
| CK20T307S | 3 7/16 in. | | | | | | | |
| CK20T308S | 3 1/2 in. | | | | | | | |
| CK20T090S | 90 mm | | | | | | | |
| CS22STEEL | CLOSED | 22222 | 208.5 8.21 | 232.9 9.17 | 128.5 5.06 | 124.5 4.90 | 104.4 4.11 | 180.1 7.09 |
| CK22T315S | 3 15/16 in. | | | | | | | |
| CK22T400S | 4 in. | | | | | | | |
| CK22T100S | 100 mm | | | | | | | |
| CS24STEEL | CLOSED | 22224 | 213.6 8.41 | 237.7 9.36 | 131.1 5.16 | 127.0 5.00 | 106.7 4.20 | 180.1 7.09 |
| CK24T403S | 4 3/16 in. | | | | | | | |
| CK24T404S | 4 1/4 in. | | | | | | | |
| CK24T110S | 110 mm | | | | | | | |
| CS26STEEL | CLOSED | 22226 | 210.6 8.29 | 233.9 9.21 | 128.5 5.06 | 124.5 4.90 | 105.4 4.15 | 209.3 8.24 |
| CK26T407S | 4 7/16 in. | | | | | | | |
| CK26T408S | 4 1/2 in. | | | | | | | |
| CK26T115S | 115 mm | | | | | | | |
| CS28STEEL | CLOSED | 22228 | 214.6 8.45 | 238.0 9.37 | 130.6 5.14 | 126.5 4.98 | 107.2 4.22 | 209.3 8.24 |
| CK28T415S | 4 15/16 in. | | | | | | | |
| CK28T500S | 5 in. | | | | | | | |
| CK28T125S | 125 mm | | | | | | | |

STEEL COVER DIMENSIONS – continued

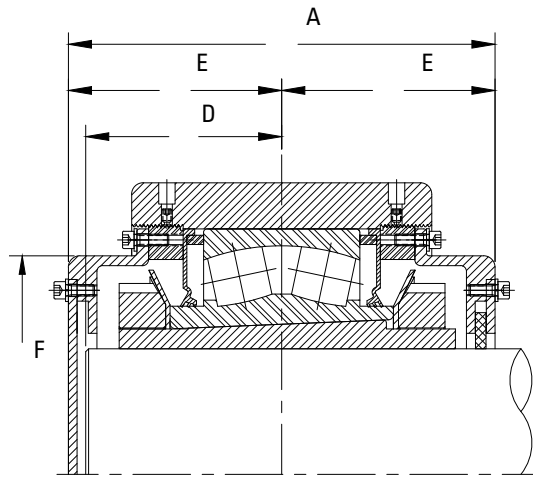


TABLE 7. TAA/DAA SERIES – TAPERED ADAPTER LOCK

| Cover Part No. | Shaft Dia. | Bearing No. | Steel Cover Dimensions | | | |
|----------------|-------------|-------------|------------------------|---------------|---------------|----------------|
| | | | A | D | E | F |
| | mm in. | | mm in. | mm in. | mm in. | mm in. |
| CS32STEEL | CLOSED | 23132 | 235.1 9.26 | 108.2 4.26 | 117.6 4.63 | 240.5 9.47 |
| CK32T135S | 135 mm | | | | | |
| CK32T506S | 5 3/8 in. | | | | | |
| CK32T507S | 5 7/16 in. | | | | | |
| CK32T508S | 5 1/2 in. | | | | | |
| CK32T140S | 140 mm | 23134 | 236.6 9.32 | 108.7 4.28 | 118.3 4.66 | 243.4 9.58 |
| CS34LSTEEL | CLOSED | | | | | |
| CK34T513S | 5 13/16 in. | | | | | |
| CK34T514S | 5 7/8 in. | | | | | |
| CK34T150S | 150 mm | | | | | |
| CK34T515S | 5 15/16 in. | 23136 | 237.1 9.34 | 107.0 4.21 | 118.6 4.67 | 255.9 10.08 |
| CK34T600S | 6 in. | | | | | |
| CS36STEEL | CLOSED | | | | | |
| CK36T160S | 160 mm | | | | | |
| CK36T605S | 6 5/16 in. | | | | | |
| CK36T606S | 6 3/8 in. | 23138 | 255.4 10.06 | 118.1 4.65 | 127.7 5.03 | 272.3 10.72 |
| CK36T607S | 6 7/16 in. | | | | | |
| CK36T608S | 6 1/2 in. | | | | | |
| CS38STEEL | CLOSED | | | | | |
| CK38T170S | 170 mm | | | | | |
| CK38T613S | 6 13/16 in. | 23140 | 258.8 10.19 | 119.4 4.70 | 129.4 5.09 | 287.4 11.31 |
| CK38T614S | 6 7/8 in. | | | | | |
| CK38T615S | 6 15/16 in. | | | | | |
| CK38T700S | 7 in. | | | | | |
| CS40STEEL | CLOSED | | | | | |
| CK40T180S | 180 mm | 23144 | 297.7 11.72 | 136.1 5.36 | 148.9 5.86 | 314.0 12.36 |
| CK40T702S | 7 1/8 in. | | | | | |
| CK40T703S | 7 3/16 in. | | | | | |
| CK40T704S | 7 1/4 in. | | | | | |
| CS44STEEL | CLOSED | | | | | |
| CK44T713S | 7 13/16 in. | 23148 | 300.0 11.81 | 136.7 5.38 | 150.0 5.91 | 346.4 13.64 |
| CK44T200S | 200 mm | | | | | |
| CK44T714S | 7 7/8 in. | | | | | |
| CK44T715S | 7 15/16 in. | | | | | |
| CK44T800S | 8 in. | | | | | |
| CS48STEEL | CLOSED | 23152 | 330.0 12.99 | 151.0 5.95 | 165.0 6.50 | 381.0 15.00 |
| CK48T807S | 8 7/16 in. | | | | | |
| CK48T808S | 8 1/2 in. | | | | | |
| CK48T220S | 220 mm | | | | | |
| CK48T815S | 8 15/16 in. | | | | | |
| CK48T900S | 9 in. | 23152 | 330.0 12.99 | 151.0 5.95 | 165.0 6.50 | 381.0 15.00 |
| CS52STEEL | CLOSED | | | | | |
| CK52T907S | 9 7/16 in. | | | | | |
| CK52T240S | 240 mm | 23152 | 330.0 12.99 | 151.0 5.95 | 165.0 6.50 | 381.0 15.00 |
| CK52T908S | 9 1/2 in. | | | | | |

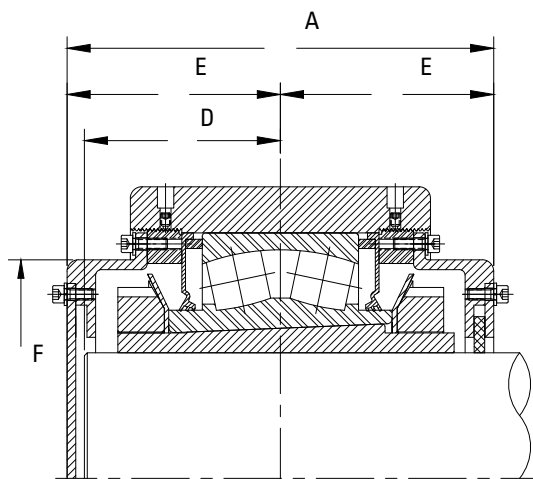


TABLE 7. TAA/DAA SERIES – TAPERED ADAPTER LOCK (CONTINUED)

| Cover Part No. | Shaft Dia. | Bearing No. | Steel Cover Dimensions | | | | Cover Part No. | Shaft Dia. | Bearing No. | Steel Cover Dimensions | | | |
|----------------|---------------|-------------|------------------------|----------------------|----------------------|-----------------------|----------------|---------------|-------------|------------------------|----------------------|----------------------|-----------------------|
| | | | A | D | E | F | | | | A | D | E | F |
| | mm in. | | mm in. | mm in. | mm in. | mm in. | | | mm in. | mm in. | mm in. | mm in. | |
| CS56STEEL | CLOSED | 23156 | 365.2 14.38 | 167.0 6.58 | 182.6 7.19 | 388.4 15.29 | CS68STEEL | CLOSED | 23168 | 412.6 16.24 | 185.2 7.29 | 206.3 8.12 | 482.1 18.98 |
| CK56T915S | 9 1/16 in. | | | | | | CK68T1207S | 12 7/16 in. | | | | | |
| CK56T1000S | 10 in. | | | | | | CK68T1208S | 12 1/2 in. | | | | | |
| CK56T260S | 260 mm | | | | | | CK68T320S | 320 mm | | | | | |
| CK56T1007S | 10 7/16 in. | | | | | | CS72STEEL | CLOSED | | | | | |
| CK56T1008S | 10 1/2 in. | 23172 | 377.5 14.86 | 170.6 6.71 | 188.8 7.43 | 432.8 17.04 | CK72T1215S | 12 15/16 in. | 23176 | 435.2 17.13 | 196.8 7.75 | 217.6 8.57 | 521.6 20.54 |
| CS60STEEL | CLOSED | | | | | | CK72T1300S | 13 in. | | | | | |
| CK60T1015S | 10 15/16 in. | | | | | | CK72T340S | 340 mm | | | | | |
| CK60T1100S | 11 in. | | | | | | CK72T1307S | 13 7/16 in. | | | | | |
| CK60T280S | 280 mm | | | | | | CK72T1308S | 13 1/2 in. | | | | | |
| CS64STEEL | CLOSED | 23164 | 390.5 15.37 | 176.7 6.96 | 195.2 7.69 | 450.8 17.75 | CS76STEEL | CLOSED | 23176 | 458.9 18.07 | 204.2 8.04 | 229.5 9.03 | 554.3 21.82 |
| CK64T1107S | 11 7/16 in. | | | | | | CK76T1315S | 13 15/16 in. | | | | | |
| CK64T1108S | 11 1/2 in. | | | | | | CK76T1400S | 14 in. | | | | | |
| CK64T300S | 300 mm | | | | | | CK76T360S | 360 mm | | | | | |
| CK64T1115S | 11 15/16 in. | | | | | | CS80STEEL | CLOSED | | | | | |
| CK64T1200S | 12 in. | 23180 | 377.5 14.86 | 170.6 6.71 | 188.8 7.43 | 432.8 17.04 | CK80T1415S | 14 15/16 in. | 23180 | 482.1 18.98 | 215.6 8.49 | 241.1 9.49 | 582.6 22.94 |
| | | | | | | | CK80T380S | 380 mm | | | | | |
| | | | | | | | CK80T1500S | 15 in. | | | | | |

URETHANE

CLOSED-END COVER DIMENSIONS

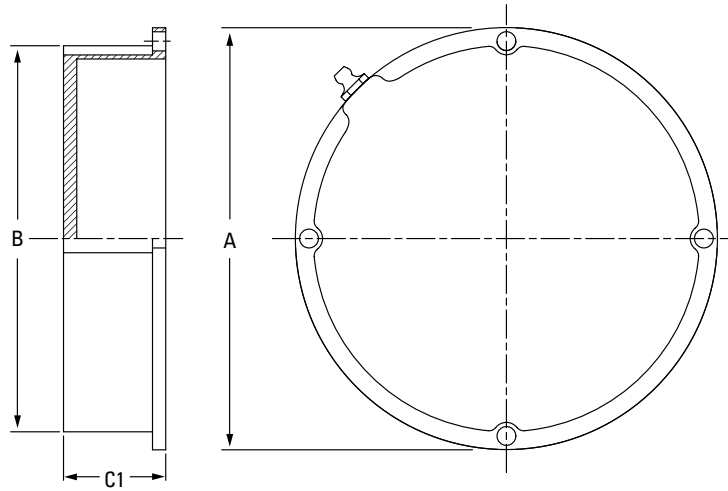


TABLE 8. CLOSED-END COVER DIMENSIONS

| Cover Part No. ⁽¹⁾ | A | B | C1 ⁽²⁾ |
|-------------------------------|----------------|----------------|-------------------|
| | mm in. | mm in. | mm in. |
| CS08 | 81.5 3.21 | 76.7 3.02 | 31.6 1.25 |
| CS09 | 86.6 3.41 | 81.6 3.21 | 31.6 1.25 |
| CS10 | 91.9 3.62 | 86.6 3.41 | 31.6 1.25 |
| CS11 | 101.9 4.01 | 96.6 3.81 | 31.6 1.25 |
| CS12V | 110.5 4.35 | 105.6 4.16 | 31.6 1.25 |
| CS13/CS14V | 119.4 4.70 | 110.5 4.35 | 27.3 1.08 |
| CS15/CS16V | 130.0 5.12 | 122.9 4.84 | 33.0 1.30 |
| CS17 | 149.9 5.90 | 139.0 5.47 | 31.1 1.22 |
| CS18/CS19V | 160.3 6.31 | 146.5 5.77 | 38.8 1.53 |
| CS20 | 179.8 7.08 | 167.2 6.58 | 44.5 1.75 |
| CS22 | 200.4 7.89 | 187.2 7.37 | 52.7 2.07 |
| CS24 | 200.4 7.89 | 187.2 7.37 | 52.7 2.07 |
| CS26/CS28V | 230.1 9.06 | 216.2 8.51 | 56.9 2.24 |
| CS30 | 270.5 10.65 | 254.0 10.00 | 56.9 2.24 |
| CS34 | 309.9 12.20 | 295.2 11.62 | 73.3 2.89 |

⁽¹⁾Cover part number, CSXX, is determined by the bearing insert series of unit on which cover will be installed. See nomenclature guide on page 13 to determine bearing insert series.

⁽²⁾Extended covers available upon request.

OPEN-END COVERS WITH DR SEALS

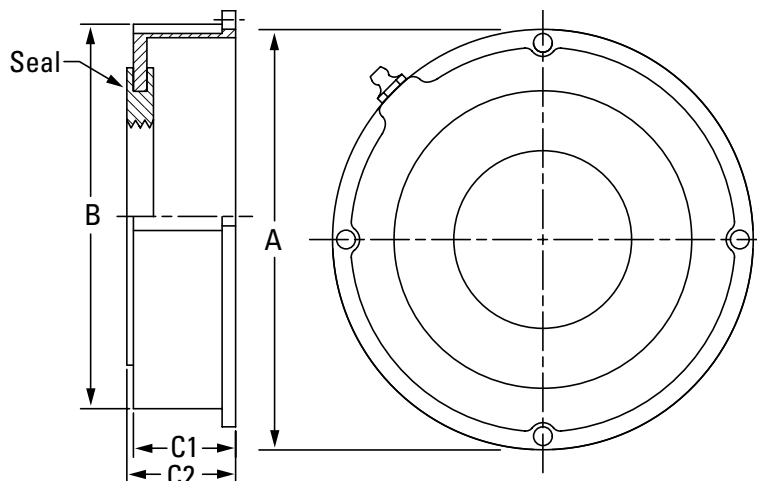


TABLE 9. V-LOCK SERIES – STRAIGHT BORE EQUIVALENT – OPEN-END COVER WITH DR SEAL – (QV[V]...P, PL, SN, PF, PR, C, CW, F, FL, FY, FX, TU)

| Cover Part No. | Shaft Dia. | A | B | C1 | C2 |
|----------------|-------------|-----------|-----------|-----------|-----------|
| | mm in. | mm in. | mm in. | mm in. | mm in. |
| CVDR11-115 | 1 1/16 in. | 101.9 | 96.6 | 31.6 | 34.2 |
| CVDR11-200 | 2 in. | 4.01 | 3.81 | 1.25 | 1.35 |
| CVDR11-050MM | 50 mm | | | | |
| CVDR12-203 | 2 3/16 in. | 110.5 | 105.6 | 31.6 | 34.2 |
| CVDR12-204 | 2 1/4 in. | 4.35 | 4.16 | 1.25 | 1.35 |
| CVDR12-055MM | 55 mm | | | | |
| CVDR14-060MM | 60 mm | | | | |
| CVDR14-207 | 2 7/16 in. | 119.4 | 110.5 | 27.3 | 29.8 |
| CVDR14-208 | 2 1/2 in. | 4.70 | 4.35 | 1.08 | 1.18 |
| CVDR14-065MM | 65 mm | | | | |
| CVDR16-211 | 2 1/16 in. | | | | |
| CVDR16-212 | 2 3/4 in. | | | | |
| CVDR16-070MM | 70 mm | 130.0 | 122.9 | 33.0 | 35.5 |
| CVDR16-215 | 2 15/16 in. | 5.12 | 4.84 | 1.30 | 1.40 |
| CVDR16-300 | 3 in. | | | | |
| CVDR16-075MM | 75 mm | | | | |
| CVDR19-303 | 3 3/8 in. | | | | |
| CVDR19-304 | 3 1/4 in. | | | | |
| CVDR19-080MM | 80 mm | 160.3 | 146.5 | 38.8 | 41.4 |
| CVDR19-085MM | 85 mm | 6.31 | 5.77 | 1.53 | 1.63 |
| CVDR19-307 | 3 7/16 in. | | | | |
| CVDR19-308 | 3 1/2 in. | | | | |
| CVDR19-090MM | 90 mm | | | | |
| CVDR22-311 | 3 1/16 in. | | | | |
| CVDR22-312 | 3 3/4 in. | | | | |
| CVDR22-100MM | 100 mm | 200.4 | 187.2 | 52.7 | 55.2 |
| CVDR22-315 | 3 15/16 in. | 7.89 | 7.37 | 2.07 | 2.17 |
| CVDR22-400 | 4 in. | | | | |
| CVDR26-110MM | 110 mm | | | | |
| CVDR26-407 | 4 7/16 in. | 230.1 | 216.2 | 56.9 | 59.4 |
| CVDR26-408 | 4 1/2 in. | 9.06 | 8.51 | 2.24 | 2.34 |
| CVDR26-115MM | 115 mm | | | | |
| CVDR28-125MM | 125 mm | | | | |
| CVDR28-415 | 4 15/16 in. | 230.1 | 216.2 | 56.9 | 59.4 |
| CVDR28-500 | 5 in. | 9.06 | 8.51 | 2.24 | 2.34 |
| CVDR28-130MM | 130 mm | | | | |

TABLE 10. V-LOCK SERIES – TAPERED ADAPTER EQUIVALENT – OPEN-END COVER WITH DR SEAL – (QV[V]...PA, PN, PKT, PK, PH, PG, FC, FB, MC)

| Cover Part No. | Shaft Dia. | A | B | C1 | C2 |
|----------------|-------------|-----------|-----------|-----------|-----------|
| | mm in. | mm in. | mm in. | mm in. | mm in. |
| CVDR11-115 | 1 1/16 in. | 101.9 | 96.6 | 31.6 | 34.2 |
| CVDR11-200 | 2 in. | 4.01 | 3.81 | 1.25 | 1.35 |
| CVDR11-050MM | 50 mm | | | | |
| CVDR13-203 | 2 3/16 in. | 119.4 | 110.5 | 27.3 | 29.8 |
| CVDR13-204 | 2 1/4 in. | 4.70 | 4.35 | 1.08 | 1.18 |
| CVDR13-055MM | 55 mm | | | | |
| CVDR15-060MM | 60 mm | | | | |
| CVDR15-207 | 2 7/16 in. | 130.0 | 122.9 | 33.0 | 35.5 |
| CVDR15-208 | 2 1/2 in. | 5.12 | 4.84 | 1.30 | 1.40 |
| CVDR15-065MM | 65 mm | | | | |
| CVDR17-211 | 2 1/16 in. | | | | |
| CVDR17-212 | 2 3/4 in. | | | | |
| CVDR17-070MM | 70 mm | 149.9 | 139.0 | 31.1 | 33.6 |
| CVDR17-215 | 2 15/16 in. | 5.90 | 5.47 | 1.22 | 1.32 |
| CVDR17-300 | 3 in. | | | | |
| CVDR16-075MM | 75 mm | | | | |
| CVDR20-303 | 3 3/8 in. | | | | |
| CVDR20-304 | 3 1/4 in. | | | | |
| CVDR20-080MM | 80 mm | 179.8 | 167.2 | 44.5 | 47.0 |
| CVDR20-085MM | 85 mm | 7.08 | 6.58 | 1.75 | 1.85 |
| CVDR20-307 | 3 7/16 in. | | | | |
| CVDR19-308 | 3 1/2 in. | | | | |
| CVDR19-090MM | 90 mm | | | | |
| CVDR22-311 | 3 1/16 in. | | | | |
| CVDR22-312 | 3 3/4 in. | | | | |
| CVDR22-100MM | 100 mm | 200.4 | 187.2 | 52.7 | 55.2 |
| CVDR22-315 | 3 15/16 in. | 7.89 | 7.37 | 2.07 | 2.17 |
| CVDR22-400 | 4 in. | | | | |
| CVDR26-110MM | 110 mm | | | | |
| CVDR26-407 | 4 7/16 in. | 230.1 | 216.2 | 56.9 | 59.4 |
| CVDR26-408 | 4 1/2 in. | 9.06 | 8.51 | 2.24 | 2.34 |
| CVDR26-115MM | 115 mm | | | | |
| CVDR28-125MM | 125 mm | | | | |
| CVDR28-415 | 4 15/16 in. | 230.1 | 216.2 | 56.9 | 59.4 |
| CVDR28-500 | 5 in. | 9.06 | 8.51 | 2.24 | 2.34 |
| CVDR28-130MM | 130 mm | | | | |

TABLE 11. CL AND EC SERIES—OPEN-END COVER WITH DR SEAL

| Cover Part No. | Shaft Dia. | A | B | C1 | C2 |
|----------------|---------------|-----------------------|-----------------------|---------------------|---------------------|
| | mm in. | mm in. | mm in. | mm in. | mm in. |
| CJDR035MM | 35 mm | 97.0 3.82 | 76.7 3.02 | 31.8 1.25 | 34.3 1.35 |
| CJDR107 | 1 7/16 in. | | | | |
| CJDR108 | 1 1/2 in. | | | | |
| CJDR040MM | 40 mm | 101.9 4.01 | 81.6 3.21 | 31.8 1.25 | 34.3 1.35 |
| CJDR111 | 1 11/16 in. | | | | |
| CJDR112 | 1 3/4 in. | | | | |
| CJDR045MM | 45 mm | 106.9 4.21 | 86.6 3.41 | 31.8 1.25 | 34.3 1.35 |
| CJDR115 | 1 15/16 in. | | | | |
| CJDR200 | 2 in. | | | | |
| CJDR050MM | 50 mm | 117.1 4.61 | 96.8 3.81 | 31.8 1.25 | 34.3 1.35 |
| CJDR203 | 2 3/16 in. | | | | |
| CJDR204 | 2 1/4 in. | | | | |
| CJDR055MM | 55 mm | 132.1 5.20 | 110.49 4.35 | 27.4 1.08 | 30.0 1.18 |
| CJDR060MM | 60 mm | | | | |
| CJDR207 | 2 7/16 in. | | | | |
| CJDR208 | 2 1/2 in. | | | | |
| CJDR065MM | 65 mm | 142 5.59 | 122.9 4.84 | 33.0 1.30 | 35.6 1.40 |
| CJDR211 | 2 11/16 in. | | | | |
| CJDR070MM | 70 mm | | | | |
| CJDR212 | 2 3/4 in. | | | | |
| CJDR215 | 2 15/16 in. | | | | |
| CJDR300 | 3 in. | | | | |
| CJDR075MM | 75 mm | 168.1 6.62 | 149.1 5.87 | 38.9 1.53 | 41.4 1.63 |
| CJDR303 | 3 3/16 in. | | | | |
| CJDR304 | 3 1/4 in. | | | | |
| CJDR080MM | 80 mm | 192 7.56 | 174.8 6.88 | 44.5 1.75 | 47.0 1.85 |
| CJDR085MM | 85 mm | | | | |
| CJDR307 | 3 7/16 in. | | | | |
| CJDR308 | 3 1/2 in. | | | | |
| CJDR090MM | 90 mm | 212.1 8.35 | 194.8 7.67 | 52.6 2.07 | 55.1 2.17 |
| CJDR315 | 3 15/16 in. | | | | |
| CJDR400 | 4 in. | | | | |
| CJDR100MM | 100 mm | 241.3 9.50 | 223.8 8.81 | 56.9 2.24 | 59.4 2.34 |
| CJDR110MM | 110 mm | | | | |
| CJDR407 | 4 7/16 in. | | | | |
| CJDR408 | 4 1/2 in. | | | | |
| CJDR115MM | 115 mm | 271.6 10.69 | 254.0 10.00 | 56.9 2.24 | 59.4 2.34 |
| CJDR125MM | 125 mm | | | | |
| CJDR415 | 4 15/16 in. | | | | |
| CJDR500 | 5 in. | | | | |
| CJDR130MM | 130 mm | 304.8 12.00 | 287.3 11.31 | 56.9 2.24 | 59.4 2.34 |
| CJDR507 | 5 7/16 in. | | | | |
| CJDR508 | 5 1/2 in. | | | | |
| CJDR140MM | 140 mm | 304.8 12.00 | 287.3 11.31 | 56.9 2.24 | 59.4 2.34 |
| CJDR515 | 5 15/16 in. | | | | |
| CJDR600 | 6 in. | | | | |
| CJDR150MM | 150 mm | 304.8 12.00 | 287.3 11.31 | 56.9 2.24 | 59.4 2.34 |
| CJDR607 | 6 7/16 in. | | | | |
| CJDR608 | 6 1/2 in. | | | | |
| CJDR170MM | 170 mm | 304.8 12.00 | 287.3 11.31 | 56.9 2.24 | 59.4 2.34 |
| CJDR615 | 6 15/16 in. | | | | |
| CJDR700 | 7 in. | | | | |
| CJDR180MM | 180 mm | 304.8 12.00 | 287.3 11.31 | 56.9 2.24 | 59.4 2.34 |
| CJDR707 | 7 7/16 in. | | | | |
| CJDR708 | 7 1/2 in. | | | | |

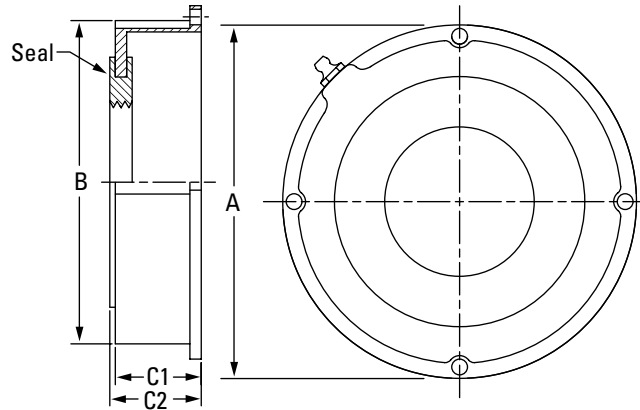


TABLE 12. TA/DV SERIES—OPEN-END COVER WITH DR SEAL

| Cover Part No. | Shaft Dia. | A | B | C1 | C2 |
|----------------|---------------|----------------------|----------------------|---------------------|---------------------|
| | mm in. | mm in. | mm in. | mm in. | mm in. |
| CKDR107 | 1 7/16 in. | 101.9 4.01 | 81.5 3.21 | 31.8 1.25 | 34.3 1.35 |
| CKDR108 | 1 1/2 in. | | | | |
| CKDR040MM | 40 mm | | | | |
| CKDR111 | 1 11/16 in. | 106.9 4.21 | 86.6 3.41 | 31.8 1.25 | 34.3 1.35 |
| CKDR112 | 1 3/4 in. | | | | |
| CKDR045MM | 45 mm | | | | |
| CKDR115 | 1 15/16 in. | 117.1 4.61 | 96.8 3.81 | 31.8 1.25 | 34.3 1.35 |
| CKDR200 | 2 in. | | | | |
| CKDR050MM | 50 mm | | | | |
| CKDR055MM | 55 mm | 126.0 4.96 | 105.7 4.16 | 31.8 1.25 | 34.3 1.35 |
| CKDR203 | 2 3/16 in. | | | | |
| CKDR204 | 2 1/4 in. | | | | |
| CKDR060MM | 60 mm | 132.1 5.20 | 116.1 4.57 | 27.4 1.08 | 30.0 1.18 |
| CKDR207 | 2 7/16 in. | | | | |
| CKDR208 | 2 1/2 in. | | | | |
| CKDR065MM | 65 mm | 142.0 5.59 | 122.9 4.84 | 33.0 1.30 | 35.6 1.40 |
| CKDR211 | 2 11/16 in. | | | | |
| CKDR212 | 2 3/4 in. | | | | |
| CKDR070MM | 70 mm | 142.0 5.59 | 122.9 4.84 | 33.0 1.30 | 35.6 1.40 |
| CKDR215 | 2 15/16 in. | | | | |
| CKDR300 | 3 in. | | | | |
| CKDR075MM | 75 mm | 160.5 6.32 | 141.5 5.57 | 31.0 1.22 | 33.5 1.32 |
| CKDR080MM | 80 mm | | | | |
| CKDR303 | 3 3/16 in. | | | | |
| CKDR304 | 3 1/4 in. | | | | |
| CKDR085MM | 85 mm | 168.1 6.62 | 149.1 5.87 | 38.9 1.53 | 41.4 1.63 |
| CKDR307 | 3 7/16 in. | | | | |
| CKDR308 | 3 1/2 in. | | | | |
| CKDR090MM | 90 mm | 192.0 7.56 | 174.8 6.88 | 44.5 1.75 | 47.0 1.85 |
| CKDR315 | 3 15/16 in. | | | | |
| CKDR400 | 4 in. | | | | |
| CKDR100MM | 100 mm | 212.1 8.35 | 194.8 7.67 | 52.6 2.07 | 55.1 2.17 |
| CKDR403 | 4 3/16 in. | | | | |
| CKDR404 | 4 1/4 in. | | | | |
| CKDR110MM | 110 mm | 212.1 8.35 | 194.8 7.67 | 52.6 2.07 | 55.1 2.17 |
| CKDR407 | 4 7/16 in. | | | | |
| CKDR408 | 4 1/2 in. | | | | |
| CKDR115MM | 115 mm | 241.3 9.50 | 223.8 8.81 | 56.9 2.24 | 59.4 2.34 |
| CKDR415 | 4 15/16 in. | | | | |
| CKDR500 | 5 in. | | | | |
| CKDR125MM | 125 mm | 241.3 9.50 | 223.8 8.81 | 56.9 2.24 | 59.4 2.34 |
| CKDR507 | 5 7/16 in. | | | | |
| CKDR508 | 5 1/2 in. | | | | |

OPEN-END COVERS WITH VR SEALS

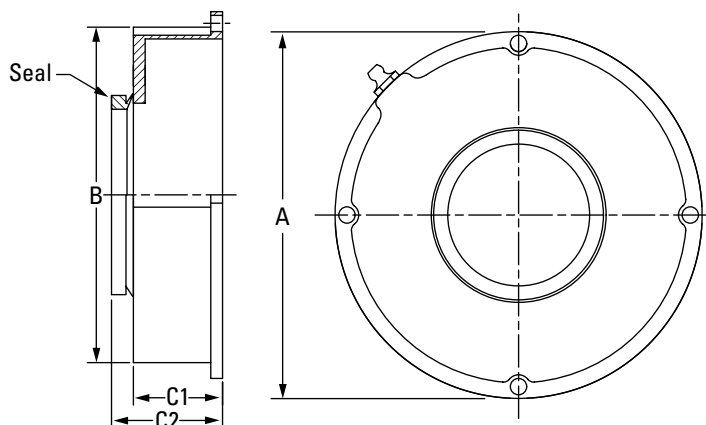


TABLE 13. V-LOCK SERIES – STRAIGHT BORE EQUIVALENT – OPEN-END COVER WITH VR SEAL – (QV[V])...P, PL, SN, PF, PR, PX, PXT, C, CW, F, FL, FY, FX, TU)

| Cover Part No. ⁽¹⁾ | Shaft Dia. | A | B | C1 | C2 |
|-------------------------------|-------------|--------|--------|--------|--------|
| | mm in. | mm in. | mm in. | mm in. | mm in. |
| CVVR11 | 1 15/16 in. | 117.1 | 96.8 | 31.8 | 40.6 |
| | 2 in. | | | | |
| | 50 mm | | | | |
| CVVR12 | 2 3/16 in. | 126.0 | 105.7 | 31.8 | 40.6 |
| | 2 1/4 in. | | | | |
| | 55 mm | | | | |
| CVVR14 | 2 7/16 in. | 132.1 | 116.1 | 27.4 | 36.3 |
| | 2 1/2 in. | | | | |
| | 65 mm | | | | |
| CVVR16 | 2 11/16 in. | 142.0 | 122.9 | 33.0 | 44.0 |
| | 2 3/4 in. | | | | |
| | 2 15/16 in. | | | | |
| | 3 in. | | | | |
| CVVR19 | 3 in. | 168.1 | 149.1 | 38.9 | 50.0 |
| | 3 1/16 in. | | | | |
| | 3 1/4 in. | | | | |
| | 3 7/16 in. | | | | |
| CVVR22 | 3 1/2 in. | 212.1 | 194.8 | 52.6 | 63.5 |
| | 3 5/8 in. | | | | |
| | 3 7/8 in. | | | | |
| | 4 in. | | | | |
| CVVR26 | 4 in. | 241.3 | 223.8 | 56.9 | 69.6 |
| | 4 1/16 in. | | | | |
| | 4 1/2 in. | | | | |
| CVVR28 | 4 1/2 in. | 241.3 | 223.8 | 56.9 | 69.6 |
| | 4 7/8 in. | | | | |
| | 5 in. | | | | |

⁽¹⁾Please refer to bore size when choosing cover for straight-bore V-Lock.

TABLE 14. V-LOCK SERIES – TAPERED ADAPTER EQUIVALENT – OPEN-END COVER WITH VR SEAL – (QV[V])...PA, PN, PKT, PK, PH, PG, FC, FB, MC)

| Cover Part No. | Shaft Dia. | A | B | C1 | C2 |
|----------------|-------------|--------|--------|--------|--------|
| | mm in. | mm in. | mm in. | mm in. | mm in. |
| CKVR11 | 1 15/16 in. | 117.1 | 96.8 | 31.8 | 40.6 |
| | 2 in. | | | | |
| | 50 mm | | | | |
| CKVR13 | 2 3/16 in. | 132.1 | 116.1 | 27.4 | 36.3 |
| | 2 1/4 in. | | | | |
| | 55 mm | | | | |
| CKVR15 | 2 7/16 in. | 142.0 | 122.9 | 33.0 | 41.9 |
| | 2 1/2 in. | | | | |
| | 65 mm | | | | |
| CKVR17 | 2 11/16 in. | 160.6 | 141.5 | 31.0 | 41.9 |
| | 2 3/4 in. | | | | |
| | 2 15/16 in. | | | | |
| | 3 in. | | | | |
| CKVR20 | 3 in. | 192.0 | 174.8 | 44.4 | 55.4 |
| | 3 1/16 in. | | | | |
| | 3 1/4 in. | | | | |
| | 3 7/16 in. | | | | |
| CKVR22 | 3 1/2 in. | 212.1 | 194.8 | 52.6 | 63.5 |
| | 3 5/8 in. | | | | |
| | 3 7/8 in. | | | | |
| | 4 in. | | | | |
| CKVR24 | 4 in. | 212.1 | 194.8 | 52.6 | 63.5 |
| | 4 1/16 in. | | | | |
| | 4 1/2 in. | | | | |
| CKVR26 | 4 1/2 in. | 241.3 | 223.8 | 56.9 | 69.6 |
| | 4 7/8 in. | | | | |
| | 5 in. | | | | |
| CKVR28 | 5 in. | 241.3 | 223.8 | 56.9 | 69.6 |
| | 5 1/4 in. | | | | |
| | 5 1/2 in. | | | | |

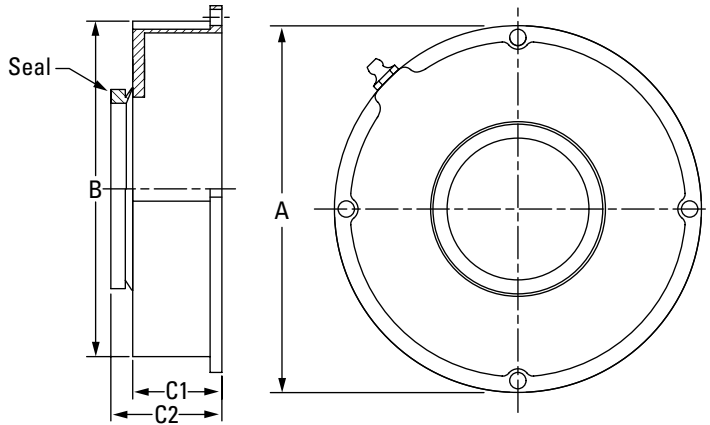


TABLE 15. CL AND EC SERIES—OPEN-END COVER WITH VR SEAL

| Cover Part No. | Shaft Dia. | A | B | C1 | C2 |
|----------------|-------------|-----------|-----------|-----------|-----------|
| | mm in. | mm in. | mm in. | mm in. | mm in. |
| CJVR08 | 35 mm | 97.0 | 76.7 | 31.8 | 39.4 |
| | 1 7/16 in. | 3.82 | 3.02 | 1.25 | 1.55 |
| | 1 1/2 in. | | | | |
| CJVR09 | 40 mm | 101.9 | 81.5 | 31.8 | 40.6 |
| | 1 11/16 in. | 4.01 | 3.21 | 1.25 | 1.60 |
| | 1 3/4 in. | | | | |
| CJVR10 | 45 mm | 106.9 | 86.6 | 31.8 | 40.6 |
| | 1 15/16 in. | 4.21 | 3.41 | 1.25 | 1.60 |
| | 2 in. | | | | |
| CJVR11 | 50 mm | 117.1 | 96.8 | 31.8 | 40.6 |
| | 2 3/16 in. | 4.61 | 3.81 | 1.25 | 1.60 |
| | 2 1/4 in. | | | | |
| CJVR13 | 55 mm | 132.1 | 116.1 | 27.4 | 36.3 |
| | 2 1/8 in. | 5.20 | 4.57 | 1.08 | 1.43 |
| | 2 1/2 in. | | | | |
| CJVR15 | 60 mm | 142.0 | 122.9 | 33.0 | 44.0 |
| | 2 3/8 in. | 5.59 | 4.84 | 1.30 | 1.73 |
| | 2 15/16 in. | | | | |
| CJVR18 | 70 mm | 168.1 | 149.1 | 38.9 | 49.8 |
| | 2 3/4 in. | 6.62 | 5.87 | 1.53 | 1.96 |
| | 2 7/8 in. | | | | |
| CJVR20 | 75 mm | 192.0 | 174.8 | 44.5 | 55.4 |
| | 3 in. | 7.56 | 6.88 | 1.75 | 2.18 |
| | 3 1/8 in. | | | | |
| CJVR22 | 80 mm | 212.1 | 194.8 | 52.6 | 65.3 |
| | 3 1/4 in. | 8.35 | 7.67 | 2.07 | 2.57 |
| | 3 1/2 in. | | | | |
| CJVR26 | 85 mm | 241.3 | 223.8 | 56.9 | 69.6 |
| | 3 3/8 in. | 9.50 | 8.81 | 2.24 | 2.74 |
| | 3 1/2 in. | | | | |

TABLE 16. TA/DV SERIES—OPEN-END COVER WITH VR SEAL

| Cover Part No. | Shaft Dia. | A | B | C1 | C2 |
|----------------|-------------|-----------|-----------|-----------|-----------|
| | mm in. | mm in. | mm in. | mm in. | mm in. |
| CKVR09 | 40 mm | 101.9 | 81.5 | 31.8 | 39.4 |
| | 1 7/16 in. | 4.01 | 3.21 | 1.25 | 1.55 |
| | 1 1/2 in. | | | | |
| CKVR10 | 45 mm | 106.9 | 86.6 | 31.8 | 40.6 |
| | 1 11/16 in. | 4.21 | 3.41 | 1.25 | 1.6 |
| | 1 3/4 in. | | | | |
| CKVR11 | 50 mm | 117.1 | 96.8 | 31.8 | 40.6 |
| | 1 15/16 in. | 4.61 | 3.81 | 1.25 | 1.60 |
| | 2 in. | | | | |
| CKVR12 | 55 mm | 126.0 | 105.7 | 31.8 | 40.6 |
| | 2 1/8 in. | 4.96 | 4.16 | 1.25 | 1.6 |
| | 2 1/4 in. | | | | |
| CKVR13 | 60 mm | 132.1 | 116.1 | 27.4 | 36.3 |
| | 2 3/8 in. | 5.20 | 4.57 | 1.08 | 1.43 |
| | 2 1/2 in. | | | | |
| CKVR15 | 65 mm | 142.0 | 122.9 | 33.0 | 41.9 |
| | 2 5/8 in. | 5.59 | 4.84 | 1.30 | 1.65 |
| | 2 7/8 in. | | | | |
| CKVR16 | 70 mm | 142.0 | 122.9 | 33.0 | 41.9 |
| | 2 7/8 in. | 5.59 | 4.84 | 1.30 | 1.65 |
| | 3 in. | | | | |
| CKVR17 | 75 mm | 160.5 | 141.5 | 31.0 | 41.9 |
| | 3 1/8 in. | 6.32 | 5.57 | 1.22 | 1.65 |
| | 3 1/4 in. | | | | |
| CKVR18 | 80 mm | 168.1 | 149.1 | 38.9 | 49.8 |
| | 3 1/4 in. | 6.62 | 5.87 | 1.53 | 1.96 |
| | 3 1/2 in. | | | | |
| CKVR19 | 85 mm | 168.1 | 149.1 | 38.9 | 49.8 |
| | 3 3/8 in. | 6.62 | 5.87 | 1.53 | 1.96 |
| | 3 1/2 in. | | | | |
| CKVR20 | 90 mm | 192.0 | 174.8 | 44.5 | 55.4 |
| | 3 5/8 in. | 7.56 | 6.88 | 1.75 | 2.18 |
| | 3 7/8 in. | | | | |
| CKVR22 | 95 mm | 212.1 | 194.8 | 52.6 | 63.5 |
| | 3 3/4 in. | 8.35 | 7.67 | 2.07 | 2.50 |
| | 4 in. | | | | |
| CKVR24 | 100 mm | 212.1 | 194.8 | 52.6 | 63.5 |
| | 4 in. | 8.35 | 7.67 | 2.07 | 2.50 |
| | 4 1/4 in. | | | | |
| CKVR26 | 105 mm | 241.3 | 223.8 | 56.9 | 69.6 |
| | 4 1/8 in. | 9.50 | 8.81 | 2.24 | 2.74 |
| | 4 1/2 in. | | | | |
| CKVR28 | 110 mm | 241.3 | 223.8 | 56.9 | 69.6 |
| | 4 3/8 in. | 9.50 | 8.81 | 2.24 | 2.74 |
| | 4 1/2 in. | | | | |

UFP AND HSY FLANGE BLOCK BACKING PLATE DIMENSIONS

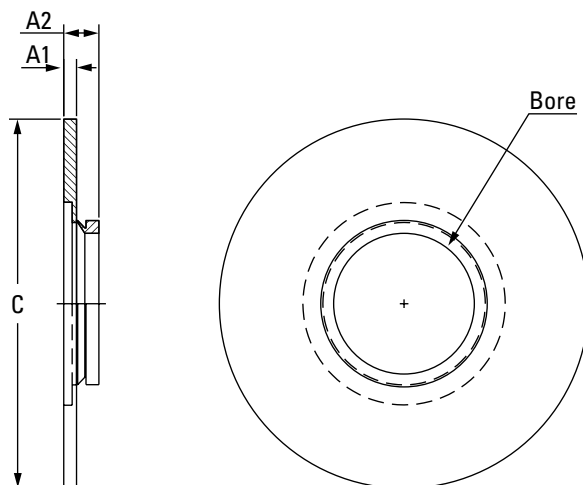


TABLE 17. UFP BACKING PLATE DIMENSIONS⁽¹⁾

| Cover Part No. | Shaft Dia. | A1 | A2 | C |
|----------------|---------------|-----------|-----------|-----------|
| | mm in. | mm in. | mm in. | mm in. |
| UFP035MM | 35 mm | | | |
| UFP107 | 1 7/16 in. | 5.1 | 12.7 | 95.3 |
| UFP108 | 1 1/2 in. | 0.20 | 0.50 | 3.75 |
| UFP111 | 1 11/16 in. | | | |
| UFP040MM | 40 mm | 5.1 | 14.0 | 105.9 |
| UFP112 | 1 3/4 in. | 0.20 | 0.55 | 4.17 |
| UFP045MM | 45 mm | | | |
| UFP115 | 1 15/16 in. | | | |
| UFP200 | 2 in. | 3.8 | 12.7 | 106.4 |
| UFP050MM | 50 mm | 0.15 | 0.50 | 4.19 |
| UFP203 | 2 3/16 in. | | | |
| UFP204 | 2 1/4 in. | 6.4 | 15.2 | 114.6 |
| UFP055MM | 55 mm | 0.25 | 0.60 | 4.51 |
| UFP060MM | 60 mm | | | |
| UFP207 | 2 7/16 in. | 5.1 | 14.0 | 146.1 |
| UFP208 | 2 1/2 in. | 0.20 | 0.55 | 5.75 |
| UFP065MM | 65 mm | | | |
| UFP211 | 2 11/16 in. | | | |
| UFP070MM | 70 mm | | | |
| UFP212 | 2 3/4 in. | 5.1 | 16.0 | 146.6 |
| UFP215 | 2 15/16 in. | 0.20 | 0.63 | 5.77 |
| UFP300 | 3 in. | | | |
| UFP075MM | 75 mm | | | |
| UFP303 | 3 3/16 in. | | | |
| UFP304 | 3 1/4 in. | | | |
| UFP080MM | 80 mm | 5.1 | 16.0 | 187.5 |
| UFP085MM | 85 mm | 0.20 | 0.63 | 7.38 |
| UFP307 | 3 7/16 in. | | | |
| UFP308 | 3 1/2 in. | | | |
| UFP090MM | 90 mm | | | |
| UFP315 | 3 15/16 in. | | | |
| UFP400 | 4 in. | 5.1 | 16.0 | 206.5 |
| UFP100MM | 100 mm | 0.20 | 0.63 | 8.13 |
| UFP110MM | 110 mm | | | |
| UFP407 | 4 7/16 in. | 5.1 | 17.8 | 215.9 |
| UFP408 | 4 1/2 in. | 0.20 | 0.70 | 8.50 |
| UFP115MM | 115 mm | | | |
| UFP125MM | 125 mm | | | |
| UFP415 | 4 15/16 in. | 5.1 | 17.8 | 299 |
| UFP500 | 5 in. | 0.20 | 0.70 | 11.77 |
| UFP130MM | 130 mm | | | |

⁽¹⁾Actual backing plate may differ from drawing.

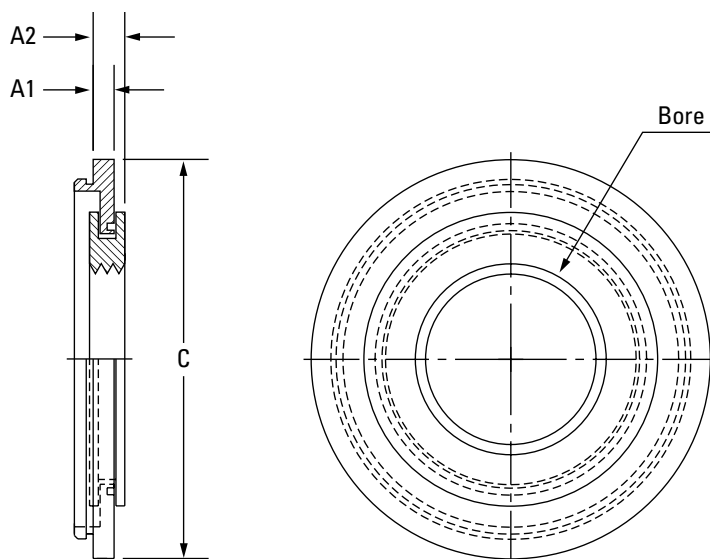


TABLE 18. HSY BACKING PLATE DIMENSIONS

| Cover Part No. | Shaft Dia. | A1 | A2 | C |
|----------------|---------------|-------------|--------------|----------------|
| | mm in. | mm in. | mm in. | mm in. |
| HSY035MM | 35 mm | 5.1 0.20 | 7.6 0.30 | 85.9 3.38 |
| HSY107 | 1 7/16 in. | | | |
| HSY108 | 1 1/2 in. | | | |
| HSY111 | 1 11/16 in. | 8.9 0.35 | 11.4 0.45 | 101.6 4.00 |
| HSY040MM | 40 mm | | | |
| HSY112 | 1 3/4 in. | | | |
| HSY045MM | 45 mm | 5.1 0.20 | 7.6 0.30 | 108.0 4.25 |
| HSY115 | 1 15/16 in. | | | |
| HSY200 | 2 in. | | | |
| HSY050MM | 50 mm | 5.1 0.20 | 7.6 0.30 | 120.1 4.73 |
| HSY203 | 2 3/16 in. | | | |
| HSY204 | 2 1/4 in. | | | |
| HSY055MM | 55 mm | 6.4 0.25 | 8.9 0.35 | 133.4 5.25 |
| HSY060MM | 60 mm | | | |
| HSY207 | 2 7/16 in. | | | |
| HSY208 | 2 1/2 in. | 6.4 0.25 | 8.9 0.35 | 155.7 6.13 |
| HSY065MM | 65 mm | | | |
| HSY211 | 2 11/16 in. | | | |
| HSY070MM | 70 mm | 5.1 0.20 | 7.6 0.30 | 181.1 7.13 |
| HSY212 | 2 3/4 in. | | | |
| UPF215 | 2 15/16 in. | | | |
| HSY300 | 3 in. | 5.1 0.20 | 7.6 0.30 | 199.9 7.87 |
| HSY075MM | 75 mm | | | |
| HSY303 | 3 3/16 in. | | | |
| HSY304 | 3 1/4 in. | 7.6 0.30 | 10.2 0.40 | 245.0 10.00 |
| HSY080MM | 80 mm | | | |
| HSY085MM | 85 mm | | | |
| HSY307 | 3 7/16 in. | 7.6 0.30 | 10.2 0.40 | 245.0 10.00 |
| HSY308 | 3 1/2 in. | | | |
| HSY090MM | 90 mm | | | |
| HSY315 | 3 15/16 in. | 7.6 0.30 | 10.2 0.40 | 245.0 10.00 |
| HSY400 | 4 in. | | | |
| HSY100MM | 100 mm | | | |
| HSY110MM | 110 mm | 7.6 0.30 | 10.2 0.40 | 245.0 10.00 |
| HSY407 | 4 7/16 in. | | | |
| HSY408 | 4 1/2 in. | | | |
| HSY115MM | 115 mm | | | |

SEAL AND COVER OPTIONS • UFP AND HSY FLANGE BLOCK BACKING PLATE DIMENSIONS

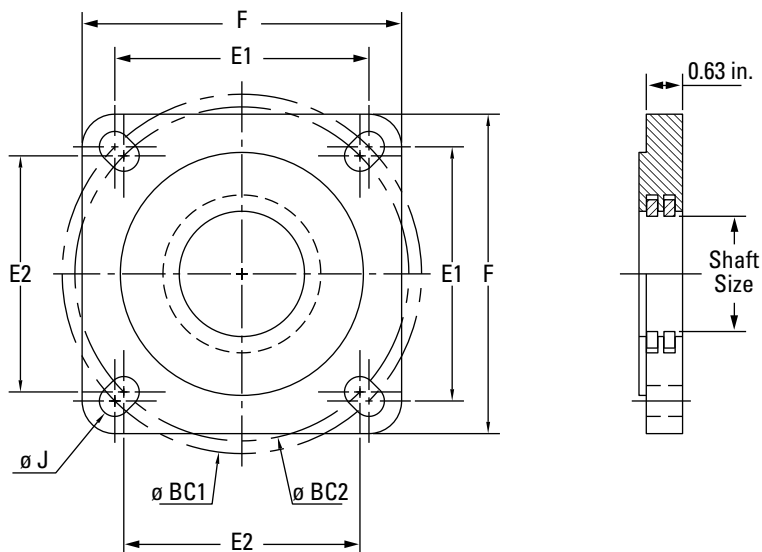


TABLE 19. STEEL BACKING PLATES AVAILABLE IN ECCENTRIC AND SET SCREW LOCKING HOUSING STYLES QMF/QAF AND QMFL/QAFL

| Part Number | Shaft Dia. | F | E1 | E2 | BC1 | BC2 | J | Bolt Size | Weight |
|-------------|-------------|----------------|---------------|---------------|----------------|----------------|---------------------------------|-----------|-------------|
| | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. | mm [+1.5/-0] in. [+0.063/-0] | mm in. | kg lb. |
| BP10T115S | 1 1/16 in. | 139.7 5.50 | 111.1 4.38 | 103.3 4.07 | 157.1 6.19 | 146.1 5.75 | 13.5 0.53 | 12 1/2 | 2.0 4.5 |
| BP10T200S | 2 in. | | | | | | | | |
| BP10T050S | 50 mm | | | | | | | | |
| BP11T203S | 2 3/16 in. | 157.2 6.19 | 123.8 4.88 | 114.5 4.51 | 175.1 6.89 | 161.9 6.38 | 16.7 0.66 | 16 5/8 | 2.8 6.1 |
| BP11T204S | 2 1/4 in. | | | | | | | | |
| BP11T055S | 55 mm | | | | | | | | |
| BP13T060S | 60 mm | 168.4 6.63 | 136.5 5.38 | 121.2 4.77 | 193.1 7.60 | 171.5 6.75 | 16.7 0.66 | 16 5/8 | 3.0 6.7 |
| BP13T207S | 2 7/16 in. | | | | | | | | |
| BP13T208S | 2 1/2 in. | | | | | | | | |
| BP13T065S | 65 mm | 189.0 7.44 | 152.4 6.00 | 141.4 5.57 | 215.5 8.49 | 200.0 7.88 | 21.0 0.83 | 20 3/4 | 3.9 8.6 |
| BP15T211S | 2 1/16 in. | | | | | | | | |
| BP15T212S | 2 3/4 in. | | | | | | | | |
| BP15T070S | 70 mm | 219.2 8.63 | 178.0 7.01 | 170.6 6.72 | 251.7 9.91 | 241.3 9.50 | 21.0 0.83 | 20 3/4 | 5.4 12.0 |
| BP15T215S | 2 15/16 in. | | | | | | | | |
| BP15T300S | 3 in. | | | | | | | | |
| BP15T075S | 75 mm | 253.2 9.97 | 196.9 7.75 | 193.1 7.60 | 278.4 10.96 | 273.1 10.75 | 27.0 1.06 | 24 7/8 | 7.1 15.6 |
| BP18T303S | 3 3/16 in. | | | | | | | | |
| BP18T304S | 3 1/4 in. | | | | | | | | |
| BP18T080S | 80 mm | 219.2 8.63 | 178.0 7.01 | 170.6 6.72 | 251.7 9.91 | 241.3 9.50 | 21.0 0.83 | 20 3/4 | 5.4 12.0 |
| BP18T085S | 85 mm | | | | | | | | |
| BP18T307S | 3 7/16 in. | | | | | | | | |
| BP18T308S | 3 1/2 in. | 253.2 9.97 | 196.9 7.75 | 193.1 7.60 | 278.4 10.96 | 273.1 10.75 | 27.0 1.06 | 24 7/8 | 7.1 15.6 |
| BP18T090S | 90 mm | | | | | | | | |
| BP20T311S | 3 1/16 in. | | | | | | | | |
| BP20T312S | 3 3/4 in. | 253.2 9.97 | 196.9 7.75 | 193.1 7.60 | 278.4 10.96 | 273.1 10.75 | 27.0 1.06 | 24 7/8 | 7.1 15.6 |
| BP20T315S | 3 15/16 in. | | | | | | | | |
| BP20T400S | 4 in. | | | | | | | | |
| BP20T100S | 100 mm | 276.4 10.88 | 222.3 8.75 | N/A | 314.3 12.38 | N/A | 25.0 0.98 | 24 7/8 | 8.4 18.5 |
| BP22T110S | 110 mm | | | | | | | | |
| BP22T407S | 4 7/16 in. | | | | | | | | |
| BP22T408S | 4 1/2 in. | 276.4 10.88 | 222.3 8.75 | N/A | 314.3 12.38 | N/A | 25.0 0.98 | 24 7/8 | 8.4 18.5 |
| BP22T115S | 115 mm | | | | | | | | |

Bore Size 110mm – 115mm only available in QMF/QAF Series Housings

BEARING LOADS

Solid-block housed unit bearings are excellent for many applications including those with:

- Heavy radial loads
- Heavy combined radial and thrust loads
- Shock loads
- Harsh contamination conditions
- Low-to-moderate speeds
- The possibility of misalignment

Bearing loads generally come from one of three sources that should all be evaluated and considered when selecting steel housed unit bearings for your application. Contact your Timken engineer for assistance in determining specific application loads and for bearing recommendations.

- Static loads – weights of various components supported by the bearings
- Drive loads – belts, chains or gears that exert forces on the shaft
- Imposed loads – forces generated by equipment operation

Generally, bearing loads are described as being radial (load perpendicular to the axis of the shaft) or axial (load parallel to the axis of the shaft). Axial loads also are referred to as thrust loads. Spherical roller bearings, by design, are very capable of accepting heavy radial loads, even when combined with a thrust load. Timken® Type E housed units are recommended for use in applications when only thrust loads are present or when the thrust component of the load is larger than the radial component. Contact a Timken sales engineer for more information.

To determine the allowable radial load at various RPMs for bearings supporting only radial loads, simply use the charts on pages 36 – 53. For bearings supporting both radial and thrust loads, an equivalent radial load must first be calculated prior to using these tables (see DYNAMIC EQUIVALENT RADIAL LOAD on page 35).

BELT LOADS

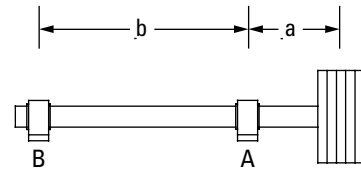
V-belt drives are common sources of drive loads. A good approximation of drive load may be calculated from the formula:

$$\text{Drive Load} = (\text{HP} \times 189000) / (\text{Pulley Diameter} \times \text{RPM})$$

$$\text{Drive Load} = (\text{KW} \times 189000) / (\text{Pulley Diameter} \times \text{RPM})$$

LOAD SHARING

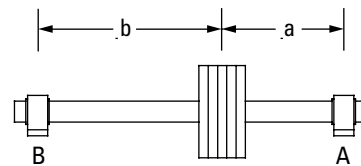
In some cases, bearings may share the load unequally, depending on their position in relationship to the load. Use the appropriate formula below to determine the drive load on each bearing:



$$\text{Load A} = \text{Drive Load} \times (a + b) / b$$

$$\text{Load B} = \text{Drive Load} \times a / b$$

Fig. 30. Overhung load.



$$\text{Load A} = (\text{Drive Load} \times b) / (a + b)$$

$$\text{Load B} = (\text{Drive Load} \times a) / (a + b)$$

Fig. 31. Load between bearings.

DYNAMIC EQUIVALENT RADIAL LOAD

Bearings that support a combination of radial load and thrust load take an unequal load on one of the rows of rollers. The following formulas and bearing geometry factors are used to convert the independent thrust and radial loads into a single equivalent radial load. The calculated dynamic equivalent radial load (P_r) will have the same effect on bearing life (L_{10}) as a radial load of the same magnitude.

$$P_r = F_r + (Y_1 \times F_a) \text{ when } F_a/F_r \leq e$$

$$P_r = (0.67 \times F_r) + (Y_2 \times F_a) \text{ when } F_a/F_r > e$$

where:

P_r = Dynamic equivalent radial load

F_r = Applied radial load (lbs., N)

F_a = Applied thrust (axial) load (lbs., N)

Y_1 , Y_2 and e are bearing geometry factors shown on pages 36 – 38.

BEARING CALCULATED LIFE

Customers select the bearing life of the bearings in equipment they are building. In the absence of a customer bearing life target, the following may be considered as a guideline:

- If the customer's machinery operates eight hours a day, then use a bearing life target of 20000 to 30000 hours.
- If the customer's machinery operates 24 hours a day, then use a bearing life target of 40000 to 60000 hours.

In addition, a service factor may be used where application conditions are harsh. Extreme environmental conditions or heavy shock or vibration will require the adjustment of load ratings before referring to the L_{10} tables. Please contact your Timken engineer for additional information.

Standard spherical roller bearing life calculation:

$$\text{Bearing life} = L_{10} = (C/P_r)^{10/3} \times (16667/\text{RPM})$$

where:

C = Dynamic capacity
(lbs., N)

P_r = Radial load/dynamic equivalent radial load

RPM = Revolutions per minute

A NOTE ON MINIMUM LOADS

In order for a spherical roller bearing to perform as designed, some radial load should be present. This is particularly true if the bearing is running at high speed. Although it is rarely an issue, as the existing static loads (weights of the combined supported components) usually provide an adequate radial load, there are times when it may be necessary to use a shaft diameter larger than the actual loads require. In these instances, the load becomes a small percentage of the bearing's capacity. Radial loads less than 4 percent of C should be avoided.

BEARING RADIAL AND THRUST FACTORS

TABLE 20. V-LOCK SERIES (TAPERED BORE, C3)

| Shaft Dia. | Bearing No. | Dynamic Capacity C | Static Capacity Co | Equivalent Radial Load Factors | | |
|---|-------------|----------------------|-----------------------|--------------------------------|------|------|
| | | | | e | Y1 | Y2 |
| mm in. | | kN lbs. | kN lbs. | | | |
| 50 1 15/16, 2 | 22211 | 140 31400 | 142 31900 | 0.23 | 2.95 | 4.40 |
| 55 2 3/16, 2 1/4 | 22212 | 169 38100 | 174 39000 | 0.24 | 2.84 | 4.23 |
| 55 2 3/16, 2 1/4 | 22213 | 206 46400 | 216 48600 | 0.24 | 2.79 | 4.15 |
| 60, 65 2 7/16, 2 1/2 | 22214 | 213 47800 | 231 52000 | 0.23 | 2.90 | 4.32 |
| 60, 65 2 7/16, 2 1/2 | 22215 | 222 49900 | 240 54100 | 0.22 | 3.14 | 4.67 |
| 70, 75 2 11/16, 2 3/4, 2 15/16, 3 | 22216 | 254 57200 | 278 62500 | 0.22 | 3.14 | 4.67 |
| 70, 75 2 11/16, 2 3/4, 2 15/16, 3 | 22217 | 297 66900 | 320 71900 | 0.22 | 3.07 | 4.57 |
| 80, 85, 90 3 3/16, 3 1/4, 3 7/16, 3 1/2 | 22219 | 385 86600 | 441 99000 | 0.23 | 2.88 | 4.29 |
| 80, 85, 90 3 3/16, 3 1/4, 3 7/16, 3 1/2 | 22220 | 435 97700 | 502 113000 | 0.24 | 2.85 | 4.24 |
| 100 3 11/16, 3 3/4, 3 15/16, 4 | 22222 | 555 125000 | 653 147000 | 0.25 | 2.73 | 4.06 |
| 110 — | 22224 | 647 145000 | 772 174000 | 0.25 | 2.70 | 4.02 |
| 110, 115 4 7/16, 4 1/2 | 22226 | 757 170000 | 945 212000 | 0.26 | 2.62 | 3.90 |
| 125, 130 4 15/16, 5 | 22228 | 863 194000 | 1060 237000 | 0.25 | 2.67 | 3.98 |

TABLE 21. CL SERIES (STRAIGHT BORE, C NORMAL)

| Shaft Dia. | Bearing No. | Dynamic Capacity C | Static Capacity Co | Equivalent Radial Load Factors | | |
|---|-------------|----------------------|----------------------|--------------------------------|------|------|
| | | | | e | Y1 | Y2 |
| mm in. | | kN lbs. | kN lbs. | | | |
| 35 1 7/16, 1 1/2 | 22208 | 104 23400 | 99.7 22400 | 0.27 | 2.47 | 3.67 |
| 40, 45 1 11/16, 1 3/4 | 22209 | 109 24500 | 108 24200 | 0.26 | 2.64 | 3.93 |
| 50 1 15/16, 2 | 22210 | 117 26300 | 118 26600 | 0.24 | 2.84 | 4.23 |
| 55 2 3/16, 2 1/4 | 22211 | 140 31400 | 142 31900 | 0.23 | 2.95 | 4.40 |
| 60, 65 2 7/16, 2 1/2 | 22213 | 206 46400 | 216 48600 | 0.24 | 2.79 | 4.15 |
| 70, 75 2 11/16, 2 3/4, 2 15/16, 3 | 22215 | 222 49900 | 240 54100 | 0.22 | 3.14 | 4.67 |
| 80, 85, 90 3 3/16, 3 1/4, 3 7/16, 3 1/2 | 22218 | 355 79700 | 388 87200 | 0.23 | 2.90 | 4.31 |
| 100 3 15/16, 4 | 22220 | 435 97700 | 502 113000 | 0.24 | 2.85 | 4.24 |
| 110, 115 4 7/16, 4 1/2 | 22222 | 555 125000 | 653 147000 | 0.25 | 2.73 | 4.06 |
| 125, 130 4 15/16, 5 | 22226 | 757 170000 | 945 212000 | 0.26 | 2.62 | 3.90 |

TABLE 22. EC SERIES (STRAIGHT BORE, C NORMAL)

| Shaft Dia. | Bearing No. | Dynamic Capacity C | Static Capacity C ₀ | Equivalent Radial Load Factors | | |
|---|-------------|-----------------------|--------------------------------|--------------------------------|------|------|
| | | | | e | Y1 | Y2 |
| mm in. | | kN lbs. | kN lbs. | | | |
| 35 1 7/16, 1 1/2 | 22208 | 104 23400 | 99.7 22400 | 0.27 | 2.47 | 3.67 |
| 40, 45 1 11/16, 1 3/4 | 22209 | 109 24500 | 108 24200 | 0.26 | 2.64 | 3.93 |
| 50 1 15/16, 2 | 22210 | 117 26300 | 118 26600 | 0.24 | 2.84 | 4.23 |
| 55 2 3/16, 2 1/4 | 22211 | 140 31400 | 142 31900 | 0.23 | 2.95 | 4.40 |
| 60, 65 2 7/16, 2 1/2 | 22213 | 206 46400 | 216 48600 | 0.24 | 2.79 | 4.15 |
| 70, 75 2 11/16, 2 3/4, 2 15/16, 3 | 22215 | 222 49900 | 240 54100 | 0.22 | 3.14 | 4.67 |
| 80, 85, 90 3 3/16, 3 1/4, 3 7/16, 3 1/2 | 22218 | 355 79700 | 388 87200 | 0.23 | 2.90 | 4.31 |
| 100 3 11/16, 3 3/4, 3 15/16, 4 | 22220 | 435 97700 | 502 113000 | 0.24 | 2.85 | 4.24 |
| 110, 115 4 7/16, 4 1/2 | 22222 | 555 125000 | 653 147000 | 0.25 | 2.73 | 4.06 |
| 125, 130 4 15/16, 5 | 22226 | 757 170000 | 945 212000 | 0.26 | 2.62 | 3.90 |
| 140, 150 5 7/16, 5 1/2, 5 15/16, 6 | 23230 | 1270 286000 | 1660 372000 | 0.32 | 2.08 | 3.10 |
| 170, 180 6 7/16, 6 1/2, 6 15/16, 7 | 23234 | 1660 373000 | 2200 494000 | 0.33 | 2.08 | 3.09 |

BEARING RADIAL AND THRUST FACTORS – continued

TABLE 23. TA/TAA DV/DAA SERIES (TAPERED BORE, C3)

| Shaft Dia. | Bearing No. | Dynamic Capacity C | Static Capacity C ₀ | Equivalent Radial Load Factors | | |
|--------------------------------------|-------------|--------------------|--------------------------------|--------------------------------|------|------|
| | | | | e | Y1 | Y2 |
| mm in. | | kN lbs. | kN lbs. | | | |
| 40 1 7/16, 1 1/2 | 22209 | 109 24500 | 108 24200 | 0.26 | 2.64 | 3.93 |
| 45 1 11/16, 1 3/4 | 22210 | 117 26300 | 118 26600 | 0.24 | 2.84 | 4.23 |
| 50 1 15/16, 2 | 22211 | 140 31400 | 142 31900 | 0.23 | 2.95 | 4.40 |
| 55 — | 22212 | 169 38100 | 174 39000 | 0.24 | 2.84 | 4.23 |
| 60 2 3/16, 2 3/16 | 22213 | 206 46400 | 216 48600 | 0.24 | 2.79 | 4.15 |
| 65 2 7/16, 2 1/2 | 22215 | 222 49900 | 240 54100 | 0.22 | 3.14 | 4.67 |
| 70 2 11/16, 2 3/4 | 22216 | 254 57200 | 278 62500 | 0.22 | 3.14 | 4.67 |
| 75 2 15/16, 3 | 22217 | 297 66900 | 320 71900 | 0.22 | 3.07 | 4.57 |
| 80 3 3/16, 3 3/16 | 22218 | 355 79700 | 388 87200 | 0.23 | 2.90 | 4.31 |
| 85 — | 22219 | 385 86600 | 441 99000 | 0.23 | 2.88 | 4.29 |
| 90 3 7/16, 3 1/2 | 22220 | 435 97700 | 502 113000 | 0.24 | 2.85 | 4.24 |
| 100 3 11/16, 3 3/4, 3 15/16, 4 | 22222 | 555 125000 | 653 147000 | 0.25 | 2.73 | 4.06 |
| 110 4 3/16, 4 1/4 | 22224 | 647 145000 | 772 174000 | 0.25 | 2.70 | 4.02 |
| 115 4 7/16, 4 1/2 | 22226 | 757 170000 | 945 212000 | 0.26 | 2.62 | 3.90 |
| 125 4 15/16, 5 | 22228 | 863 194000 | 1060 237000 | 0.25 | 2.67 | 3.98 |
| 135, 140 5 3/8, 5 7/16, 5 1/2 | 23132 | 1160 261000 | 1580 355000 | 0.29 | 2.33 | 3.46 |
| 150 5 13/16, 5 7/8, 5 15/16, 6 | 23134 | 1220 274000 | 1710 384000 | 0.28 | 2.39 | 3.55 |
| 160 6 3/16, 6 3/8, 6 7/16, 6 1/2 | 23136 | 1410 317000 | 2000 450000 | 0.29 | 2.32 | 3.45 |
| 170 6 13/16, 6 7/8, 6 15/16, 7 | 23138 | 1630 366000 | 2340 526000 | 0.30 | 2.26 | 3.36 |
| 180 7 1/8, 7 3/16, 7 1/4 | 23140 | 1660 373000 | 2290 515000 | 0.31 | 2.15 | 3.20 |
| 200 7 13/16, 7 7/8, 7 15/16, 8 | 23144 | 1940 436000 | 2740 616000 | 0.31 | 2.17 | 3.24 |
| 220 8 7/16, 8 1/2, 8 15/16, 9 | 23148 | 2200 495000 | 3180 715000 | 0.30 | 2.28 | 3.40 |
| 240 9 7/16, 9 1/2 | 23152 | 2440 549000 | 3910 879000 | 0.30 | 2.23 | 3.31 |
| 260 9 15/16, 10, 10 7/16, 10 1/2 | 23156 | 2530 569000 | 4140 931000 | 0.30 | 2.26 | 3.36 |
| 280 10 15/16, 11 | 23160 | 3070 690000 | 5110 1149000 | 0.30 | 2.25 | 3.35 |
| 300 11 7/16, 11 1/2, 11 15/16, 12 | 23164 | 3650 821000 | 5930 1333000 | 0.31 | 2.14 | 3.19 |
| 320 12 7/16, 12 1/2 | 23168 | 4110 924000 | 6830 1535000 | 0.30 | 2.22 | 3.30 |
| 340 12 15/16, 13, 13 7/16, 13 1/2 | 23172 | 4250 955000 | 7280 1637000 | 0.29 | 2.29 | 3.42 |
| 360 13 15/16, 14 | 23176 | 4490 1009000 | 7580 1704000 | 0.30 | 2.28 | 3.39 |
| 380 14 15/16, 15 | 23180 | 4770 1072000 | 8110 1823000 | 0.29 | 2.32 | 3.46 |

LOAD RATINGS

TABLE 24. V-LOCK SERIES – ALLOWABLE RADIAL LOAD (kN/LBS.) AT VARIOUS RPM⁽¹⁾

| Shaft Diameter | Bearing No. | C | L ₁₀ Life | Speed ⁽²⁾ | | | | | | | | | | | | | | | |
|-------------------------|-------------|--------------|----------------------|----------------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------------|--------------|--------------|
| | | | | RPM | | | | | | | | | | | | | | | |
| mm in. | | kN lbs. | | 50 | 100 | 200 | 500 | 1000 | 1200 | 1500 | 1800 | 2100 | 2400 | 2700 | 3000 | 3200 | 3500 ⁽¹⁾ | | |
| 50 1 15/16, 2 | 22211 | 140 31400 | 10000 | 50.3 11319 | 40.9 9194 | 33.2 7468 | 25.2 5673 | 20.5 4608 | 19.4 4362 | 18.1 4080 | 17.2 3863 | 16.4 3688 | 15.8 3543 | 15.2 3420 | 14.7 3314 | 14.5 3250 | 14.1 3164 | | |
| | | | 30000 | 36.2 8141 | 29.4 6612 | 23.9 5371 | 18.1 4080 | 14.7 3314 | 14.0 3138 | 13.1 2934 | 12.4 2778 | 11.8 2653 | 11.3 2549 | 10.9 2460 | 10.6 2383 | 10.4 2338 | 10.4 2338 | 10.1 2276 | |
| | | | 40000 | 33.2 7468 | 27.0 6066 | 21.9 4927 | 16.6 3743 | 13.5 3040 | 12.8 2878 | 12.0 2692 | 11.3 2549 | 10.8 2433 | 10.4 2338 | 10.0 2257 | 9.7 2186 | 9.5 2144 | 9.7 2186 | 9.5 2144 | 9.3 2088 |
| | | | 60000 | 29.4 6612 | 23.9 5371 | 19.4 4362 | 14.7 3314 | 12.0 2692 | 11.3 2549 | 10.6 2383 | 10.0 2257 | 9.6 2155 | 9.2 2070 | 9.2 2155 | 8.9 1998 | 8.6 1936 | 8.6 1936 | 8.4 1899 | 8.2 1849 |
| | | | 100000 | 25.2 5673 | 20.5 4608 | 16.6 3743 | 12.6 2843 | 10.3 2309 | 9.7 2186 | 9.1 2045 | 8.6 1936 | 8.2 1849 | 7.9 1776 | 7.9 1776 | 7.6 1714 | 7.4 1661 | 7.4 1661 | 7.2 1629 | 7.1 1586 |
| 55 2 3/16, 2 1/4 | 22212 | 169 38100 | 10000 | 61.1 13734 | 49.6 11155 | 40.3 9061 | 30.6 6883 | 24.9 5591 | 23.5 5293 | 22.0 4951 | 20.8 4687 | 19.9 4475 | 19.1 4300 | 18.5 4150 | 17.9 4021 | 17.5 3944 | 17.1 3839 | | |
| | | | 30000 | 43.9 9878 | 35.7 8023 | 29.0 6517 | 22.0 4951 | 17.9 4021 | 16.9 3807 | 15.8 3561 | 15.0 3371 | 14.3 3219 | 13.8 3092 | 13.3 3092 | 12.9 2985 | 12.9 2985 | 12.6 2892 | 12.3 2837 | |
| | | | 40000 | 40.3 9061 | 32.7 7360 | 26.6 5978 | 20.2 4541 | 16.4 3689 | 15.5 3492 | 14.5 3266 | 13.8 3092 | 13.1 2953 | 12.6 2837 | 12.2 2738 | 11.8 2653 | 11.8 2653 | 11.6 2602 | 11.6 2602 | 11.3 2533 |
| | | | 60000 | 35.7 8023 | 29.0 6517 | 23.5 5293 | 17.9 4021 | 14.5 3266 | 13.8 3092 | 12.9 2892 | 12.2 2738 | 11.6 2614 | 11.2 2512 | 11.2 2512 | 10.8 2425 | 10.4 2349 | 10.4 2349 | 10.2 2304 | 10.0 2243 |
| | | | 100000 | 30.6 6883 | 24.9 5591 | 20.2 4541 | 15.3 3450 | 12.5 2802 | 11.8 2653 | 11.0 2481 | 10.4 2349 | 10.0 2243 | 9.6 2155 | 9.6 2155 | 9.3 2080 | 9.0 2015 | 9.0 2015 | 8.8 1977 | 8.6 1924 |
| 55 2 3/16, 2 1/4 | 22213 | 206 46400 | 10000 | 74.4 16726 | 60.4 13585 | 49.1 11035 | 37.3 8383 | 30.3 6809 | 28.7 6446 | 26.8 6029 | 25.4 5708 | 24.2 5450 | 23.3 5236 | 22.5 5054 | 21.8 4897 | 21.4 4803 | 20.8 4676 | | |
| | | | 30000 | 53.5 12030 | 43.5 9771 | 35.3 7937 | 26.8 6029 | 21.8 4897 | 20.6 4636 | 19.3 4336 | 18.3 4105 | 17.4 3920 | 16.8 3766 | 16.2 3635 | 15.7 3522 | 15.4 3455 | 15.4 3455 | 15.0 3363 | |
| | | | 40000 | 49.1 11035 | 39.9 8963 | 32.4 7280 | 24.6 5531 | 20.0 4492 | 18.9 4253 | 17.7 3978 | 16.8 3766 | 16.0 3596 | 15.4 3455 | 14.8 3335 | 14.4 3231 | 14.4 3231 | 14.1 3169 | 13.7 3085 | |
| | | | 60000 | 43.5 9771 | 35.3 7937 | 28.7 6446 | 21.8 4897 | 17.7 3978 | 16.8 3766 | 15.7 3522 | 14.8 3335 | 14.2 3184 | 13.6 3059 | 13.1 2953 | 12.7 2861 | 12.7 2861 | 12.5 2806 | 12.2 2732 | |
| | | | 100000 | 37.3 8383 | 30.3 6809 | 24.6 5531 | 18.7 4201 | 15.2 3413 | 14.4 3231 | 13.4 3022 | 12.7 2861 | 12.2 2732 | 11.7 2624 | 11.7 2624 | 11.3 2533 | 10.9 2454 | 10.9 2454 | 10.7 2407 | 10.4 2343 |
| 60, 65 2 7/16, 2 1/2 | 22214 | 213 47800 | 10000 | 76.6 17230 | 62.3 13995 | 50.6 11368 | 38.4 8636 | 31.2 7014 | 29.5 6641 | 27.6 6211 | 26.2 5880 | 25.0 5615 | 24.0 5394 | 23.2 5207 | 22.4 5045 | 22.0 4948 | | | |
| | | | 30000 | 55.1 12392 | 44.8 10066 | 36.4 8176 | 27.6 6211 | 22.4 5045 | 21.2 4776 | 19.9 4467 | 18.8 4229 | 18.0 4038 | 17.3 3880 | 16.7 3745 | 16.1 3628 | 16.1 3628 | 15.8 3559 | | |
| | | | 40000 | 50.6 11368 | 41.1 9234 | 33.4 7500 | 25.3 5697 | 20.6 4628 | 19.5 4381 | 18.2 4098 | 17.3 3880 | 16.5 3704 | 15.8 3559 | 15.3 3435 | 14.8 3328 | 14.8 3328 | 14.5 3265 | | |
| | | | 60000 | 44.8 10066 | 36.4 8176 | 29.5 6641 | 22.4 5045 | 18.2 4098 | 17.3 3880 | 16.1 3628 | 15.3 3435 | 14.6 3280 | 14.0 3151 | 13.5 3042 | 13.1 2947 | 13.1 2947 | 12.9 2891 | | |
| | | | 100000 | 38.4 8636 | 31.2 7014 | 25.3 5697 | 19.3 4328 | 15.6 3515 | 14.8 3328 | 13.8 3113 | 13.1 2947 | 12.5 2814 | 12.0 2703 | 11.6 2610 | 11.6 2610 | 11.2 2528 | 11.2 2528 | 11.0 2480 | |

⁽¹⁾Speeds referenced here may be higher than speed rating for seals. Please refer to the charts on pages 56 – 58.

⁽²⁾For speeds greater than thermal reference speed, contact your Timken engineer.

Continued on next page.

LOAD RATINGS – continued

TABLE 25. V-LOCK SERIES – ALLOWABLE RADIAL LOAD (kN/LBS.) AT VARIOUS RPM⁽¹⁾

| Shaft Diameter | Bearing No. | C | L ₁₀ Life | Speed ⁽²⁾ | | | | | | | | | | | | |
|--|-------------|--------------|----------------------|----------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|---------------------|---------------------|---------------------|
| | | | | RPM | | | | | | | | | | | | |
| mm in. | | kN lbs. | | 50 | 100 | 200 | 500 | 1000 | 1200 | 1500 | 1800 | 2100 | 2400 | 2700 ⁽¹⁾ | 3000 ⁽¹⁾ | 3200 ⁽¹⁾ |
| 60, 65 2 1/16, 2 1/2 | 22215 | 222 49900 | 10000 | 80.0 17987 | 65.0 14610 | 52.8 11867 | 40.1 9015 | 32.6 7322 | 30.8 6933 | 28.8 6484 | 27.3 6139 | 26.1 5861 | 25.0 5631 | 24.2 5436 | 23.4 5266 | 23.0 5166 |
| | | | 30000 | 57.5 12937 | 46.7 10508 | 38.0 8535 | 28.8 6484 | 23.4 5266 | 22.2 4986 | 20.7 4663 | 19.6 4415 | 18.8 4216 | 18.0 4050 | 17.4 3909 | 16.8 3788 | 16.5 3715 |
| | | | 40000 | 52.8 11867 | 42.9 9639 | 34.8 7829 | 26.5 5948 | 21.5 4831 | 20.3 4574 | 19.0 4278 | 18.0 4050 | 17.2 3867 | 16.5 3715 | 16.0 3586 | 15.5 3475 | 15.2 3408 |
| | | | 60000 | 46.7 10508 | 38.0 8535 | 30.8 6933 | 23.4 5266 | 19.0 4278 | 18.0 4050 | 16.8 3788 | 16.0 3586 | 15.2 3424 | 14.6 3290 | 14.1 3175 | 13.7 3077 | 13.4 3018 |
| | | | 100000 | 40.1 9015 | 32.6 7322 | 26.5 5948 | 20.1 4518 | 16.3 3670 | 15.5 3475 | 14.5 3250 | 13.7 3077 | 13.1 2938 | 12.6 2822 | 12.1 2724 | 11.7 2639 | 11.5 2589 |
| 70, 75 2 1/16, 2 3/4, 2 15/16, 3 | 22216 | 254 57200 | 10000 | 91.7 20619 | 74.5 16748 | 60.5 13603 | 46.0 10334 | 37.3 8394 | 35.4 7947 | 33.1 7432 | 31.3 7037 | 29.9 6719 | 28.7 6455 | 27.7 6231 | 26.9 6037 | |
| | | | 30000 | 66.0 14829 | 53.6 12045 | 43.5 9784 | 33.1 7432 | 26.9 6037 | 25.4 5716 | 23.8 5346 | 22.5 5061 | 21.5 4832 | 20.7 4643 | 19.9 4481 | 19.3 4342 | |
| | | | 40000 | 60.5 13603 | 49.1 11049 | 39.9 8975 | 30.3 6818 | 24.6 5538 | 23.3 5243 | 21.8 4904 | 20.7 4643 | 19.7 4433 | 18.9 4259 | 18.3 4111 | 17.7 3983 | |
| | | | 60000 | 53.6 12045 | 43.5 9784 | 35.4 7947 | 26.9 6037 | 21.8 4904 | 20.7 4643 | 19.3 4342 | 18.3 4111 | 17.5 3925 | 16.8 3771 | 16.2 3640 | 15.7 3527 | |
| | | | 100000 | 46.0 10334 | 37.3 8394 | 30.3 6818 | 23.0 5179 | 18.7 4207 | 17.7 3983 | 16.6 3725 | 15.7 3527 | 15.0 3367 | 14.4 3235 | 13.9 3123 | 13.5 3026 | |
| 70, 75 2 1/16, 2 3/4, 2 15/16, 3 | 22217 | 297 66900 | 10000 | 107.3 24115 | 87.1 19588 | 70.8 15910 | 53.8 12086 | 43.7 9817 | 41.3 9295 | 38.7 8693 | 36.6 8230 | 35.0 7858 | 33.6 7550 | 32.4 7287 | | |
| | | | 30000 | 77.1 17344 | 62.7 14088 | 50.9 11443 | 38.7 8693 | 31.4 7061 | 29.7 6685 | 27.8 6252 | 26.3 5919 | 25.1 5652 | 24.2 5430 | 23.3 5241 | | |
| | | | 40000 | 70.8 15910 | 57.5 12923 | 46.7 10497 | 35.5 7974 | 28.8 6477 | 27.3 6132 | 25.5 5735 | 24.2 5430 | 23.1 5184 | 22.2 4981 | 21.4 4808 | | |
| | | | 60000 | 62.7 14088 | 50.9 11443 | 41.3 9295 | 31.4 7061 | 25.5 5735 | 24.2 5430 | 22.6 5078 | 21.4 4808 | 20.4 4591 | 19.6 4410 | 18.9 4257 | | |
| | | | 100000 | 53.8 12086 | 43.7 9817 | 35.5 7974 | 26.9 6057 | 21.9 4920 | 20.7 4658 | 19.4 4357 | 18.3 4125 | 17.5 3938 | 16.8 3784 | 16.2 3652 | | |
| 80, 85, 90 3 3/16, 3 1/4, 3 1/2 | 22219 | 385 86600 | 10000 | 138.9 31216 | 112.8 25356 | 91.6 20595 | 69.6 15645 | 56.5 12708 | 53.5 12032 | 50.1 11252 | 47.4 10654 | 45.2 10172 | 43.5 9773 | 42.0 9433 | | |
| | | | 30000 | 99.9 22452 | 81.1 18236 | 65.9 14813 | 50.1 11252 | 40.7 9140 | 38.5 8653 | 36.0 8093 | 34.1 7662 | 32.5 7316 | 31.3 7029 | 30.2 6785 | | |
| | | | 40000 | 91.6 20595 | 74.4 16729 | 60.4 13588 | 45.9 10322 | 37.3 8384 | 35.3 7938 | 33.0 7424 | 31.3 7029 | 29.9 6711 | 28.7 6448 | 27.7 6224 | | |
| | | | 60000 | 81.1 18236 | 65.9 14813 | 53.5 12032 | 40.7 9140 | 33.0 7424 | 31.3 7029 | 29.2 6574 | 27.7 6224 | 26.4 5942 | 25.4 5709 | 24.5 5511 | | |
| | | | 100000 | 69.6 15645 | 56.5 12708 | 45.9 10322 | 34.9 7841 | 28.3 6369 | 26.8 6030 | 25.1 5640 | 23.7 5339 | 22.7 5098 | 21.8 4898 | 21.0 4728 | | |

⁽¹⁾Speeds referenced here may be higher than speed rating for seals. Please refer to the charts on pages 56 – 58.
⁽²⁾For speeds greater than thermal reference speed, contact your Timken engineer.

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| Shaft Diameter | Bearing No. | C | L ₁₀ Life | Speed ⁽²⁾ | | | | | | | | | | | | |
|--|-------------|----------------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|--|--|
| | | | | RPM | | | | | | | | | | | | |
| mm in. | | kN lbs. | | 50 | 100 | 200 | 500 | 1000 | 1200 | 1500 | 1800 ⁽¹⁾ | 2100 ⁽¹⁾ | 2400 ⁽¹⁾ | 2700 ⁽¹⁾ | | |
| 80, 85, 90 3 3/16, 3 1/4, 3 7/16, 3 1/2 | 22220 | 435 97700 | 10000 | 156.7 35218 | 127.2 28606 | 103.4 23235 | 78.5 17651 | 63.8 14337 | 60.4 13574 | 56.5 12695 | 53.5 12019 | 51.0 11476 | 49.0 11025 | 47.3 10642 | | |
| | | | 30000 | 112.7 25329 | 91.5 20574 | 74.3 16711 | 56.5 12695 | 45.9 10311 | 43.4 9762 | 40.6 9130 | 38.5 8644 | 36.7 8254 | 35.3 7930 | 34.0 7654 | | |
| | | | 40000 | 103.4 23235 | 84.0 18873 | 68.2 15329 | 51.8 11645 | 42.1 9459 | 39.8 8955 | 37.3 8375 | 35.3 7930 | 33.7 7571 | 32.4 7274 | 31.2 7021 | | |
| | | | 60000 | 91.5 20574 | 74.3 16711 | 60.4 13574 | 45.9 10311 | 37.3 8375 | 35.3 7930 | 33.0 7416 | 31.2 7021 | 29.8 6704 | 28.7 6441 | 27.7 6217 | | |
| | | | 100000 | 78.5 17651 | 63.8 14337 | 51.8 11645 | 39.3 8846 | 32.0 7185 | 30.3 6803 | 28.3 6362 | 26.8 6024 | 25.6 5752 | 24.6 5526 | 23.7 5334 | | |
| 100 3 11/16, 3 3/4, 3 15/16, 4 | 22222 | 555 125000 | 10000 | 200.4 45058 | 162.8 36599 | 132.2 29727 | 100.5 22583 | 81.6 18343 | 77.3 17367 | 72.2 16242 | 68.4 15377 | 65.3 14683 | 62.7 14106 | | | |
| | | | 30000 | 144.2 32407 | 117.1 26323 | 95.1 21381 | 72.2 16242 | 58.7 13193 | 55.6 12490 | 52.0 11682 | 49.2 11060 | 47.0 10560 | 45.1 10145 | | | |
| | | | 40000 | 132.2 29727 | 107.4 24146 | 87.2 19613 | 66.3 14899 | 53.8 12102 | 51.0 11458 | 47.7 10716 | 45.1 10145 | 43.1 9687 | 41.4 9306 | | | |
| | | | 60000 | 117.1 26323 | 95.1 21381 | 77.3 17367 | 58.7 13193 | 47.7 10716 | 45.1 10145 | 42.2 9488 | 40.0 8983 | 38.2 8577 | 36.7 8241 | | | |
| | | | 100000 | 100.5 22583 | 81.6 18343 | 66.3 14899 | 50.3 11318 | 40.9 9193 | 38.7 8704 | 36.2 8140 | 34.3 7707 | 32.7 7359 | 31.4 7070 | | | |
| 110 — | 22224 | 647 145000 | 10000 | 232.5 52268 | 188.8 42455 | 153.4 34484 | 116.5 26196 | 94.6 21278 | 89.6 20145 | 83.8 18841 | 79.3 17838 | 75.8 17032 | 72.8 16363 | | | |
| | | | 30000 | 167.2 37592 | 135.8 30534 | 110.3 24802 | 83.8 18841 | 68.1 15303 | 64.5 14489 | 60.3 13551 | 57.1 12829 | 54.5 12250 | 52.4 11769 | | | |
| | | | 40000 | 153.4 34484 | 124.6 28010 | 101.2 22751 | 76.9 17283 | 62.4 14038 | 59.1 13291 | 55.3 12430 | 52.4 11769 | 50.0 11237 | 48.0 10796 | | | |
| | | | 60000 | 135.8 30534 | 110.3 24802 | 89.6 20145 | 68.1 15303 | 55.3 12430 | 52.4 11769 | 49.0 11007 | 46.4 10421 | 44.3 9950 | 42.5 9559 | | | |
| | | | 100000 | 116.5 26196 | 94.6 21278 | 76.9 17283 | 58.4 13129 | 47.4 10664 | 44.9 10097 | 42.0 9443 | 39.8 8940 | 38.0 8536 | 36.5 8201 | | | |

⁽¹⁾Speeds referenced here may be higher than speed rating for seals. Please refer to the charts on pages 56 – 58.

⁽²⁾For speeds greater than thermal reference speed, contact your Timken engineer.

Continued on next page.

LOAD RATINGS – *continued*

TABLE 25. V-LOCK SERIES – ALLOWABLE RADIAL LOAD (kN/LBS.) AT VARIOUS RPM⁽¹⁾

| Shaft Diameter | Bearing No. | C | L ₁₀ Life | Speed ⁽²⁾ | | | | | | | | |
|----------------------------------|-------------|----------------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
| | | | | RPM | | | | | | | | |
| mm in. | | kN lbs. | | 50 | 100 | 200 | 500 | 1000 | 1200 ⁽¹⁾ | 1500 ⁽¹⁾ | 1800 ⁽¹⁾ | 2100 ⁽¹⁾ |
| 110, 115 4 7/16, 4 1/2 | 22226 | 757 170000 | 10000 | 272.6 61279 | 221.4 49774 | 179.8 40429 | 136.6 30712 | 111.0 24946 | 105.1 23618 | 98.3 22089 | 93.0 20913 | 88.8 19968 |
| | | | 30000 | 196.1 44074 | 159.2 35799 | 129.3 29078 | 98.3 22089 | 79.8 17942 | 75.6 16987 | 70.7 15887 | 66.9 15041 | 63.9 14362 |
| | | | 40000 | 179.8 40429 | 146.1 32839 | 118.6 26673 | 90.1 20263 | 73.2 16458 | 69.3 15582 | 64.8 14573 | 61.4 13798 | 58.6 13174 |
| | | | 60000 | 159.2 35799 | 129.3 29078 | 105.1 23618 | 79.8 17942 | 64.8 14573 | 61.4 13798 | 57.4 12904 | 54.3 12217 | 51.9 11665 |
| | | | 100000 | 136.6 30712 | 111.0 24946 | 90.1 20263 | 68.5 15393 | 55.6 12503 | 52.7 11837 | 49.2 11071 | 46.6 10482 | 44.5 10008 |
| | | | | | | | 50 | 100 | 200 | 500 | 1000 ⁽¹⁾ | 1200 ⁽¹⁾ |
| 125, 130 4 15/16, 5 | 22228 | 863 194000 | 10000 | 311.1 69931 | 252.7 56801 | 205.2 46137 | 155.9 35048 | 126.6 28468 | 119.9 26953 | 112.1 25208 | 106.2 23866 | |
| | | | 30000 | 223.7 50296 | 181.7 40853 | 147.6 33183 | 112.1 25208 | 91.1 20475 | 86.2 19385 | 80.6 18130 | 76.4 17165 | |
| | | | 40000 | 205.2 46137 | 166.7 37475 | 135.4 30439 | 102.9 23123 | 83.5 18782 | 79.1 17782 | 74.0 16631 | 70.0 15746 | |
| | | | 60000 | 181.7 40853 | 147.6 33183 | 119.9 26953 | 91.1 20475 | 74.0 16631 | 70.0 15746 | 65.5 14726 | 62.0 13942 | |
| | | | 100000 | 155.9 35048 | 126.6 28468 | 102.9 23123 | 78.1 17566 | 63.5 14268 | 60.1 13508 | 56.2 12634 | 53.2 11961 | |

⁽¹⁾Speeds referenced here may be higher than speed rating for seals. Please refer to the charts on pages 56 – 58.

⁽²⁾For speeds greater than thermal reference speed, contact your Timken engineer.

TABLE 26. CL SERIES – ALLOWABLE RADIAL LOAD (kN/LBS.) AT VARIOUS RPM⁽¹⁾

| Shaft Diameter | Bearing No. | C | L ₁₀ Life | Speed ⁽²⁾ | | | | | | | | | | | | | | |
|-------------------------|-------------|--------------|----------------------|----------------------|-------|-------|------|------|------|------|------|------|------|------|------|---------------------|---------------------|---------------------|
| | | | | RPM | | | | | | | | | | | | | | |
| mm in. | | kN lbs. | | 50 | 100 | 200 | 500 | 1000 | 1200 | 1500 | 1800 | 2100 | 2400 | 2700 | 3000 | 3200 | 3500 | |
| 35 1 1/16, 1 1/2 | 22208 | 104 23400 | 10000 | 37.5 | 30.5 | 24.8 | 18.8 | 15.3 | 14.5 | 13.5 | 12.8 | 12.2 | 11.7 | 11.3 | 11.0 | 10.8 | 10.5 | |
| | | | | 8435 | 6851 | 5565 | 4227 | 3434 | 3251 | 3041 | 2879 | 2749 | 2641 | 2549 | 2470 | 2422 | 2358 | |
| | | | | 30000 | 27.0 | 21.9 | 17.8 | 13.5 | 11.0 | 10.4 | 9.7 | 9.2 | 8.8 | 8.4 | 8.2 | 7.9 | 7.7 | 7.5 |
| | | | | 6067 | 4928 | 4002 | 3041 | 2470 | 2338 | 2187 | 2070 | 1977 | 1899 | 1833 | 1776 | 1742 | 1696 | |
| | | | | 40000 | 24.8 | 20.1 | 16.3 | 12.4 | 10.1 | 9.5 | 8.9 | 8.4 | 8.1 | 7.7 | 7.5 | 7.2 | 7.1 | 6.9 |
| | | | | 5565 | 4520 | 3672 | 2789 | 2265 | 2145 | 2006 | 1899 | 1813 | 1742 | 1682 | 1629 | 1598 | 1556 | |
| 40, 45 1 1/16, 1 3/4 | 22209 | 109 24500 | 10000 | 39.3 | 31.9 | 25.9 | 19.7 | 16.0 | 15.1 | 14.2 | 13.4 | 12.8 | 12.3 | 11.9 | 11.5 | 11.3 | 11.0 | |
| | | | | 8831 | 7173 | 5827 | 4426 | 3595 | 3404 | 3183 | 3014 | 2878 | 2765 | 2669 | 2586 | 2536 | 2469 | |
| | | | | 30000 | 28.3 | 22.9 | 18.6 | 14.2 | 11.5 | 10.9 | 10.2 | 9.6 | 9.2 | 8.8 | 8.5 | 8.3 | 8.1 | 7.9 |
| | | | | 6352 | 5159 | 4191 | 3183 | 2586 | 2448 | 2290 | 2168 | 2070 | 1988 | 1919 | 1860 | 1824 | 1776 | |
| | | | | 40000 | 25.9 | 21.1 | 17.1 | 13.0 | 10.6 | 10.0 | 9.3 | 8.8 | 8.4 | 8.1 | 7.8 | 7.6 | 7.4 | 7.2 |
| | | | | 5827 | 4733 | 3844 | 2920 | 2372 | 2246 | 2100 | 1988 | 1899 | 1824 | 1761 | 1706 | 1673 | 1629 | |
| 50 1 15/16, 2 | 22210 | 117 26300 | 10000 | 42.2 | 34.3 | 27.8 | 21.1 | 17.2 | 16.3 | 15.2 | 14.4 | 13.7 | 13.2 | 12.7 | 12.3 | 12.1 | 11.8 | |
| | | | | 9480 | 7700 | 6255 | 4751 | 3859 | 3654 | 3417 | 3235 | 3089 | 2968 | 2865 | 2776 | 2723 | 2650 | |
| | | | | 30000 | 30.3 | 24.6 | 20.0 | 15.2 | 12.3 | 11.7 | 10.9 | 10.4 | 9.9 | 9.5 | 9.2 | 8.9 | 8.7 | 8.5 |
| | | | | 6818 | 5538 | 4498 | 3417 | 2776 | 2628 | 2458 | 2327 | 2222 | 2135 | 2060 | 1996 | 1958 | 1906 | |
| | | | | 40000 | 27.8 | 22.6 | 18.4 | 13.9 | 11.3 | 10.7 | 10.0 | 9.5 | 9.1 | 8.7 | 8.4 | 8.1 | 8.0 | 7.8 |
| | | | | 6255 | 5080 | 4127 | 3135 | 2546 | 2411 | 2255 | 2135 | 2038 | 1958 | 1890 | 1831 | 1796 | 1749 | |
| 55 2 3/16, 2 1/4 | 22211 | 140 31400 | 10000 | 44.2 | 36.0 | 29.0 | 22.0 | 18.0 | 17.0 | 16.0 | 15.0 | 14.0 | 13.0 | 12.0 | 11.0 | 10.0 | 9.0 | |
| | | | | 4426 | 3595 | 2920 | 2218 | 1802 | 1706 | 1595 | 1511 | 1442 | 1386 | 1338 | 1296 | 1271 | 1237 | |
| | | | | 30000 | 33.2 | 27.0 | 21.9 | 16.6 | 13.5 | 12.8 | 12.0 | 11.3 | 10.8 | 10.4 | 10.0 | 9.7 | 9.5 | 9.3 |
| | | | | 7468 | 6066 | 4927 | 3743 | 3040 | 2878 | 2692 | 2549 | 2433 | 2338 | 2257 | 2186 | 2144 | 2088 | |
| | | | | 40000 | 29.4 | 23.9 | 19.4 | 14.7 | 12.0 | 11.3 | 10.6 | 10.0 | 9.6 | 9.2 | 8.9 | 8.6 | 8.4 | 8.2 |
| | | | | 6612 | 5371 | 4362 | 3314 | 2692 | 2549 | 2383 | 2257 | 2155 | 2070 | 1998 | 1936 | 1899 | 1849 | |
| 60, 65 2 1/16, 2 1/2 | 22213 | 206 46400 | 10000 | 50.3 | 40.9 | 33.2 | 25.2 | 20.5 | 19.4 | 18.1 | 17.2 | 16.4 | 15.8 | 15.2 | 14.7 | 14.5 | 14.1 | |
| | | | | 11319 | 9194 | 7468 | 5673 | 4608 | 4362 | 4080 | 3863 | 3688 | 3543 | 3420 | 3314 | 3250 | 3164 | |
| | | | | 30000 | 36.2 | 29.4 | 23.9 | 18.1 | 14.7 | 14.0 | 13.1 | 12.4 | 11.8 | 11.3 | 10.9 | 10.6 | 10.4 | 10.1 |
| | | | | 8141 | 6612 | 5371 | 4080 | 3314 | 3138 | 2934 | 2778 | 2653 | 2549 | 2460 | 2383 | 2338 | 2276 | |
| | | | | 40000 | 33.2 | 27.0 | 21.9 | 16.6 | 13.5 | 12.8 | 12.0 | 11.3 | 10.8 | 10.4 | 10.0 | 9.7 | 9.5 | 9.3 |
| | | | | 7468 | 6066 | 4927 | 3743 | 3040 | 2878 | 2692 | 2549 | 2433 | 2338 | 2257 | 2186 | 2144 | 2088 | |
| | | | 100000 | 25.2 | 20.5 | 16.6 | 12.6 | 10.3 | 9.7 | 9.1 | 8.6 | 8.2 | 7.9 | 7.6 | 7.4 | 7.2 | 7.1 | |
| | | | | 5673 | 4608 | 3743 | 2843 | 2309 | 2186 | 2045 | 1936 | 1849 | 1776 | 1714 | 1661 | 1629 | 1586 | |
| | | | | 30000 | 50 | 100 | 200 | 500 | 1000 | 1200 | 1500 | 1800 | 2100 | 2400 | 2700 | 3000 ⁽¹⁾ | 3200 ⁽¹⁾ | 3500 ⁽¹⁾ |
| | | | | 10000 | 74.4 | 60.4 | 49.1 | 37.3 | 30.3 | 28.7 | 26.8 | 25.4 | 24.2 | 23.3 | 22.5 | 21.8 | 21.4 | 20.8 |
| | | | | 16726 | 13585 | 11035 | 8383 | 6809 | 6446 | 6029 | 5708 | 5450 | 5236 | 5054 | 4897 | 4803 | 4676 | |
| | | | | 30000 | 53.5 | 43.5 | 35.3 | 26.8 | 21.8 | 20.6 | 19.3 | 18.3 | 17.4 | 16.8 | 16.2 | 15.7 | 15.4 | 15.0 |
| 12030 | 9771 | 7937 | 6029 | 4897 | 4636 | 4336 | 4105 | 3920 | 3766 | 3635 | 3522 | 3455 | 3363 | | | | | |
| 40000 | 49.1 | 39.9 | 32.4 | 24.6 | 20.0 | 18.9 | 17.7 | 16.8 | 16.0 | 15.4 | 14.8 | 14.4 | 14.1 | 13.7 | | | | |
| 11035 | 8963 | 7280 | 5531 | 4492 | 4253 | 3978 | 3766 | 3596 | 3455 | 3335 | 3231 | 3169 | 3085 | | | | | |
| 60000 | 43.5 | 35.3 | 28.7 | 21.8 | 17.7 | 16.8 | 15.7 | 14.8 | 14.2 | 13.6 | 13.1 | 12.7 | 12.5 | 12.2 | | | | |
| 9771 | 7937 | 6446 | 4897 | 3978 | 3766 | 3522 | 3335 | 3184 | 3059 | 2953 | 2861 | 2806 | 2732 | | | | | |
| 100000 | 37.3 | 30.3 | 24.6 | 18.7 | 15.2 | 14.4 | 13.4 | 12.7 | 12.2 | 11.7 | 11.3 | 10.9 | 10.7 | 10.4 | | | | |
| 8383 | 6809 | 5531 | 4201 | 3413 | 3231 | 3022 | 2861 | 2732 | 2624 | 2533 | 2454 | 2407 | 2343 | | | | | |

⁽¹⁾Speeds referenced here may be higher than speed rating for seals. Please refer to the charts on pages 56 – 58.

Continued on next page.

⁽²⁾For speeds greater than thermal reference speed, contact your Timken engineer.

LOAD RATINGS – continued

TABLE 26. CL SERIES – ALLOWABLE RADIAL LOAD (kN/LBS.) AT VARIOUS RPM⁽¹⁾

| Shaft Diameter | Bearing No. | C | L ₁₀ Life | Speed ⁽²⁾ | | | | | | | | | | | | | |
|---|-------------|---------------|----------------------|----------------------|----------------|----------------|----------------|----------------|----------------|---------------|---------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| | | | | RPM | | | | | | | | | | | | | |
| mm in. | | kN lbs. | | 50 | 100 | 200 | 500 | 1000 | 1200 | 1500 | 1800 | 2100 | 2400 | 2700 ⁽¹⁾ | 3000 ⁽¹⁾ | 3200 ⁽¹⁾ | |
| 70, 75 2 1/16, 2 3/4, 2 15/16, 3 | 22215 | 220 49900 | 10000 | 80.0 17987 | 65.0 14610 | 52.8 11867 | 40.1 9015 | 32.6 7322 | 30.8 6933 | 28.8 6484 | 27.3 6139 | 26.1 5861 | 25.0 5631 | 24.2 5436 | 23.4 5266 | 23.0 5166 | |
| | | | 30000 | 57.5 12937 | 46.7 10508 | 38.0 8535 | 28.8 6484 | 23.4 5266 | 22.2 4986 | 20.7 4663 | 19.6 4415 | 18.8 4216 | 18.0 4050 | 17.4 3909 | 16.8 3788 | 16.5 3715 | |
| | | | 40000 | 52.8 11867 | 42.9 9639 | 34.8 7829 | 26.5 5948 | 21.5 4831 | 20.3 4574 | 19.0 4278 | 18.0 4050 | 17.2 3867 | 16.5 3715 | 16.0 3586 | 15.5 3475 | 15.2 3408 | |
| | | | 60000 | 46.7 10508 | 38.0 8535 | 30.8 6933 | 23.4 5266 | 19.0 4278 | 18.0 4050 | 16.8 3788 | 16.0 3586 | 15.2 3424 | 14.6 3290 | 14.1 3175 | 13.7 3077 | 13.4 3018 | |
| | | | 100000 | 40.1 9015 | 32.6 7322 | 26.5 5948 | 20.1 4518 | 16.3 3670 | 15.5 3475 | 14.5 3250 | 13.7 3077 | 13.1 2938 | 12.6 2822 | 12.1 2724 | 11.7 2639 | 11.5 2589 | |
| | | | | | | | 50 | 100 | 200 | 500 | 1000 | 1200 | 1500 | 1800 | 2100 ⁽¹⁾ | 2400 ⁽¹⁾ | 2700 ⁽¹⁾ |
| 80, 85, 90 3 3/16, 3 1/4, 3 1/2, 3 1/2 | 22218 | 355 79700 | 10000 | 127.8 28729 | 103.8 23335 | 84.3 18954 | 64.0 14399 | 52.0 11695 | 49.3 11073 | 46.1 10356 | 43.6 9805 | 41.6 9362 | 40.0 8994 | 38.6 8682 | | | |
| | | | 30000 | 91.9 20663 | 74.7 16783 | 60.6 13632 | 46.1 10356 | 37.4 8412 | 35.4 7964 | 33.1 7448 | 31.4 7052 | 29.9 6733 | 28.8 6469 | 27.8 6244 | | | |
| | | | 40000 | 84.3 18954 | 68.5 15396 | 55.6 12505 | 42.3 9500 | 34.3 7716 | 32.5 7305 | 30.4 6832 | 28.8 6469 | 27.5 6176 | 26.4 5934 | 25.5 5728 | | | |
| | | | 60000 | 74.7 16783 | 60.6 13632 | 49.3 11073 | 37.4 8412 | 30.4 6832 | 28.8 6469 | 26.9 6050 | 25.5 5728 | 24.3 5469 | 23.4 5254 | 22.6 5072 | | | |
| | | | 100000 | 64.0 14399 | 52.0 11695 | 42.3 9500 | 32.1 7216 | 26.1 5862 | 24.7 5550 | 23.1 5190 | 21.9 4914 | 20.9 4692 | 20.1 4508 | 19.4 4351 | | | |
| | | | | | | | 50 | 100 | 200 | 500 | 1000 | 1200 | 1500 | 1800 ⁽¹⁾ | 2100 ⁽¹⁾ | 2400 ⁽¹⁾ | 2700 ⁽¹⁾ |
| 100 3 15/16, 4 | 22220 | 435 97700 | 10000 | 156.7 35218 | 127.2 28606 | 103.4 23235 | 78.5 17651 | 63.8 14337 | 60.4 13574 | 56.5 12695 | 53.5 12019 | 51.0 11476 | 49.0 11025 | 47.3 10642 | | | |
| | | | 30000 | 112.7 25329 | 91.5 20574 | 74.3 16711 | 56.5 12695 | 45.9 10311 | 43.4 9762 | 40.6 9130 | 38.5 8644 | 36.7 8254 | 35.3 7930 | 34.0 7654 | | | |
| | | | 40000 | 103.4 23235 | 84.0 18873 | 68.2 15329 | 51.8 11645 | 42.1 9459 | 39.8 8955 | 37.3 8375 | 35.3 7930 | 33.7 7571 | 32.4 7274 | 31.2 7021 | 31.2 7021 | | |
| | | | 60000 | 91.5 20574 | 74.3 16711 | 60.4 13574 | 45.9 10311 | 37.3 8375 | 35.3 7930 | 33.0 7416 | 31.2 7021 | 29.8 6704 | 28.7 6441 | 27.7 6217 | | | |
| | | | 100000 | 78.5 17651 | 63.8 14337 | 51.8 11645 | 39.3 8846 | 32.0 7185 | 30.3 6803 | 28.3 6362 | 26.8 6024 | 25.6 5752 | 24.6 5526 | 23.7 5334 | | | |
| | | | | | | | 50 | 100 | 200 | 500 | 1000 | 1200 | 1500 ⁽¹⁾ | 1800 ⁽¹⁾ | 2100 ⁽¹⁾ | 2400 ⁽¹⁾ | |
| 110, 115 4 7/16, 4 1/2 | 22222 | 555 125000 | 10000 | 200.4 45058 | 162.8 36599 | 132.2 29727 | 100.5 22583 | 81.6 18343 | 77.3 17367 | 72.2 16242 | 68.4 15377 | 65.3 14683 | 62.7 14106 | | | | |
| | | | 30000 | 144.2 32407 | 117.1 26323 | 95.1 21381 | 72.2 16242 | 58.7 13193 | 55.6 12490 | 52.0 11682 | 49.2 11060 | 47.0 10560 | 45.1 10145 | | | | |
| | | | 40000 | 132.2 29727 | 107.4 24146 | 87.2 19613 | 66.3 14899 | 53.8 12102 | 51.0 11458 | 47.7 10716 | 45.1 10145 | 43.1 9687 | 41.4 9306 | | | | |
| | | | 60000 | 117.1 26323 | 95.1 21381 | 77.3 17367 | 58.7 13193 | 47.7 10716 | 45.1 10145 | 42.2 9488 | 40.0 8983 | 38.2 8577 | 36.7 8241 | | | | |
| | | | 100000 | 100.5 22583 | 81.6 18343 | 66.3 14899 | 50.3 11318 | 40.9 9193 | 38.7 8704 | 36.2 8140 | 34.3 7707 | 32.7 7359 | 31.4 7070 | | | | |
| | | | | | | | 50 | 100 | 200 | 500 | 1000 | 1200 ⁽¹⁾ | 1500 ⁽¹⁾ | 1800 ⁽¹⁾ | 2100 ⁽¹⁾ | | |
| 125, 130 4 15/16, 5 | 22226 | 757 170000 | 10000 | 272.6 61279 | 221.4 49774 | 179.8 40429 | 136.6 30712 | 111.0 24946 | 105.1 23618 | 98.3 22089 | 93.0 20913 | 88.8 19968 | | | | | |
| | | | 30000 | 196.1 44074 | 159.2 35799 | 129.3 29078 | 98.3 22089 | 79.8 17942 | 75.6 16987 | 70.7 15887 | 66.9 15041 | 63.9 14362 | | | | | |
| | | | 40000 | 179.8 40429 | 146.1 32839 | 118.6 26673 | 90.1 20263 | 73.2 16458 | 69.3 15582 | 64.8 14573 | 61.4 13798 | 58.6 13174 | | | | | |
| | | | 60000 | 159.2 35799 | 129.3 29078 | 105.1 23618 | 79.8 17942 | 64.8 14573 | 61.4 13798 | 57.4 12904 | 54.3 12217 | 51.9 11665 | | | | | |
| | | | 100000 | 136.6 30712 | 111.0 24946 | 90.1 20263 | 68.5 15393 | 55.6 12503 | 52.7 11837 | 49.2 11071 | 46.6 10482 | 44.5 10008 | | | | | |
| | | | | | | | 50 | 100 | 200 | 500 | 1000 | 1200 ⁽¹⁾ | 1500 ⁽¹⁾ | 1800 ⁽¹⁾ | 2100 ⁽¹⁾ | | |

⁽¹⁾Speeds referenced here may be higher than speed rating for seals. Please refer to the charts on pages 56 – 58.

⁽²⁾For speeds greater than thermal reference speed, contact your Timken engineer.

TABLE 27. EC SERIES – ALLOWABLE RADIAL LOAD (kN/LBS.) AT VARIOUS RPM⁽¹⁾

| Shaft Diameter | Bearing No. | C | L ₁₀ Life | Speed ⁽²⁾ | | | | | | | | | | | | | |
|-------------------------|-------------|--------------|----------------------|----------------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | | | RPM | | | | | | | | | | | | | |
| mm in. | | kN lbs. | | 50 | 100 | 200 | 500 | 1000 | 1200 | 1500 | 1800 | 2100 | 2400 | 2700 | 3000 | 3200 | 3500 |
| 35 1 1/16, 1 1/2 | 22208 | 104 23400 | 10000 | 37.5 8435 | 30.5 6851 | 24.8 5565 | 18.8 4227 | 15.3 3434 | 14.5 3251 | 13.5 3041 | 12.8 2879 | 12.2 2749 | 11.7 2641 | 11.3 2549 | 11.0 2470 | 10.8 2422 | 10.5 2358 |
| | | | 30000 | 27.0 6067 | 21.9 4928 | 17.8 4002 | 13.5 3041 | 11.0 2470 | 10.4 2338 | 9.7 2187 | 9.2 2070 | 8.8 1977 | 8.4 1899 | 8.2 1833 | 7.9 1776 | 7.7 1742 | 7.5 1696 |
| | | | 40000 | 24.8 5565 | 20.1 4520 | 16.3 3672 | 12.4 2789 | 10.1 2265 | 9.5 2145 | 8.9 2006 | 8.4 1899 | 8.1 1813 | 7.7 1742 | 7.5 1682 | 7.2 1629 | 7.1 1598 | 6.9 1556 |
| | | | 60000 | 21.9 4928 | 17.8 4002 | 14.5 3251 | 11.0 2470 | 8.9 2006 | 8.4 1899 | 7.9 1776 | 7.5 1682 | 7.1 1606 | 6.9 1543 | 6.6 1489 | 6.4 1443 | 6.3 1415 | 6.1 1378 |
| | | | 100000 | 18.8 4227 | 15.3 3434 | 12.4 2789 | 9.4 2119 | 7.7 1721 | 7.2 1629 | 6.8 1524 | 6.4 1443 | 6.1 1378 | 5.9 1323 | 5.7 1278 | 5.5 1238 | 5.4 1214 | 5.3 1182 |
| 40, 45 1 1/16, 1 3/4 | 22209 | 109 24500 | 10000 | 39.3 8831 | 31.9 7173 | 25.9 5827 | 19.7 4426 | 16.0 3595 | 15.1 3404 | 14.2 3183 | 13.4 3014 | 12.8 2878 | 12.3 2765 | 11.9 2669 | 11.5 2586 | 11.3 2536 | 11.0 2469 |
| | | | 30000 | 28.3 6352 | 22.9 5159 | 18.6 4191 | 14.2 3183 | 11.5 2586 | 10.9 2448 | 10.2 2290 | 9.6 2168 | 9.2 2070 | 8.8 1988 | 8.5 1919 | 8.3 1860 | 8.1 1824 | 7.9 1776 |
| | | | 40000 | 25.9 5827 | 21.1 4733 | 17.1 3844 | 13.0 2920 | 10.6 2372 | 10.0 2246 | 9.3 2100 | 8.8 1988 | 8.4 1899 | 8.1 1824 | 7.8 1761 | 7.6 1706 | 7.4 1673 | 7.2 1629 |
| | | | 60000 | 22.9 5159 | 18.6 4191 | 15.1 3404 | 11.5 2586 | 9.3 2100 | 8.8 1988 | 8.3 1860 | 7.8 1761 | 7.5 1681 | 7.2 1615 | 6.9 1559 | 6.7 1511 | 6.6 1482 | 6.4 1442 |
| | | | 100000 | 19.7 4426 | 16.0 3595 | 13.0 2920 | 9.9 2218 | 8.0 1802 | 7.6 1706 | 7.1 1595 | 6.7 1511 | 6.4 1442 | 6.2 1386 | 6.0 1338 | 5.8 1296 | 5.7 1271 | 5.5 1237 |
| 50 1 1/16, 2 | 22210 | 117 26300 | 10000 | 42.2 9480 | 34.3 7700 | 27.8 6255 | 21.1 4751 | 17.2 3859 | 16.3 3654 | 15.2 3417 | 14.4 3235 | 13.7 3089 | 13.2 2968 | 12.7 2865 | 12.3 2776 | 12.1 2723 | 11.8 2650 |
| | | | 30000 | 30.3 6818 | 24.6 5538 | 20.0 4498 | 15.2 3417 | 12.3 2776 | 11.7 2628 | 10.9 2458 | 10.4 2327 | 9.9 2222 | 9.5 2135 | 9.2 2060 | 8.9 1996 | 8.7 1958 | 8.5 1906 |
| | | | 40000 | 27.8 6255 | 22.6 5080 | 18.4 4127 | 13.9 3135 | 11.3 2546 | 10.7 2411 | 10.0 2255 | 9.5 2135 | 9.1 2038 | 8.7 1958 | 8.4 1890 | 8.1 1831 | 8.0 1796 | 7.8 1749 |
| | | | 60000 | 24.6 5538 | 20.0 4498 | 16.3 3654 | 12.3 2776 | 10.0 2255 | 9.5 2135 | 8.9 1996 | 8.4 1890 | 8.0 1805 | 7.7 1734 | 7.4 1674 | 7.2 1622 | 7.1 1590 | 6.9 1548 |
| | | | 100000 | 21.1 4751 | 17.2 3859 | 13.9 3135 | 10.6 2381 | 8.6 1934 | 8.1 1831 | 7.6 1713 | 7.2 1622 | 6.9 1548 | 6.6 1487 | 6.4 1436 | 6.2 1391 | 6.1 1364 | 5.9 1328 |
| 55 2 3/16, 2 1/4 | 22211 | 140 31400 | 10000 | 50.3 11319 | 40.9 9194 | 33.2 7468 | 25.2 5673 | 20.5 4608 | 19.4 4362 | 18.1 4080 | 17.2 3863 | 16.4 3688 | 15.8 3543 | 15.2 3420 | 14.7 3314 | 14.5 3250 | 14.1 3164 |
| | | | 30000 | 36.2 8141 | 29.4 6612 | 23.9 5371 | 18.1 4080 | 14.7 3314 | 14.0 3138 | 13.1 2934 | 12.4 2778 | 11.8 2653 | 11.3 2549 | 10.9 2460 | 10.6 2383 | 10.4 2338 | 10.1 2276 |
| | | | 40000 | 33.2 7468 | 27.0 6066 | 21.9 4927 | 16.6 3743 | 13.5 3040 | 12.8 2878 | 12.0 2692 | 11.3 2549 | 10.8 2433 | 10.4 2338 | 10.0 2257 | 9.7 2186 | 9.5 2144 | 9.3 2088 |
| | | | 60000 | 29.4 6612 | 23.9 5371 | 19.4 4362 | 14.7 3314 | 12.0 2692 | 11.3 2549 | 10.6 2383 | 10.0 2257 | 9.6 2155 | 9.2 2070 | 8.9 1998 | 8.6 1936 | 8.4 1899 | 8.2 1849 |
| | | | 100000 | 25.2 5673 | 20.5 4608 | 16.6 3743 | 12.6 2843 | 10.3 2309 | 9.7 2186 | 9.1 2045 | 8.6 1936 | 8.2 1849 | 7.9 1776 | 7.6 1714 | 7.4 1661 | 7.2 1629 | 7.1 1586 |
| 60, 65 2 1/16, 2 1/2 | 22213 | 206 46400 | 10000 | 74.4 16726 | 60.4 13585 | 49.1 11035 | 37.3 8383 | 30.3 6809 | 28.7 6446 | 26.8 6029 | 25.4 5708 | 24.2 5450 | 23.3 5236 | 22.5 5054 | 21.8 4897 | 21.4 4803 | 20.8 4676 |
| | | | 30000 | 53.5 12030 | 43.5 9771 | 35.3 7937 | 26.8 6029 | 21.8 4897 | 20.6 4636 | 19.3 4336 | 18.3 4105 | 17.4 3920 | 16.8 3766 | 16.2 3635 | 15.7 3522 | 15.4 3455 | 15.0 3363 |
| | | | 40000 | 49.1 11035 | 39.9 8963 | 32.4 7280 | 24.6 5531 | 20.0 4492 | 18.9 4253 | 17.7 3978 | 16.8 3766 | 16.0 3596 | 15.4 3455 | 14.8 3335 | 14.4 3231 | 14.1 3169 | 13.7 3085 |
| | | | 60000 | 43.5 9771 | 35.3 7937 | 28.7 6446 | 21.8 4897 | 17.7 3978 | 16.8 3766 | 15.7 3522 | 14.8 3335 | 14.2 3184 | 13.6 3059 | 13.1 2953 | 12.7 2861 | 12.5 2806 | 12.2 2732 |
| | | | 100000 | 37.3 8383 | 30.3 6809 | 24.6 5531 | 18.7 4201 | 15.2 3413 | 14.4 3231 | 13.4 3022 | 12.7 2861 | 12.2 2732 | 11.7 2624 | 11.3 2533 | 10.9 2454 | 10.7 2407 | 10.4 2343 |

⁽¹⁾Speeds referenced here may be higher than speed rating for seals. Please refer to the charts on pages 56 – 58.

⁽²⁾For speeds greater than thermal reference speed, contact your Timken engineer.

Continued on next page.

LOAD RATINGS – *Continued from previous page*

TABLE 27. EC SERIES – ALLOWABLE RADIAL LOAD (kN/LBS.) AT VARIOUS RPM⁽¹⁾

| Shaft Diameter | Bearing No. | C | L ₁₀ Life | Speed ⁽²⁾ | | | | | | | | | | | | |
|--|-------------|---------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------------|---------------------|
| | | | | RPM | | | | | | | | | | | | |
| mm in. | | kN lbs. | | 50 | 100 | 200 | 500 | 1000 | 1200 | 1500 | 1800 | 2100 | 2400 | 2700 ⁽¹⁾ | 3000 ⁽¹⁾ | 3200 ⁽¹⁾ |
| 70, 75 2 1/16, 2 3/4, 2 15/16, 3 | 22215 | 222 49900 | 10000 | 80.0 17987 | 65.0 14610 | 52.8 11867 | 40.1 9015 | 32.6 7322 | 30.8 6933 | 28.8 6484 | 27.3 6139 | 26.1 5861 | 25.0 5631 | 24.2 5436 | 23.4 5266 | 23.0 5166 |
| | | | 30000 | 57.5 12937 | 46.7 10508 | 38.0 8535 | 28.8 6484 | 23.4 5266 | 22.2 4986 | 20.7 4663 | 19.6 4415 | 18.8 4216 | 18.0 4050 | 17.4 3909 | 16.8 3788 | 16.5 3715 |
| | | | 40000 | 52.8 11867 | 42.9 9639 | 34.8 7829 | 26.5 5948 | 21.5 4831 | 20.3 4574 | 19.0 4278 | 18.0 4050 | 17.2 3867 | 16.5 3715 | 16.0 3586 | 15.5 3475 | 15.2 3408 |
| | | | 60000 | 46.7 10508 | 38.0 8535 | 30.8 6933 | 23.4 5266 | 19.0 4278 | 18.0 4050 | 16.8 3788 | 16.0 3586 | 15.2 3424 | 14.6 3290 | 14.1 3175 | 13.7 3077 | 13.4 3018 |
| | | | 100000 | 40.1 9015 | 32.6 7322 | 26.5 5948 | 20.1 4518 | 16.3 3670 | 15.5 3475 | 14.5 3250 | 13.7 3077 | 13.1 2938 | 12.6 2822 | 12.1 2724 | 11.7 2639 | 11.5 2589 |
| | | | | | | 50 | 100 | 200 | 500 | 1000 | 1200 | 1500 | 1800 | 2100 ⁽¹⁾ | 2400 ⁽¹⁾ | 2700 ⁽¹⁾ |
| 80, 85, 90 3 3/16, 3 3/4, 3 7/16, 3 1/2 | 22218 | 355 79700 | 10000 | 127.8 28729 | 103.8 23335 | 84.3 18954 | 64.0 14399 | 52.0 11695 | 49.3 11073 | 46.1 10356 | 43.6 9805 | 41.6 9362 | 40.0 8994 | 38.6 8682 | | |
| | | | 30000 | 91.9 20663 | 74.7 16783 | 60.6 13632 | 46.1 10356 | 37.4 8412 | 35.4 7964 | 33.1 7448 | 31.4 7052 | 29.9 6733 | 28.8 6469 | 27.8 6244 | | |
| | | | 40000 | 84.3 18954 | 68.5 15396 | 55.6 12505 | 42.3 9500 | 34.3 7716 | 32.5 7305 | 30.4 6832 | 28.8 6469 | 27.5 6176 | 26.4 5934 | 25.5 5728 | | |
| | | | 60000 | 74.7 16783 | 60.6 13632 | 49.3 11073 | 37.4 8412 | 30.4 6832 | 28.8 6469 | 26.9 6050 | 25.5 5728 | 24.3 5469 | 23.4 5254 | 22.6 5072 | | |
| | | | 100000 | 64.0 14399 | 52.0 11695 | 42.3 9500 | 32.1 7216 | 26.1 5862 | 24.7 5550 | 23.1 5190 | 21.9 4914 | 20.9 4692 | 20.1 4508 | 19.4 4351 | | |
| | | | | | | 50 | 100 | 200 | 500 | 1000 | 1200 | 1500 | 1800 ⁽¹⁾ | 2100 ⁽¹⁾ | 2400 ⁽¹⁾ | 2700 ⁽¹⁾ |
| 100 3 11/16, 3 3/4, 3 15/16, 4 | 22220 | 435 97700 | 10000 | 156.7 35218 | 127.2 28606 | 103.4 23235 | 78.5 17651 | 63.8 14337 | 60.4 13574 | 56.5 12695 | 53.5 12019 | 51.0 11476 | 49.0 11025 | 47.3 10642 | | |
| | | | 30000 | 112.7 25329 | 91.5 20574 | 74.3 16711 | 56.5 12695 | 45.9 10311 | 43.4 9762 | 40.6 9130 | 38.5 8644 | 36.7 8254 | 35.3 7930 | 34.0 7654 | | |
| | | | 40000 | 103.4 23235 | 84.0 18873 | 68.2 15329 | 51.8 11645 | 42.1 9459 | 39.8 8955 | 37.3 8375 | 35.3 7930 | 33.7 7571 | 32.4 7274 | 31.2 7021 | | |
| | | | 60000 | 91.5 20574 | 74.3 16711 | 60.4 13574 | 45.9 10311 | 37.3 8375 | 35.3 7930 | 33.0 7416 | 31.2 7021 | 29.8 6704 | 28.7 6441 | 27.7 6217 | | |
| | | | 100000 | 78.5 17651 | 63.8 14337 | 51.8 11645 | 39.3 8846 | 32.0 7185 | 30.3 6803 | 28.3 6362 | 26.8 6024 | 25.6 5752 | 24.6 5526 | 23.7 5334 | | |
| | | | | | | 50 | 100 | 200 | 500 | 1000 | 1200 | 1500 ⁽¹⁾ | 1800 ⁽¹⁾ | 2100 ⁽¹⁾ | 2400 ⁽¹⁾ | |
| 110, 115 4 7/16, 4 1/2 | 22222 | 555 125000 | 10000 | 200.4 45058 | 162.8 36599 | 132.2 29727 | 100.5 22583 | 81.6 18343 | 77.3 17367 | 72.2 16242 | 68.4 15377 | 65.3 14683 | 62.7 14106 | | | |
| | | | 30000 | 144.2 32407 | 117.1 26323 | 95.1 21381 | 72.2 16242 | 58.7 13193 | 55.6 12490 | 52.0 11682 | 49.2 11060 | 47.0 10560 | 45.1 10145 | | | |
| | | | 40000 | 132.2 29727 | 107.4 24146 | 87.2 19613 | 66.3 14899 | 53.8 12102 | 51.0 11458 | 47.7 10716 | 45.1 10145 | 43.1 9687 | 41.4 9306 | | | |
| | | | 60000 | 117.1 26323 | 95.1 21381 | 77.3 17367 | 58.7 13193 | 47.7 10716 | 45.1 10145 | 42.2 9488 | 40.0 8983 | 38.2 8577 | 36.7 8241 | | | |
| | | | 100000 | 100.5 22583 | 81.6 18343 | 66.3 14899 | 50.3 11318 | 40.9 9193 | 38.7 8704 | 36.2 8140 | 34.3 7707 | 32.7 7359 | 31.4 7070 | | | |
| | | | | | | 50 | 100 | 200 | 500 | 1000 | 1200 ⁽¹⁾ | 1500 ⁽¹⁾ | 1800 ⁽¹⁾ | 2100 ⁽¹⁾ | | |
| 125, 130 4 15/16, 5 | 22226 | 757 170000 | 10000 | 272.6 61279 | 221.4 49774 | 179.8 40429 | 136.6 30712 | 111.0 24946 | 105.1 23618 | 98.3 22089 | 93.0 20913 | 88.8 19968 | | | | |
| | | | 30000 | 196.1 44074 | 159.2 35799 | 129.3 29078 | 98.3 22089 | 79.8 17942 | 75.6 16987 | 70.7 15887 | 66.9 15041 | 63.9 14362 | | | | |
| | | | 40000 | 179.8 40429 | 146.1 32839 | 118.6 26673 | 90.1 20263 | 73.2 16458 | 69.3 15582 | 64.8 14573 | 61.4 13798 | 58.6 13174 | | | | |
| | | | 60000 | 159.2 35799 | 129.3 29078 | 105.1 23618 | 79.8 17942 | 64.8 14573 | 61.4 13798 | 57.4 12904 | 54.3 12217 | 51.9 11665 | | | | |
| | | | 100000 | 136.6 30712 | 111.0 24946 | 90.1 20263 | 68.5 15393 | 55.6 12503 | 52.7 11837 | 49.2 11071 | 46.6 10482 | 44.5 10008 | | | | |
| | | | | | | 50 | 100 | 200 | 500 | 1000 | 1200 ⁽¹⁾ | 1500 ⁽¹⁾ | 1800 ⁽¹⁾ | 2100 ⁽¹⁾ | | |

⁽¹⁾Speeds referenced here may be higher than speed rating for seals. Please refer to the charts on pages 56 – 58.
⁽²⁾For speeds greater than thermal reference speed, contact your Timken engineer.

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| Shaft Diameter | Bearing No. | C | L ₁₀ Life | Speed ⁽²⁾ | | | | | |
|---|-------------|-----------------------|----------------------|------------------------|------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | | | RPM | | | | | |
| mm in. | | kN lbs. | | 50 | 100 | 200 | 500 | 1000 ⁽¹⁾ | 1200 ⁽¹⁾ |
| 140, 150 5 7/16, 5 1/2, 5 15/16, 6 | 23230 | 1270 286000 | 10000 | 458.6 103094 | 372.5 83738 | 302.6 68016 | 229.8 51669 | 186.7 41968 | 176.8 39735 |
| | | | 30000 | 329.8 74147 | 267.9 60226 | 217.6 48919 | 165.3 37162 | 134.3 30185 | 127.1 28578 |
| | | | 40000 | 302.6 68016 | 245.8 55247 | 199.6 44874 | 151.6 34089 | 123.2 27689 | 116.6 26215 |
| | | | 60000 | 267.9 60226 | 217.6 48919 | 176.8 39735 | 134.3 30185 | 109.1 24518 | 103.3 23213 |
| | | | 100000 | 229.8 51669 | 186.7 41968 | 151.6 34089 | 115.2 25896 | 93.6 21034 | 88.6 19914 |
| | | | | | | 50 | 100 | 200 | 500 |
| 170, 180 6 7/16, 6 1/2, 6 15/16, 7 | 23234 | 1660 373000 | 10000 | 598.1 134454 | 485.8 109211 | 394.6 88707 | 299.8 67387 | 243.5 54735 | |
| | | | 30000 | 430.2 96703 | 349.4 78547 | 283.8 63800 | 215.6 48466 | 175.1 39367 | |
| | | | 40000 | 394.6 88707 | 320.5 72052 | 260.3 58525 | 197.8 44459 | 160.6 36112 | |
| | | | 60000 | 349.4 78547 | 283.8 63800 | 230.5 51822 | 175.1 39367 | 142.2 31976 | |
| | | | 100000 | 299.8 67387 | 243.5 54735 | 197.8 44459 | 150.2 33773 | 122.0 27433 | |
| | | | | | | 50 | 100 | 200 | 500 |

⁽¹⁾Speeds referenced here may be higher than speed rating for seals. Please refer to the charts on pages 56 – 58.

⁽²⁾For speeds greater than thermal reference speed, contact your Timken engineer.

LOAD RATINGS – continued

TABLE 28. TA - ALLOWABLE RADIAL LOAD (kN/LBS.) AT VARIOUS RPM⁽¹⁾

| Shaft Diameter | Bearing No. | C | L ₁₀ Life | Speed ⁽²⁾ | | | | | | | | | | | | | | | |
|----------------------|-------------|--------------|----------------------|----------------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------------|---------------------|
| | | | | RPM | | | | | | | | | | | | | | | |
| mm in. | | kN lbs. | | 50 | 100 | 200 | 500 | 1000 | 1200 | 1500 | 1800 | 2100 | 2400 | 2700 | 3000 | 3200 | 3500 | | |
| 40 1 7/16, 1 1/2 | 22209 | 109 24500 | 10000 | 39.3 8831 | 31.9 7173 | 25.9 5827 | 19.7 4426 | 16.0 3595 | 15.1 3404 | 14.2 3183 | 13.4 3014 | 12.8 2878 | 12.3 2765 | 11.9 2669 | 11.5 2586 | 11.3 2536 | 11.0 2469 | | |
| | | | 30000 | 28.3 6352 | 22.9 5159 | 18.6 4191 | 14.2 3183 | 11.5 2586 | 10.9 2448 | 10.2 2290 | 9.6 2168 | 9.2 2070 | 8.8 1988 | 8.5 1919 | 8.3 1860 | 8.1 1824 | 7.9 1776 | | |
| | | | 40000 | 25.9 5827 | 21.1 4733 | 17.1 3844 | 13.0 2920 | 10.6 2372 | 10.0 2246 | 9.3 2100 | 8.8 1988 | 8.4 1899 | 8.1 1824 | 7.8 1761 | 7.6 1706 | 7.4 1673 | 7.2 1629 | | |
| | | | 60000 | 22.9 5159 | 18.6 4191 | 15.1 3404 | 11.5 2586 | 9.3 2100 | 8.8 1988 | 8.3 1860 | 7.8 1761 | 7.5 1681 | 7.2 1615 | 6.9 1559 | 6.7 1511 | 6.6 1482 | 6.4 1442 | | |
| | | | 100000 | 19.7 4426 | 16.0 3595 | 13.0 2920 | 9.9 2218 | 8.0 1802 | 7.6 1706 | 7.1 1595 | 6.7 1511 | 6.4 1442 | 6.2 1386 | 6.0 1338 | 5.8 1296 | 5.7 1271 | 5.5 1237 | | |
| | | | | | | | 50 | 100 | 200 | 500 | 1000 | 1200 | 1500 | 1800 | 2100 | 2400 | 2700 | 3000 | 3200 |
| 45 1 11/16, 1 3/4 | 22210 | 117 26300 | 10000 | 42.2 9480 | 34.3 7700 | 27.8 6255 | 21.1 4751 | 17.2 3859 | 16.3 3654 | 15.2 3417 | 14.4 3235 | 13.7 3089 | 13.2 2968 | 12.7 2865 | 12.3 2776 | 12.1 2723 | 11.8 2650 | | |
| | | | 30000 | 30.3 6818 | 24.6 5538 | 20.0 4498 | 15.2 3417 | 12.3 2776 | 11.7 2628 | 10.9 2458 | 10.4 2327 | 9.9 2222 | 9.5 2135 | 9.2 2060 | 8.9 1996 | 8.7 1958 | 8.5 1906 | | |
| | | | 40000 | 27.8 6255 | 22.6 5080 | 18.4 4127 | 13.9 3135 | 11.3 2546 | 10.7 2411 | 10.0 2255 | 9.5 2135 | 9.1 2038 | 8.7 1958 | 8.4 1890 | 8.1 1831 | 8.0 1796 | 7.8 1749 | | |
| | | | 60000 | 24.6 5538 | 20.0 4498 | 16.3 3654 | 12.3 2776 | 10.0 2255 | 9.5 2135 | 8.9 1996 | 8.4 1890 | 8.0 1805 | 7.7 1734 | 7.4 1674 | 7.2 1622 | 7.1 1590 | 6.9 1548 | | |
| | | | 100000 | 21.1 4751 | 17.2 3859 | 13.9 3135 | 10.6 2381 | 8.6 1934 | 8.1 1831 | 7.6 1713 | 7.2 1622 | 6.9 1548 | 6.6 1487 | 6.4 1436 | 6.2 1391 | 6.1 1364 | 5.9 1328 | | |
| | | | | | | | 50 | 100 | 200 | 500 | 1000 | 1200 | 1500 | 1800 | 2100 | 2400 | 2700 | 3000 | 3200 |
| 50 1 15/16, 2 | 22211 | 140 31400 | 10000 | 50.3 11319 | 40.9 9194 | 33.2 7468 | 25.2 5673 | 20.5 4608 | 19.4 4362 | 18.1 4080 | 17.2 3863 | 16.4 3688 | 15.8 3543 | 15.2 3420 | 14.7 3314 | 14.5 3250 | 14.1 3164 | | |
| | | | 30000 | 36.2 8141 | 29.4 6612 | 23.9 5371 | 18.1 4080 | 14.7 3314 | 14.0 3138 | 13.1 2934 | 12.4 2778 | 11.8 2653 | 11.3 2549 | 10.9 2460 | 10.6 2383 | 10.4 2338 | 10.1 2276 | | |
| | | | 40000 | 33.2 7468 | 27.0 6066 | 21.9 4927 | 16.6 3743 | 13.5 3040 | 12.8 2878 | 12.0 2692 | 11.3 2549 | 10.8 2433 | 10.4 2338 | 10.0 2257 | 9.7 2186 | 9.5 2144 | 9.3 2088 | | |
| | | | 60000 | 29.4 6612 | 23.9 5371 | 19.4 4362 | 14.7 3314 | 12.0 2692 | 11.3 2549 | 10.6 2383 | 10.0 2257 | 9.6 2155 | 9.2 2070 | 8.9 1998 | 8.6 1936 | 8.4 1899 | 8.2 1849 | | |
| | | | 100000 | 25.2 5673 | 20.5 4608 | 16.6 3743 | 12.6 2843 | 10.3 2309 | 9.7 2186 | 9.1 2045 | 8.6 1936 | 8.2 1849 | 7.9 1776 | 7.6 1714 | 7.4 1661 | 7.2 1629 | 7.1 1586 | | |
| | | | | | | | 50 | 100 | 200 | 500 | 1000 | 1200 | 1500 | 1800 | 2100 | 2400 | 2700 | 3000 | 3200 ⁽¹⁾ |
| 55 – | 22212 | 169 38100 | 10000 | 61.1 13734 | 49.6 11155 | 40.3 9061 | 30.6 6883 | 24.9 5591 | 23.5 5293 | 22.0 4951 | 20.8 4687 | 19.9 4475 | 19.1 4300 | 18.5 4150 | 17.9 4021 | 17.5 3944 | 17.1 3839 | | |
| | | | 30000 | 43.9 9878 | 35.7 8023 | 29.0 6517 | 22.0 4951 | 17.9 4021 | 16.9 3807 | 15.8 3561 | 15.0 3371 | 14.3 3219 | 13.8 3092 | 13.3 2985 | 12.9 2892 | 12.6 2837 | 12.3 2761 | | |
| | | | 40000 | 40.3 9061 | 32.7 7360 | 26.6 5978 | 20.2 4541 | 16.4 3689 | 15.5 3492 | 14.5 3266 | 13.8 3092 | 13.1 2953 | 12.6 2837 | 12.2 2738 | 11.8 2653 | 11.6 2602 | 11.3 2533 | | |
| | | | 60000 | 35.7 8023 | 29.0 6517 | 23.5 5293 | 17.9 4021 | 14.5 3266 | 13.8 3092 | 12.9 2892 | 12.2 2738 | 11.6 2614 | 11.2 2512 | 10.8 2425 | 10.4 2349 | 10.2 2304 | 10.0 2243 | | |
| | | | 100000 | 30.6 6883 | 24.9 5591 | 20.2 4541 | 15.3 3450 | 12.5 2802 | 11.8 2653 | 11.0 2481 | 10.4 2349 | 10.0 2243 | 9.6 2155 | 9.3 2080 | 9.0 2015 | 8.8 1977 | 8.6 1924 | | |
| | | | | | | | 50 | 100 | 200 | 500 | 1000 | 1200 | 1500 | 1800 | 2100 | 2400 | 2700 | 3000 ⁽¹⁾ | 3200 ⁽¹⁾ |
| 60 2 3/16, 2 1/4 | 22213 | 206 46400 | 10000 | 74.4 16726 | 60.4 13585 | 49.1 11035 | 37.3 8383 | 30.3 6809 | 28.7 6446 | 26.8 6029 | 25.4 5708 | 24.2 5450 | 23.3 5236 | 22.5 5054 | 21.8 4897 | 21.4 4803 | 20.8 4676 | | |
| | | | 30000 | 53.5 12030 | 43.5 9771 | 35.3 7937 | 26.8 6029 | 21.8 4897 | 20.6 4636 | 19.3 4336 | 18.3 4105 | 17.4 3920 | 16.8 3766 | 16.2 3635 | 15.7 3522 | 15.4 3455 | 15.0 3363 | | |
| | | | 40000 | 49.1 11035 | 39.9 8963 | 32.4 7280 | 24.6 5531 | 20.0 4492 | 18.9 4253 | 17.7 3978 | 16.8 3766 | 16.0 3596 | 15.4 3455 | 14.8 3335 | 14.4 3231 | 14.1 3169 | 13.7 3085 | | |
| | | | 60000 | 43.5 9771 | 35.3 7937 | 28.7 6446 | 21.8 4897 | 17.7 3978 | 16.8 3766 | 15.7 3522 | 14.8 3335 | 14.2 3184 | 13.6 3059 | 13.1 2953 | 12.7 2861 | 12.5 2806 | 12.2 2732 | | |
| | | | 100000 | 37.3 8383 | 30.3 6809 | 24.6 5531 | 18.7 4201 | 15.2 3413 | 14.4 3231 | 13.4 3022 | 12.7 2861 | 12.2 2732 | 11.7 2624 | 11.3 2533 | 10.9 2454 | 10.7 2407 | 10.4 2343 | | |
| | | | | | | | 50 | 100 | 200 | 500 | 1000 | 1200 | 1500 | 1800 | 2100 | 2400 | 2700 | 3000 ⁽¹⁾ | 3200 ⁽¹⁾ |

⁽¹⁾Speeds referenced here may be higher than speed rating for seals. Please refer to the charts on pages 56 – 58.

Continued on next page.

⁽²⁾For speeds greater than thermal reference speed, contact your Timken engineer.

Continued from previous page.

| Shaft Diameter | Bearing No. | C | L ₁₀ Life | Speed ⁽²⁾ | | | | | | | | | | | | |
|----------------------|-------------|--------------|----------------------|----------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|---------------------|---------------------|---------------------|
| | | | | RPM | | | | | | | | | | | | |
| mm in. | | kN lbs. | | 50 | 100 | 200 | 500 | 1000 | 1200 | 1500 | 1800 | 2100 | 2400 | 2700 ⁽¹⁾ | 3000 ⁽¹⁾ | 3200 ⁽¹⁾ |
| 65 2 7/16, 2 1/2 | 22215 | 222 49900 | 10000 | 80.0 17987 | 65.0 14610 | 52.8 11867 | 40.1 9015 | 32.6 7322 | 30.8 6933 | 28.8 6484 | 27.3 6139 | 26.1 5861 | 25.0 5631 | 24.2 5436 | 23.4 5266 | 23.0 5166 |
| | | | 30000 | 57.5 12937 | 46.7 10508 | 38.0 8535 | 28.8 6484 | 23.4 5266 | 22.2 4986 | 20.7 4663 | 19.6 4415 | 18.8 4216 | 18.0 4050 | 17.4 3909 | 16.8 3788 | 16.5 3715 |
| | | | 40000 | 52.8 11867 | 42.9 9639 | 34.8 7829 | 26.5 5948 | 21.5 4831 | 20.3 4574 | 19.0 4278 | 18.0 4050 | 17.2 3867 | 16.5 3715 | 16.0 3586 | 15.5 3475 | 15.2 3408 |
| | | | 60000 | 46.7 10508 | 38.0 8535 | 30.8 6933 | 23.4 5266 | 19.0 4278 | 18.0 4050 | 16.8 3788 | 16.0 3586 | 15.2 3424 | 14.6 3290 | 14.1 3175 | 13.7 3077 | 13.4 3018 |
| | | | 100000 | 40.1 9015 | 32.6 7322 | 26.5 5948 | 20.1 4518 | 16.3 3670 | 15.5 3475 | 14.5 3250 | 13.7 3077 | 13.1 2938 | 12.6 2822 | 12.1 2724 | 11.7 2639 | 11.5 2589 |
| | | | | | | 50 | 100 | 200 | 500 | 1000 | 1200 | 1500 | 1800 | 2100 | 2400 ⁽¹⁾ | 2700 ⁽¹⁾ |
| 70 2 11/16, 2 3/4 | 22216 | 254 57200 | 10000 | 91.7 20619 | 74.5 16748 | 60.5 13603 | 46.0 10334 | 37.3 8394 | 35.4 7947 | 33.1 7432 | 31.3 7037 | 29.9 6719 | 28.7 6455 | 27.7 6231 | 26.9 6037 | |
| | | | 30000 | 66.0 14829 | 53.6 12045 | 43.5 9784 | 33.1 7432 | 26.9 6037 | 25.4 5716 | 23.8 5346 | 22.5 5061 | 21.5 4832 | 20.7 4643 | 19.9 4481 | 19.3 4342 | |
| | | | 40000 | 60.5 13603 | 49.1 11049 | 39.9 8975 | 30.3 6818 | 24.6 5538 | 23.3 5243 | 21.8 4904 | 20.7 4643 | 19.7 4433 | 18.9 4259 | 18.3 4111 | 17.7 3983 | |
| | | | 60000 | 53.6 12045 | 43.5 9784 | 35.4 7947 | 26.9 6037 | 21.8 4904 | 20.7 4643 | 19.3 4342 | 18.3 4111 | 17.5 3925 | 16.8 3771 | 16.2 3640 | 15.7 3527 | |
| | | | 100000 | 46.0 10334 | 37.3 8394 | 30.3 6818 | 23.0 5179 | 18.7 4207 | 17.7 3983 | 16.6 3725 | 15.7 3527 | 15.0 3367 | 14.4 3235 | 13.9 3123 | 13.5 3026 | |
| | | | | | | 50 | 100 | 200 | 500 | 1000 | 1200 | 1500 | 1800 | 2100 ⁽¹⁾ | 2400 ⁽¹⁾ | 2700 ⁽¹⁾ |
| 75 2 15/16, 3 | 22217 | 297 66900 | 10000 | 107.3 24115 | 87.1 19588 | 70.8 15910 | 53.8 12086 | 43.7 9817 | 41.3 9295 | 38.7 8693 | 36.6 8230 | 35.0 7858 | 33.6 7550 | 32.4 7287 | | |
| | | | 30000 | 77.1 17344 | 62.7 14088 | 50.9 11443 | 38.7 8693 | 31.4 7061 | 29.7 6685 | 27.8 6252 | 26.3 5919 | 25.1 5652 | 24.2 5430 | 23.3 5241 | | |
| | | | 40000 | 70.8 15910 | 57.5 12923 | 46.7 10497 | 35.5 7974 | 28.8 6477 | 27.3 6132 | 25.5 5735 | 24.2 5430 | 23.1 5184 | 22.2 4981 | 21.4 4808 | | |
| | | | 60000 | 62.7 14088 | 50.9 11443 | 41.3 9295 | 31.4 7061 | 25.5 5735 | 24.2 5430 | 22.6 5078 | 21.4 4808 | 20.4 4591 | 19.6 4410 | 18.9 4257 | | |
| | | | 100000 | 53.8 12086 | 43.7 9817 | 35.5 7974 | 26.9 6057 | 21.9 4920 | 20.7 4658 | 19.4 4357 | 18.3 4125 | 17.5 3938 | 16.8 3784 | 16.2 3652 | | |
| | | | | | | 50 | 100 | 200 | 500 | 1000 | 1200 | 1500 | 1800 | 2100 ⁽¹⁾ | 2400 ⁽¹⁾ | 2700 ⁽¹⁾ |
| 80 3 3/16, 3 1/4 | 22218 | 355 79700 | 10000 | 127.8 28729 | 103.8 23335 | 84.3 18954 | 64.0 14399 | 52.0 11695 | 49.3 11073 | 46.1 10356 | 43.6 9805 | 41.6 9362 | 40.0 8994 | 38.6 8682 | | |
| | | | 30000 | 91.9 20663 | 74.7 16783 | 60.6 13632 | 46.1 10356 | 37.4 8412 | 35.4 7964 | 33.1 7448 | 31.4 7052 | 29.9 6733 | 28.8 6469 | 27.8 6244 | | |
| | | | 40000 | 84.3 18954 | 68.5 15396 | 55.6 12505 | 42.3 9500 | 34.3 7716 | 32.5 7305 | 30.4 6832 | 28.8 6469 | 27.5 6176 | 26.4 5934 | 25.5 5728 | | |
| | | | 60000 | 74.7 16783 | 60.6 13632 | 49.3 11073 | 37.4 8412 | 30.4 6832 | 28.8 6469 | 26.9 6050 | 25.5 5728 | 24.3 5469 | 23.4 5254 | 22.6 5072 | | |
| | | | 100000 | 64.0 14399 | 52.0 11695 | 42.3 9500 | 32.1 7216 | 26.1 5862 | 24.7 5550 | 23.1 5190 | 21.9 4914 | 20.9 4692 | 20.1 4508 | 19.4 4351 | | |
| | | | | | | 50 | 100 | 200 | 500 | 1000 | 1200 | 1500 | 1800 | 2100 ⁽¹⁾ | 2400 ⁽¹⁾ | 2700 ⁽¹⁾ |
| 85 — | 22219 | 385 86600 | 10000 | 138.9 31216 | 112.8 25356 | 91.6 20595 | 69.6 15645 | 56.5 12708 | 53.5 12032 | 50.1 11252 | 47.4 10654 | 45.2 10172 | 43.5 9773 | 42.0 9433 | | |
| | | | 30000 | 99.9 22452 | 81.1 18236 | 65.9 14813 | 50.1 11252 | 40.7 9140 | 38.5 8653 | 36.0 8093 | 34.1 7662 | 32.5 7316 | 31.3 7029 | 30.2 6785 | | |
| | | | 40000 | 91.6 20595 | 74.4 16729 | 60.4 13588 | 45.9 10322 | 37.3 8384 | 35.3 7938 | 33.0 7424 | 31.3 7029 | 29.9 6711 | 28.7 6448 | 27.7 6224 | | |
| | | | 60000 | 81.1 18236 | 65.9 14813 | 53.5 12032 | 40.7 9140 | 33.0 7424 | 31.3 7029 | 29.2 6574 | 27.7 6224 | 26.4 5942 | 25.4 5709 | 24.5 5511 | | |
| | | | 100000 | 69.6 15645 | 56.5 12708 | 45.9 10322 | 34.9 7841 | 28.3 6369 | 26.8 6030 | 25.1 5640 | 23.7 5339 | 22.7 5098 | 21.8 4898 | 21.0 4728 | | |
| | | | | | | 50 | 100 | 200 | 500 | 1000 | 1200 | 1500 | 1800 | 2100 ⁽¹⁾ | 2400 ⁽¹⁾ | 2700 ⁽¹⁾ |

⁽¹⁾Speeds referenced here may be higher than speed rating for seals. Please refer to the charts on pages 56 – 58.

⁽²⁾For speeds greater than thermal reference speed, contact your Timken engineer.

Continued on next page.

LOAD RATINGS – continued

TABLE 28. TA - ALLOWABLE RADIAL LOAD (kN/LBS.) AT VARIOUS RPM⁽¹⁾

| Shaft Diameter | Bearing No. | C | L ₁₀ Life | Speed ⁽²⁾ | | | | | | | | | | | | | | | | |
|----------------------|-------------|---------------|----------------------|----------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------|--------------|--------------|--------------|
| | | | | RPM | | | | | | | | | | | | | | | | |
| mm in. | | kN lbs. | | 50 | 100 | 200 | 500 | 1000 | 1200 | 1500 | 1800 ⁽¹⁾ | 2100 ⁽¹⁾ | 2400 ⁽¹⁾ | 2700 ⁽¹⁾ | | | | | | |
| 90 3 7/16, 3 1/2 | 22220 | 435 97700 | 10000 | 156.7 35218 | 127.2 28606 | 103.4 23235 | 78.5 17651 | 63.8 14337 | 60.4 13574 | 56.5 12695 | 53.5 12019 | 51.0 11476 | 49.0 11025 | 47.3 10642 | | | | | | |
| | | | 30000 | 112.7 25329 | 91.5 20574 | 74.3 16711 | 56.5 12695 | 45.9 10311 | 43.4 9762 | 40.6 9130 | 38.5 8644 | 36.7 8254 | 35.3 7930 | 34.0 7654 | | | | | | |
| | | | 40000 | 103.4 23235 | 84.0 18873 | 68.2 15329 | 51.8 11645 | 42.1 9459 | 39.8 8955 | 37.3 8375 | 35.3 7930 | 33.7 7571 | 32.4 7274 | 31.2 7021 | 30.3 6803 | 28.3 6362 | 26.8 6024 | 25.6 5752 | 24.6 5526 | 23.7 5334 |
| | | | 60000 | 91.5 20574 | 74.3 16711 | 60.4 13574 | 45.9 10311 | 37.3 8375 | 35.3 7930 | 33.0 7416 | 31.2 7021 | 29.8 6704 | 28.7 6441 | 27.7 6217 | | | | | | |
| | | | 100000 | 78.5 17651 | 63.8 14337 | 51.8 11645 | 39.3 8846 | 32.0 7185 | 30.3 6803 | 28.3 6362 | 26.8 6024 | 25.6 5752 | 24.6 5526 | 23.7 5334 | | | | | | |
| | | | | | | | 50 | 100 | 200 | 500 | 1000 | 1200 | 1500 ⁽¹⁾ | 1800 ⁽¹⁾ | 2100 ⁽¹⁾ | 2400 ⁽¹⁾ | | | | |
| 100 3 1/16, 4 | 22222 | 555 125000 | 10000 | 200.4 45058 | 162.8 36599 | 132.2 29727 | 100.5 22583 | 81.6 18343 | 77.3 17367 | 72.2 16242 | 68.4 15377 | 65.3 14683 | 62.7 14106 | | | | | | | |
| | | | 30000 | 144.2 32407 | 117.1 26323 | 95.1 21381 | 72.2 16242 | 58.7 13193 | 55.6 12490 | 52.0 11682 | 49.2 11060 | 47.0 10560 | 45.1 10145 | 44.1 9906 | | | | | | |
| | | | 40000 | 132.2 29727 | 107.4 24146 | 87.2 19613 | 66.3 14899 | 53.8 12102 | 51.0 11458 | 47.7 10716 | 45.1 10145 | 43.1 9687 | 41.4 9306 | | | | | | | |
| | | | 60000 | 117.1 26323 | 95.1 21381 | 77.3 17367 | 58.7 13193 | 47.7 10716 | 45.1 10145 | 42.2 9488 | 40.0 8983 | 38.2 8577 | 36.7 8241 | | | | | | | |
| | | | 100000 | 100.5 22583 | 81.6 18343 | 66.3 14899 | 50.3 11318 | 40.9 9193 | 38.7 8704 | 36.2 8140 | 34.3 7707 | 32.7 7359 | 31.4 7070 | | | | | | | |
| | | | | | | | 50 | 100 | 200 | 500 | 1000 | 1200 | 1500 ⁽¹⁾ | 1800 ⁽¹⁾ | 2100 ⁽¹⁾ | 2400 ⁽¹⁾ | | | | |
| 110 4 3/16, 4 1/4 | 22224 | 647 145000 | 10000 | 232.5 52268 | 188.8 42455 | 153.4 34484 | 116.5 26196 | 94.6 21278 | 89.6 20145 | 83.8 18841 | 79.3 17838 | 75.8 17032 | 72.8 16363 | | | | | | | |
| | | | 30000 | 167.2 37592 | 135.8 30534 | 110.3 24802 | 83.8 18841 | 68.1 15303 | 64.5 14489 | 60.3 13551 | 57.1 12829 | 54.5 12250 | 52.4 11769 | | | | | | | |
| | | | 40000 | 153.4 34484 | 124.6 28010 | 101.2 22751 | 76.9 17283 | 62.4 14038 | 59.1 13291 | 55.3 12430 | 52.4 11769 | 50.0 11237 | 48.0 10796 | | | | | | | |
| | | | 60000 | 135.8 30534 | 110.3 24802 | 89.6 20145 | 68.1 15303 | 55.3 12430 | 52.4 11769 | 49.0 11007 | 46.4 10421 | 44.3 9950 | 42.5 9559 | | | | | | | |
| | | | 100000 | 116.5 26196 | 94.6 21278 | 76.9 17283 | 58.4 13129 | 47.4 10664 | 44.9 10097 | 42.0 9443 | 39.8 8940 | 38.0 8536 | 36.5 8201 | | | | | | | |
| | | | | | | | 50 | 100 | 200 | 500 | 1000 | 1200 ⁽¹⁾ | 1500 ⁽¹⁾ | 1800 ⁽¹⁾ | 2100 ⁽¹⁾ | | | | | |
| 115 4 7/16, 4 1/2 | 22226 | 757 170000 | 10000 | 272.6 61279 | 221.4 49774 | 179.8 40429 | 136.6 30712 | 111.0 24946 | 105.1 23618 | 98.3 22089 | 93.0 20913 | 88.8 19968 | | | | | | | | |
| | | | 30000 | 196.1 44074 | 159.2 35799 | 129.3 29078 | 98.3 22089 | 79.8 17942 | 75.6 16987 | 70.7 15887 | 66.9 15041 | 63.9 14362 | | | | | | | | |
| | | | 40000 | 179.8 40429 | 146.1 32839 | 118.6 26673 | 90.1 20263 | 73.2 16458 | 69.3 15582 | 64.8 14573 | 61.4 14573 | 58.6 13798 | 56.6 13174 | | | | | | | |
| | | | 60000 | 159.2 35799 | 129.3 29078 | 105.1 23618 | 79.8 17942 | 64.8 14573 | 61.4 13798 | 57.4 12904 | 54.3 12217 | 51.9 11665 | | | | | | | | |
| | | | 100000 | 136.6 30712 | 111.0 24946 | 90.1 20263 | 68.5 15393 | 55.6 12503 | 52.7 11837 | 49.2 11071 | 46.6 10482 | 44.5 10008 | | | | | | | | |
| | | | | | | | 50 | 100 | 200 | 500 | 1000 ⁽¹⁾ | 1200 ⁽¹⁾ | 1500 ⁽¹⁾ | 1800 ⁽¹⁾ | | | | | | |
| 125 4 1/16, 5 | 22228 | 863 194000 | 10000 | 311.1 69931 | 252.7 56801 | 205.2 46137 | 155.9 35048 | 126.6 28468 | 119.9 26953 | 112.1 25208 | 106.2 23866 | | | | | | | | | |
| | | | 30000 | 223.7 50296 | 181.7 40853 | 147.6 33183 | 112.1 25208 | 91.1 20475 | 86.2 19385 | 80.6 18130 | 76.4 17165 | | | | | | | | | |
| | | | 40000 | 205.2 46137 | 166.7 37475 | 135.4 30439 | 102.9 23123 | 83.5 18782 | 79.1 17782 | 74.0 16631 | 70.0 15746 | | | | | | | | | |
| | | | 60000 | 181.7 40853 | 147.6 33183 | 119.9 26953 | 91.1 20475 | 74.0 16631 | 70.0 15746 | 65.5 14726 | 62.0 13942 | | | | | | | | | |
| | | | 100000 | 155.9 35048 | 126.6 28468 | 102.9 23123 | 78.1 17566 | 63.5 14268 | 60.1 13508 | 56.2 12634 | 53.2 11961 | | | | | | | | | |
| | | | | | | | 50 | 100 | 200 | 500 | 1000 ⁽¹⁾ | 1200 ⁽¹⁾ | 1500 ⁽¹⁾ | 1800 ⁽¹⁾ | | | | | | |

⁽¹⁾Speeds referenced here may be higher than speed rating for seals. Please refer to the charts on pages 56 – 58.

⁽²⁾For speeds greater than thermal reference speed, contact your Timken engineer.

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| Shaft Diameter | Bearing No. | C | L ₁₀ Life | Speed ⁽²⁾ | | | | | | |
|--|-------------|-----------------------|----------------------|--------------------------|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| | | | | RPM | | | | | | |
| mm in. | | kN lbs. | | 50.0 | 100.0 | 200.0 | 500.0 | 1000.0 | 1200.0 | 1500.0 |
| 135, 140 5 3/8, 5 7/16, 5 1/2 | 23132 | 1160 261000 | 10000 | 418.1 94072.4 | 339.6 76409.0 | 275.8 62062.1 | 209.5 47144.6 | 170.2 38292.6 | 161.1 36254.1 | 150.7 33906.4 |
| | | | 30000 | 300.7 67656.8 | 244.2 54953.3 | 198.4 44635.0 | 150.7 33906.4 | 122.4 27540.0 | 115.9 26074.0 | 108.4 24385.5 |
| | | | 40000 | 275.8 62062.1 | 224.0 50409.0 | 182.0 40944.0 | 138.2 31102.6 | 112.3 25262.6 | 106.3 23917.8 | 99.4 22369.0 |
| | | | 60000 | 244.2 54953.3 | 198.4 44635.0 | 161.1 36254.1 | 122.4 27540.0 | 99.4 22369.0 | 94.1 21178.2 | 88.0 19806.7 |
| | | | 100000 | 209.5 47144.6 | 170.2 38292.6 | 138.2 31102.6 | 105.0 23626.7 | 85.3 19190.4 | 80.8 18168.9 | 75.5 16992.3 |
| | | | | | | 50.0 | 100.0 | 200.0 | 500.0 | 1000.0 |
| 150 5 13/16, 5 7/8, 5 15/16, 6 | 23134 | 1220 274000 | 10000 | 439.7 98758.0 | 357.2 80214.8 | 290.1 65153.3 | 220.4 49492.9 | 179.0 40199.9 | 169.5 38059.9 | |
| | | | 30000 | 316.3 71026.7 | 256.9 57690.4 | 208.6 46858.2 | 158.5 35595.2 | 128.7 28911.7 | 121.9 27372.7 | |
| | | | 40000 | 290.1 65153.3 | 235.6 52919.8 | 191.4 42983.4 | 145.4 32651.7 | 118.1 26520.9 | 111.8 25109.1 | |
| | | | 60000 | 256.9 57690.4 | 208.6 46858.2 | 169.5 38059.9 | 128.7 28911.7 | 104.6 23483.1 | 99.0 22233.0 | |
| | | | 100000 | 220.4 49492.9 | 179.0 40199.9 | 145.4 32651.7 | 110.4 24803.5 | 89.7 20146.3 | 84.9 19073.8 | |
| | | | | | | 50.0 | 100.0 | 200.0 | 500.0 | 1000.0 |
| 160 6 3/16, 6 3/8, 6 7/16, 6 1/2 | 23136 | 1410 317000 | 10000 | 508.2 114256.6 | 412.8 92803.2 | 335.3 75378.1 | 254.7 57260.0 | 206.9 46508.6 | 195.9 44032.8 | |
| | | | 30000 | 365.5 82173.3 | 296.9 66744.0 | 241.1 54211.9 | 183.2 41181.3 | 148.8 33448.9 | 140.9 31668.4 | |
| | | | 40000 | 335.3 75378.1 | 272.3 61224.0 | 221.2 49728.9 | 168.0 37775.9 | 136.5 30682.9 | 129.2 29049.6 | |
| | | | 60000 | 296.9 66744.0 | 241.1 54211.9 | 195.9 44032.8 | 148.8 33448.9 | 120.8 27168.4 | 114.4 25722.2 | |
| | | | 100000 | 254.7 57260.0 | 206.9 46508.6 | 168.0 37775.9 | 127.6 28696.0 | 103.7 23307.9 | 98.2 22067.2 | |
| | | | | | | 50.0 | 100.0 | 200.0 | 500.0 | 1000.0 |
| 170 6 13/16, 6 7/8, 6 15/16, 7 | 23138 | 1630 366000 | 10000 | 587.5 131917.7 | 477.2 107148.2 | 387.6 87029.6 | 294.4 66110.9 | 239.1 53697.6 | 226.4 50839.1 | |
| | | | 30000 | 422.5 94875.1 | 343.2 77060.9 | 278.8 62591.6 | 211.8 47546.9 | 172.0 38619.3 | 162.8 36563.5 | |
| | | | 40000 | 387.6 87029.6 | 314.8 70688.5 | 255.7 57415.7 | 194.2 43615.1 | 157.8 35425.7 | 149.4 33539.9 | |
| | | | 60000 | 343.2 77060.9 | 278.8 62591.6 | 226.4 50839.1 | 172.0 38619.3 | 139.7 31368.0 | 132.3 29698.2 | |
| | | | 100000 | 294.4 66110.9 | 239.1 53697.6 | 194.2 43615.1 | 147.6 33131.6 | 119.8 26910.7 | 113.5 25478.2 | |
| | | | | | | 50.0 | 100.0 | 200.0 | 500.0 | 1000.0 |
| 180 7 1/8, 7 3/16, 7 1/4 | 23140 | 1660 373000 | 10000 | 598.3 134440.7 | 486.0 109197.5 | 394.7 88694.1 | 299.8 67375.3 | 243.5 54724.6 | 230.6 51811.5 | |
| | | | 30000 | 430.3 96689.7 | 349.5 78534.8 | 283.9 63788.7 | 215.6 48456.3 | 175.2 39357.9 | 165.8 37262.8 | |
| | | | 40000 | 394.7 88694.1 | 320.6 72040.5 | 260.4 58513.8 | 197.8 44449.3 | 160.7 36103.3 | 152.1 34181.4 | |
| | | | 60000 | 349.5 78534.8 | 283.9 63788.7 | 230.6 51811.5 | 175.2 39357.9 | 142.3 31967.9 | 134.7 30266.2 | |
| | | | 100000 | 299.8 67375.3 | 243.5 54724.6 | 197.8 44449.3 | 150.3 33765.3 | 122.1 27425.4 | 115.6 25965.5 | |
| | | | | | | 50.0 | 100.0 | 200.0 | 500.0 | 1000.0 |

⁽¹⁾Speeds referenced here may be higher than speed rating for seals. Please refer to the charts on pages 56 – 58.

⁽²⁾For speeds greater than thermal reference speed, contact your Timken engineer.

Continued on next page.

LOAD RATINGS – continued

TABLE 28. TA - ALLOWABLE RADIAL LOAD (kN/LBS.) AT VARIOUS RPM⁽¹⁾

| Shaft Diameter | Bearing No. | C | L ₁₀ Life | Speed ⁽²⁾ | | | | |
|---|-------------|-----------------------|----------------------|---------------------------|--------------------------|--------------------------|--------------------------|-------------------------|
| | | | | RPM | | | | |
| mm in. | | kN lbs. | | 50.0 | 100.0 | 200.0 | 500.0 | 1000.0 |
| 200 7 13/16, 7 7/8, 7 15/16, 8 | 23144 | 1940 436000 | 10000 | 699.2 157147.8 | 567.9 127641.1 | 461.3 103674.6 | 350.4 78755.0 | 284.6 63967.6 |
| | | | 30000 | 502.9 113020.6 | 408.5 91799.4 | 331.8 74562.7 | 252.0 56640.6 | 204.7 46005.5 |
| | | | 40000 | 461.3 103674.6 | 374.7 84208.2 | 304.3 68396.9 | 231.2 51956.8 | 187.8 42201.2 |
| | | | 60000 | 408.5 91799.4 | 331.8 74562.7 | 269.5 60562.5 | 204.7 46005.5 | 166.3 37367.3 |
| | | | 100000 | 350.4 78755.0 | 284.6 63967.6 | 231.2 51956.8 | 175.6 39468.3 | 142.6 32057.6 |
| | | | | 50.0 | 100.0 | 200.0 | 500.0 | |
| 220 8 7/16, 8 1/2, 8 15/16, 9 | 23148 | 2200 495000 | 10000 | 792.9 178413.3 | 644.1 144913.6 | 523.1 117703.0 | 397.4 89412.3 | |
| | | | 30000 | 570.3 128314.7 | 463.2 104221.8 | 376.2 84652.6 | 285.8 64305.2 | |
| | | | 40000 | 523.1 117703.0 | 424.9 95603.3 | 345.1 77652.4 | 262.2 58987.6 | |
| | | | 60000 | 463.2 104221.8 | 376.2 84652.6 | 305.6 68757.9 | 232.1 52231.0 | |
| | | | 100000 | 397.4 89412.3 | 322.8 72623.8 | 262.2 58987.6 | 199.2 44809.2 | |
| | | | | 50.0 | 100.0 | 200.0 | 500.0 | |
| 240 9 7/16, 9 1/2 | 23152 | 2440 549000 | 10000 | 879.5 197876.5 | 714.3 160722.3 | 580.2 130544.4 | 440.7 99166.3 | |
| | | | 30000 | 632.5 142312.7 | 513.7 115591.4 | 417.3 93887.4 | 317.0 71320.4 | |
| | | | 40000 | 580.2 130544.4 | 471.3 106032.8 | 382.8 86123.6 | 290.8 65422.7 | |
| | | | 60000 | 513.7 115591.4 | 417.3 93887.4 | 338.9 76258.7 | 257.5 57928.9 | |
| | | | 100000 | 440.7 99166.3 | 358.0 80546.4 | 290.8 65422.7 | 220.9 49697.5 | |
| | | | | 50.0 | 100.0 | 200.0 | 500.0 | |
| 260 9 15/16, 10, 10 7/16, 10 1/2 | 23156 | 2530 569000 | 10000 | 911.9 205085.1 | 740.7 166577.4 | 601.6 135300.1 | 457.0 102778.9 | |
| | | | 30000 | 655.8 147497.1 | 532.7 119802.4 | 432.7 97307.7 | 328.7 73918.6 | |
| | | | 40000 | 601.6 135300.1 | 488.6 109895.5 | 396.9 89261.1 | 301.5 67806.0 | |
| | | | 60000 | 532.7 119802.4 | 432.7 97307.7 | 351.4 79036.8 | 267.0 60039.3 | |
| | | | 100000 | 457.0 102778.9 | 371.2 83480.7 | 301.5 67806.0 | 229.0 51507.9 | |
| | | | | 50.0 | 100.0 | 200.0 | 500.0 | |
| 280 10 15/16, 11 | 23160 | 3070 690000 | 10000 | 1106.5 248697.3 | 898.8 202000.7 | 730.0 164072.2 | 554.5 1246353 | |
| | | | 30000 | 795.8 178862.9 | 646.4 145278.8 | 525.0 118000.6 | 398.8 89637.6 | |
| | | | 40000 | 730.0 164072.2 | 592.9 133265.2 | 481.6 108242.8 | 365.8 82225.2 | |
| | | | 60000 | 646.4 145278.8 | 525.0 118000.6 | 426.4 95844.3 | 323.9 72806.9 | |
| | | | 100000 | 554.5 124635.3 | 450.4 101233.2 | 365.8 82225.2 | 277.9 62461.3 | |
| | | | | 50.0 | 100.0 | 200.0 | 500.0 | |

⁽¹⁾ Speeds referenced here may be higher than speed ratings for seals. Please refer to the charts on page 56 – 58.

⁽²⁾ For speeds greater than thermal reference speed, contact your Timken engineer.

Continued on next page.

Continued from previous page.

| Shaft Diameter | Bearing No. | C | L ₁₀ Life | Speed ⁽²⁾ | | | |
|--|-------------|------------------------|----------------------|---------------------------|---------------------------|---------------------------|--------------------------|
| mm in. | | kN lbs. | | RPM | | | |
| | | | | 50.0 | 100.0 | 200.0 | 500.0 |
| 300 11 7/16, 11 1/2, 11 15/16, 12 | 23164 | 3650 821000 | 10000 | 1315.6 295913.7 | 1068.6 240351.6 | 867.9 195222.1 | 659.3 148297.9 |
| | | | 30000 | 946.2 212820.9 | 768.5 172860.7 | 624.2 140403.6 | 474.2 106655.8 |
| | | | 40000 | 867.9 195222.1 | 705.0 158566.3 | 572.6 128793.2 | 435.0 97836.1 |
| | | | 60000 | 768.5 172860.7 | 624.2 140403.6 | 507.0 114040.8 | 385.1 86629.6 |
| | | | 100000 | 659.3 148297.9 | 535.5 120452.8 | 435.0 97836.1 | 330.4 74319.9 |
| | | | | | | 50.0 | 100.0 |
| 320 12 7/16, 12 1/2 | 23168 | 4110 924000 | 10000 | 1481.4 333038.1 | 1203.2 270505.3 | 977.3 219714.0 | 742.4 166902.9 |
| | | | 30000 | 1065.4 239520.8 | 865.4 194547.3 | 702.9 158018.2 | 533.9 120036.5 |
| | | | 40000 | 977.3 219714.0 | 793.8 178459.5 | 644.8 144951.2 | 489.8 110110.3 |
| | | | 60000 | 865.4 194547.3 | 702.9 158018.2 | 570.9 128348.0 | 433.7 97497.9 |
| | | | 100000 | 742.4 166902.9 | 603.0 135564.5 | 489.8 110110.3 | 372.1 83643.8 |
| | | | | | | 50.0 | 100.0 |
| 340 12 15/16, 13, 13 7/16, 13 1/2 | 23172 | 4250 955000 | 10000 | 1531.8 344211.4 | 1244.2 279580.7 | 1010.6 227085.4 | 767.7 172502.5 |
| | | | 30000 | 1101.7 247556.6 | 894.8 201074.3 | 726.8 163319.7 | 552.1 124063.7 |
| | | | 40000 | 1010.6 227085.4 | 820.8 184446.8 | 666.7 149814.3 | 506.5 113804.4 |
| | | | 60000 | 894.8 201074.3 | 726.8 163319.7 | 590.3 132654.0 | 448.4 100768.9 |
| | | | 100000 | 767.7 172502.5 | 623.5 140112.6 | 506.5 113804.4 | 384.7 86450.1 |
| | | | | | | 50.0 | 100.0 |
| 360 13 15/16, 14 | 23176 | 4490 1009000 | 10000 | 1618.3 363674.7 | 1314.5 295389.5 | 1067.7 239925.8 | |
| | | | 30000 | 1163.9 261554.6 | 945.4 212443.9 | 767.9 172554.5 | |
| | | | 40000 | 1067.7 239925.8 | 867.2 194876.3 | 704.4 158285.4 | |
| | | | 60000 | 945.4 212443.9 | 767.9 172554.5 | 623.7 140154.9 | |
| | | | 100000 | 811.0 182256.5 | 658.7 148035.2 | 535.1 120239.5 | |
| | | | | | | 50.0 | 100.0 |
| 380 14 15/16, 15 | 23180 | 4770 1072000 | 10000 | 1719.3 386381.8 | 1396.4 313833.0 | 1134.2 254906.3 | |
| | | | 30000 | 1236.5 277885.6 | 1004.3 225708.5 | 815.7 183328.5 | |
| | | | 40000 | 1134.2 254906.3 | 921.3 207044.0 | 748.3 168168.5 | |
| | | | 60000 | 1004.3 225708.5 | 815.7 183328.5 | 662.6 148905.9 | |
| | | | 100000 | 861.6 193636.3 | 699.8 157278.2 | 568.4 127746.0 | |
| | | | | | | | |

(1) Speeds referenced here may be higher than speed ratings for seals. Please refer to the charts on page 56 – 58.

(2) For speeds greater than thermal reference speed, contact your Timken engineer.

HOUSING LOADS

Because solid-block housed units are made of cast steel, they are built to last with high allowable load limits in multiple orientations.

Refer to the table below for the maximum recommended housing load limit.

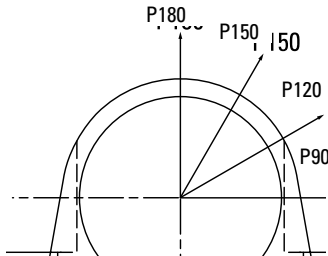


Fig. 32. Allowable housing loads.

CAUTION
*Failure to follow these cautions
 could create a risk of injury.*

Do not use damaged housed units. The use of a damaged housed unit can result in equipment damage and/or injury.

TABLE 29. HOUSING CAPACITY CHART – QA/QM/TA/TAA SERIES

| Bearing No. | Maximum Recommended Housing Loads | |
|-------------|-----------------------------------|----------------|
| | Two-Bolt | Four-Bolt |
| | kN lbs. | kN lbs. |
| 22208 | 109 24400 | N/A |
| 22209 | 117 26400 | N/A |
| 22210 | 134 30200 | N/A |
| 22211 | 158 35400 | 158 35400 |
| 22212 | 174 39000 | 174 39000 |
| 22213 | 228 51300 | 235 52800 |
| 22214 | N/A | N/A |
| 22215 | 266 59700 | 267 60000 |
| 22216 | 278 62500 | 278 62500 |
| 22217 | 320 71900 | 320 71900 |
| 22218 | 404 90700 | 425 95500 |
| 22219 | 386 86800 | 433 97400 |
| 22220 | 512 115000 | 512 115000 |
| 22222 | 478 107400 | 677 152100 |
| 22224 | 494 110900 | 547 123000 |
| 22226 | 687 154300 | 837 188200 |
| 22228 | 745 167500 | N/A |
| 23230 | 1655 372000 | 1512 339700 |
| 23234 | N/A | 2198 494000 |

The values listed above are the maximum recommended housing load ratings; these loads may exceed bearing, mounting bolt and/or shaft capacities. When side load is present, stop bars or shear strips should be used against the machined housing foot ends.

TABLE 30. HOUSING CAPACITY CHART – QV/DV/DAA SERIES

| Bearing No. | Maximum Recommended Housing Loads | |
|-------------|-----------------------------------|----------------------|
| | Two-Bolt | Four-Bolt |
| | kN lbs. | kN lbs. |
| 22208 | N/A | N/A |
| 22209 | 117 26400 | N/A |
| 22210 | 134 30200 | N/A |
| 22211 | 158 35400 | N/A |
| 22212 | 174 39000 | N/A |
| 22213 | 228 51300 | N/A |
| 22214 | 231 52000 | 231 52000 |
| 22215 | 266 59700 | N/A |
| 22216 | 278 62500 | 278 62500 |
| 22217 | 320 71900 | 238 53500 |
| 22218 | N/A | N/A |
| 22219 | 394 88600 | 399 89700 |
| 22220 | 512 115000 | 423 95000 |
| 22222 | 677 152100 | 677 152100 |
| 22224 | N/A | N/A |
| 22226 | 837 188200 | 837 188200 |
| 22228 | 828 186000 | 576 129400 |
| 23230 | N/A | N/A |
| 23234 | N/A | N/A |

The values listed above are the maximum recommend housing load ratings; these loads may exceed bearing, mounting bolt and/or shaft capacities. When side load is present, stop bars or shear strips should be used against the machined housing foot ends.

TABLE 31. HOUSING CAPACITY CHART – TAA SERIES (ONLY)

| Bearing No. | Maximum Recommended Housing Loads | |
|-------------|-----------------------------------|-----------------------|
| | Two-Bolt | Four-Bolt |
| | kN lbs. | kN lbs. |
| 23132 | N/A | 520 116901 |
| 23134 | N/A | 610 137134 |
| 23136 | N/A | 705 158491 |
| 23138 | N/A | 815 183220 |
| 23140 | N/A | 830 186592 |
| 23144 | N/A | 970 218066 |
| 23148 | N/A | 1100 247291 |
| 23152 | N/A | 1220 274268 |
| 23156 | N/A | 1265 284385 |
| 23160 | N/A | 1535 345083 |
| 23164 | N/A | 1825 410278 |
| 23168 | N/A | 2055 461985 |
| 23172 | N/A | 2125 477721 |
| 23176 | N/A | 2245 504698 |
| 23180 | N/A | 2385 536172 |

The values listed above are the maximum recommend housing load ratings; these loads may exceed bearing, mounting bolt and/or shaft capacities. When side load is present, stop bars or shear strips should be used against the machined housing foot ends.

NORMAL SPEED RATINGS FOR SEALS

TABLE 32. V-LOCK SERIES NORMAL SEAL SPEED RATINGS

| Shaft Dia. | Bearing No. | Oil Lubrication | | | Grease Lubrication | | |
|---|----------------|-------------------------|--------------|---------------------------|-------------------------|--------------|---------------------------|
| | | M/N Seal ⁽¹⁾ | T Seal | B/C/O Seal ⁽¹⁾ | M/N Seal ⁽¹⁾ | T Seal | B/C/O Seal ⁽¹⁾ |
| mm in. | | RPM | RPM | RPM | RPM | RPM | RPM |
| 50 1 15/16, 2 | 22211 | 2200 | 3800 | 1800 | 2200 | 3200 | 1600 |
| 55 2 3/16, 2 1/4 | 22212 22213 | 2000 1800 | 3500 3200 | 1650 1500 | 2000 1800 | 3000 2800 | 1550 1500 |
| 60, 65 2 7/16, 2 1/2 | 22214 22215 | 1700 1600 | 3050 2900 | 1400 1300 | 1700 1600 | 2600 2400 | 1400 1300 |
| 70, 75 2 11/16, 2 3/4, 2 15/16, 3 | 22216 22217 | 1500 1400 | 2650 2400 | 1200 1100 | 1500 1400 | 2200 2000 | 1150 1100 |
| 80, 85, 90 3 3/16, 3 1/4, 3 7/16, 3 1/2 | 22219 22220 | 1300 1200 | 2200 2000 | 1000 900 | 1300 1200 | 1800 1600 | 950 900 |
| 100 3 11/16, 3 3/4, 3 15/16, 4 | 22222 | 900 | 1700 | 600 | 900 | 1200 | 600 |
| 110, 115 4 7/16, 4 1/2 | 22224 22226 | 700 | 1500 | 400 | 700 | 1000 | 400 |
| 125, 130 4 15/16, 5 | 22228 | 650 | 1200 | 350 | 650 | 900 | 350 |

⁽¹⁾Bearings with contact seals will have higher operating temperatures than bearings with labyrinth seals.

TABLE 33. CL SERIES NORMAL SEAL SPEED RATINGS

| Shaft Dia. | Bearing No. | Oil Lubrication | | | Grease Lubrication | | |
|---|-------------|-------------------------|--------|---------------------------|-------------------------|--------|---------------------------|
| | | M/N Seal ⁽¹⁾ | T Seal | B/C/O Seal ⁽¹⁾ | M/N Seal ⁽¹⁾ | T Seal | B/C/O Seal ⁽¹⁾ |
| mm in. | | RPM | RPM | RPM | RPM | RPM | RPM |
| 35 1 7/16, 1 1/2 | 22208 | 2700 | 4500 | 1950 | 2700 | 4000 | 1950 |
| 40, 45 1 11/16, 1 3/4 | 22209 | 2700 | 4500 | 1950 | 2700 | 4000 | 1950 |
| 50 1 15/16, 2 | 22210 | 2400 | 4200 | 1800 | 2400 | 3550 | 1800 |
| 55 2 3/16, 2 1/4 | 22211 | 2200 | 3800 | 1600 | 2200 | 3200 | 1600 |
| 60, 65 2 7/16, 2 1/2 | 22213 | 1800 | 3200 | 1500 | 1800 | 2800 | 1500 |
| 70, 75 2 11/16, 2 3/4, 2 15/16, 3 | 22215 | 1600 | 2900 | 1300 | 1600 | 2400 | 1300 |
| 80, 85, 90 3 3/16, 3 1/4, 3 7/16, 3 1/2 | 22218 | 1400 | 2400 | 1000 | 1400 | 2000 | 1000 |
| 100 3 15/16, 4 | 22220 | 1200 | 2000 | 900 | 1200 | 1600 | 900 |
| 110, 115 4 7/16, 4 1/2 | 22222 | 900 | 1700 | 600 | 900 | 1200 | 600 |
| 125, 130 4 15/16, 5 | 22226 | 700 | 1500 | 400 | 700 | 1000 | 400 |

⁽¹⁾Bearings with contact seals will have higher operating temperatures than bearings with labyrinth seals.

TABLE 34. EC SERIES NORMAL SEAL SPEED RATINGS

| Shaft Dia. | Bearing No. | Oil Lubrication | | | Grease Lubrication | | |
|---|-------------|-------------------------|--------|---------------------------|-------------------------|--------|---------------------------|
| | | M/N Seal ⁽¹⁾ | T Seal | B/C/O Seal ⁽¹⁾ | M/N Seal ⁽¹⁾ | T Seal | B/C/O Seal ⁽¹⁾ |
| mm in. | | RPM | RPM | RPM | RPM | RPM | RPM |
| 35 1 7/16, 1 1/2 | 22208 | 2700 | 4500 | 1950 | 2700 | 4000 | 1950 |
| 40, 45 1 11/16, 1 3/4 | 22209 | 2700 | 4500 | 1950 | 2700 | 4000 | 1950 |
| 50 1 15/16, 2 | 22210 | 2400 | 4200 | 1800 | 2400 | 3550 | 1800 |
| 55 2 3/16, 2 1/4 | 22211 | 2200 | 3800 | 1600 | 2200 | 3200 | 1600 |
| 60, 65 2 7/16, 2 1/2 | 22213 | 1800 | 3200 | 1500 | 1800 | 2800 | 1500 |
| 70, 75 2 11/16, 2 3/4, 2 15/16, 3 | 22215 | 1600 | 2900 | 1300 | 1600 | 2400 | 1300 |
| 80, 85, 90 3 3/16, 3 1/4, 3 7/16, 3 1/2 | 22218 | 1400 | 2400 | 1000 | 1400 | 2000 | 1000 |
| 100 3 11/16, 3 3/4, 3 15/16, 4 | 22220 | 1200 | 2000 | 900 | 1200 | 1600 | 900 |
| 110, 115 4 7/16, 4 1/2 | 22222 | 900 | 1700 | 600 | 900 | 1200 | 600 |
| 125, 130 4 15/16, 5 | 22226 | 700 | 1500 | 400 | 700 | 1000 | 400 |
| 140, 150 5 7/16, 5 1/2, 5 15/16, 6 | 23230 | 650 | 950 | 350 | 600 | 800 | 350 |
| 170, 180 6 7/16, 6 1/2, 6 15/16, 7 | 23234 | 600 | 900 | 350 | 600 | 800 | 350 |

⁽¹⁾Bearings with contact seals will have higher operating temperatures than bearings with labyrinth seals.

NORMAL SPEED RATINGS FOR SEALS – continued

TABLE 35. TA/DV TAA/DVV SERIES NORMAL SEAL SPEED RATINGS

| Shaft Dia. | Bearing No. | Oil Lubrication | | | Grease Lubrication | | |
|---|-------------|-------------------------|--------|---------------------------|-------------------------|--------|---------------------------|
| | | M/N Seal ⁽¹⁾ | T Seal | B/C/O Seal ⁽¹⁾ | M/N Seal ⁽¹⁾ | T Seal | B/C/O Seal ⁽¹⁾ |
| mm in. | | RPM | RPM | RPM | RPM | RPM | RPM |
| 40 1 7/16, 1 1/2 | 22209 | 2700 | 4500 | 1950 | 2700 | 4000 | 1950 |
| 45 1 11/16, 1 3/4 | 22210 | 2400 | 4200 | 1800 | 2400 | 3550 | 1800 |
| 50 1 15/16, 2 | 22211 | 2200 | 3800 | 1800 | 2200 | 3200 | 1600 |
| 55 – | 22212 | 2000 | 3500 | 1650 | 2000 | 3000 | 1550 |
| 60 2 3/16, 2 1/4 | 22213 | 1800 | 3200 | 1500 | 1800 | 2800 | 1500 |
| 65 2 7/16, 2 1/2 | 22215 | 1600 | 2900 | 1300 | 1600 | 2400 | 1300 |
| 70 2 11/16, 2 3/4 | 22216 | 1500 | 2650 | 1200 | 1500 | 2200 | 1150 |
| 75 2 15/16, 3 | 22217 | 1400 | 2400 | 1100 | 1400 | 2000 | 1100 |
| 80 3 3/16, 3 1/4 | 22218 | 1400 | 2400 | 1000 | 1400 | 2000 | 1000 |
| 85 – | 22219 | 1300 | 2200 | 1000 | 1300 | 1800 | 950 |
| 90 3 7/16, 3 1/2 | 22220 | 1200 | 2000 | 900 | 1200 | 1600 | 900 |
| 100 3 15/16, 4 | 22222 | 900 | 1700 | 600 | 900 | 1200 | 600 |
| 110 4 3/16, 4 1/4 | 22224 | 800 | 1600 | 500 | 800 | 1100 | 500 |
| 115 4 7/16, 4 1/2 | 22226 | 700 | 1500 | 400 | 700 | 1000 | 400 |
| 125 4 15/16, 5 | 22228 | 650 | 1200 | 350 | 650 | 900 | 350 |
| 135, 140 5 3/8, 5 7/16, 5 1/2 | 23132 | - | - | - | - | 750 | 500 ⁽²⁾ |
| 150 5 13/16, 5 7/8, 5 15/16, 6 | 23134 | - | - | - | - | 700 | 470 ⁽²⁾ |
| 160 6 5/16, 6 3/8, 6 7/16, 6 1/2 | 23136 | - | - | - | - | 650 | 430 ⁽²⁾ |
| 170 6 13/16, 6 7/8, 6 15/16, 7 | 23138 | - | - | - | - | 600 | 400 ⁽²⁾ |
| 180 7 1/8, 7 3/16, 7 1/4 | 23140 | - | - | - | - | 600 | 400 ⁽²⁾ |
| 200 7 13/16, 7 7/8, 7 15/16, 8 | 23144 | - | - | - | - | 500 | 330 ⁽²⁾ |
| 220 8 7/16, 8 1/2, 8 15/16, 9 | 23148 | - | - | - | - | 470 | 310 ⁽²⁾ |
| 240 9 7/16, 9 1/2 | 23152 | - | - | - | - | 380 | 250 ⁽²⁾ |
| 260 9 15/16, 10, 10 7/16, 10 1/2 | 23156 | - | - | - | - | 360 | 240 ⁽²⁾ |
| 280 10 15/16, 11 | 23160 | - | - | - | - | 320 | 210 ⁽²⁾ |
| 300 11 7/16, 11 1/2, 11 15/16, 12 | 23164 | - | - | - | - | 290 | 190 ⁽²⁾ |
| 320 12 7/16, 12 1/2 | 23168 | - | - | - | - | 270 | 180 ⁽²⁾ |
| 340 12 15/16, 13, 13 7/16, 13 1/2 | 23172 | - | - | - | - | 250 | 170 ⁽²⁾ |
| 360 13 15/16, 14 | 23176 | - | - | - | - | 240 | 160 ⁽²⁾ |
| 380 14 15/16, 15 | 23180 | - | - | - | - | 230 | 150 ⁽²⁾ |

⁽¹⁾Bearings with contact seals will have higher operating temperatures than bearings with labyrinth seals.

⁽²⁾Only available in O seal.

SEAL MATERIAL 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 | Nitrile Rubber | Viton | DuPont Teflon |
|---|----------|----------------|-------|---------------|
| Acetaldehyde | C | C | C | A |
| Acetamide | N | A | B | A |
| Acetic Acid | C | B | B | A |
| Acetic Anhydride | C | C | C | A |
| Acetone | C | C | C | A |
| Acetyl Bromide | C | N | N | N |
| Acetyl Chloride | C | C | A | A |
| Acetylene | C | A | A | A |
| Adipic Acid | A | A | N | A |
| Aero Shell Grease | B | A-B | A | A |
| Aero Lubriplate | A | A | A | A |
| Aero Safe 2300 | N | C | C | A |
| Aerzine 50 | N | C | C | A |
| Aluminum Acetate | N | A | C | A |
| Aluminum Bromide | N | A | A | A |
| Aluminum Chloride | B | A | A | A |
| Aluminum Sulfate | B | A | A | A |
| Ammonia | B | B | C | A |
| Ammonium Carbonate | B | C | N | A |
| Ammonium Chloride | N | A | A | A |
| Ammonium Hydroxide | B | C | A | A |
| Ammonium Nitrate | B | A | N | A |
| Ammonium Persulfate | B | C | N | A |
| Ammonium Sulfate | B | A | C | A |
| Ammonium Sulfide | B | A | C | A |
| Ammonium Thiocyanate | B | N | N | A |
| Ammonium Acetate | C | N | N | A |
| Amyl Acetate | C | C | C | A |
| Amyl Alcohol | C | B | C | A |
| Aniline | C | C | C | A |
| Aniline Hydrochloride | C | B | B | B |
| Animal Fats and Oils | B | A | A | A |
| Antimony Salts | B | N | N | A |
| Aqua Regia | C | C | B | A |
| Arsenic Salts | B | N | N | A |
| ASTM Oil #1 | A | A | A | A |
| ASTM Oil #2 | B | A | A | A |
| ASTM Oil #3 | B | A | A | A |
| ASTM Reference Fuel A | A | A | A | A |
| ASTM Reference Fuel B | B | B | A | A |
| Atlantic Oil | A | A | A | A |
| Barium Carbonate | B | A | A | A |
| Barium Hydroxide | A | A | A | A |
| Beer | A | A | A | A |
| Benzaldehyde | B | C | C | A |
| Benzene | C | C | B | A |
| Benzoic Acid | B | C | A | A |
| Black Sulphate Liquors | N | B | A | A |

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

DISCLAIMER: 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.

Continued on next page.

SEAL AND COVER OPTIONS • SEAL MATERIAL CHEMICAL COMPATIBILITY

Continued from previous page.

| A - Little to no effect B - Minor to moderate effect C - Severe effect to destruction N - No data – test prior to use. | Urethane | Nitrile Rubber | Viton | DuPont Teflon |
|---|----------|----------------|-------|---------------|
| Freon, 12 or 113 | A | A | B | A |
| Fuel Oil | B | A | A | A |
| Gasoline | B | B | A | A |
| Glucose | A | A | A | A |
| Glue | N | A | A | A |
| Glycerin | A | A | A | A |
| Heptane | A | N | N | A |
| Hexane | A | A | A | A |
| Hydrazine | C | B | C | B |
| Hydrobromic Acid | B | C | A | A |
| Hydrocarbon Oil | A | A | A | A |
| Hydrochloric Acid | B | C | B | A |
| Hydrofluoric Acid | B | C | C | A |
| Hydrogen | A | A | A | A |
| Hydrogen Peroxide | B | C | A | B |
| Hydrogen Sulfide | C | C | C | A |
| Hydrologic Acid | B | N | N | N |
| Iodine | A | B | A | A |
| Isobutyl Alcohol | N | B | A | A |
| Isopropyl Chloride | N | C | A | A |
| Isopropyl Ether | B | B | C | N |
| Isopropyl Alcohol (Propanol) | B | A | A | N |
| JP4 Oil | B | A | A | A |
| JP5 and 6 Oil | C | A | A | A |
| Kerosene | B | A | A | A |
| Lactic Acid | B | B | A | A |
| Lead Acetate | B | B | C | A |
| Linseed Oil | B | A | A | A |
| Liquefied Petroleum Gas | A | A | A | N |
| Lubrication Oil | B | A | A | A |
| Lye | N | B | B | A |
| Magnesium Chloride | N | A | A | A |
| Magnesium Hydroxide | A | B | A | A |
| Magnesium Salts | B | A | A | A |
| Maleic Acid | C | C | A | A |
| Mercury | B | A | A | A |
| Methyl Alcohol (Methanol) | A | C | A | N |
| Methyl Ethyl Ketone | C | C | C | A |
| Methylene Chloride | C | C | B | A |
| MIL-D-5606 Oil | C | A | A | A |
| MIL-L7808 Oil | B | B | A | A |
| Mineral Oil | A | A | A | A |
| Mineral Spirits | N | B | A | A |
| Naphthalene | B | C | A | A |
| Natural Gas | B | A | A | A |
| Nickel Salts | C | A | A | A |
| Oxygen | A | B | A | A |
| Ozone | A | C | A | A |

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

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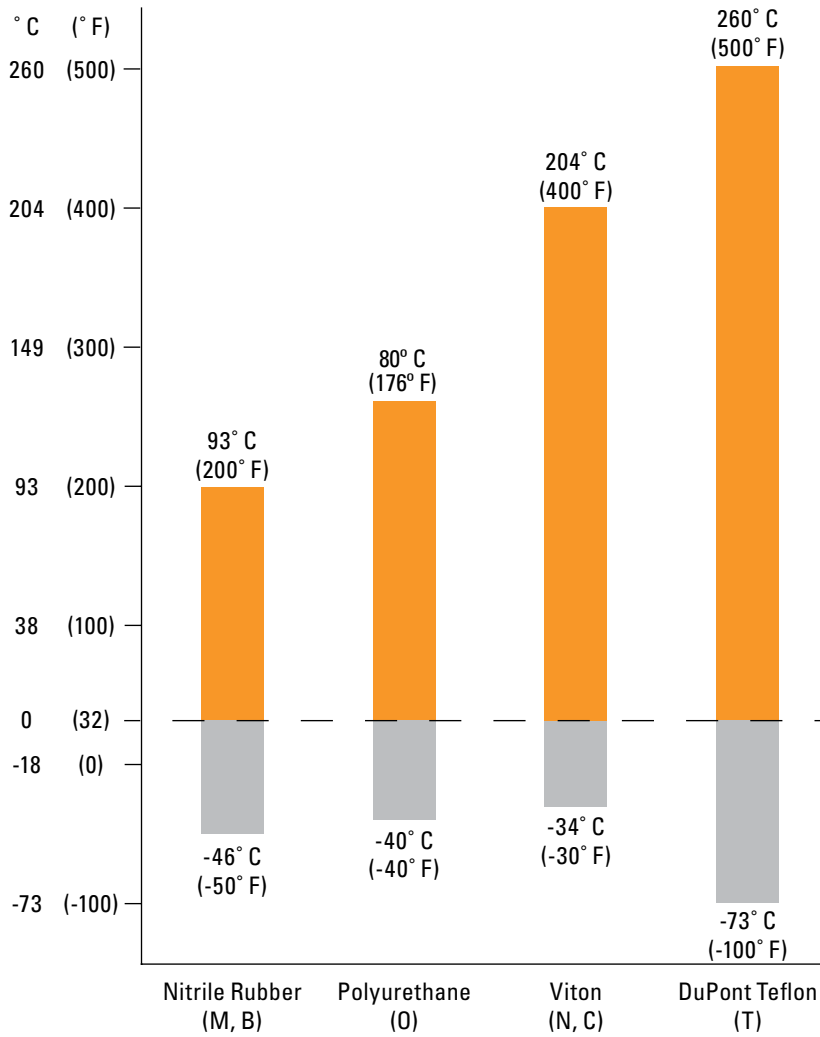


Fig. 33. Seal temperature ratings based on analytics.

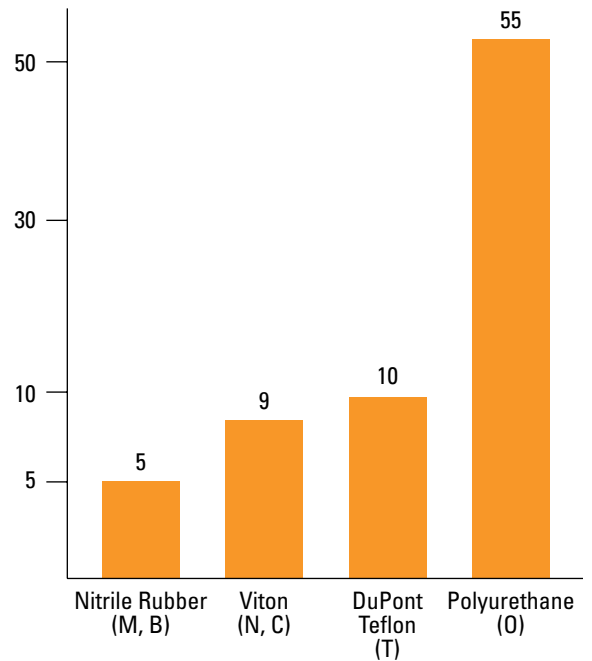


Fig. 34. Relative abrasion resistance ratings.

INTERNAL RADIAL CLEARANCES

TABLE 36. V-LOCK SERIES (TAPERED BORE, C3)

| Shaft Dia. | Bearing No. | Clearance | | Minimum Permissible RIC After Installation |
|---|-------------|-----------------|-----------------|--|
| | | Min. | Max. | |
| mm in. | | mm in. | mm in. | mm in. |
| 50 1 15/16, 2 | 22211 | 0.075 0.0030 | 0.095 0.0037 | 0.038 0.0015 |
| 55 2 3/16, 2 1/4 | 22212 | 0.075 0.0030 | 0.095 0.0037 | 0.038 0.0015 |
| 55 2 3/16, 2 1/4 | 22213 | 0.075 0.0030 | 0.095 0.0037 | 0.038 0.0015 |
| 60, 65 2 7/16, 2 1/2 | 22214 | 0.094 0.0037 | 0.119 0.0047 | 0.043 0.0017 |
| 60, 65 2 7/16, 2 1/2 | 22215 | 0.094 0.0037 | 0.119 0.0047 | 0.043 0.0017 |
| 70, 75 2 11/16, 2 3/4, 2 15/16, 3 | 22216 | 0.094 0.0037 | 0.119 0.0047 | 0.049 0.0017 |
| 70, 75 2 11/16, 2 3/4, 2 15/16, 3 | 22217 | 0.109 0.0043 | 0.140 0.0055 | 0.051 0.0020 |
| 80, 85, 90 3 3/16, 3 1/4, 3 7/16, 3 1/2 | 22219 | 0.109 0.0043 | 0.140 0.0055 | 0.051 0.0020 |
| 80, 85, 90 3 3/16, 3 1/4, 3 7/16, 3 1/2 | 22220 | 0.109 0.0043 | 0.140 0.0055 | 0.051 0.0020 |
| 100 3 11/16, 3 3/4, 3 15/16, 4 | 22222 | 0.135 0.0053 | 0.170 0.0067 | 0.064 0.0025 |
| 110 — | 22224 | 0.135 0.0053 | 0.170 0.0067 | 0.064 0.0025 |
| 110, 115 4 7/16, 4 1/2 | 22226 | 0.160 0.0063 | 0.201 0.0079 | 0.076 0.0030 |
| 125, 130 4 15/16, 5 | 22228 | 0.160 0.0063 | 0.201 0.0079 | 0.076 0.0030 |

TABLE 37. CL SERIES (STRAIGHT BORE, C NORMAL)

| Shaft Dia. | Bearing No. | Clearance | |
|---|-------------|-----------------|-----------------|
| | | Min. | Max. |
| mm in. | | mm in. | mm in. |
| 35 1 7/16, 1 1/2 | 22208 | 0.030 0.0012 | 0.045 0.0018 |
| 40, 45 1 11/16, 1 3/4 | 22209 | 0.035 0.0014 | 0.055 0.0022 |
| 50 1 15/16, 2 | 22210 | 0.040 0.0016 | 0.065 0.0026 |
| 55 2 3/16, 2 1/4 | 22211 | 0.040 0.0016 | 0.065 0.0026 |
| 60, 65 2 7/16, 2 1/2 | 22213 | 0.040 0.0016 | 0.065 0.0026 |
| 70, 75 2 11/16, 2 3/4, 2 15/16, 3 | 22215 | 0.050 0.002 | 0.080 0.0031 |
| 80, 85, 90 3 3/16, 3 1/4, 3 7/16, 3 1/2 | 22218 | 0.060 0.0024 | 0.100 0.0039 |
| 100 3 15/16, 4 | 22220 | 0.075 0.003 | 0.120 0.0047 |
| 110, 115 4 7/16, 4 1/2 | 22222 | 0.075 0.003 | 0.120 0.0047 |
| 125, 130 4 15/16, 5 | 22226 | 0.095 0.0037 | 0.145 0.0057 |

TABLE 38. EC SERIES (STRAIGHT BORE, C NORMAL)

| Shaft Dia. | Bearing No. | Clearance | | Shaft Dia. | Bearing No. | Clearance | |
|---|-------------|-------------------------|------------------------|---|-------------|------------------------|------------------------|
| | | Min. | Max. | | | Min. | Max. |
| mm in. | | mm in. | mm in. | mm in. | | mm in. | mm in. |
| 35 1 ⁷ / ₁₆ , 1 ¹ / ₂ | 22208 | 0.030 0.0012 | 0.045 0.0018 | 80, 85, 90 3 ³ / ₁₆ , 3 ¹ / ₄ 3 ⁷ / ₁₆ , 3 ¹ / ₂ | 22218 | 0.060 0.0024 | 0.100 0.0039 |
| 40, 45 1 ¹¹ / ₁₆ , 1 ³ / ₄ | 22209 | 0.0350 0.0014 | 0.055 0.0022 | 100 3 ¹¹ / ₁₆ , 3 ³ / ₄ 3 ¹⁵ / ₁₆ , 4 | 22220 | 0.075 0.003 | 0.120 0.0047 |
| 50 1 ¹⁵ / ₁₆ , 2 | 22210 | 0.040 0.0016 | 0.065 0.0026 | 110, 115 4 ⁷ / ₁₆ , 4 ¹ / ₂ | 22222 | 0.075 0.003 | 0.120 0.0047 |
| 55 2 ³ / ₁₆ , 2 ¹ / ₄ | 22211 | 0.040 0.0016 | 0.065 0.0026 | 125, 130 4 ¹⁵ / ₁₆ , 5 | 22226 | 0.095 0.0037 | 0.145 0.0057 |
| 60, 65 2 ⁷ / ₁₆ , 2 ¹ / ₂ | 22213 | 0.040 0.0016 | 0.065 0.0026 | 140, 150 5 ⁷ / ₁₆ , 5 ¹ / ₂ 5 ¹⁵ / ₁₆ , 6 | 23230 | 0.110 0.0043 | 0.170 0.0067 |
| 70, 75 2 ¹¹ / ₁₆ , 2 ³ / ₄ 2 ¹⁵ / ₁₆ , 3 | 22215 | 0.050 0.002 | 0.080 0.0031 | 170, 180 6 ⁷ / ₁₆ , 6 ¹ / ₂ , 6 ¹⁵ / ₁₆ , 7 | 23234 | 0.120 0.0047 | 0.180 0.0071 |

INTERNAL RADIAL CLEARANCES – *continued*

TABLE 39. TA (TAPERED BORE, C3)

| Shaft Dia. | Bearing No. | Clearance Prior To Installation | | Recommended Reduction Of Internal Radial Clearance | | Recommended Axial Movement Of Adapter Sleeve | | Minimum Internal Radial Clearance |
|--------------------------------------|-------------|---------------------------------|-----------------|--|-----------------|--|------------------|-----------------------------------|
| | | Min. | Max. | Min. | Max. | Min. | Max. | |
| mm in. | | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. |
| 40 1 7/16, 1 1/2 | 22209 | 0.061 0.0024 | 0.079 0.0031 | 0.025 0.0010 | 0.030 0.0012 | 0.381 0.015 | 0.457 0.018 | 0.030 0.0012 |
| 45 1 11/16, 1 3/4 | 22210 | 0.061 0.0024 | 0.079 0.0031 | 0.025 0.0010 | 0.030 0.0012 | 0.381 0.015 | 0.457 0.018 | 0.030 0.0012 |
| 50 1 15/16, 2 | 22211 | 0.076 0.0030 | 0.094 0.0037 | 0.030 0.0012 | 0.038 0.0015 | 0.457 0.018 | 0.559 0.022 | 0.038 0.0015 |
| 55 – | 22212 | 0.076 0.0030 | 0.094 0.0037 | 0.030 0.0012 | 0.038 0.0015 | 0.457 0.018 | 0.559 0.022 | 0.038 0.0015 |
| 60 2 3/16, 2 1/4 | 22213 | 0.076 0.0030 | 0.094 0.0037 | 0.030 0.0012 | 0.038 0.0015 | 0.457 0.018 | 0.559 0.022 | 0.038 0.0015 |
| 65 2 7/16, 2 1/2 | 22215 | 0.094 0.0037 | 0.119 0.0047 | 0.038 0.0015 | 0.051 0.0020 | 0.559 0.022 | 0.762 0.030 | 0.043 0.0017 |
| 70 2 11/16, 2 3/4 | 22216 | 0.094 0.0037 | 0.119 0.0047 | 0.038 0.0015 | 0.051 0.0020 | 0.559 0.022 | 0.762 0.030 | 0.043 0.0017 |
| 75 2 15/16, 3 | 22217 | 0.109 0.0043 | 0.140 0.0055 | 0.046 0.0018 | 0.064 0.0025 | 0.686 0.027 | 0.965 0.038 | 0.051 0.0020 |
| 80 3 3/16, 3 1/4 | 22218 | 0.109 0.0043 | 0.140 0.0055 | 0.046 0.0018 | 0.064 0.0025 | 0.686 0.027 | 0.965 0.038 | 0.051 0.0020 |
| 85 – | 22219 | 0.109 0.0043 | 0.140 0.0055 | 0.046 0.0018 | 0.064 0.0025 | 0.686 0.027 | 0.965 0.038 | 0.051 0.0020 |
| 90 3 7/16, 3 1/2 | 22220 | 0.109 0.0043 | 0.140 0.0055 | 0.046 0.0018 | 0.064 0.0025 | 0.686 0.027 | 0.965 0.038 | 0.051 0.0020 |
| 100 3 15/16, 4 | 22222 | 0.135 0.0053 | 0.170 0.0067 | 0.051 0.0020 | 0.071 0.0028 | 0.762 0.030 | 1.067 0.042 | 0.064 0.0025 |
| 110 4 3/16, 4 1/4 | 22224 | 0.135 0.0053 | 0.170 0.0067 | 0.051 0.0020 | 0.071 0.0028 | 0.762 0.030 | 1.067 0.042 | 0.064 0.0025 |
| 115 4 7/16, 4 1/2 | 22226 | 0.160 0.0063 | 0.201 0.0079 | 0.064 0.0025 | 0.089 0.0035 | 0.889 0.035 | 1.270 0.050 | 0.076 0.0030 |
| 125 4 15/16, 5 | 22228 | 0.160 0.0063 | 0.201 0.0079 | 0.064 0.0025 | 0.089 0.0035 | 0.889 0.035 | 1.270 0.050 | 0.076 0.0030 |
| 135, 140 5 3/8, 5 7/16, 5 1/2 | 23132 | 0.180 0.0071 | 0.231 0.0091 | 0.076 0.0030 | 0.102 0.0040 | 1.255 0.04939 | 1.671 0.06578 | 0.076 0.0030 |
| 150 5 13/16, 5 7/8, 5 15/16, 6 | 23134 | 0.201 0.0079 | 0.259 0.0102 | 0.076 0.0030 | 0.114 0.0045 | 1.255 0.04939 | 1.816 0.07150 | 0.089 0.0035 |
| 160 6 5/16, 6 3/8, 6 7/16, 6 1/2 | 23136 | 0.201 0.0079 | 0.259 0.0102 | 0.076 0.0030 | 0.114 0.0045 | 1.255 0.04939 | 1.816 0.07150 | 0.089 0.0035 |
| 170 6 13/16, 6 7/8, 6 15/16, 7 | 23138 | 0.221 0.0087 | 0.290 0.0114 | 0.089 0.0035 | 0.127 0.0050 | 1.539 0.06061 | 2.090 0.08228 | 0.102 0.0040 |
| 180 7 1/8, 7 3/16, 7 1/4 | 23140 | 0.221 0.0087 | 0.290 0.0114 | 0.089 0.0035 | 0.127 0.0050 | 1.539 0.06061 | 2.090 0.08228 | 0.102 0.0040 |
| 200 7 13/16, 7 7/8, 7 15/16, 8 | 23144 | 0.249 0.0098 | 0.320 0.0126 | 0.102 0.0040 | 0.140 0.0055 | 1.671 0.06578 | 2.232 0.08789 | 0.114 0.0045 |
| 220 8 7/16, 8 1/2, 8 15/16, 9 | 23148 | 0.269 0.0106 | 0.351 0.0138 | 0.114 0.0045 | 0.152 0.0060 | 1.959 0.07711 | 2.520 0.09922 | 0.114 0.0045 |
| 240 9 7/16, 9 1/2 | 23152 | 0.300 0.0118 | 0.391 0.0154 | 0.114 0.0045 | 0.165 0.0065 | 1.959 0.07711 | 2.794 0.11000 | 0.140 0.0055 |
| 260 9 15/16, 10, 10 7/16, 10 1/2 | 23156 | 0.300 0.0118 | 0.391 0.0154 | 0.114 0.0045 | 0.165 0.0065 | 1.959 0.07711 | 2.794 0.11000 | 0.140 0.0055 |
| 280 10 15/16, 11 | 23160 | 0.330 0.0130 | 0.429 0.0169 | 0.127 0.0050 | 0.178 0.0070 | 2.090 0.08228 | 2.936 0.11561 | 0.152 0.0060 |
| 300 11 7/16, 11 1/2, 11 15/16, 12 | 23164 | 0.361 0.0142 | 0.470 0.0185 | 0.140 0.0055 | 0.191 0.0075 | 2.232 0.08789 | 3.068 0.12078 | 0.165 0.0065 |
| 320 12 7/16, 12 1/2 | 23168 | 0.361 0.0142 | 0.470 0.0185 | 0.140 0.0055 | 0.191 0.0075 | 2.232 0.08789 | 3.068 0.12078 | 0.165 0.0065 |
| 340 12 15/16, 13, 13 7/16, 13 1/2 | 23172 | 0.399 0.0157 | 0.521 0.0205 | 0.152 0.0060 | 0.203 0.0080 | 2.520 0.09922 | 3.356 0.13211 | 0.191 0.0075 |
| 360 13 15/16, 14 | 23176 | 0.399 0.0157 | 0.521 0.0205 | 0.152 0.0060 | 0.203 0.0080 | 2.520 0.09922 | 3.356 0.13211 | 0.191 0.0075 |
| 380 14 15/16, 15 | 23180 | 0.399 0.0157 | 0.521 0.0205 | 0.152 0.0060 | 0.203 0.0080 | 2.520 0.09922 | 3.356 0.13211 | 0.191 0.0075 |

SHAFTING

When installing and using housed unit bearings, all shafting should be straight, clean, free from burrs and within the recommended shaft tolerances in tables 40 and 41. For applications that involve high speed or extreme vibration conditions, we recommend that all shafting be machined to one-half the recommended tolerances below.

SHAFT EXPANSION

Steel expands or contracts 0.0000113 millimeters per millimeter for each degree Celsius (0.0000063 inches per inch for each degree Fahrenheit) relative temperature increase or decrease respectively. Expansion bearings are used to accommodate thermal expansion of steel. Where the shafting and the framework on which the bearings and shafting are mounted are made from

steel, the relative difference in expansion between the shaft and the framework will be minimal. In these conditions, fixed bearings can be used on both ends of the shaft. However, if there is a difference in material between the shaft and the framework, or if the application involves different temperatures from the shaft to the frame, then only one fixed bearing should be used on each shaft. All other bearings on the same shaft should be converted to floating to accommodate thermal expansion of the shaft.

**TABLE 40. V-LOCK, CL AND EC SERIES –
RECOMMENDED SHAFT TOLERANCES**

| Shaft Dia. | Shaft Tolerance |
|--|---------------------------------------|
| mm in. | mm in. |
| 35 1 ⁷ / ₁₆ , 1 ¹ / ₂ | +0.00/-0.025 +0.00/-0.0010 |
| 40, 45 1 ¹ / ₁₆ , 1 ³ / ₄ | +0.00/-0.038 + 0.00/-0.0015 |
| 50 1 ¹⁵ / ₁₆ , 2 | +0.00/-0.038 + 0.00/-0.0015 |
| 55 2 ³ / ₁₆ , 2 ¹ / ₄ | +0.00/-0.038 + 0.00/-0.0015 |
| 60, 65 2 ⁷ / ₁₆ , 2 ¹ / ₂ | +0.00/-0.038 + 0.00/-0.0015 |
| 70, 75 2 ¹ / ₁₆ , 2 ³ / ₄ , 2 ¹⁵ / ₁₆ , 3 | +0.00/-0.051 + 0.00/-0.0020 |
| 80, 85, 90 3 ³ / ₁₆ , 3 ¹ / ₄ , 3 ⁷ / ₁₆ , 3 ¹ / ₂ | +0.00/-0.076 + 0.00/-0.0030 |
| 100 3 ¹ / ₁₆ , 3 ³ / ₄ , 3 ¹⁵ / ₁₆ , 4 | +0.00/-0.076 + 0.00/-0.0030 |
| 110, 115 4 ⁷ / ₁₆ , 4 ¹ / ₂ | +0.00/-0.127 + 0.00/-0.0050 |
| 125, 130 4 ¹⁵ / ₁₆ , 5 | +0.00/-0.127 + 0.00/-0.0050 |
| 140, 150 5 ⁷ / ₁₆ , 5 ¹ / ₂ , 5 ¹⁵ / ₁₆ , 6 | +0.00/-0.127 + 0.00/-0.0050 |
| 170, 180 6 ⁷ / ₁₆ , 6 ¹ / ₂ , 6 ¹⁵ / ₁₆ , 7 | +0.00/-0.127 + 0.00/-0.0050 |

SHAFT TOLERANCES

TABLE 41. TA/DV TAA/DVV RECOMMENDED SHAFT TOLERANCES

| Shaft Dia. | | Shaft Tolerance | | Shaft Dia. | | Shaft Tolerance | |
|----------------|-----|---------------------|-----|-------------------------------|-----|---------------------|-----|
| mm | in. | mm | in. | mm | in. | mm | in. |
| 40 | | +0.00/-0.025 | | 135, 140 | | +0.00/-0.127 | |
| 1 7/16, 1 1/2 | | +0.00/-0.0010 | | 5 3/8, 5 7/16, 5 1/2 | | +0.00/-0.0050 | |
| 45 | | +0.00/-0.051 | | 150 | | +0.00/-0.127 | |
| 1 11/16, 1 3/4 | | +0.00/-0.0020 | | 5 13/16, 5 7/8, 5 15/16, 6 | | +0.00/-0.0050 | |
| 50 | | +0.00/-0.076 | | 160 | | +0.00/-0.127 | |
| 1 15/16, 2 | | +0.00/-0.0030 | | 6 5/16, 6 3/8, 6 7/16, 6 1/2 | | +0.00/-0.0050 | |
| 55 | | +0.00/-0.076 | | 170 | | +0.00/-0.127 | |
| — | | — | | 6 13/16, 6 7/8, 6 15/16, 7 | | +0.00/-0.0050 | |
| 60 | | +0.00/-0.076 | | 180 | | +0.00/-0.127 | |
| 2 3/16, 2 1/4 | | +0.00/-0.0030 | | 7 1/8, 7 3/16, 7 1/4 | | +0.00/-0.0050 | |
| 65 | | +0.00/-0.089 | | 200 | | +0.00/-0.127 | |
| 2 7/16, 2 1/2 | | +0.00/-0.0035 | | 7 13/16, 7 7/8, 7 15/16, 8 | | +0.00/-0.0050 | |
| 70 | | +0.00/-0.102 | | 220 | | +0.00/-0.152 | |
| 2 11/16, 2 3/4 | | +0.00/-0.0040 | | 8 7/16, 8 1/2, 8 15/16, 9 | | +0.00/-0.0060 | |
| 75 | | +0.00/-0.102 | | 240 | | +0.00/-0.152 | |
| 2 15/16, 3 | | +0.00/-0.0040 | | 9 7/16, 9 1/2 | | +0.00/-0.0060 | |
| 80 | | +0.00/-0.102 | | 260 | | +0.00/-0.152 | |
| 3 3/16, 3 1/4 | | +0.00/-0.0040 | | 9 15/16, 10, 10 7/16, 10 1/2 | | +0.00/-0.0060 | |
| 85 | | +0.00/-0.102 | | 280 | | +0.00/-0.178 | |
| — | | — | | 10 15/16, 11 | | +0.00/-0.0070 | |
| 90 | | +0.00/-0.102 | | 300 | | +0.00/-0.178 | |
| 3 7/16, 3 1/2 | | +0.00/-0.0040 | | 11 7/16, 11 1/2, 11 15/16, 12 | | +0.00/-0.0070 | |
| 100 | | +0.00/-0.102 | | 320 | | +0.00/-0.203 | |
| 3 15/16, 4 | | +0.00/-0.0040 | | 12 7/16, 12 1/2 | | +0.00/-0.0080 | |
| 110 | | +0.00/-0.102 | | 340 | | +0.00/-0.203 | |
| 4 3/16, 4 1/4 | | +0.00/-0.0040 | | 12 15/16, 13, 13 7/16, 13 1/2 | | +0.00/-0.0080 | |
| 115 | | +0.00/-0.102 | | 360 | | +0.00/-0.203 | |
| 4 7/16, 4 1/2 | | +0.00/-0.0040 | | 13 15/16, 14 | | +0.00/-0.0080 | |
| 125 | | +0.00/-0.127 | | 380 | | +0.00/-0.203 | |
| 4 15/16, 5 | | +0.00/-0.0050 | | 14 15/16, 15 | | +0.00/-0.0080 | |

CONVERSION FROM FIXED TO FLOATING

Housed unit bearings are easily converted from fixed to floating in the field (see the appropriate installation guide in this catalog for instructions). The following table will help you determine the amount of float for each bearing based on the number of revolutions the external housing nut is backed out.

TABLE 42. AMOUNT OF FLOAT PER ONE ROTATION OF EXTERNAL HOUSING NUT

| Bearing Number | Float | Bearing Number | Float | Bearing Number | Float |
|----------------|----------------|----------------|----------------|----------------|------------|
| | mm in. | | mm in. | | mm in. |
| 22208 | 1.270 0.050 | 22220 | 2.108 0.083 | 23144 | 2 0.079 |
| 22209 | 1.270 0.050 | 22222 | 2.108 0.083 | 23148 | 2 0.079 |
| 22210 | 1.270 0.050 | 22224 | 2.108 0.083 | 23152 | 2 0.079 |
| 22211 | 1.270 0.050 | 22226 | 2.108 0.083 | 23156 | 2 0.079 |
| 22212 | 1.270 0.050 | 22228 | 2.108 0.083 | 23160 | 2 0.079 |
| 22213 | 2.108 0.083 | 23230 | 2.108 0.083 | 23164 | 2 0.079 |
| 22214 | 2.108 0.083 | 23234 | 2.108 0.083 | 23168 | 2 0.079 |
| 22215 | 2.108 0.083 | 23132 | 2 0.079 | 23172 | 2 0.079 |
| 22216 | 2.108 0.083 | 23134 | 2 0.079 | 23176 | 2 0.079 |
| 22217 | 2.108 0.083 | 23136 | 2 0.079 | 23180 | 2 0.079 |
| 22218 | 2.108 0.083 | 23138 | 2 0.079 | - | - |
| 22219 | 2.108 0.083 | 23140 | 2 0.079 | - | - |

LUBRICATION

Timken is dedicated to using the highest quality components in everything we do. This is why we use premium industrial grease in spherical roller bearing solid-block housed units. The lithium-complex extreme-pressure grease combines the benefits of wide operating temperatures and broad compatibility. This grease offers excellent thermal stability through temperatures ranging from -34° C to 177° C (-30° F to 350° F). When dealing with temperatures above 149° C (300° F), consult your Timken engineer for optional grease recommendations. Application-specific lubrication options are also available ranging from Timken Food Safe Grease (aluminum-complex) to Timken Mill grease (calcium-sulfonate) along with many others.

MISALIGNMENT

All spherical roller bearing housed units utilize self-aligning double-row spherical roller bearings. Because of this, the housed unit accommodates angular misalignment up to 1.5 degrees. The life performance of our housed unit is not reduced while under misalignment conditions within these guidelines. It will accept both radial and thrust loads under static, oscillatory or dynamic load conditions.

TABLE 43. MISALIGNMENT SCALE AT 1.5 DEGREES

| A | B |
|------------|-----------------|
| m ft. | mm in. |
| 0.305 1 | 7.981 0.314 |
| 1.524 5 | 39.905 1.570 |

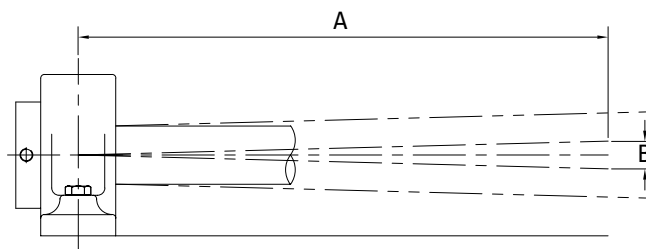


Fig. 35. Misalignment.

INSTALLATION GUIDES

V-LOCK SERIES

Timken® solid-block housed unit V-Lock bearings are easy to install and remove because of their unique adapters.

Please complete the following steps to install and/or remove Timken steel housed unit V-Lock bearings. Refer to fig. 36.

- Ensure that the shaft is clean, free from nicks and burrs, straight and of proper diameter. See table 45 for recommended shaft tolerances. The housed unit should not be mounted on a worn section of the shaft. Using shafts with hardness greater than HRC 45 will reduce the effectiveness of locking devices.
- If using an open-end cover, slide the open-end cover/seal combination into position on the shaft.
- Remove the wedge assembly from the sleeve by unscrewing the wedge nut. See fig. 36.
- Clean oil off of the sleeve and wedge.
- Apply a thin oil film to the shaft only.
 - For **QV** single-nut housed units:
 - Slide the sleeve, non-threaded end first, into position on the shaft.
 - For **QVV** double-nut housed units:
 - Make sure the sleeve nut is flush with the end of the sleeve.
 - Slide the sleeve/nut assembly, nut end first, into position on the shaft.

- Slide the housed unit into place over the sleeve.
- Loosely install the housed unit mounting bolts. Check the housed unit alignment. Verify that the mounting surfaces are in the same flat plane to help achieve good alignment. If shimming is required to minimize misalignment, use full shims across the entire housing base where possible (fig. 37). Washers should be properly sized to bolt diameter and should not be an SAE grade, which is smaller.
- Seat the sleeve as best as possible into the mounted unit.
- Tighten the wedge assembly by turning the wedge nut clockwise until tight. Please note that it is designed to prevent overtightening.
- If installing a double-nut housed unit, tighten the sleeve assembly by turning the sleeve nut clockwise until snug.
- Tighten both the wedge nut and sleeve nut set screws alternately according to fig. 36.
- Install the housed unit mounting bolts. Check the housed unit alignment. Verify that the mounting surfaces are in the same flat plane to achieve good alignment. If shimming is required to minimize misalignment, use full shims across the entire housing base where possible (fig. 37). The bolts then need to be alternately torqued securely to their mounting supports.
- Tighten the housing mounting bolts.

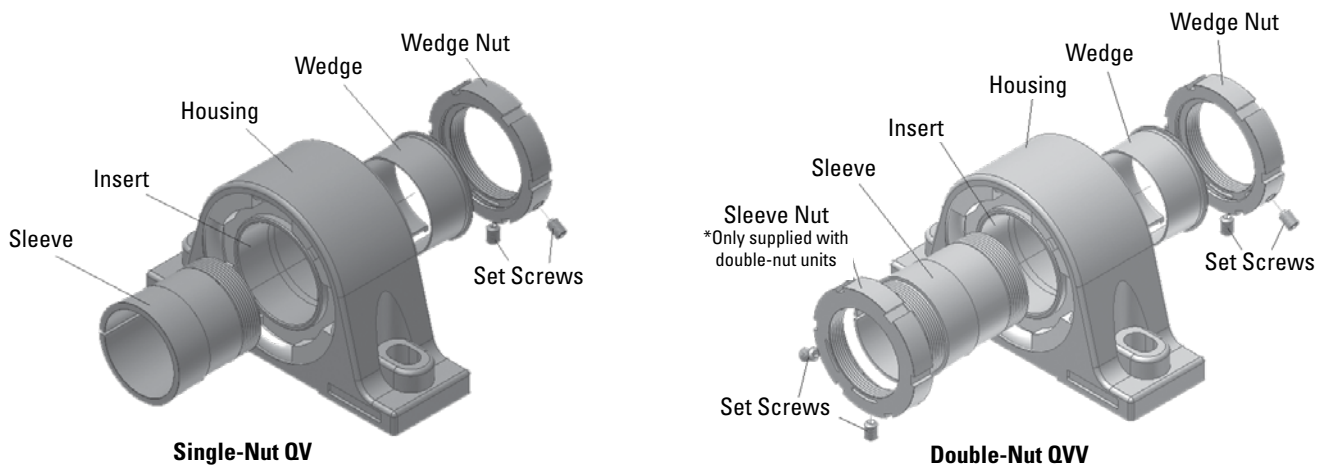


Fig. 36. V-Lock insert components.

TABLE 44. SET SCREW TORQUE VALUES

| Shaft Dia. | Bearing No. | Set Screw Size | Torque |
|---------------------------------|----------------|----------------------------------|--------------------|
| mm in. | | mm in. | Nm in.-lbs. |
| 50-90 1 15/16 - 3 1/2 | SLV11 to SLV20 | M10 X 1.5 3/8-24 TPI | 32.8 290 |
| 100 3 11/16 - 4 | SLV22 | M12 X 1.75 7/16-20 TPI | 47.5 420 |
| 110-130 4 7/16 - 5 | SLV24 to SLV28 | M12 X 1.75 1/2-20 TPI | 70.1 620 |

If using covers:

- Make sure the mating surface of the cover and retaining nuts are clean and dry.
 - Urethane cover: Slightly roughen the mating surface of the cover, place a 3 mm – 6 mm (1/8 in. – 1/4 in.) bead of polyurethane adhesive sealant on the roughened surface.
 - Steel cover: Place a 3 mm – 6 mm (1/8 in. – 1/4 in.) bead of silicone adhesive sealant on the mating surface of the cover.
- Align the cover mounting holes with the mounting holes on the retaining housing nut (make sure that the grease fitting on the cover is accessible when doing so).
- Apply and tighten the cover mounting hardware.

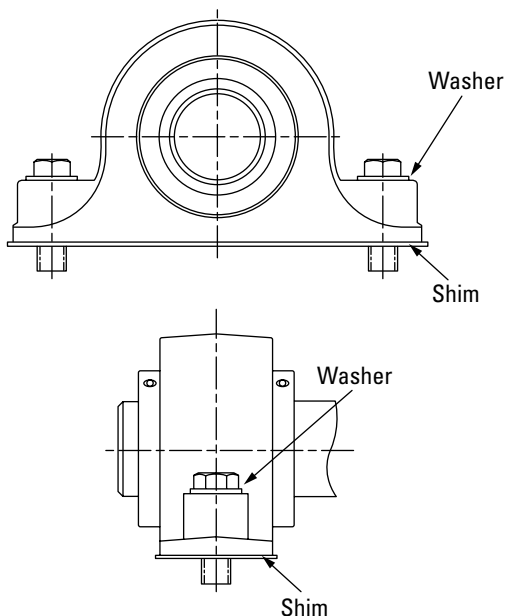


Fig. 37. Use washers and full shims.

REMOVAL

- Remove covers, if applicable, by removing cover hardware and disengaging the cover from the housed unit retaining nut.
- Loosen the set screws on the wedge nut.
- Turn the wedge nut counterclockwise to remove the wedge from the locked position.
- Completely remove the wedge/wedge nut assembly.
 - For **QV** housed units:
 - Remove the bearing and sleeve from the shaft.
 - For **QVV** housed units:
 - Loosen the set screws on the sleeve nut.
 - Turn the sleeve nut clockwise to un-seat the sleeve.
 - Remove the bearing and sleeve/sleeve nut from the shaft.

TABLE 45. RECOMMENDED SHAFT TOLERANCES

| Shaft Dia. | Bearing No. | Tolerance |
|---|----------------|--------------------------------------|
| mm in. | | mm in. |
| 50 1 15/16, 2 | 22211 | +0.00/-0.038 +0.00/-0.0015 |
| 55 2 3/16, 2 1/4 | 22212 22213 | |
| 60, 65 2 7/16, 2 1/2 | 22214 22215 | |
| 70, 75 2 11/16, 2 3/4, 2 15/16, 3 | 22216 22217 | +0.00/-0.051 +0.00/-0.0020 |
| 80, 85, 90 3 3/16, 3 1/4, 3 7/16, 3 1/2 | 22219 22220 | +0.00/-0.076 +0.00/-0.0030 |
| 100 3 11/16, 3 15/16, 4 | 22222 | +0.00/-0.076 +0.00/-0.0030 |
| 110, 115 4 7/16, 4 1/2 | 22224 22226 | +0.00/-0.127 +0.00/-0.0050 |
| 125, 130 4 15/16, 5 | 22228 | |

HOW TO CONVERT A SOLID-BLOCK HOUSED UNIT FROM FIXED TO EXPANSION (FLOATING)

Flange Cartridge and Flange Block

- Make a reference mark on the housing and retaining nut.
- Loosen the Nylon-tipped set screw that locks the retaining nut in place.
- Loosen the retaining nut by tapping it with a hammer and punch, rotating the retaining nut counterclockwise one complete revolution.
- Tighten the Nylon-tipped set screw.

Pillow Block

- Decide the amount and direction of expansion that's needed. If unidirectional expansion is required, follow the directions outlined in the previous page for flange housed units on the nut that is on the side you want the expansion.
- If multi-directional expansion is required, follow the directions outlined in the previous section for both nuts on flange housed units.

NOTE

When converting a solid-block housed unit bearing from fixed to expansion, it is imperative that the unit that is going to be converted is correctly oriented. Since the insert in a steel housed unit flange bearing is held against either a shoulder or snap ring opposite the housing retaining nut, a flange bearing that has been converted to expansion can only float in the direction of the retaining nut. Based on this, the retaining nut must be on the side of the housing opposite the fixed bearing.

HOW TO CONVERT A SOLID-BLOCK HOUSED UNIT FROM EXPANSION (FLOATING) TO FIXED

Flange Cartridge and Flange Block

- Loosen the Nylon-tipped set screw that locks the retaining nut in place.
- Tighten the retaining nut by tapping it with a hammer and punch, rotating the retaining nut clockwise until it's tight. It is not possible to overtighten the retaining nut.
- Tighten the Nylon-tipped set screw.

Pillow Block

- Follow the directions above for flange housed units on both nuts on either side of the housing.

NOTE

When converting a solid-block housed unit from expansion to fixed on a mounted bearing, the locking-collar set screws must be released to allow the insert to move both in the housing and on the shaft.



WARNING

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

Proper maintenance and handling practices are critical. Always follow installation instructions and maintain proper lubrication.

Overheated bearings can ignite explosive atmospheres. Special care must be taken to properly select, install, maintain, and lubricate housed unit bearings that are used in or near atmospheres that may contain explosive levels of combustible gases or accumulations of dust such as from grain, coal, or other combustible materials. Consult your equipment designer or supplier for installation and maintenance instructions.

If hammer and bar are used for installation or removal of a part, use a mild steel bar (e.g., 1010 or 1020 grade). Mild steel bars are less likely to cause release of high speed fragments from the hammer or bar or the part being installed or removed.



CAUTION

Failure to follow these cautions may result in property damage.

Do not use damaged housed units.

LUBRICATION

This information is to aid in the proper lubrication of Timken spherical roller bearing solid-block housed units for the majority of applications.

Housed units have been factory-prelubricated with an NLGI No. 2 lithium-complex, extreme-pressure synthetic grease that combines the benefits of wide operating temperatures and broad compatibility with varied materials. This grease offers excellent thermal stability through temperatures ranging from -40° C to 177° C (-40° F to 350° F). Housed units should be relubricated with this grease or one that is compatible and made for roller bearings. It is vital that the greases used are compatible. Please consult

with your Timken engineer for the grease specifications if the use of a grease other than the grease mentioned above is needed.

Normal service is considered as operation in a clean, dry environment at temperatures between -34° C to +82° C (-30° F to +180° F). If service is beyond normal conditions due to speed, temperature, or exposure to moisture, dirt or corrosive chemicals, more frequent relubrication may be necessary. For extreme conditions or conditions in which special chemicals are used, consult with your Timken engineer.

After extended storage or periods when the housed unit is not in operation, fresh grease should be added.

It's important to have the right amount of lubrication, because it affects the housed unit bearing operating temperature as well. An inadequate amount of grease could lead to higher operating temperatures due to inadequate lubrication film thickness. Excessive grease also will lead to higher operating temperatures due to grease churning, which can cause bearing overheating. It is best to observe the bearing and its temperature and adjust the lubrication as needed. If necessary, use the purge valve or seals that purge to reduce the amount of grease.

NOTE

Please check with the manufacturer of your grease delivery system for specific information.

RELUBRICATION

Adequate lubrication is an essential element to the housed unit bearing life. Use table 46 as a suggested initial point of reference. Relubrication frequency and quantity intervals are best determined through experience for each application, based on types of service, which may differ from the suggestions in the table.

When the housed unit is not in operation for an extended period of time, grease should be added to prevent corrosion.

Table 46 shows general lubrication suggested starting points only. Please read the entire installation instructions prior to using these tables. Applications should be regularly reviewed and lubrication amounts and intervals modified as needed to ensure best results.

TABLE 46. RELUBRICATION INTERVALS

| Shaft Diameter | Bearing No. | Initial Weight | Relubrication Weight | Relubrication Interval (Hours of Service based on RPM and Temperature deg. F) | | | | | | | | | | | |
|---|-------------|----------------------|----------------------|---|-------|---------|-------|---------|-------|----------|-------|----------|-------|----------|-------|
| | | | | 100 RPM | | 250 RPM | | 500 RPM | | 1000 RPM | | 2000 RPM | | 3000 RPM | |
| | | | | <160° | >160° | <160° | >160° | <160° | >160° | <160° | >160° | <160° | >160° | <160° | >160° |
| mm in. | | g oz. | g oz. | | | | | | | | | | | | |
| 50 1 15/16, 2 | 22211 | 28.4 1 | 8.5 0.3 | 1200 | 600 | 800 | 400 | 440 | 220 | 160 | 80 | 100 | 50 | 60 | 30 |
| 55 2 3/16, 2 1/4 | 22212 | 34.0 1.2 | 8.5 0.3 | 1150 | 580 | 750 | 380 | 400 | 200 | 140 | 70 | 90 | 50 | 50 | 20 |
| | 22213 | 36.9 1.3 | 11.3 0.4 | 1130 | 570 | 740 | 370 | 380 | 190 | 130 | 65 | 85 | 45 | 45 | 20 |
| 60, 65 2 7/16, 2 1/2 | 22214 | 39.7 1.4 | 11.3 0.4 | 1120 | 560 | 720 | 360 | 360 | 180 | 120 | 60 | 80 | 40 | 40 | 20 |
| | 22215 | 56.7 2 | 14.2 0.5 | 1080 | 540 | 700 | 350 | 350 | 175 | 110 | 55 | 70 | 35 | | |
| 70, 75 2 11/16, 2 3/4 2 15/16, 3 | 22216 | 76.5 2.7 | 19.9 0.7 | 1040 | 520 | 680 | 340 | 340 | 170 | 100 | 50 | 60 | 30 | | |
| | 22217 | 96.4 3.4 | 25.5 0.9 | 1000 | 500 | 640 | 320 | 320 | 160 | 100 | 50 | 60 | 30 | | |
| 80, 85, 90 3 3/16, 3 1/4 3 7/16, 3 1/2 | 22219 | 104.9 3.7 | 25.5 0.9 | 960 | 480 | 600 | 300 | 300 | 150 | 80 | 40 | 40 | 20 | | |
| | 22220 | 184.3 6.5 | 45.4 1.6 | 840 | 420 | 520 | 260 | 240 | 120 | 70 | 35 | 30 | 18 | | |
| 100 3 11/16, 3 3/4 3 15/16, 4 | 22222 | 209.8 7.4 | 53.9 1.9 | 680 | 340 | 440 | 220 | 200 | 100 | 60 | 30 | 20 | 16 | | |
| 110, 115 4 7/16, 4 1/2 | 22224 | 260.8 9.2 | 68.0 2.4 | 640 | 320 | 400 | 200 | 180 | 90 | 50 | 25 | | | | |
| | 22226 | 300.5 10.6 | 76.5 2.7 | 560 | 280 | 360 | 180 | 160 | 80 | | | | | | |
| 125, 130 4 15/16, 5 | 22228 | 396.9 14 | 99.2 3.5 | 520 | 260 | 340 | 170 | 140 | 75 | | | | | | |

DISCLAIMER: 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.

CL SERIES

Please complete the following steps to install Timken solid-block housed unit CL series bearings.

- Ensure that the shaft is clean, free from nicks and burrs, straight and of proper diameter. See table 47 for recommended shaft tolerances. The housed unit should not be mounted on a worn section of the shaft. Using shafts with hardness greater than HRC 45 will reduce the effectiveness of locking devices.
- If using an open-end cover, slide the open-end cover/seal combination into position on the shaft.
- Apply a thin oil film to the shaft and bearing bore.
- Slide the housed unit into position on the shaft.
- Install the housed unit mounting bolts. Check the housed unit alignment. Verify mounting surfaces are in the same flat plane to help achieve good alignment. If shimming is required to minimize misalignment, use full shims across the entire housing base where possible (fig. 39). The bolts then need to be alternately torqued securely to their mounting supports.
- Tighten set screws alternately as per table 48. Set screws in multiple units should be aligned to each other (fig. 38).

If using covers:

- Make sure the mating surface of the cover and retaining nuts are clean and dry.
 - Urethane cover: slightly roughen the mating surface of the cover, place a 3 mm – 6 mm (1/8 in. – 1/4 in.) bead of polyurethane adhesive sealant on the roughened surface.
 - Steel cover: place a 3 mm – 6 mm (1/8 in. – 1/4 in.) bead of silicone adhesive sealant on the mating surface of the cover.
- Align the cover mounting holes with the mounting holes on the retaining housing nut (make sure that the grease fitting on the cover is accessible when doing so).
- Apply and tighten the cover mounting hardware.

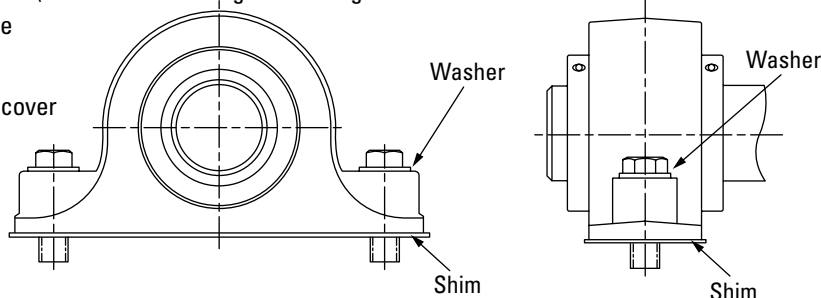


Fig. 39. Use washers and full shims.

TABLE 47. RECOMMENDED SHAFT TOLERANCES

| Shaft Dia. | Bearing No. | Tolerance |
|--|-------------|-------------------------------|
| mm in. | | mm in. |
| 35 1 7/16, 1 1/2 | 22208 | +0.00/-0.025 +0.00/0.0010 |
| 40, 45 1 1/16, 1 3/4 | 22209 | +0.00/-0.038 +0.00/0.0015 |
| 50 1 15/16, 2 | 22210 | +0.00/-0.038 +0.00/-0.0015 |
| 55 2 3/16, 2 1/4 | 22211 | +0.00/-0.038 +0.00/-0.0015 |
| 60, 65 2 7/16, 2 1/2 | 22213 | +0.00/-0.038 +0.00/-0.0015 |
| 70, 75 2 11/16, 2 3/4 2 15/16, 3 | 22215 | +0.00/-0.051 +0.00/-0.0020 |
| 80, 85, 90 3 3/16, 3 1/4 3 7/16, 3 1/2 | 22218 | +0.00/-0.076 +0.00/-0.0030 |
| 100 3 15/16, 4 | 22220 | +0.00/-0.076 +0.00/-0.0030 |
| 110, 115 4 7/16, 4 1/2 | 22222 | +0.00/-0.127 +0.00/-0.0050 |
| 125, 130 4 15/16, 5 | 22226 | +0.00/-0.127 +0.00/-0.0050 |

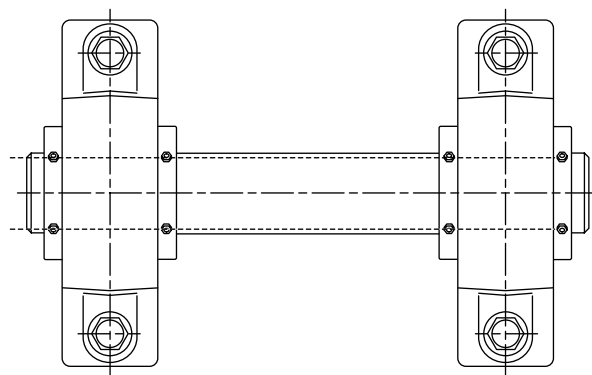


Fig. 38. Line up set screws in multiple units.

TABLE 48. SET SCREW TORQUE VALUES

| Shaft Dia. | Bearing No. | Set Screw Size | Torque |
|---|-------------|-----------------------------------|----------------------|
| mm in. | | mm in. | Nm lbs. |
| 35 1 7/16, 1 1/2 | 22208 | M10 X 1.5 3/8 - 24 TPI | 32.8 290 |
| 40, 45 1 11/16, 1 3/4 | 22209 | M10 X 1.5 3/8 - 24 TPI | 32.8 290 |
| 50 1 15/16, 2 | 22210 | M10 X 1.5 3/8 - 24 TPI | 32.8 290 |
| 55 2 3/16, 2 1/4 | 22211 | M10 X 1.5 3/8 - 24 TPI | 32.8 290 |
| 60, 65 2 7/16, 2 1/2 | 22213 | M12 X 1.75 1/2 - 20 TPI | 70.1 620 |
| 70, 75 2 11/16, 2 3/4 2 15/16, 3 | 22215 | M12 X 1.75 1/2 - 20 TPI | 70.1 620 |
| 80, 85, 90 3 3/16, 3 1/4 3 7/16, 3 1/2 | 22218 | M12 X 1.75 1/2 - 20 TPI | 70.1 620 |
| 100 3 15/16, 4 | 22220 | M16 X 2 5/8 - 18 TPI | 149.7 1325 |
| 110, 115 4 7/16, 4 1/2 | 22222 | M16 X 2 5/8 - 18 TPI | 149.7 1325 |
| 125, 130 4 15/16, 5 | 22226 | M16 X 2 5/8 - 18 TPI | 149.7 1325 |

LUBRICATION

This information is to aid in the proper lubrication of Timken spherical roller bearing solid-block housed units for the majority of applications.

Housed units have been factory-prelubricated with an NLGI No. 2 lithium-complex, extreme pressure synthetic grease that combines the benefits of wide operating temperatures and broad compatibility with varied materials. This grease offers excellent thermal stability through temperatures ranging from -40° C to 177° C (-40° F to 350° F). Housed units should be relubricated with this grease or one that is compatible and made for roller bearings. It is vital that the greases used are compatible. Please consult with your Timken engineer for the grease specifications if the use of a grease other than the grease mentioned above is needed.

Normal service is considered as operation in a clean, dry environment at temperatures between -34° C to +82° C (-30° F to +180° F). If service is beyond normal conditions due to speed, temperature, or exposure to moisture, dirt or corrosive chemicals, periodic relubrication may be necessary. For extreme conditions or conditions in which special chemicals are used, consult with your Timken engineer.

After extended storage or periods when the housed unit is not in operation, fresh grease should be added.

It is important to have the right amount of lubrication, because it affects the housed unit bearing operating temperature as well. An inadequate amount of grease could lead to higher operating temperatures due to inadequate lubrication film thickness. Excessive grease also will lead to higher operating temperatures due to grease churning, which can cause bearing overheating. It is best to observe the bearing and its temperature and adjust the lubrication as needed. If necessary, use the purge valve or seals that purge to reduce the amount of grease.

NOTE

Please check with the manufacturer of your grease delivery system for specific information.

WARNING

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

Proper maintenance and handling practices are critical. Always follow installation instructions and maintain proper lubrication.

Overheated bearings can ignite explosive atmospheres. Special care must be taken to properly select, install, maintain, and lubricate housed unit bearings that are used in or near atmospheres that may contain explosive levels of combustible gases or accumulations of dust such as from grain, coal, or other combustible materials. Consult your equipment designer or supplier for installation and maintenance instructions.

If hammer and bar are used for installation or removal of a part, use a mild steel bar (e.g., 1010 or 1020 grade). Mild steel bars are less likely to cause release of high speed fragments from the hammer or bar or the part being installed or removed.

CAUTION

Failure to follow these cautions may result in property damage.

Do not use damaged housed units.

RELUBRICATION

Adequate lubrication is an essential element to the housed unit bearing life. Use table 49 as a suggested initial point of reference. Relubrication frequency and quantity intervals are best determined through experience for each application based on types of service, which may differ from the suggestions in the table.

When the housed unit is not in operation for an extended period of time, grease should be added to prevent corrosion.

Table 49 shows general lubrication suggested starting points only. Please read the entire installation instructions prior to using these tables. Applications should be regularly reviewed and lubrication amounts and intervals modified as needed to ensure the best results.

TABLE 49. RELUBRICATION INTERVALS

| Shaft Dia. | Bearing No. | Initial Weight | Relubrication Weight | Relubrication Interval (Hours of Service based on RPM and Temperature deg. F) | | | | | | | | | | | |
|---|-------------|----------------------|----------------------|---|-------|---------|-------|---------|-------|----------|-------|----------|-------|----------|-------|
| | | | | 100 RPM | | 250 RPM | | 500 RPM | | 1000 RPM | | 2000 RPM | | 3000 RPM | |
| | | | | <160° | >160° | <160° | >160° | <160° | >160° | <160° | >160° | <160° | >160° | <160° | >160° |
| mm in. | | g oz. | g oz. | | | | | | | | | | | | |
| 35 1 7/16, 1 1/2 | 22208 | 14.2 0.5 | 2.4 0.1 | 2200 | 1000 | 1400 | 700 | 1000 | 500 | 240 | 120 | 120 | 60 | 40 | 20 |
| 40, 45 1 11/16, 1 3/4 | 22209 | 19.9 0.7 | 5.7 0.2 | 2000 | 1000 | 1200 | 600 | 800 | 400 | 320 | 160 | 160 | 80 | 80 | 40 |
| 50 1 15/16, 2 | 22210 | 22.7 0.8 | 5.7 0.2 | 1600 | 800 | 1000 | 500 | 640 | 320 | 240 | 120 | 120 | 60 | 60 | 30 |
| 55 2 3/16, 2 1/4 | 22211 | 28.4 1 | 8.5 0.3 | 1200 | 600 | 800 | 400 | 440 | 220 | 160 | 80 | 100 | 50 | 60 | 30 |
| 60, 65 2 7/16, 2 1/2 | 22213 | 39.7 1.4 | 11.3 0.4 | 1120 | 560 | 720 | 360 | 360 | 180 | 120 | 60 | 80 | 40 | 40 | 20 |
| 70, 75 2 11/16, 2 3/4 2 15/16, 3 | 22215 | 76.5 2.7 | 19.4 0.7 | 1040 | 520 | 680 | 340 | 340 | 170 | 100 | 50 | 60 | 30 | | |
| 80, 85, 90 3 3/16, 3 1/4 3 7/16, 3 1/2 | 22218 | 104.9 3.7 | 25.5 0.9 | 960 | 480 | 600 | 300 | 300 | 150 | 80 | 40 | 40 | 20 | | |
| 100 3 15/16, 4 | 22220 | 184.3 6.5 | 45.4 1.6 | 840 | 420 | 520 | 260 | 240 | 120 | 60 | 30 | 20 | 16 | | |
| 110, 115 4 7/16, 4 1/2 | 22222 | 209.8 7.4 | 53.9 1.9 | 680 | 340 | 440 | 220 | 200 | 100 | 60 | 30 | 20 | 16 | | |
| 125, 130 4 15/16, 5 | 22226 | 300.5 10.6 | 76.5 2.7 | 560 | 280 | 360 | 180 | 160 | 80 | | | | | | |

DISCLAIMER: 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.

HOW TO CONVERT A SOLID-BLOCK HOUSED UNIT FROM FIXED TO EXPANSION (FLOATING)

Flange Cartridge and Flange Block

- Make a reference mark on the housing and retaining nut.
- Loosen the Nylon-tipped set screw that locks the retaining nut in place.
- Loosen the retaining nut by tapping it with a hammer and punch, rotating the retaining nut counterclockwise one complete revolution.
- Tighten the Nylon-tipped set screw.

NOTE

When converting a solid-block housed unit bearing from fixed to expansion, it is imperative that the unit that is going to be converted is correctly oriented. Since the insert in a steel housed unit flange bearing is held against either a shoulder or snap ring opposite the housing retaining nut, a flange bearing that has been converted to expansion can only float in the direction of the retaining nut. Based on this, the retaining nut must be on the side of the housing opposite the fixed bearing.

Pillow Block

- Decide the amount and direction of expansion that's needed. If unidirectional expansion is required, follow the directions outlined above for flange bearings on the nut that is on the side you want the expansion.
- If multi-directional expansion is required, follow the directions as outlined above for both nuts on flange housed units.

HOW TO CONVERT A SOLID-BLOCK HOUSED UNIT FROM EXPANSION (FLOATING) TO FIXED

Flange Cartridge and Flange Block

- Loosen the Nylon-tipped set screw that locks the retaining nut in place.
- Tighten the retaining nut by tapping it with a hammer and punch, rotating the retaining nut clockwise until it's tight. It is not possible to overtighten the retaining nut.
- Tighten the Nylon-tipped set screw.

Pillow Block

- Follow the directions above for flange bearings on both nuts on either side of the housing.

NOTE

When converting a solid-block housed unit from expansion to fixed on a mounted bearing, the locking-collar set screws must be released to allow the insert to move both in the housing and on the shaft.

EC SERIES

Please complete the following steps to install Timken EC series spherical roller bearing solid-block housed units.

- Ensure that the shaft is clean, free from nicks and burrs, straight and of proper diameter. See table 50 for recommended shaft tolerances. The housed unit should not be mounted on a worn section of the shaft. Using shafts with hardness greater than HRC 45 will reduce the effectiveness of locking devices.
- If using an open-end cover, slide the open-end cover/seal combination into position on the shaft.
- Apply a thin oil film to the shaft and bearing bore.
- Slide the housed unit into position on the shaft.
- Install the housed unit mounting bolts. Check the housed unit alignment. Verify that the mounting surfaces are in the same flat plane to help achieve good alignment. If shimming is required to minimize misalignment, use full shims across the entire housing base where possible (fig. 40). The bolts then need to be alternately torqued securely to their mounting supports.
- Slide the eccentric locking collar along shaft and onto the extended portion of the bearing's inner ring.
- Rotate the eccentric locking collar until it is hand-tight (the direction of rotation does not matter).
- Lock the eccentric locking collar firmly in place by using a spanner wrench or a hammer and drift.
 - When using a hammer and drift, one or two firm, but not too hard, blows will be sufficient due to the shallow eccentric ramp on EC series housed units. Make sure you drive the collar in the same direction in which you hand-tightened it so as to turn it to a tighter position on the bearing's inner ring.
- Tighten the eccentric locking collar set screws alternately as per table 51.

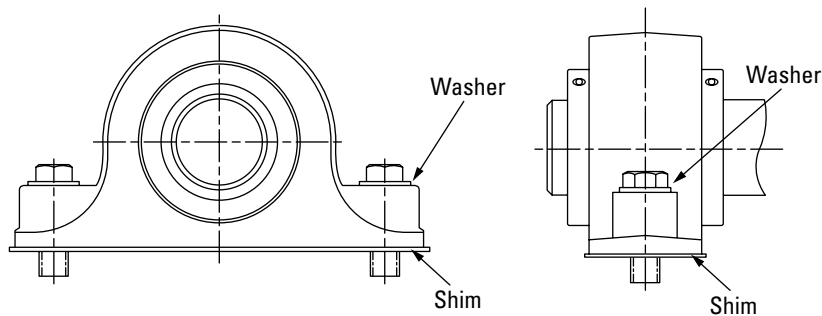


Fig. 40. Use washers and full shims.

If using covers:

- Make sure the mating surface of the cover and retaining nuts are clean and dry.
 - Urethane cover: Slightly roughen the mating surface of the cover, place a 3 mm – 6 mm (1/8 in. – 1/4 in.) bead of polyurethane adhesive sealant on the roughened surface.
 - Steel cover: Place a 3 mm – 6 mm (1/8 in. – 1/4 in.) bead of silicone adhesive sealant on the mating surface of

the cover.

- Align the cover mounting holes with the mounting holes on the retaining housing nut (make sure that the grease fitting on the cover is accessible when doing so).
- Apply and tighten the cover mounting hardware.

TABLE 50. RECOMMENDED SHAFT TOLERANCES

| Shaft Dia. | Bearing No. | Tolerance |
|---|-------------|--------------------------------------|
| mm in. | | mm in. |
| 35 1 7/16, 1 1/2 | 22208 | +0.00/-0.025 +0.00/-0.0010 |
| 40, 45 1 11/16, 1 3/4 | 22209 | +0.00/-0.038 +0.00/-0.0015 |
| 50 1 15/16, 2 | 22210 | +0.00/-0.038 +0.00/-0.0015 |
| 55 2 3/16, 2 1/4 | 22211 | +0.00/-0.038 +0.00/-0.0015 |
| 60, 65 2 7/16, 2 1/2 | 22213 | +0.00/-0.038 +0.00/-0.0015 |
| 70, 75 2 11/16, 2 3/4 2 15/16, 3 | 22215 | +0.00/-0.051 +0.00/-0.0020 |
| 80, 85, 90 3 3/16, 3 1/4 3 7/16, 3 1/2 | 22218 | +0.00/-0.076 +0.00/-0.0030 |
| 100 3 11/16, 3 3/4 3 15/16, 4 | 22220 | +0.00/-0.076 +0.00/-0.0030 |
| 110, 115 4 7/16, 4 1/2 | 22222 | +0.00/-0.127 +0.00/-0.0050 |
| 125, 130 4 15/16, 5 | 22226 | +0.00/-0.127 +0.00/-0.0050 |
| 140, 150 5 7/16, 5 1/2 5 15/16, 6 | 23230 | +0.00/-0.127 +0.00/-0.0050 |
| 170, 180 6 7/16, 6 1/2 6 15/16, 7 | 23234 | +0.00/-0.127 +0.00/-0.0050 |

TABLE 51. SET SCREW TORQUE VALUES

| Shaft Dia. | Bearing No. | Set Screw Size | Torque |
|---|-------------|------------------------------------|----------------------|
| mm in. | | mm in. | Nm lbs. |
| 35 1 7/16, 1 1/2 | 22208 | M8 X 1.25 5/16 - 24 TPI | 18.6 165 |
| 40, 45 1 11/16, 1 3/4 | 22209 | M10 X 1.5 3/8 - 24 TPI | 32.8 290 |
| 50 1 15/16, 2 | 22210 | M10 X 1.5 3/8 - 24 TPI | 32.8 290 |
| 55 2 3/16, 2 1/4 | 22211 | M10 X 1.5 3/8 - 24 TPI | 32.8 290 |
| 60, 65 2 7/16, 2 1/2 | 22213 | M12 X 1.75 7/16 - 20 TPI | 70.1 620 |
| 70, 75 2 11/16, 2 3/4 2 15/16, 3 | 22215 | M12 X 1.75 7/16 - 20 TPI | 70.1 620 |
| 80, 85, 90 3 3/16, 3 1/4 3 7/16, 3 1/2 | 22218 | M12 X 1.75 7/16 - 20 TPI | 70.1 620 |
| 100 3 11/16, 3 3/4 3 15/16, 4 | 22220 | M16 X 2 5/8 - 18 TPI | 149.7 1325 |
| 110, 115 4 7/16, 4 1/2 | 22222 | M16 X 2 5/8 - 18 TPI | 149.7 1325 |
| 125, 130 4 15/16, 5 | 22226 | M16 X 2 5/8 - 18 TPI | 149.7 1325 |
| 140, 150 5 7/16, 5 1/2 5 15/16, 6 | 23230 | M16 X 2 5/8 - 18 TPI | 149.7 1325 |
| 170, 180 6 7/16, 6 1/2 6 15/16, 7 | 23234 | M16 X 2 5/8 - 18 TPI | 149.7 1325 |

LUBRICATION

This information is to aid in the proper lubrication of Timken spherical roller bearing solid-block housed units for the majority of applications.

Housed units have been factory-prelubricated with an NLGI No. 2 lithium-complex, extreme-pressure synthetic grease that combines the benefits of wide operating temperatures and broad compatibility with varied materials. This grease offers excellent thermal stability through temperatures ranging from -40° C to 177° C (-40° F to 350° F). Housed units should be relubricated with this grease or one that is compatible and made for roller bearings. It is vital that the greases used are compatible. Please consult with your Timken engineer for the grease specifications if the use of a grease other than the grease mentioned above is needed.

Normal service is considered as operation in a clean, dry environment at temperatures between -34° C to +82° C (-30° F to +180° F). If service is beyond normal conditions due to speed, temperature, or exposure to moisture, dirt or corrosive chemicals, periodic relubrication may be necessary. For extreme conditions or conditions in which special chemicals are used, consult with your Timken engineer.

After extended storage or periods when the housed unit is not in operation, fresh grease should be added.

It's important to have the right amount of lubrication, because it affects the housed unit bearing operating temperature as well. An inadequate amount of grease could lead to higher operating temperatures due to inadequate lubrication film thickness. Excessive grease also will lead to higher operating temperatures due to grease churning, which can cause bearing overheating. It is best to observe the bearing and its temperature and adjust the lubrication as needed. If necessary, use the purge valve or seals that purge to reduce the amount of grease.

NOTE

Please check with the manufacturer of your grease delivery system for specific information.

RELUBRICATION

Adequate lubrication is an essential element to the housed unit bearing life. Use table 52 as a suggested initial point of reference. Relubrication frequency and quantity intervals are best developed through experience for each application based on types of service, which may differ from the suggestions in the table.

When the housed unit is not in operation for an extended period of time, grease should be added to prevent corrosion.

Table 52 shows general lubrication suggested starting points only. Please read the entire installation instructions prior to using these tables. Applications should be regularly reviewed and lubrication amounts and intervals modified as needed to ensure the best results.



WARNING

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

Proper maintenance and handling practices are critical. Always follow installation instructions and maintain proper lubrication.

Overheated bearings can ignite explosive atmospheres. Special care must be taken to properly select, install, maintain, and lubricate housed unit bearings that are used in or near atmospheres that may contain explosive levels of combustible gases or accumulations of dust such as from grain, coal, or other combustible materials. Consult your equipment designer or supplier for installation and maintenance instructions.

If hammer and bar are used for installation or removal of a part, use a mild steel bar (e.g., 1010 or 1020 grade). Mild steel bars are less likely to cause release of high speed fragments from the hammer or bar or the part being installed or removed.



CAUTION

Failure to follow these cautions may result in property damage.

Do not use damaged housed units.

DISCLAIMER

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.

TABLE 52. RELUBRICATION INTERVALS

| Shaft Dia. | Bearing No. | Initial Weight | Relubrication Weight | Relubrication Interval (Hours of Service based on RPM and Temperature deg. F) | | | | | | | | | | | |
|---|-------------|----------------------|----------------------|---|-------|---------|-------|---------|-------|----------|-------|----------|-------|----------|-------|
| | | | | 100 RPM | | 250 RPM | | 500 RPM | | 1000 RPM | | 2000 RPM | | 3000 RPM | |
| | | | | <160° | >160° | <160° | >160° | <160° | >160° | <160° | >160° | <160° | >160° | <160° | >160° |
| mm in. | | g oz. | g oz. | | | | | | | | | | | | |
| 35 1 1/16, 1 1/2 | 22208 | 14.2 0.5 | 2.8 0.1 | 2200 | 1000 | 1400 | 700 | 1000 | 500 | 240 | 120 | 120 | 60 | 40 | 20 |
| 40, 45 1 1/16, 1 3/4 | 22209 | 19.9 0.7 | 5.7 0.2 | 2000 | 1000 | 1200 | 600 | 800 | 400 | 320 | 160 | 160 | 80 | 80 | 40 |
| 50 1 15/16, 2 | 22210 | 22.7 0.8 | 5.7 0.2 | 1600 | 800 | 1000 | 500 | 640 | 320 | 240 | 120 | 120 | 60 | 60 | 30 |
| 55 2 3/16, 2 1/4 | 22211 | 28.4 1 | 8.5 0.3 | 1200 | 600 | 800 | 400 | 440 | 220 | 160 | 80 | 100 | 50 | 60 | 30 |
| 60, 65 2 7/16, 2 1/2 | 22213 | 39.7 1.4 | 11.3 0.4 | 1120 | 560 | 720 | 360 | 360 | 180 | 120 | 60 | 80 | 40 | 40 | 20 |
| 70, 75 2 11/16, 2 3/4 2 15/16, 3 | 22215 | 76.5 2.7 | 19.8 0.7 | 1040 | 520 | 680 | 340 | 340 | 170 | 100 | 50 | 60 | 30 | | |
| 80, 85, 90 3 3/16, 3 1/4 3 7/16, 3 1/2 | 22218 | 104.9 3.7 | 25.5 0.9 | 960 | 480 | 600 | 300 | 300 | 150 | 80 | 40 | 40 | 20 | | |
| 100 3 11/16, 3 3/4 3 15/16, 4 | 22220 | 184.3 6.5 | 45.4 1.6 | 840 | 420 | 520 | 260 | 240 | 120 | 60 | 30 | 20 | 16 | | |
| 110, 115 4 7/16, 4 1/2 | 22222 | 209.8 7.4 | 53.9 1.9 | 680 | 340 | 440 | 220 | 200 | 100 | 60 | 30 | 20 | 16 | | |
| 125, 130 4 15/16, 5 | 22226 | 300.5 10.6 | 76.5 2.7 | 560 | 280 | 360 | 180 | 160 | 80 | | | | | | |
| 140, 150 5 7/16, 5 1/2 5 15/16, 6 | 23230 | 589.7 20.8 | 147.4 5.2 | 480 | 240 | 320 | 160 | 120 | 68 | | | | | | |
| 170, 180 6 7/16, 6 1/2 6 15/16, 7 | 23234 | 850.0 30.0 | 241.0 8.5 | 400 | 160 | 240 | 160 | 110 | 60 | | | | | | |

HOW TO CONVERT A SOLID-BLOCK HOUSED UNIT FROM FIXED TO EXPANSION (FLOATING)

Flange Cartridge and Flange Block

- Make a reference mark on the housing and retaining nut.
- Loosen the Nylon-tipped set screw that locks the retaining nut in place.
- Loosen the retaining nut by tapping it with a hammer and punch, rotating the retaining nut counterclockwise one complete revolution.
- Tighten the Nylon-tipped set screw.

NOTE

When converting a solid-block housed unit bearing from fixed to expansion, it is imperative that the unit that is going to be converted is correctly oriented. Since the insert in a steel housed unit flange bearing is held against either a shoulder or snap ring opposite the housing retaining nut, a flange bearing that has been converted to expansion can only float in the direction of the retaining nut. Based on this, the retaining nut must be on the side of the housing opposite the fixed bearing.

Pillow Block

- Decide the amount and direction of expansion that's needed. If unidirectional expansion is required, follow the directions outlined above for flange bearings on the nut that is on the side you want the expansion.
- If multi-directional expansion is required, follow the directions outlined above for both nuts on flange housed units.

HOW TO CONVERT A SOLID-BLOCK HOUSED UNIT FROM EXPANSION (FLOATING) TO FIXED

Flange Cartridge and Flange Block

- Loosen the Nylon-tipped set screw that locks the retaining nut in place.
- Tighten the retaining nut by tapping it with a hammer and punch, rotating the retaining nut clockwise until it's tight. It is not possible to overtighten the retaining nut.
- Tighten the Nylon-tipped set screw.

Pillow Block

- Follow the directions above for flange bearings on both nuts on either side of the housing.

NOTE

When converting a solid-block housed unit from expansion to fixed on a mounted bearing, the locking collar set screws must be released to allow the insert to move both in the housing and on the shaft.

TA/DV TAA/DAA SERIES

INSTALLATION PROCEDURE

Depending on the locking style selection and the size of the bearing choose one of the three methods for installing your housed unit. The single nut tapered adapter and the double nut tapered adapter for shaft sizes 5 in. and below (bearing 22228 and smaller) can be installed by either using the axial drive-up method or the tang count method. When using double nut tapered adapters for shaft sizes 135 mm and larger (bearing 22232 and larger) use the TAA/DAA (large sizes) double nut tapered adapter installation procedure.

AXIAL DRIVE-UP METHOD

- Clean all components of any debris and apply a thin oil film to all mating surfaces to ensure proper seating.
- If using an open-end cover, slide the open-end cover/seal combination into position on the shaft.
- For double nut tapered adapters, back off the withdrawal nut by turning it counterclockwise until it only has one or two threads of engagement holding it onto the adapter.
- Slide the adapter sleeve into position on the shaft, then put the housed unit into place on the adapter sleeve.
- Loosely install the housed unit mounting bolts. Check the housed unit alignment. Verify mounting surfaces are in the same flat plane to help achieve good alignment. If shimming is required to minimize misalignment, use full shims across the entire housing base where possible (fig. 41). Washers should be properly sized to the bolt diameter and should not be an SAE grade, which is smaller.
- Put the lockwasher on and thread the locknut onto the adapter sleeve leaving approximately 6.350 mm (¼ in.) between the lockwasher and the inner ring of the bearing.
- Use a large screwdriver or pry bar to lever the sleeve into position until there is no relative movement between the shaft, the adapter sleeve, and the bearing's inner ring.
- Rotate the locknut until hand-tight.
- Tighten the locknut while using a dial indicator to measure the axial movement of the tapered adapter sleeve relative to the bearing's inner ring (see table 53).
- Bend a tang on the lockwasher into a slot on the locknut to prevent the locknut from loosening.
- For double nut tapered adapters, tighten the withdrawal nut by turning it clockwise until it contacts the inner ring of the bearing, tightening the withdrawal nut until snug. Bend a tang on the withdrawal nut lock washer into a slot on the withdrawal nut to prevent the withdrawal nut from loosening.
- Tighten the housed unit mounting bolts.

If using covers:

- Make sure the mating surface of the cover and retaining nuts are clean and dry.
 - Urethane cover: Slightly roughen the mating surface of the cover, place a 3 mm – 6 mm (1/8 in. – 1/4 in.) bead of polyurethane adhesive sealant on the roughened surface.
 - Steel cover: Place a 3 mm – 6 mm (1/8 in. – 1/4 in.) bead of silicone adhesive sealant on the mating surface of the cover.
- Align the cover mounting holes with the mounting holes on the retaining housing nut (make sure that the grease fitting on the cover is accessible when doing so).
- Apply and tighten the cover mounting hardware.

TABLE 53. AXIAL MOVEMENT OF TAPERED ADAPTER SLEEVE RELATIVE TO INNER RING

| Shaft Dia. | Bearing No. | Minimum Axial Movement | Maximum Axial Movement |
|-----------------------------|-------------|------------------------|------------------------|
| mm in. | | mm in. | mm in. |
| 40 1 7/16, 1 1/2 | 22209 | 0.38 0.015 | 0.46 0.018 |
| 45 1 11/16, 1 3/4 | 22210 | 0.38 0.015 | 0.46 0.018 |
| 50 1 15/16, 2 | 22211 | 0.46 0.018 | 0.56 0.022 |
| 55 – | 22212 | 0.46 0.018 | 0.56 0.022 |
| 60 2 3/16, 2 1/4 | 22213 | 0.46 0.018 | 0.56 0.022 |
| 65 2 7/16, 2 1/2 | 22215 | 0.64 0.025 | 0.76 0.030 |
| 70 2 11/16, 2 3/4 | 22216 | 0.64 0.025 | 0.76 0.030 |
| 75 2 15/16, 3 | 22217 | 0.69 0.027 | 0.97 0.038 |
| 80 3 3/16, 3 1/4 | 22218 | 0.69 0.027 | 0.97 0.038 |
| 85 – | 22219 | 0.69 0.027 | 0.97 0.038 |
| 90 3 7/16, 3 1/2 | 22220 | 0.69 0.027 | 0.97 0.038 |
| 100 3 15/16, 4 | 22222 | 0.76 0.030 | 1.07 0.042 |
| 110 4 3/16, 4 1/4 | 22224 | 0.76 0.030 | 1.07 0.042 |
| 115 4 7/16, 4 1/2 | 22226 | 0.89 0.035 | 1.27 0.050 |
| 125 4 15/16, 5 | 22228 | 0.89 0.035 | 1.27 0.050 |

TANG COUNTING METHOD

- Clean all components of any debris and apply a thin oil film to all mating surfaces to ensure proper seating.
- If using an open-end cover, slide the open-end cover/seal combination into position on the shaft.
- For double nut tapered adapters, back off the withdrawal nut by turning it counterclockwise until it only has one or two threads of engagement holding it onto the adapter.
- Slide the adapter sleeve into the correct position on the shaft, then put the housed unit into place on the adapter sleeve.
- Loosely install the housed unit mounting bolts. Check the housed unit alignment. Verify mounting surfaces are in the same flat plane to help achieve good alignment. If shimming is required to minimize misalignment, use full shims across the entire housing base where possible (fig. 41). Washers should be properly sized to the bolt diameter and should not be an SAE grade, which is smaller.
- Put the lockwasher on and thread the locknut onto the adapter sleeve leaving approximately 6.350 mm (¼ in.) between the lockwasher and the inner ring of the bearing.
- Use a large screwdriver or pry bar to lever the sleeve into position until there is no relative movement between the shaft, the adapter sleeve and the bearing's inner ring.
- Rotate the locknut until hand-tight.
- Note which tang is in line with one slot on the locknut.
- Tighten the locknut until the slot on the locknut passes the number of tangs shown in table 54.
- Bend a tang on the lockwasher into a slot on the locknut to prevent the locknut from loosening.
- For double nut tapered adapters, tighten the withdrawal nut by turning it clockwise until it contacts the inner ring of the bearing, tightening the withdrawal nut until snug. Bend a tang on the withdrawal nut lock washer into a slot on the withdrawal nut to prevent the withdrawal nut from loosening.
- Tighten the housed unit mounting bolts.

If using covers:

- Make sure the mating surface of the cover and retaining nuts are clean and dry.
 - Urethane cover: Slightly roughen the mating surface of the cover, place a 3 mm – 6 mm (1/8 in. – 1/4 in.) bead of polyurethane adhesive sealant on the roughened surface.
 - Steel cover: Place a 3 mm – 6 mm (⅛ in. – ¼ in.) bead of silicone adhesive sealant on the mating surface of the cover.
- Align the cover mounting holes with the mounting holes on the retaining housing nut (make sure that the grease fitting on the cover is accessible when doing so).
- Apply and tighten the cover mounting hardware.

TABLE 54. NUMBER OF TANGS TO LOCKING

| Shaft Dia. | Bearing No. | Number of Tangs |
|-----------------------------|-------------|-----------------|
| mm in. | | |
| 40 1 7/16, 1 1/2 | 22209 | 3-4 |
| 45 1 11/16, 1 3/4 | 22210 | 3-4 |
| 50 1 13/16, 2 | 22211 | 4-5 |
| 55 — | 22212 | 4-5 |
| 60 2 3/16, 2 1/4 | 22213 | 4-5 |
| 65 2 7/16, 2 1/2 | 22215 | 5-6 |
| 70 2 11/16, 2 3/4 | 22216 | 5-6 |
| 75 2 13/16, 3 | 22217 | 8-9 |
| 80 3 3/16, 3 1/4 | 22218 | 8-9 |
| 85 — | 22219 | 8-9 |
| 90 3 7/16, 3 1/2 | 22220 | 8-9 |
| 100 3 15/16, 4 | 22222 | 10-11 |
| 110 4 3/16, 4 1/4 | 22224 | 10-11 |
| 115 4 7/16, 4 1/2 | 22226 | 10-11 |
| 125 4 15/16, 5 | 22228 | 10-11 |

TAA/DAA SERIES (LARGE SERIES) INSTALLATION PROCEDURE

These instructions are for large sizes of the TAA/DAA series double nut tapered adapter, to be used for shaft sizes 130 mm and up (bearing sizes 22232 and larger).

- Clean all components of any debris and apply a thin oil film to all mating surfaces to ensure proper seating.
- If using an open-end cover, slide the open-end cover/seal combination into position on the shaft.
- Check that the withdrawal nut settings are appropriate for the application shaft size. The axial measurement of the withdrawal nut of the tapered adapter is preset from the factory assuming the shaft is nominal. If the shaft is smaller than nominal, calculate the amount of rotation to adjust the withdrawal nut from the values in table 55 under the withdrawal nut adjustment column (values listed are based on $\frac{1}{4}$ turn of the withdrawal nut). This is done by rotating the withdrawal nut counter-clockwise when looking at front face of the nut. The lockwasher or lock plate will need to be disengaged before rotating the withdrawal nut.
 - For reference, the values for preset are listed in table 55 under column "Withdrawal Nut Initial Setting." Positive numbers imply the sleeve protrudes past the withdrawal nut, while negative number imply the withdrawal nut overhangs the adapter sleeve.
- Slide the adapter sleeve and withdrawal nut into the correct position on the shaft, then put the housed unit into place on the adapter sleeve.
- Loosely install the housed unit mounting bolts. Check the housed unit alignment. Verify mounting surfaces are in the same flat plane to help achieve good alignment. If shimming is required to minimize misalignment, use full shims across the entire housing base where possible (fig. 41). Washers should be properly sized to the bolt diameter and should not be an SAE grade, which is smaller.
- Rotate front locknut by hand until it makes contact with inner ring. Using a wrench, further tighten the front locknut until the inner ring makes contact with the inner face of the withdrawal nut. A hydraulic nut also may be used to do this; however, the front locknut must first be removed, then the bearing tightened with a hydraulic nut. Following this, the front locknut is replaced on to the tapered adapter. In bearing sizes 23132K to 23140K, front locknut should rotate through a certain number of tangs of the lockwasher after making initial contact between the tapers of the adapter and the bore of the bearing, detailed in table 55.
- For bearing sizes 23132K to 23140K, secure the front locknut by bending a tang on the lockwasher into the closest notch on the locknut. For bearing sizes 23144K and larger, secure the front locknut by fixing the lockplate into the closest notch on the locknut.
- Tighten the housed unit mounting bolts.

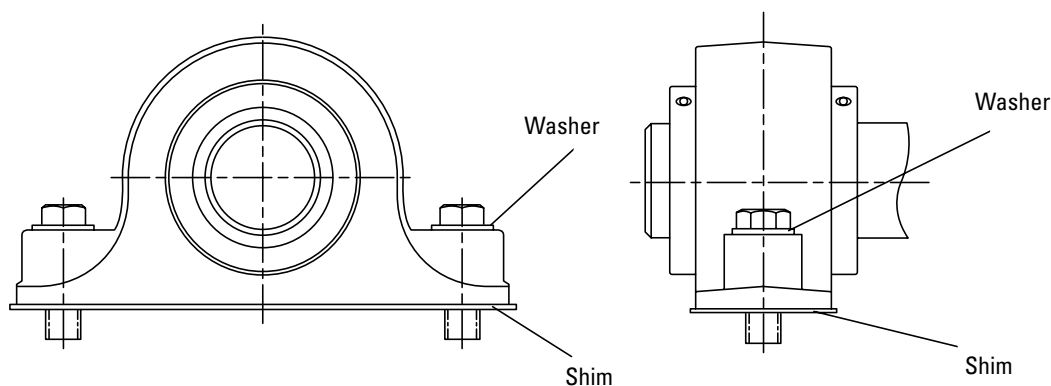


Fig. 41. Use washers and full shims.

CROSS-SECTIONAL VIEW OF BEARINGS

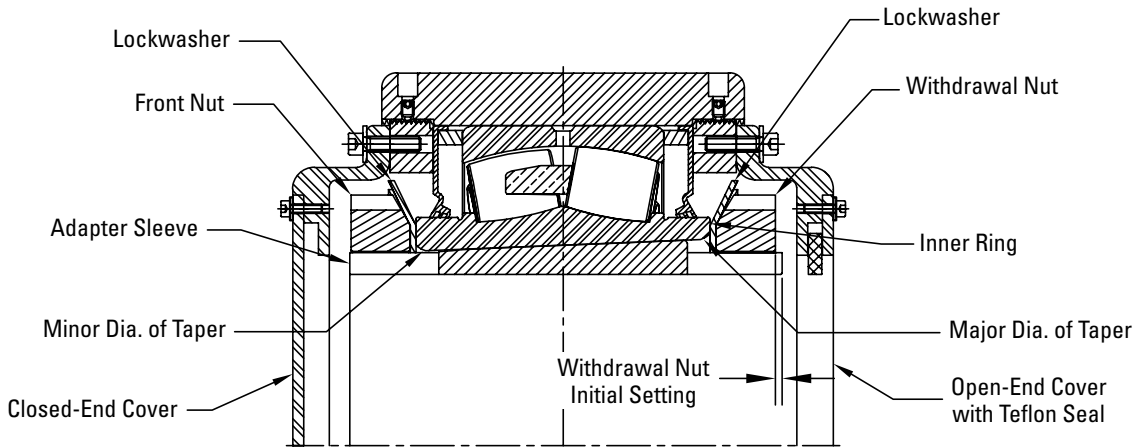


Fig. 42. Cross-sectional view of bearing sizes 23132K to 23140K.

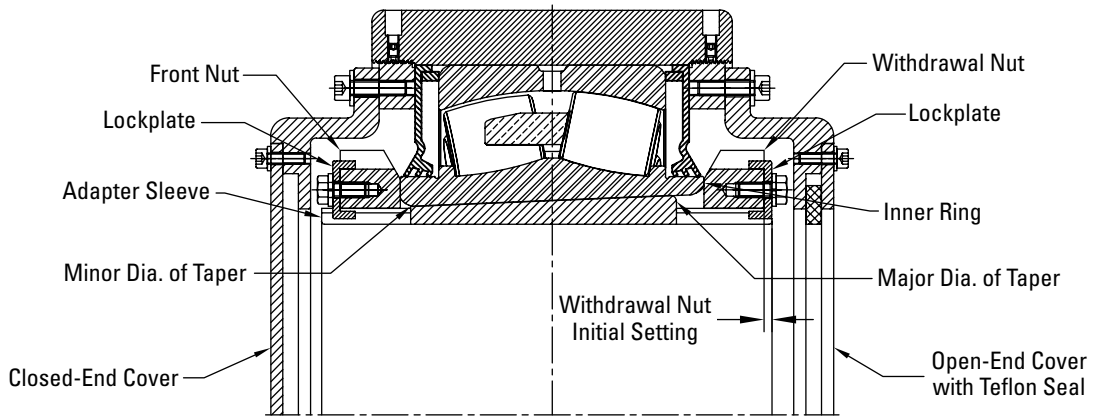


Fig. 43. Cross-sectional view of bearing sizes 23144K and larger.

TABLE 55. INSTALLATION DATA

| Shaft Diameter | Bearing Part No. | Max. Speed (0-Seals) | Adapter Thread Spec. | Recommended Shaft Tolerance | Withdrawal Nut Initial Setting | Withdrawal nut adjustment based on a ¼ turn ⁽²⁾ | Number of Tangs to Lock ⁽¹⁾ |
|--|------------------|----------------------|----------------------|--|--------------------------------|--|--|
| mm in. | | RPM | | mm in. | mm in. | mm in. | |
| 135, 140 5 ¾, 5 ⅞, 5 ½ | 23132K | 500 | M160 x 3 | +0.00 / -0.125 +0.000 / -0.005 | 5.17 0.203 | 0.063 0.0025 | 7–10 |
| 150 5 13/16, 5 7/8, 5 15/16, 6 | 23134K | 470 | M170 x 3 | +0.00 / -0.125 +0.000 / -0.005 | -1.05 -0.042 | 0.063 0.0025 | 7–10 |
| 160 6 5/16, 6 3/8, 6 7/16, 6 1/2 | 23136K | 430 | M180 x 3 | +0.00 / -0.125 +0.000 / -0.005 | -0.31 -0.012 | 0.063 0.0025 | 8–11 |
| 170 6 13/16, 6 7/8, 6 15/16, 7 | 23138K | 400 | M190 x 3 | +0.00 / -0.125 +0.000 / -0.005 | -1.37 -0.054 | 0.063 0.0025 | 9–12 |
| 180 7 1/8, 7 13/16, 7 ¼ | 23140K | 400 | M200 x 3 | +0.00 / -0.125 +0.000 / -0.005 | -1.33 -0.052 | 0.063 0.0025 | 9–12 |
| 200 7 13/16, 7 7/8, 7 15/16, 8 | 23144K | 330 | Tr220 x 4 | +0.00 / -0.125 +0.000 / -0.005 | 3.07 0.121 | 0.083 0.0033 | N/A |
| 220 8 7/16, 8 1/2, 8 15/16, 9 | 23148K | 310 | Tr240 x 4 | +0.00 / -0.152 +0.000 / -0.006 | 2.71 0.107 | 0.083 0.0033 | N/A |
| 240 9 7/16, 9 ½ | 23152K | 250 | Tr260 x 4 | +0.00 / -0.152 +0.000 / -0.006 | 2.65 0.104 | 0.083 0.0033 | N/A |
| 260 9 15/16, 10, 10 7/16, 10 ½ | 23156K | 240 | Tr280 x 4 | +0.00 / -0.178 +0.000 / -0.007 | 2.58 0.101 | 0.083 0.0033 | N/A |
| 280 10 15/16, 11 | 23160K | 210 | Tr300 x 4 | +0.00 / -0.178 +0.000 / -0.007 | 0.48 0.019 | 0.083 0.0033 | N/A |
| 300 11 7/16, 11 ½, 11 15/16, 12 | 23164K | 190 | Tr320 x 5 | +0.00 / -0.178 +0.000 / -0.007 | 0.30 0.012 | 0.104 0.0041 | N/A |
| 320 12 7/16, 12 ½ | 23168K | 180 | Tr340 x 5 | +0.00 / -0.203 +0.000 / -0.008 | 0.34 0.013 | 0.104 0.0041 | N/A |
| 340 12 15/16, 13, 13 7/16, 13 ½ | 23172K | 170 | Tr360 x 5 | +0.00 / -0.203 +0.000 / -0.008 | 0.09 0.003 | 0.104 0.0041 | N/A |
| 360 13 15/16, 14 | 23176K | 160 | Tr380 x 5 | +0.00 / -0.203 +0.000 / -0.008 | 0.00 0.00 | 0.104 0.0041 | N/A |
| 380 14 15/16, 15 | 23180K | 150 | Tr400 x 5 | +0.00 / -0.203 +0.000 / -0.008 | 0.00 0.00 | 0.104 0.0041 | N/A |

⁽¹⁾ Housed units with bearing part no. 23132K to 23140K use lockwashers (fig. 2). Housed units with bearing part no. 23144K and larger use lockplates (fig. 43).

⁽²⁾ Calculation would be: Adjustment turns = (0.25 x (nominal shaft size – measured shaft size)) / Withdrawal nut adjustment value from table.

For example, if the shaft is undersized by 0.001 in., you would back off the withdrawal nut by 1/10 of a turn (or 36 degrees), as shown by the following calculation.

If you have a 5 5/16 in. shaft that is undersized by 0.001 in. (0.25 x (5.4375 in. – 5.4365 in.)) / 0.0025 in.) = 0.1 turns = 1/10 of a turn.

Or in degrees, this would be 360 degrees/10 = 36 degrees.

COVER INSTALLATION

- Make sure the mating surface of the cover and retaining nuts are clean and dry.
- Steel cover: Place a 3-6 mm (1/8 in. – 1/4 in.) bead of silicone adhesive sealant on the mating surface of the cover.
- Align the cover mounting holes with the mounting holes on the retaining housing nut (make sure that the grease fitting on the cover is accessible when doing so).
- Apply and tighten the cover mounting hardware.

TAA/DAA BEARING REMOVAL

- Remove covers, if applicable, by removing cover hardware and disengaging the cover from the housed unit retaining nut.
- Disengage locknut retainer on lockwasher on both front and withdrawal locknuts.
- Remove front locknut.
- Tighten withdrawal nut to disengage bearing from adapter sleeve.
- Slide off bearing, then slide off adapter sleeve.

RELUBRICATION

This information is to aid in the proper lubrication of Timken spherical roller bearing solid-block housed units for the majority of applications.

Housed units have been factory-prelubricated with an NLGI No. 2 lithium-complex, extreme-pressure synthetic grease that combines the benefits of wide operating temperatures and broad compatibility with varied materials. This grease offers excellent thermal stability through temperatures ranging from -40° C to 177° C (-40° F to 350° F). Housed units should be relubricated with this grease or one that is compatible and made for roller bearings. It is vital that the greases used are compatible with the factory installed grease. Please consult with your Timken engineer for the grease specifications if the use of a grease other than the grease mentioned above is needed.

Normal service is considered as operation in a clean, dry environment at temperatures between -34° C to +82° C (-30° F to +180° F). If service is beyond normal conditions due to speed, temperature or exposure to moisture, dirt or corrosive chemicals, periodic relubrication may be necessary. For extreme conditions or conditions in which special chemicals are used, consult with your Timken engineer.

After extended storage or periods when the housed unit is not in operation, fresh grease should be added.

It's important to have the right amount of lubrication because it affects the housed unit bearing operating temperature as well. An inadequate amount of grease could lead to higher operating temperatures due to inadequate lubrication film thickness. Excessive grease will lead to higher operating temperatures due to grease churning, which can cause bearing overheating. It is best to observe the bearing and its temperature and adjust the lubrication as needed. If necessary, use the purge valve or seals that purge to reduce the amount of grease.

Adequate lubrication is an essential element to the housed unit bearing life. Use table 56 as a suggested initial point of reference. Relubrication frequency and quantity intervals are best determined through experience for each application based on types of service, which may differ from the suggestions in the table.

When the housed unit is not in operation for an extended period of time, grease should be added to prevent corrosion.

Table 56 shows general lubrication suggested starting points only. Please read the entire installation instructions prior to using these tables. Applications should be regularly reviewed and lubrication amounts and intervals modified as needed to ensure the best results.

NOTE

Please check with the manufacturer of your grease delivery system for specific information.

TABLE 56. RELUBRICATION INTERVALS

| Shaft Dia. | Bearing Part No. | Initial Weight | Relubrication Weight | Relubrication Interval (Hours of Service based on RPM and Temperature deg. F) | | | | | | | | | | | |
|---|------------------|----------------------|----------------------|---|-------|---------|-------|---------|-------|----------|-------|----------|-------|----------|-------|
| | | | | 100 RPM | | 250 RPM | | 500 RPM | | 1000 RPM | | 2000 RPM | | 3000 RPM | |
| | | | | <160° | >160° | <160° | >160° | <160° | >160° | <160° | >160° | <160° | >160° | <160° | >160° |
| mm in. | | g oz. | g oz. | | | | | | | | | | | | |
| 40 1 1/16, 1 1/2 | 22209 | 19.8 0.7 | 5.7 0.2 | 2000 | 1000 | 1200 | 600 | 800 | 400 | 320 | 160 | 160 | 80 | 80 | 40 |
| 45 1 11/16, 1 3/4 | 22210 | 22.7 0.8 | 5.7 0.7 | 1600 | 800 | 1000 | 500 | 640 | 320 | 240 | 120 | 120 | 60 | 60 | 30 |
| 50 1 13/16, 2 | 22211 | 28.4 1.0 | 8.5 0.3 | 1200 | 600 | 800 | 400 | 440 | 220 | 160 | 80 | 100 | 50 | 60 | 30 |
| 55 — | 22212 | 34.0 1.2 | 8.5 0.3 | 1150 | 580 | 750 | 380 | 400 | 200 | 140 | 70 | 90 | 50 | 50 | 20 |
| 60 2 3/16, 2 1/4 | 22213 | 39.7 1.4 | 11.3 0.4 | 1120 | 560 | 720 | 360 | 360 | 180 | 120 | 60 | 80 | 40 | 40 | 20 |
| 65 2 7/16, 2 1/2 | 22215 | 76.5 2.7 | 19.8 0.7 | 1040 | 520 | 680 | 340 | 340 | 170 | 100 | 50 | 60 | 30 | | |
| 70 2 11/16, 2 3/4 | 22216 | 76.5 2.7 | 19.8 0.7 | 1040 | 520 | 680 | 340 | 340 | 170 | 10 | 50 | 60 | 30 | | |
| 75 2 15/16, 3 | 22217 | 96.4 3.4 | 25.5 0.9 | 1000 | 500 | 640 | 320 | 320 | 160 | 100 | 50 | 60 | 30 | | |
| 80 3 3/16, 3 1/4 | 22218 | 104.9 3.7 | 25.5 0.9 | 960 | 480 | 600 | 300 | 300 | 150 | 80 | 40 | 40 | 20 | | |
| 85 — | 22219 | 104.9 3.7 | 25.5 0.9 | 960 | 480 | 600 | 300 | 300 | 150 | 80 | 40 | 40 | 20 | | |
| 90 3 7/16, 3 1/2 | 22220 | 184.3 6.5 | 45.4 1.6 | 840 | 420 | 520 | 260 | 240 | 120 | 60 | 30 | | | | |
| 100 3 15/16, 4 | 22222 | 209.8 7.4 | 53.9 1.9 | 680 | 340 | 440 | 220 | 200 | 100 | 60 | 30 | | | | |
| 110 4 3/16, 4 1/4 | 22224 | 260.8 9.2 | 68.0 2.4 | 640 | 320 | 400 | 200 | 180 | 90 | 50 | 25 | | | | |
| 115 4 7/16, 4 1/2 | 22226 | 340.2 12.0 | 85.0 3.0 | 600 | 300 | 360 | 180 | 160 | 80 | 40 | 20 | | | | |
| 125 4 15/16, 5 | 22228 | 396.9 14.0 | 99.2 3.5 | 520 | 260 | 340 | 170 | 140 | 75 | | | | | | |
| 135, 140 5 3/8, 5 7/16, 5 1/2 | 23132 | 593 20.9 | 116 4.1 | 480 | 240 | 320 | 160 | 120 | 60 | | | | | | |
| 150 5 13/16, 5 7/8, 5 15/16, 6 | 23134 | 646 22.8 | 122 4.3 | 420 | 200 | 280 | 140 | 110 | 60 | | | | | | |
| 160 6 5/16, 6 3/8, 6 7/16, 6 1/2 | 23136 | 803 28.3 | 145 5.1 | 400 | 180 | 240 | 120 | | | | | | | | |
| 170 6 13/16, 6 7/8, 6 15/16, 7 | 23138 | 956 33.7 | 167 5.9 | 380 | 160 | 200 | 110 | | | | | | | | |
| 180 7 1/8, 7 3/16, 7 1/4 | 23140 | 1202 42.4 | 190 6.7 | 350 | 150 | 150 | 90 | | | | | | | | |
| 200 7 13/16, 7 7/8, 7 15/16, 8 | 23144 | 1474 52.0 | 221 7.8 | 320 | 140 | 110 | 60 | | | | | | | | |
| 220 8 7/16, 8 1/2, 8 15/16, 9 | 23148 | 1942 68.5 | 255 9.0 | 290 | 130 | 85 | 45 | | | | | | | | |
| 240 9 7/16, 9 1/2 | 23152 | 2415 85.2 | 318 11.2 | 260 | 120 | 60 | 30 | | | | | | | | |
| 260 9 15/16, 10, 10 7/16, 10 1/2 | 23156 | 2745 96.8 | 335 11.8 | 230 | 110 | | | | | | | | | | |
| 280 10 15/16, 11 | 23160 | 3202 113.0 | 400 14.1 | 200 | 100 | | | | | | | | | | |
| 300 11 7/16, 11 1/2, 11 15/16, 12 | 23164 | 4112 145.0 | 476 16.8 | 170 | 90 | | | | | | | | | | |
| 320 12 7/16, 12 1/2 | 23168 | 5093 179.7 | 550 19.4 | 140 | 80 | | | | | | | | | | |
| 340 12 15/16, 13, 13 7/16, 13 1/2 | 23172 | 5315 187.5 | 576 20.3 | 110 | 60 | | | | | | | | | | |
| 360 13 15/16, 14 | 23176 | 5725 201.9 | 601 21.2 | 85 | 45 | | | | | | | | | | |
| 380 14 15/16, 15 | 23180 | 6466 228.1 | 649 22.9 | 60 | 30 | | | | | | | | | | |

HOW TO CONVERT A SOLID-BLOCK HOUSED UNIT FROM FIXED TO EXPANSION (FLOATING)

Flange Cartridge and Flange Block

- Make a reference mark on the housing and retaining nut.
- Loosen the Teflon-tipped set screw that locks the retaining nut in place.
- Loosen the retaining nut by tapping it with a hammer and punch, rotating the retaining nut counterclockwise one complete revolution.
- Tighten the Teflon-tipped set screw.

NOTE

When converting a solid-block housed unit bearing from fixed to expansion, it is imperative that the unit that is going to be converted is correctly oriented. Since the insert in a steel housed unit flange bearing is held against either a shoulder or snap ring opposite the housing retaining nut, a flange bearing that has been converted to expansion can only float in the direction of the retaining nut. Based on this, the retaining nut must be on the side of the housing opposite the fixed bearing.

Pillow Block

- Decide the amount and direction of expansion that's needed. If unidirectional expansion is required, follow the directions outlined above for flange bearings on the nut that is on the side you want the expansion.
- If multi-directional expansion is required, follow the directions above for both nuts on flange housed units.

HOW TO CONVERT A SOLID-BLOCK HOUSED UNIT FROM EXPANSION (FLOATING) TO FIXED

Flange Cartridge and Flange Block

- Loosen the Teflon-tipped set screw that locks the retaining nut in place.
- Tighten the retaining nut by tapping it with a hammer and punch, rotating the retaining nut clockwise until tight. It is not possible to overtighten the retaining nut.
- Tighten the Teflon-tipped set screw.

Pillow Block

- Follow the directions above for flange bearings on both

nuts on either side of the housing.

NOTE

When converting a solid-block housed unit from expansion to fixed on a mounted bearing, the locking-collar set screws must be released to allow the insert to move both in the housing and on the shaft.



WARNING

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

Proper maintenance and handling practices are critical. Always follow installation instructions and maintain proper lubrication.

Overheated bearings can ignite explosive atmospheres. Special care must be taken to properly select, install, maintain, and lubricate housed unit bearings that are used in or near atmospheres that may contain explosive levels of combustible gases or accumulations of dust such as from grain, coal, or other combustible materials. Consult your equipment designer or supplier for installation and maintenance instructions.

If hammer and bar are used for installation or removal of a part, use a mild steel bar (e.g., 1010 or 1020 grade). Mild steel bars are less likely to cause release of high speed fragments from the hammer or bar or the part being installed or removed.



CAUTION

Failure to follow these cautions may result in property damage.

Do not use damaged housed units.

DISCLAIMER

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.



V-LOCK SERIES

The V-Lock locking mechanism (U.S. Pat. No. 7344313) evenly distributes force on the shaft, helping eliminate fretting corrosion. V-Lock provides maximum holding power and prevents overtightening.

The following topics are covered within this section:

| | |
|--|-----|
| Introduction | 90 |
| QVVP Two-Bolt Pillow Blocks | 92 |
| QVVPL Two-Bolt Pillow Blocks | 93 |
| QVVPA SAF Two-Bolt Pillow Blocks | 94 |
| QVVPN SN-Style Two-Bolt Pillow Blocks | 95 |
| QVVSN SN-Style Two-Bolt Pillow Blocks | 96 |
| QVVPKT 9000 Series Two-Bolt Pillow Blocks | 97 |
| QVVPF Four-Bolt Pillow Blocks | 98 |
| QVVPR Four-Bolt Pillow Blocks | 99 |
| QVV PX 5000 Series Four-Bolt Pillow Blocks | 100 |
| QVV PXT 5000 Series Two-Bolt Pillow Blocks | 101 |
| QVV PG SN-Style Four-Bolt Pillow Blocks | 102 |
| QVV PH SAF-Style Four-Bolt Pillow Blocks | 103 |
| QVV PK 9000 Series Four-Bolt Pillow Blocks | 104 |
| QVF and QVVF Square Flange Blocks | 105 |
| QVFB and QVFB Square Flange Blocks | 106 |
| QVFC and QVFC Piloted Flange Cartridges | 107 |
| QVFL and QVFL Square Flange Blocks | 108 |
| QVFX and QVFX 5000 Series Square Flange Blocks | 109 |
| QVFK and QVFK 9000 Series Square Flange Blocks | 110 |
| QVFNL Series Square Flange Blocks | 111 |
| QV FY and QV FY Round Flange Blocks | 112 |
| QVC and QVVC Piloted Flange Cartridges | 113 |
| QVCW and QVVCW Piloted Flange Cartridges | 114 |
| QVMC and QVVMC Cartridge Blocks | 115 |
| QVVTU Take-Up Blocks | 116 |

V-LOCK SERIES

The V-Lock series is specifically designed to address common spherical roller bearing solid-block housed unit problems:

- Reliable mechanical withdrawal
- Preset spherical inner ring radial internal clearances (feeler gages are not required)
- Quick installation (typically 10 minutes or less)
- Highest shaft-holding power
- Works well in high-speed applications where shaft centering is an issue



Fig. 44. V-Lock series insert.

YOU HAVE CHOICES

For the V-Lock series, you can select either single-nut or double-nut versions and choose from many seal configurations and housing styles, which are shown on page 15.

HOUSINGS

- Two-bolt pillow blocks
- Four-bolt pillow blocks
- Flange blocks
- Piloted flange cartridges
- Cartridge blocks
- Take-up blocks

SEALS

- Labyrinth: DuPont™ Teflon® (T)
- Triple-lip: nitrile rubber (M), urethane (O) and Viton® (N)
- Double-lip: nitrile rubber (B) and Viton (C)
- Steel and urethane closed-end covers (CS)
- Steel and urethane open-end covers (CV) with:
 - DuPont Teflon (T)
 - Triple-lip seal (DR)
 - V-ring seal (VR)

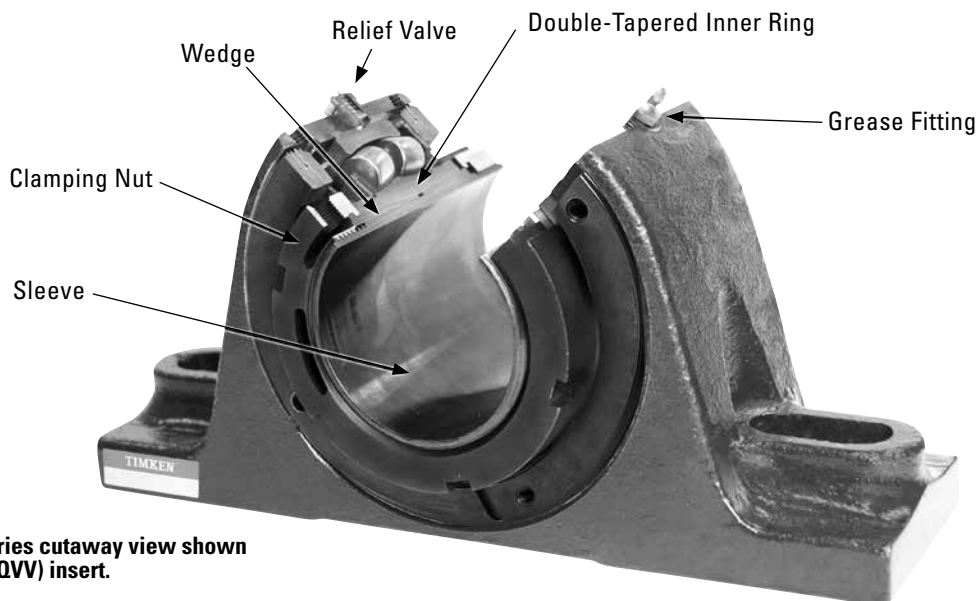


Fig. 45. V-Lock series cutaway view shown with double-nut (QVV) insert.

V-LOCK SERIES WRENCH

New V-Lock series wrenches make installation easy; the wrenches are specifically designed for the V-Lock adapter sleeves, providing three or four points of contact and maximum wrench engagement versus traditional spanner wrench designs. Made from tough high alloy steel for long service life. Eight wrenches are all you need for the 36 different bore sizes.

Fig. 46. V-Lock series wrench.

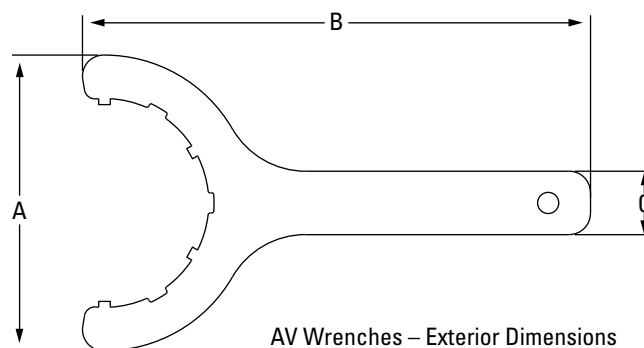
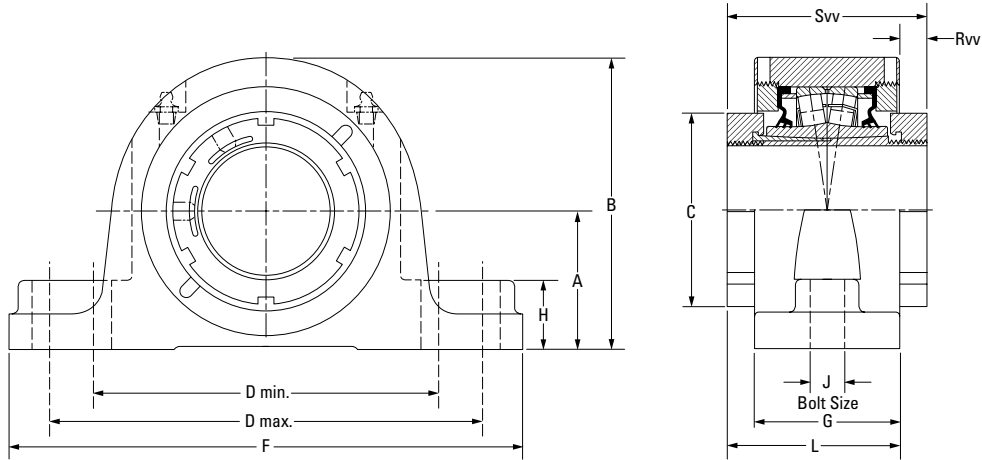


TABLE 57. V-LOCK SERIES WRENCH DIMENSIONS

| Part # | Shaft Dia. | A | B | C |
|-----------|--|------|-------|------|
| | mm in. | in. | in. | in. |
| AVWR11 | 1 15/16 in. 2 in. 50 mm | 5.03 | 10.78 | 1.50 |
| AVWR12-13 | 2 3/16 in. 2 1/4 in. 55 mm | 5.19 | 10.89 | 1.50 |
| AVWR14-15 | 60 mm 2 7/16 in. 2 1/2 in. 65 mm | 5.74 | 11.25 | 1.50 |
| AVWR16-17 | 2 11/16 in. 2 3/4 in. 70 mm 2 15/16 in. 3 in. 75 mm | 6.30 | 11.61 | 1.50 |
| AVWR19-20 | 3 3/16 in. 3 1/4 in. 80 mm 85 mm 3 7/16 in. 3 1/2 in. 90 mm | 7.00 | 12.02 | 1.50 |
| AVWR22 | 3 11/16 in. 3 3/4 in. 100 mm 3 15/16 in. 4 in. | 7.54 | 12.67 | 1.50 |
| AVWR26 | 110 mm 4 7/16 in. 4 1/2 in. 115 mm | 8.92 | 13.30 | 1.50 |
| AVWR28 | 125 mm 4 15/16 in. 5 in. 130 mm | 9.52 | 13.65 | 1.50 |

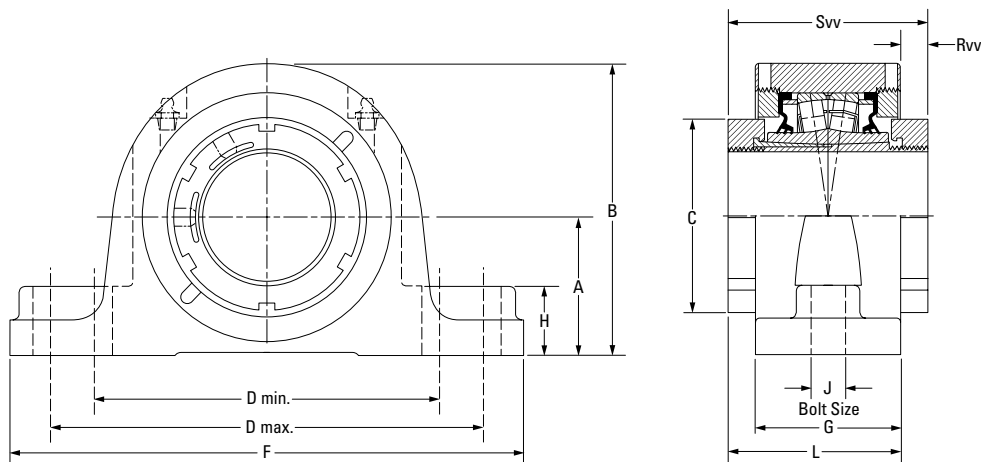
QVVP TWO-BOLT PILLOW BLOCKS – STRAIGHT BORE EQUIVALENT



| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | F | G | H | J | L | Rvv | Svv | Wt. | |
|---------------------------------|------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|--|
| | 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. | kg lbs. | |
| QVVP11V115S | 1 1/8 in. | 22211 | 57.2 | 122.2 | 75.9 | 152.4 | 181.1 | 225.6 | 62.0 | 31.8 | 16 | 82.0 | 20.1 | 102.1 | 6.4 | |
| QVVP11V200S | 2 in. | | 2.25 | 4.81 | 2.99 | 6.00 | 7.13 | 8.88 | 2.44 | 1.25 | 5/8 | 3.23 | 0.79 | 4.02 | 14 | |
| QVVP11V050S | 50 mm | | | | | | | | | | | | | | | |
| QVVP12V203S | 2 3/8 in. | 22212 | 63.5 | 133.4 | 80.3 | 165.1 | 200.2 | 244.6 | 66.8 | 31.8 | 16 | 84.6 | 17.8 | 102.1 | 7.7 | |
| QVVP12V204S | 2 1/4 in. | | 2.50 | 5.25 | 3.16 | 6.50 | 7.88 | 9.63 | 2.63 | 1.25 | 5/8 | 3.33 | 0.70 | 4.02 | 17 | |
| QVVP12V055S | 55 mm | | | | | | | | | | | | | | | |
| QVVP14V060S | 60 mm | 22214 | 69.9 | 147.3 | 94.0 | 174.8 | 219.2 | 260.4 | 73.7 | 35.1 | 16 | 88.9 | 15.2 | 103.9 | 10.0 | |
| QVVP14V207S | 2 7/8 in. | | 2.75 | 5.80 | 3.70 | 6.88 | 8.63 | 10.25 | 2.90 | 1.38 | 5/8 | 3.50 | 0.60 | 4.09 | 22 | |
| QVVP14V208S | 2 1/2 in. | | | | | | | | | | | | | | | |
| QVVP14V065S | 65 mm | | | | | | | | | | | | | | | |
| QVVP16V211S | 2 1/8 in. | 22216 | 79.5 | 164.3 | 106.4 | 200.2 | 244.6 | 295.4 | 76.2 | 35.1 | 20 | 91.2 | 15.0 | 106.2 | 12.7 | |
| QVVP16V212S | 2 3/4 in. | | 3.13 | 6.47 | 4.19 | 7.88 | 9.63 | 11.63 | 3.00 | 1.38 | 3/4 | 3.59 | 0.59 | 4.18 | 28 | |
| QVVP16V070S | 70 mm | | | | | | | | | | | | | | | |
| QVVP16V215S | 2 1/8 in. | | | | | | | | | | | | | | | |
| QVVP16V300S | 3 in. | | | | | | | | | | | | | | | |
| QVVP16V075S | 75 mm | | | | | | | | | | | | | | | |
| QVVP19V303S | 3 3/8 in. | 22219 | 95.3 | 195.3 | 124.5 | 238.3 | 285.8 | 342.9 | 86.6 | 47.8 | 24 | 102.1 | 15.5 | 117.6 | 20.4 | |
| QVVP19V304S | 3 1/4 in. | | 3.75 | 7.69 | 4.90 | 9.38 | 11.25 | 13.50 | 3.41 | 1.88 | 7/8 | 4.02 | 0.61 | 4.63 | 45 | |
| QVVP19V080S | 80 mm | | | | | | | | | | | | | | | |
| QVVP19V085S | 85 mm | | | | | | | | | | | | | | | |
| QVVP19V307S | 3 7/8 in. | | | | | | | | | | | | | | | |
| QVVP19V308S | 3 1/2 in. | | | | | | | | | | | | | | | |
| QVVP19V090S | 90 mm | | | | | | | | | | | | | | | |
| QVVP22V311S | 3 1/8 in. | 22222 | 104.9 | 219.7 | 139.7 | 255.0 | 320.0 | 362.0 | 102.6 | 50.8 | 24 | 116.6 | 14.0 | 130.3 | 26.8 | |
| QVVP22V312S | 3 3/4 in. | | 4.13 | 8.65 | 5.50 | 10.04 | 12.60 | 14.25 | 4.04 | 2.00 | 1 | 4.59 | 0.55 | 5.13 | 59 | |
| QVVP22V100S | 100 mm | | | | | | | | | | | | | | | |
| QVVP22V315S | 3 1/8 in. | | | | | | | | | | | | | | | |
| QVVP22V400S | 4 in. | | | | | | | | | | | | | | | |

⁽¹⁾Double-nut (QVV) part number shown. Single-nut (QV) version available upon request.

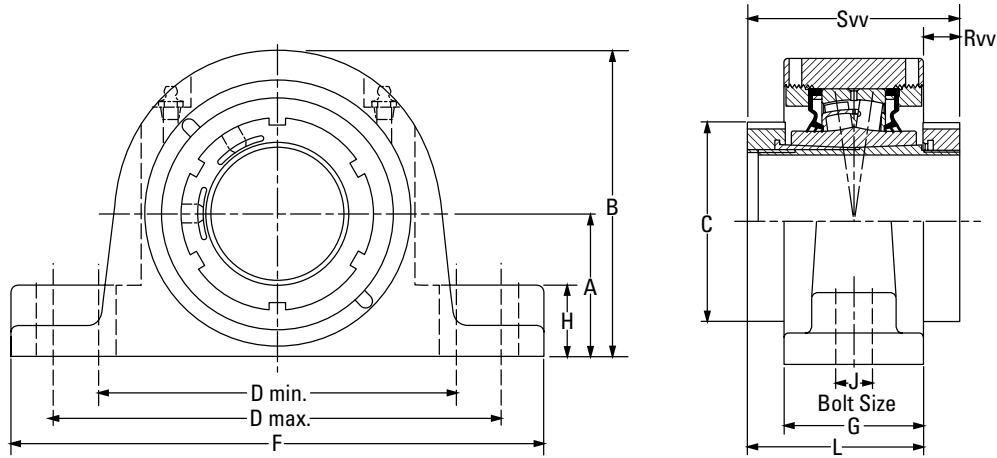
QVVPL TWO-BOLT PILLOW BLOCKS – STRAIGHT BORE EQUIVALENT



| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | F | G | H | J | L | Rvv | Svv | Wt. |
|---------------------------------|-------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| | 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. | kg lbs. |
| QVVPL11V115S | 1 1/16 in. | 22211 | 57.2 | 122.2 | 75.9 | 150.6 | 161.5 | 212.9 | 62.0 | 31.8 | 16 | 82.0 | 20.1 | 102.1 | 6.4 |
| QVVPL11V200S | 2 in. | | 2.25 | 4.81 | 2.99 | 5.93 | 6.36 | 8.38 | 2.44 | 1.25 | 5/8 | 3.23 | 0.79 | 4.02 | 14 |
| QVVPL11V050S | 50 mm | | | | | | | | | | | | | | |
| QVVPL12V203S | 2 3/16 in. | 22212 | 63.5 | 133.4 | 80.3 | 165.1 | 179.3 | 225.6 | 65.5 | 31.8 | 16 | 83.8 | 18.3 | 102.1 | 7.7 |
| QVVPL12V204S | 2 1/4 in. | | 2.50 | 5.25 | 3.16 | 6.50 | 7.06 | 8.88 | 2.58 | 1.25 | 5/8 | 3.30 | 0.72 | 4.02 | 17 |
| QVVPL12V055S | 55 mm | | | | | | | | | | | | | | |
| QVVPL14V060S | 60 mm | 22214 | 69.9 | 147.3 | 94.0 | 173 | 189.0 | 235.0 | 73.7 | 35.1 | 16 | 88.9 | 15.2 | 103.9 | 10.0 |
| QVVPL14V207S | 2 7/16 in. | | 2.75 | 5.80 | 3.70 | 6.81 | 7.44 | 9.25 | 2.90 | 1.38 | 5/8 | 3.50 | 0.60 | 4.09 | 22 |
| QVVPL14V208S | 2 1/2 in. | | | | | | | | | | | | | | |
| QVVPL14V065S | 65 mm | | | | | | | | | | | | | | |
| QVVPL16V211S | 2 1/16 in. | 22216 | 82.6 | 167.4 | 106.4 | 195.6 | 213.4 | 265.2 | 76.2 | 35.1 | 20 | 91.2 | 15.0 | 106.2 | 12.7 |
| QVVPL16V212S | 2 3/8 in. | | 3.25 | 6.59 | 4.19 | 7.70 | 8.40 | 10.44 | 3.00 | 1.38 | 3/4 | 3.59 | 0.59 | 4.18 | 28 |
| QVVPL16V070S | 70 mm | | | | | | | | | | | | | | |
| QVVPL16V215S | 2 15/16 in. | | | | | | | | | | | | | | |
| QVVPL16V300S | 3 in. | | | | | | | | | | | | | | |
| QVVPL16V075S | 75 mm | | | | | | | | | | | | | | |
| QVVPL19V303S | 3 3/16 in. | 22219 | 95.3 | 195.3 | 124.5 | 235.0 | 273.1 | 330.2 | 86.6 | 47.8 | 24 | 102.1 | 15.5 | 117.6 | 20.4 |
| QVVPL19V304S | 3 1/4 in. | | 3.75 | 7.69 | 4.90 | 9.25 | 10.75 | 13.00 | 3.41 | 1.88 | 7/8 | 4.02 | 0.61 | 4.63 | 45 |
| QVVPL19V080S | 80 mm | | | | | | | | | | | | | | |
| QVVPL19V085S | 85 mm | | | | | | | | | | | | | | |
| QVVPL19V307S | 3 7/16 in. | | | | | | | | | | | | | | |
| QVVPL19V308S | 3 1/2 in. | | | | | | | | | | | | | | |
| QVVPL19V090S | 90 mm | | | | | | | | | | | | | | |
| QVVPL22V311S | 3 1/16 in. | 22222 | 108 | 223 | 139.7 | 255.0 | 320.0 | 362.0 | 102.6 | 53.8 | 24 | 116.6 | 14.0 | 130.3 | 26.8 |
| QVVPL22V312S | 3 3/8 in. | | 4.25 | 8.78 | 5.50 | 10.04 | 12.60 | 14.25 | 4.04 | 2.12 | 1 | 4.59 | 0.55 | 5.13 | 59 |
| QVVPL22V100S | 100 mm | | | | | | | | | | | | | | |
| QVVPL22V315S | 3 15/16 in. | | | | | | | | | | | | | | |
| QVVPL22V400S | 4 in. | | | | | | | | | | | | | | |

⁽¹⁾Double-nut (QVV) part number shown. Single-nut (QV) version available upon request.

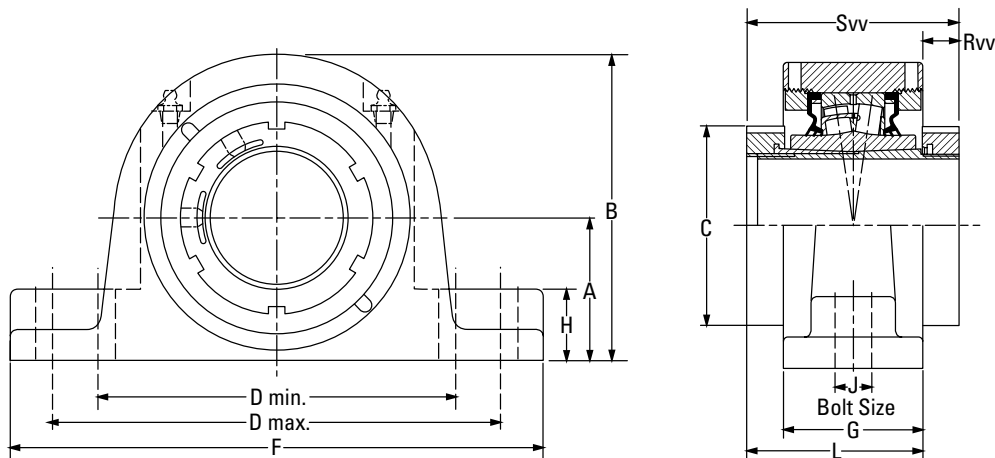
QVPA SAF TWO-BOLT PILLOW BLOCKS – TAPERED BORE EQUIVALENT



| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | F | G | H | J | L | Rvv | Svv | Wt. |
|---------------------------------|---------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-----------|--------------|-------------|--------------|-------------|
| | 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. | kg lbs. |
| QVPA13V203S | 2 3/16 in. | 22213 | 76.2 | 151.1 | 80.3 | 182.9 | 241.3 | 269.5 | 68.6 | 31.2 | 16 | 85.3 | 16.8 | 102.1 | 10.4 |
| QVPA13V204S | 2 1/4 in. | | 3.00 | 5.95 | 3.16 | 7.20 | 9.50 | 10.61 | 2.70 | 1.23 | 5/8 | 3.36 | 0.66 | 4.02 | 23 |
| QVPA13V055S | 55 mm | | | | | | | | | | | | | | |
| QVPA15V060S | 60 mm | 22215 | 82.6 | 163.3 | 94.0 | 200.2 | 244.6 | 276.4 | 68.6 | 31.8 | 16 | 86.4 | 17.8 | 103.9 | 12.2 |
| QVPA15V207S | 2 7/16 in. | | 3.25 | 6.43 | 3.70 | 7.88 | 9.63 | 10.88 | 2.70 | 1.25 | 5/8 | 3.40 | 0.70 | 4.09 | 27 |
| QVPA15V208S | 2 1/2 in. | | | | | | | | | | | | | | |
| QVPA15V065S | 65 mm | 22216 | 88.9 | 176.7 | 106.4 | 228.6 | 279.4 | 330.2 | 72.6 | 31.8 | 20 | 88.2 | 15.5 | 103.7 | 12.2 |
| QVPA16V211S | 2 11/16 in. | | 3.50 | 6.96 | 4.19 | 9.00 | 11.00 | 13.00 | 2.86 | 1.25 | 3/4 | 3.47 | 0.61 | 4.08 | 27 |
| QVPA16V212S | 2 3/4 in. | | | | | | | | | | | | | | |
| QVPA16V070S | 70 mm | 22217 | 95.3 | 186 | 106.4 | 241.3 | 279.4 | 320.8 | 76.2 | 33.8 | 20 | 91.2 | 15.0 | 106.2 | 15.0 |
| QVPA17V211S | 2 11/16 in. | | 3.75 | 7.32 | 4.19 | 9.50 | 11.00 | 12.63 | 3.00 | 1.33 | 3/4 | 3.59 | 0.59 | 4.18 | 33 |
| QVPA17V212S | 2 3/4 in. | | | | | | | | | | | | | | |
| QVPA17V300S | 3 in. | 22219 | 101.6 | 203.1 | 124.5 | 254.0 | 298.5 | 349.3 | 79.8 | 41.3 | 20 | 97.0 | 17.2 | 114.1 | 22.2 |
| QVPA17V075S | 75 mm | | 4.00 | 8.00 | 4.90 | 10.00 | 11.75 | 13.75 | 3.14 | 1.63 | 3/4 | 3.82 | 0.68 | 4.49 | 49 |
| QVPA19V303S | 3 3/16 in. | | | | | | | | | | | | | | |
| QVPA19V304S | 3 1/4 in. | 22220 | 114.3 | 219.2 | 124.5 | 276.4 | 333.5 | 374.7 | 86.9 | 41.4 | 24 | 102.4 | 15.5 | 117.6 | 29.5 |
| QVPA19V080S | 80 mm | | 4.50 | 8.63 | 4.90 | 10.88 | 13.13 | 14.75 | 3.42 | 1.63 | 7/8 | 4.03 | 0.61 | 4.63 | 65 |
| QVPA20V303S | 3 3/16 in. | | | | | | | | | | | | | | |
| QVPA20V304S | 3 1/4 in. | 22222 | 125.5 | 240.5 | 139.7 | 317.5 | 368.3 | 406.4 | 100.6 | 50.8 | 24 | 115.6 | 15.0 | 130.3 | 38.1 |
| QVPA20V080S | 80 mm | | 4.94 | 9.47 | 5.50 | 12.50 | 14.50 | 16.00 | 3.96 | 2.00 | 7/8 | 4.55 | 0.59 | 5.13 | 84 |
| QVPA20V085S | 85 mm | | | | | | | | | | | | | | |
| QVPA20V307S | 3 7/16 in. | 22226 | 152.4 | 284.0 | 174.8 | 362.0 | 400.1 | 444.5 | 128.0 | 51.8 | 24 | 143.2 | 35.2 | 178.3 | 61.7 |
| QVPA20V308S | 3 1/2 in. | | 6.00 | 11.18 | 6.88 | 14.25 | 15.75 | 17.50 | 5.04 | 2.04 | 1 | 5.64 | 1.39 | 7.02 | 136 |
| QVPA20V090S | 90 mm | | | | | | | | | | | | | | |
| QVPA22V311S | 3 11/16 in. | 22228 | 152.4 | 297.2 | 190.0 | 384.3 | 441.5 | 499.9 | 108.0 | 51.8 | 30 | 132.0 | 46.5 | 178.3 | 61.8 |
| QVPA22V312S | 3 3/4 in. | | 6.00 | 11.70 | 7.48 | 15.13 | 17.38 | 19.68 | 4.25 | 2.04 | 1 1/4 | 5.20 | 1.83 | 7.02 | 136 |
| QVPA22V100S | 100 mm | | | | | | | | | | | | | | |
| QVPA22V315S | 3 15/16 in. | 22226 | 152.4 | 297.2 | 190.0 | 384.3 | 441.5 | 499.9 | 108.0 | 51.8 | 30 | 132.0 | 46.5 | 178.3 | 61.8 |
| QVPA22V400S | 4 in. | | 6.00 | 11.70 | 7.48 | 15.13 | 17.38 | 19.68 | 4.25 | 2.04 | 1 1/4 | 5.20 | 1.83 | 7.02 | 136 |
| QVPA26V110S | 110 mm | | | | | | | | | | | | | | |
| QVPA26V407S | 4 7/16 in. | 22226 | 152.4 | 284.0 | 174.8 | 362.0 | 400.1 | 444.5 | 128.0 | 51.8 | 24 | 143.2 | 35.2 | 178.3 | 61.7 |
| QVPA26V408S | 4 1/2 in. | | 6.00 | 11.18 | 6.88 | 14.25 | 15.75 | 17.50 | 5.04 | 2.04 | 1 | 5.64 | 1.39 | 7.02 | 136 |
| QVPA26V115S | 115 mm | | | | | | | | | | | | | | |
| QVPA28V125S | 125 mm | 22228 | 152.4 | 297.2 | 190.0 | 384.3 | 441.5 | 499.9 | 108.0 | 51.8 | 30 | 132.0 | 46.5 | 178.3 | 61.8 |
| QVPA28V415S | 4 15/16 in. | | 6.00 | 11.70 | 7.48 | 15.13 | 17.38 | 19.68 | 4.25 | 2.04 | 1 1/4 | 5.20 | 1.83 | 7.02 | 136 |
| QVPA28V500S | 5 in. | | | | | | | | | | | | | | |
| QVPA28V130S | 130 mm | | | | | | | | | | | | | | |

⁽¹⁾Double-nut (QVV) part number shown. Single-nut (QV) version available upon request.

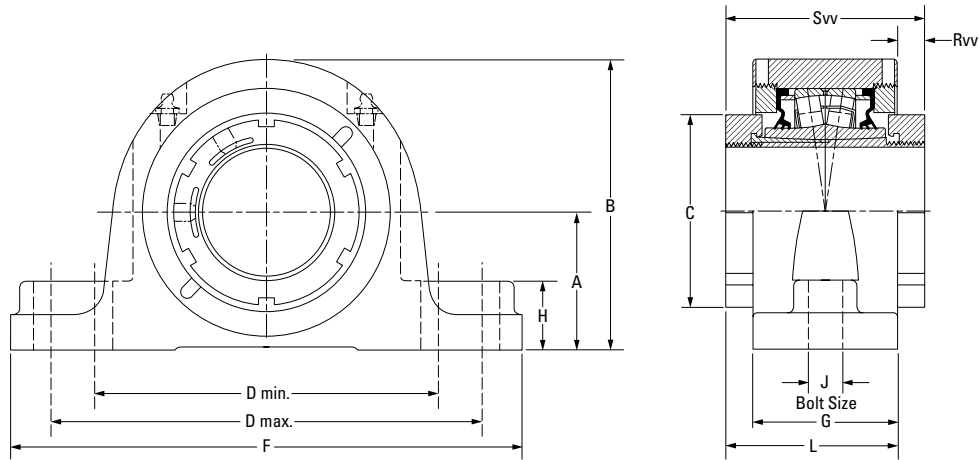
QVVPN SN-STYLE TWO-BOLT PILLOW BLOCKS – TAPERED BORE EQUIVALENT



| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | F | G | H | J | L | Rvv | Svv | Wt. | |
|---------------------------------|-------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------|
| | 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. | kg lbs. | |
| QVVPN11V115S | 1 15/16 in. | 22211 | 69.9 | 135.4 | 75.9 | 165.1 | 221.0 | 251.0 | 60.5 | 31.8 | 16 | 81.3 | 20.8 | 102.1 | 7.7 | |
| QVVPN11V200S | 2 in. | | 2.75 | 5.33 | 2.99 | 6.50 | 8.70 | 9.88 | 2.38 | 1.25 | 5/8 | 3.20 | 0.82 | 4.02 | 17 | |
| QVVPN11V050S | 50 mm | | | | | | | | | | | | | | | |
| QVVPN12V055S | 55 mm | 22212 | 70.0 | 140.5 | 80.0 | 177.8 | 219.2 | 254.0 | 60.5 | 31.8 | 16 | 81.3 | 20.8 | 102.1 | 9.1 | |
| | | | 2.76 | 5.53 | 3.15 | 7.00 | 8.63 | 10.00 | 2.38 | 1.25 | 5/8 | 3.20 | 0.82 | 4.02 | 20 | |
| QVVPN13V203S | 2 3/16 in. | 22213 | 80.0 | 154.9 | 80.3 | 182.9 | 241.3 | 269.5 | 68.6 | 35.1 | 16 | 85.3 | 16.8 | 102.1 | 10.4 | |
| QVVPN13V204S | 2 1/4 in. | | 3.15 | 6.10 | 3.16 | 7.20 | 9.50 | 10.61 | 2.70 | 1.38 | 5/8 | 3.36 | 0.66 | 4.02 | 23 | |
| QVVPN14V060S | 60 mm | 22214 | 80.0 | 157.5 | 94.0 | 195.6 | 235.0 | 275.0 | 74.0 | 35.1 | 16 | 89.0 | 15.0 | 104.0 | 10.4 | |
| | | | 3.15 | 6.20 | 3.70 | 7.70 | 9.25 | 10.83 | 2.91 | 1.38 | 5/8 | 3.50 | 0.59 | 4.09 | 23 | |
| QVVPN15V207S | 2 7/16 in. | 22215 | 80.0 | 160.8 | 94.0 | 200.2 | 244.6 | 276.4 | 68.6 | 29.2 | 16 | 86.4 | 17.8 | 103.9 | 12.2 | |
| QVVPN15V208S | 2 1/2 in. | | 3.15 | 6.33 | 3.70 | 7.88 | 9.63 | 10.88 | 2.70 | 1.15 | 5/8 | 3.40 | 0.70 | 4.09 | 27 | |
| QVVPN15V065S | 65 mm | | | | | | | | | | | | | | | |
| QVVPN16V211S | 2 15/16 in. | 22216 | 95.0 | 180.3 | 106.4 | 235.0 | 266.7 | 315.0 | 72.6 | 31.8 | 20 | 89.4 | 16.8 | 106.0 | 13.6 | |
| QVVPN16V212S | 2 3/4 in. | | 3.74 | 7.10 | 4.19 | 9.25 | 10.50 | 12.40 | 2.86 | 1.25 | 3/4 | 3.52 | 0.66 | 4.17 | 30 | |
| QVVPN16V070S | 70 mm | | | | | | | | | | | | | | | |
| QVVPN17V215S | 2 15/16 in. | | 22217 | 95.3 | 185.9 | 106.4 | 241.3 | 279.4 | 320.8 | 76.2 | 33.8 | 20 | 91.2 | 15.0 | 106.2 | 15.0 |
| QVVPN17V300S | 3 in. | | | 3.75 | 7.32 | 4.19 | 9.50 | 11.00 | 12.63 | 3.00 | 1.33 | 3/4 | 3.59 | 0.59 | 4.18 | 33 |
| QVVPN17V075S | 75 mm | | | | | | | | | | | | | | | |
| QVVPN19V303S | 3 3/16 in. | 22219 | 100.0 | 195.3 | 124.5 | 285.8 | 295.4 | 344.9 | 86.6 | 38.9 | 20 | 102.0 | 16.0 | 118.1 | 22.2 | |
| QVVPN19V304S | 3 1/4 in. | | 3.94 | 7.69 | 4.90 | 11.25 | 11.63 | 13.58 | 3.41 | 1.53 | 3/4 | 4.02 | 0.63 | 4.65 | 49 | |
| QVVPN19V080S | 80 mm | | | | | | | | | | | | | | | |
| QVVPN19V085S | 85 mm | 22219 | 112.0 | 212.3 | 124.5 | 285.8 | 295.4 | 346.2 | 82.8 | 38.9 | 20 | 100.6 | 17.8 | 118.1 | 23.1 | |
| | | | 4.41 | 8.36 | 4.90 | 11.25 | 11.63 | 13.63 | 3.26 | 1.53 | 3/4 | 3.96 | 0.70 | 4.65 | 51 | |
| QVVPN20V307S | 3 7/16 in. | 22220 | 112.0 | 216.9 | 124.5 | 276.4 | 333.5 | 374.7 | 86.9 | 38.9 | 24 | 102.4 | 15.5 | 117.6 | 29.5 | |
| QVVPN20V308S | 3 1/2 in. | | 4.41 | 8.54 | 4.90 | 10.88 | 13.13 | 14.75 | 3.42 | 1.53 | 7/8 | 4.03 | 0.61 | 4.63 | 65 | |
| QVVPN20V090S | 90 mm | | | | | | | | | | | | | | | |
| QVVPN22V311S | 3 15/16 in. | 22222 | 125.5 | 240.5 | 139.7 | 317.5 | 368.3 | 406.4 | 100.6 | 50.8 | 24 | 115.6 | 15.0 | 130.3 | 38.1 | |
| QVVPN22V312S | 3 3/4 in. | | 4.94 | 9.47 | 5.50 | 12.50 | 14.50 | 16.00 | 3.96 | 2.00 | 7/8 | 4.55 | 0.59 | 5.13 | 84 | |
| QVVPN22V100S | 100 mm | | | | | | | | | | | | | | | |
| QVVPN22V315S | 3 5/16 in. | | 22224 | 140.0 | 262.9 | 174.8 | 344.4 | 355.6 | 409.7 | 97.8 | 50.8 | 24 | 138.2 | 40.4 | 178.3 | 49.9 |
| QVVPN24V110S | 110 mm | | | 5.51 | 10.35 | 6.88 | 13.56 | 14.00 | 16.13 | 3.85 | 2.00 | 7/8 | 5.44 | 1.59 | 7.02 | 110 |
| QVVPN26V407S | 4 7/16 in. | 22226 | 150.0 | 281.7 | 174.8 | 362.0 | 400.1 | 444.5 | 128.0 | 49.3 | 24 | 153.2 | 25.1 | 178.3 | 61.7 | |
| QVVPN26V408S | 4 1/2 in. | | 5.91 | 11.09 | 6.88 | 14.25 | 15.75 | 17.50 | 5.04 | 1.94 | 1 | 6.03 | 0.99 | 7.02 | 136 | |
| QVVPN26V115S | 115 mm | | | | | | | | | | | | | | | |
| QVVPN28V125S | 125 mm | 22228 | 150.0 | 394.9 | 190.0 | 384.3 | 441.5 | 423.9 | 108.0 | 49.5 | 30 | 132.0 | 46.5 | 178.3 | 63.0 | |
| QVVPN28V415S | 4 15/16 in. | | 5.91 | 11.61 | 7.48 | 15.13 | 17.38 | 16.69 | 4.25 | 1.95 | 1 1/4 | 5.20 | 1.83 | 7.02 | 138 | |
| QVVPN28V500S | 5 in. | | | | | | | | | | | | | | | |
| QVVPN28V130S | 130 mm | | | | | | | | | | | | | | | |

⁽¹⁾Double-nut (QVV) part number shown. Single-nut (QV) version available upon request.

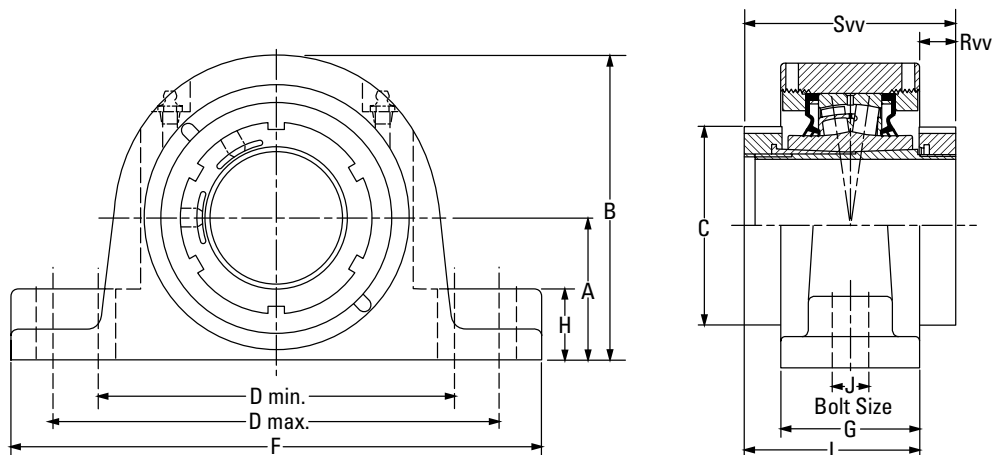
QVVSN SN-STYLE TWO-BOLT PILLOW BLOCKS – PURE METRIC DESIGN



| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | F | G | H | J | L | Rvv | Svv | Wt. |
|---------------------------------|---------------|-------------|------------|------------|------------|------------|------------|------------|------------|-----------|-----------|------------|-----------|------------|-------------|
| | 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. | kg lbs. |
| QVVSN11V115S | 1 15/16 in. | 22211 | 70 | 136 | 76 | 183 | 216 | 254 | 68 | 25 | 16 | 85 | 17 | 102 | 8.4 |
| QVVSN11V200S | 2 in. | | 2.76 | 5.35 | 2.99 | 7.20 | 8.50 | 10.00 | 2.68 | 0.98 | 5/8 | 3.35 | 0.67 | 4.02 | 18 |
| QVVSN11V050S | 50 mm | | | | | | | | | | | | | | |
| QVVSN12V203S | 2 3/8 in. | 22212 | 70 | 141 | 80 | 183 | 216 | 254 | 68 | 25 | 16 | 85 | 17 | 102 | 13.2 |
| QVVSN12V204S | 2 1/4 in. | | 2.76 | 5.54 | 3.16 | 7.20 | 8.50 | 10.00 | 2.69 | 0.98 | 5/8 | 3.35 | 0.67 | 4.02 | 29 |
| QVVSN12V055S | 55 mm | | | | | | | | | | | | | | |
| QVVSN14V060S | 60 mm | 22214 | 80 | 157 | 94 | 196 | 235 | 275 | 74 | 35 | 16 | 89 | 15 | 104 | 16.8 |
| QVVSN14V207S | 2 7/8 in. | | 3.15 | 6.20 | 3.70 | 7.70 | 9.25 | 10.83 | 2.91 | 1.38 | 5/8 | 3.50 | 0.59 | 4.09 | 37 |
| QVVSN14V208S | 2 1/2 in. | | | | | | | | | | | | | | |
| QVVSN14V065S | 65 mm | | | | | | | | | | | | | | |
| QVVSN16V211S | 2 11/16 in. | 22216 | 95 | 183 | 106 | 241 | 279 | 316 | 76 | 34 | 20 | 91 | 15 | 106 | 20.9 |
| QVVSN16V212S | 2 3/4 in. | | 3.74 | 7.19 | 4.19 | 9.50 | 11 | 12.44 | 3.00 | 1.32 | 3/4 | 3.58 | 0.59 | 4.17 | 46 |
| QVVSN16V070S | 70 mm | | | | | | | | | | | | | | |
| QVVSN16V215S | 2 5/8 in. | | | | | | | | | | | | | | |
| QVVSN16V300S | 3 in. | | | | | | | | | | | | | | |
| QVVSN16V075S | 75 mm | | | | | | | | | | | | | | |
| QVVSN19V303S | 3 3/8 in. | 22219 | 100 | 200 | 124 | 280 | 292 | 345 | 86 | 39 | 20 | 102 | 16 | 118 | 25.4 |
| QVVSN19V304S | 3 1/4 in. | | 3.94 | 7.87 | 4.90 | 11.02 | 11.50 | 13.58 | 3.38 | 1.53 | 3/4 | 4.02 | 0.63 | 4.65 | 56 |
| QVVSN19V080S | 80 mm | | | | | | | | | | | | | | |
| QVVSN19V085S | 85 mm | | | | | | | | | | | | | | |
| QVVSN19V307S | 3 7/8 in. | 22219 | 112 | 212 | 124 | 290 | 327 | 380 | 86 | 39 | 24 | 102 | 16 | 118 | 25.4 |
| QVVSN19V308S | 3 1/2 in. | | 4.41 | 8.34 | 4.90 | 11.42 | 12.87 | 14.96 | 3.38 | 1.53 | 7/8 | 4.02 | 0.63 | 4.65 | 56 |
| QVVSN19V090S | 90 mm | | | | | | | | | | | | | | |
| QVVSN22V311S | 3 11/16 in. | 22222 | 125 | 241 | 140 | 320 | 366 | 410 | 101 | 50 | 24 | 116 | 15 | 130 | 35.8 |
| QVVSN22V312S | 3 3/4 in. | | 4.92 | 9.48 | 5.50 | 12.58 | 14.42 | 16.14 | 3.96 | 1.98 | 7/8 | 4.57 | 0.59 | 5.12 | 79 |
| QVVSN22V100S | 100 mm | | | | | | | | | | | | | | |
| QVVSN22V315S | 3 15/16 in. | | | | | | | | | | | | | | |
| QVVSN22V400S | 4 in. | | | | | | | | | | | | | | |
| QVVSN26V110S | 110 mm | 22226 | 140 | 270 | 175 | 332 | 365 | 410 | 113 | 39 | 24 | 146 | 33 | 178 | 39.9 |
| QVVSN26V407S | 4 7/8 in. | | 5.51 | 10.63 | 6.88 | 13.08 | 14.37 | 16.14 | 4.43 | 1.55 | 7/8 | 5.75 | 1.30 | 7.01 | 88 |
| QVVSN26V408S | 4 1/2 in. | 22226 | 150 | 279 | 175 | 367 | 400 | 445 | 113 | 49 | 24 | 146 | 33 | 178 | 39.9 |
| QVVSN26V115S | 115 mm | | 5.91 | 10.99 | 6.88 | 14.45 | 15.75 | 17.52 | 4.43 | 1.94 | 7/8 | 5.75 | 1.30 | 7.01 | 88 |
| QVVSN28V125S | 125 mm | | | | | | | | | | | | | | |
| QVVSN28V415S | 4 15/16 in. | 22228 | 150 | 294 | 190 | 402 | 435 | 500 | 116 | 49 | 30 | 148 | 31 | 178 | 67.0 |
| QVVSN28V500S | 5 in. | | 5.91 | 11.56 | 7.48 | 15.84 | 17.13 | 19.68 | 4.56 | 1.94 | 1 1/4 | 5.83 | 1.22 | 7.01 | 147 |
| QVVSN28V130S | 130 mm | | | | | | | | | | | | | | |

⁽¹⁾Double-nut (QVV) part number shown. Single-nut (QV) version available upon request.

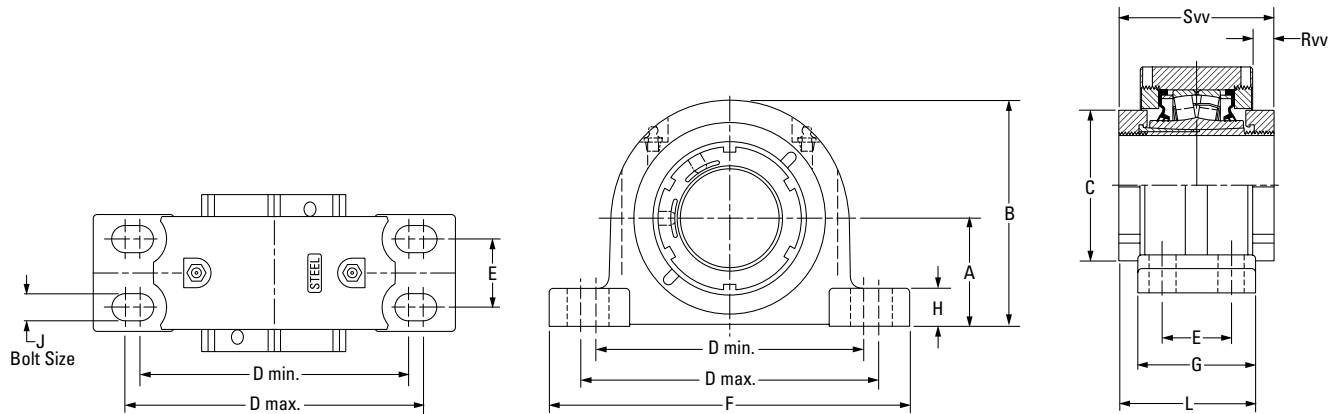
QVVPKT 9000 SERIES TWO-BOLT PILLOW BLOCKS – TAPERED BORE EQUIVALENT



| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | F | G | H | J | L | Rvv | Svv | Wt. | |
|---------------------------------|--------------|-------------|-------------|--------------|-------------|--------------|--------------|--------------|-------------|-------------|-----------|-------------|-------------|--------------|-------------|--|
| | 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. | kg lbs. | |
| QVVPKT13V203S | 2 3/16 in. | 22213 | 76.2 | 153.7 | 80.3 | 194.6 | 223.0 | 285.8 | 73.7 | 35.1 | 20 | 87.9 | 14.2 | 102.1 | 10.0 | |
| QVVPKT13V204S | 2 1/4 in. | | 3.00 | 6.05 | 3.16 | 7.66 | 8.78 | 11.25 | 2.90 | 1.38 | 3/4 | 3.46 | 0.56 | 4.02 | 22 | |
| QVVPKT13V055S | 55 mm | | | | | | | | | | | | | | | |
| QVVPKT15V060S | 60 mm | 22215 | 88.9 | 173.7 | 94.0 | 230.1 | 265.2 | 330.2 | 75.7 | 35.1 | 24 | 89.9 | 14.2 | 103.9 | 12.7 | |
| QVVPKT15V207S | 2 7/16 in. | | 3.50 | 6.84 | 3.70 | 9.06 | 10.44 | 13.00 | 2.98 | 1.38 | 7/8 | 3.54 | 0.56 | 4.09 | 28 | |
| QVVPKT15V208S | 2 1/2 in. | | | | | | | | | | | | | | | |
| QVVPKT15V065S | 65 mm | | | | | | | | | | | | | | | |

⁽¹⁾Double-nut (QVV) part number shown. Single-nut (QV) version available upon request.

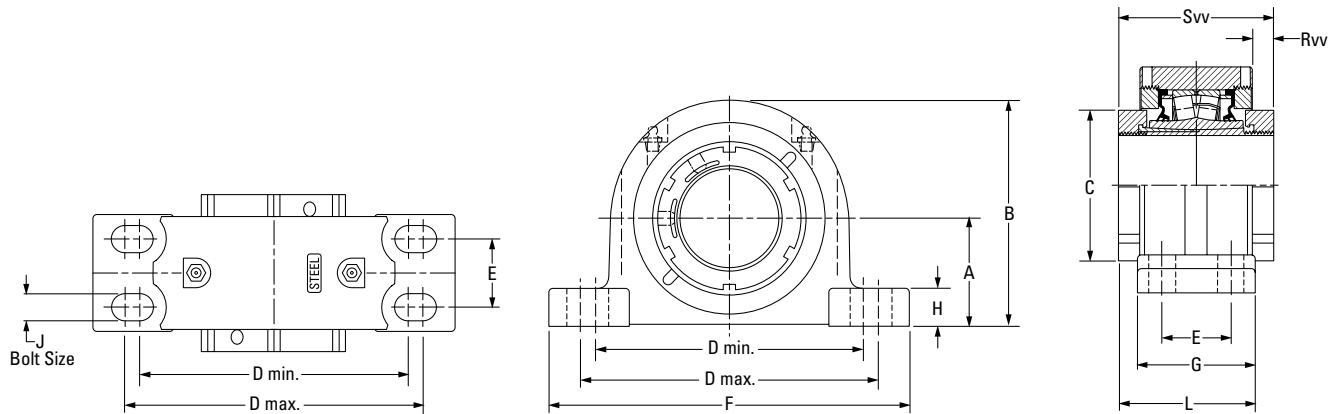
QVVPF FOUR-BOLT PILLOW BLOCKS – STRAIGHT BORE EQUIVALENT



| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | E | F | G | H | J | L | Rvv | Svv | Wt. |
|---------------------------------|-------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| | 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. | mm in. | kg lbs. |
| QVVPF14V060S | 60 mm | 22214 | 69.9 | 147.3 | 94.0 | 174.8 | 193.8 | 44.5 | 235.0 | 76.2 | 24.9 | 16 | 90.2 | 15.2 | 103.9 | 9.1 |
| QVVPF14V207S | 2 7/8 in. | | 2.75 | 5.80 | 3.70 | 6.88 | 7.63 | 1.75 | 9.25 | 3.00 | 0.98 | % | 3.55 | 0.60 | 4.09 | 20 |
| QVVPF14V208S | 2 1/2 in. | | | | | | | | | | | | | | | |
| QVVPF14V065S | 65 mm | 22216 | 82.6 | 167.4 | 106.4 | 193.0 | 231.1 | 47.8 | 265.2 | 79.5 | 32.8 | 16 | 93.0 | 15.2 | 106.2 | 12.2 |
| QVVPF16V211S | 2 1/8 in. | | 3.25 | 6.59 | 4.19 | 7.60 | 9.10 | 1.88 | 10.44 | 3.13 | 1.29 | % | 3.66 | 0.60 | 4.18 | 27 |
| QVVPF16V212S | 2 3/4 in. | | | | | | | | | | | | | | | |
| QVVPF16V070S | 70 mm | 22219 | 95.3 | 195.3 | 124.5 | 225.6 | 276.4 | 50.8 | 312.4 | 95.3 | 39.6 | 20 | 106.4 | 14.5 | 117.6 | 22.2 |
| QVVPF16V215S | 2 15/16 in. | | 3.75 | 7.69 | 4.90 | 8.88 | 10.88 | 2.00 | 12.30 | 3.75 | 1.56 | 3/4 | 4.19 | 0.57 | 4.63 | 49 |
| QVVPF16V300S | 3 in. | | | | | | | | | | | | | | | |
| QVVPF16V075S | 75 mm | 22222 | 108.0 | 223.0 | 139.7 | 276.4 | 339.9 | 57.2 | 378.0 | 109.5 | 35.6 | 20 | 119.9 | 14.7 | 130.3 | 30.4 |
| QVVPF19V303S | 3 3/8 in. | | 4.25 | 8.78 | 5.50 | 10.88 | 13.38 | 2.25 | 14.88 | 4.31 | 1.40 | 3/4 | 4.72 | 0.58 | 5.13 | 67 |
| QVVPF19V304S | 3 1/4 in. | | | | | | | | | | | | | | | |
| QVVPF19V080S | 80 mm | 22226 | 120.7 | 250.7 | 174.8 | 301.8 | 368.3 | 63.5 | 409.7 | 120.7 | 40.1 | 20 | 149.6 | 32.8 | 178.3 | 37.2 |
| QVVPF19V085S | 85 mm | | 4.75 | 9.87 | 6.88 | 11.88 | 14.50 | 2.50 | 16.13 | 4.75 | 1.58 | 3/4 | 5.89 | 1.29 | 7.02 | 82 |
| QVVPF19V307S | 3 7/8 in. | | | | | | | | | | | | | | | |
| QVVPF19V308S | 3 1/2 in. | 22228 | 139.7 | 279.7 | 190.0 | 349.3 | 403.4 | 69.9 | 444.5 | 128.0 | 39.1 | 24 | 153.2 | 31.5 | 178.3 | 60.8 |
| QVVPF19V090S | 90 mm | | 5.50 | 11.01 | 7.48 | 13.75 | 15.88 | 2.75 | 17.50 | 5.04 | 1.54 | 7/8 | 6.03 | 1.24 | 7.02 | 134 |
| QVVPF22V311S | 3 1/8 in. | | | | | | | | | | | | | | | |
| QVVPF22V312S | 3 3/4 in. | | | | | | | | | | | | | | | |
| QVVPF22V100S | 100 mm | | | | | | | | | | | | | | | |
| QVVPF22V315S | 3 15/16 in. | | | | | | | | | | | | | | | |
| QVVPF22V400S | 4 in. | | | | | | | | | | | | | | | |
| QVVPF26V110S | 110 mm | | | | | | | | | | | | | | | |
| QVVPF26V407S | 4 7/8 in. | | | | | | | | | | | | | | | |
| QVVPF26V408S | 4 1/2 in. | | | | | | | | | | | | | | | |
| QVVPF26V115S | 115 mm | | | | | | | | | | | | | | | |
| QVVPF28V125S | 125 mm | | | | | | | | | | | | | | | |
| QVVPF28V415S | 4 15/16 in. | | | | | | | | | | | | | | | |
| QVVPF28V500S | 5 in. | | | | | | | | | | | | | | | |
| QVVPF28V130S | 130 mm | | | | | | | | | | | | | | | |

⁽¹⁾Double-nut (QVV) part number shown. Single-nut (QV) version available upon request.

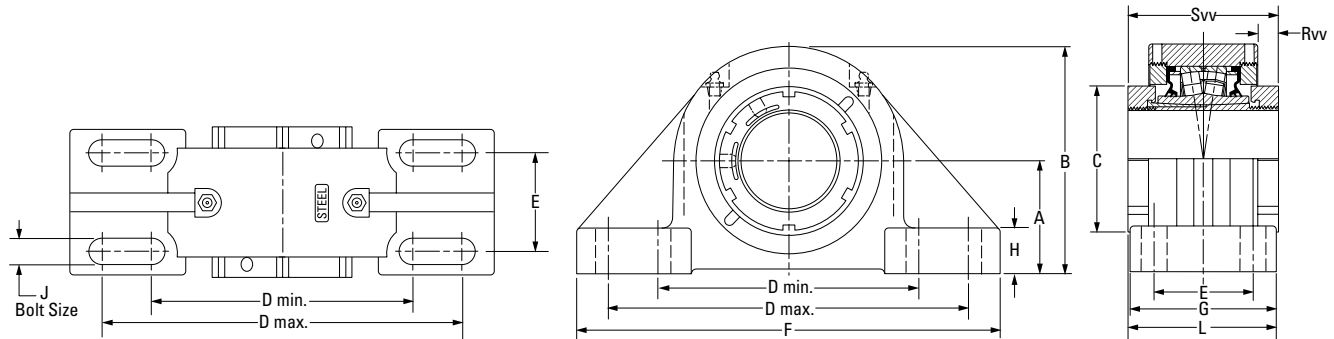
QVVPR FOUR-BOLT PILLOW BLOCKS – STRAIGHT BORE EQUIVALENT



| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | E | F | G | H | J | L | Rvv | Svv | Wt. |
|---------------------------------|-------------|-------------|--------------|---------------|---------------|---------------|----------------|--------------|----------------|--------------|--------------|-----------|---------------|--------------|---------------|------------|
| | 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. | mm in. | kg lbs. |
| QVVPR14V060S | 60 mm | 22214 | 69.9 2.75 | 147.3 5.80 | 94.0 3.70 | 181.1 7.13 | 222.2 8.75 | 47.8 1.88 | 260.4 10.25 | 82.6 3.25 | 24.9 0.98 | 16 5/8 | 93.2 3.67 | 15.2 0.60 | 103.9 4.09 | 9.1 20 |
| QVVPR14V207S | 2 7/16 in. | | | | | | | | | | | | | | | |
| QVVPR14V208S | 2 1/2 in. | | | | | | | | | | | | | | | |
| QVVPR14V065S | 65 mm | | | | | | | | | | | | | | | |
| QVVPR16V211S | 2 1/16 in. | 22216 | 79.5 3.13 | 164.3 6.47 | 106.4 4.19 | 203.2 8.00 | 243.8 9.60 | 54.1 2.13 | 275.1 10.83 | 85.9 3.38 | 29.5 1.16 | 16 5/8 | 96.0 3.78 | 15.2 0.60 | 106.2 4.18 | 12.2 27 |
| QVVPR16V212S | 2 3/4 in. | | | | | | | | | | | | | | | |
| QVVPR16V070S | 70 mm | | | | | | | | | | | | | | | |
| QVVPR16V215S | 2 15/16 in. | | | | | | | | | | | | | | | |
| QVVPR16V300S | 3 in. | 22219 | 95.3 3.75 | 195.3 7.69 | 124.5 4.90 | 235.0 9.25 | 285.8 11.25 | 60.5 2.38 | 346.2 13.63 | 95.3 3.75 | 39.6 1.56 | 20 3/4 | 106.4 4.19 | 14.5 0.57 | 117.6 4.63 | 22.2 49 |
| QVVPR16V075S | 75 mm | | | | | | | | | | | | | | | |
| QVVPR19V303S | 3 3/16 in. | | | | | | | | | | | | | | | |
| QVVPR19V304S | 3 1/4 in. | | | | | | | | | | | | | | | |
| QVVPR19V080S | 80 mm | | | | | | | | | | | | | | | |
| QVVPR19V085S | 85 mm | | | | | | | | | | | | | | | |
| QVVPR19V307S | 3 7/16 in. | | | | | | | | | | | | | | | |
| QVVPR19V308S | 3 1/2 in. | | | | | | | | | | | | | | | |
| QVVPR19V090S | 90 mm | | | | | | | | | | | | | | | |

⁽¹⁾Double-nut (QVV) part number shown. Single-nut (QV) version available upon request.

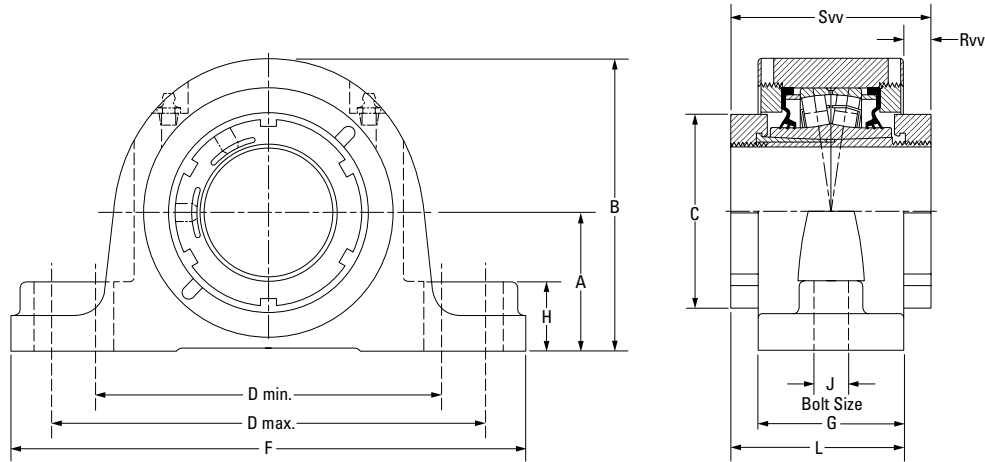
QVVPX 5000 SERIES FOUR-BOLT PILLOW BLOCKS – STRAIGHT BORE EQUIVALENT



| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | E | F | G | H | J | L | Rvv | Svv | Wt. |
|---------------------------------|-------------|-------------|----------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|--------------|-------------|---------------|--------------|---------------|-------------|
| | 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. | mm in. | kg lbs. |
| QVVPX14V060S | 60 mm | 22214 | 76.2 3.00 | 153.7 6.05 | 94.0 3.70 | 176.3 6.94 | 242.8 9.56 | 66.8 2.63 | 285.8 11.25 | 98.6 3.88 | 31.0 1.23 | 16 5/8 | 101.3 3.99 | 15.2 0.60 | 103.9 4.09 | 10.4 23 |
| QVVPX14V207S | 2 7/16 in. | | | | | | | | | | | | | | | |
| QVVPX14V208S | 2 1/2 in. | | | | | | | | | | | | | | | |
| QVVPX14V065S | 65 mm | 22216 | 88.9 3.50 | 173.5 6.83 | 106.4 4.19 | 230.1 9.06 | 265.2 10.44 | 69.9 2.75 | 330.2 13.00 | 108.0 4.25 | 39.1 1.54 | 20 3/4 | 107.2 4.22 | 14.2 0.56 | 106.2 4.18 | 12.7 28 |
| QVVPX16V211S | 2 11/16 in. | | | | | | | | | | | | | | | |
| QVVPX16V212S | 2 3/4 in. | | | | | | | | | | | | | | | |
| QVVPX16V070S | 70 mm | 22219 | 101.6 4.00 | 201.2 7.92 | 124.5 4.90 | 274.6 10.81 | 309.6 12.19 | 76.2 3.00 | 381.0 15.00 | 120.7 4.75 | 38.1 1.50 | 20 3/4 | 119.1 4.69 | 14.5 0.57 | 117. 4.63 | 22.2 49 |
| QVVPX16V215S | 2 15/16 in. | | | | | | | | | | | | | | | |
| QVVPX16V300S | 3 in. | | | | | | | | | | | | | | | |
| QVVPX16V075S | 75 mm | 22222 | 127.0 5.00 | 239.8 9.44 | 139.7 5.50 | 317.5 12.50 | 355.6 14.00 | 88.9 3.50 | 425.5 16.75 | 139.7 5.50 | 41.4 1.63 | 24 7/8 | 135.1 5.32 | 15.2 0.60 | 130.3 5.13 | 30.4 67 |
| QVVPX19V303S | 3 3/16 in. | | | | | | | | | | | | | | | |
| QVVPX19V304S | 3 1/4 in. | | | | | | | | | | | | | | | |
| QVVPX19V080S | 80 mm | 22226 | 146.1 5.75 | 273.8 10.78 | 174.8 6.88 | 354.1 13.94 | 395.2 15.56 | 101.6 4.00 | 469.9 18.50 | 158.8 6.25 | 45.7 1.80 | 24 1 | 168.7 6.64 | 38.4 1.51 | 178.3 7.02 | 37.2 82 |
| QVVPX19V085S | 85 mm | | | | | | | | | | | | | | | |
| QVVPX19V307S | 3 7/16 in. | | | | | | | | | | | | | | | |
| QVVPX19V090S | 90 mm | 22228 | 155.6 6.125 | 293.4 11.55 | 190.0 7.48 | 387.4 15.25 | 425.5 16.75 | 108.0 4.25 | 514.4 20.25 | 171.5 6.75 | 50.8 2.00 | 24 1 1/8 | 175.0 6.89 | 30.7 1.21 | 178.3 7.02 | 61.7 136 |
| QVVPX19V308S | 3 1/2 in. | | | | | | | | | | | | | | | |
| QVVPX22V311S | 3 1/16 in. | | | | | | | | | | | | | | | |
| QVVPX22V312S | 3 3/4 in. | 22226 | 146.1 5.75 | 273.8 10.78 | 174.8 6.88 | 354.1 13.94 | 395.2 15.56 | 101.6 4.00 | 469.9 18.50 | 158.8 6.25 | 45.7 1.80 | 24 1 | 168.7 6.64 | 38.4 1.51 | 178.3 7.02 | 37.2 82 |
| QVVPX22V315S | 3 15/16 in. | | | | | | | | | | | | | | | |
| QVVPX22V400S | 4 in. | | | | | | | | | | | | | | | |
| QVVPX22V100S | 100 mm | 22226 | 146.1 5.75 | 273.8 10.78 | 174.8 6.88 | 354.1 13.94 | 395.2 15.56 | 101.6 4.00 | 469.9 18.50 | 158.8 6.25 | 45.7 1.80 | 24 1 | 168.7 6.64 | 38.4 1.51 | 178.3 7.02 | 37.2 82 |
| QVVPX26V110S | 110 mm | | | | | | | | | | | | | | | |
| QVVPX26V407S | 4 7/16 in. | | | | | | | | | | | | | | | |
| QVVPX26V408S | 4 1/2 in. | 22228 | 155.6 6.125 | 293.4 11.55 | 190.0 7.48 | 387.4 15.25 | 425.5 16.75 | 108.0 4.25 | 514.4 20.25 | 171.5 6.75 | 50.8 2.00 | 24 1 1/8 | 175.0 6.89 | 30.7 1.21 | 178.3 7.02 | 61.7 136 |
| QVVPX26V115S | 115 mm | | | | | | | | | | | | | | | |
| QVVPX28V125S | 125 mm | | | | | | | | | | | | | | | |
| QVVPX28V415S | 4 15/16 in. | 22228 | 155.6 6.125 | 293.4 11.55 | 190.0 7.48 | 387.4 15.25 | 425.5 16.75 | 108.0 4.25 | 514.4 20.25 | 171.5 6.75 | 50.8 2.00 | 24 1 1/8 | 175.0 6.89 | 30.7 1.21 | 178.3 7.02 | 61.7 136 |
| QVVPX28V500S | 5 in. | | | | | | | | | | | | | | | |
| QVVPX28V130S | 130 mm | | | | | | | | | | | | | | | |

⁽¹⁾Double-nut (QVV) part number shown. Single-nut (QV) version available upon request.

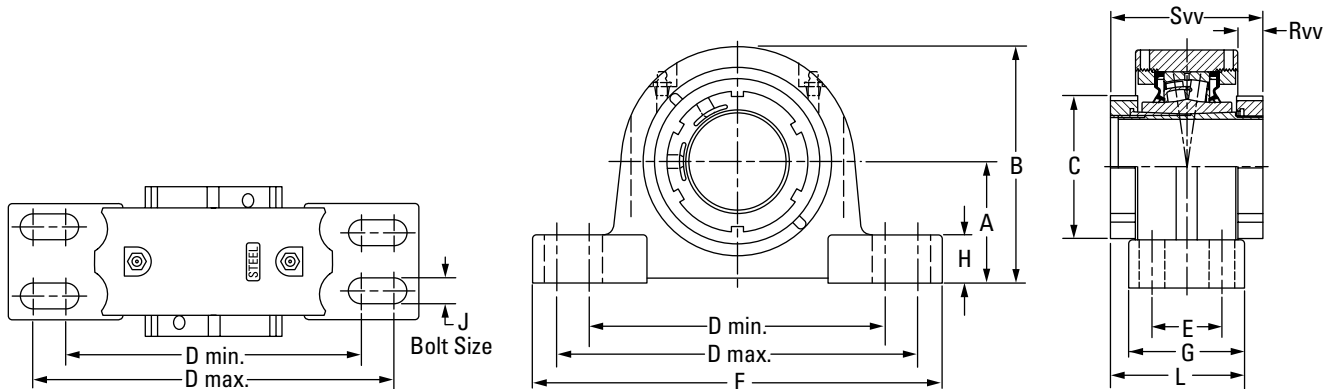
QVVPXT 5000 SERIES TWO-BOLT PILLOW BLOCKS – STRAIGHT BORE EQUIVALENT



| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | F | G | H | J | L | Rvv | Svv | Wt. |
|---------------------------------|--------------|-------------|---------------------|----------------------|----------------------|----------------------|-----------------------|-----------------------|---------------------|---------------------|------------------|---------------------|---------------------|----------------------|-------------------|
| | 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. | kg lbs. |
| QVVPXT14V060S | 60 mm | 22214 | 76.2 3.00 | 153.7 6.05 | 94.0 3.70 | 194.6 7.66 | 233.0 8.78 | 285.8 11.25 | 73.7 2.90 | 35.1 1.38 | 20 ¾ | 88.9 3.50 | 15.2 0.60 | 103.9 4.09 | 10.0 22 |
| QVVPXT14V207S | 2 ¾ in. | | | | | | | | | | | | | | |
| QVVPXT14V208S | 2 ½ in. | | | | | | | | | | | | | | |
| QVVPXT14V065S | 65 mm | | | | | | | | | | | | | | |
| QVVPXT16V211S | 2 1/16 in. | 22216 | 88.9 3.50 | 173.7 6.84 | 106.4 4.19 | 230.1 9.06 | 265.2 10.44 | 330.2 13.00 | 75.7 2.98 | 35.1 1.38 | 24 7/8 | 90.9 3.58 | 15.2 0.60 | 106.2 4.18 | 12.7 28 |
| QVVPXT16V212S | 2 ¾ in. | | | | | | | | | | | | | | |
| QVVPXT16V070S | 70 mm | | | | | | | | | | | | | | |
| QVVPXT16V215S | 2 1/16 in. | | | | | | | | | | | | | | |
| QVVPXT16V300S | 3 in. | | | | | | | | | | | | | | |
| QVVPXT16V075S | 75 mm | | | | | | | | | | | | | | |

⁽¹⁾Double-nut (QVV) part number shown. Single-nut (QV) version available upon request.

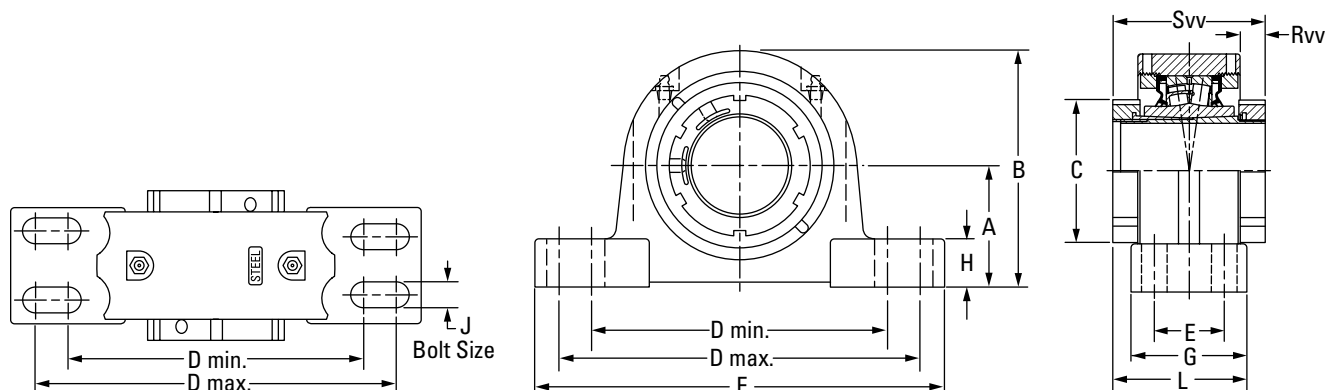
QVVPG SN-STYLE FOUR-BOLT PILLOW BLOCKS – TAPERED BORE EQUIVALENT



| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | E | F | G | H | J | L | Rvv | Svv | Wt. | |
|---------------------------------|-------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|--|
| | 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. | mm in. | kg lbs. | |
| QVVPG11V115S | 1 15/16 in. | 22211 | 69.9 | 134.9 | 75.9 | 182.4 | 217.4 | 39.9 | 251.0 | 68.6 | 31.8 | 16 | 85.3 | 20.8 | 102.1 | 8.6 | |
| QVVPG11V200S | 2 in. | | 2.75 | 5.31 | 2.99 | 7.18 | 8.56 | 1.57 | 9.88 | 2.70 | 1.25 | 5/8 | 3.36 | 0.82 | 4.02 | 19 | |
| QVVPG11V050S | 50 mm | | | | | | | | | | | | | | | | |
| QVVPG12V055S | 55 mm | 22212 | 70.0 | 140.5 | 80.0 | 177.8 | 219.2 | 35.1 | 254.0 | 69.9 | 31.8 | 12 | 86.1 | 20.8 | 102.1 | 9.9 | |
| QVVPG13V203S | 2 3/8 in. | 22213 | 80.0 | 154.9 | 80.3 | 182.4 | 217.4 | 48.0 | 261.9 | 82.6 | 35.1 | 16 | 92.5 | 17.0 | 102.1 | 11.3 | |
| QVVPG13V204S | 2 1/4 in. | | 3.15 | 6.10 | 3.16 | 7.18 | 8.56 | 1.89 | 10.31 | 3.25 | 1.38 | 5/8 | 3.64 | 0.67 | 4.02 | 25 | |
| QVVPG14V060S | 60 mm | 22214 | 80.0 | 154.9 | 94.0 | 182.4 | 217.4 | 48.0 | 261.9 | 82.6 | 35.1 | 16 | 93.2 | 13.7 | 103.9 | 11.3 | |
| QVVPG15V207S | 2 7/8 in. | 22215 | 80.0 | 162.1 | 94.0 | 201.7 | 246.1 | 39.6 | 276.4 | 79.5 | 30.2 | 16 | 91.7 | 15.7 | 103.9 | 13.2 | |
| QVVPG15V208S | 2 1/2 in. | | 3.15 | 6.38 | 3.70 | 7.94 | 9.69 | 1.56 | 10.88 | 3.13 | 1.19 | 5/8 | 3.61 | 0.62 | 4.09 | 29 | |
| QVVPG15V065S | 65 mm | | | | | | | | | | | | | | | | |
| QVVPG16V211S | 2 11/16 in. | 22216 | 95.0 | 180.3 | 105.9 | 235.0 | 266.7 | 50.0 | 315.0 | 89.9 | 31.8 | 16 | 98.0 | 16.8 | 105.9 | 14.9 | |
| QVVPG16V212S | 2 3/4 in. | | 3.74 | 7.10 | 4.17 | 9.25 | 10.50 | 1.97 | 12.4 | 3.54 | 1.25 | 5/8 | 3.86 | 0.66 | 4.17 | 33 | |
| QVVPG16V070S | 70 mm | | | | | | | | | | | | | | | | |
| QVVPG17V215S | 2 15/16 in. | 22217 | 95.0 | 182.9 | 106.4 | 240.0 | 287.3 | 52.3 | 320.8 | 92.2 | 31.8 | 20 | 99.3 | 15.0 | 106.2 | 16.8 | |
| QVVPG17V300S | 3 in. | | 3.74 | 7.20 | 4.19 | 9.44 | 11.31 | 2.06 | 12.63 | 3.63 | 1.25 | 3/4 | 3.91 | 0.59 | 4.18 | 37 | |
| QVVPG17V075S | 75 mm | | | | | | | | | | | | | | | | |
| QVVPG19V303S | 3 3/8 in. | 22219 | 100.0 | 195.3 | 124.0 | 282.7 | 298.5 | 50.0 | 344.9 | 100.1 | 39.6 | 16 | 109.2 | 19.3 | 118.1 | 24.5 | |
| QVVPG19V304S | 3 1/4 in. | | 3.937 | 7.69 | 4.88 | 11.13 | 11.75 | 1.97 | 13.58 | 3.94 | 1.56 | 5/8 | 4.30 | 0.76 | 4.65 | 54 | |
| QVVPG19V080S | 80 mm | | | | | | | | | | | | | | | | |
| QVVPG19V085S | 85 mm | 22219 | 112.0 | 212.3 | 124.0 | 282.7 | 298.5 | 50.0 | 344.9 | 100.1 | 39.6 | 16 | 109.2 | 17.8 | 118.1 | 25.4 | |
| QVVPG20V307S | 3 7/8 in. | 22220 | 112.0 | 214.6 | 124.5 | 276.4 | 339.9 | 60.5 | 381.0 | 109.5 | 39.6 | 20 | 113.5 | 11.2 | 117.6 | 31.8 | |
| QVVPG20V308S | 3 1/2 in. | | 4.409 | 8.45 | 4.90 | 10.88 | 13.38 | 2.38 | 15.00 | 4.31 | 1.56 | 3/4 | 4.47 | 0.44 | 4.63 | 70 | |
| QVVPG20V090S | 90 mm | | | | | | | | | | | | | | | | |
| QVVPG22V311S | 3 11/16 in. | 22222 | 125.0 | 238.3 | 139.7 | 301.8 | 368.3 | 69.9 | 409.7 | 120.7 | 44.5 | 20 | 125.5 | 14.5 | 130.3 | 39.5 | |
| QVVPG22V312S | 3 3/4 in. | | 4.921 | 9.38 | 5.50 | 11.88 | 14.50 | 2.75 | 16.13 | 4.75 | 1.75 | 3/4 | 4.94 | 0.57 | 5.13 | 87 | |
| QVVPG22V100S | 100 mm | | | | | | | | | | | | | | | | |
| QVVPG22V315S | 3 15/16 in. | | | | | | | | | | | | | | | | |
| QVVPG22V400S | 4 in. | | | | | | | | | | | | | | | | |
| QVVPG24V110S | 110 mm | 22224 | 140.0 | 262.9 | 174.8 | 330.2 | 355.6 | 70.1 | 410.0 | 120.7 | 50.8 | 16 | 149.6 | 40.4 | 178.3 | 49.9 | |
| QVVPG26V407S | 4 7/8 in. | 22226 | 150.0 | 281.7 | 174.8 | 367.3 | 400.1 | 81.0 | 444.5 | 128.0 | 49.3 | 24 | 153.2 | 36.6 | 178.3 | 61.7 | |
| QVVPG26V408S | 4 1/2 in. | | 5.906 | 11.09 | 6.88 | 14.46 | 15.75 | 3.19 | 17.50 | 5.04 | 1.94 | 1 | 6.03 | 1.44 | 7.02 | 136 | |
| QVVPG26V115S | 115 mm | | | | | | | | | | | | | | | | |
| QVVPG28V125S | 125 mm | 22228 | 150.0 | 288.5 | 190.0 | 384.3 | 447.8 | 80.0 | 500.4 | 128.0 | 49.3 | 24 | 152.9 | 31.8 | 178.3 | 61.7 | |
| QVVPG28V415S | 4 15/16 in. | | 5.906 | 11.36 | 7.48 | 15.13 | 17.63 | 3.15 | 19.70 | 5.04 | 1.94 | 1 | 6.02 | 1.25 | 7.02 | 136 | |
| QVVPG28V500S | 5 in. | | | | | | | | | | | | | | | | |
| QVVPG28V130S | 130 mm | | | | | | | | | | | | | | | | |

⁽¹⁾Double-nut (QVV) part number shown. Single-nut (QV) version available upon request.

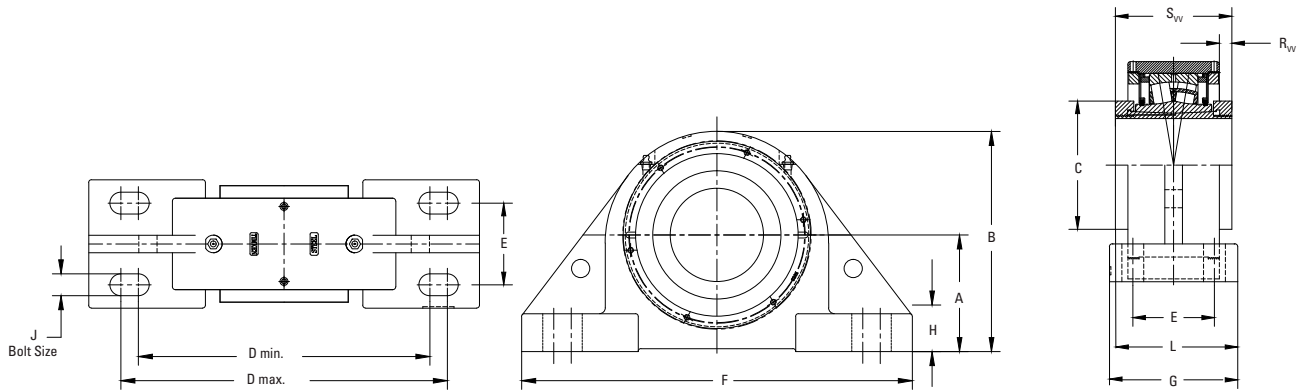
QVVPH SAF-STYLE FOUR-BOLT PILLOW BLOCKS – TAPERED BORE EQUIVALENT



| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | E | F | G | H | J | L | Rvv | Svv | Wt. |
|---------------------------------|------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| | 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. | mm in. | kg lbs. |
| QVVPH11V115S | 1 1/8 in. | 22211 | 69.9 | 134.9 | 75.9 | 182.4 | 217.4 | 39.9 | 251.0 | 68.6 | 31.8 | 16 | 85.3 | 20.8 | 102.1 | 8.6 |
| QVVPH11V200S | 2 in. | | 2.75 | 5.31 | 2.99 | 7.18 | 8.56 | 1.57 | 9.88 | 2.70 | 1.25 | 5/8 | 3.36 | 0.82 | 4.02 | 19 |
| QVVPH11V050S | 50 mm | | | | | | | | | | | | | | | |
| QVVPH13V203S | 2 3/8 in. | 22213 | 76.2 | 151.1 | 80.3 | 182.4 | 217.4 | 50.8 | 261.9 | 82.6 | 31.2 | 12 | 92.5 | 17.0 | 102.1 | 11.3 |
| QVVPH13V204S | 2 1/2 in. | | 3.00 | 5.95 | 3.16 | 7.18 | 8.56 | 2.00 | 10.31 | 3.25 | 1.23 | 1/2 | 3.64 | 0.67 | 4.02 | 25 |
| QVVPH13V055S | 55 mm | | | | | | | | | | | | | | | |
| QVVPH15V060S | 60 mm | 22215 | 82.6 | 162.1 | 94.0 | 201.7 | 246.1 | 47.8 | 276.4 | 79.5 | 32.8 | 12 | 91.7 | 18.0 | 103.9 | 13.2 |
| QVVPH15V207S | 2 7/8 in. | | 3.25 | 6.38 | 3.70 | 7.94 | 9.69 | 1.88 | 10.88 | 3.13 | 1.29 | 1/2 | 3.61 | 0.71 | 4.09 | 29 |
| QVVPH15V208S | 2 1/2 in. | | | | | | | | | | | | | | | |
| QVVPH15V065S | 65 mm | 22216 | 88.9 | 176.7 | 109.2 | 228.6 | 279.4 | 54.0 | 300.2 | 72.6 | 31.8 | 16 | 96.3 | 15.5 | 103.9 | 14.9 |
| QVVPH16V211S | 2 1/8 in. | | 3.50 | 6.96 | 4.30 | 9.00 | 11.00 | 2.13 | 13.00 | 2.86 | 1.25 | 5/8 | 3.79 | 0.61 | 4.09 | 33 |
| QVVPH16V212S | 2 3/4 in. | | | | | | | | | | | | | | | |
| QVVPH16V070S | 70 mm | 22217 | 95.3 | 182.9 | 106.4 | 240.0 | 287.3 | 54.1 | 320.8 | 92.2 | 32.0 | 16 | 99.3 | 15.0 | 106.2 | 16.8 |
| QVVPH17V215S | 2 1/8 in. | | 3.75 | 7.20 | 4.19 | 9.44 | 11.31 | 2.13 | 12.63 | 3.63 | 1.26 | 5/8 | 3.91 | 0.59 | 4.18 | 37 |
| QVVPH17V300S | 3 in. | | | | | | | | | | | | | | | |
| QVVPH17V075S | 75 mm | 22219 | 101.6 | 202.2 | 124.5 | 254.0 | 298.5 | 54.0 | 349.3 | 98.4 | 41.3 | 16 | 106.3 | 17.2 | 114.1 | 24.5 |
| QVVPH19V303S | 3 3/8 in. | | 4.00 | 7.96 | 4.90 | 10.00 | 11.75 | 2.13 | 13.75 | 3.88 | 1.63 | 5/8 | 4.18 | 0.68 | 4.49 | 54 |
| QVVPH19V304S | 3 1/4 in. | | | | | | | | | | | | | | | |
| QVVPH19V080S | 80 mm | 22220 | 114.3 | 216.9 | 124.5 | 276.4 | 339.9 | 60.5 | 381.0 | 109.5 | 41.9 | 20 | 113.5 | 11.2 | 117.6 | 31.8 |
| QVVPH20V303S | 3 3/8 in. | | 4.50 | 8.54 | 4.90 | 10.88 | 13.38 | 2.38 | 15.00 | 4.31 | 1.65 | 3/4 | 4.47 | 0.44 | 4.63 | 70 |
| QVVPH20V304S | 3 1/4 in. | | | | | | | | | | | | | | | |
| QVVPH20V080S | 80 mm | 22222 | 125.5 | 238.3 | 139.7 | 301.8 | 368.3 | 69.9 | 406.4 | 120.7 | 45.0 | 20 | 125.5 | 14.5 | 130.3 | 39.5 |
| QVVPH20V085S | 85 mm | | 4.94 | 9.38 | 5.50 | 11.88 | 14.50 | 2.75 | 16.00 | 4.75 | 1.77 | 3/4 | 4.94 | 0.57 | 5.13 | 87 |
| QVVPH20V307S | 3 7/8 in. | | | | | | | | | | | | | | | |
| QVVPH20V308S | 3 1/2 in. | 22224 | 133.4 | 256.8 | 174.6 | 301.8 | 368.3 | 69.9 | 419.1 | 120.7 | 50.8 | 20 | 149.5 | 40.3 | 178.3 | 49.9 |
| QVVPH20V090S | 90 mm | | 5.25 | 10.11 | 6.87 | 11.88 | 14.50 | 2.75 | 16.50 | 4.75 | 2.00 | 3/4 | 5.89 | 1.59 | 7.02 | 110 |
| QVVPH22V311S | 3 1/8 in. | | | | | | | | | | | | | | | |
| QVVPH22V312S | 3 3/8 in. | 22226 | 152.4 | 284.0 | 174.8 | 362.0 | 400.1 | 82.6 | 444.5 | 128.0 | 51.8 | 22 | 153.2 | 36.6 | 178.3 | 61.7 |
| QVVPH22V100S | 100 mm | | 6.00 | 11.18 | 6.88 | 14.25 | 15.75 | 3.25 | 17.50 | 5.04 | 2.04 | 7/8 | 6.03 | 1.44 | 7.02 | 136 |
| QVVPH22V315S | 3 1/8 in. | | | | | | | | | | | | | | | |
| QVVPH22V400S | 4 in. | 22228 | 152.4 | 290.8 | 190.0 | 406.4 | 435.1 | 85.9 | 500.4 | 128.0 | 51.8 | 24 | 152.9 | 31.8 | 178.3 | 61.7 |
| QVVPH28V125S | 125 mm | | 6.00 | 11.45 | 7.48 | 16.00 | 17.13 | 3.38 | 19.70 | 5.04 | 2.04 | 1 | 6.02 | 1.25 | 7.02 | 136 |
| QVVPH28V415S | 4 1/8 in. | | | | | | | | | | | | | | | |
| QVVPH28V500S | 5 in. | | | | | | | | | | | | | | | |
| QVVPH28V130S | 130 mm | | | | | | | | | | | | | | | |

⁽¹⁾Double-nut (QVV) part number shown. Single-nut (QV) version available upon request.

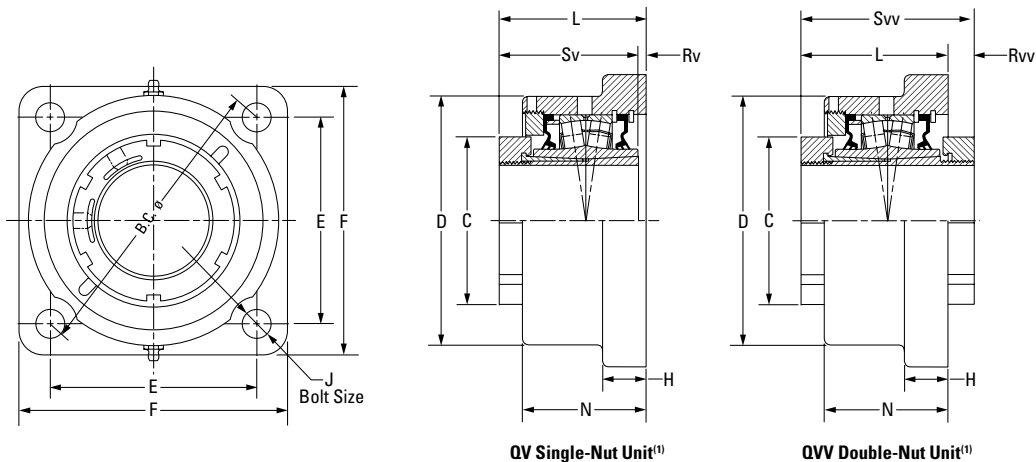
QVVPK 9000 SERIES FOUR-BOLT PILLOW BLOCKS – TAPERED BORE EQUIVALENT



| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | E | F | G | H | J | L | Rvv | Svv | Wt. |
|---------------------------------|-------------|-------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|--------------|-----------|---------------|--------------|---------------|-------------|
| | 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. | mm in. | kg lbs. |
| QVVPK15V060S | 60 mm | 22215 | 88.9 3.50 | 176.0 6.83 | 94.0 3.70 | 230.1 9.06 | 265.2 10.44 | 69.9 2.75 | 330.2 13.00 | 108.0 4.25 | 39.1 1.54 | 20 ¾ | 105.9 4.17 | 12.6 0.51 | 103.9 4.09 | 13.2 29 |
| QVVPK15V207S | 2 7/16 in. | | | | | | | | | | | | | | | |
| QVVPK15V208S | 2 1/2 in. | | | | | | | | | | | | | | | |
| QVVPK15V065S | 65 mm | 22217 | 101.6 4.00 | 201.2 7.92 | 106.4 4.19 | 274.6 10.81 | 309.6 12.19 | 76.2 3.00 | 381.0 15.00 | 120.7 4.75 | 38.1 1.50 | 20 ¾ | 113.5 4.47 | 8.64 0.34 | 106.2 4.18 | 16.8 37 |
| QVVPK17V211S | 2 11/16 in. | | | | | | | | | | | | | | | |
| QVVPK17V212S | 2 3/4 in. | | | | | | | | | | | | | | | |
| QVVPK17V070S | 70 mm | 22220 | 127.0 5.00 | 240.0 9.44 | 124.5 4.90 | 317.5 12.50 | 355.6 14.00 | 88.9 3.50 | 425.5 16.75 | 139.7 5.50 | 41.4 1.63 | 24 7/8 | 128.8 5.07 | 8.9 0.35 | 117.6 4.63 | 31.8 70 |
| QVVPK20V303S | 3 3/16 in. | | | | | | | | | | | | | | | |
| QVVPK20V304S | 3 1/4 in. | | | | | | | | | | | | | | | |
| QVVPK20V080S | 80 mm | 22222 | 146.1 5.75 | 273.8 10.78 | 139.7 5.50 | 354.1 13.94 | 395.2 15.56 | 101.6 4.00 | 469.9 18.50 | 158.8 6.25 | 45.7 1.80 | 24 1 | 138.4 5.45 | 14.5 0.57 | 130.3 5.13 | 39.5 87 |
| QVVPK20V085S | 85 mm | | | | | | | | | | | | | | | |
| QVVPK20V307S | 3 7/16 in. | | | | | | | | | | | | | | | |
| QVVPK20V308S | 3 1/2 in. | 22226 | 155.7 6.13 | 283.2 11.15 | 174.8 6.88 | 387.4 15.25 | 425.5 16.75 | 108.0 4.25 | 514.4 20.25 | 171.5 6.75 | 50.8 2.00 | 24 1 | 175.3 6.90 | 31.5 1.24 | 178.3 7.02 | 61.7 136 |
| QVVPK20V090S | 90 mm | | | | | | | | | | | | | | | |
| QVVPK22V311S | 3 11/16 in. | | | | | | | | | | | | | | | |
| QVVPK22V312S | 3 3/4 in. | | | | | | | | | | | | | | | |
| QVVPK22V100S | 100 mm | | | | | | | | | | | | | | | |
| QVVPK22V315S | 3 15/16 in. | | | | | | | | | | | | | | | |
| QVVPK22V400S | 4 in. | | | | | | | | | | | | | | | |
| QVVPK26V110S | 110 mm | | | | | | | | | | | | | | | |
| QVVPK26V407S | 4 7/16 in. | | | | | | | | | | | | | | | |
| QVVPK26V408S | 4 1/2 in. | | | | | | | | | | | | | | | |
| QVVPK26V115S | 115 mm | | | | | | | | | | | | | | | |

⁽¹⁾Double-nut (QVV) part number shown. Single-nut (QV) version available upon request.

QVF AND QVVF SQUARE FLANGE BLOCKS – STRAIGHT BORE EQUIVALENT

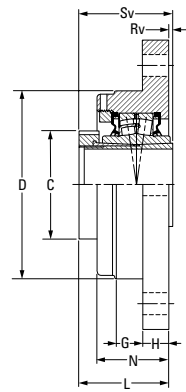
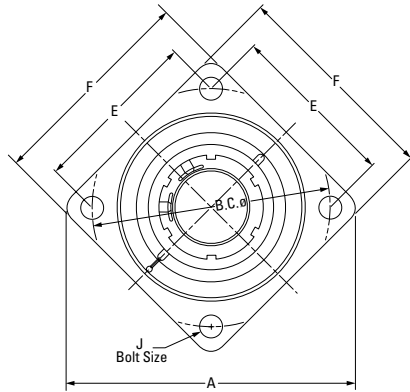


| Bearing Part No. ⁽¹⁾⁽²⁾ | Shaft Dia. | Bearing No. | C | D | E | B.C. | F | H | J | L FIX | L EXP | N | Rv ⁽¹⁾ | Rvv | Sv ⁽¹⁾ | Svv | Wt. |
|------------------------------------|-------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------|-------------------|--------|---------|
| | 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. | mm in. | mm in. | kg lbs. |
| QVF11V115S | 1 15/16 in. | 22211 | 75.9 | 120.7 | 111.3 | 157.0 | 139.7 | 22.4 | 12 | 84.1 | 86.1 | 65.0 | 4.1 | 18.3 | 79.8 | 102.1 | 5.0 |
| QVF11V200S | 2 in. | | 2.99 | 4.75 | 4.38 | 6.18 | 5.50 | 0.88 | 1/2 | 3.31 | 3.39 | 2.56 | 0.16 | 0.72 | 3.14 | 4.02 | 11 |
| QVF11V050S | 50 mm | | | | | | | | | | | | | | | | |
| QVF12V203S | 2 3/8 in. | 22212 | 80.3 | 130.3 | 124.0 | 175.0 | 157.2 | 25.4 | 16 | 84.3 | 86.4 | 66.8 | 4.6 | 17.8 | 79.8 | 102.1 | 6.4 |
| QVF12V204S | 2 1/4 in. | | 3.16 | 5.13 | 4.88 | 6.89 | 6.19 | 1.00 | 5/8 | 3.32 | 3.40 | 2.63 | 0.18 | 0.70 | 3.14 | 4.02 | 14 |
| QVF12V055S | 55 mm | | | | | | | | | | | | | | | | |
| QVF14V060S | 60 mm | 22214 | 94.0 | 146.1 | 136.7 | 193.0 | 168.4 | 25.4 | 16 | 85.1 | 87.1 | 72.4 | 4.1 | 16.0 | 81.0 | 101.3 | 7.7 |
| QVF14V207S | 2 7/8 in. | | 3.70 | 5.75 | 5.38 | 7.60 | 6.63 | 1.00 | 5/8 | 3.35 | 3.43 | 2.85 | 0.16 | 0.63 | 3.19 | 3.99 | 17 |
| QVF14V208S | 2 1/2 in. | | | | | | | | | | | | | | | | |
| QVF14V065S | 65 mm | | | | | | | | | | | | | | | | |
| QVF16V211S | 2 11/16 in. | 22216 | 106.4 | 168.9 | 152.4 | 215.4 | 189.0 | 26.9 | 20 | 87.6 | 89.7 | 75.7 | 4.1 | 16.3 | 83.6 | 103.6 | 10.4 |
| QVF16V212S | 2 3/4 in. | | 4.19 | 6.65 | 6.00 | 8.48 | 7.44 | 1.06 | 3/4 | 3.45 | 3.53 | 2.98 | 0.16 | 0.64 | 3.29 | 4.08 | 23 |
| QVF16V070S | 70 mm | | | | | | | | | | | | | | | | |
| QVF16V215S | 2 15/16 in. | | | | | | | | | | | | | | | | |
| QVF16V300S | 3 in. | | | | | | | | | | | | | | | | |
| QVF16V075S | 75 mm | | | | | | | | | | | | | | | | |
| QVF19V303S | 3 3/8 in. | 22219 | 124.5 | 193.8 | 177.8 | 251.7 | 219.2 | 33.3 | 20 | 98.3 | 100.3 | 84.1 | 4.6 | 15.7 | 93.7 | 114.0 | 15.9 |
| QVF19V304S | 3 1/4 in. | | 4.90 | 7.63 | 7.00 | 9.91 | 8.63 | 1.31 | 3/4 | 3.87 | 3.95 | 3.31 | 0.18 | 0.62 | 3.69 | 4.49 | 35 |
| QVF19V080S | 80 mm | | | | | | | | | | | | | | | | |
| QVF19V085S | 85 mm | | | | | | | | | | | | | | | | |
| QVF19V307S | 3 7/8 in. | | | | | | | | | | | | | | | | |
| QVF19V308S | 3 1/2 in. | | | | | | | | | | | | | | | | |
| QVF19V090S | 90 mm | | | | | | | | | | | | | | | | |
| QVF22V311S | 3 11/16 in. | 22222 | 139.7 | 224.0 | 196.9 | 278.4 | 253.2 | 38.1 | 24 | 114.0 | 116.1 | 103.1 | 9.1 | 12.7 | 104.9 | 126.7 | 24.9 |
| QVF22V312S | 3 3/4 in. | | 5.50 | 8.82 | 7.75 | 10.96 | 9.97 | 1.50 | 7/8 | 4.49 | 4.57 | 4.06 | 0.36 | 0.50 | 4.13 | 4.99 | 55 |
| QVF22V100S | 100 mm | | | | | | | | | | | | | | | | |
| QVF22V315S | 3 15/16 in. | | | | | | | | | | | | | | | | |
| QVF22V400S | 4 in. | | | | | | | | | | | | | | | | |
| QVF26V110S | 110 mm | 22226 | 174.8 | 256.8 | 222.3 | 314.5 | 276.4 | 38.1 | 24 | 140.5 | 142.7 | 106.9 | 7.4 | 37.8 | 147.8 | 178.3 | 28.6 |
| QVF26V407S | 4 7/8 in. | | 6.88 | 10.11 | 8.75 | 12.38 | 10.88 | 1.50 | 7/8 | 5.53 | 5.62 | 4.21 | 0.29 | 1.49 | 5.82 | 7.02 | 63 |
| QVF26V408S | 4 1/2 in. | | | | | | | | | | | | | | | | |
| QVF26V115S | 115 mm | | | | | | | | | | | | | | | | |

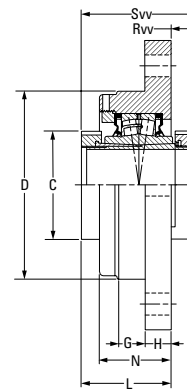
⁽¹⁾Bearing part numbers use QV to designate single-nut units (uses Rv and Sv dimensions) and QVV to designate double-nut units (uses Rvv and Svv dimensions).

⁽²⁾Single-nut (QV) part number shown. Double-nut (QVV) version available upon request.

QVFB AND QVVFB SQUARE FLANGE BLOCKS – TAPERED ADAPTER EQUIVALENT



QV Single-Nut Unit⁽¹⁾



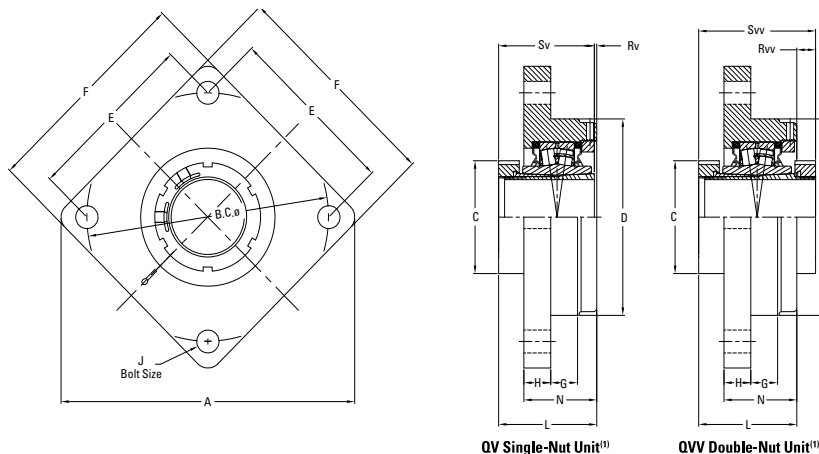
QVV Double-Nut Unit⁽¹⁾

| Bearing Part No. ⁽¹⁾⁽²⁾ | Shaft Dia. | Bearing No. | A | B.C. | C | D | E | F | G | H | J | L | N | Rv ⁽¹⁾ | Rvv | Sv ⁽¹⁾ | Sv | Wt. |
|------------------------------------|---------------|-------------|-----------------------|-----------------------|----------------------|-----------------------|----------------------|-----------------------|---------------------|---------------------|------------------|----------------------|----------------------|---------------------|---------------------|----------------------|----------------------|-------------------|
| | | | 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. | mm in. | mm in. | mm in. |
| QVFB15V060S | 60 mm | 22215 | 255.0 10.04 | 215.1 8.47 | 94.0 3.70 | 169.9 6.69 | 152.4 6.00 | 192.0 7.56 | 25.4 1.00 | 23.9 0.94 | 16 % | 81.5 3.21 | 64.8 2.55 | 0.8 0.03 | 22.4 0.88 | 82.6 3.25 | 103.9 4.09 | 11.3 25 |
| QVFB15V207S | 2 7/16 in. | | | | | | | | | | | | | | | | | |
| QVFB15V208S | 2 1/2 in. | | | | | | | | | | | | | | | | | |
| QVFB15V065S | 65 mm | | | | | | | | | | | | | | | | | |
| QVFB17V211S | 2 11/16 in. | 22217 | 282.4 11.12 | 240.0 9.45 | 106.4 4.19 | 190.0 7.48 | 169.7 6.68 | 212.1 8.35 | 25.4 1.00 | 25.4 1.00 | 16 % | 83.8 3.30 | 69.9 2.75 | 1.0 0.04 | 22.4 0.88 | 84.6 3.33 | 106.2 4.18 | 13.6 30 |
| QVFB17V212S | 2 3/4 in. | | | | | | | | | | | | | | | | | |
| QVFB17V070S | 70 mm | | | | | | | | | | | | | | | | | |
| QVFB17V215S | 2 9/16 in. | | | | | | | | | | | | | | | | | |
| QVFB17V300S | 3 in. | 22220 | 330.2 13.00 | 279.9 11.02 | 124.5 4.90 | 230.1 9.06 | 197.9 7.79 | 247.9 9.76 | 31.8 1.25 | 28.7 1.13 | 20 3/4 | 106.7 4.20 | 94.2 3.71 | 11.4 0.45 | 10.9 0.43 | 95.3 3.75 | 117.3 4.62 | 18.1 40 |
| QVFB17V075S | 75 mm | | | | | | | | | | | | | | | | | |
| QVFB20V303S | 3 3/16 in. | | | | | | | | | | | | | | | | | |
| QVFB20V304S | 3 1/4 in. | | | | | | | | | | | | | | | | | |
| QVFB20V080S | 80 mm | 22222 | 367.0 14.45 | 309.9 12.20 | 139.7 5.50 | 255.0 10.04 | 219.2 8.63 | 274.3 10.80 | 44.5 1.75 | 26.4 1.04 | 20 3/4 | 112.0 4.41 | 101.1 3.98 | 7.4 0.29 | 14.7 0.58 | 104.9 4.13 | 126.7 4.99 | 27.2 60 |
| QVFB20V085S | 85 mm | | | | | | | | | | | | | | | | | |
| QVFB20V307S | 3 7/16 in. | | | | | | | | | | | | | | | | | |
| QVFB20V308S | 3 1/2 in. | | | | | | | | | | | | | | | | | |
| QVFB20V090S | 90 mm | 22226 | 416.1 16.38 | 355.1 13.98 | 174.8 6.88 | 290.1 11.42 | 251.0 9.88 | 298.5 11.75 | 41.9 1.65 | 32.0 1.26 | 24 % | 148.3 5.84 | 114.3 4.50 | 0.5 0.02 | 30.0 1.18 | 147.8 5.82 | 178.3 7.02 | 42.6 94 |
| QVFB22V311S | 3 11/16 in. | | | | | | | | | | | | | | | | | |
| QVFB22V312S | 3 3/4 in. | | | | | | | | | | | | | | | | | |
| QVFB22V100S | 100 mm | | | | | | | | | | | | | | | | | |
| QVFB22V315S | 3 15/16 in. | | | | | | | | | | | | | | | | | |
| QVFB22V400S | 4 in. | | | | | | | | | | | | | | | | | |
| QVFB26V110S | 110 mm | | | | | | | | | | | | | | | | | |
| QVFB26V407S | 4 7/16 in. | | | | | | | | | | | | | | | | | |
| QVFB26V408S | 4 1/2 in. | | | | | | | | | | | | | | | | | |
| QVFB26V115S | 115 mm | | | | | | | | | | | | | | | | | |

⁽¹⁾Bearing part numbers use QV to designate single-nut units (uses Rv and Sv dimensions) and QVV to designate double-nut units (uses Rvv and Sv dimensions).

⁽²⁾Single-nut (QV) part number shown. Double-nut (QVV) version available upon request.

QVFC AND QVVFC PILOTED FLANGE CARTRIDGES – TAPERED ADAPTER EQUIVALENT



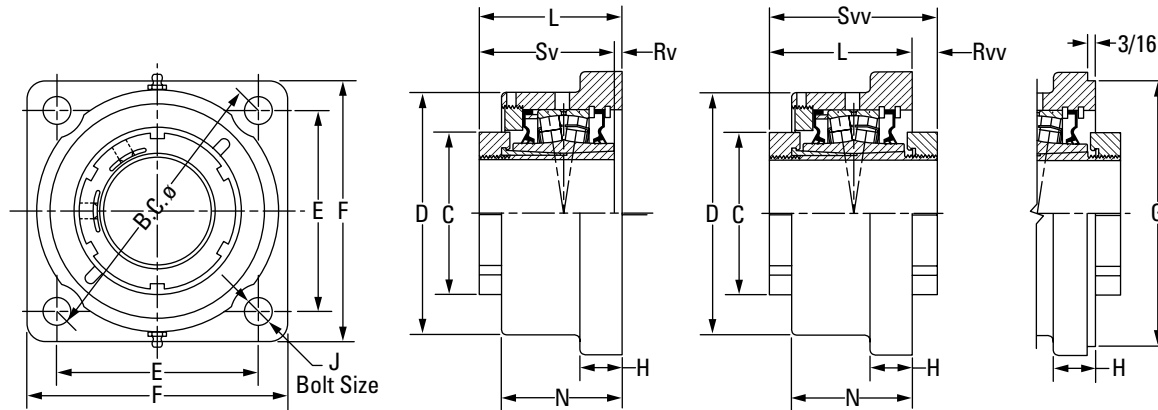
| Bearing Part No. ⁽¹⁾⁽²⁾ | Shaft Dia. | Bearing No. | A | B.C. | C | D ⁽³⁾ | E | F | G | H | J | L | N | Rv ⁽¹⁾ | Rvv | Sv ⁽¹⁾ | Svv | Wt. | |
|------------------------------------|-------------|-------------|----------------|----------------|---------------|------------------|---------------|----------------|--------------|--------------|-----------|---------------|---------------|-------------------|--------------|-------------------|---------------|------------|--|
| | 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. | mm in. | mm in. | mm in. | kg lbs. | |
| QVFC15V060S | 60 mm | 22215 | 255.0 10.04 | 215.1 8.47 | 94.0 3.70 | 169.9 6.690 | 152.4 6.00 | 192.0 7.56 | 25.4 1.00 | 23.9 0.94 | 16 % | 87.1 3.43 | 64.8 2.55 | 4.6 0.18 | 16.8 0.66 | 82.6 3.25 | 103.9 4.09 | 11.3 25 | |
| QVFC15V207S | 2 7/16 in. | | | | | | | | | | | | | | | | | | |
| QVFC15V208S | 2 1/2 in. | | | | | | | | | | | | | | | | | | |
| QVFC15V065S | 65 mm | | | | | | | | | | | | | | | | | | |
| QVFC17V211S | 2 11/16 in. | 22217 | 282.4 11.12 | 240.0 9.45 | 106.4 4.19 | 190.0 7.480 | 169.7 6.68 | 212.1 8.35 | 25.4 1.00 | 25.4 1.00 | 16 % | 91.7 3.61 | 69.9 2.75 | 6.6 0.26 | 14.5 0.57 | 84.6 3.33 | 106.2 4.18 | 13.6 30 | |
| QVFC17V212S | 2 3/4 in. | | | | | | | | | | | | | | | | | | |
| QVFC17V070S | 70 mm | | | | | | | | | | | | | | | | | | |
| QVFC17V215S | 2 15/16 in. | | | | | | | | | | | | | | | | | | |
| QVFC17V300S | 3 in. | 22220 | 330.2 13.00 | 279.9 11.02 | 124.5 4.90 | 230.1 9.060 | 197.9 7.79 | 247.9 9.76 | 31.8 1.25 | 28.7 1.13 | 20 3/4 | 105.2 4.14 | 94.2 3.71 | 9.7 0.38 | 12.4 0.49 | 95.3 3.75 | 117.3 4.62 | 18.1 40 | |
| QVFC17V075S | 75 mm | | | | | | | | | | | | | | | | | | |
| QVFC20V303S | 3 3/16 in. | | | | | | | | | | | | | | | | | | |
| QVFC20V304S | 3 1/4 in. | | | | | | | | | | | | | | | | | | |
| QVFC20V080S | 80 mm | 22222 | 367.0 14.45 | 309.9 12.20 | 139.7 5.50 | 255.0 10.040 | 219.2 8.63 | 274.3 10.80 | 44.5 1.75 | 26.4 1.04 | 20 3/4 | 112.8 4.44 | 101.1 3.98 | 8.1 0.32 | 5.8 0.23 | 104.9 4.13 | 126.7 4.99 | 27.2 60 | |
| QVFC20V085S | 85 mm | | | | | | | | | | | | | | | | | | |
| QVFC20V307S | 3 7/16 in. | | | | | | | | | | | | | | | | | | |
| QVFC20V308S | 3 1/2 in. | | | | | | | | | | | | | | | | | | |
| QVFC20V090S | 90 mm | 22226 | 416.1 16.38 | 355.1 13.98 | 174.8 6.88 | 290.0 11.417 | 251.0 9.88 | 298.5 11.75 | 41.9 1.65 | 32.0 1.26 | 24 % | 144.3 5.68 | 114.3 4.50 | 3.6 0.14 | 34.0 1.34 | 147.8 5.82 | 178.3 7.02 | 42.6 94 | |
| QVFC22V311S | 3 11/16 in. | | | | | | | | | | | | | | | | | | |
| QVFC22V312S | 3 3/4 in. | | | | | | | | | | | | | | | | | | |
| QVFC22V100S | 100 mm | | | | | | | | | | | | | | | | | | |
| QVFC22V315S | 3 15/16 in. | | | | | | | | | | | | | | | | | | |
| QVFC22V400S | 4 in. | | | | | | | | | | | | | | | | | | |
| QVFC26V110S | 110 mm | | | | | | | | | | | | | | | | | | |
| QVFC26V407S | 4 7/16 in. | | | | | | | | | | | | | | | | | | |
| QVFC26V408S | 4 1/2 in. | | | | | | | | | | | | | | | | | | |
| QVFC26V115S | 115 mm | | | | | | | | | | | | | | | | | | |

⁽¹⁾ Bearing part numbers use QV to designate single-nut units (uses Rv and Sv dimensions) and QVV to designate double-nut units (uses Rvv and Svv dimensions).

⁽²⁾ Single-nut (QV) part number shown. Double-nut (QVV) version available upon request.

⁽³⁾ Pilot tolerance: +0/-0.05 mm (+0/-0.002 in.).

QVFL AND QVVFL SQUARE FLANGE BLOCKS – STRAIGHT BORE EQUIVALENT



QV Single-Nut Unit⁽¹⁾

QVV Double-Nut Unit⁽¹⁾

| Bearing Part No. ⁽¹⁾⁽²⁾ | Shaft Dia. | Bearing No. | C | D | E | B.C. | F | G ⁽³⁾⁽⁴⁾⁽⁵⁾ | H | J | L FIX | L EXP | N | Rv ⁽¹⁾ | Rvv | Sv ⁽¹⁾ | Svv | Wt. | |
|------------------------------------|-------------|-------------|-----------|-----------|-----------|-----------|-----------|------------------------|-----------|-----------|-----------|-----------|-----------|-------------------|-----------|-------------------|-----------|-----------|-----------|
| | | | 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. | mm in. | mm in. | mm in. | mm in. |
| QVFL11V115S | 1 1/8 in. | 22211 | 75.9 | 115.3 | 103.4 | 146.1 | 131.8 | N/A | 23.1 | 12 | 82.6 | 84.6 | 61.2 | 2.5 | 19.8 | 79.8 | 102.1 | 5.0 | |
| QVFL11V200S | 2 in. | | 2.99 | 4.54 | 4.07 | 5.75 | 5.19 | | 0.91 | 1/2 | 3.25 | 3.33 | 2.41 | 0.10 | 0.78 | 3.14 | 4.02 | 11 | |
| QVFL11V050S | 50 mm | | | | | | | | | | | | | | | | | | |
| QVFL12V203S | 2 3/8 in. | 22212 | 80.3 | 130.3 | 114.6 | 162.1 | 149.4 | N/A | 19.1 | 16 | 84.3 | 86.4 | 66.8 | 4.6 | 17.8 | 79.8 | 102.1 | 6.4 | |
| QVFL12V204S | 2 1/4 in. | | 3.16 | 5.13 | 4.51 | 6.38 | 5.88 | | 0.75 | 3/8 | 3.32 | 3.40 | 2.63 | 0.18 | 0.70 | 3.14 | 4.02 | 14 | |
| QVFL12V055S | 55 mm | | | | | | | | | | | | | | | | | | |
| QVFL14V060S | 60 mm | 22214 | 94.0 | 146.1 | 121.2 | 171.5 | 157.2 | N/A | 25.4 | 16 | 86.1 | 88.1 | 72.6 | 5.1 | 15.2 | 81.0 | 101.3 | 7.7 | |
| QVFL14V207S | 2 7/8 in. | | 3.70 | 5.75 | 4.77 | 6.75 | 6.19 | | 1.00 | 3/8 | 3.39 | 3.47 | 2.86 | 0.20 | 0.60 | 3.19 | 3.99 | 17 | |
| QVFL14V208S | 2 1/2 in. | | | | | | | | | | | | | | | | | | |
| QVFL14V065S | 65 mm | | | | | | | | | | | | | | | | | | |
| QVFL16V211S | 2 11/16 in. | 22216 | 106.4 | 168.4 | 141.2 | 200.2 | 182.6 | N/A | 26.9 | 20 | 86.9 | 88.9 | 74.4 | 3.3 | 17.0 | 83.6 | 103.6 | 10.4 | |
| QVFL16V212S | 2 3/4 in. | | 4.19 | 6.63 | 5.56 | 7.88 | 7.19 | | 1.06 | 3/4 | 3.42 | 3.50 | 2.93 | 0.13 | 0.67 | 3.29 | 4.08 | 23 | |
| QVFL16V070S | 70 mm | | | | | | | | | | | | | | | | | | |
| QVFL16V215S | 2 15/16 in. | | | | | | | | | | | | | | | | | | |
| QVFL16V300S | 3 in. | | | | | | | | | | | | | | | | | | |
| QVFL16V075S | 75 mm | | | | | | | | | | | | | | | | | | |
| QVFL19V303S | 3 3/8 in. | 22219 | 124.5 | 193.8 | 170.7 | 241.3 | 212.9 | 187.33 | 32.5 | 20 | 97.3 | 99.3 | 86.4 | 3.6 | 17.0 | 93.7 | 114.0 | 15.9 | |
| QVFL19V304S | 3 1/4 in. | | 4.90 | 7.63 | 6.72 | 9.50 | 8.38 | | 7.375 | 1.28 | 3/4 | 3.83 | 3.91 | 3.40 | 0.14 | 0.67 | 3.69 | 4.49 | 35 |
| QVFL19V080S | 80 mm | | | | | | | | | | | | | | | | | | |
| QVFL19V085S | 85 mm | | | | | | | | | | | | | | | | | | |
| QVFL19V307S | 3 7/8 in. | | | | | | | | | | | | | | | | | | |
| QVFL19V308S | 3 1/2 in. | | | | | | | | | | | | | | | | | | |
| QVFL19V090S | 90 mm | | | | | | | | | | | | | | | | | | |
| QVFL22V311S | 3 11/16 in. | 22222 | 139.7 | 229.6 | 193.0 | 273.1 | 241.3 | 215.90 | 38.1 | 24 | 116.8 | 118.9 | 104.6 | 11.9 | 9.9 | 104.9 | 126.7 | 24.9 | |
| QVFL22V312S | 3 3/4 in. | | 5.50 | 9.04 | 7.60 | 10.75 | 9.50 | | 8.500 | 1.50 | 1 | 4.60 | 4.68 | 4.12 | 0.47 | 0.39 | 4.13 | 4.99 | 55 |
| QVFL22V100S | 100 mm | | | | | | | | | | | | | | | | | | |
| QVFL22V315S | 3 15/16 in. | | | | | | | | | | | | | | | | | | |
| QVFL22V400S | 4 in. | | | | | | | | | | | | | | | | | | |

⁽¹⁾Bearing part numbers use QV to designate single-nut units (uses Rv and Sv dimensions) and QVV to designate double-nut units (uses Rvv and Svv dimensions).

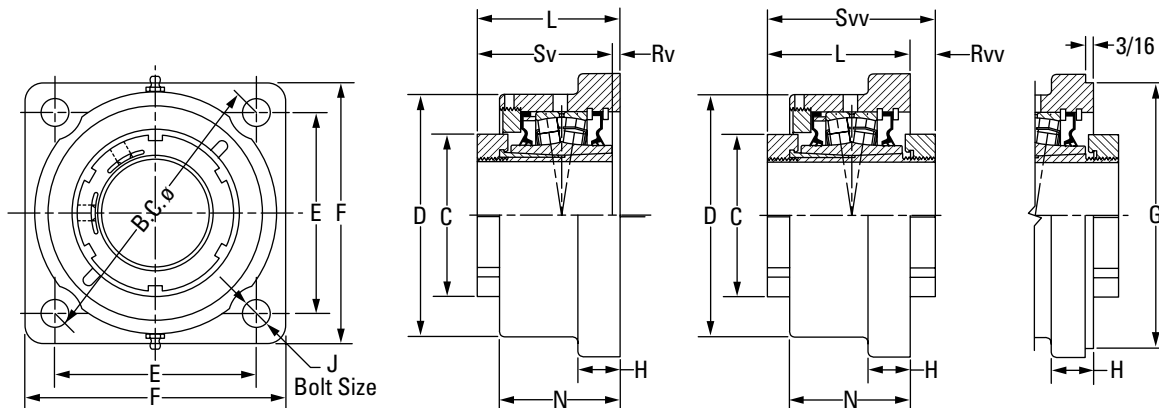
⁽²⁾Single-nut (QV) part number shown. Double-nut (QVV) version available upon request.

⁽³⁾Pilot tolerance: +0/-0.08 mm (+0/-0.003 in.).

⁽⁴⁾Add (p) to the end of the housing designation in the part number to order with pilot using G dimension.

⁽⁵⁾Piloted flange blocks will be quoted (price and delivery) upon request. For optional spigot on flange side, insert the letter P as seen in the following example: QMFP**J***S.

QVFX AND QVVF 5000 SERIES SQUARE FLANGE BLOCKS – STRAIGHT BORE EQUIVALENT



QV Single-Nut Unit⁽¹⁾

QVV Double-Nut Unit⁽¹⁾

| Bearing Part No. ⁽¹⁾⁽²⁾ | Shaft Dia. | Bearing No. | C | D | E | B.C. | F | G ⁽³⁾⁽⁴⁾⁽⁵⁾ | H | J | L FIX | L EXP | N | Rv ⁽¹⁾ | Rvv | Sv ⁽¹⁾ | Svv | Wt. | |
|------------------------------------|-------------|-------------|-----------|-----------|---------------------|----------------------|-----------|------------------------|-----------|----------------------|-----------|-----------|-----------|-------------------|-----------|-------------------|-----------|------------|--|
| | 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. | mm in. | mm in. | mm in. | kg lbs. | |
| QVFX11V115S | 1 1/16 in. | 22211 | 75.9 | 120.7 | 103.6 | 146.1 | 134.9 | 111.13 | 22.4 | 12 | 84.1 | 86.1 | 65.0 | 4.1 | 18.3 | 79.8 | 102.1 | 5.0 | |
| QVFX11V200S | 2 in. | | 2.99 | 4.75 | 4.08 | 5.75 | 5.31 | 4.375 | 0.88 | 1/2 | 3.31 | 3.39 | 2.56 | 0.16 | 0.72 | 3.14 | 4.02 | 11 | |
| QVFX11V050S | 50 mm | | | | | | | | | | | | | | | | | | |
| QVFX12V203S | 2 3/16 in. | 22212 | 80.3 | 130.3 | 114.3 | 161.5 | 149.4 | 127.00 | 25.4 | 16 | 84.3 | 86.4 | 66.8 | 4.6 | 17.5 | 79.8 | 102.1 | 6.4 | |
| QVFX12V204S | 2 1/4 in. | | 3.16 | 5.13 | 4.50 | 6.36 | 5.88 | 5.000 | 1.00 | 5/8 | 3.32 | 3.40 | 2.63 | 0.18 | 0.69 | 3.14 | 4.02 | 14 | |
| QVFX12V055S | 55 mm | | | | | | | | | | | | | | | | | | |
| QVFX14V060S | 60 mm | 22214 | 94.0 | 146.1 | 127.8 | 180.8 | 157.2 | 138.13 | 25.4 | 16 | 85.1 | 87.4 | 72.4 | 4.1 | 16.0 | 81.0 | 101.3 | 7.7 | |
| QVFX14V207S | 2 7/16 in. | | 3.70 | 5.75 | 5.03 | 7.12 | 6.19 | 5.438 | 1.00 | 5/8 | 3.35 | 3.44 | 2.85 | 0.16 | 0.63 | 3.19 | 3.99 | 17 | |
| QVFX14V208S | 2 1/2 in. | | | | | | | | | | | | | | | | | | |
| QVFX14V065S | 65 mm | | | | | | | | | | | | | | | | | | |
| QVFX16V211S | 2 11/16 in. | 22216 | 106.4 | 168.9 | 152.7 | 215.9 | 189.0 | 160.35 | 26.9 | 20 | 87.6 | 89.7 | 76.2 | 4.1 | 16.3 | 83.6 | 103.6 | 10.4 | |
| QVFX16V212S | 2 3/4 in. | | 4.19 | 6.65 | 6.01 | 8.50 | 7.44 | 6.313 | 1.06 | 3/4 | 3.45 | 3.53 | 3.00 | 0.16 | 0.64 | 3.29 | 4.08 | 23 | |
| QVFX16V070S | 70 mm | | | | | | | | | | | | | | | | | | |
| QVFX16V215S | 2 15/16 in. | | | | | | | | | | | | | | | | | | |
| QVFX16V300S | 3 in. | 22219 | 124.5 | 193.8 | 170.7 | 241.3 | 212.6 | 187.33 | 33.3 | 20 | 98.3 | 100.6 | 84.1 | 4.8 | 15.7 | 93.7 | 114.0 | 15.9 | |
| QVFX16V075S | 75 mm | | 4.90 | 7.63 | 6.72 | 9.50 | 8.37 | 7.375 | 1.31 | 3/4 | 3.87 | 3.96 | 3.31 | 0.19 | 0.62 | 3.69 | 4.49 | 35 | |
| QVFX19V303S | 3 3/16 in. | | | | | | | | | | | | | | | | | | |
| QVFX19V304S | 3 1/4 in. | | | | | | | | | | | | | | | | | | |
| QVFX19V080S | 80 mm | | | | | | | | | | | | | | | | | | |
| QVFX19V085S | 85 mm | | | | | | | | | | | | | | | | | | |
| QVFX19V307S | 3 7/16 in. | | | | | | | | | | | | | | | | | | |
| QVFX19V308S | 3 1/2 in. | | | | | | | | | | | | | | | | | | |
| QVFX19V090S | 90 mm | 22222 | 139.7 | 235.0 | 211.1 | 298.5 | 268.2 | 225.43 | 38.1 | 24 | 114.0 | 116.3 | 100.6 | 9.4 | 12.7 | 104.9 | 126.7 | 24.9 | |
| QVFX22V311S | 3 11/16 in. | | 5.50 | 9.25 | 8.31 | 11.75 | 10.56 | 8.875 | 1.50 | 1 | 4.49 | 4.58 | 3.96 | 0.37 | 0.50 | 4.13 | 4.99 | 55 | |
| QVFX22V312S | 3 3/4 in. | | | | | | | | | | | | | | | | | | |
| QVFX22V100S | 100 mm | | | | | | | | | | | | | | | | | | |
| QVFX22V315S | 3 15/16 in. | 22226 | 174.8 | 254.0 | 163.6 | 327.2 | 384.3 | 263.53 | 38.1 | 24 | 140.5 | 142.7 | 106.9 | 7.4 | 37.8 | 147.8 | 178.3 | 49.0 | |
| QVFX26V400S | 4 in. | | 6.88 | 10.00 | 6.44 ⁽⁶⁾ | 12.88 ⁽⁶⁾ | 15.13 | 10.375 | 1.50 | 1 ⁽⁶⁾ | 5.53 | 5.62 | 4.21 | 0.29 | 1.49 | 5.82 | 7.02 | 108 | |
| QVFX26V110S ⁽⁶⁾ | 110 mm | | | | | | | | | | | | | | | | | | |
| QVFX26V407S ⁽⁶⁾ | 4 7/16 in. | | | | | | | | | | | | | | | | | | |
| QVFX26V408S ⁽⁶⁾ | 4 1/2 in. | 22228 | 190.0 | 284.2 | 177.8 | 355.6 | 419.1 | 284.18 | 38.1 | 24 | 166.1 | 168.1 | 138.4 | 18.3 | 12.2 | 147.8 | 178.3 | 52.2 | |
| QVFX26V115S ⁽⁶⁾ | 115 mm | | 7.48 | 11.19 | 7.00 ⁽⁶⁾ | 14.00 ⁽⁶⁾ | 16.50 | 11.188 | 1.50 | 1 1/8 ⁽⁶⁾ | 6.54 | 6.62 | 5.45 | 0.72 | 0.48 | 5.82 | 7.02 | 115 | |
| QVFX28V125S ⁽⁶⁾ | 125 mm | | | | | | | | | | | | | | | | | | |
| QVFX28V415S ⁽⁶⁾ | 4 15/16 in. | | | | | | | | | | | | | | | | | | |
| QVFX28V500S ⁽⁶⁾ | 5 in. | | | | | | | | | | | | | | | | | | |
| QVFX28V130S ⁽⁶⁾ | 130 mm | | | | | | | | | | | | | | | | | | |

⁽¹⁾Bearing part numbers use QV to designate single-nut units (uses Rv and Sv dimensions) and QVV to designate double-nut units (uses Rvv and Svv dimensions).

⁽²⁾Single-nut (QV) part number shown. Double-nut (QVV) version available upon request.

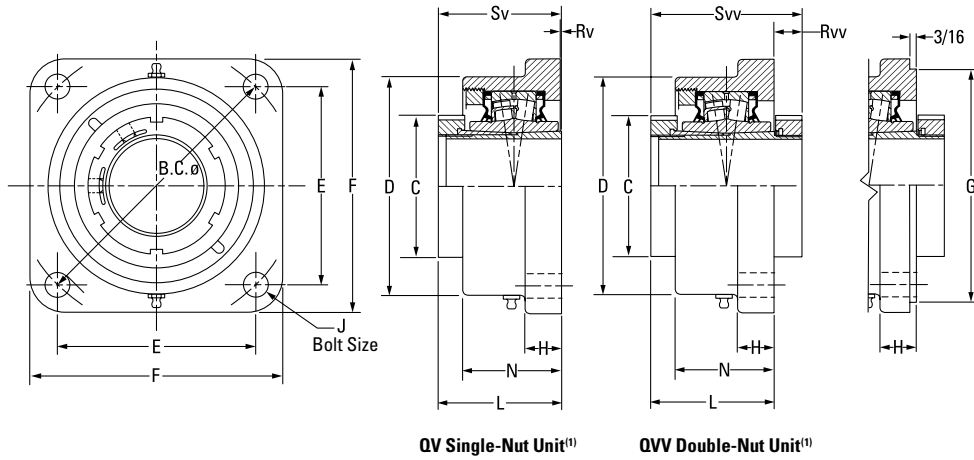
⁽³⁾Pilot tolerance: +0/-0.05 mm (+0/-0.002 in.).

⁽⁴⁾Add (p) to the end of the housing designation in the part number to order with pilot using G dimension.

⁽⁵⁾Piloted flange blocks will be quoted (price and delivery) upon request. For optional spigot on flange side, insert the letter P as seen in the following example: QMFP**J***S.

⁽⁶⁾Six-bolt round housing.

QVFK AND QVVK 9000 SERIES SQUARE FLANGE BLOCKS – TAPERED BORE EQUIVALENT



| Bearing Part No. ⁽¹⁾⁽²⁾ | Shaft Dia. | Bearing No. | C | D | E | B.C. | F | G ⁽³⁾⁽⁴⁾⁽⁵⁾ | H | J | L FIX | L EXP | N | Rv ⁽¹⁾ | Rvv | Sv ⁽¹⁾ | Svv | Wt. |
|------------------------------------|------------|-------------|--------|--------|---------------------|----------------------|--------|------------------------|--------|------------------|--------|--------|--------|-------------------|--------|-------------------|--------|---------|
| | 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. | mm in. | mm in. | mm in. | kg lbs. |
| QVFK11V115S | 1 1/8 in. | 22211 | 75.9 | 130.3 | 114.3 | 161.5 | 149.4 | 127.00 | 19.1 | 16 | 87.1 | 88.4 | 66.8 | 7.4 | 15.0 | 79.8 | 102.1 | 5.0 |
| QVFK11V200S | 2 in. | | 2.99 | 5.13 | 4.50 | 6.36 | 5.88 | 5.000 | 0.75 | 5/8 | 3.43 | 3.48 | 2.63 | 0.29 | 0.59 | 3.14 | 4.02 | 11 |
| QVFK11V050S | 50 mm | | | | | | | | | | | | | | | | | |
| QVFK13V203S | 2 3/8 in. | 22213 | 80.3 | 146.1 | 127.8 | 180.8 | 157.2 | 138.13 | 25.4 | 16 | 92.2 | 94.2 | 72.4 | 6.9 | 15.5 | 85.3 | 107.7 | 6.4 |
| QVFK13V204S | 2 1/4 in. | | 3.16 | 5.75 | 5.03 | 7.12 | 6.19 | 5.438 | 1.00 | 5/8 | 3.63 | 3.71 | 2.85 | 0.27 | 0.61 | 3.36 | 4.24 | 14 |
| QVFK13V055S | 55 mm | | | | | | | | | | | | | | | | | |
| QVFK15V060S | 60 mm | 22215 | 94.0 | 168.9 | 152.7 | 215.9 | 189.0 | 160.35 | 26.9 | 20 | 92.5 | 94.5 | 76.2 | 9.9 | 11.4 | 82.6 | 103.9 | 7.7 |
| QVFK15V207S | 2 7/8 in. | | 3.70 | 6.65 | 6.01 | 8.50 | 7.44 | 6.313 | 1.06 | 3/4 | 3.64 | 3.72 | 3.00 | 0.39 | 0.45 | 3.25 | 4.09 | 17 |
| QVFK15V208S | 2 1/2 in. | | | | | | | | | | | | | | | | | |
| QVFK15V065S | 65 mm | 22217 | 106.4 | 193.8 | 170.7 | 241.3 | 212.9 | 187.33 | 33.3 | 20 | 92.5 | 101.1 | 84.1 | 14.5 | 7.1 | 84.6 | 106.2 | 10.4 |
| QVFK17V211S | 2 1/8 in. | | 4.19 | 7.63 | 6.72 | 9.50 | 8.38 | 7.375 | 1.31 | 3/4 | 3.64 | 3.98 | 3.31 | 0.57 | 0.28 | 3.33 | 4.18 | 23 |
| QVFK17V212S | 2 3/4 in. | | | | | | | | | | | | | | | | | |
| QVFK17V070S | 70 mm | 22220 | 124.5 | 215.9 | 211.1 | 298.5 | 268.2 | 225.43 | 38.1 | 24 | 113.3 | 115.3 | 103.1 | 18.0 | 4.1 | 95.3 | 117.3 | 15.9 |
| QVFK17V300S | 3 in. | | 4.90 | 8.50 | 8.31 | 11.75 | 10.56 | 8.875 | 1.50 | 7/8 | 4.46 | 4.54 | 4.06 | 0.71 | 0.16 | 3.75 | 4.62 | 35 |
| QVFK17V075S | 75 mm | | | | | | | | | | | | | | | | | |
| QVFK20V303S | 3 3/8 in. | 22222 | 139.7 | 254.0 | 163.6 | 327.2 | 384.3 | 263.53 | 31.8 | 24 | 117.3 | 119.4 | 106.9 | 12.4 | 9.7 | 104.9 | 126.7 | 24.9 |
| QVFK20V304S | 3 1/4 in. | | 5.50 | 10.00 | 6.44 ⁽⁶⁾ | 12.88 ⁽⁶⁾ | 15.13 | 10.375 | 1.25 | 1 ⁽⁶⁾ | 4.62 | 4.70 | 4.21 | 0.49 | 0.38 | 4.13 | 4.99 | 55 |
| QVFK20V080S | 80 mm | | | | | | | | | | | | | | | | | |
| QVFK20V085S | 85 mm | 22226 | 174.8 | 284.2 | 177.8 | 355.6 | 419.1 | 284.18 | 38.1 | 24 | 164.6 | 166.6 | 135.1 | 11.7 | 13.7 | 147.8 | 178.3 | 49.0 |
| QVFK20V307S | 3 7/8 in. | | 6.88 | 11.19 | 7.00 ⁽⁶⁾ | 14.00 ⁽⁶⁾ | 16.50 | 11.188 | 1.50 | 1 ⁽⁶⁾ | 6.48 | 6.56 | 5.32 | 0.46 | 0.54 | 5.82 | 7.02 | 108 |
| QVFK20V308S | 3 1/2 in. | | | | | | | | | | | | | | | | | |
| QVFK20V090S | 90 mm | 22226 | 174.8 | 284.2 | 177.8 | 355.6 | 419.1 | 284.18 | 38.1 | 24 | 164.6 | 166.6 | 135.1 | 11.7 | 13.7 | 147.8 | 178.3 | 49.0 |
| QVFK22V311S ⁽⁶⁾ | 3 1/8 in. | | 6.88 | 11.19 | 7.00 ⁽⁶⁾ | 14.00 ⁽⁶⁾ | 16.50 | 11.188 | 1.50 | 1 ⁽⁶⁾ | 6.48 | 6.56 | 5.32 | 0.46 | 0.54 | 5.82 | 7.02 | 108 |
| QVFK22V312S ⁽⁶⁾ | 3 3/4 in. | | | | | | | | | | | | | | | | | |
| QVFK22V100S ⁽⁶⁾ | 100 mm | 22226 | 174.8 | 284.2 | 177.8 | 355.6 | 419.1 | 284.18 | 38.1 | 24 | 164.6 | 166.6 | 135.1 | 11.7 | 13.7 | 147.8 | 178.3 | 49.0 |
| QVFK22V315S ⁽⁶⁾ | 3 1/8 in. | | 6.88 | 11.19 | 7.00 ⁽⁶⁾ | 14.00 ⁽⁶⁾ | 16.50 | 11.188 | 1.50 | 1 ⁽⁶⁾ | 6.48 | 6.56 | 5.32 | 0.46 | 0.54 | 5.82 | 7.02 | 108 |
| QVFK22V400S ⁽⁶⁾ | 4 in. | | | | | | | | | | | | | | | | | |
| QVFK26V110S ⁽⁶⁾ | 110 mm | 22226 | 174.8 | 284.2 | 177.8 | 355.6 | 419.1 | 284.18 | 38.1 | 24 | 164.6 | 166.6 | 135.1 | 11.7 | 13.7 | 147.8 | 178.3 | 49.0 |
| QVFK26V407S ⁽⁶⁾ | 4 7/8 in. | | 6.88 | 11.19 | 7.00 ⁽⁶⁾ | 14.00 ⁽⁶⁾ | 16.50 | 11.188 | 1.50 | 1 ⁽⁶⁾ | 6.48 | 6.56 | 5.32 | 0.46 | 0.54 | 5.82 | 7.02 | 108 |
| QVFK26V408S ⁽⁶⁾ | 4 1/2 in. | | | | | | | | | | | | | | | | | |
| QVFK26V115S ⁽⁶⁾ | 115 mm | | | | | | | | | | | | | | | | | |

⁽¹⁾Bearing part numbers use QV to designate single-nut units (uses Rv and Sv dimensions) and QVV to designate double-nut units (uses Rvv and Svv dimensions).

⁽²⁾Single-nut (QV) part number shown. Double-nut (QVV) version available upon request.

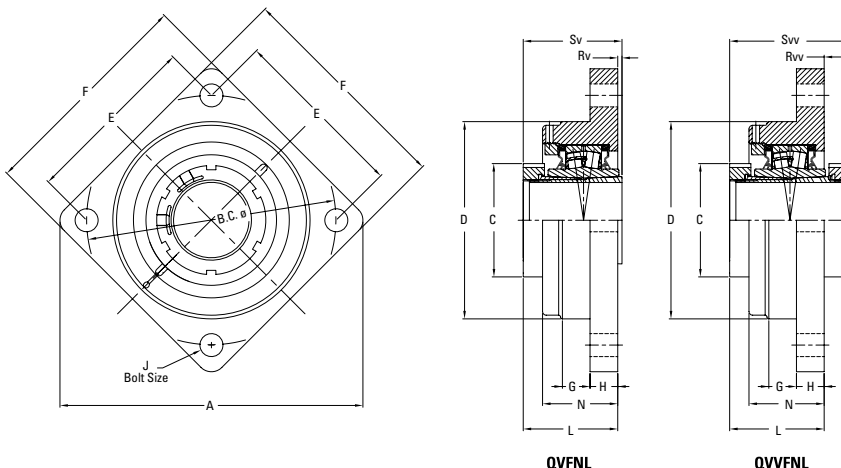
⁽³⁾Pilot tolerance: +0/-0.05 mm (+0/-0.002 in.).

⁽⁴⁾Add (p) to the end of the housing designation in the part number to order with pilot using G dimension.

⁽⁵⁾Piloted flange blocks will be quoted (price and delivery) upon request. For optional spigot on flange side, insert the letter P as seen in the following example: QMFP**J***S.

⁽⁶⁾Six-bolt round housing.

QVFNL SERIES SQUARE FLANGE BLOCKS – STRAIGHT BORE EQUIVALENT

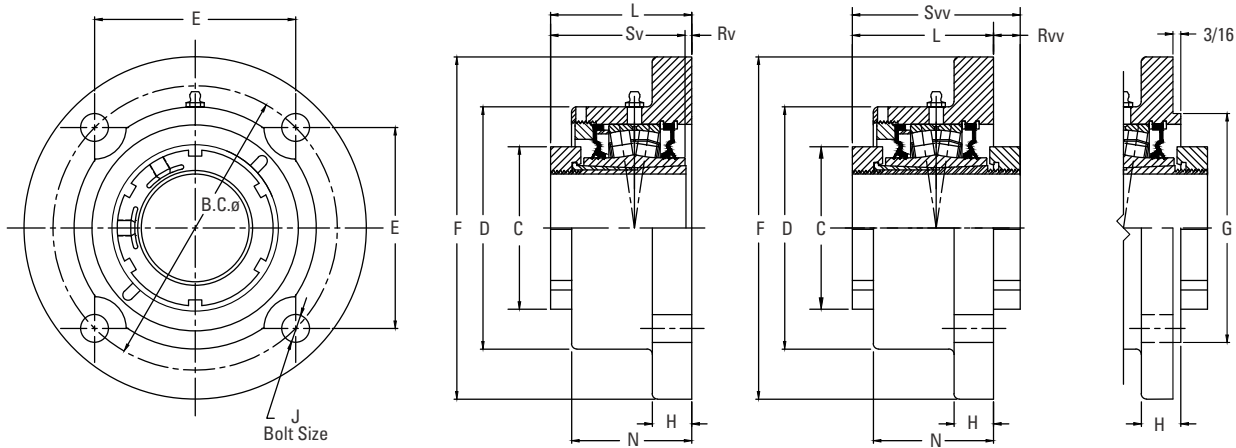


| Bearing Part No. ⁽¹⁾⁽²⁾ | Shaft Dia. | Bearing No. | A | B.C. | C | D | E | F | G | H | J | L | N | Rv | Rvv | Sv | Svv | Wt. |
|------------------------------------|--------------|-------------|----------------|----------------|---------------|----------------|---------------|----------------|--------------|--------------|-----------|---------------|---------------|--------------|--------------|---------------|---------------|------------|
| | 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. | mm in. | mm in. | mm in. | kg lbs. |
| QVFNL15V207S | 2 7/16 in. | 22215 | 255.0 10.04 | 215.0 8.47 | 94.0 3.70 | 170.0 6.69 | 152.0 6.00 | 192.0 7.56 | 25.4 1.00 | 23.9 0.94 | 16 % | 81.5 3.21 | 64.8 2.55 | 0.8 0.03 | 22.4 0.88 | 82.6 3.25 | 103.9 4.09 | 11.3 25 |
| QVFNL15V208S | 2 1/2 in. | | | | | | | | | | | | | | | | | |
| QVFNL15V065S | 65 mm | | | | | | | | | | | | | | | | | |
| QVFNL16V211S | 2 1 1/16 in. | 22216 | 255.0 10.04 | 215.0 8.47 | 106.4 4.19 | 170.0 6.69 | 152.0 6.00 | 192.0 7.56 | 25.4 1.00 | 23.9 0.94 | 16 % | 81.5 3.21 | 64.8 2.55 | 2.0 0.08 | 22.4 0.88 | 83.6 3.29 | 103.6 4.08 | 11.3 25 |
| QVFNL16V212S | 2 3/4 in. | | | | | | | | | | | | | | | | | |
| QVFNL16V070S | 70 mm | | | | | | | | | | | | | | | | | |
| QVFNL17V215S | 2 1 5/16 in. | 22217 | 282.0 11.12 | 240.0 9.45 | 106.4 4.19 | 190.0 7.48 | 170.0 6.68 | 212.0 8.35 | 25.4 1.00 | 25.4 1.00 | 16 % | 83.8 3.30 | 69.9 2.75 | 1.0 0.04 | 22.4 0.88 | 84.6 3.33 | 106.2 4.18 | 13.6 30 |
| QVFNL17V300S | 3 in. | | | | | | | | | | | | | | | | | |
| QVFNL17V075S | 75 mm | | | | | | | | | | | | | | | | | |
| QVFNL19V303S | 3 3/16 in. | 22219 | 282.0 11.12 | 240.0 9.45 | 124.5 4.90 | 190.0 7.48 | 170.0 6.68 | 212.0 8.35 | 25.4 1.00 | 25.4 1.00 | 16 % | 87.9 3.46 | 69.9 2.75 | 5.8 0.23 | 26.4 1.04 | 93.7 3.69 | 114.0 4.49 | 13.6 30 |
| QVFNL19V304S | 3 1/4 in. | | | | | | | | | | | | | | | | | |
| QVFNL19V080S | 80 mm | | | | | | | | | | | | | | | | | |
| QVFNL20V307S | 3 7/16 in. | 22220 | 330.0 13.00 | 280.0 11.02 | 124.5 4.90 | 230.0 9.06 | 198.0 7.79 | 248.0 9.76 | 31.8 1.25 | 28.7 1.13 | 20 3/4 | 106.7 4.20 | 94.2 3.71 | 11.4 0.45 | 10.9 0.43 | 95.3 3.75 | 117.3 4.62 | 18.1 40 |
| QVFNL20V308S | 3 1/2 in. | | | | | | | | | | | | | | | | | |
| QVFNL20V090S | 90 mm | | | | | | | | | | | | | | | | | |
| QVFNL22V315S | 3 1 5/16 in. | 22222 | 367.0 14.45 | 309.9 12.20 | 139.7 5.50 | 255.0 10.04 | 219.0 8.63 | 280.0 11.00 | 44.5 1.75 | 26.4 1.04 | 20 3/4 | 112.0 4.41 | 101.1 3.98 | 7.4 0.29 | 14.7 0.58 | 104.9 4.13 | 126.7 4.99 | 27.2 60 |
| QVFNL22V400S | 4 in. | | | | | | | | | | | | | | | | | |
| QVFNL22V100S | 100 mm | | | | | | | | | | | | | | | | | |

⁽¹⁾Bearing part numbers use QV to designate single-nut units (uses Rv and Sv dimensions) and QVV to designate double-nut units (uses Rvv and Sv dimensions).

⁽²⁾Single-nut (QV) part number shown. Double-nut (QVV) version available upon request.

QVfy AND QVfy ROUND FLANGE BLOCKS – STRAIGHT BORE EQUIVALENT



| Bearing Part No. ⁽¹⁾⁽²⁾ | Shaft Dia. | Bearing No. | C | D | E | B.C. | F | G ⁽³⁾⁽⁴⁾⁽⁵⁾ | H | J | L FIX | L EXP | N | Rv ⁽¹⁾ | Rvv | Sv ⁽¹⁾ | Svv | Wt. |
|------------------------------------|-------------|-------------|--------|--------|---------------------|----------------------|--------|------------------------|--------|----------------------|--------|--------|--------|-------------------|--------|-------------------|--------|--------|
| | | | 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. | mm in. | mm in. | mm in. |
| QVfy11V115S | 1 15/16 in. | 22211 | 75.9 | 115.3 | 103.4 | 146.1 | 177.8 | 111.13 | 19.1 | 12 | 78.5 | 80.5 | 58.4 | 1.5 | 23.9 | 79.8 | 102.1 | 5.4 |
| QVfy11V200S | 2 in. | | 2.99 | 4.54 | 4.07 | 5.75 | 7.00 | 4.375 | 0.75 | 1/2 | 3.09 | 3.17 | 2.30 | 0.06 | 0.94 | 3.14 | 4.02 | 12 |
| QVfy11V050S | 50 mm | | | | | | | | | | | | | | | | | |
| QVfy12V203S | 2 3/8 in. | 22212 | 80.3 | 130.3 | 114.6 | 162.1 | 196.9 | 127.00 | 19.1 | 16 | 80.0 | 82.0 | 62.0 | 0.3 | 22.1 | 79.8 | 102.1 | 6.8 |
| QVfy12V204S | 2 1/4 in. | | 3.16 | 5.13 | 4.51 | 6.38 | 7.75 | 5.000 | 0.75 | 5/8 | 3.15 | 3.23 | 2.44 | 0.01 | 0.87 | 3.14 | 4.02 | 15 |
| QVfy12V055S | 55 mm | | | | | | | | | | | | | | | | | |
| QVfy14V060S | 60 mm | 22214 | 94.0 | 146.1 | 121.2 | 171.5 | 206.5 | 138.13 | 23.9 | 16 | 84.8 | 86.9 | 72.4 | 3.8 | 16.5 | 81.0 | 101.3 | 8.6 |
| QVfy14V207S | 2 7/8 in. | | 3.70 | 5.75 | 4.77 | 6.75 | 8.13 | 5.438 | 0.94 | 5/8 | 3.34 | 3.42 | 2.85 | 0.15 | 0.65 | 3.19 | 3.99 | 19 |
| QVfy14V208S | 2 1/2 in. | | | | | | | | | | | | | | | | | |
| QVfy14V065S | 65 mm | | | | | | | | | | | | | | | | | |
| QVfy16V211S | 2 11/16 in. | 22216 | 106.4 | 168.4 | 141.5 | 199.9 | 241.3 | 160.35 | 23.9 | 20 | 88.4 | 90.4 | 76.2 | 4.8 | 15.2 | 83.6 | 103.6 | 12.7 |
| QVfy16V212S | 2 3/4 in. | | 4.19 | 6.63 | 5.57 | 7.87 | 9.50 | 6.313 | 0.94 | 3/4 | 3.48 | 3.56 | 3.00 | 0.19 | 0.60 | 3.29 | 4.08 | 28 |
| QVfy16V070S | 70 mm | | | | | | | | | | | | | | | | | |
| QVfy16V215S | 2 15/16 in. | | | | | | | | | | | | | | | | | |
| QVfy16V300S | 3 in. | | | | | | | | | | | | | | | | | |
| QVfy16V075S | 75 mm | | | | | | | | | | | | | | | | | |
| QVfy19V303S | 3 3/8 in. | 22219 | 124.5 | 193.8 | 170.7 | 241.3 | 282.7 | 187.33 | 28.7 | 24 | 98.3 | 116.1 | 85.3 | 4.8 | 15.7 | 93.7 | 114.0 | 19.1 |
| QVfy19V304S | 3 1/4 in. | | 4.90 | 7.63 | 6.72 | 9.50 | 11.13 | 7.375 | 1.13 | 7/8 | 3.87 | 4.57 | 3.36 | 0.19 | 0.62 | 3.69 | 4.49 | 42 |
| QVfy19V080S | 80 mm | | | | | | | | | | | | | | | | | |
| QVfy19V085S | 85 mm | | | | | | | | | | | | | | | | | |
| QVfy19V307S | 3 7/8 in. | | | | | | | | | | | | | | | | | |
| QVfy19V308S | 3 1/2 in. | | | | | | | | | | | | | | | | | |
| QVfy19V090S | 90 mm | | | | | | | | | | | | | | | | | |
| QVfy22V311S | 3 11/16 in. | 22222 | 139.7 | 222.5 | 193.0 | 273.1 | 320.8 | N/A | 28.7 | 24 | 115.3 | 117.3 | 103.1 | 10.4 | 11.4 | 104.9 | 126.7 | 29.9 |
| QVfy22V312S | 3 3/4 in. | | 5.50 | 8.76 | 7.60 | 10.75 | 12.63 | | 1.13 | 1 | 4.54 | 4.62 | 4.06 | 0.41 | 0.45 | 4.13 | 4.99 | 66 |
| QVfy22V100S | 100 mm | | | | | | | | | | | | | | | | | |
| QVfy22V315S | 3 15/16 in. | | | | | | | | | | | | | | | | | |
| QVfy22V400S | 4 in. | | | | | | | | | | | | | | | | | |
| QVfy26V110S ⁽⁶⁾ | 110 mm | 22226 | 174.8 | 230.1 | 163.6 | 327.2 | 384.3 | N/A | 38.1 | 24 | 140.5 | 142.7 | 106.9 | 7.4 | 37.8 | 147.8 | 178.3 | 49.0 |
| QVfy26V407S ⁽⁶⁾ | 4 7/8 in. | | 6.88 | 9.06 | 6.44 ⁽⁶⁾ | 12.88 ⁽⁶⁾ | 15.13 | | 1.50 | 1 ⁽⁶⁾ | 5.53 | 5.62 | 4.21 | 0.29 | 1.49 | 5.82 | 7.02 | 108 |
| QVfy26V408S ⁽⁶⁾ | 4 1/2 in. | | | | | | | | | | | | | | | | | |
| QVfy26V115S ⁽⁶⁾ | 115 mm | | | | | | | | | | | | | | | | | |
| QVfy28V125S ⁽⁶⁾ | 125 mm | | | | | | | | | | | | | | | | | |
| QVfy28V415S ⁽⁶⁾ | 4 15/16 in. | 22228 | 190.0 | 284.2 | 177.8 | 355.6 | 419.1 | N/A | 38.1 | 24 | 166.1 | 168.1 | 138.4 | 18.3 | 12.2 | 147.8 | 178.3 | 52.2 |
| QVfy28V500S ⁽⁶⁾ | 5 in. | | 7.48 | 11.19 | 7.00 ⁽⁶⁾ | 14.00 ⁽⁶⁾ | 16.50 | | 1.50 | 1 1/8 ⁽⁶⁾ | 6.54 | 6.62 | 5.45 | 0.72 | 0.48 | 5.82 | 7.02 | 115 |
| QVfy28V130S ⁽⁶⁾ | 130 mm | | | | | | | | | | | | | | | | | |

⁽¹⁾Bearing part numbers use QV to designate single-nut units (uses Rv and Sv dimensions) and QVV to designate double-nut units (uses Rvv and Svv dimensions).

⁽²⁾Single-nut (QV) part number shown. Double-nut (QVV) version available upon request.

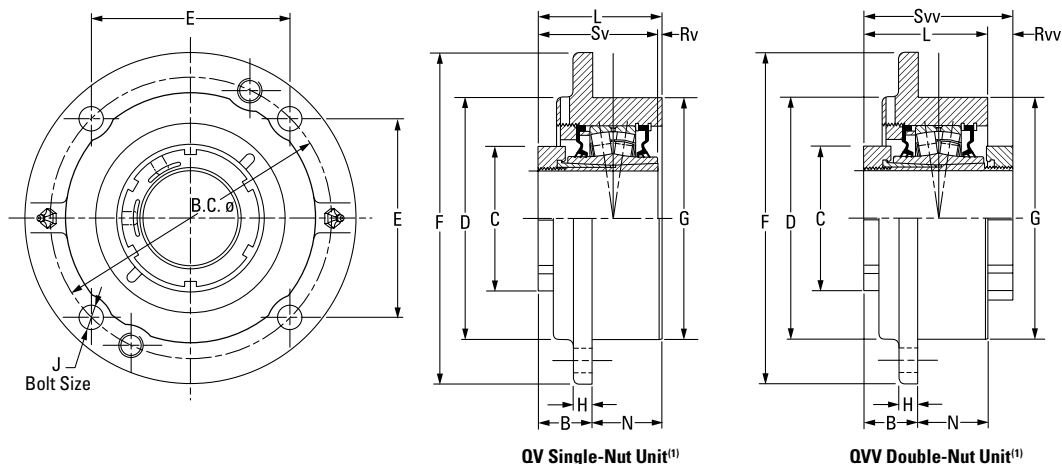
⁽³⁾Pilot tolerance: +0/-0.05 mm (+0/-0.002 in.).

⁽⁴⁾Add (p) to the end of the housing designation in the part number to order with pilot using G dimension.

⁽⁵⁾Piloted flange blocks will be quoted (price and delivery) upon request. For optional spigot on flange side, insert the letter P as seen in the following example: QMFP**J***S.

⁽⁶⁾Six-bolt round housing.

QVC AND QVVC PILOTED FLANGE CARTRIDGES – STRAIGHT BORE EQUIVALENT



| Bearing Part No. ⁽¹⁾⁽²⁾ | Shaft Dia. | Bearing No. | B FIX | B EXP | C | D | B.C. | E | F | G ⁽³⁾ | H | J | L | N | Rv ⁽¹⁾ | Rvv | Sv ⁽¹⁾ | Svv | Wt. | |
|------------------------------------|-------------|-------------|-----------|-----------|-----------|-----------|----------------------|---------------------|-----------|------------------|-----------|--------------------|-----------|-----------|-------------------|-----------|-------------------|-----------|-----------|------------|
| | 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. | mm in. | mm in. | mm in. | mm in. | mm in. | kg lbs. |
| QVC11V115S | 1 15/16 in. | 22211 | 53.8 | 55.9 | 75.9 | 113.5 | 136.7 | 96.5 | 162.1 | 114.3 | 16.0 | 10 | 80.8 | 26.9 | 0.8 | 21.6 | 79.8 | 102.1 | 4.5 | |
| QVC11V200S | 2 in. | | 2.12 | 2.20 | 2.99 | 4.47 | 5.38 | 3.80 | 6.38 | 4.50 | 0.63 | 7/16 | 3.18 | 1.06 | 0.03 | 0.85 | 3.14 | 4.02 | 10 | |
| QVC11V050S | 50 mm | | | | | | | | | | | | | | | | | | | |
| QVC12V203S | 2 3/8 in. | 22212 | 51.3 | 53.3 | 80.3 | 127.0 | 152.4 | 107.7 | 185.4 | 127.0 | 14.7 | 12 | 80.0 | 28.7 | 0.3 | 22.1 | 79.8 | 102.1 | 5.9 | |
| QVC12V204S | 2 1/4 in. | | 2.02 | 2.10 | 3.16 | 5.00 | 6.00 | 4.24 | 7.30 | 5.00 | 0.58 | 1/2 | 3.15 | 1.13 | 0.01 | 0.87 | 3.14 | 4.02 | 13 | |
| QVC12V055S | 55 mm | | | | | | | | | | | | | | | | | | | |
| QVC14V060S | 60 mm | 22214 | 56.1 | 58.2 | 94.0 | 139.7 | 165.1 | 116.8 | 193.8 | 139.7 | 17.5 | 12 | 84.6 | 28.7 | 3.8 | 16.5 | 81.0 | 101.3 | 7.3 | |
| QVC14V207S | 2 7/8 in. | | 2.21 | 2.29 | 3.70 | 5.50 | 6.50 | 4.60 | 7.63 | 5.50 | 0.69 | 1/2 | 3.33 | 1.13 | 0.15 | 0.65 | 3.19 | 3.99 | 16 | |
| QVC14V208S | 2 1/2 in. | | | | | | | | | | | | | | | | | | | |
| QVC14V065S | 65 mm | | | | | | | | | | | | | | | | | | | |
| QVC16V211S | 2 11/16 in. | 22216 | 52.8 | 54.9 | 106.4 | 162.1 | 190.5 | 134.6 | 222.3 | 161.9 | 20.6 | 16 | 84.6 | 31.8 | 1.0 | 19.3 | 83.6 | 103.6 | 10.0 | |
| QVC16V212S | 2 3/4 in. | | 2.08 | 2.16 | 4.19 | 6.38 | 7.50 | 5.30 | 8.75 | 6.36 | 0.81 | 5/8 | 3.33 | 1.25 | 0.04 | 0.76 | 3.29 | 4.08 | 22 | |
| QVC16V070S | 70 mm | | | | | | | | | | | | | | | | | | | |
| QVC16V215S | 2 15/16 in. | | 2.08 | 2.16 | 4.19 | 6.38 | 7.50 | 5.30 | 8.75 | 6.36 | 0.81 | 5/8 | 3.33 | 1.25 | 0.04 | 0.76 | 3.29 | 4.08 | 22 | |
| QVC16V300S | 3 in. | | | | | | | | | | | | | | | | | | | |
| QVC16V075S | 75 mm | | | | | | | | | | | | | | | | | | | |
| QVC19V303S | 3 3/8 in. | 22219 | 62.5 | 64.5 | 124.5 | 199.1 | 219.2 | 154.9 | 262.6 | 187.3 | 25.4 | 20 | 95.8 | 33.3 | 2.0 | 18.5 | 93.7 | 114.0 | 14.5 | |
| QVC19V304S | 3 1/4 in. | | 2.46 | 2.54 | 4.90 | 7.84 | 8.63 | 6.10 | 10.34 | 7.38 | 1.00 | 3/4 | 3.77 | 1.31 | 0.08 | 0.73 | 3.69 | 4.49 | 32 | |
| QVC19V080S | 80 mm | | | | | | | | | | | | | | | | | | | |
| QVC19V085S | 85 mm | | | | | | | | | | | | | | | | | | | |
| QVC19V307S | 3 7/8 in. | | | | | | | | | | | | | | | | | | | |
| QVC19V308S | 3 1/2 in. | | | | | | | | | | | | | | | | | | | |
| QVC19V090S | 90 mm | | | | | | | | | | | | | | | | | | | |
| QVC22V311S | 3 11/16 in. | 22222 | 60.2 | 62.2 | 139.7 | 222.5 | 238.3 | 168.4 | 276.4 | 206.4 | 25.4 | 20 | 115.3 | 54.1 | 10.4 | 11.7 | 104.9 | 126.7 | 19.5 | |
| QVC22V312S | 3 3/4 in. | | 2.37 | 2.45 | 5.50 | 8.76 | 9.38 | 6.63 | 10.88 | 8.13 | 1.00 | 3/4 | 4.54 | 2.13 | 0.41 | 0.46 | 4.13 | 4.99 | 43 | |
| QVC22V100S | 100 mm | | | | | | | | | | | | | | | | | | | |
| QVC22V315S | 3 15/16 in. | | | | | | | | | | | | | | | | | | | |
| QVC22V400S | 4 in. | | | | | | | | | | | | | | | | | | | |
| QVC26V110S ⁽⁴⁾ | 110 mm | 22226 | 86.4 | 88.4 | 174.8 | 260.4 | 298.5 | 149.4 | 342.9 | 260.4 | 25.4 | 20 | 134.6 | 48.3 | 13.2 | 43.7 | 147.8 | 178.3 | 32.7 | |
| QVC26V407S ⁽⁴⁾ | 4 7/8 in. | | 3.40 | 3.48 | 6.88 | 10.25 | 11.75 ⁽⁴⁾ | 5.88 ⁽⁴⁾ | 13.50 | 10.25 | 1.00 | 3/4 ⁽⁴⁾ | 5.30 | 1.90 | 0.52 | 1.72 | 5.82 | 7.02 | 72 | |
| QVC26V408S ⁽⁴⁾ | 4 1/2 in. | | | | | | | | | | | | | | | | | | | |
| QVC26V115S ⁽⁴⁾ | 115 mm | | | | | | | | | | | | | | | | | | | |

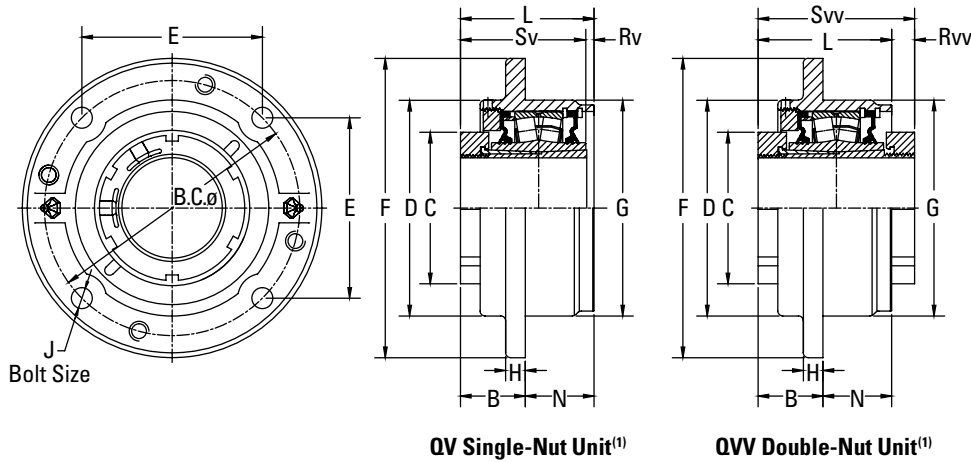
⁽¹⁾Bearing part numbers use QV to designate single-nut units (uses Rv and Sv dimensions) and QVV to designate double-nut units (uses Rvv and Svv dimensions).

⁽²⁾Single-nut (QV) part number shown. Double-nut (QVV) version available upon request.

⁽³⁾Pilot tolerance: +0/-0.05 mm (+0/-0.002 in.).

⁽⁴⁾Six-bolt round housing.

QVCW AND QVVCW PILOTED FLANGE CARTRIDGES – STRAIGHT BORE EQUIVALENT



QV Single-Nut Unit⁽¹⁾

QVV Double-Nut Unit⁽¹⁾

| Bearing Part No. ⁽¹⁾⁽²⁾ | Shaft Dia. | Bearing No. | B FIX | B EXP | C | D | B.C. | E | F | G ⁽³⁾ | H | J | L | N | Rv ⁽¹⁾ | Rvv | Sv ⁽¹⁾ | Svv | Wt. | |
|------------------------------------|-------------|-------------|-----------|-----------|-----------|-----------|----------------------|---------------------|-----------|------------------|---------------------|-----------|-----------|-----------|-------------------|-----------|-------------------|-----------|-----------|------------|
| | 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. | mm in. | mm in. | mm in. | mm in. | mm in. | kg lbs. |
| QVCW11V115S | 1 15/16 in. | 22211 | 42.2 | 44.2 | 75.9 | 113.5 | 136.7 | 96.5 | 162.1 | 114.3 | 9.7 | 10 | 80.3 | 38.1 | 0.8 | 21.8 | 79.8 | 102.1 | 4.5 | |
| QVCW11V200S | 2 in. | | 1.66 | 1.74 | 2.99 | 4.47 | 5.38 | 3.80 | 6.38 | 4.50 | 0.38 | 7/16 | 3.16 | 1.50 | 0.03 | 0.86 | 3.14 | 4.02 | 10 | |
| QVCW11V050S | 50 mm | 22212 | 43.2 | 45.5 | 80.3 | 126.7 | 152.4 | 107.7 | 181.1 | 127.0 | 14.2 | 12 | 84.6 | 41.4 | 4.8 | 17.5 | 79.8 | 102.1 | 5.9 | |
| QVCW12V203S | 2 3/8 in. | | 1.70 | 1.79 | 3.16 | 4.99 | 6.00 | 4.24 | 7.13 | 5.00 | 0.56 | 1/2 | 3.33 | 1.63 | 0.19 | 0.69 | 3.14 | 4.02 | 13 | |
| QVCW12V204S | 2 1/4 in. | 22214 | 43.2 | 45.5 | 80.3 | 126.7 | 152.4 | 107.7 | 181.1 | 127.0 | 14.2 | 12 | 84.6 | 41.4 | 4.8 | 17.5 | 79.8 | 102.1 | 5.9 | |
| QVCW12V055S | 55 mm | | 1.70 | 1.79 | 3.16 | 4.99 | 6.00 | 4.24 | 7.13 | 5.00 | 0.56 | 1/2 | 3.33 | 1.63 | 0.19 | 0.69 | 3.14 | 4.02 | 13 | |
| QVCW14V060S | 60 mm | 22214 | 41.9 | 43.9 | 94.0 | 139.7 | 165.1 | 116.8 | 193.8 | 139.7 | 12.7 | 12 | 86.4 | 42.9 | 5.3 | 15.0 | 81.0 | 101.3 | 7.3 | |
| QVCW14V207S | 2 7/16 in. | | 1.65 | 1.73 | 3.70 | 5.50 | 6.50 | 4.60 | 7.63 | 5.50 | 0.50 | 1/2 | 3.40 | 1.69 | 0.21 | 0.59 | 3.19 | 3.99 | 16 | |
| QVCW14V208S | 2 1/2 in. | 22216 | 41.9 | 43.9 | 94.0 | 139.7 | 165.1 | 116.8 | 193.8 | 139.7 | 12.7 | 12 | 86.4 | 42.9 | 5.3 | 15.0 | 81.0 | 101.3 | 7.3 | |
| QVCW14V065S | 65 mm | | 1.65 | 1.73 | 3.70 | 5.50 | 6.50 | 4.60 | 7.63 | 5.50 | 0.50 | 1/2 | 3.40 | 1.69 | 0.21 | 0.59 | 3.19 | 3.99 | 16 | |
| QVCW16V211S | 2 11/16 in. | 22216 | 37.6 | 39.6 | 106.4 | 162.1 | 190.5 | 134.6 | 222.3 | 161.9 | 12.7 | 16 | 85.1 | 47.8 | 1.8 | 18.5 | 83.6 | 103.6 | 10.0 | |
| QVCW16V212S | 2 3/4 in. | | 1.48 | 1.56 | 4.19 | 6.38 | 7.50 | 5.30 | 8.75 | 6.36 | 0.50 | 5/8 | 3.35 | 1.88 | 0.07 | 0.73 | 3.29 | 4.08 | 22 | |
| QVCW16V070S | 70 mm | 22219 | 37.6 | 39.6 | 106.4 | 162.1 | 190.5 | 134.6 | 222.3 | 161.9 | 12.7 | 16 | 85.1 | 47.8 | 1.8 | 18.5 | 83.6 | 103.6 | 10.0 | |
| QVCW16V215S | 2 15/16 in. | | 1.48 | 1.56 | 4.19 | 6.38 | 7.50 | 5.30 | 8.75 | 6.36 | 0.50 | 5/8 | 3.35 | 1.88 | 0.07 | 0.73 | 3.29 | 4.08 | 22 | |
| QVCW16V300S | 3 in. | 22219 | 49.8 | 51.8 | 124.5 | 199.1 | 219.2 | 154.9 | 260.4 | 187.3 | 22.4 | 20 | 97.5 | 47.8 | 3.8 | 16.8 | 93.7 | 114.0 | 14.5 | |
| QVCW16V075S | 75 mm | | 1.96 | 2.04 | 4.90 | 7.84 | 8.63 | 6.10 | 10.25 | 7.36 | 0.88 | 3/4 | 3.84 | 1.88 | 0.15 | 0.66 | 3.69 | 4.49 | 32 | |
| QVCW19V303S | 3 3/8 in. | 22222 | 49.8 | 51.8 | 124.5 | 199.1 | 219.2 | 154.9 | 260.4 | 187.3 | 22.4 | 20 | 97.5 | 47.8 | 3.8 | 16.8 | 93.7 | 114.0 | 14.5 | |
| QVCW19V304S | 3 1/4 in. | | 1.96 | 2.04 | 4.90 | 7.84 | 8.63 | 6.10 | 10.25 | 7.36 | 0.88 | 3/4 | 3.84 | 1.88 | 0.15 | 0.66 | 3.69 | 4.49 | 32 | |
| QVCW19V080S | 80 mm | 22222 | 51.6 | 53.6 | 139.7 | 222.5 | 238.3 | 168.4 | 276.4 | 206.4 | 25.4 | 20 | 109.7 | 57.2 | 4.8 | 17.3 | 104.9 | 126.7 | 19.5 | |
| QVCW19V085S | 85 mm | | 2.03 | 2.11 | 5.50 | 8.76 | 9.38 | 6.63 | 10.88 | 8.13 | 1.00 | 3/4 | 4.32 | 2.25 | 0.19 | 0.68 | 4.13 | 4.99 | 43 | |
| QVCW19V307S | 3 7/8 in. | 22226 | 51.6 | 53.6 | 139.7 | 222.5 | 238.3 | 168.4 | 276.4 | 206.4 | 25.4 | 20 | 109.7 | 57.2 | 4.8 | 17.3 | 104.9 | 126.7 | 19.5 | |
| QVCW19V308S | 3 1/2 in. | | 2.03 | 2.11 | 5.50 | 8.76 | 9.38 | 6.63 | 10.88 | 8.13 | 1.00 | 3/4 | 4.32 | 2.25 | 0.19 | 0.68 | 4.13 | 4.99 | 43 | |
| QVCW19V090S | 90 mm | 22226 | 72.4 | 74.4 | 174.8 | 260.4 | 298.5 | 149.4 | 342.9 | 260.4 | 25.4 | 20 | 140.5 | 68.3 | 7.4 | 37.8 | 147.8 | 178.3 | 32.7 | |
| QVCW22V311S | 3 11/16 in. | | 2.85 | 2.93 | 6.88 | 10.25 | 11.75 ⁽⁴⁾ | 5.88 ⁽⁴⁾ | 13.50 | 10.25 | 1.00 ⁽⁴⁾ | 3/4 | 5.53 | 2.69 | 0.29 | 1.49 | 5.82 | 7.02 | 72 | |
| QVCW22V312S | 3 3/4 in. | 22228 | 72.4 | 74.4 | 174.8 | 260.4 | 298.5 | 149.4 | 342.9 | 260.4 | 25.4 | 20 | 140.5 | 68.3 | 7.4 | 37.8 | 147.8 | 178.3 | 32.7 | |
| QVCW22V100S | 100 mm | | 2.85 | 2.93 | 6.88 | 10.25 | 11.75 ⁽⁴⁾ | 5.88 ⁽⁴⁾ | 13.50 | 10.25 | 1.00 ⁽⁴⁾ | 3/4 | 5.53 | 2.69 | 0.29 | 1.49 | 5.82 | 7.02 | 72 | |
| QVCW22V315S | 3 15/16 in. | 22228 | 66.5 | 68.6 | 190.0 | 266.7 | 323.9 | 162.1 | 374.7 | 279.4 | 26.2 | 24 | 144.5 | 78.0 | 3.3 | 33.8 | 147.8 | 178.3 | 46.3 | |
| QVCW22V400S | 4 in. | | 2.62 | 2.70 | 7.48 | 10.50 | 12.75 ⁽⁴⁾ | 6.38 ⁽⁴⁾ | 14.75 | 11.00 | 1.03 ⁽⁴⁾ | 7/8 | 5.69 | 3.07 | 0.13 | 1.33 | 5.82 | 7.02 | 102 | |
| QVCW26V110S ⁽⁴⁾ | 110 mm | 22228 | 66.5 | 68.6 | 190.0 | 266.7 | 323.9 | 162.1 | 374.7 | 279.4 | 26.2 | 24 | 144.5 | 78.0 | 3.3 | 33.8 | 147.8 | 178.3 | 46.3 | |
| QVCW26V407S ⁽⁴⁾ | 4 7/8 in. | | 2.62 | 2.70 | 7.48 | 10.50 | 12.75 ⁽⁴⁾ | 6.38 ⁽⁴⁾ | 14.75 | 11.00 | 1.03 ⁽⁴⁾ | 7/8 | 5.69 | 3.07 | 0.13 | 1.33 | 5.82 | 7.02 | 102 | |
| QVCW26V408S ⁽⁴⁾ | 4 1/2 in. | 22228 | 66.5 | 68.6 | 190.0 | 266.7 | 323.9 | 162.1 | 374.7 | 279.4 | 26.2 | 24 | 144.5 | 78.0 | 3.3 | 33.8 | 147.8 | 178.3 | 46.3 | |
| QVCW26V115S ⁽⁴⁾ | 115 mm | | 2.62 | 2.70 | 7.48 | 10.50 | 12.75 ⁽⁴⁾ | 6.38 ⁽⁴⁾ | 14.75 | 11.00 | 1.03 ⁽⁴⁾ | 7/8 | 5.69 | 3.07 | 0.13 | 1.33 | 5.82 | 7.02 | 102 | |
| QVCW28V125S ⁽⁴⁾ | 125 mm | 22228 | 66.5 | 68.6 | 190.0 | 266.7 | 323.9 | 162.1 | 374.7 | 279.4 | 26.2 | 24 | 144.5 | 78.0 | 3.3 | 33.8 | 147.8 | 178.3 | 46.3 | |
| QVCW28V415S ⁽⁴⁾ | 4 15/16 in. | | 2.62 | 2.70 | 7.48 | 10.50 | 12.75 ⁽⁴⁾ | 6.38 ⁽⁴⁾ | 14.75 | 11.00 | 1.03 ⁽⁴⁾ | 7/8 | 5.69 | 3.07 | 0.13 | 1.33 | 5.82 | 7.02 | 102 | |
| QVCW28V500S ⁽⁴⁾ | 5 in. | 22228 | 66.5 | 68.6 | 190.0 | 266.7 | 323.9 | 162.1 | 374.7 | 279.4 | 26.2 | 24 | 144.5 | 78.0 | 3.3 | 33.8 | 147.8 | 178.3 | 46.3 | |
| QVCW28V130S ⁽⁴⁾ | 130 mm | | 2.62 | 2.70 | 7.48 | 10.50 | 12.75 ⁽⁴⁾ | 6.38 ⁽⁴⁾ | 14.75 | 11.00 | 1.03 ⁽⁴⁾ | 7/8 | 5.69 | 3.07 | 0.13 | 1.33 | 5.82 | 7.02 | 102 | |

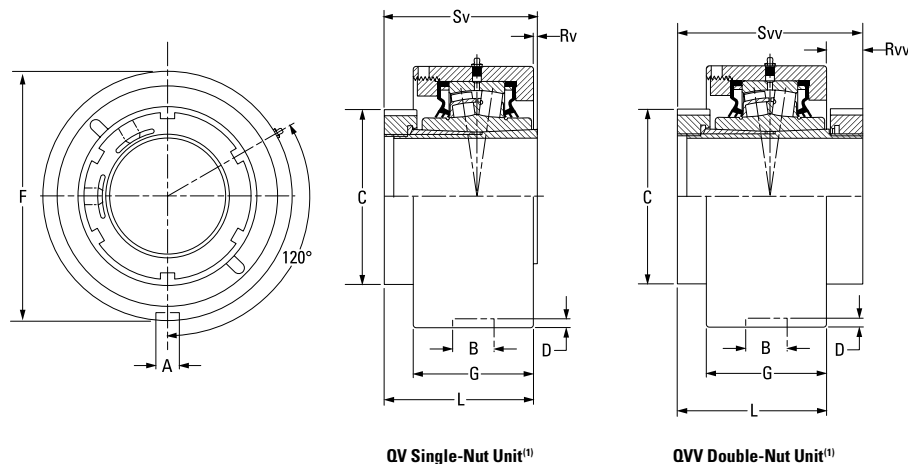
⁽¹⁾Bearing part numbers use QV to designate single-nut units (uses Rv and Sv dimensions) and QVV to designate double-nut units (uses Rvv and Svv dimensions).

⁽²⁾Single-nut (QV) part number shown. Double-nut (QVV) version available upon request.

⁽³⁾Pilot tolerance: +0/-0.05 mm (+0/-0.002 in.).

⁽⁴⁾Six-bolt round housing.

QVMC AND QVVMC CARTRIDGE BLOCKS – TAPERED BORE EQUIVALENT

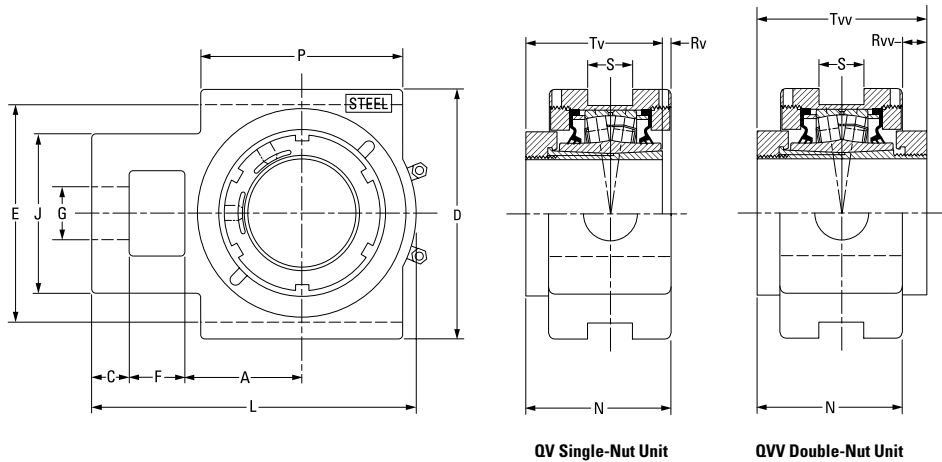


| Bearing Part No. ⁽¹⁾⁽²⁾ | Shaft Dia. | Bearing No. | A | B | C | D | F | G | L | L | Rv ⁽¹⁾ | Rvv | Sv ⁽¹⁾ | Svv | Wt. | |
|------------------------------------|-------------|-------------|-----------|-----------|-----------|-----------|-------------------|-----------|-----------|-----------|-------------------|-----------|-------------------|-----------|-----------|-----------|
| | | | 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. | mm in. |
| QVMC11V115S | 1 15/16 in. | 22211 | 13.5 | 23.0 | 75.9 | 4.8 | 115.09 (+0/-0.05) | 55.4 | 79.0 | 81.0 | 0.8 | 23.1 | 79.8 | 102.1 | 4.5 | |
| QVMC11V200S | 2 in. | | 0.530 | 0.91 | 2.99 | 0.19 | 4.53 (+0/-0.002) | 2.18 | 3.11 | 3.19 | 0.03 | 0.91 | 3.14 | 4.02 | 10 | |
| QVMC11V050S | 50 mm | | | | | | | | | | | | | | | |
| QVMC13V203S | 2 3/8 in. | 22213 | 13.5 | 23.0 | 80.3 | 4.8 | 127.00 (+0/-0.05) | 67.1 | 85.9 | 87.9 | 0.5 | 21.8 | 85.3 | 107.7 | 5.4 | |
| QVMC13V204S | 2 1/4 in. | | 0.530 | 0.91 | 3.16 | 0.19 | 5.00 (+0/-0.002) | 2.64 | 3.38 | 3.46 | 0.02 | 0.86 | 3.36 | 4.24 | 12 | |
| QVMC13V055S | 55 mm | | | | | | | | | | | | | | | |
| QVMC15V060S | 60 mm | 22215 | 15.1 | 26.2 | 94.0 | 6.4 | 149.23 (+0/-0.05) | 70.6 | 87.4 | 89.4 | 5.1 | 16.5 | 82.6 | 103.9 | 8.2 | |
| QVMC15V207S | 2 7/8 in. | | 0.594 | 1.03 | 3.70 | 0.25 | 5.86 (+0/-0.002) | 2.78 | 3.44 | 3.52 | 0.20 | 0.65 | 3.25 | 4.09 | 18 | |
| QVMC15V208S | 2 1/2 in. | | | | | | | | | | | | | | | |
| QVMC15V065S | 65 mm | | | | | | | | | | | | | | | |
| QVMC17V211S | 2 11/16 in. | 22217 | 15.1 | 27.5 | 106.4 | 7.1 | 171.45 (+0/-0.05) | 74.9 | 91.2 | 93.2 | 6.4 | 15.0 | 84.6 | 106.2 | 11.8 | |
| QVMC17V212S | 2 3/4 in. | | 0.594 | 1.08 | 4.19 | 0.28 | 6.75 (+0/-0.002) | 2.95 | 3.59 | 3.67 | 0.25 | 0.59 | 3.33 | 4.18 | 26 | |
| QVMC17V070S | 70 mm | | | | | | | | | | | | | | | |
| QVMC17V215S | 2 5/8 in. | | | | | | | | | | | | | | | |
| QVMC17V300S | 3 in. | | | | | | | | | | | | | | | |
| QVMC17V075S | 75 mm | 22220 | 19.8 | 32.5 | 124.5 | 8.0 | 206.38 (+0/-0.05) | 85.6 | 102.1 | 104.1 | 6.9 | 15.2 | 95.3 | 117.3 | 14.5 | |
| QVMC20V303S | 3 3/8 in. | | 0.781 | 1.28 | 4.90 | 0.31 | 8.13 (+0/-0.002) | 3.37 | 4.02 | 4.10 | 0.27 | 0.60 | 3.75 | 4.62 | 32 | |
| QVMC20V304S | 3 1/4 in. | | | | | | | | | | | | | | | |
| QVMC20V080S | 80 mm | | | | | | | | | | | | | | | |
| QVMC20V085S | 85 mm | | | | | | | | | | | | | | | |
| QVMC20V307S | 3 7/8 in. | | | | | | | | | | | | | | | |
| QVMC20V308S | 3 1/2 in. | 22222 | 19.8 | 32.5 | 139.7 | 8.0 | 222.25 (+0/-0.08) | 97.8 | 113.0 | 115.1 | 8.1 | 14.0 | 104.9 | 126.7 | 18.1 | |
| QVMC20V090S | 90 mm | | 0.781 | 1.28 | 5.50 | 0.31 | 8.75 (+0/-0.003) | 3.85 | 4.45 | 4.53 | 0.32 | 0.55 | 4.13 | 4.99 | 40 | |
| QVMC22V311S | 3 11/16 in. | | | | | | | | | | | | | | | |
| QVMC22V312S | 3 3/4 in. | | | | | | | | | | | | | | | |
| QVMC22V100S | 100 mm | 22226 | 19.8 | 38.1 | 174.8 | 8.0 | 265.10 (+0/-0.08) | 104.4 | 141.5 | 143.5 | 6.4 | 36.8 | 147.8 | 178.3 | 23.6 | |
| QVMC22V315S | 3 15/16 in. | | 0.780 | 1.50 | 6.88 | 0.31 | 10.44 (+0/-0.003) | 4.11 | 5.57 | 5.65 | 0.25 | 1.45 | 5.82 | 7.02 | 52 | |
| QVMC22V400S | 4 in. | | | | | | | | | | | | | | | |
| QVMC26V110S | 110 mm | | | | | | | | | | | | | | | |
| QVMC26V407S | 4 7/8 in. | | | | | | | | | | | | | | | |
| QVMC26V408S | 4 1/2 in. | | | | | | | | | | | | | | | |
| QVMC26V115S | 115 mm | | | | | | | | | | | | | | | |

⁽¹⁾Bearing part numbers use QV to designate single-nut units (uses Rv and Sv dimensions) and QVV to designate double-nut units (uses Rvv and Svv dimensions).

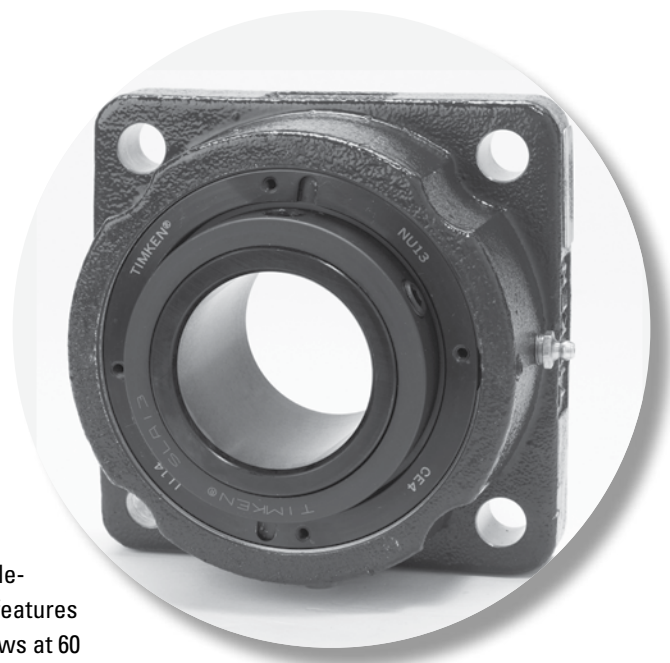
⁽²⁾Single-nut (QV) part number shown. Double-nut (QVV) version available upon request.

QVVTU TAKE-UP BLOCKS – STRAIGHT BORE EQUIVALENT



| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | C | D | E | F | G | J | L | N | P | S | Rv ⁽¹⁾ | Rv' | Tv ⁽¹⁾ | Tv' | Wt. | |
|---------------------------------|-------------|-------------|---------------|--------------|---------------|---------------|--------------|--------------|---------------|----------------|---------------|---------------|--------------|-------------------|--------------|-------------------|---------------|------------|--|
| | 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. | mm in. | mm in. | mm in. | kg lbs. | |
| QVVTU14V060S | 60 mm | 22214 | 69.9 2.75 | 22.4 0.88 | 149.4 5.88 | 130.3 5.13 | 33.3 1.31 | 35.1 1.38 | 95.3 3.75 | 193.8 7.63 | 88.4 3.48 | 120.7 4.75 | 26.9 1.06 | 3.3 0.13 | 15.5 0.61 | 85.1 3.35 | 103.9 4.09 | 7.7 17 | |
| QVVTU14V207S | 2 7/16 in. | | | | | | | | | | | | | | | | | | |
| QVVTU14V208S | 2 1/2 in. | | | | | | | | | | | | | | | | | | |
| QVVTU14V065S | 65 mm | | | | | | | | | | | | | | | | | | |
| QVVTU16V211S | 2 1/16 in. | 22216 | 76.2 3.00 | 25.4 1.00 | 171.5 6.75 | 150.9 5.94 | 39.6 1.56 | 39.6 1.56 | 108.0 4.25 | 219.7 8.65 | 90.2 3.55 | 120.7 4.75 | 46.0 1.81 | 2.3 0.09 | 16.3 0.64 | 87.6 3.45 | 106.2 4.18 | 15.9 35 | |
| QVVTU16V212S | 2 3/4 in. | | | | | | | | | | | | | | | | | | |
| QVVTU16V070S | 70 mm | | | | | | | | | | | | | | | | | | |
| QVVTU16V215S | 2 15/16 in. | | | | | | | | | | | | | | | | | | |
| QVVTU16V300S | 3 in. | 22219 | 92.2 3.63 | 25.4 1.00 | 193.8 7.63 | 173.0 6.81 | 46.0 1.81 | 49.3 1.94 | 124.0 4.88 | 257.0 10.12 | 99.6 3.92 | 158.8 6.25 | 46.0 1.81 | 0.5 0.02 | 18.0 0.71 | 99.1 3.90 | 117.6 4.63 | 20.0 44 | |
| QVVTU16V075S | 75 mm | | | | | | | | | | | | | | | | | | |
| QVVTU19V303S | 3 3/16 in. | | | | | | | | | | | | | | | | | | |
| QVVTU19V304S | 3 1/4 in. | | | | | | | | | | | | | | | | | | |
| QVVTU19V080S | 80 mm | 22222 | 104.9 4.13 | 28.7 1.13 | 239.8 9.44 | 219.2 8.63 | 54.1 2.13 | 50.8 2.00 | 143.0 5.63 | 296.9 11.69 | 111.3 4.21 | 177.8 7.00 | 52.3 2.06 | 1.5 0.32 | 18.8 0.55 | 110.0 4.13 | 130.3 4.99 | 26.3 58 | |
| QVVTU19V085S | 85 mm | | | | | | | | | | | | | | | | | | |
| QVVTU19V307S | 3 7/16 in. | | | | | | | | | | | | | | | | | | |
| QVVTU19V308S | 3 1/2 in. | | | | | | | | | | | | | | | | | | |
| QVVTU19V090S | 90 mm | | | | | | | | | | | | | | | | | | |
| QVVTU22V311S | 3 1/16 in. | | | | | | | | | | | | | | | | | | |
| QVVTU22V312S | 3 3/4 in. | | | | | | | | | | | | | | | | | | |
| QVVTU22V100S | 100 mm | | | | | | | | | | | | | | | | | | |
| QVVTU22V315S | 3 15/16 in. | | | | | | | | | | | | | | | | | | |
| QVVTU22V400S | 4 in. | | | | | | | | | | | | | | | | | | |

⁽¹⁾Double-nut (QVV) part number shown. Single-nut (QV) version available upon request.



CL SERIES

Available in both single-collar (QA) and double-collar (QAA) versions, the CL bearing series features a concentric locking collar with two set screws at 60 degrees to provide maximum positive locking power with minimal run out.

The following topics are covered within this section:

| | |
|---|-----|
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| QAPL and QAAPL Two-Bolt Pillow Blocks | 121 |
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CL SERIES



Fig. 47. CL series single-collar (QA) insert available up to 100 mm (4 in.).



Fig. 48. CL series double-collar (QAA) insert for size ranges 50 mm – 130 mm (1 15/16 in. – 5 in.).

YOU HAVE CHOICES

For the CL series, you can select either single-collar or double-collar versions and choose from many seal configurations and housing styles, which are shown on page 15.

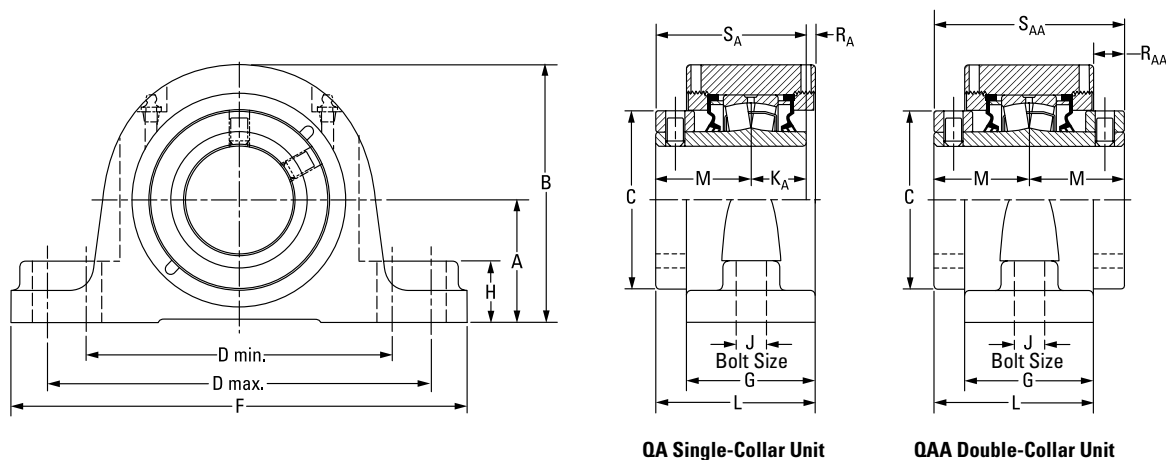
HOUSINGS

- Two-bolt pillow blocks
- Four-bolt pillow blocks
- Flange blocks
- Piloted flange cartridges
- Take-up blocks
- Cartridge blocks
- Hanger blocks

SEALS

- Labyrinth: DuPont™ Teflon® (T)
- Triple-lip: nitrile rubber (M), urethane (O) and Viton® (N)
- Double-lip: nitrile rubber (B) and Viton (C)
- Steel and urethane closed-end covers (CS)
- Steel and urethane open-end covers (CJ) with:
 - DuPont Teflon (T)
 - Triple-lip seal (DR)
 - V-ring seal (VR)
- Piloted flange cartridge backing plates (HSY) with:
 - Triple-lip seal (DR)
- Flange block backing plates (UFP)
 - V-ring (VR)

QAP AND QAAP STAINLESS STEEL TWO-BOLT PILLOW BLOCKS



OA Single-Collar Unit

QAA Double-Collar Unit

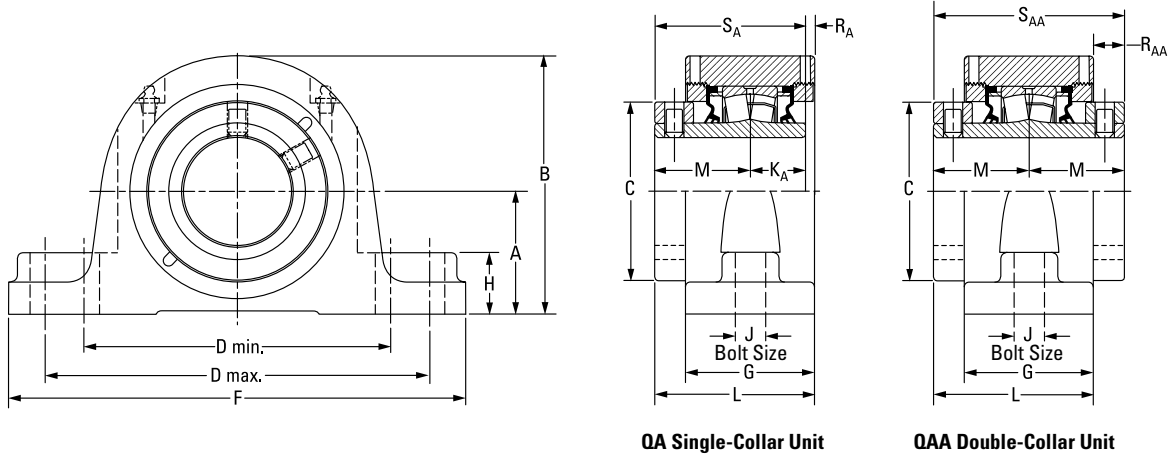
| Bearing Part No. ⁽¹⁾⁽²⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | F | G | H | J | K _A | L | M | R _A | R _{AA} | S _A | S _{AA} | Wt. |
|------------------------------------|--------------|-------------|-------------|--------------|-------------|--------------|--------------|--------------|-------------|-------------|------------|----------------|-------------|-------------|----------------|-----------------|----------------|-----------------|-------------|
| | | | 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. | mm in. | mm in. | mm in. | mm in. |
| QAP08A035SOSS | 35 mm | 22208 | 47.8 | 94.7 | 60.5 | 119.1 | 152.4 | 174.8 | 57.2 | 25.4 | 12 | 25.4 | 73.2 | 44.5 | 3.3 | — | 69.9 | — | 4.1 |
| QAP08A107SOSS | 1 7/16 in. | | 1.88 | 3.73 | 2.38 | 4.69 | 6.00 | 6.88 | 2.25 | 1.00 | 1/2 | 1.00 | 2.88 | 1.75 | 0.13 | — | 2.75 | — | 9 |
| QAP08A108SOSS | 1 1/2 in. | 22208 | 54.1 | 101.1 | 60.5 | 119.1 | 165.1 | 200.2 | 57.2 | 25.4 | 1/2 | 25.4 | 73.2 | 44.5 | 3.3 | — | 69.9 | — | 4.1 |
| | | | 2.13 | 3.98 | 2.38 | 4.69 | 6.50 | 7.88 | 2.25 | 1.00 | 1/2 | 1.00 | 2.88 | 1.75 | 0.13 | — | 2.75 | — | 9 |
| QAP09A111SOSS | 1 1/16 in. | 22209 | 54.1 | 104.9 | 66.8 | 144.8 | 165.1 | 200.2 | 60.2 | 31.8 | 12 | 25.4 | 78.0 | 47.8 | 4.8 | — | 73.2 | — | 4.5 |
| | | | 2.13 | 4.13 | 2.63 | 5.70 | 6.50 | 7.88 | 2.37 | 1.25 | 1/2 | 1.00 | 3.07 | 1.88 | 0.19 | — | 2.88 | — | 10 |
| QAP09A040SOSS | 40 mm | 22209 | | | | | | | | | | | | | | | | | |
| QAP09A112SOSS | 1 3/4 in. | | 57.2 | 108.0 | 66.8 | 158.8 | 180.8 | 225.6 | 62.0 | 31.8 | 16 | 25.4 | 78.7 | 47.8 | 5.6 | — | 73.2 | — | 4.5 |
| | | | 2.25 | 4.25 | 2.63 | 6.25 | 7.12 | 8.88 | 2.44 | 1.25 | 5/8 | 1.00 | 3.10 | 1.88 | 0.22 | — | 2.88 | — | 10 |
| QAP09A045SOSS | 45 mm | | | | | | | | | | | | | | | | | | |
| QAP10A115SOSS | 1 9/16 in. | 22210 | | | | | | | | | | | | | | | | | |
| QAAP10A115SOSS | | | | | | | | | | | | | | | | | | | |
| QAP10A200SOSS | 2 in. | | 57.2 | 122.2 | 73.2 | 152.4 | 181.1 | 225.6 | 62.0 | 31.8 | 16 | 25.4 | 79.0 | 47.5 | 6.1 | 17.0 | 72.9 | 95.3 | 5.9 |
| QAAP10A200SOSS | | | 2.25 | 4.81 | 2.88 | 6.00 | 7.13 | 8.88 | 2.44 | 1.25 | 5/8 | 1.00 | 3.11 | 1.87 | 0.24 | 0.67 | 2.87 | 3.75 | 13 |
| QAP10A050SOSS | 50 mm | | | | | | | | | | | | | | | | | | |
| QAAP10A050SOSS | | | | | | | | | | | | | | | | | | | |
| QAP11A203SOSS | 2 3/16 in. | 22211 | | | | | | | | | | | | | | | | | |
| QAAP11A203SOSS | | | | | | | | | | | | | | | | | | | |
| QAP11A204SOSS | 2 1/4 in. | | 63.5 | 133.4 | 82.6 | 165.1 | 200.2 | 244.6 | 66.8 | 31.8 | 16 | 28.7 | 84.3 | 50.8 | 4.8 | 17.5 | 79.5 | 101.6 | 7.7 |
| QAAP11A204SOSS | | | 2.50 | 5.25 | 3.25 | 6.50 | 7.88 | 9.63 | 2.63 | 1.25 | 5/8 | 1.13 | 3.32 | 2.00 | 0.19 | 0.69 | 3.13 | 4.00 | 17 |
| QAP11A055SOSS | 55 mm | | | | | | | | | | | | | | | | | | |
| QAAP11A055SOSS | | | | | | | | | | | | | | | | | | | |
| QAP13A060SOSS | 60 mm | 22213 | | | | | | | | | | | | | | | | | |
| QAAP13A060SOSS | | | | | | | | | | | | | | | | | | | |
| QAP13A207SOSS | 2 7/16 in. | | 69.9 | 147.3 | 96.8 | 174.8 | 219.2 | 260.4 | 73.7 | 35.1 | 16 | 31.5 | 91.4 | 54.6 | 5.3 | 17.8 | 86.1 | 109.2 | 10.0 |
| QAAP13A207SOSS | | | 2.75 | 5.80 | 3.81 | 6.88 | 8.63 | 10.25 | 2.90 | 1.38 | 5/8 | 1.24 | 3.60 | 2.15 | 0.21 | 0.70 | 3.39 | 4.30 | 22 |
| QAP13A208SOSS | 2 1/2 in. | | | | | | | | | | | | | | | | | | |
| QAAP13A208SOSS | | | | | | | | | | | | | | | | | | | |
| QAP13A065SOSS | 65 mm | | | | | | | | | | | | | | | | | | |
| QAAP13A065SOSS | | | | | | | | | | | | | | | | | | | |

⁽¹⁾Bearing part numbers use QA to designate single-collar units (use S_A and R_A dimensions) and QAA to designate double-collar units (use S_{AA} and R_{AA} dimensions).

⁽²⁾Part number shown with 'O' seals – additional seals available upon request.

Continued on next page.

QAP AND QAAP STAINLESS STEEL TWO-BOLT PILLOW BLOCKS – continued



QA Single-Collar Unit

QAA Double-Collar Unit

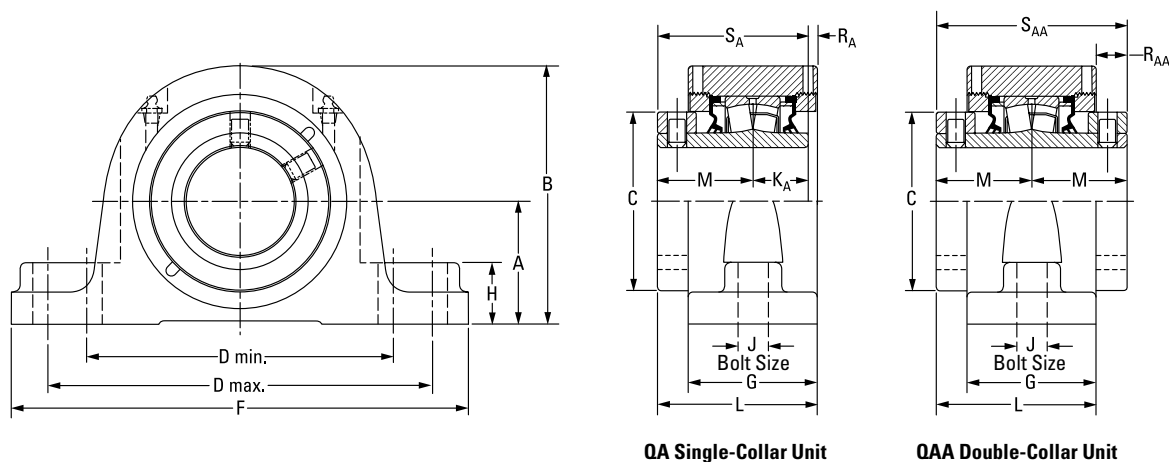
Continued from previous page.

| Bearing Part No. ⁽¹⁾⁽²⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | F | G | H | J | KA | L | M | RA | RAA | SA | SAA | Wt. |
|------------------------------------|-------------|-------------|---------------|---------------|---------------|----------------|----------------|----------------|--------------|--------------|-----------|--------------|---------------|--------------|-------------|--------------|---------------|---------------|------------|
| | | | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm |
| QAP15A211SOSS QAAP15A211SOSS | 2 1/16 in. | 22215 | 79.5 3.13 | 164.3 6.47 | 109.0 4.29 | 200.2 7.88 | 244.6 9.63 | 295.4 11.63 | 76.2 3.00 | 35.1 1.38 | 20 3/4 | 31.8 1.25 | 98.3 3.87 | 60.2 2.37 | 6.4 0.25 | 22.1 0.87 | 91.9 3.62 | 120.4 4.74 | 12.7 28 |
| QAP15A212SOSS QAAP15A212SOSS | 2 3/4 in. | | | | | | | | | | | | | | | | | | |
| QAP15A070SOSS QAAP15A070SOSS | 70 mm | | | | | | | | | | | | | | | | | | |
| QAP15A215SOSS QAAP15A215SOSS | 2 15/16 in. | | | | | | | | | | | | | | | | | | |
| QAP15A300SOSS QAAP15A300SOSS | 3 in. | | | | | | | | | | | | | | | | | | |
| QAP15A075SOSS QAAP15A075SOSS | 75 mm | | | | | | | | | | | | | | | | | | |
| QAP18A303SOSS QAAP18A303SOSS | 3 3/16 in. | 22218 | 95.3 3.75 | 195.3 7.69 | 130.3 5.13 | 238.3 9.38 | 285.8 11.25 | 342.9 13.50 | 86.6 3.41 | 47.8 1.88 | 24 7/8 | 36.6 1.44 | 109.2 4.30 | 65.8 2.59 | 6.9 0.27 | 22.6 0.89 | 102.4 4.03 | 131.6 5.18 | 20.4 45 |
| QAP18A304SOSS QAAP18A304SOSS | 3 1/4 in. | | | | | | | | | | | | | | | | | | |
| QAP18A080SOSS QAAP18A080SOSS | 80 mm | | | | | | | | | | | | | | | | | | |
| QAP18A085SOSS QAAP18A085SOSS | 85 mm | | | | | | | | | | | | | | | | | | |
| QAP18A307SOSS QAAP18A307SOSS | 3 7/16 in. | | | | | | | | | | | | | | | | | | |
| QAP18A308SOSS QAAP18A308SOSS | 3 1/2 in. | | | | | | | | | | | | | | | | | | |
| QAP18A090SOSS QAAP18A090SOSS | 90 mm | 22220 | 104.9 4.13 | 209.8 8.26 | 152.4 6.00 | 255.0 10.04 | 320.0 12.60 | 362.0 14.25 | 94.7 3.73 | 50.8 2.00 | 24 1 | 41.4 1.63 | 122.9 4.84 | 75.4 2.97 | 6.1 0.24 | 28.2 1.11 | 116.8 4.60 | 150.9 5.94 | 26.8 59 |
| QAP20A315SOSS QAAP20A315SOSS | 3 15/16 in. | | | | | | | | | | | | | | | | | | |
| QAP20A400SOSS QAAP20A400SOSS | 4 in. | | | | | | | | | | | | | | | | | | |
| QAP20A100SOSS QAAP20A100SOSS | 100 mm | | | | | | | | | | | | | | | | | | |

⁽¹⁾Bearing part numbers use QA to designate single-collar units (use SA and RA dimensions) and QAA to designate double-collar units (use SAA and RAA dimensions).

⁽²⁾Part number shown with 'O' seals – additional seals available upon request.

QAPL AND QAAPL TWO-BOLT PILLOW BLOCKS



QA Single-Collar Unit

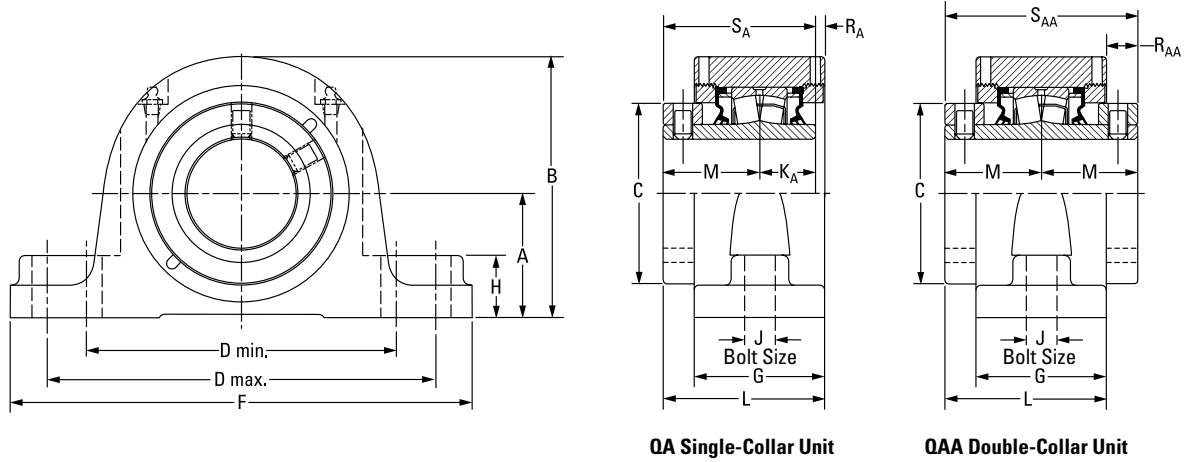
QAA Double-Collar Unit

| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | F | G | H | J | K _A | L | M | R _A | R _{AA} | S _A | S _{AA} | Wt. | | |
|---------------------------------|--------------|-------------|---------------------|----------------------|---------------------|----------------------|----------------------|----------------------|---------------------|---------------------|------------------|---------------------|---------------------|---------------------|--------------------|---------------------|---------------------|----------------------|--------|-------------------|---------|
| | | | 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. | mm in. | mm in. | mm in. | mm in. | mm in. | kg lbs. |
| QAPL08A035S | 35 mm | 22208 | 47.8 1.88 | 94.7 3.73 | 60.5 2.38 | 119.1 4.69 | 152.4 6.00 | 174.8 6.88 | 57.2 2.25 | 25.4 1.00 | 12 ½ | 25.4 1.00 | 73.2 2.88 | 44.5 1.75 | 3.3 0.13 | - | 69.9 2.75 | - | - | 4.1 9 | |
| QAPL08A107S | 1 7/16 in. | | | | | | | | | | | | | | | | | | | | |
| QAPL08A108S | 1 ½ in. | | | | | | | | | | | | | | | | | | | | |
| QAPL09A040S | 40 mm | 22209 | 54.1 2.13 | 104.9 4.13 | 66.8 2.63 | 133.4 5.25 | 146.1 5.75 | 181.1 7.13 | 60.2 2.37 | 31.8 1.25 | 12 ½ | 25.4 1.00 | 78.0 3.07 | 47.8 1.88 | 4.8 0.19 | - | 73.2 2.88 | - | - | 4.5 10 | |
| QAPL09A111S | 1 1/16 in. | | | | | | | | | | | | | | | | | | | | |
| QAPL09A112S | 1 ¾ in. | | | | | | | | | | | | | | | | | | | | |
| QAPL09A045S | 45 mm | 22210 | 57.2 2.25 | 122.2 4.81 | 73.2 2.88 | 150.6 5.93 | 161.5 6.36 | 212.9 8.38 | 62.0 2.44 | 31.8 1.25 | 16 5/8 | 25.4 1.00 | 79.0 3.11 | 47.5 1.87 | 6.1 0.24 | 17.0 0.67 | 72.9 2.87 | 95.3 3.75 | - | 5.9 13 | |
| QAPL10A115S QAAPL10A115S | 1 1/16 in. | | | | | | | | | | | | | | | | | | | | |
| QAPL10A200S QAAPL10A200S | 2 in. | | | | | | | | | | | | | | | | | | | | |
| QAPL10A050S QAAPL10A050S | 50 mm | 22211 | 63.5 2.50 | 133.4 5.25 | 82.6 3.25 | 165.1 6.50 | 179.3 7.06 | 225.6 8.88 | 65.5 2.58 | 31.8 1.25 | 16 5/8 | 28.7 1.13 | 83.6 3.29 | 50.8 2.00 | 4.1 0.16 | 18.0 0.71 | 79.5 3.13 | 101.6 4.00 | - | 7.7 17 | |
| QAPL11A203S QAAPL11A203S | 2 3/16 in. | | | | | | | | | | | | | | | | | | | | |
| QAPL11A204S QAAPL11A204S | 2 ¼ in. | | | | | | | | | | | | | | | | | | | | |
| QAPL11A055S QAAPL11A055S | 55 mm | 22213 | 69.9 2.75 | 147.3 5.80 | 96.8 3.81 | 173.0 6.81 | 189.0 7.44 | 235.0 9.25 | 73.7 2.90 | 35.1 1.38 | 16 5/8 | 31.5 1.24 | 91.4 3.60 | 54.6 2.15 | 5.3 0.21 | 17.8 0.70 | 86.1 3.39 | 109.2 4.30 | - | 10.0 22 | |
| QAPL13A060S QAAPL13A060S | 60 mm | | | | | | | | | | | | | | | | | | | | |
| QAPL13A207S QAAPL13A207S | 2 7/16 in. | | | | | | | | | | | | | | | | | | | | |
| QAPL13A208S QAAPL13A208S | 2 ½ in. | | | | | | | | | | | | | | | | | | | | |
| QAPL13A065S QAAPL13A065S | 65 mm | | | | | | | | | | | | | | | | | | | | |

⁽¹⁾Bearing part numbers use QA to designate single-collar units (use S_A and R_A dimensions) and QAA to designate double-collar units (use S_{AA} and R_{AA} dimensions).

Continued on next page.

QAPL AND QAAPL TWO-BOLT PILLOW BLOCKS – continued

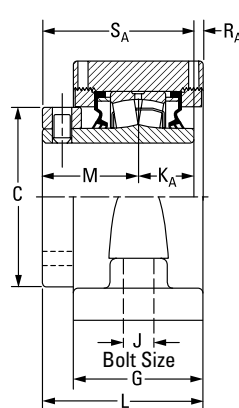
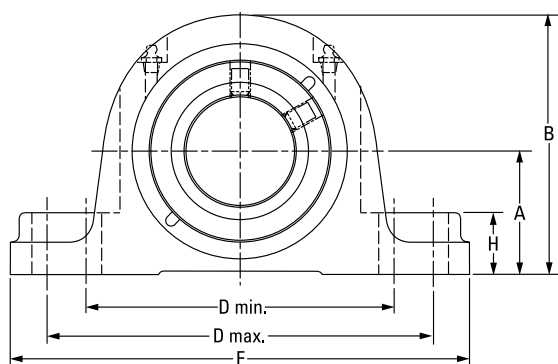


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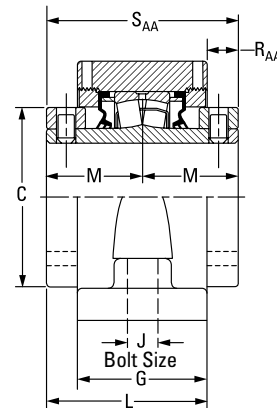
| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | F | G | H | J | K _A | L | M | R _A | R _{AA} | S _A | S _{AA} | Wt. | |
|---------------------------------|-------------|-------------|---------------|---------------|---------------|----------------|----------------|----------------|--------------|--------------|-----------|----------------|---------------|--------------|----------------|-----------------|----------------|-----------------|------------|------------|
| | 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. | mm in. | mm in. | mm in. | mm in. | mm in. | kg lbs. |
| QAAPL15A211S | 2 1/16 in. | 22215 | 82.6 3.25 | 167.4 6.59 | 109.0 4.29 | 195.6 7.70 | 213.4 8.40 | 265.2 10.44 | 76.2 3.00 | 35.1 1.38 | 20 3/4 | 31.8 1.25 | 98.3 3.87 | 60.2 2.37 | 6.4 0.25 | 22.1 0.87 | 91.9 3.62 | 120.4 4.74 | 12.7 28 | |
| QAAPL15A212S | 2 3/4 in. | | | | | | | | | | | | | | | | | | | |
| QAAPL15A070S | 70 mm | | | | | | | | | | | | | | | | | | | |
| QAAPL15A215S | 2 15/16 in. | | | | | | | | | | | | | | | | | | | |
| QAAPL15A300S | 3 in. | | | | | | | | | | | | | | | | | | | |
| QAAPL15A075S | 75 mm | 22218 | 95.3 3.75 | 195.3 7.69 | 130.3 5.13 | 235.0 9.25 | 273.1 10.75 | 330.2 13.00 | 86.6 3.41 | 47.8 1.88 | 24 7/8 | 36.6 1.44 | 109.2 4.30 | 65.8 2.59 | 6.9 0.27 | 22.6 0.89 | 102.4 4.03 | 131.6 5.18 | 20.4 45 | |
| QAAPL18A303S | 3 3/16 in. | | | | | | | | | | | | | | | | | | | |
| QAAPL18A304S | 3 1/4 in. | | | | | | | | | | | | | | | | | | | |
| QAAPL18A080S | 80 mm | | | | | | | | | | | | | | | | | | | |
| QAAPL18A085S | 85 mm | | | | | | | | | | | | | | | | | | | |
| QAAPL18A307S | 3 7/16 in. | 22220 | 108.0 4.25 | 212.9 8.38 | 152.4 6.00 | 255.0 10.04 | 320.0 12.60 | 362.0 14.25 | 94.7 3.73 | 54.1 2.13 | 24 1 | 41.4 1.63 | 122.9 4.84 | 75.4 2.97 | 6.1 0.24 | 28.2 1.11 | 116.8 4.60 | 150.9 5.94 | 26.8 59 | |
| QAAPL18A308S | 3 1/2 in. | | | | | | | | | | | | | | | | | | | |
| QAAPL18A090S | 90 mm | | | | | | | | | | | | | | | | | | | |
| QAAPL20A315S | 3 15/16 in. | | | | | | | | | | | | | | | | | | | |
| QAAPL20A400S | 4 in. | | | | | | | | | | | | | | | | | | | |
| QAAPL20A100S | 100 mm | | | | | | | | | | | | | | | | | | | |

⁽¹⁾Bearing part numbers use QA to designate single-collar units (use S_A and R_A dimensions) and QAA to designate double-collar units (use S_{AA} and R_{AA} dimensions).

QASN AND QAASN SN-STYLE TWO-BOLT PILLOW BLOCKS – PURE METRIC DESIGN



QA Single-Collar Unit



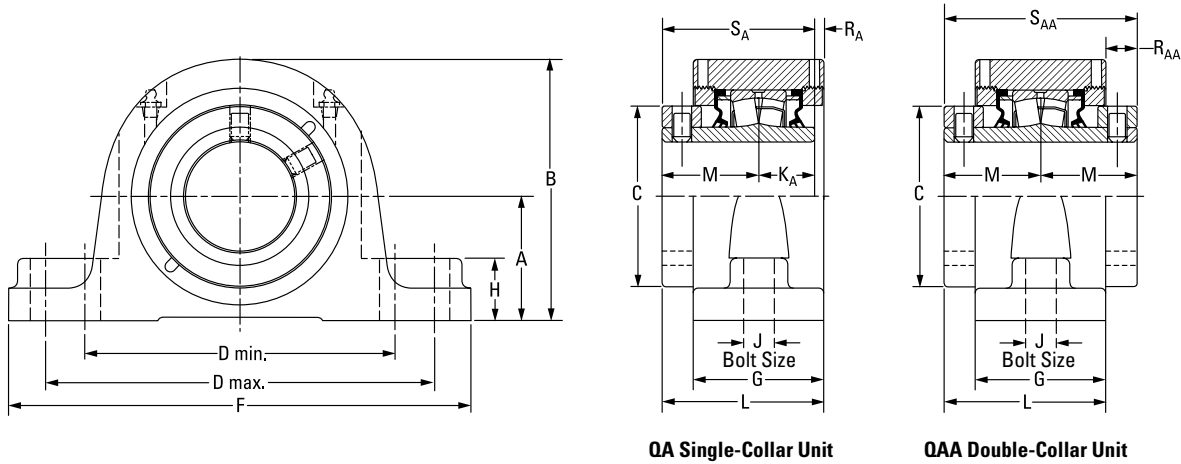
QAA Double-Collar Unit

| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | F | G | H | J | K _A | L | M | R _A | R _{AA} | S _A | S _{AA} | Wt. |
|---------------------------------|--------------|-------------|-----------|------------|--------------|------------|------------|------------|-----------|-----------|-----------|----------------|-----------|-----------|----------------|-----------------|----------------|-----------------|-------------|
| | | | 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. | mm in. | mm in. | mm in. | mm in. |
| QASN08A035S | 35 mm | 22208 | 60 | 111 | 60.5 | 159 | 175 | 205 | 62 | 35 | 12 | 25 | 75 | 44 | 5 | - | 70 | - | 10.5 |
| QASN08A107S | 1 7/16 in. | | 2.36 | 4.37 | 2.38 | 6.26 | 6.89 | 8.07 | 2.44 | 1.38 | 1/2 | 1.00 | 2.95 | 1.75 | 0.20 | - | 2.75 | - | 23 |
| QASN08A108S | 1 1/2 in. | | | | | | | | | | | | | | | | | | |
| QASN09A040S | 40 mm | 22209 | 60 | 111 | 66.8 | 159 | 175 | 205 | 62 | 35 | 12 | 25 | 79 | 48 | 6 | - | 73 | - | 10.5 |
| QASN09A111S | 1 11/16 in. | | 2.36 | 4.37 | 2.63 | 6.26 | 6.89 | 8.07 | 2.44 | 1.38 | 1/2 | 1.00 | 3.10 | 1.88 | 0.22 | - | 2.88 | - | 23 |
| QASN09A112S | 1 3/4 in. | | | | | | | | | | | | | | | | | | |
| QASN09A045S | 45 mm | 22210 | 60 | 111 | 66.8 | 159 | 175 | 205 | 62 | 35 | 12 | 25 | 79 | 48 | 6 | - | 73 | - | 10.5 |
| QASN10A115S | 1 15/16 in. | | 2.36 | 4.37 | 2.63 | 6.26 | 6.89 | 8.07 | 2.44 | 1.38 | 1/2 | 1.00 | 3.10 | 1.88 | 0.22 | - | 2.88 | - | 23 |
| QAASN10A115S | | | | | | | | | | | | | | | | | | | |
| QASN10A200S | 50 mm | 22211 | 70 | 136 | 73 | 183 | 216 | 254 | 68 | 25 | 16 | 25.4 | 82 | 48 | 9 | 14 | 73 | 95 | 12.7 |
| QAASN10A200S | 2 in. | | 2.76 | 5.35 | 2.87 | 7.20 | 8.50 | 10.00 | 2.68 | 0.98 | 5/8 | 1.00 | 3.23 | 1.87 | 0.35 | 0.55 | 2.87 | 3.75 | 28 |
| QASN10A050S | 50 mm | | | | | | | | | | | | | | | | | | |
| QAASN10A050S | | | | | | | | | | | | | | | | | | | |
| QASN11A203S | 55 mm | 22213 | 80 | 157 | 96.8 | 196 | 235 | 275 | 74 | 35 | 16 | 31 | 92 | 55 | 6 | 18 | 86 | 110 | 15.9 |
| QAASN11A204S | 2 3/16 in. | | 2.76 | 5.55 | 3.27 | 7.20 | 8.50 | 10.00 | 2.68 | 0.98 | 5/8 | 1.14 | 3.35 | 2.01 | 0.20 | 0.67 | 3.15 | 4.02 | 29 |
| QASN11A204S | 2 1/4 in. | | | | | | | | | | | | | | | | | | |
| QAASN11A204S | | | | | | | | | | | | | | | | | | | |
| QASN11A055S | 60 mm | 22215 | 95 | 183 | 109.0 | 241 | 279 | 316 | 76 | 34 | 20 | 32 | 98 | 60 | 6 | 22 | 92 | 120 | 20.9 |
| QAASN11A055S | 55 mm | | 3.15 | 6.18 | 3.81 | 7.72 | 9.25 | 10.83 | 2.91 | 1.38 | 5/8 | 1.22 | 3.62 | 2.17 | 0.24 | 0.71 | 3.39 | 4.33 | 35 |
| QASN13A060S | 60 mm | | | | | | | | | | | | | | | | | | |
| QAASN13A060S | | | | | | | | | | | | | | | | | | | |
| QASN13A207S | 65 mm | 22215 | 95 | 183 | 109.0 | 241 | 279 | 316 | 76 | 34 | 20 | 32 | 98 | 60 | 6 | 22 | 92 | 120 | 20.9 |
| QAASN13A207S | 2 7/16 in. | | 3.15 | 6.18 | 3.81 | 7.72 | 9.25 | 10.83 | 2.91 | 1.38 | 5/8 | 1.22 | 3.62 | 2.17 | 0.24 | 0.71 | 3.39 | 4.33 | 35 |
| QASN13A208S | 2 1/2 in. | | | | | | | | | | | | | | | | | | |
| QAASN13A208S | | | | | | | | | | | | | | | | | | | |
| QASN13A065S | 70 mm | 22215 | 95 | 183 | 109.0 | 241 | 279 | 316 | 76 | 34 | 20 | 32 | 98 | 60 | 6 | 22 | 92 | 120 | 20.9 |
| QAASN13A065S | 65 mm | | 3.15 | 6.18 | 3.81 | 7.72 | 9.25 | 10.83 | 2.91 | 1.38 | 5/8 | 1.22 | 3.62 | 2.17 | 0.24 | 0.71 | 3.39 | 4.33 | 35 |
| QASN15A211S | 70 mm | | | | | | | | | | | | | | | | | | |
| QAASN15A211S | | | | | | | | | | | | | | | | | | | |
| QASN15A212S | 75 mm | 22215 | 95 | 183 | 109.0 | 241 | 279 | 316 | 76 | 34 | 20 | 32 | 98 | 60 | 6 | 22 | 92 | 120 | 20.9 |
| QAASN15A212S | 2 3/4 in. | | 3.15 | 6.18 | 3.81 | 7.72 | 9.25 | 10.83 | 2.91 | 1.38 | 5/8 | 1.22 | 3.62 | 2.17 | 0.24 | 0.71 | 3.39 | 4.33 | 35 |
| QASN15A070S | 70 mm | | | | | | | | | | | | | | | | | | |
| QAASN15A070S | | | | | | | | | | | | | | | | | | | |
| QASN15A215S | 75 mm | 22215 | 95 | 183 | 109.0 | 241 | 279 | 316 | 76 | 34 | 20 | 32 | 98 | 60 | 6 | 22 | 92 | 120 | 20.9 |
| QAASN15A215S | 2 15/16 in. | | 3.15 | 6.18 | 3.81 | 7.72 | 9.25 | 10.83 | 2.91 | 1.38 | 5/8 | 1.22 | 3.62 | 2.17 | 0.24 | 0.71 | 3.39 | 4.33 | 35 |
| QASN15A300S | 3 in. | | | | | | | | | | | | | | | | | | |
| QAASN15A300S | | | | | | | | | | | | | | | | | | | |
| QASN15A075S | 75 mm | 22215 | 95 | 183 | 109.0 | 241 | 279 | 316 | 76 | 34 | 20 | 32 | 98 | 60 | 6 | 22 | 92 | 120 | 20.9 |
| QAASN15A075S | 75 mm | | 3.15 | 6.18 | 3.81 | 7.72 | 9.25 | 10.83 | 2.91 | 1.38 | 5/8 | 1.22 | 3.62 | 2.17 | 0.24 | 0.71 | 3.39 | 4.33 | 35 |

⁽¹⁾Bearing part numbers use QA to designate single-collar units (use S_A and R_A dimensions) and QAA to designate double-collar units (use S_{AA} and R_{AA} dimensions).

Continued on next page.

QASN AND QAASN SN-STYLE TWO-BOLT PILLOW BLOCKS – PURE METRIC DESIGN – continued

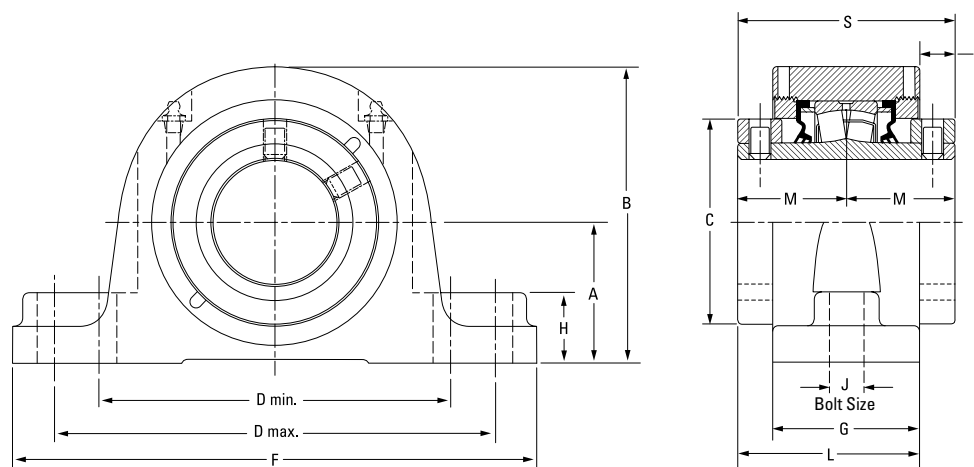


Continued from previous page.

| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | F | G | H | J | KA | L | M | RA | RAA | SA | SAA | Wt. |
|---------------------------------|-------------|-------------|-------------|--------------|-------------|--------------|--------------|--------------|-------------|------------|-------------|------------|-------------|------------|------------|------------|-------------|-------------|------------|
| | | | 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. | mm in. | mm in. | mm in. | mm in. |
| QASN18A303S QAASN18A303S | 3 3/16 in. | 22218 | 100 3.94 | 200 7.87 | 130 5.12 | 279 10.98 | 292 11.50 | 345 13.58 | 86 3.39 | 39 1.54 | 20 3/4 | 37 1.46 | 109 4.29 | 66 2.60 | 6 0.24 | 23 0.91 | 102 4.02 | 132 5.20 | 25.5 56 |
| QASN18A304S QAASN18A304S | 3 1/4 in. | | | | | | | | | | | | | | | | | | |
| QASN18A080S QAASN18A080S | 80 mm | | | | | | | | | | | | | | | | | | |
| QASN18A085S QAASN18A085S | 85 mm | 22218 | 112 4.41 | 212 8.35 | 130 5.12 | 279 10.98 | 292 11.50 | 345 13.58 | 86 3.39 | 39 1.54 | 20 3/4 | 37 1.46 | 109 4.29 | 66 2.60 | 6 0.24 | 23 0.91 | 102 4.02 | 132 5.20 | 25.5 56 |
| QASN18A307S QAASN18A307S | 3 7/16 in. | 22218 | 112 4.41 | 212 8.35 | 130 5.12 | 290 11.42 | 327 12.87 | 380 14.96 | 86 3.39 | 39 1.54 | 24 7/8 | 37 1.46 | 109 4.29 | 66 2.60 | 6 0.24 | 23 0.91 | 102 4.02 | 132 5.20 | 25.5 56 |
| QASN18A308S QAASN18A308S | 3 1/2 in. | | | | | | | | | | | | | | | | | | |
| QASN18A090S QAASN18A090S | 90 mm | | | | | | | | | | | | | | | | | | |
| QASN20A315S QAASN20A315S | 3 15/16 in. | 22220 | 125 4.92 | 241 9.49 | 152 5.98 | 319 12.56 | 366 14.41 | 410 16.14 | 101 3.98 | 50 1.97 | 24 7/8 | 41 1.61 | 126 4.96 | 75 2.95 | 10 0.39 | 25 0.98 | 117 4.61 | 150 5.91 | 35.9 79 |
| QASN20A400S QAASN20A400S | 4 in. | | | | | | | | | | | | | | | | | | |
| QASN20A100S QAASN20A100S | 100 mm | | | | | | | | | | | | | | | | | | |
| QAASN22A110S | 110 mm | 22222 | 140 5.51 | 255 10.04 | 160 6.30 | 332 13.07 | 365 14.37 | 410 16.14 | 105 4.13 | 39 1.54 | 24 7/8 | - | 133 5.24 | 80 3.15 | - | 28 1.10 | - | 160 6.30 | 35.9 79 |
| QAASN22A407S | 4 7/16 in. | 22222 | 150 5.91 | 265 10.43 | 160 6.30 | 367 14.45 | 400 15.75 | 445 17.52 | 105 4.13 | 49 1.93 | 24 7/8 | - | 133 5.24 | 80 3.15 | - | 28 1.10 | - | 160 6.30 | 40.0 88 |
| QAASN22A408S | 4 1/2 in. | | | | | | | | | | | | | | | | | | |
| QAASN22A115S | 115 mm | | | | | | | | | | | | | | | | | | |
| QAASN26A125S | 125 mm | 22226 | 150 5.91 | 282 11.10 | 175 6.89 | 402 15.83 | 435 17.13 | 500 19.69 | 113 4.45 | 49 1.93 | 30 1 1/4 | - | 151 5.94 | 94 3.70 | - | 38 1.50 | - | 188 7.40 | 40.0 88 |
| QAASN26A415S | 4 15/16 in. | | | | | | | | | | | | | | | | | | |
| QAASN26A500S | 5 in. | | | | | | | | | | | | | | | | | | |
| QAASN26A130S | 130 mm | | | | | | | | | | | | | | | | | | |

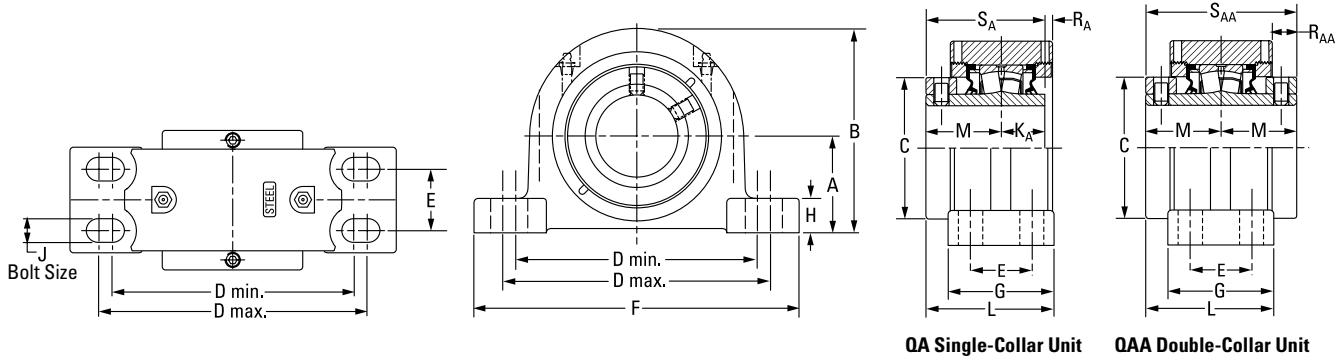
⁽¹⁾Bearing part numbers use QA to designate single-collar units (use SA and RA dimensions) and QAA to designate double-collar units (use SAA and RAA dimensions).

QAAPXT 5000 SERIES TWO-BOLT PILLOW BLOCKS



| Bearing Part No. | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | F | G | H | J | L | M | R | S | Wt. |
|------------------|--------------|-------------|---------------------|----------------------|----------------------|----------------------|-----------------------|-----------------------|---------------------|---------------------|------------------|---------------------|---------------------|---------------------|----------------------|-------------------|
| | 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. | mm in. | kg lbs. |
| QAAPXT13A060S | 60 mm | 22213 | 76.2 3.00 | 153.7 6.05 | 96.8 3.81 | 194.6 7.66 | 223.0 8.78 | 285.8 11.25 | 73.7 2.90 | 35.1 1.38 | 20 3/4 | 91.4 3.60 | 54.6 2.15 | 17.8 0.70 | 109.2 4.30 | 10.0 22 |
| QAAPXT13A207S | 2 7/16 in. | | | | | | | | | | | | | | | |
| QAAPXT13A208S | 2 1/2 in. | | | | | | | | | | | | | | | |
| QAAPXT13A065S | 65 mm | | | | | | | | | | | | | | | |
| QAAPXT15A211S | 2 11/16 in. | 22215 | 88.9 3.50 | 173.7 6.84 | 109.0 4.29 | 230.1 9.06 | 265.2 10.44 | 330.2 13.00 | 75.7 2.98 | 35.1 1.38 | 24 7/8 | 98.0 3.86 | 60.2 2.37 | 22.4 0.88 | 120.4 4.74 | 12.7 28 |
| QAAPXT15A212S | 2 3/4 in. | | | | | | | | | | | | | | | |
| QAAPXT15A070S | 70 mm | | | | | | | | | | | | | | | |
| QAAPXT15A215S | 2 15/16 in. | | | | | | | | | | | | | | | |
| QAAPXT15A300S | 3 in. | | | | | | | | | | | | | | | |
| QAAPXT15A075S | 75 mm | | | | | | | | | | | | | | | |

QAPF AND QAAPF FOUR-BOLT PILLOW BLOCKS

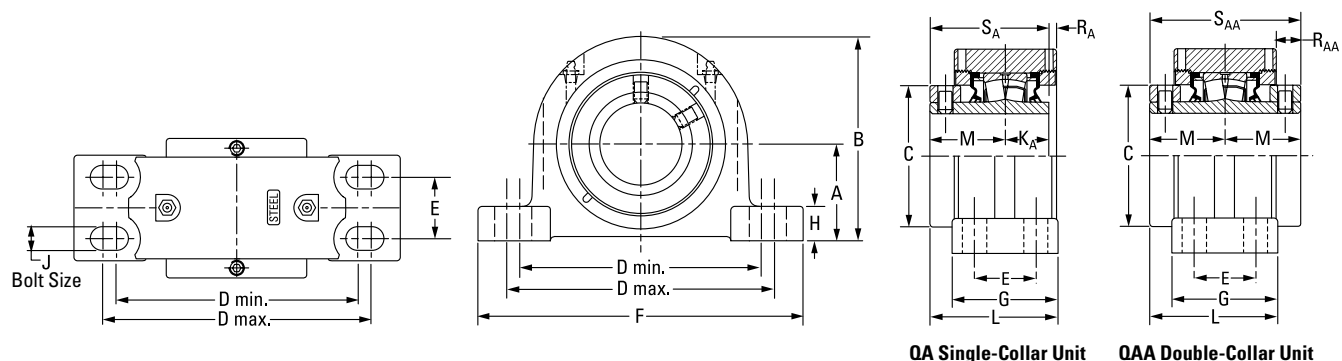


| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | E | F | G | H | J | K _A | L | M | R _A | R _{AA} | S _A | S _{AA} | Wt. | |
|---------------------------------|-------------|-------------|--------------|---------------|---------------|---------------|----------------|--------------|----------------|--------------|--------------|-----------|----------------|---------------|--------------|----------------|-----------------|----------------|-----------------|------------|------------|
| | 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. | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. | kg lbs. |
| QAPF13A060S QAAPF13A060S | 60 mm | 22213 | 69.9 2.75 | 147.3 5.80 | 96.8 3.81 | 174.8 6.88 | 193.8 7.63 | 44.5 1.75 | 235.0 9.25 | 76.2 3.00 | 24.9 0.98 | 16 5/8 | 31.5 1.24 | 92.7 3.65 | 54.6 2.15 | 5.3 0.21 | 17.8 0.70 | 86.1 3.39 | 109.2 4.30 | 9.1 20 | |
| QAPF13A207S QAAPF13A207S | 2 7/16 in. | | | | | | | | | | | | | | | | | | | | |
| QAPF13A208S QAAPF13A208S | 2 1/2 in. | | | | | | | | | | | | | | | | | | | | |
| QAPF13A065S QAAPF13A065S | 65 mm | | | | | | | | | | | | | | | | | | | | |
| QAPF15A211S QAAPF15A211S | 2 11/16 in. | 22215 | 82.6 3.25 | 167.6 6.60 | 109.0 4.29 | 193.0 7.60 | 231.1 9.10 | 47.8 1.88 | 265.2 10.44 | 79.5 3.13 | 32.8 1.29 | 16 5/8 | 31.8 1.25 | 100.1 3.94 | 60.2 2.37 | 6.1 0.24 | 22.4 0.88 | 91.9 3.62 | 120.4 4.74 | 12.2 27 | |
| QAPF15A212S QAAPF15A212S | 2 3/4 in. | | | | | | | | | | | | | | | | | | | | |
| QAPF15A070S QAAPF15A070S | 70 mm | | | | | | | | | | | | | | | | | | | | |
| QAPF15A215S QAAPF15A215S | 2 15/16 in. | | | | | | | | | | | | | | | | | | | | |
| QAPF15A300S QAAPF15A300S | 3 in. | 22218 | 95.3 3.75 | 195.3 7.69 | 130.3 5.13 | 225.6 8.88 | 276.4 10.88 | 50.8 2.00 | 312.4 12.30 | 95.3 3.75 | 39.6 1.56 | 20 3/4 | 36.6 1.44 | 113.5 4.47 | 65.8 2.59 | 7.9 0.31 | 21.3 0.84 | 102.4 4.03 | 131.6 5.18 | 22.2 49 | |
| QAPF15A075S QAAPF15A075S | 75 mm | | | | | | | | | | | | | | | | | | | | |
| QAPF18A303S QAAPF18A303S | 3 3/16 in. | | | | | | | | | | | | | | | | | | | | |
| QAPF18A304S QAAPF18A304S | 3 1/4 in. | | | | | | | | | | | | | | | | | | | | |
| QAPF18A080S QAAPF18A080S | 80 mm | 22218 | 95.3 3.75 | 195.3 7.69 | 130.3 5.13 | 225.6 8.88 | 276.4 10.88 | 50.8 2.00 | 312.4 12.30 | 95.3 3.75 | 39.6 1.56 | 20 3/4 | 36.6 1.44 | 113.5 4.47 | 65.8 2.59 | 7.9 0.31 | 21.3 0.84 | 102.4 4.03 | 131.6 5.18 | 22.2 49 | |
| QAPF18A085S QAAPF18A085S | 85 mm | | | | | | | | | | | | | | | | | | | | |
| QAPF18A307S QAAPF18A307S | 3 7/16 in. | | | | | | | | | | | | | | | | | | | | |
| QAPF18A308S QAAPF18A308S | 3 1/2 in. | | | | | | | | | | | | | | | | | | | | |
| QAPF18A090S QAAPF18A090S | 90 mm | | | | | | | | | | | | | | | | | | | | |

⁽¹⁾Bearing part numbers use QA to designate single-collar units (use S_A and R_A dimensions) and QAA to designate double-collar units (use S_{AA} and R_{AA} dimensions).

Continued on next page.

QAPF AND QAAPF FOUR-BOLT PILLOW BLOCKS

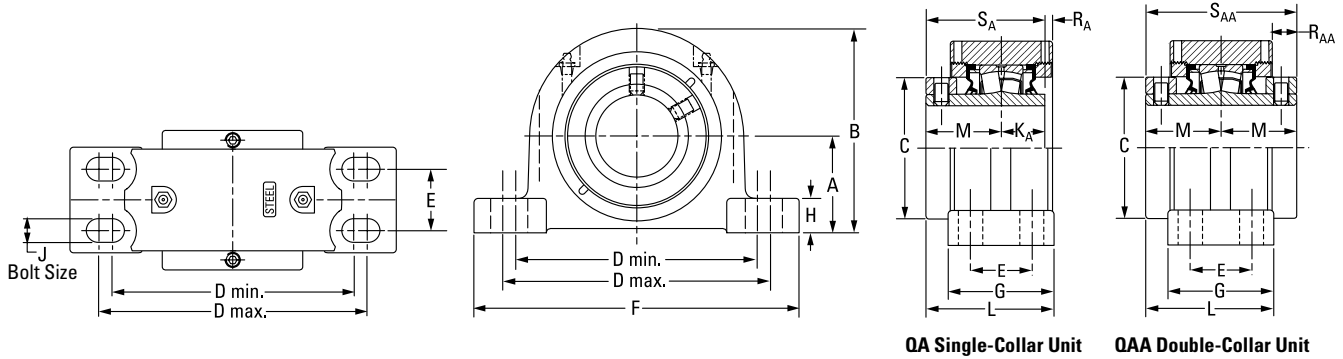


Continued from previous page.

| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | E | F | G | H | J | K _A | L | M | R _A | R _{AA} | S _A | S _{AA} | Wt. |
|---------------------------------|-------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------|--------|--------|----------------|-----------------|----------------|-----------------|--------|
| | | | 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. | mm in. | mm in. | mm in. | mm in. | mm in. |
| QAPF20A315S QAAPF20A315S | 3 15/16 in. | 22220 | 108.0 | 223.0 | 152.4 | 276.4 | 339.9 | 57.2 | 378.0 | 109.5 | 35.6 | 20 | 41.4 | 130.3 | 75.4 | 8.9 | 25.1 | 116.6 | 150.9 | 30.4 |
| QAPF20A400S QAAPF20A400S | 4 in. | | 4.25 | 8.78 | 6.00 | 10.88 | 13.38 | 2.25 | 14.88 | 4.31 | 1.40 | 3/4 | 1.63 | 5.13 | 2.97 | 0.35 | 0.99 | 4.59 | 5.94 | 67 |
| QAPF20A100S QAAPF20A100S | 100 mm | | | | | | | | | | | | | | | | | | | |
| QAAPF22A110S | 110 mm | 22222 | 120.7 | 233.4 | 160.0 | 301.8 | 368.3 | 63.5 | 409.7 | 120.7 | 40.1 | 20 | - | 140.0 | 79.5 | - | 28.7 | - | 158.8 | 37.2 |
| QAAPF22A407S | 4 7/16 in. | | 4.75 | 9.19 | 6.30 | 11.88 | 14.50 | 2.50 | 16.13 | 4.75 | 1.58 | 3/4 | - | 5.51 | 3.13 | - | 1.13 | - | 6.25 | 82 |
| QAAPF22A408S | 4 1/2 in. | | | | | | | | | | | | | | | | | | | |
| QAAPF22A115S | 115 mm | 22226 | 139.7 | 279.7 | 175.0 | 349.3 | 403.4 | 69.9 | 444.5 | 128.0 | 39.1 | 24 | - | 158.5 | 94.5 | - | 36.8 | - | 189.0 | 60.8 |
| QAAPF26A125S | 125 mm | | 5.50 | 11.01 | 6.89 | 13.75 | 15.88 | 2.75 | 17.50 | 5.04 | 1.54 | 7/8 | - | 6.24 | 3.72 | - | 1.45 | - | 7.44 | 134 |
| QAAPF26A415S | 4 15/16 in. | | | | | | | | | | | | | | | | | | | |
| QAAPF26A500S | 5 in. | | | | | | | | | | | | | | | | | | | |
| QAAPF26A130S | 130 mm | | | | | | | | | | | | | | | | | | | |

⁽¹⁾Bearing part numbers use QA to designate single-collar units (use S_A and R_A dimensions) and QAA to designate double-collar units (use S_{AA} and R_{AA} dimensions).

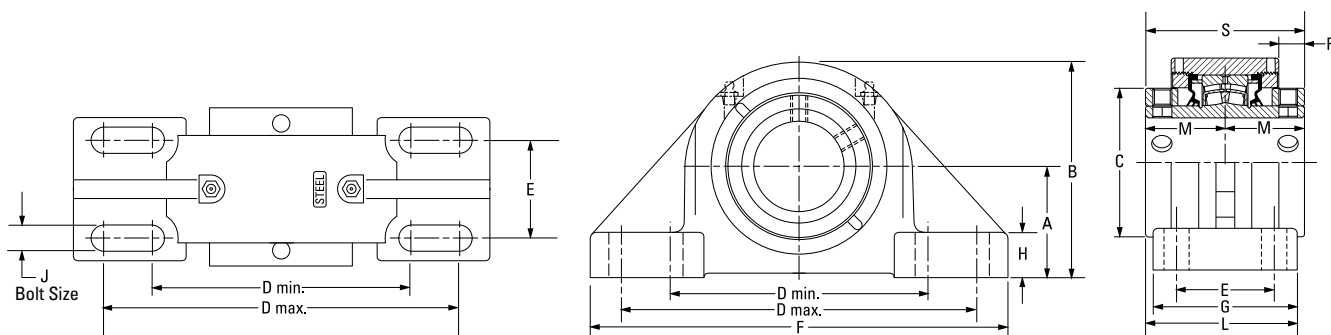
QAPR AND QAAPR FOUR-BOLT PILLOW BLOCKS



| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | E | F | G | H | J | K _A | L | M | R _A | R _{AA} | S _A | S _{AA} | Wt. |
|---------------------------------|--------------|-------------|--------------|---------------|---------------|---------------|----------------|--------------|----------------|--------------|--------------|-----------|----------------|---------------|--------------|----------------|-----------------|----------------|-----------------|------------|
| | | | 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. | mm in. | mm in. | mm in. | mm in. | mm in. |
| QAPR13A060S QAAPR13A060S | 60 mm | 22213 | 69.9 2.75 | 147.3 5.80 | 96.8 3.81 | 181.1 7.13 | 222.3 8.75 | 47.8 1.88 | 260.4 10.25 | 82.6 3.25 | 24.9 0.98 | 16 5/8 | 31.5 1.24 | 95.8 3.77 | 54.6 2.15 | 5.3 0.21 | 17.8 0.70 | 86.1 3.39 | 109.2 4.30 | 9.1 20 |
| QAPR13A207S QAAPR13A207S | 2 7/16 in. | | | | | | | | | | | | | | | | | | | |
| QAPR13A208S QAAPR13A208S | 2 1/2 in. | | | | | | | | | | | | | | | | | | | |
| QAPR13A065S QAAPR13A065S | 65 mm | | | | | | | | | | | | | | | | | | | |
| QAPR15A211S QAAPR15A211S | 2 11/16 in. | 22215 | 79.5 3.13 | 164.3 6.47 | 109.0 4.29 | 203.2 8.00 | 243.8 9.60 | 54.1 2.13 | 275.1 10.83 | 85.9 3.38 | 29.5 1.16 | 16 5/8 | 31.8 1.25 | 102.1 4.02 | 60.2 2.37 | 6.1 0.24 | 22.4 0.88 | 91.9 3.62 | 120.4 4.74 | 12.2 27 |
| QAPR15A212S QAAPR15A212S | 2 3/4 in. | | | | | | | | | | | | | | | | | | | |
| QAPR15A070S QAAPR15A070S | 70 mm | | | | | | | | | | | | | | | | | | | |
| QAPR15A215S QAAPR15A215S | 2 15/16 in. | | | | | | | | | | | | | | | | | | | |
| QAPR15A300S QAAPR15A300S | 3 in. | 22218 | 95.3 3.75 | 195.3 7.69 | 130.3 5.13 | 235.0 9.25 | 285.8 11.25 | 60.5 2.38 | 346.2 13.63 | 95.3 3.75 | 39.6 1.56 | 20 3/4 | 36.6 1.44 | 113.5 4.47 | 65.8 2.59 | 7.9 0.31 | 21.3 0.84 | 102.4 4.03 | 131.6 5.18 | 22.2 49 |
| QAPR15A075S QAAPR15A075S | 75 mm | | | | | | | | | | | | | | | | | | | |
| QAPR18A303S QAAPR18A303S | 3 3/16 in. | | | | | | | | | | | | | | | | | | | |
| QAPR18A304S QAAPR18A304S | 3 1/4 in. | | | | | | | | | | | | | | | | | | | |
| QAPR18A080S QAAPR18A080S | 80 mm | 22218 | 95.3 3.75 | 195.3 7.69 | 130.3 5.13 | 235.0 9.25 | 285.8 11.25 | 60.5 2.38 | 346.2 13.63 | 95.3 3.75 | 39.6 1.56 | 20 3/4 | 36.6 1.44 | 113.5 4.47 | 65.8 2.59 | 7.9 0.31 | 21.3 0.84 | 102.4 4.03 | 131.6 5.18 | 22.2 49 |
| QAPR18A085S QAAPR18A085S | 85 mm | | | | | | | | | | | | | | | | | | | |
| QAPR18A307S QAAPR18A307S | 3 7/16 in. | | | | | | | | | | | | | | | | | | | |
| QAPR18A308S QAAPR18A308S | 3 1/2 in. | | | | | | | | | | | | | | | | | | | |
| QAPR18A090S QAAPR18A090S | 90 mm | 22218 | 95.3 3.75 | 195.3 7.69 | 130.3 5.13 | 235.0 9.25 | 285.8 11.25 | 60.5 2.38 | 346.2 13.63 | 95.3 3.75 | 39.6 1.56 | 20 3/4 | 36.6 1.44 | 113.5 4.47 | 65.8 2.59 | 7.9 0.31 | 21.3 0.84 | 102.4 4.03 | 131.6 5.18 | 22.2 49 |
| QAPR18A090S QAAPR18A090S | 90 mm | | | | | | | | | | | | | | | | | | | |

⁽¹⁾Bearing part numbers use QA to designate single-collar units (use S_A and R_A dimensions) and QAA to designate double-collar units (use S_{AA} and R_{AA} dimensions).

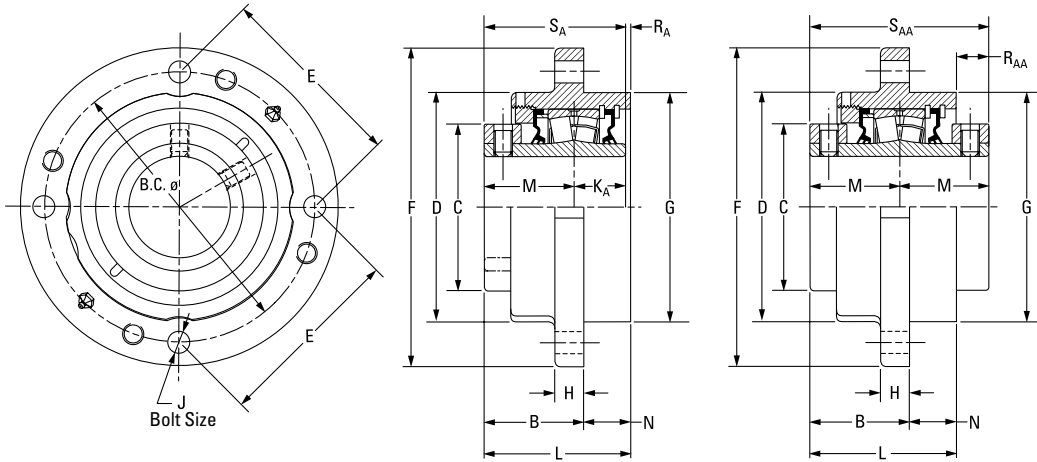
QAAPX 5000 SERIES FOUR-BOLT PILLOW BLOCKS



| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | E | F | G | H | J | L | M | R | S | Wt. |
|---------------------------------|---------------|-------------|----------------------|-----------------------|----------------------|-----------------------|-----------------------|----------------------|-----------------------|----------------------|---------------------|----------------------|----------------------|---------------------|---------------------|----------------------|--------------------|
| | | | 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. | mm in. | mm in. |
| QAAPX13A060S | 60 mm | 22213 | 76.2 3.00 | 153.7 6.05 | 96.8 3.81 | 176.3 6.94 | 242.8 9.56 | 66.8 2.63 | 285.8 11.25 | 98.6 3.88 | 31.0 1.22 | 16 % | 103.9 4.09 | 54.6 2.15 | 17.8 0.70 | 109.2 4.30 | 13.2 29 |
| QAAPX13A207S | 2 7/16 in. | | | | | | | | | | | | | | | | |
| QAAPX13A208S | 2 1/2 in. | | | | | | | | | | | | | | | | |
| QAAPX13A065S | 65 mm | | | | | | | | | | | | | | | | |
| QAAPX15A211S | 2 11/16 in. | 22215 | 88.9 3.50 | 173.5 6.83 | 109.0 4.29 | 230.1 9.06 | 265.2 10.44 | 69.9 2.75 | 330.2 13.00 | 108.0 4.25 | 39.1 1.54 | 20 3/4 | 114.3 4.50 | 60.2 2.37 | 21.3 0.84 | 120.4 4.74 | 20.4 45 |
| QAAPX15A212S | 2 3/4 in. | | | | | | | | | | | | | | | | |
| QAAPX15A070S | 70 mm | | | | | | | | | | | | | | | | |
| QAAPX15A215S | 2 15/16 in. | | | | | | | | | | | | | | | | |
| QAAPX15A300S | 3 in. | 22218 | 101.6 4.00 | 201.2 7.92 | 130.3 5.13 | 274.6 10.81 | 309.6 12.19 | 76.2 3.00 | 381.0 15.00 | 120.7 4.75 | 38.1 1.50 | 20 3/4 | 126.2 4.97 | 65.8 2.59 | 21.3 0.84 | 131.6 5.18 | 29.0 64 |
| QAAPX15A075S | 75 mm | | | | | | | | | | | | | | | | |
| QAAPX18A303S | 3 3/16 in. | | | | | | | | | | | | | | | | |
| QAAPX18A304S | 3 1/4 in. | | | | | | | | | | | | | | | | |
| QAAPX18A080S | 80 mm | 22220 | 127.0 5.00 | 239.8 9.44 | 152.4 6.00 | 317.5 12.50 | 355.6 14.00 | 88.9 3.50 | 425.5 16.75 | 139.7 5.50 | 41.4 1.63 | 24 % | 145.0 5.71 | 75.2 2.96 | 25.4 1.00 | 150.4 5.92 | 44.9 99 |
| QAAPX18A085S | 85 mm | | | | | | | | | | | | | | | | |
| QAAPX18A307S | 3 3/8 in. | | | | | | | | | | | | | | | | |
| QAAPX18A308S | 3 1/2 in. | | | | | | | | | | | | | | | | |
| QAAPX18A090S | 90 mm | 22222 | 146.1 5.75 | 273.8 10.78 | 159.8 6.29 | 354.1 13.94 | 395.2 15.56 | 101.6 4.00 | 469.9 18.50 | 158.8 6.25 | 45.7 1.80 | 24 1 | 158.8 6.25 | 79.5 3.13 | 28.7 1.13 | 158.8 6.25 | 63.0 139 |
| QAAPX20A315S | 3 15/16 in. | | | | | | | | | | | | | | | | |
| QAAPX20A400S | 4 in. | | | | | | | | | | | | | | | | |
| QAAPX20A100S | 100 mm | | | | | | | | | | | | | | | | |
| QAAPX22A110S | 110 mm | 22226 | 155.7 6.13 | 283.2 11.15 | 174.8 6.88 | 387.4 15.25 | 425.5 16.75 | 108.0 4.25 | 514.4 20.25 | 171.5 6.75 | 50.8 2.00 | 24.0 1 1/8 | 180.3 7.10 | 94.5 3.72 | 37.3 1.47 | 189.0 7.44 | 67.6 149 |
| QAAPX22A407S | 4 7/16 in. | | | | | | | | | | | | | | | | |
| QAAPX22A408S | 4 1/2 in. | | | | | | | | | | | | | | | | |
| QAAPX22A115S | 115 mm | | | | | | | | | | | | | | | | |
| QAAPX26A125S | 125 mm | 22226 | 155.7 6.13 | 283.2 11.15 | 174.8 6.88 | 387.4 15.25 | 425.5 16.75 | 108.0 4.25 | 514.4 20.25 | 171.5 6.75 | 50.8 2.00 | 24.0 1 1/8 | 180.3 7.10 | 94.5 3.72 | 37.3 1.47 | 189.0 7.44 | 67.6 149 |
| QAAPX26A415S | 4 15/16 in. | | | | | | | | | | | | | | | | |
| QAAPX26A500S | 5 in. | | | | | | | | | | | | | | | | |
| QAAPX26A130S | 130 mm | | | | | | | | | | | | | | | | |

⁽¹⁾Bearing part numbers use QA to designate single-collar units (use S_A and R_A dimensions) and QAA to designate double-collar units (use S_{AA} and R_{AA} dimensions).

QAC AND QAAC PILOTED FLANGE CARTRIDGES



| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | B FIX | B EXP | B.C. | C | D | E | F | G ⁽²⁾ | H | J | K _A | L FIX | L EXP | M | N | R _A | R _{AA} | S _A | S _{AA} | Wt. | |
|---------------------------------|--------------|-------------|--------------|--------------|---------------|--------------|---------------|---------------|---------------|------------------|--------------|------------|----------------|--------------|--------------|--------------|--------------|----------------|-----------------|----------------|-----------------|-----------|------------|
| | 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. | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. | kg lbs. |
| QAC08A035S | 35 mm | 22208 | 49.8 1.96 | 51.8 2.04 | 111.3 4.38 | 60.5 2.38 | 92.2 3.63 | 78.5 3.09 | 133.4 5.25 | 92.1 3.625 | 12.7 0.50 | 10 7/16 | 25.4 1.00 | 73.7 2.90 | 75.7 2.98 | 44.5 1.75 | 23.9 0.94 | 3.8 0.15 | - | 69.9 2.75 | - | - | 3.6 8 |
| QAC08A107S | 1 7/8 in. | | | | | | | | | | | | | | | | | | | | | | |
| QAC08A108S | 1 1/2 in. | | | | | | | | | | | | | | | | | | | | | | |
| QAC09A040S | 40 mm | 22209 | 54.6 2.15 | 56.6 2.23 | 130.3 5.13 | 66.8 2.63 | 111.3 4.38 | 91.9 3.62 | 155.7 6.13 | 108.0 4.250 | 12.7 0.50 | 10 7/16 | 25.4 1.00 | 77.0 3.03 | 78.2 3.08 | 47.8 1.88 | 22.4 0.88 | 3.8 0.15 | - | 73.2 2.88 | - | - | 4.1 9 |
| QAC09A111S | 1 1/4 in. | | | | | | | | | | | | | | | | | | | | | | |
| QAC09A112S | 1 3/4 in. | | | | | | | | | | | | | | | | | | | | | | |
| QAC09A045S | 45 mm | 22210 | 50.5 1.99 | 52.6 2.07 | 136.7 5.38 | 73.2 2.88 | 113.5 4.47 | 96.5 3.80 | 162.1 6.38 | 114.3 4.500 | 16.0 0.63 | 10 7/16 | 25.4 1.00 | 77.5 3.05 | 79.5 3.13 | 47.5 1.87 | 26.9 1.06 | 4.6 0.18 | 18.5 0.73 | 72.9 2.87 | 95.3 3.75 | 4.5 10 | |
| QAC10A115S QAAC10A115S | 1 1/2 in. | | | | | | | | | | | | | | | | | | | | | | |
| QAC10A200S QAAC10A200S | 2 in. | | | | | | | | | | | | | | | | | | | | | | |
| QAC10A050S QAAC10A050S | 50 mm | 22211 | 54.4 2.14 | 56.4 2.22 | 152.4 6.00 | 82.6 3.25 | 127.0 5.00 | 107.7 4.24 | 185.4 7.30 | 127.0 5.000 | 14.7 0.58 | 12 1/2 | 28.7 1.13 | 83.1 3.27 | 85.1 3.35 | 50.8 2.00 | 28.7 1.13 | 3.6 0.14 | 18.5 0.73 | 79.5 3.13 | 101.6 4.00 | 5.9 13 | |
| QAC11A203S QAAC11A203S | 2 3/8 in. | | | | | | | | | | | | | | | | | | | | | | |
| QAC11A204S QAAC11A204S | 2 1/4 in. | | | | | | | | | | | | | | | | | | | | | | |
| QAC11A055S QAAC11A055S | 55 mm | 22213 | 60.5 2.38 | 62.5 2.46 | 165.1 6.50 | 96.8 3.81 | 139.7 5.50 | 116.8 4.60 | 193.8 7.63 | 139.7 5.500 | 17.5 0.69 | 12 1/2 | 31.5 1.24 | 88.9 3.50 | 90.9 3.58 | 54.6 2.15 | 28.7 1.13 | 3.0 0.12 | 20.3 0.80 | 86.1 3.39 | 109.2 4.30 | 7.3 16 | |
| QAC13A060S QAAC13A060S | 60 mm | | | | | | | | | | | | | | | | | | | | | | |
| QAC13A207S QAAC13A207S | 2 7/8 in. | | | | | | | | | | | | | | | | | | | | | | |
| QAC13A208S QAAC13A208S | 2 1/2 in. | 22213 | 60.5 2.38 | 62.5 2.46 | 165.1 6.50 | 96.8 3.81 | 139.7 5.50 | 116.8 4.60 | 193.8 7.63 | 139.7 5.500 | 17.5 0.69 | 12 1/2 | 31.5 1.24 | 88.9 3.50 | 90.9 3.58 | 54.6 2.15 | 28.7 1.13 | 3.0 0.12 | 20.3 0.80 | 86.1 3.39 | 109.2 4.30 | 7.3 16 | |
| QAC13A065S QAAC13A065S | 65 mm | | | | | | | | | | | | | | | | | | | | | | |

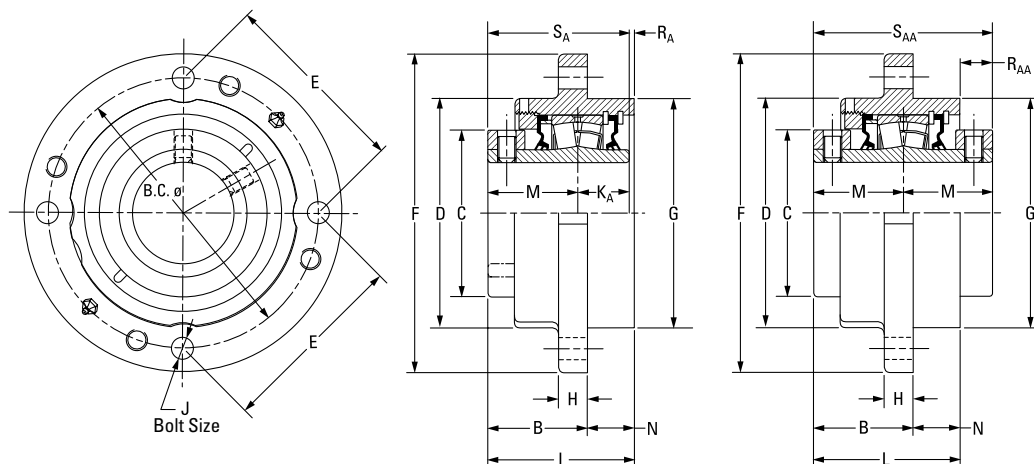
⁽¹⁾Bearing part numbers use QA to designate single-collar units (use S_A and R_A dimensions) and QAA to designate double-collar units (use S_{AA} and R_{AA} dimensions).

⁽²⁾Pilot tolerance: +0/-0.051 mm (+0/-0.002 in.).

⁽³⁾Six-bolt housing.

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QAC AND QAAC PILOTED FLANGE CARTRIDGES



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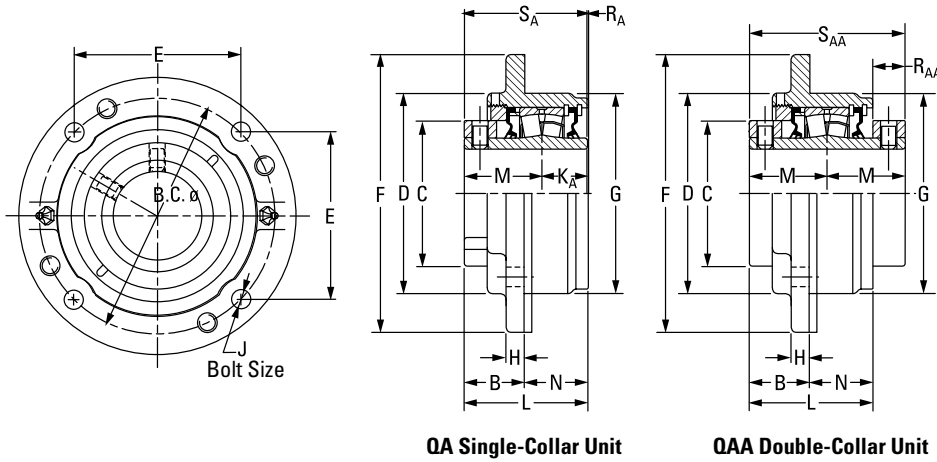
| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | B FIX | B EXP | B.C. | C | D | E | F | G ⁽²⁾ | H | J | K _A | L FIX | L EXP | M | N | R _A | R _{AA} | S _A | S _{AA} | Wt. |
|---------------------------------|--------------------------------------|-------------|--------------|--------------|-------------------------------|---------------|----------------|------------------------------|----------------|------------------|--------------|--------------------------|----------------|---------------|---------------|--------------|--------------|----------------|-----------------|----------------|-----------------|------------|
| | 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. | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. | kg lbs. |
| QAC15A211S QAAC15A211S | 2 1 ¹ / ₁₆ in. | 22215 | 62.5 2.46 | 64.5 2.54 | 190.5 7.50 | 109.0 4.29 | 162.1 6.38 | 134.6 5.30 | 222.3 8.75 | 161.9 6.375 | 20.6 0.81 | 16 5/8 | 31.8 1.25 | 94.2 3.71 | 96.3 3.79 | 60.2 2.37 | 31.8 1.25 | 2.3 0.09 | 21.6 0.85 | 91.9 3.62 | 120.4 4.74 | 10.0 22 |
| QAC15A212S QAAC15A212S | 2 3/4 in. | | | | | | | | | | | | | | | | | | | | | |
| QAC15A070S QAAC15A070S | 70 mm | | | | | | | | | | | | | | | | | | | | | |
| QAC15A215S QAAC15A215S | 2 15/16 in. | | | | | | | | | | | | | | | | | | | | | |
| QAC15A300S QAAC15A300S | 3 in. | | | | | | | | | | | | | | | | | | | | | |
| QAC15A075S QAAC15A075S | 75 mm | | | | | | | | | | | | | | | | | | | | | |
| QAC18A303S QAAC18A303S | 3 3/16 in. | 22218 | 73.2 2.88 | 75.2 2.96 | 219.2 8.63 | 130.3 5.13 | 187.5 7.38 | 154.9 6.10 | 262.6 10.34 | 187.3 7.375 | 25.4 1.00 | 20 3/4 | 36.6 1.44 | 106.4 4.19 | 108.5 4.27 | 65.8 2.59 | 33.3 1.31 | 4.1 0.16 | 25.1 0.99 | 102.4 4.03 | 131.6 5.18 | 14.5 32 |
| QAC18A304S QAAC18A304S | 3 1/4 in. | | | | | | | | | | | | | | | | | | | | | |
| QAC18A080S QAAC18A080S | 80 mm | | | | | | | | | | | | | | | | | | | | | |
| QAC18A085S QAAC18A085S | 85 mm | | | | | | | | | | | | | | | | | | | | | |
| QAC18A307S QAAC18A307S | 3 7/16 in. | | | | | | | | | | | | | | | | | | | | | |
| QAC18A308S QAAC18A308S | 3 1/2 in. | | | | | | | | | | | | | | | | | | | | | |
| QAC18A090S QAAC18A090S | 90 mm | | | | | | | | | | | | | | | | | | | | | |
| QAC20A315S QAAC20A315S | 3 15/16 in. | 22220 | 72.1 2.84 | 74.2 2.92 | 238.3 9.38 | 152.4 6.00 | 206.5 8.13 | 168.4 6.63 | 276.4 10.88 | 206.4 8.125 | 25.4 1.00 | 20 3/4 | 41.4 1.63 | 126.0 4.96 | 128.0 5.04 | 75.4 2.97 | 54.1 2.13 | 9.4 0.37 | 24.9 0.98 | 116.6 4.59 | 150.9 5.94 | 19.5 43 |
| QAC20A400S QAAC20A400S | 4 in. | | | | | | | | | | | | | | | | | | | | | |
| QAC20A100S QAAC20A100S | 100 mm | | | | | | | | | | | | | | | | | | | | | |
| QAAC22A110S | 110 mm | | | | | | | | | | | | | | | | | | | | | |
| QAAC22A407S ⁽³⁾ | 4 7/16 in. | 22222 | 78.0 3.07 | 80.0 3.15 | 298.5 11.75 ⁽³⁾ | 160.0 6.30 | 254.0 10.00 | 149.4 5.88 ⁽³⁾ | 342.9 13.50 | 260.4 10.250 | 25.4 1.00 | 20 3/4 ⁽³⁾ | - | 126.2 4.97 | 128.3 5.05 | 79.5 3.13 | 48.3 1.90 | - | 32.8 1.29 | - | 158.8 6.25 | 32.7 72 |
| QAAC22A408S ⁽³⁾ | 4 1/2 in. | | | | | | | | | | | | | | | | | | | | | |
| QAAC22A115S ⁽³⁾ | 115 mm | | | | | | | | | | | | | | | | | | | | | |

⁽¹⁾Bearing part numbers use QA to designate single-collar units (use S_A and R_A dimensions) and QAA to designate double-collar units (use S_{AA} and R_{AA} dimensions).

⁽²⁾Pilot tolerance: +0/-0.051 mm (+0/-0.002 in.).

⁽³⁾Six-bolt housing.

QACW AND QAACW PILOTED FLANGE CARTRIDGES



QA Single-Collar Unit

QAA Double-Collar Unit

| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | B FIX | B EXP | B.C. | C | D | E | F | G ⁽²⁾ | H | J | K _A | L FIX | L EXP | M | N | R _A | R _{AA} | S _A | S _{AA} | Wt. | |
|---------------------------------|-------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------------|-----------|-----------|----------------|-----------|-----------|-----------|-----------|----------------|-----------------|----------------|-----------------|-----------|------------|
| | 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. | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. | kg lbs. |
| QACW08A035S | 35 mm | 22208 | 38.9 | 40.9 | 111.3 | 60.5 | 92.2 | 78.5 | 133.4 | 92.1 | 12.7 | 10 | 25.4 | 73.7 | 75.7 | 44.5 | 35.1 | 3.8 | - | 69.9 | - | 3.6 | |
| QACW08A107S | 1 7/16 in. | | 1.53 | 1.61 | 4.38 | 2.38 | 3.63 | 3.09 | 5.25 | 3.625 | 0.50 | 7/16 | 1.00 | 2.90 | 2.98 | 1.75 | 1.38 | 0.15 | - | 2.75 | - | 8 | |
| QACW08A108S | 1 1/2 in. | | | | | | | | | | | | | | | | | | | | | | |
| QACW09A040S | 40 mm | 22209 | 38.9 | 40.1 | 130.3 | 66.8 | 111.3 | 91.9 | 155.7 | 108.0 | 10.2 | 10 | 25.4 | 77.0 | 78.2 | 47.8 | 38.1 | 4.1 | - | 73.2 | - | 4.1 | |
| QACW09A111S | 1 1/8 in. | | 1.53 | 1.58 | 5.13 | 2.63 | 4.38 | 3.62 | 6.13 | 4.250 | 0.40 | 7/16 | 1.00 | 3.03 | 3.08 | 1.88 | 1.5 | 0.16 | - | 2.88 | - | 9 | |
| QACW09A112S | 1 3/4 in. | | | | | | | | | | | | | | | | | | | | | | |
| QACW09A045S | 45 mm | 22210 | 35.3 | 37.3 | 136.7 | 73.2 | 113.5 | 96.5 | 162.1 | 114.3 | 9.7 | 10 | 25.4 | 73.4 | 75.4 | 47.5 | 38.1 | 0.5 | 22.6 | 72.9 | 95.3 | 4.5 | |
| QACW10A115S | 1 15/16 in. | | 1.39 | 1.47 | 5.38 | 2.88 | 4.47 | 3.80 | 6.38 | 4.500 | 0.38 | 7/16 | 1.00 | 2.89 | 2.97 | 1.87 | 1.50 | 0.02 | 0.89 | 2.87 | 3.75 | 10 | |
| QAACW10A115S | 2 in. | | | | | | | | | | | | | | | | | | | | | | |
| QACW10A050S | 50 mm | 22211 | 38.9 | 40.9 | 152.4 | 82.6 | 126.7 | 107.7 | 181.1 | 127.0 | 14.2 | 12 | 28.7 | 80.3 | 82.3 | 50.8 | 41.4 | 0.8 | 14.7 | 79.5 | 101.6 | 5.9 | |
| QACW11A203S | 2 3/16 in. | | 1.53 | 1.61 | 6.00 | 3.25 | 4.99 | 4.24 | 7.13 | 5.000 | 0.56 | 1/2 | 1.13 | 3.16 | 3.24 | 2.00 | 1.63 | 0.03 | 0.58 | 3.13 | 4.00 | 13 | |
| QAACW11A203S | 2 1/4 in. | | | | | | | | | | | | | | | | | | | | | | |
| QACW11A204S | 55 mm | 22213 | 47.2 | 49.3 | 165.1 | 96.8 | 139.7 | 116.8 | 193.8 | 139.7 | 12.7 | 12 | 31.5 | 90.2 | 92.2 | 54.6 | 42.9 | 4.3 | 19.1 | 86.1 | 109.2 | 7.3 | |
| QACW13A060S | 60 mm | | 1.86 | 1.94 | 6.50 | 3.81 | 5.50 | 4.60 | 7.63 | 5.500 | 0.50 | 1/2 | 1.24 | 3.55 | 3.63 | 2.15 | 1.69 | 0.17 | 0.75 | 3.39 | 4.30 | 16 | |
| QAACW13A060S | 2 7/16 in. | | | | | | | | | | | | | | | | | | | | | | |
| QACW13A207S | 65 mm | 22215 | 46.0 | 48.0 | 190.5 | 109.0 | 162.1 | 134.6 | 222.3 | 161.9 | 12.7 | 16 | 31.8 | 93.5 | 95.5 | 60.2 | 47.8 | 1.5 | 26.9 | 91.9 | 120.4 | 10.0 | |
| QACW13A208S | 2 1/2 in. | | 1.81 | 1.89 | 7.50 | 4.29 | 6.38 | 5.30 | 8.75 | 6.375 | 0.50 | 5/8 | 1.25 | 3.68 | 3.76 | 2.37 | 1.88 | 0.06 | 1.06 | 3.62 | 4.74 | 22 | |
| QAACW13A208S | 2 1/2 in. | | | | | | | | | | | | | | | | | | | | | | |
| QACW15A070S | 70 mm | 22215 | 46.0 | 48.0 | 190.5 | 109.0 | 162.1 | 134.6 | 222.3 | 161.9 | 12.7 | 16 | 31.8 | 93.5 | 95.5 | 60.2 | 47.8 | 1.5 | 26.9 | 91.9 | 120.4 | 10.0 | |
| QAACW15A070S | 2 1/4 in. | | 1.81 | 1.89 | 7.50 | 4.29 | 6.38 | 5.30 | 8.75 | 6.375 | 0.50 | 5/8 | 1.25 | 3.68 | 3.76 | 2.37 | 1.88 | 0.06 | 1.06 | 3.62 | 4.74 | 22 | |
| QACW15A215S | 2 1/8 in. | | | | | | | | | | | | | | | | | | | | | | |
| QAACW15A215S | 2 3/4 in. | | | | | | | | | | | | | | | | | | | | | | |
| QACW15A300S | 75 mm | 22215 | 46.0 | 48.0 | 190.5 | 109.0 | 162.1 | 134.6 | 222.3 | 161.9 | 12.7 | 16 | 31.8 | 93.5 | 95.5 | 60.2 | 47.8 | 1.5 | 26.9 | 91.9 | 120.4 | 10.0 | |
| QAACW15A300S | 3 in. | | 1.81 | 1.89 | 7.50 | 4.29 | 6.38 | 5.30 | 8.75 | 6.375 | 0.50 | 5/8 | 1.25 | 3.68 | 3.76 | 2.37 | 1.88 | 0.06 | 1.06 | 3.62 | 4.74 | 22 | |
| QACW15A075S | 75 mm | | | | | | | | | | | | | | | | | | | | | | |
| QAACW15A075S | 3 in. | | | | | | | | | | | | | | | | | | | | | | |

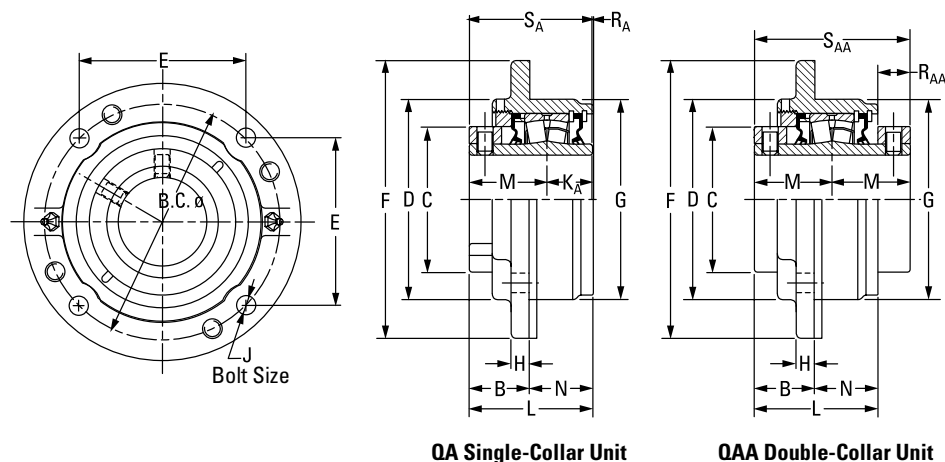
⁽¹⁾Bearing part numbers use QA to designate single-collar units (use S_A and R_A dimensions) and QAA to designate double-collar units (use S_{AA} and R_{AA} dimensions).

⁽²⁾Pilot tolerance: +0/-0.051 mm (+0/-0.002 in.).

⁽³⁾Six-bolt housing.

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QACW AND QAACW PILOTED FLANGE CARTRIDGES



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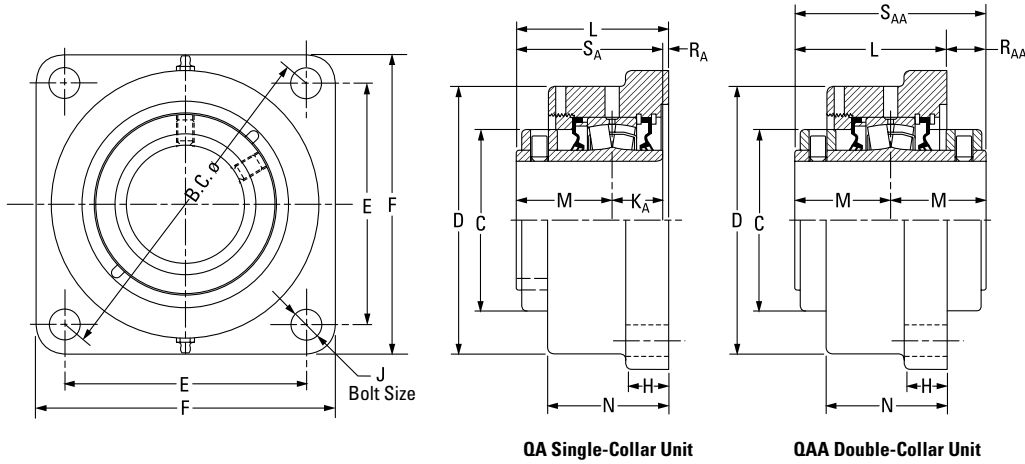
| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | B FIX | B EXP | B.C. | C | D | E | F | G ⁽²⁾ | H | J | K _A | L FIX | L EXP | M | N | R _A | R _{AA} | S _A | S _{AA} | Wt. | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|-------------|-------------|--------------|--------------|-------------------------------|---------------|----------------|------------------------------|----------------|------------------|--------------|--------------------------|----------------|---------------|---------------|--------------|--------------|----------------|-----------------|----------------|-----------------|-------------|------------|--------------|--------------|---------------|---------------|---------------|---------------|----------------|----------------|--------------|-----------|--------------|---------------|---------------|--------------|--------------|-------------|--------------|---------------|---------------|------------|
| | 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. | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. | kg lbs. | | | | | | | | | | | | | | | | | | | | |
| QACW18A303S QAACW18A303S | 3 3/16 in. | 22218 | 58.2 2.29 | 60.2 2.37 | 219.2 8.63 | 130.3 5.13 | 187.5 7.38 | 154.9 6.10 | 260.4 10.25 | 187.3 7.375 | 22.4 0.88 | 20 3/4 | 36.6 1.44 | 105.9 4.17 | 108.0 4.25 | 65.8 2.59 | 47.8 1.88 | 3.3 0.13 | 21.3 0.84 | 102.4 4.03 | 131.6 5.18 | 14.5 32 | | | | | | | | | | | | | | | | | | | | | |
| QACW18A304S QAACW18A304S | 3 1/4 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QACW18A080S QAACW18A080S | 80 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QACW18A085S QAACW18A085S | 85 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QACW18A307S QAACW18A307S | 3 7/16 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QACW18A308S QAACW18A308S | 3 1/2 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QACW18A090S QAACW18A090S | 90 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QACW20A315S QAACW20A315S | 3 15/16 in. | | | | | | | | | | | | | | | | | | | | | | 22220 | 65.5 2.58 | 67.6 2.66 | 238.3 9.38 | 152.4 6.00 | 206.5 8.13 | 168.4 6.63 | 276.4 10.88 | 206.4 8.125 | 25.4 1.00 | 20 3/4 | 41.4 1.63 | 123.4 4.86 | 125.5 4.94 | 75.4 2.97 | 57.9 2.28 | 6.9 0.27 | 30.2 1.19 | 116.6 4.59 | 150.9 5.94 | 19.5 43 |
| QACW20A400S QAACW20A400S | 4 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QACW20A100S QAACW20A100S | 100 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QAACW22A110S | 110 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QAACW22A407S ⁽³⁾ | 4 7/16 in. | 22222 | 62.0 2.44 | 64.0 2.52 | 298.5 11.75 ⁽³⁾ | 160.0 6.30 | 254.0 10.00 | 149.4 5.88 ⁽³⁾ | 342.9 13.50 | 260.4 10.250 | 25.4 1.00 | 20 3/4 ⁽³⁾ | - | 130.0 5.12 | 132.1 5.20 | 79.5 3.13 | 68.3 2.69 | - | 28.7 1.13 | - | 158.8 6.25 | 32.7 72 | | | | | | | | | | | | | | | | | | | | | |
| QAACW22A408S ⁽³⁾ | 4 1/2 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QAACW22A115S ⁽³⁾ | 115 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QAACW26A125S ⁽³⁾ | 125 mm | 22226 | 73.7 2.90 | 75.7 2.98 | 323.9 12.75 ⁽³⁾ | 175.0 6.89 | 266.7 10.50 | 162.1 6.38 ⁽³⁾ | 374.7 14.75 | 279.4 11.000 | 26.2 1.03 | 24 7/8 ⁽³⁾ | - | 153.2 6.03 | 155.2 6.11 | 94.5 3.72 | 78.0 3.07 | - | 35.8 1.41 | - | 189.0 7.44 | 46.3 102 | | | | | | | | | | | | | | | | | | | | | |
| QAACW26A415S ⁽³⁾ | 4 15/16 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QAACW26A500S ⁽³⁾ | 5 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QAACW26A130S ⁽³⁾ | 130 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

⁽¹⁾Bearing part numbers use QA to designate single-collar units (use S_A and R_A dimensions) and QAA to designate double-collar units (use S_{AA} and R_{AA} dimensions).

⁽²⁾Pilot tolerance: +0/-0.051 mm (+0/-0.002 in.).

⁽³⁾Six-bolt housing.

QAF AND QAAF SQUARE FLANGE BLOCKS

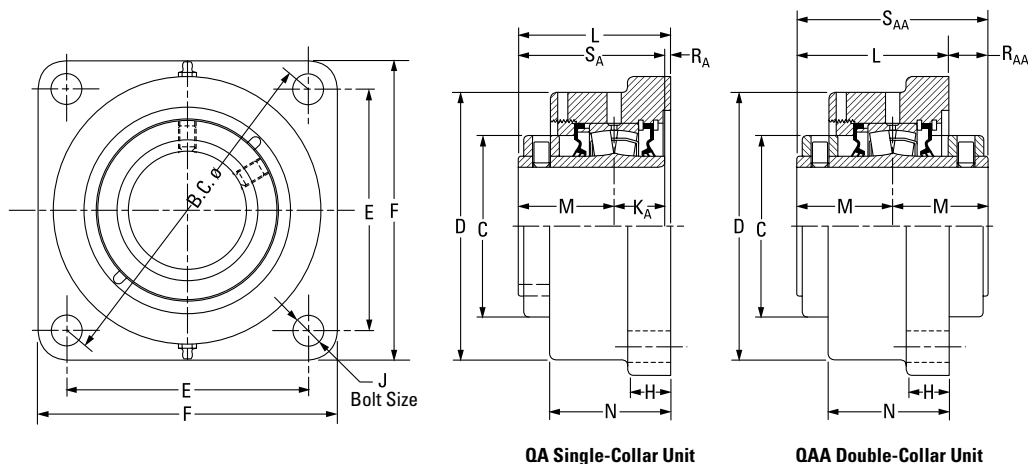


| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | B.C. | C | D | E | F | H | J | KA | L FIX | L EXP | M | N | RA | RAA | SA | SAA | Wt. | |
|---------------------------------|-------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| | 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. | mm in. | mm in. | mm in. | mm in. | mm in. | kg lbs. |
| QAF08A035S | 35 mm | 22208 | 125.7 | 60.5 | 93.7 | 88.9 | 117.6 | 22.4 | 12 | 25.4 | 72.9 | 74.9 | 44.5 | 57.2 | 3.0 | - | 69.9 | - | 4.5 | |
| QAF08A107S | 1 7/16 in. | | 4.95 | 2.38 | 3.69 | 3.50 | 4.63 | 0.88 | 1/2 | 1.00 | 2.87 | 2.95 | 1.75 | 2.25 | 0.12 | - | 2.75 | - | 10 | |
| QAF08A108S | 1 1/2 in. | 22208 | 148.3 | 60.5 | 108.0 | 104.9 | 136.7 | 22.4 | 12 | 25.4 | 73.7 | 75.7 | 44.5 | 59.4 | 3.8 | - | 69.9 | - | 4.5 | |
| | | | 5.84 | 2.38 | 4.25 | 4.13 | 5.38 | 0.88 | 1/2 | 1.00 | 2.90 | 2.98 | 1.75 | 2.34 | 0.15 | - | 2.75 | - | 10 | |
| QAF09A040S | 40 mm | 22209 | 148.3 | 66.8 | 118.4 | 104.9 | 136.7 | 22.4 | 12 | 25.4 | 79.5 | 81.5 | 47.8 | 63.5 | 6.4 | - | 73.2 | - | 5.0 | |
| QAF09A111S | 1 1/16 in. | | 5.84 | 2.63 | 4.66 | 4.13 | 5.38 | 0.88 | 1/2 | 1.00 | 3.13 | 3.21 | 1.88 | 2.50 | 0.25 | - | 2.88 | - | 11 | |
| QAF09A112S | 1 3/4 in. | 22209 | 157.2 | 66.8 | 118.4 | 111.3 | 143.0 | 22.4 | 12 | 25.4 | 79.5 | 81.5 | 47.8 | 63.5 | 6.4 | - | 73.2 | - | 5.0 | |
| QAF09A045S | 45 mm | | 6.19 | 2.63 | 4.66 | 4.38 | 5.63 | 0.88 | 1/2 | 1.00 | 3.13 | 3.21 | 1.88 | 2.50 | 0.25 | - | 2.88 | - | 11 | |
| QAF10A115S | 1 15/16 in. | 22210 | 157.2 | 73.2 | 120.7 | 111.3 | 139.7 | 22.4 | 12 | 25.4 | 80.8 | 82.8 | 47.5 | 65.0 | 7.9 | 15.2 | 72.9 | 95.3 | 5.0 | |
| QAAF10A115S | | | | | | | | | | | | | | | | | | | | |
| QAF10A200S | 2 in. | 22210 | 157.2 | 73.2 | 120.7 | 111.3 | 139.7 | 22.4 | 12 | 25.4 | 80.8 | 82.8 | 47.5 | 65.0 | 7.9 | 15.2 | 72.9 | 95.3 | 5.0 | |
| QAAF10A200S | | | | | | | | | | | | | | | | | | | | |
| QAF10A050S | 50 mm | 22210 | 157.2 | 73.2 | 120.7 | 111.3 | 139.7 | 22.4 | 12 | 25.4 | 80.8 | 82.8 | 47.5 | 65.0 | 7.9 | 15.2 | 72.9 | 95.3 | 5.0 | |
| QAAF10A050S | | | | | | | | | | | | | | | | | | | | |
| QAF11A203S | 2 3/16 in. | 22211 | 175.0 | 82.6 | 130.3 | 124.0 | 157.2 | 25.4 | 16 | 28.7 | 83.1 | 85.1 | 50.8 | 66.8 | 3.8 | 18.5 | 79.5 | 101.6 | 6.4 | |
| QAAF11A203S | | | | | | | | | | | | | | | | | | | | |
| QAF11A204S | 2 1/4 in. | 22211 | 175.0 | 82.6 | 130.3 | 124.0 | 157.2 | 25.4 | 16 | 28.7 | 83.1 | 85.1 | 50.8 | 66.8 | 3.8 | 18.5 | 79.5 | 101.6 | 6.4 | |
| QAAF11A204S | | | | | | | | | | | | | | | | | | | | |
| QAF11A055S | 55 mm | 22211 | 175.0 | 82.6 | 130.3 | 124.0 | 157.2 | 25.4 | 16 | 28.7 | 83.1 | 85.1 | 50.8 | 66.8 | 3.8 | 18.5 | 79.5 | 101.6 | 6.4 | |
| QAAF11A055S | | | | | | | | | | | | | | | | | | | | |
| QAF13A060S | 60 mm | 22213 | 193.0 | 96.8 | 146.1 | 136.7 | 168.4 | 25.4 | 16 | 31.5 | 89.2 | 91.2 | 54.6 | 72.4 | 3.0 | 20.1 | 86.1 | 109.2 | 7.7 | |
| QAAF13A060S | | | | | | | | | | | | | | | | | | | | |
| QAF13A207S | 2 7/16 in. | 22213 | 193.0 | 96.8 | 146.1 | 136.7 | 168.4 | 25.4 | 16 | 31.5 | 89.2 | 91.2 | 54.6 | 72.4 | 3.0 | 20.1 | 86.1 | 109.2 | 7.7 | |
| QAAF13A207S | | | | | | | | | | | | | | | | | | | | |
| QAF13A208S | 2 1/2 in. | 22213 | 193.0 | 96.8 | 146.1 | 136.7 | 168.4 | 25.4 | 16 | 31.5 | 89.2 | 91.2 | 54.6 | 72.4 | 3.0 | 20.1 | 86.1 | 109.2 | 7.7 | |
| QAAF13A208S | | | | | | | | | | | | | | | | | | | | |
| QAF13A065S | 65 mm | 22213 | 193.0 | 96.8 | 146.1 | 136.7 | 168.4 | 25.4 | 16 | 31.5 | 89.2 | 91.2 | 54.6 | 72.4 | 3.0 | 20.1 | 86.1 | 109.2 | 7.7 | |
| QAAF13A065S | | | | | | | | | | | | | | | | | | | | |

⁽¹⁾Bearing part numbers use QA to designate single-collar units (use SA and RA dimensions) and QAA to designate double-collar units (use SAA and RAA dimensions).

Continued on next page.

QAF AND QAAF SQUARE FLANGE BLOCKS



QA Single-Collar Unit

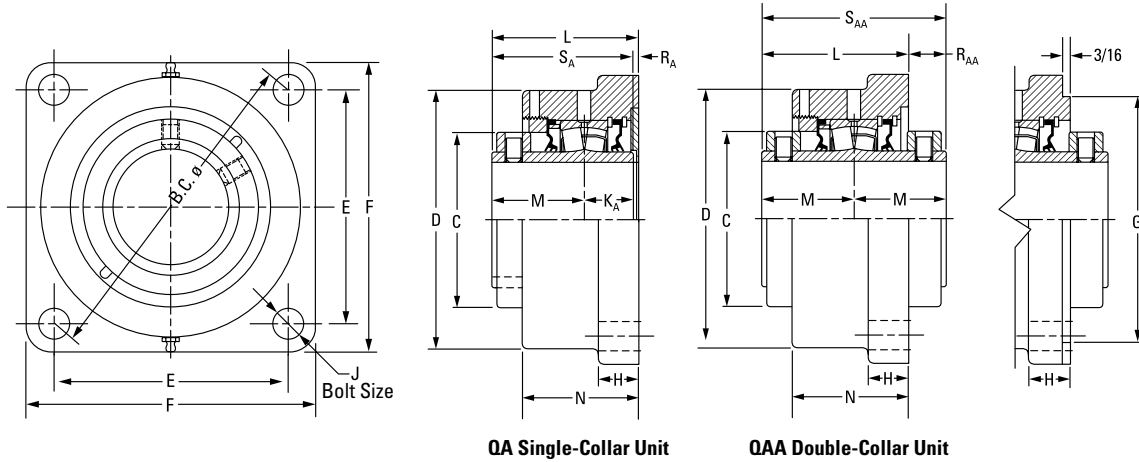
QAA Double-Collar Unit

Continued from previous page.

| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | B.C. | C | D | E | F | H | J | K _A | L FIX | L EXP | M | N | R _A | R _{AA} | S _A | S _{AA} | Wt. | |
|---------------------------------|-------------|-------------|----------------|----------------|----------------|---------------|----------------|--------------|-----------|----------------|---------------|---------------|--------------|---------------|----------------|-----------------|----------------|-----------------|------------|------------|
| | 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. | mm in. | mm in. | mm in. | mm in. | mm in. | kg lbs. |
| QAF15A211S QAAF15A211S | 2 1/16 in. | 22215 | 215.4 8.48 | 109.0 4.29 | 168.9 6.65 | 152.4 6.00 | 189.0 7.44 | 26.9 1.06 | 20 3/4 | 31.8 1.25 | 95.8 3.77 | 97.8 3.85 | 60.2 2.37 | 76.2 3.00 | 3.8 0.15 | 24.6 0.97 | 91.9 3.62 | 120.4 4.74 | 10.4 23 | |
| QAF15A212S QAAF15A212S | 2 3/4 in. | | | | | | | | | | | | | | | | | | | |
| QAF15A070S QAAF15A070S | 70 mm | | | | | | | | | | | | | | | | | | | |
| QAF15A215S QAAF15A215S | 2 15/16 in. | | | | | | | | | | | | | | | | | | | |
| QAF15A300S QAAF15A300S | 3 in. | | | | | | | | | | | | | | | | | | | |
| QAF15A075S QAAF15A075S | 75 mm | | | | | | | | | | | | | | | | | | | |
| QAF18A303S QAAF18A303S | 3 3/16 in. | 22218 | 251.7 9.91 | 130.3 5.13 | 193.8 7.63 | 177.8 7.00 | 219.2 8.63 | 33.3 1.31 | 20 3/4 | 36.6 1.44 | 107.2 4.22 | 109.2 4.30 | 65.8 2.59 | 84.1 3.31 | 4.8 0.19 | 24.4 0.96 | 102.4 4.03 | 131.6 5.18 | 15.9 35 | |
| QAF18A304S QAAF18A304S | 3 1/4 in. | | | | | | | | | | | | | | | | | | | |
| QAF18A080S QAAF18A080S | 80 mm | | | | | | | | | | | | | | | | | | | |
| QAF18A085S QAAF18A085S | 85 mm | | | | | | | | | | | | | | | | | | | |
| QAF18A307S QAAF18A307S | 3 7/16 in. | | | | | | | | | | | | | | | | | | | |
| QAF18A308S QAAF18A308S | 3 1/2 in. | | | | | | | | | | | | | | | | | | | |
| QAF18A090S QAAF18A090S | 90 mm | | | | | | | | | | | | | | | | | | | |
| QAF20A315S QAAF20A315S | 3 15/16 in. | 22220 | 278.4 10.96 | 152.4 6.00 | 224.0 8.82 | 196.9 7.75 | 253.2 9.97 | 38.1 1.50 | 24 7/8 | 41.4 1.63 | 126.0 4.96 | 128.0 5.04 | 75.4 2.97 | 103.1 4.06 | 9.4 0.37 | 24.1 0.95 | 116.6 4.59 | 150.4 5.92 | 24.9 55 | |
| QAF20A400S QAAF20A400S | 4 in. | | | | | | | | | | | | | | | | | | | |
| QAF20A100S QAAF20A100S | 100 mm | | | | | | | | | | | | | | | | | | | |
| QAF22A110S QAAF22A110S | 110 mm | 22222 | 314.5 12.38 | 155.70 6.13 | 256.8 10.11 | 222.3 8.75 | 276.4 10.88 | 38.1 1.50 | 24 7/8 | - | 135.6 5.34 | 137.7 5.42 | 79.5 3.13 | 106.9 4.21 | - | 23.4 0.92 | - | 158.8 6.25 | 28.6 63 | |
| QAF22A407S QAAF22A407S | 4 7/16 in. | | | | | | | | | | | | | | | | | | | |
| QAF22A408S QAAF22A408S | 4 1/2 in. | | | | | | | | | | | | | | | | | | | |
| QAF22A115S QAAF22A115S | 115 mm | | | | | | | | | | | | | | | | | | | |

⁽¹⁾Bearing part numbers use QA to designate single-collar units (use S_A and R_A dimensions) and QAA to designate double-collar units (use S_{AA} and R_{AA} dimensions).

QAFL AND QAAFL SQUARE FLANGE BLOCKS



QA Single-Collar Unit

QAA Double-Collar Unit

| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | B.C. | C | D | E | F | G ⁽²⁾⁽³⁾⁽⁴⁾ | H | J | K _A | L FIX | L EXP | M | N | R _A | R _{AA} | S _A | S _{AA} | Wt. | |
|---------------------------------|------------|-------------|-----------|-----------|-----------|-----------|-----------|------------------------|-----------|-----------|----------------|-----------|-----------|-----------|-----------|----------------|-----------------|----------------|-----------------|-----------|------------|
| | 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. | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. | kg lbs. |
| QAFL08A035S | 35 mm | 22208 | 127.0 | 60.5 | 93.7 | 89.9 | 117.6 | N/A | 22.4 | 12 | 25.4 | 72.9 | 74.9 | 44.5 | 57.2 | 3.0 | - | 69.9 | - | 4.5 | |
| QAFL08A107S | 1 7/16 in. | | 5.00 | 2.38 | 3.69 | 3.54 | 4.63 | | 0.88 | 1/2 | 1.00 | 2.87 | 2.95 | 1.75 | 2.25 | 0.12 | | 2.75 | | 10 | |
| QAFL08A108S | 1 1/2 in. | | | | | | | | | | | | | | | | | | | | |
| QAFL09A040S | 40 mm | 22209 | 139.7 | 66.8 | 118.4 | 98.8 | 136.7 | N/A | 22.4 | 12 | 25.4 | 79.5 | 81.5 | 47.8 | 63.5 | 6.6 | - | 73.2 | - | 5.0 | |
| QAFL09A111S | 1 1/4 in. | | 5.50 | 2.63 | 4.66 | 3.89 | 5.38 | | 0.88 | 1/2 | 1.00 | 3.13 | 3.21 | 1.88 | 2.50 | 0.26 | | 2.88 | | 11 | |
| QAFL09A112S | 1 3/4 in. | | | | | | | | | | | | | | | | | | | | |
| QAFL09A045S | 45 mm | | | | | | | | | | | | | | | | | | | | |
| QAFL10A115S | 1 1/4 in. | 22210 | 146.1 | 73.2 | 115.3 | 103.4 | 131.8 | N/A | 23.1 | 12 | 25.4 | 80.8 | 82.8 | 47.5 | 62.5 | 7.9 | 15.2 | 72.9 | 95.3 | 5.0 | |
| QAFL10A200S | 2 in. | | 5.75 | 2.88 | 4.54 | 4.07 | 5.19 | | 0.91 | 1/2 | 1.00 | 3.18 | 3.26 | 1.87 | 2.46 | 0.31 | 0.60 | 2.87 | 3.75 | 11 | |
| QAFL10A050S | 50 mm | | | | | | | | | | | | | | | | | | | | |
| QAFL10A050S | 50 mm | | | | | | | | | | | | | | | | | | | | |
| QAFL11A203S | 2 3/16 in. | 22211 | 162.1 | 82.6 | 131.8 | 114.3 | 149.4 | N/A | 19.1 | 16 | 28.7 | 83.3 | 85.3 | 50.8 | 66.8 | 3.8 | 18.3 | 79.5 | 101.6 | 6.4 | |
| QAFL11A204S | 2 1/4 in. | | 6.38 | 3.25 | 5.19 | 4.50 | 5.88 | | 0.75 | 5/8 | 1.13 | 3.28 | 3.36 | 2.00 | 2.63 | 0.15 | 0.72 | 3.13 | 4.00 | 14 | |
| QAFL11A055S | 55 mm | | | | | | | | | | | | | | | | | | | | |
| QAFL11A055S | 55 mm | | | | | | | | | | | | | | | | | | | | |
| QAFL13A060S | 60 mm | 22213 | 171.5 | 96.8 | 146.1 | 121.2 | 157.2 | N/A | 25.4 | 16 | 31.5 | 89.2 | 91.2 | 54.6 | 72.6 | 3.0 | 20.1 | 86.1 | 109.2 | 7.7 | |
| QAFL13A207S | 2 7/16 in. | | 6.75 | 3.81 | 5.75 | 4.77 | 6.19 | | 1.00 | 3/4 | 1.24 | 3.51 | 3.59 | 2.15 | 2.86 | 0.12 | 0.79 | 3.39 | 4.30 | 17 | |
| QAFL13A207S | 2 7/16 in. | | | | | | | | | | | | | | | | | | | | |
| QAFL13A208S | 2 1/2 in. | | | | | | | | | | | | | | | | | | | | |
| QAFL13A208S | 2 1/2 in. | | | | | | | | | | | | | | | | | | | | |
| QAFL13A065S | 65 mm | | | | | | | | | | | | | | | | | | | | |
| QAFL13A065S | 65 mm | | | | | | | | | | | | | | | | | | | | |

⁽¹⁾ Bearing part numbers use QA to designate single-collar units (use S_A and R_A dimensions) and QAA to designate double-collar units (use S_{AA} and R_{AA} dimensions).

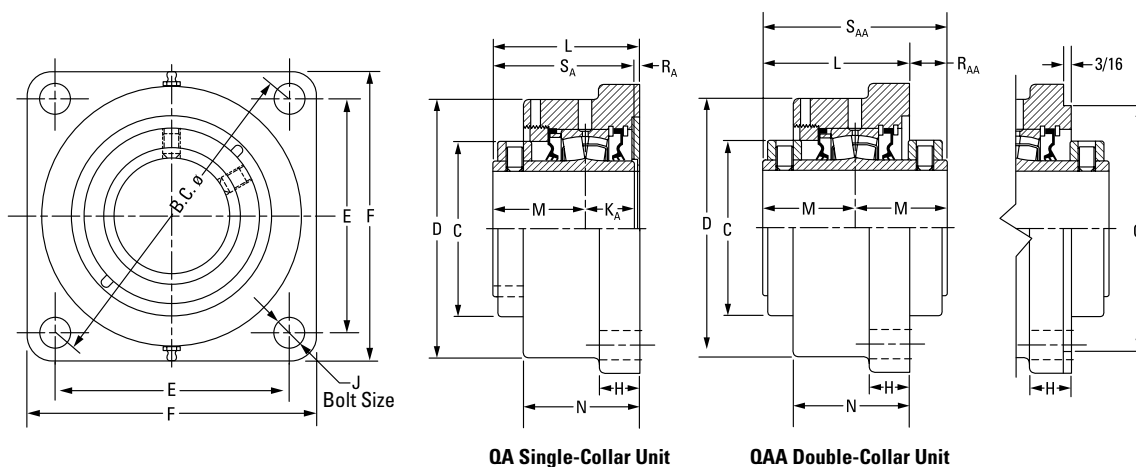
⁽²⁾ Pilot tolerance: +0/-0.05 mm (+0/-0.002 in.).

⁽³⁾ Add (p) to the end of the housing designation in the part number to order with pilot using G dimension.

⁽⁴⁾ Piloted flange blocks will be quoted (price and delivery) upon request. For optional spigot on flange side, insert the letter P as seen in the following example: QMFP**J***S.

Continued on next page.

QAFL AND QAAFL SQUARE FLANGE BLOCKS



Continued from previous page.

| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | B.C. | C | D | E | F | G ⁽²⁾⁽³⁾⁽⁴⁾ | H | J | K _A | L FIX | L EXP | M | N | R _A | R _{AA} | S _A | S _{AA} | Wt. |
|---------------------------------|-------------|-------------|----------------|---------------|---------------|---------------|---------------|------------------------|--------------|-----------|----------------|---------------|---------------|--------------|---------------|----------------|-----------------|----------------|-----------------|------------|
| | 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. | mm in. | mm in. | mm in. | mm in. | mm in. | kg lbs. |
| QAFL15A211S QAAFL15A211S | 2 1/16 in. | 22215 | 200.2 7.88 | 109.0 4.29 | 168.4 6.63 | 141.2 5.56 | 182.6 7.19 | N/A | 26.9 1.06 | 20 3/4 | 31.8 1.25 | 95.8 3.77 | 97.8 3.85 | 60.2 2.37 | 74.4 2.93 | 3.8 0.15 | 24.6 0.97 | 91.9 3.62 | 120.4 4.74 | 10.4 23 |
| QAFL15A070S QAAFL15A070S | 70 mm | | | | | | | | | | | | | | | | | | | |
| QAFL15A215S QAAFL15A215S | 2 15/16 in. | | | | | | | | | | | | | | | | | | | |
| QAFL15A300S QAAFL15A300S | 3 in. | | | | | | | | | | | | | | | | | | | |
| QAFL15A075S QAAFL15A075S | 75 mm | | | | | | | | | | | | | | | | | | | |
| QAFL18A303S QAAFL18A303S | 3 3/16 in. | | | | | | | | | | | | | | | | | | | |
| QAFL18A304S QAAFL18A304S | 3 1/4 in. | | | | | | | | | | | | | | | | | | | |
| QAFL18A080S QAAFL18A080S | 80 mm | | | | | | | | | | | | | | | | | | | |
| QAFL18A085S QAAFL18A085S | 85 mm | | | | | | | | | | | | | | | | | | | |
| QAFL18A307S QAAFL18A307S | 3 7/16 in. | | | | | | | | | | | | | | | | | | | |
| QAFL18A308S QAAFL18A308S | 3 1/2 in. | | | | | | | | | | | | | | | | | | | |
| QAFL18A090S QAAFL18A090S | 90 mm | 22220 | 273.1 10.75 | 152.4 6.00 | 229.6 9.04 | 193.0 7.60 | 241.3 9.50 | 215.90 8.500 | 38.1 1.50 | 24 1 | 41.4 1.63 | 132.3 5.21 | 134.4 5.29 | 75.4 2.97 | 104.6 4.12 | 15.7 0.62 | 18.0 0.71 | 116.6 4.59 | 150.4 5.92 | 24.9 55 |
| QAFL20A315S QAAFL20A315S | 3 15/16 in. | | | | | | | | | | | | | | | | | | | |
| QAFL20A400S QAAFL20A400S | 4 in. | | | | | | | | | | | | | | | | | | | |
| QAFL20A100S QAAFL20A100S | 100 mm | | | | | | | | | | | | | | | | | | | |

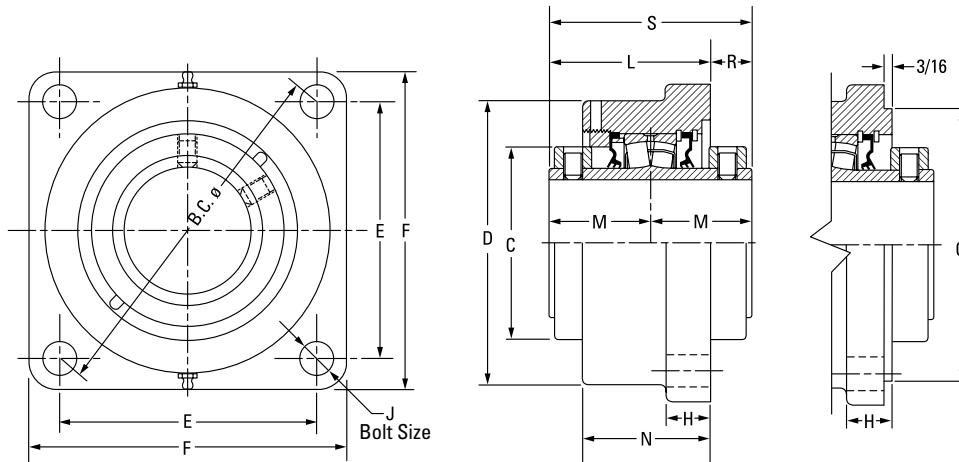
⁽¹⁾ Bearing part numbers use QA to designate single-collar units (use S_A and R_A dimensions) and QAA to designate double-collar units (use S_{AA} and R_{AA} dimensions).

⁽²⁾ Pilot tolerance: +0/-0.05 mm (+0/-0.002 in.).

⁽³⁾ Add (p) to the end of the housing designation in the part number to order with pilot using G dimension.

⁽⁴⁾ Piloted flange blocks will be quoted (price and delivery) upon request. For optional spigot on flange side, insert the letter P as seen in the following example: QAFL**A***S

QAAF 5000 SERIES FLANGE BLOCKS



| Bearing Part No. | Shaft Dia. | Bearing No. | B.C. | C | D | E | F | G ⁽¹⁾⁽²⁾⁽³⁾ | H | J | L FIX | L EXP | M | N | R | S | Wt. |
|----------------------------|-------------|-------------|----------------------|-----------|-----------|---------------------|-----------|------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| | 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. | mm in. | mm in. | kg lbs. |
| QAAF10A115S | 1 15/16 in. | 22210 | 146.1 | 73.2 | 120.7 | 103.1 | 134.9 | 111.13 | 22.4 | 12 | 80.8 | 82.8 | 47.5 | 65.0 | 15.2 | 95.3 | 5.4 |
| QAAF10A200S | 2 in. | | 5.75 | 2.88 | 4.75 | 4.06 | 5.31 | 4.375 | 0.88 | 1/2 | 3.18 | 3.26 | 1.87 | 2.56 | 0.60 | 3.75 | 12 |
| QAAF10A050S | 50 mm | | | | | | | | | | | | | | | | |
| QAAF11A203S | 2 3/8 in. | 22211 | 161.5 | 82.6 | 130.3 | 114.3 | 149.4 | 127.00 | 25.4 | 16 | 83.1 | 85.1 | 50.5 | 66.8 | 18.5 | 101.6 | 6.8 |
| QAAF11A204S | 2 1/4 in. | | 6.36 | 3.25 | 5.13 | 4.50 | 5.88 | 5.000 | 1.00 | 5/8 | 3.27 | 3.35 | 1.99 | 2.63 | 0.73 | 4.00 | 15 |
| QAAF11A055S | 55 mm | | | | | | | | | | | | | | | | |
| QAAF13A060S | 60 mm | 22213 | 180.8 | 96.8 | 146.1 | 127.8 | 157.2 | 138.13 | 25.4 | 16 | 89.2 | 91.2 | 54.6 | 72.4 | 19.6 | 109.2 | 8.6 |
| QAAF13A207S | 2 7/8 in. | | 7.12 | 3.81 | 5.75 | 5.03 | 6.19 | 5.438 | 1.00 | 5/8 | 3.51 | 3.59 | 2.15 | 2.85 | 0.77 | 4.30 | 19 |
| QAAF13A208S | 2 1/2 in. | | | | | | | | | | | | | | | | |
| QAAF13A065S | 65 mm | | | | | | | | | | | | | | | | |
| QAAF15A211S | 2 15/16 in. | 22215 | 215.9 | 109.0 | 168.9 | 152.7 | 189.0 | 160.35 | 26.9 | 20 | 96.0 | 98.0 | 60.2 | 76.2 | 24.4 | 120.4 | 12.7 |
| QAAF15A212S | 2 3/4 in. | | 8.50 | 4.29 | 6.65 | 6.01 | 7.44 | 6.313 | 1.06 | 3/4 | 3.78 | 3.86 | 2.37 | 3.00 | 0.96 | 4.74 | 28 |
| QAAF15A070S | 70 mm | | | | | | | | | | | | | | | | |
| QAAF15A215S | 2 15/16 in. | | | | | | | | | | | | | | | | |
| QAAF15A300S | 3 in. | | | | | | | | | | | | | | | | |
| QAAF15A075S | 75 mm | | | | | | | | | | | | | | | | |
| QAAF18A303S | 3 3/8 in. | 22218 | 241.3 | 130.3 | 193.8 | 170.7 | 212.9 | 187.33 | 33.3 | 20 | 107.2 | 109.2 | 65.8 | 84.1 | 24.6 | 131.6 | 19.1 |
| QAAF18A304S | 3 1/4 in. | | 9.50 | 5.13 | 7.63 | 6.72 | 8.38 | 7.375 | 1.31 | 3/4 | 4.22 | 4.30 | 2.59 | 3.31 | 0.97 | 5.18 | 42 |
| QAAF18A080S | 80 mm | | | | | | | | | | | | | | | | |
| QAAF18A085S | 85 mm | | | | | | | | | | | | | | | | |
| QAAF18A307S | 3 7/8 in. | | | | | | | | | | | | | | | | |
| QAAF18A308S | 3 1/2 in. | | | | | | | | | | | | | | | | |
| QAAF18A090S | 90 mm | | | | | | | | | | | | | | | | |
| QAAF20A315S | 3 15/16 in. | 22220 | 298.5 | 152.4 | 215.9 | 211.1 | 268.2 | 225.43 | 38.1 | 24 | 126.0 | 128.0 | 75.4 | 103.1 | 24.6 | 150.4 | 29.9 |
| QAAF20A400S | 4 in. | | 11.75 | 6.00 | 8.50 | 8.31 | 10.56 | 8.875 | 1.50 | 7/8 | 4.96 | 5.04 | 2.97 | 4.06 | 0.97 | 5.92 | 66 |
| QAAF20A100S | 100 mm | | | | | | | | | | | | | | | | |
| QAAF22A110S | 110 mm | | | | | | | | | | | | | | | | |
| QAAF22A407S ⁽⁴⁾ | 4 7/8 in. | 22222 | 327.2 | 160.0 | 256.5 | 163.6 | 384.3 | 263.53 | 31.8 | 24 | 143.8 | 145.8 | 94.0 | 106.9 | 15.0 | 158.8 | 46.3 |
| QAAF22A408S ⁽⁴⁾ | 4 1/2 in. | | 12.88 ⁽⁴⁾ | 6.30 | 10.10 | 6.44 ⁽⁴⁾ | 15.13 | 10.375 | 1.25 | 7/8 | 5.66 | 5.74 | 3.70 | 4.21 | 0.59 | 6.25 | 102 |
| QAAF22A115S ⁽⁴⁾ | 115 mm | | | | | | | | | | | | | | | | |
| QAAF26A125S ⁽⁴⁾ | 125 mm | | | | | | | | | | | | | | | | |
| QAAF26A415S ⁽⁴⁾ | 4 15/16 in. | 22226 | 355.6 | 175.0 | 284.2 | 177.8 | 419.1 | 284.18 | 38.1 | 24 | 174.8 | 176.8 | 94.5 | 135.1 | 14.2 | 189.0 | 52.2 |
| QAAF26A500S ⁽⁴⁾ | 5 in. | | 14.00 ⁽⁴⁾ | 6.89 | 11.19 | 7.00 ⁽⁴⁾ | 16.50 | 11.188 | 1.50 | 1 | 6.88 | 6.96 | 3.72 | 5.32 | 0.56 | 7.44 | 115 |
| QAAF26A130S ⁽⁴⁾ | 130 mm | | | | | | | | | | | | | | | | |

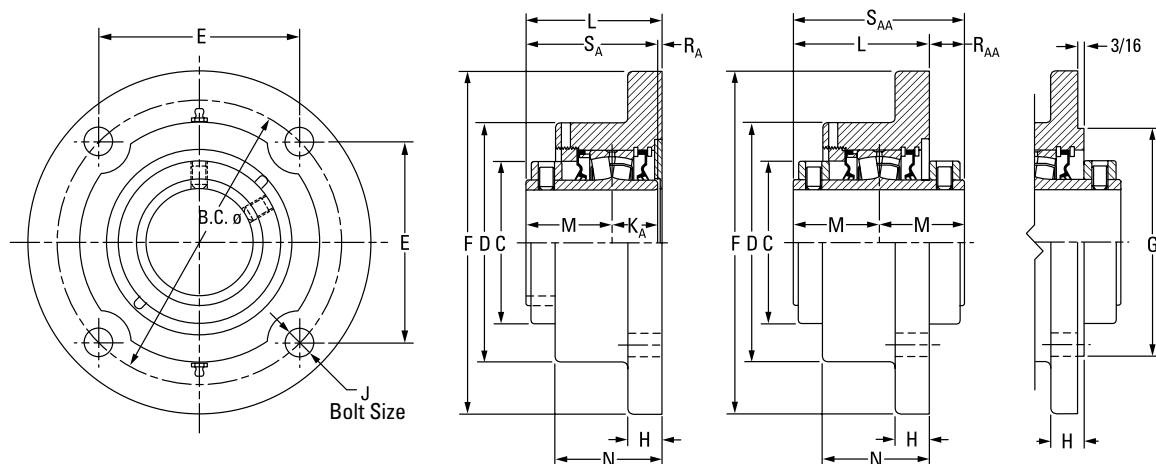
⁽¹⁾Pilot tolerance: +0/-0.05 mm (+0/-0.002 in.).

⁽²⁾Add (p) to the end of the housing designation in the part number to order with pilot using G dimension.

⁽³⁾Piloted flange blocks will be quoted (price and delivery) upon request. For optional spigot on flange side, insert the letter P as seen in the following example: QMFP**J***S.

⁽⁴⁾Six-bolt round housing.

QAFY AND QAAFY ROUND FLANGE BLOCKS



| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | B.C. | C | D | E | F | G ⁽²⁾⁽³⁾⁽⁴⁾ | H | J | KA | L FIX | L EXP | M | N | RA | RAA | SA | SAA | Wt. |
|---------------------------------|--------------|-------------|---------------|--------------|---------------|---------------|---------------|------------------------|--------------|-----------|--------------|--------------|--------------|--------------|--------------|-------------|--------------|--------------|---------------|------------|
| | 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. | mm in. | mm in. | mm in. | mm in. | mm in. | kg lbs. |
| QAFY08A035S ⁽⁵⁾ | 35 mm | | | | | | | | | | | | | | | | | | | |
| QAFY08A107S ⁽⁵⁾ | 1 7/16 in. | 22208 | 127.0 5.00 | 60.5 2.38 | 108.0 4.25 | 110.0 4.33 | 158.8 6.25 | 90.50 3.563 | 19.1 0.75 | 12 1/2 | 25.4 1.00 | 73.2 2.88 | 75.2 2.96 | 44.5 1.75 | 57.4 2.26 | 3.3 0.13 | — | 69.9 2.75 | — | 4.5 10 |
| QAFY08A108S ⁽⁵⁾ | 1 1/2 in. | | | | | | | | | | | | | | | | | | | |
| QAFY09A040S | 40 mm | | | | | | | | | | | | | | | | | | | |
| QAFY09A111S | 1 11/16 in. | 22209 | 139.7 5.50 | 66.8 2.63 | 104.9 4.13 | 98.8 3.89 | 171.5 6.75 | 103.20 4.063 | 20.6 0.81 | 12 1/2 | 25.4 1.00 | 76.2 3.00 | 78.2 3.08 | 47.8 1.88 | 60.5 2.38 | 3.0 0.12 | — | 73.2 2.88 | — | 5.0 11 |
| QAFY09A112S | 1 3/4 in. | | | | | | | | | | | | | | | | | | | |
| QAFY09A045S | 45 mm | | | | | | | | | | | | | | | | | | | |
| QAFY10A115S | 1 15/16 in. | | | | | | | | | | | | | | | | | | | |
| QAAFY10A115S | | | | | | | | | | | | | | | | | | | | |
| QAFY10A200S | 2 in. | 22210 | 146.1 5.75 | 73.2 2.88 | 115.3 4.54 | 103.4 4.07 | 177.8 7.00 | 111.13 4.375 | 19.1 0.75 | 12 1/2 | 25.4 1.00 | 75.9 2.99 | 78.0 3.07 | 47.5 1.87 | 57.2 2.25 | 3.0 0.12 | 20.1 0.79 | 72.9 2.87 | 95.3 3.75 | 5.4 12 |
| QAAFY10A200S | | | | | | | | | | | | | | | | | | | | |
| QAFY10A050S | 50 mm | | | | | | | | | | | | | | | | | | | |
| QAAFY10A050S | | | | | | | | | | | | | | | | | | | | |
| QAFY11A203S | 2 3/16 in. | | | | | | | | | | | | | | | | | | | |
| QAAFY11A203S | | | | | | | | | | | | | | | | | | | | |
| QAFY11A204S | 2 1/4 in. | 22211 | 162.1 6.38 | 82.6 3.25 | 130.3 5.13 | 114.3 4.50 | 196.9 7.75 | 127.00 5.000 | 19.1 0.75 | 16 5/8 | 28.7 1.13 | 82.3 3.24 | 84.3 3.32 | 50.8 2.00 | 62.0 2.44 | 3.0 0.12 | 19.3 0.76 | 79.5 3.13 | 101.6 4.00 | 6.8 15 |
| QAAFY11A204S | | | | | | | | | | | | | | | | | | | | |
| QAFY11A055S | 55 mm | | | | | | | | | | | | | | | | | | | |
| QAAFY11A055S | | | | | | | | | | | | | | | | | | | | |
| QAFY13A060S | 60 mm | | | | | | | | | | | | | | | | | | | |
| QAAFY13A060S | | | | | | | | | | | | | | | | | | | | |
| QAFY13A207S | 2 7/16 in. | 22213 | 171.5 6.75 | 96.8 3.81 | 146.1 5.75 | 121.2 4.77 | 206.5 8.13 | 138.13 5.438 | 23.9 0.94 | 16 5/8 | 31.5 1.24 | 91.2 3.49 | 93.2 3.67 | 54.6 2.15 | 72.4 2.85 | 5.1 0.20 | 20.6 0.81 | 86.1 3.39 | 109.2 4.30 | 8.6 19 |
| QAAFY13A207S | | | | | | | | | | | | | | | | | | | | |
| QAFY13A208S | 2 1/2 in. | | | | | | | | | | | | | | | | | | | |
| QAAFY13A208S | | | | | | | | | | | | | | | | | | | | |
| QAFY13A065S | 65 mm | | | | | | | | | | | | | | | | | | | |
| QAAFY13A065S | | | | | | | | | | | | | | | | | | | | |

⁽¹⁾ Bearing part numbers use QA to designate single-collar units (use SA and RA dimensions) and QAA to designate double-collar units (use SAA and RAA dimensions).

⁽²⁾ Pilot tolerance: +0/-0.05 mm (+0/-0.002 in.).

⁽³⁾ Add (p) to the end of the housing designation in the part number to order with pilot using G dimension.

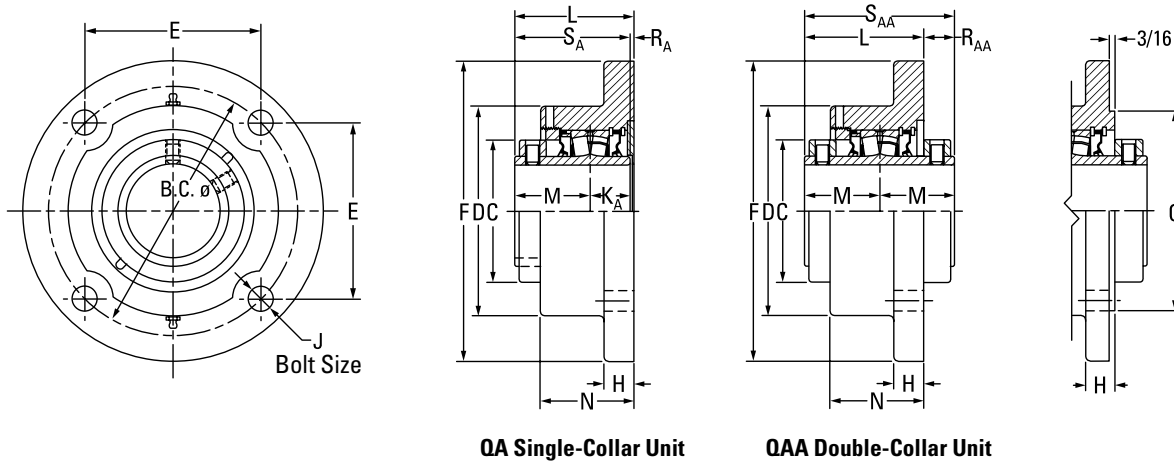
⁽⁴⁾ Piloted flange blocks will be quoted (price and delivery) upon request. For optional spigot on flange side, insert the letter P as seen in the following example: QMFP**J***S.

⁽⁵⁾ Three-bolt housing.

⁽⁶⁾ Six-bolt housing.

Continued on next page.

QAFY AND QAAFY ROUND FLANGE BLOCKS – continued



QA Single-Collar Unit

QAA Double-Collar Unit

Continued from previous page.

| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | B.C. | C | D | E | F | G ⁽²⁾⁽³⁾⁽⁴⁾ | H | J | KA | L FIX | L EXP | M | N | RA | RAA | SA | SAA | Wt. | |
|---|-------------|-------------|-------------------------------|---------------|----------------|------------------------------|----------------|------------------------|--------------|----------------------------|--------------|---------------|---------------|--------------|---------------|-------------|--------------|---------------|---------------|-------------|--|
| | 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. | mm in. | mm in. | mm in. | mm in. | mm in. | kg lbs. | |
| QAFY15A211S QAAFY15A211S | 2 1/16 in. | 22215 | 200.2 7.88 | 109.0 4.29 | 168.4 6.63 | 141.5 5.57 | 241.3 9.50 | 160.35 6.313 | 23.9 0.94 | 20 3/4 | 31.8 1.25 | 98.3 3.87 | 100.3 3.95 | 60.2 2.37 | 74.4 2.93 | 6.4 0.25 | 21.8 0.86 | 91.9 3.62 | 120.4 4.74 | 12.7 28 | |
| QAFY15A212S QAAFY15A212S | 2 3/4 in. | | | | | | | | | | | | | | | | | | | | |
| QAFY15A070S QAAFY15A070S | 70 mm | | | | | | | | | | | | | | | | | | | | |
| QAFY15A215S QAAFY15A215S | 2 15/16 in. | | | | | | | | | | | | | | | | | | | | |
| QAFY15A300S QAAFY15A300S | 3 in. | | | | | | | | | | | | | | | | | | | | |
| QAFY15A075S QAAFY15A075S | 75 mm | | | | | | | | | | | | | | | | | | | | |
| QAFY18A303S QAAFY18A303S | 3 3/16 in. | 22218 | 241.3 9.50 | 130.3 5.13 | 193.8 7.63 | 170.7 6.72 | 282.7 11.13 | N/A | 28.7 1.13 | 24 7/8 | 36.6 1.44 | 108.7 4.28 | 110.7 4.36 | 65.8 2.59 | 85.3 3.36 | 6.4 0.25 | 22.9 0.90 | 102.4 4.03 | 131.6 5.18 | 19.1 42 | |
| QAFY18A304S QAAFY18A304S | 3 1/4 in. | | | | | | | | | | | | | | | | | | | | |
| QAFY18A080S QAAFY18A080S | 80 mm | | | | | | | | | | | | | | | | | | | | |
| QAFY18A085S QAAFY18A085S | 85 mm | | | | | | | | | | | | | | | | | | | | |
| QAFY18A307S QAAFY18A307S | 3 7/16 in. | | | | | | | | | | | | | | | | | | | | |
| QAFY18A308S QAAFY18A308S | 3 1/2 in. | | | | | | | | | | | | | | | | | | | | |
| QAFY18A090S QAAFY18A090S | 90 mm | 22220 | 273.1 10.75 | 152.4 6.00 | 222.5 8.76 | 193.0 7.60 | 320.8 12.63 | N/A | 28.7 1.13 | 24 1 | 41.4 1.63 | 123.7 4.87 | 125.7 4.95 | 75.4 2.97 | 103.1 4.06 | 6.9 0.27 | 26.7 1.05 | 116.6 4.59 | 150.4 5.92 | 29.9 66 | |
| QAFY20A315S QAAFY20A315S | 3 15/16 in. | | | | | | | | | | | | | | | | | | | | |
| QAFY20A400S QAAFY20A400S | 4 in. | | | | | | | | | | | | | | | | | | | | |
| QAFY20A100S QAAFY20A100S | 100 mm | | | | | | | | | | | | | | | | | | | | |
| QAFY22A110S ⁽⁶⁾ QAAFY22A110S ⁽⁶⁾ | 110 mm | | | | | | | | | | | | | | | | | | | | |
| QAFY22A407S ⁽⁶⁾ QAAFY22A407S ⁽⁶⁾ | 4 7/16 in. | | | | | | | | | | | | | | | | | | | | |
| QAFY22A408S ⁽⁶⁾ QAAFY22A408S ⁽⁶⁾ | 4 1/2 in. | 22222 | 327.2 12.88 ⁽⁵⁾ | 160.0 6.30 | 254.0 10.00 | 163.6 6.44 ⁽⁵⁾ | 384.3 15.13 | N/A | 31.8 1.25 | 24 1 ⁽⁵⁾ | - | 129.0 5.08 | 131.1 5.16 | 79.5 3.13 | 100.3 3.95 | - | 30.0 1.18 | - | 158.8 6.25 | 46.3 102 | |
| QAFY22A115S ⁽⁶⁾ QAAFY22A115S ⁽⁶⁾ | 115 mm | | | | | | | | | | | | | | | | | | | | |
| QAFY26A125S ⁽⁶⁾ QAAFY26A125S ⁽⁶⁾ | 125 mm | 22226 | 355.6 14.00 ⁽⁵⁾ | 175.0 6.89 | 284.2 11.19 | 177.8 7.00 ⁽⁵⁾ | 419.1 16.50 | N/A | 38.1 1.50 | 27 1 1/8 ⁽⁵⁾ | - | 169.9 6.69 | 172.0 6.77 | 94.5 3.72 | 139.7 5.50 | - | 19.1 0.75 | - | 189.0 7.44 | 52.2 115 | |
| QAFY26A415S ⁽⁶⁾ QAAFY26A415S ⁽⁶⁾ | 4 15/16 in. | | | | | | | | | | | | | | | | | | | | |
| QAFY26A500S ⁽⁶⁾ QAAFY26A500S ⁽⁶⁾ | 5 in. | | | | | | | | | | | | | | | | | | | | |
| QAFY26A130S ⁽⁶⁾ QAAFY26A130S ⁽⁶⁾ | 130 mm | | | | | | | | | | | | | | | | | | | | |

⁽¹⁾ Bearing part numbers use QA to designate single-collar units (use SA and RA dimensions) and QAA to designate double-collar units (use SAA and RAA dimensions).

⁽²⁾ Pilot tolerance: +0/-0.05 mm (+0/-0.002 in.).

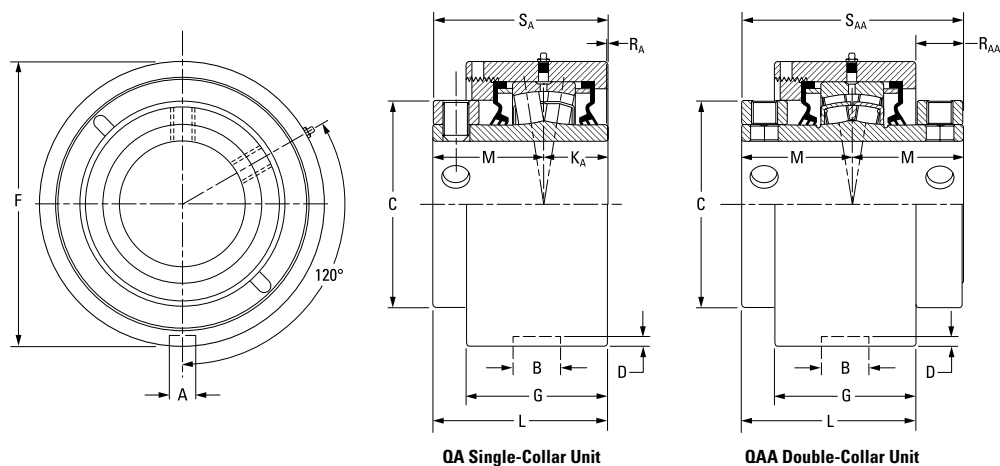
⁽³⁾ Add (p) to the end of the housing designation in the part number to order with pilot using G dimension.

⁽⁴⁾ Piloted flange blocks will be quoted (price and delivery) upon request. For optional spigot on flange side, insert the letter P as seen in the following example: QMFP**J***S.

⁽⁵⁾ Three-bolt housing.

⁽⁶⁾ Six-bolt housing.

QAMC AND QAAMC CARTRIDGE BLOCKS

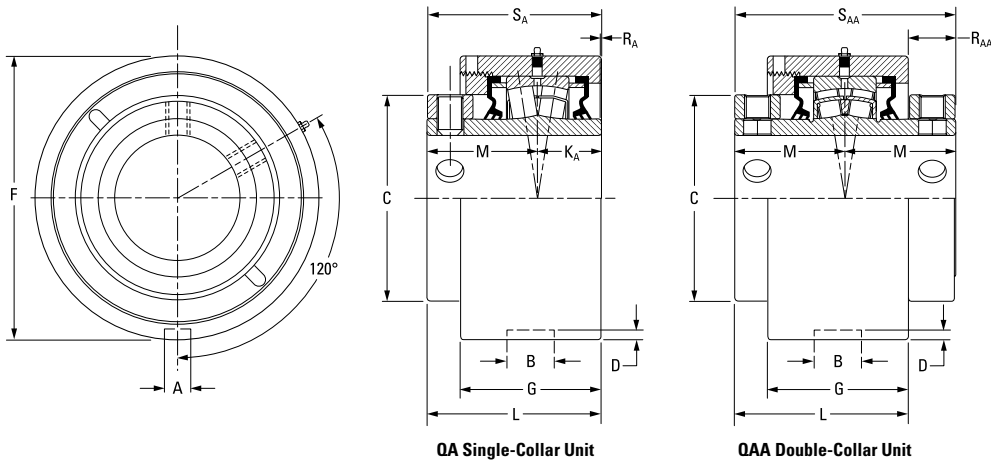


| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D | F | G | K _A | L FIX | L EXP | M | R _A | R _{AA} | S _A | S _{AA} | Wt. |
|---------------------------------|-------------|-------------|--------------|--------------|---------------|-------------|---|--------------|----------------|---------------|---------------|--------------|----------------|-----------------|----------------|-----------------|------------|
| | 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. | mm in. | mm in. | kg lbs. |
| QAMC10A115S QAAMC10A115S | 1 1/16 in. | 22210 | 13.5 0.53 | 23.1 0.91 | 73.2 2.88 | 4.8 0.19 | 104.78 (+0/-0.05) 4.125 (+0/-0.002) | 62.2 2.45 | 25.4 1.00 | 79.2 3.12 | 81.3 3.20 | 47.5 1.87 | 6.1 0.24 | 16.8 0.66 | 72.9 2.87 | 95.3 3.75 | 3.6 8 |
| QAMC10A200S QAAMC10A200S | 2 in. | | | | | | | | | | | | | | | | |
| QAMC10A050S QAAMC10A050S | 50 mm | | | | | | | | | | | | | | | | |
| QAMC11A203S QAAMC11A203S | 2 3/16 in. | 22211 | 13.5 0.53 | 23.1 0.91 | 82.6 3.25 | 4.8 0.19 | 115.09 (+0/-0.05) 4.531 (+0/-0.002) | 65.5 2.58 | 28.7 1.13 | 83.8 3.30 | 85.9 3.38 | 50.8 2.00 | 4.1 0.16 | 18.0 0.71 | 79.5 3.13 | 101.6 4.00 | 4.5 10 |
| QAMC11A204S QAAMC11A204S | 2 1/4 in. | | | | | | | | | | | | | | | | |
| QAMC11A055S QAAMC11A055S | 55 mm | | | | | | | | | | | | | | | | |
| QAMC13A060S QAAMC13A060S | 60 mm | 22213 | 13.5 0.53 | 23.1 0.91 | 96.8 3.81 | 3.6 0.14 | 127.00 (+0/-0.05) 5.000 (+0/-0.002) | 69.3 2.73 | 31.5 1.24 | 85.9 3.38 | 87.9 3.46 | 54.6 2.15 | 0.0 0.00 | 14.0 0.55 | 86.1 3.39 | 109.2 4.30 | 5.4 12 |
| QAMC13A207S QAAMC13A207S | 2 7/16 in. | | | | | | | | | | | | | | | | |
| QAMC13A208S QAAMC13A208S | 2 1/2 in. | | | | | | | | | | | | | | | | |
| QAMC13A065S QAAMC13A065S | 65 mm | 22215 | 15.0 0.59 | 26.2 1.03 | 109.0 4.29 | 6.4 0.25 | 149.225 (+0/-0.05) 5.875 (+0/-0.002) | 79.8 3.14 | 31.8 1.25 | 100.6 3.96 | 102.6 4.04 | 60.2 2.37 | 8.1 0.32 | 19.8 0.78 | 91.9 3.62 | 120.4 4.74 | 8.2 18 |
| QAMC15A211S QAAMC15A211S | 2 11/16 in. | | | | | | | | | | | | | | | | |
| QAMC15A212S QAAMC15A212S | 2 3/4 in. | | | | | | | | | | | | | | | | |
| QAMC15A070S QAAMC15A070S | 70 mm | | | | | | | | | | | | | | | | |
| QAMC15A215S QAAMC15A215S | 2 15/16 in. | | | | | | | | | | | | | | | | |
| QAMC15A300S QAAMC15A300S | 3 in. | | | | | | | | | | | | | | | | |
| QAMC15A075S QAAMC15A075S | 75 mm | | | | | | | | | | | | | | | | |

⁽¹⁾Bearing part numbers use QA to designate single-collar units (use S_A and R_A dimensions) and QAA to designate double-collar units (use S_{AA} and R_{AA} dimensions).

Continued on next page.

QAMC AND QAAMC CARTRIDGE BLOCKS – continued

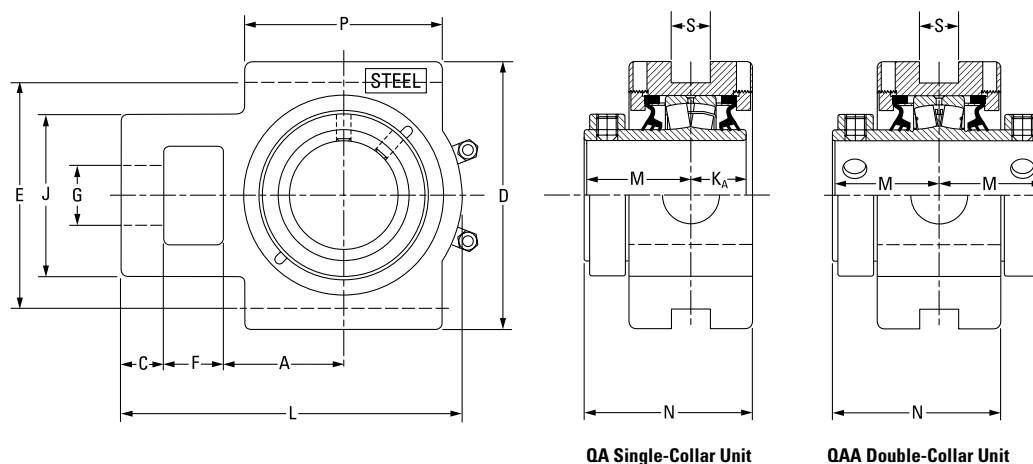


Continued from previous page.

| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D | F | G | K _A | L FIX | L EXP | M | R _A | R _{AA} | S _A | S _{AA} | Wt. |
|---------------------------------|-------------|-------------|--------------|--------------|---------------|-------------|---|---------------|----------------|---------------|---------------|--------------|----------------|-----------------|----------------|-----------------|------------|
| | 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. | mm in. | mm in. | kg lbs. |
| QAMC18A303S QAAMC18A303S | 3 3/8 in. | 22218 | 15.0 0.59 | 26.9 1.06 | 130.3 5.13 | 5.8 0.23 | 171.45 (+0/-0.05) 6.750 (+0/-0.002) | 87.6 3.45 | 36.6 1.44 | 110.2 4.34 | 112.3 4.42 | 65.8 2.59 | 7.4 0.29 | 21.3 0.84 | 102.4 4.03 | 131.6 5.18 | 11.8 26 |
| QAMC18A304S QAAMC18A304S | 3 1/4 in. | | | | | | | | | | | | | | | | |
| QAMC18A080S QAAMC18A080S | 80 mm | | | | | | | | | | | | | | | | |
| QAMC18A085S QAAMC18A085S | 85 mm | | | | | | | | | | | | | | | | |
| QAMC18A307S QAAMC18A307S | 3 7/8 in. | | | | | | | | | | | | | | | | |
| QAMC18A308S QAAMC18A308S | 3 1/2 in. | | | | | | | | | | | | | | | | |
| QAMC18A090S QAAMC18A090S | 90 mm | | | | | | | | | | | | | | | | |
| QAMC20A315S QAAMC20A315S | 3 15/16 in. | 22220 | 19.8 0.78 | 32.5 1.28 | 152.4 6.00 | 7.9 0.31 | 206.375 (+0/-0.05) 8.125 (+0/-0.002) | 105.2 4.14 | 41.4 1.63 | 128.3 5.05 | 130.3 5.13 | 75.4 2.97 | 11.4 0.45 | 22.6 0.89 | 116.6 4.59 | 150.9 5.94 | 14.5 32 |
| QAMC20A400S QAAMC20A400S | 4 in. | | | | | | | | | | | | | | | | |
| QAMC20A100S QAAMC20A100S | 100 mm | | | | | | | | | | | | | | | | |
| QAAMC22A110S | 110 mm | 22222 | 19.8 0.78 | 38.1 1.50 | 160.0 6.30 | 7.9 0.31 | 222.25 (+0/-0.08) 8.75 (+0/-0.003) | 108.5 4.27 | - | 133.6 5.26 | 135.6 5.34 | 79.5 3.13 | - | 25.1 0.99 | - | 158.8 6.25 | 18.1 40 |
| QAAMC22A407S | 4 7/8 in. | | | | | | | | | | | | | | | | |
| QAAMC22A408S | 4 1/2 in. | | | | | | | | | | | | | | | | |
| QAAMC22A115S | 115 mm | 22226 | 19.8 0.78 | 38.1 1.50 | 175.0 6.89 | 7.9 0.31 | 265.13 (+0/-0.08) 10.438 (+0/-0.003) | 141.7 5.58 | - | 165.4 6.51 | 167.4 6.59 | 94.5 3.72 | - | 23.6 0.93 | - | 189.0 7.44 | 18.1 40 |
| QAAMC26A125S | 125 mm | | | | | | | | | | | | | | | | |
| QAAMC26A415S | 4 15/16 in. | | | | | | | | | | | | | | | | |
| QAAMC26A500S | 5 in. | | | | | | | | | | | | | | | | |
| QAAMC26A130S | 130 mm | | | | | | | | | | | | | | | | |

⁽¹⁾Bearing part numbers use QA to designate single-collar units (use S_A and R_A dimensions) and QAA to designate double-collar units (use S_{AA} and R_{AA} dimensions).

QATU AND QAATU TAKE-UP BLOCKS



QA Single-Collar Unit

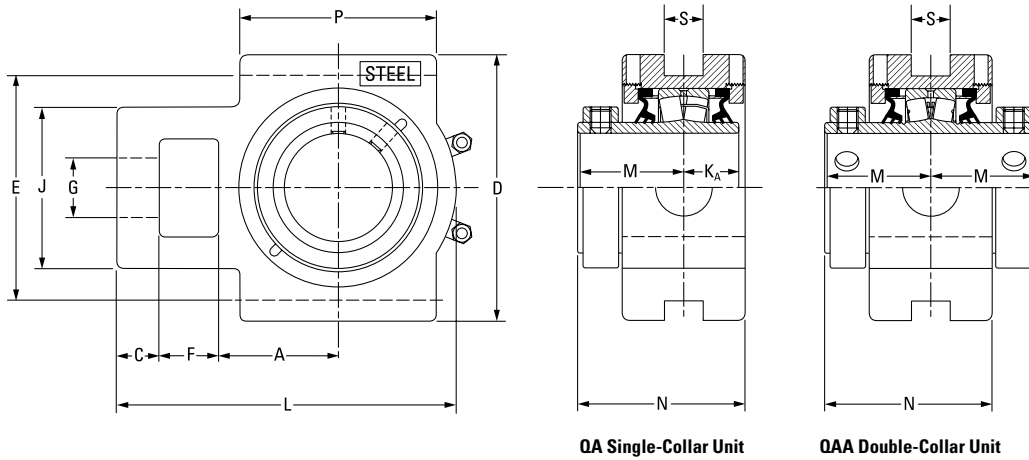
QAA Double-Collar Unit

| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | C | D | E | F | G | J | KA | L | M | N | P | S | Wt. |
|---------------------------------|-------------|-------------|--------------|--------------|---------------|---------------|--------------|--------------|---------------|--------------|---------------|--------------|--------------|---------------|--------------|------------|
| | 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. | mm in. | kg lbs. |
| QATU10A115S QAATU10A115S | 1 15/16 in. | 22210 | 54.1 2.13 | 19.1 0.75 | 120.7 4.75 | 101.6 4.00 | 26.9 1.06 | 26.9 1.06 | 73.2 2.88 | 25.4 1.00 | 153.4 6.04 | 47.5 1.87 | 75.7 2.98 | 88.9 3.50 | 17.5 0.69 | 7.7 17 |
| QATU10A200S QAATU10A200S | 2 in. | | | | | | | | | | | | | | | |
| QATU10A050S QAATU10A050S | 50 mm | | | | | | | | | | | | | | | |
| QATU11A203S QAATU11A203S | 2 3/16 in. | 22211 | 60.5 2.38 | 19.1 0.75 | 133.4 5.25 | 114.3 4.50 | 28.7 1.13 | 30.2 1.19 | 88.9 3.50 | 28.7 1.13 | 167.9 6.61 | 50.8 2.00 | 81.8 3.22 | 95.3 3.75 | 20.6 0.81 | 9.5 21 |
| QATU11A204S QAATU11A204S | 2 1/4 in. | | | | | | | | | | | | | | | |
| QATU11A055S QAATU11A055S | 55 mm | | | | | | | | | | | | | | | |
| QATU13A060S QAATU13A060S | 60 mm | 22213 | 69.9 2.75 | 22.4 0.88 | 149.4 5.88 | 130.3 5.13 | 33.3 1.31 | 35.1 1.38 | 95.3 3.75 | 31.5 1.24 | 193.8 7.63 | 54.6 2.15 | 91.2 3.59 | 120.7 4.75 | 26.9 1.06 | 12.2 27 |
| QATU13A207S QAATU13A207S | 2 7/16 in. | | | | | | | | | | | | | | | |
| QATU13A208S QAATU13A208S | 2 1/2 in. | | | | | | | | | | | | | | | |
| QATU13A065S QAATU13A065S | 65 mm | 22215 | 76.2 3.00 | 25.4 1.00 | 171.5 6.75 | 150.9 5.94 | 39.6 1.56 | 39.6 1.56 | 108.0 4.25 | 31.8 1.25 | 219.7 8.65 | 60.2 2.37 | 97.0 3.82 | 120.7 4.75 | 46.0 1.81 | 15.9 35 |
| QATU15A211S QAATU15A211S | 2 11/16 in. | | | | | | | | | | | | | | | |
| QATU15A212S QAATU15A212S | 2 3/4 in. | | | | | | | | | | | | | | | |
| QATU15A070S QAATU15A070S | 70 mm | | | | | | | | | | | | | | | |
| QATU15A215S QAATU15A215S | 2 15/16 in. | | | | | | | | | | | | | | | |
| QATU15A300S QAATU15A300S | 3 in. | | | | | | | | | | | | | | | |
| QATU15A075S QAATU15A075S | 75 mm | | | | | | | | | | | | | | | |

⁽¹⁾Bearing part numbers use QA to designate single-collar units and QAA to designate double-collar units.
NOTE: Please refer to page 206 for take-up frames.

Continued on next page.

QATU AND QAATU TAKE-UP BLOCKS – continued

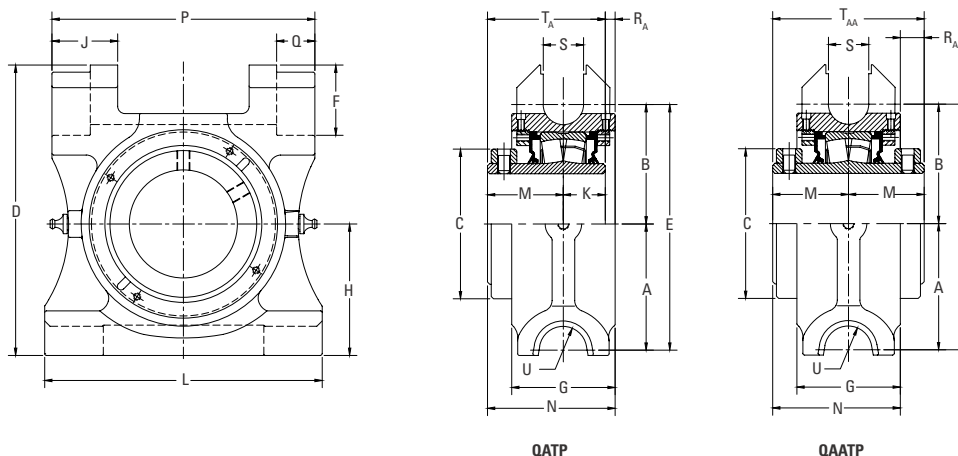


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| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | C | D | E | F | G | J | K _A | L | M | N | P | S | Wt. | | | | | | | | | | | | | | | |
|---------------------------------|-------------|-------------|---------------|--------------|----------------|----------------|--------------|--------------|---------------|----------------|----------------|--------------|---------------|---------------|--------------|-------------|-------|---------------|--------------|---------------|---------------|--------------|--------------|---------------|--------------|----------------|--------------|---------------|---------------|--------------|------------|
| | 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. | mm in. | kg lbs. | | | | | | | | | | | | | | | |
| QATU18A303S QAATU18A303S | 3 3/8 in. | 22218 | 92.2 3.63 | 25.4 1.00 | 193.8 7.63 | 173.0 6.81 | 46.0 1.81 | 47.8 1.88 | 124.0 4.88 | 36.6 1.44 | 257.0 10.12 | 65.8 2.59 | 107.2 4.22 | 158.8 6.25 | 46.0 1.81 | 20.0 44 | | | | | | | | | | | | | | | |
| QATU18A304S QAATU18A304S | 3 1/4 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QATU18A080S QAATU18A080S | 80 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QATU18A085S QAATU18A085S | 85 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QATU18A307S QAATU18A307S | 3 7/8 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QATU18A308S QAATU18A308S | 3 1/2 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QATU18A090S QAATU18A090S | 90 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QATU20A315S QAATU20A315S | 3 15/16 in. | | | | | | | | | | | | | | | | 22220 | 104.9 4.13 | 28.7 1.13 | 239.8 9.44 | 219.2 8.63 | 54.1 2.13 | 52.3 2.06 | 143.0 5.63 | 41.4 1.63 | 296.9 11.69 | 75.4 2.97 | 121.7 4.79 | 177.8 7.00 | 52.3 2.06 | 26.3 58 |
| QATU20A400S QAATU20A400S | 4 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QATU20A100S QAATU20A100S | 100 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QAATU22A110S | 110 mm | 22222 | 128.5 5.06 | 38.1 1.50 | 263.7 10.38 | 241.3 9.50 | 54.1 2.13 | 54.1 2.13 | 162.1 6.38 | - | 341.4 13.44 | 79.5 3.13 | 143.8 5.66 | 199.9 7.87 | 52.3 2.06 | 36.4 80 | | | | | | | | | | | | | | | |
| QAATU22A407S | 4 7/8 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QAATU22A408S | 4 1/2 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QAATU22A115S | 115 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QAATU26A125S | 125 mm | 22226 | 134.9 5.31 | 63.5 2.50 | 285.8 11.25 | 260.4 10.25 | 63.5 2.50 | 60.5 2.38 | 177.8 7.00 | - | 396.7 15.62 | 94.5 3.72 | 150.9 5.94 | 228.6 9.00 | 52.3 2.06 | 60.8 134 | | | | | | | | | | | | | | | |
| QAATU26A415S | 4 15/16 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QAATU26A500S | 5 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QAATU26A130S | 130 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

⁽¹⁾Bearing part numbers use QA to designate single-collar units and QAA to designate double-collar units.
NOTE: Please refer to page 206 for take-up frames.

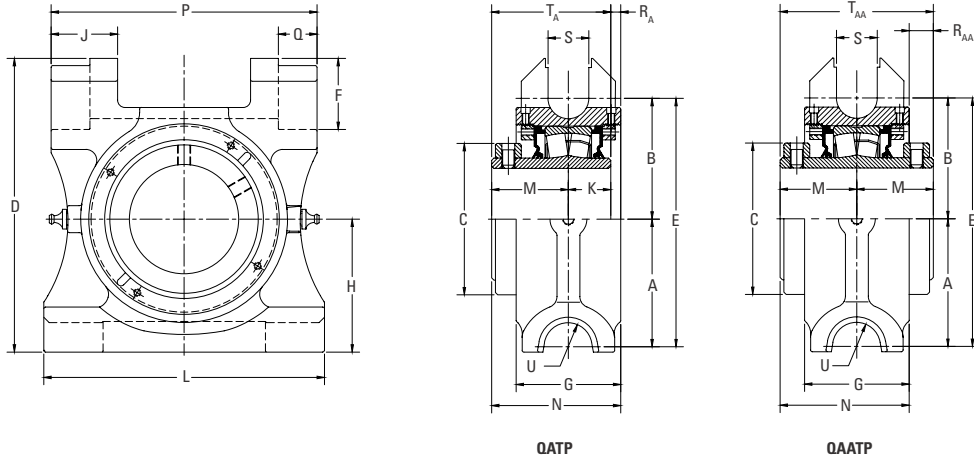
QATP AND QAATP TOP PULL TAKE-UP BLOCKS



| Bearing Part No. | Shaft Dia. | Bearing No. | A | B | C | D | E | F | G | H | J | K | L | M | N | P | Q | R _A | R _{AA} | S | T _A | T _{AA} | U | |
|-----------------------------|--------------|-------------|---------------------|---------------------|----------------------|----------------------|----------------------|---------------------|---------------------|----------------------|---------------------|---------------------|----------------------|---------------------|----------------------|----------------------|---------------------|--------------------|---------------------|---------------------|---------------------|----------------------|---------------------|--|
| | 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. | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. | kg lbs. | |
| QATP10A115S QAATP10A115S | 1 1/8 in. | 22210 | | | | | | | | | | | | | | | | | | | | | | |
| QATP10A200S QAATP10A200S | 2 in. | | 71.4 2.81 | 60.5 2.38 | 73.0 2.88 | 163.6 6.44 | 131.8 5.19 | 42.2 1.66 | 62.7 2.47 | 77.8 3.06 | 41.9 1.65 | 25.0 0.98 | 165.1 6.50 | 48.0 1.89 | 79.3 3.12 | 152.4 6.00 | 20.6 0.81 | 6.3 0.25 | 16.7 0.66 | 22.4 0.88 | 73.0 2.87 | 96.0 3.78 | 20.6 0.81 | |
| QATP10A050S QAATP10A050S | 50 mm | | | | | | | | | | | | | | | | | | | | | | | |
| QATP11A203S QAATP11A203S | 2 3/8 in. | 22211 | | | | | | | | | | | | | | | | | | | | | | |
| QATP11A204S QAATP11A204S | 2 1/4 in. | | 82.6 3.25 | 72.8 2.87 | 82.6 3.25 | 193.8 7.63 | 158.8 6.25 | 49.3 1.94 | 69.9 2.75 | 88.9 3.50 | 44.4 1.75 | 28.7 1.13 | 190.6 7.50 | 50.8 2.00 | 88.5 3.49 | 177.8 7.0 | 26.9 1.06 | 9.0 0.36 | 13.1 0.51 | 98.4 1.12 | 79.5 3.13 | 101.6 4.0 | 20.6 0.81 | |
| QATP11A055S QAATP11A055S | 55 mm | | | | | | | | | | | | | | | | | | | | | | | |
| QATP13A207S QAATP13A207S | 2 7/8 in. | 22213 | | | | | | | | | | | | | | | | | | | | | | |
| QATP13A208S QAATP13A208S | 2 1/2 in. | | 96.8 3.81 | 84.6 3.33 | 96.6 3.81 | 210.3 8.28 | 181.4 7.14 | 47.8 1.88 | 81.0 3.19 | 97.5 3.84 | 44.5 1.75 | 31.5 1.24 | 215.9 8.50 | 54.5 2.15 | 95.0 3.74 | 203.2 8.00 | 26.9 1.06 | 9.0 0.35 | 14.0 0.55 | 28.4 1.12 | 86.0 3.39 | 109.0 4.29 | 20.6 0.81 | |
| QATP13A060S QAATP13A060S | 60 mm | | | | | | | | | | | | | | | | | | | | | | | |
| QATP15A211S QAATP15A211S | 2 11/16 in. | 22215 | | | | | | | | | | | | | | | | | | | | | | |
| QATP15A212S QAATP15A212S | 2 3/4 in. | | | | | | | | | | | | | | | | | | | | | | | |
| QATP15A070S QAATP15A070S | 70 mm | | 97.0 3.82 | 84.1 3.31 | 108.9 4.29 | 215.9 8.50 | 181.1 7.13 | 49.3 1.94 | 81.0 3.19 | 101.4 3.99 | 44.4 1.75 | 31.8 1.25 | 215.9 8.50 | 60.2 2.37 | 100.7 3.96 | 203.2 8.00 | 26.9 1.06 | 8.7 0.34 | 19.7 0.78 | 28.4 1.12 | 92.0 3.62 | 120.4 4.74 | 20.6 0.81 | |
| QATP15A215S QAATP15A215S | 2 15/16 in. | | | | | | | | | | | | | | | | | | | | | | | |
| QATP15A300S QAATP15A300S | 3 in. | | | | | | | | | | | | | | | | | | | | | | | |
| QATP15A075S QAATP15A075S | 75 mm | | | | | | | | | | | | | | | | | | | | | | | |

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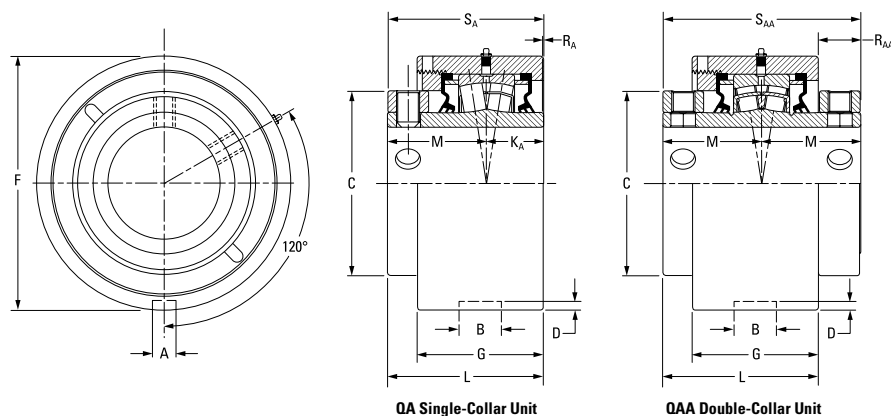
QATP AND QAATP TOP PULL TAKE-UP BLOCKS – continued



Continued from previous page.

| Bearing Part No. | Shaft Dia. | Bearing No. | A | B | C | D | E | F | G | H | J | K | L | M | N | P | Q | R _A | R _{AA} | S | T _A | T _{AA} | U | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|-------------|-------------|---------------|---------------|---------------|---------------|---------------|--------------|--------------|---------------|--------------|--------------|---------------|--------------|---------------|---------------|--------------|----------------|-----------------|--------------|----------------|-----------------|--------------|-------|---------------|---------------|---------------|----------------|---------------|--------------|--------------|---------------|--------------|--------------|----------------|--------------|---------------|----------------|--------------|-------------|--------------|--------------|---------------|---------------|--------------|
| | 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. | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. | kg lbs. | | | | | | | | | | | | | | | | | | | | | | |
| QATP18A303S QAATP18A303S | 3 3/8 in. | 22218 | 109.7 4.32 | 103.9 4.09 | 130.2 5.13 | 252.5 9.94 | 213.6 8.41 | 61.3 2.41 | 90.0 3.54 | 114.3 4.50 | 57.1 2.25 | 36.5 1.44 | 241.3 9.50 | 65.9 2.59 | 110.9 4.37 | 228.6 9.00 | 33.3 1.31 | 8.6 0.34 | 20.8 0.82 | 35.1 1.38 | 102.4 4.03 | 131.8 5.19 | 20.6 0.81 | | | | | | | | | | | | | | | | | | | | | | |
| QATP18A304S QAATP18A304S | 3 1/4 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QATP18A080S QAATP18A080S | 80 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QATP18A085S QAATP18A085S | 85 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QATP18A307S QAATP18A307S | 3 7/8 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QATP18A308S QAATP18A308S | 3 1/2 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QATP18A090S QAATP18A090S | 90 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QATP20A311S QAATP20A311S | 3 11/16 in. | | | | | | | | | | | | | | | | | | | | | | | 22220 | 121.0 4.76 | 117.6 4.63 | 152.4 6.00 | 289.1 11.38 | 234.9 9.25 | 63.5 2.50 | 79.5 3.13 | 139.7 5.50 | 58.7 2.31 | 41.3 1.63 | 279.4 11.00 | 75.4 2.97 | 126.1 4.97 | 266.7 10.50 | 33.3 1.31 | 9.4 0.37 | 24.7 0.97 | 35.1 1.38 | 116.7 4.59 | 150.8 5.94 | 20.6 0.81 |
| QATP20A312S QAATP20A312S | 3 3/4 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QATP20A315S QAATP20A315S | 3 15/16 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QATP20A400S QAATP20A400S | 4 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QATP20A100S QAATP20A100S | 100 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

QAMH AND QAAMH HANGER BLOCKS



| Bearing Part No. | Shaft Dia. | Bearing No. | A | B | C | D | E | F | G | J | K _A | L | M | R _A | R _{AA} | S _A | S _{AA} | Wt. |
|-----------------------------|------------|-------------|---------------|----------------|---------------|---------------|--------------|--------------|--------------|------------|----------------|--------------|--------------|----------------|-----------------|----------------|-----------------|------------|
| | mm in. | | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. | in. | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. | kg lbs. |
| QAMH15A211S QAAMH15A211S | 2 1/16 in. | 22215 | 131.8 5.19 | 212.9 8.38 | 109.0 4.29 | 162.1 6.38 | 50.8 2.00 | 50.8 2.00 | 69.9 2.75 | 1-8UNC | 31.8 1.25 | 91.9 3.62 | 60.2 2.37 | 0.0 0.00 | 28.4 1.12 | 91.9 3.62 | 120.7 4.75 | 10.0 22 |
| QAMH15A212S QAAMH15A212S | 2 3/4 in. | | | | | | | | | | | | | | | | | |
| QAMH15A070S QAAMH15A070S | 70 mm | | | | | | | | | | | | | | | | | |
| QAMH15A215S QAAMH15A215S | 2 1/16 in. | | | | | | | | | | | | | | | | | |
| QAMH15A300S QAAMH15A300S | 3 in. | | | | | | | | | | | | | | | | | |
| QAMH15A075S QAAMH15A075S | 75 mm | | | | | | | | | | | | | | | | | |
| QAMH18A303S QAAMH18A303S | 3 3/16 in. | 22218 | 160.3 6.31 | 260.4 10.25 | 130.3 5.13 | 200.2 7.88 | 63.5 2.50 | 76.2 3.00 | 76.2 3.00 | 1 1/4-7UNC | 36.6 1.44 | 99.3 3.91 | 65.8 2.59 | 3.0 0.12 | 32.3 1.27 | 102.4 4.03 | 131.6 5.18 | 16.3 36 |
| QAMH18A304S QAAMH18A304S | 3 1/4 in. | | | | | | | | | | | | | | | | | |
| QAMH18A080S QAAMH18A080S | 80 mm | | | | | | | | | | | | | | | | | |
| QAMH18A085S QAAMH18A085S | 85 mm | | | | | | | | | | | | | | | | | |
| QAMH18A307S QAAMH18A307S | 3 7/16 in. | | | | | | | | | | | | | | | | | |
| QAMH18A308S QAAMH18A308S | 3 1/2 in. | | | | | | | | | | | | | | | | | |
| QAMH18A090S QAAMH18A090S | 90 mm | | | | | | | | | | | | | | | | | |



EC SERIES

The reduced eccentric offset of our EC series locking collar results in a secure shaft lock that is designed not to release from a properly prepared shaft. EC series housed units also are suitable for reversing applications.

The following topics are covered within this section:

| | |
|--|-----|
| Introduction | 150 |
| QMP Two-Bolt Pillow Blocks | 151 |
| QMPL Two-Bolt Pillow Blocks | 152 |
| QMPF Four-Bolt Pillow Blocks | 153 |
| QMPR Four-Bolt Pillow Blocks | 154 |
| QMPH/QMPG Four-Bolt Pillow Blocks | 155 |
| QMPX 5000 Series Four-Bolt Pillow Blocks | 156 |
| QMPXT 5000 Series Two-Bolt Pillow Blocks | 158 |
| QMSN SN-Style Two-Bolt Pillow Blocks | 159 |
| QMC Piloted Flange Cartridges | 161 |
| QMCW Piloted Flange Cartridges | 162 |
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| QMMC Cartridge Blocks | 170 |
| QMTU Take-Up Blocks | 172 |
| QMTU Top Pull Take-Up Blocks | 173 |
| QMMH Hanger Blocks | 174 |

EC SERIES

Fig. 49. EC series eccentric lock.

YOU HAVE CHOICES

For the EC series, you can select from many seal configurations and housing styles, which are shown on page 15.

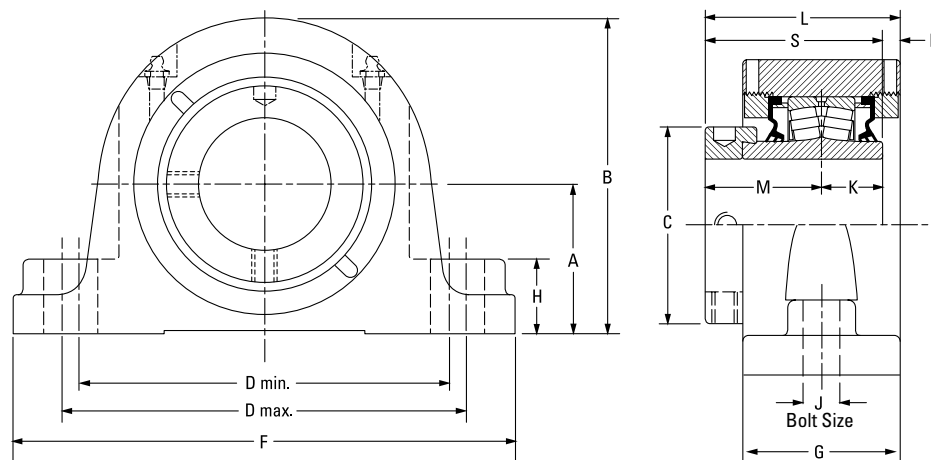
HOUSINGS

- Two-bolt pillow blocks
- Four-bolt pillow blocks
- Flange blocks
- Piloted flange cartridges
- Take-up blocks
- Cartridge blocks
- Hanger blocks

SEALS

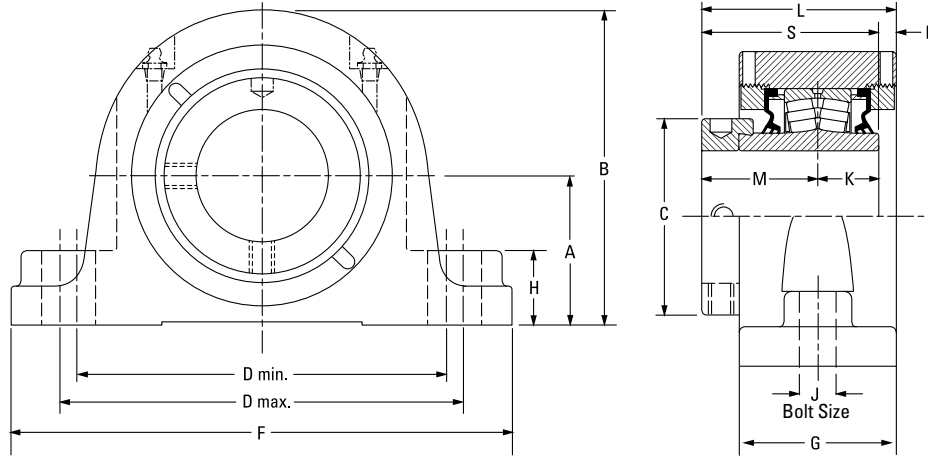
- Labyrinth: DuPont™ Teflon® (T)
- Triple-lip: nitrile rubber (M), urethane (O) and Viton® (N)
- Double-lip: nitrile rubber (B) and Viton (C)
- Steel and urethane closed-end covers (CS)
- Steel and urethane open-end covers (CJ) with:
 - DuPont Teflon (T)
 - Triple-lip seal (DR)
 - V-ring seal (VR)
- Piloted flange cartridge backing plates (HSY) with:
 - Triple-lip seal (DR)
- Flange block backing plates (UFP)
 - V-ring (VR)

QMP TWO-BOLT PILLOW BLOCKS



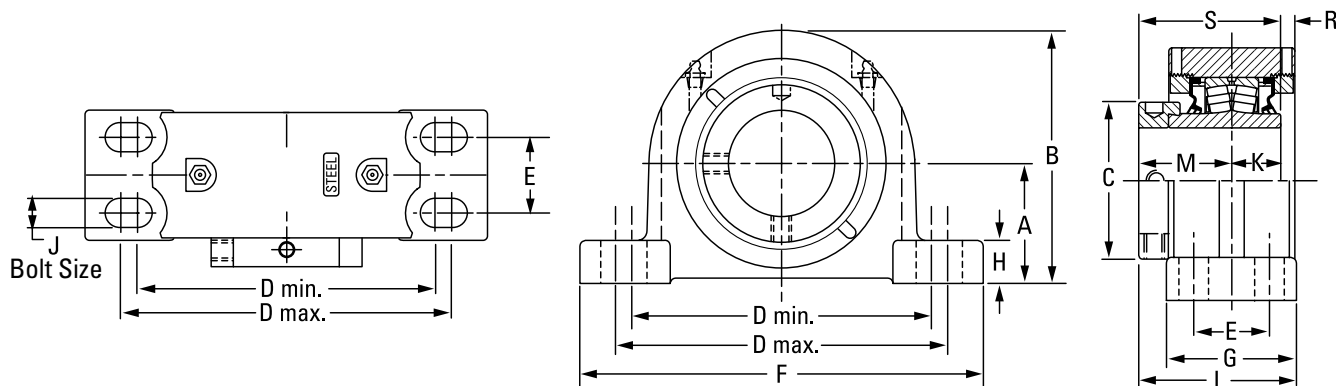
| Bearing Part No. | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | F | G | H | J | K | L | M | R | S | Wt. |
|------------------|-------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| | 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. | mm in. | mm in. | kg lbs. |
| QMP08J035S | 35 mm | 22208 | 47.8 | 94.7 | 60.5 | 119.1 | 152.4 | 174.8 | 57.2 | 25.4 | 12 | 25.4 | 73.2 | 44.5 | 3.3 | 69.9 | 4.1 |
| QMP08J107S | 1 7/16 in. | | 1.88 | 3.73 | 2.38 | 4.69 | 6.00 | 6.88 | 2.25 | 1.00 | 1/2 | 1.00 | 2.88 | 1.75 | 0.13 | 2.75 | 9 |
| QMP08J108S | 1 1/2 in. | 22208 | 54.1 | 101.1 | 60.5 | 119.1 | 165.1 | 200.2 | 57.2 | 25.4 | 12 | 25.4 | 73.2 | 44.5 | 3.3 | 69.9 | 4.1 |
| | | | 2.13 | 3.98 | 2.38 | 4.69 | 6.50 | 7.88 | 2.25 | 1.00 | 1/2 | 1.00 | 2.88 | 1.75 | 0.13 | 2.75 | 9 |
| QMP09J111S | 1 1/4 in. | 22209 | 54.1 | 104.9 | 66.5 | 144.8 | 165.1 | 200.2 | 60.2 | 31.8 | 12 | 25.4 | 77.7 | 47.8 | 4.8 | 73.2 | 4.5 |
| | | | 2.13 | 4.13 | 2.62 | 5.70 | 6.50 | 7.88 | 2.37 | 1.25 | 1/2 | 1.00 | 3.06 | 1.88 | 0.19 | 2.88 | 10 |
| QMP09J040S | 40 mm | 22209 | 57.2 | 108.0 | 66.5 | 158.8 | 180.8 | 225.6 | 62.0 | 31.8 | 16 | 25.4 | 78.7 | 47.8 | 5.8 | 73.2 | 4.5 |
| QMP09J112S | 1 3/4 in. | | 2.25 | 4.25 | 2.62 | 6.25 | 7.12 | 8.88 | 2.44 | 1.25 | 5/8 | 1.00 | 3.10 | 1.88 | 0.23 | 2.88 | 10 |
| QMP09J045S | 45 mm | | | | | | | | | | | | | | | | |
| QMP10J115S | 1 1/2 in. | 22210 | 57.2 | 122.2 | 71.4 | 152.4 | 181.1 | 225.6 | 62.0 | 31.8 | 16 | 25.4 | 79.0 | 47.5 | 6.1 | 72.9 | 5.9 |
| QMP10J200S | 2 in. | | 2.25 | 4.81 | 2.81 | 6.00 | 7.13 | 8.88 | 2.44 | 1.25 | 5/8 | 1.00 | 3.11 | 1.87 | 0.24 | 2.87 | 13 |
| QMP10J050S | 50 mm | | | | | | | | | | | | | | | | |
| QMP11J203S | 2 3/8 in. | 22211 | 63.5 | 133.4 | 75.9 | 165.1 | 200.2 | 244.6 | 66.8 | 31.8 | 16 | 28.7 | 84.1 | 50.8 | 4.8 | 79.5 | 7.7 |
| QMP11J204S | 2 1/2 in. | | 2.50 | 5.25 | 2.99 | 6.50 | 7.88 | 9.63 | 2.63 | 1.25 | 5/8 | 1.13 | 3.31 | 2.00 | 0.19 | 3.13 | 17 |
| QMP11J055S | 55 mm | | | | | | | | | | | | | | | | |
| QMP13J060S | 60 mm | 22213 | 69.9 | 147.3 | 91.9 | 174.8 | 219.2 | 260.4 | 73.7 | 35.1 | 16 | 31.5 | 91.2 | 54.1 | 5.3 | 85.6 | 10.0 |
| QMP13J207S | 2 7/16 in. | | 2.75 | 5.80 | 3.62 | 6.88 | 8.63 | 10.25 | 2.90 | 1.38 | 5/8 | 1.24 | 3.59 | 2.13 | 0.21 | 3.37 | 22 |
| QMP13J208S | 2 1/2 in. | | | | | | | | | | | | | | | | |
| QMP13J065S | 65 mm | 22215 | 79.5 | 164.3 | 101.9 | 200.2 | 244.6 | 295.4 | 76.2 | 35.1 | 20 | 31.8 | 98.3 | 60.2 | 6.4 | 91.9 | 12.7 |
| QMP15J211S | 2 1/4 in. | | 3.13 | 6.47 | 4.01 | 7.88 | 9.63 | 11.63 | 3.00 | 1.38 | 3/4 | 1.25 | 3.87 | 2.37 | 0.25 | 3.62 | 28 |
| QMP15J212S | 2 3/4 in. | | | | | | | | | | | | | | | | |
| QMP15J070S | 70 mm | 22218 | 95.3 | 195.3 | 120.9 | 238.3 | 285.8 | 342.9 | 86.6 | 47.8 | 24 | 36.6 | 109.2 | 65.8 | 7.1 | 102.4 | 20.4 |
| QMP15J215S | 2 15/16 in. | | 3.75 | 7.69 | 4.76 | 9.38 | 11.25 | 13.50 | 3.41 | 1.88 | 7/8 | 1.44 | 4.30 | 2.59 | 0.28 | 4.03 | 45 |
| QMP18J303S | 3 3/16 in. | | | | | | | | | | | | | | | | |
| QMP18J304S | 3 1/4 in. | 22220 | 104.9 | 209.8 | 152.4 | 255.0 | 320.0 | 362.0 | 94.7 | 50.8 | 24 | 41.4 | 122.9 | 75.2 | 6.1 | 116.6 | 26.8 |
| QMP18J080S | 80 mm | | 4.13 | 8.26 | 6.00 | 10.04 | 12.60 | 14.25 | 3.73 | 2.00 | 1 | 1.63 | 4.84 | 2.96 | 0.24 | 4.59 | 59 |
| QMP18J085S | 85 mm | | | | | | | | | | | | | | | | |
| QMP18J307S | 3 7/16 in. | | | | | | | | | | | | | | | | |
| QMP18J308S | 3 1/2 in. | | | | | | | | | | | | | | | | |
| QMP18J090S | 90 mm | | | | | | | | | | | | | | | | |
| QMP20J311S | 3 1/4 in. | | | | | | | | | | | | | | | | |
| QMP20J312S | 3 3/4 in. | | | | | | | | | | | | | | | | |
| QMP20J315S | 3 15/16 in. | | | | | | | | | | | | | | | | |
| QMP20J400S | 4 in. | | | | | | | | | | | | | | | | |
| QMP20J100S | 100 mm | | | | | | | | | | | | | | | | |

QMPL TWO-BOLT PILLOW BLOCKS



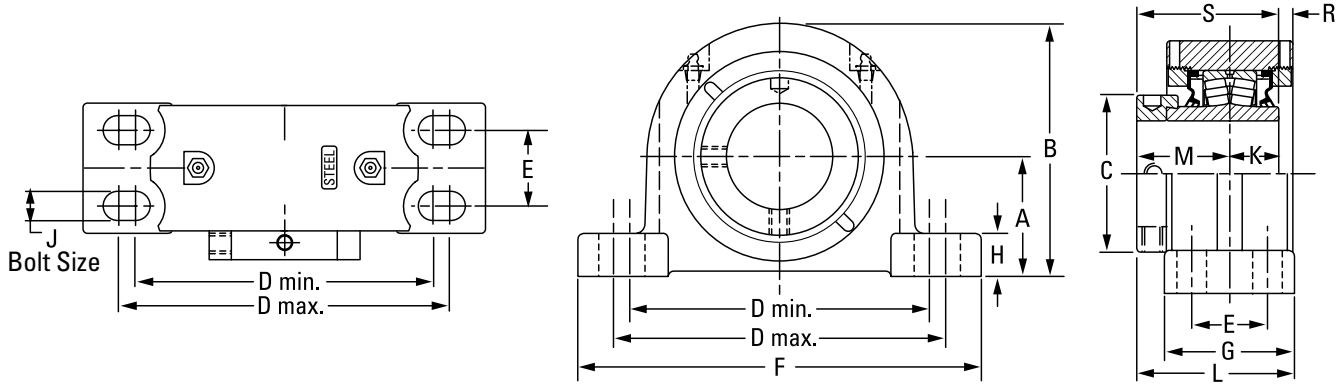
| Bearing Part No. | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | F | G | H | J | K | L | M | R | S | Wt. |
|------------------|---------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | 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. | mm in. | mm in. |
| QMPL08J035S | 35 mm | 22208 | 47.8 | 94.7 | 60.5 | 119.1 | 152.4 | 174.8 | 57.2 | 25.4 | 12 | 25.4 | 73.2 | 44.5 | 3.3 | 69.9 | 4.1 |
| QMPL08J107S | 1 7/16 in. | | 1.88 | 3.73 | 2.38 | 4.69 | 6.00 | 6.88 | 2.25 | 1.00 | 1/2 | 1.00 | 2.88 | 1.75 | 0.13 | 2.75 | 9 |
| QMPL08J108S | 1 1/2 in. | | | | | | | | | | | | | | | | |
| QMPL09J040S | 40 mm | 22209 | 54.1 | 104.9 | 66.5 | 133.4 | 146.1 | 181.1 | 60.2 | 31.8 | 12 | 25.4 | 77.7 | 47.8 | 4.8 | 73.2 | 4.5 |
| QMPL09J111S | 1 11/16 in. | | 2.13 | 4.13 | 2.62 | 5.25 | 5.75 | 7.13 | 2.37 | 1.25 | 1/2 | 1.00 | 3.06 | 1.88 | 0.19 | 2.88 | 10 |
| QMPL09J112S | 1 3/4 in. | | | | | | | | | | | | | | | | |
| QMPL09J045S | 45 mm | 22210 | 57.2 | 122.2 | 71.4 | 150.6 | 161.5 | 212.9 | 62.0 | 31.8 | 16 | 25.4 | 79.0 | 47.5 | 6.1 | 72.9 | 5.9 |
| QMPL10J115S | 1 15/16 in. | | 2.25 | 4.81 | 2.81 | 5.93 | 6.36 | 8.38 | 2.44 | 1.25 | 3/8 | 1.00 | 3.11 | 1.87 | 0.24 | 2.87 | 13 |
| QMPL10J200S | 2 in. | | | | | | | | | | | | | | | | |
| QMPL10J050S | 50 mm | 22211 | 63.5 | 133.4 | 75.9 | 165.1 | 179.3 | 225.6 | 65.5 | 31.8 | 16 | 28.4 | 83.3 | 50.8 | 4.3 | 79.2 | 7.7 |
| QMPL11J204S | 2 1/4 in. | | 2.50 | 5.25 | 2.99 | 6.50 | 7.06 | 8.88 | 2.58 | 1.25 | 3/8 | 1.12 | 3.28 | 2.00 | 0.17 | 3.12 | 17 |
| QMPL11J055S | 55 mm | | | | | | | | | | | | | | | | |
| QMPL13J060S | 60 mm | 22213 | 69.9 | 147.3 | 91.9 | 173.0 | 189.0 | 235.0 | 73.7 | 35.1 | 16 | 31.5 | 90.9 | 54.1 | 5.3 | 85.6 | 10.0 |
| QMPL13J207S | 2 7/16 in. | | 2.75 | 5.80 | 3.62 | 6.81 | 7.44 | 9.25 | 2.90 | 1.38 | 3/8 | 1.24 | 3.58 | 2.13 | 0.21 | 3.37 | 22 |
| QMPL13J208S | 2 1/2 in. | | | | | | | | | | | | | | | | |
| QMPL13J065S | 65 mm | 22215 | 82.6 | 167.4 | 101.9 | 195.6 | 213.4 | 265.2 | 76.2 | 35.1 | 20 | 31.8 | 98.3 | 60.2 | 6.4 | 91.9 | 12.7 |
| QMPL15J211S | 2 11/16 in. | | 3.25 | 6.59 | 4.01 | 7.70 | 8.40 | 10.44 | 3.00 | 1.38 | 3/4 | 1.25 | 3.87 | 2.37 | 0.25 | 3.62 | 28 |
| QMPL15J212S | 2 3/4 in. | | | | | | | | | | | | | | | | |
| QMPL15J070S | 70 mm | 22218 | 95.3 | 195.3 | 120.9 | 235.0 | 273.1 | 330.2 | 86.6 | 47.8 | 24 | 36.6 | 109.2 | 65.8 | 7.1 | 102.4 | 20.4 |
| QMPL15J215S | 2 15/16 in. | | 3.75 | 7.69 | 4.76 | 9.25 | 10.75 | 13.00 | 3.41 | 1.88 | 7/8 | 1.44 | 4.30 | 2.59 | 0.28 | 4.03 | 45 |
| QMPL15J075S | 75 mm | | | | | | | | | | | | | | | | |
| QMPL18J303S | 3 3/16 in. | 22220 | 108.0 | 212.9 | 152.4 | 255.0 | 320.0 | 362.0 | 94.7 | 53.8 | 24 | 41.4 | 122.9 | 75.2 | 6.1 | 116.6 | 26.8 |
| QMPL18J304S | 3 1/4 in. | | 4.25 | 8.38 | 6.00 | 10.04 | 12.60 | 14.25 | 3.73 | 2.12 | 1 | 1.63 | 4.84 | 2.96 | 0.24 | 4.59 | 59 |
| QMPL18J080S | 80 mm | | | | | | | | | | | | | | | | |
| QMPL18J085S | 85 mm | | | | | | | | | | | | | | | | |
| QMPL18J307S | 3 7/16 in. | | | | | | | | | | | | | | | | |
| QMPL18J308S | 3 1/2 in. | | | | | | | | | | | | | | | | |
| QMPL18J090S | 90 mm | | | | | | | | | | | | | | | | |
| QMPL20J311S | 3 11/16 in. | | | | | | | | | | | | | | | | |
| QMPL20J312S | 3 3/4 in. | | | | | | | | | | | | | | | | |
| QMPL20J315S | 3 15/16 in. | | | | | | | | | | | | | | | | |
| QMPL20J400S | 4 in. | | | | | | | | | | | | | | | | |
| QMPL20J100S | 100 mm | | | | | | | | | | | | | | | | |

QMPF FOUR-BOLT PILLOW BLOCKS



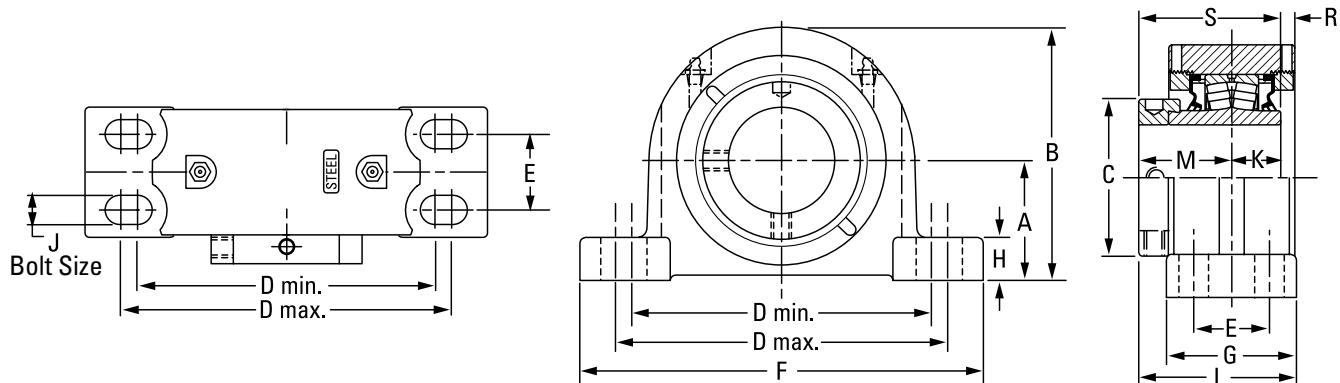
| Bearing Part No. | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | E | F | G | H | J | K | L | M | R | S | Wt. |
|------------------|-------------|-------------|---------------|----------------|---------------|----------------|----------------|----------------|----------------|---------------|--------------|-----------|--------------|---------------|---------------|---------------|---------------|--------------|
| | 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. | mm in. | mm in. | mm in. | kg lbs. |
| QMPF13J060S | 60 mm | 22213 | 69.9 2.75 | 147.3 5.80 | 91.9 3.62 | 174.8 6.88 | 193.8 7.63 | 44.5 1.75 | 235.0 9.25 | 76.2 3.00 | 24.9 0.98 | 16 5/8 | 31.5 1.24 | 92.2 3.63 | 54.1 2.13 | 5.3 0.21 | 85.6 3.37 | 9.1 20 |
| QMPF13J207S | 2 7/16 in. | | | | | | | | | | | | | | | | | |
| QMPF13J208S | 2 1/2 in. | | | | | | | | | | | | | | | | | |
| QMPF13J065S | 65 mm | 22215 | 82.6 3.25 | 167.6 6.60 | 101.9 4.01 | 193.0 7.60 | 231.1 9.10 | 47.8 1.88 | 265.2 10.44 | 79.5 3.13 | 32.8 1.29 | 16 5/8 | 31.8 1.25 | 99.8 3.93 | 60.2 2.37 | 6.1 0.24 | 91.9 3.62 | 12.2 27 |
| QMPF15J211S | 2 1/16 in. | | | | | | | | | | | | | | | | | |
| QMPF15J212S | 2 3/4 in. | | | | | | | | | | | | | | | | | |
| QMPF15J070S | 70 mm | 22218 | 95.3 3.75 | 195.3 7.69 | 120.9 4.76 | 225.6 8.88 | 276.4 10.88 | 50.8 2.00 | 312.4 12.30 | 95.3 3.75 | 39.6 1.56 | 20 3/4 | 36.6 1.44 | 113.3 4.46 | 65.8 2.59 | 8.1 0.32 | 102.4 4.03 | 22.2 49 |
| QMPF15J215S | 2 15/16 in. | | | | | | | | | | | | | | | | | |
| QMPF15J300S | 3 in. | | | | | | | | | | | | | | | | | |
| QMPF15J075S | 75 mm | 22220 | 108.0 4.25 | 223.0 8.78 | 152.4 6.00 | 276.4 10.88 | 339.9 13.38 | 57.2 2.25 | 378.0 14.88 | 109.5 4.31 | 35.6 1.40 | 20 3/4 | 41.4 1.63 | 130.3 5.13 | 75.2 2.96 | 9.1 0.36 | 116.6 4.59 | 30.4 67 |
| QMPF18J303S | 3 3/16 in. | | | | | | | | | | | | | | | | | |
| QMPF18J304S | 3 1/4 in. | | | | | | | | | | | | | | | | | |
| QMPF18J080S | 80 mm | 22222 | 120.7 4.75 | 233.4 9.19 | 160.0 6.30 | 301.8 11.88 | 368.3 14.50 | 63.5 2.50 | 409.7 16.13 | 120.7 4.75 | 40.1 1.58 | 20 3/4 | 46.5 1.83 | 154.4 6.08 | 94.0 3.70 | 4.3 0.17 | 140.5 5.53 | 37.2 82 |
| QMPF18J085S | 85 mm | | | | | | | | | | | | | | | | | |
| QMPF18J307S | 3 7/16 in. | | | | | | | | | | | | | | | | | |
| QMPF18J308S | 3 1/2 in. | 22226 | 139.7 5.50 | 279.7 11.01 | 175.0 6.89 | 349.3 13.75 | 403.4 15.88 | 69.9 2.75 | 444.5 17.5 | 128.0 5.04 | 39.1 1.54 | 24 7/8 | 58.7 2.31 | 158.8 6.25 | 94.7 3.73 | -0.8 -0.03 | 153.4 6.04 | 60.8 134 |
| QMPF18J090S | 90 mm | | | | | | | | | | | | | | | | | |
| QMPF20J311S | 3 11/16 in. | | | | | | | | | | | | | | | | | |
| QMPF20J312S | 3 3/4 in. | 23230 | 169.9 6.69 | 330.2 13.00 | 205.0 8.07 | 441.5 17.38 | 485.9 19.13 | 95.3 3.75 | 558.8 22.00 | 171.5 6.75 | 76.2 3.00 | 24 1 | 75.9 2.99 | 201.7 7.94 | 116.1 4.57 | 6.6 0.26 | 192.0 7.56 | 113.4 250 |
| QMPF20J315S | 3 15/16 in. | | | | | | | | | | | | | | | | | |
| QMPF20J400S | 4 in. | | | | | | | | | | | | | | | | | |
| QMPF20J100S | 100 mm | 23234 | 190.5 7.50 | 390.7 15.38 | 235.0 9.25 | 530.4 20.88 | 600.2 23.63 | 117.5 4.625 | 660.4 26.00 | 190.5 7.50 | 63.5 2.50 | 24 1 | 85.1 3.35 | 224.3 8.83 | 129.0 5.08 | 5.6 0.22 | 214.1 8.43 | 170.1 375 |
| QMPF22J110S | 110 mm | | | | | | | | | | | | | | | | | |
| QMPF22J407S | 4 7/16 in. | | | | | | | | | | | | | | | | | |
| QMPF22J408S | 4 1/2 in. | 180 mm | 190.5 7.50 | 390.7 15.38 | 235.0 9.25 | 530.4 20.88 | 600.2 23.63 | 117.5 4.625 | 660.4 26.00 | 190.5 7.50 | 63.5 2.50 | 24 1 | 85.1 3.35 | 224.3 8.83 | 129.0 5.08 | 5.6 0.22 | 214.1 8.43 | 170.1 375 |
| QMPF26J125S | 125 mm | | | | | | | | | | | | | | | | | |
| QMPF26J415S | 4 15/16 in. | | | | | | | | | | | | | | | | | |
| QMPF26J500S | 5 in. | 140 mm | 169.9 6.69 | 330.2 13.00 | 205.0 8.07 | 441.5 17.38 | 485.9 19.13 | 95.3 3.75 | 558.8 22.00 | 171.5 6.75 | 76.2 3.00 | 24 1 | 75.9 2.99 | 201.7 7.94 | 116.1 4.57 | 6.6 0.26 | 192.0 7.56 | 113.4 250 |
| QMPF26J130S | 130 mm | | | | | | | | | | | | | | | | | |
| QMPF30J507S | 5 7/16 in. | | | | | | | | | | | | | | | | | |
| QMPF30J508S | 5 1/2 in. | 170 mm | 190.5 7.50 | 390.7 15.38 | 235.0 9.25 | 530.4 20.88 | 600.2 23.63 | 117.5 4.625 | 660.4 26.00 | 190.5 7.50 | 63.5 2.50 | 24 1 | 85.1 3.35 | 224.3 8.83 | 129.0 5.08 | 5.6 0.22 | 214.1 8.43 | 170.1 375 |
| QMPF30J140S | 140 mm | | | | | | | | | | | | | | | | | |
| QMPF30J151S | 5 15/16 in. | | | | | | | | | | | | | | | | | |
| QMPF30J600S | 6 in. | 150 mm | 190.5 7.50 | 390.7 15.38 | 235.0 9.25 | 530.4 20.88 | 600.2 23.63 | 117.5 4.625 | 660.4 26.00 | 190.5 7.50 | 63.5 2.50 | 24 1 | 85.1 3.35 | 224.3 8.83 | 129.0 5.08 | 5.6 0.22 | 214.1 8.43 | 170.1 375 |
| QMPF30J150S | 150 mm | | | | | | | | | | | | | | | | | |
| QMPF34J607S | 6 7/16 in. | | | | | | | | | | | | | | | | | |
| QMPF34J608S | 6 1/2 in. | 170 mm | 190.5 7.50 | 390.7 15.38 | 235.0 9.25 | 530.4 20.88 | 600.2 23.63 | 117.5 4.625 | 660.4 26.00 | 190.5 7.50 | 63.5 2.50 | 24 1 | 85.1 3.35 | 224.3 8.83 | 129.0 5.08 | 5.6 0.22 | 214.1 8.43 | 170.1 375 |
| QMPF34J170S | 170 mm | | | | | | | | | | | | | | | | | |
| QMPF34J615S | 6 15/16 in. | | | | | | | | | | | | | | | | | |
| QMPF34J700S | 7 in. | 180 mm | 190.5 7.50 | 390.7 15.38 | 235.0 9.25 | 530.4 20.88 | 600.2 23.63 | 117.5 4.625 | 660.4 26.00 | 190.5 7.50 | 63.5 2.50 | 24 1 | 85.1 3.35 | 224.3 8.83 | 129.0 5.08 | 5.6 0.22 | 214.1 8.43 | 170.1 375 |
| QMPF34J180S | 180 mm | | | | | | | | | | | | | | | | | |

QMPR FOUR-BOLT PILLOW BLOCKS



| Bearing Part No. | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | E | F | G | H | J | K | L | M | R | S | Wt. | |
|------------------|-------------|-------------|--------------|---------------|---------------|---------------|----------------|--------------|----------------|--------------|--------------|-----------|--------------|---------------|--------------|-------------|---------------|------------|--|
| | 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. | mm in. | mm in. | mm in. | kg lbs. | |
| QMPR13J060S | 60 mm | 22213 | 69.9 2.75 | 147.3 5.80 | 91.9 3.62 | 181.1 7.13 | 222.3 8.75 | 47.8 1.88 | 260.4 10.25 | 82.6 3.25 | 24.9 0.98 | 16 5/8 | 31.5 1.24 | 95.5 3.76 | 54.1 2.13 | 5.3 0.21 | 85.6 3.37 | 9.1 20 | |
| QMPR13J207S | 2 7/16 in. | | | | | | | | | | | | | | | | | | |
| QMPR13J208S | 2 1/2 in. | | | | | | | | | | | | | | | | | | |
| QMPR13J065S | 65 mm | 22215 | 79.5 3.13 | 164.3 6.47 | 101.9 4.01 | 203.2 8.00 | 243.8 9.60 | 54.1 2.13 | 275.1 10.83 | 85.9 3.38 | 29.5 1.16 | 16 5/8 | 31.8 1.25 | 103.1 4.06 | 60.2 2.37 | 6.1 0.24 | 91.9 3.62 | 12.2 27 | |
| QMPR15J211S | 2 11/16 in. | | | | | | | | | | | | | | | | | | |
| QMPR15J212S | 2 3/4 in. | | | | | | | | | | | | | | | | | | |
| QMPR15J070S | 70 mm | 22218 | 95.3 3.75 | 195.3 7.69 | 120.9 4.76 | 235.0 9.25 | 285.8 11.25 | 60.5 2.38 | 346.2 13.63 | 95.3 3.75 | 39.6 1.56 | 20 3/4 | 36.6 1.44 | 113.3 4.46 | 65.8 2.59 | 8.1 0.32 | 102.4 4.03 | 22.2 49 | |
| QMPR15J300S | 3 in. | | | | | | | | | | | | | | | | | | |
| QMPR15J075S | 75 mm | | | | | | | | | | | | | | | | | | |
| QMPR18J303S | 3 3/16 in. | 22218 | 95.3 3.75 | 195.3 7.69 | 120.9 4.76 | 235.0 9.25 | 285.8 11.25 | 60.5 2.38 | 346.2 13.63 | 95.3 3.75 | 39.6 1.56 | 20 3/4 | 36.6 1.44 | 113.3 4.46 | 65.8 2.59 | 8.1 0.32 | 102.4 4.03 | 22.2 49 | |
| QMPR18J304S | 3 1/4 in. | | | | | | | | | | | | | | | | | | |
| QMPR18J080S | 80 mm | | | | | | | | | | | | | | | | | | |
| QMPR18J085S | 85 mm | 22218 | 95.3 3.75 | 195.3 7.69 | 120.9 4.76 | 235.0 9.25 | 285.8 11.25 | 60.5 2.38 | 346.2 13.63 | 95.3 3.75 | 39.6 1.56 | 20 3/4 | 36.6 1.44 | 113.3 4.46 | 65.8 2.59 | 8.1 0.32 | 102.4 4.03 | 22.2 49 | |
| QMPR18J307S | 3 7/16 in. | | | | | | | | | | | | | | | | | | |
| QMPR18J308S | 3 1/2 in. | | | | | | | | | | | | | | | | | | |
| QMPR18J090S | 90 mm | | | | | | | | | | | | | | | | | | |

QMPH/QMPG FOUR-BOLT PILLOW BLOCKS



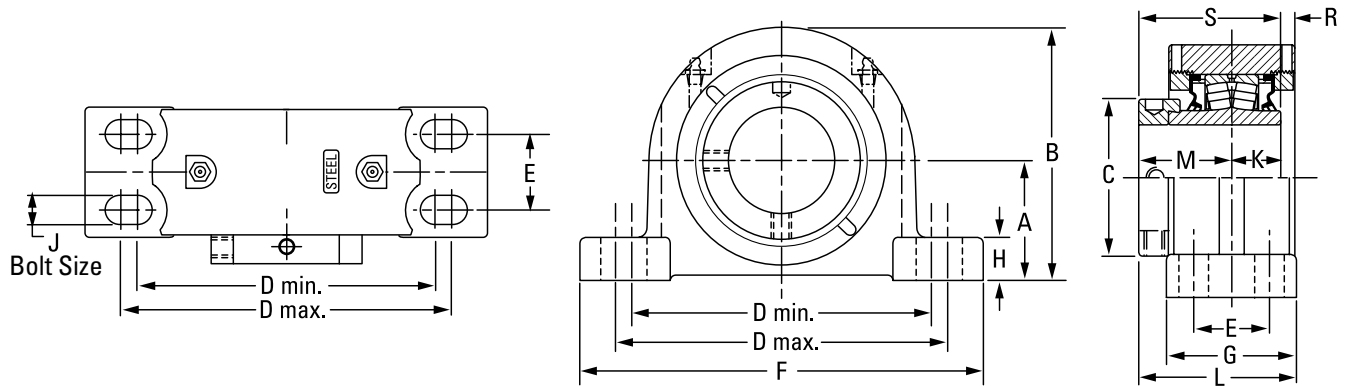
QMPH SAF STYLE FOUR-BOLT PILLOW BLOCK DIMENSIONS

| Bearing Part No. | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | E | F | G | H | J | K | L | M | R | S | Wt. | |
|------------------|-------------|-------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|--------------|-------------|--------------|---------------|---------------|---------------|---------------|--------------|------------|
| | 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. | mm in. | mm in. | mm in. | mm in. | kg lbs. |
| QMPH26J125S | 125 mm | 22226 | 152.4 6.00 | 290.8 11.45 | 175 6.89 | 406.4 16.00 | 435.1 17.13 | 85.9 3.38 | 500.4 19.70 | 128 5.04 | 51.8 2.04 | 24 1 | 58.7 2.31 | 158.5 6.24 | 94.5 3.72 | -0.7 -0.03 | 153.4 6.04 | 60.8 134 | |
| QMPH26J415S | 4 1/16 in. | | | | | | | | | | | | | | | | | | |
| QMPH26J500S | 5 in. | | | | | | | | | | | | | | | | | | |
| QMPH30J130S | 130 mm | 23230 | 169.9 6.69 | 330.7 13.02 | 205.0 8.07 | 441.5 17.38 | 485.9 19.13 | 95.3 3.75 | 558.8 22.00 | 171.5 6.75 | 76.2 3.00 | 24 1 | 75.9 2.99 | 199.1 7.84 | 116.1 4.57 | 5.1 0.20 | 192.0 7.56 | 118.8 262 | |
| QMPH30J507S | 5 7/16 in. | | | | | | | | | | | | | | | | | | |
| QMPH30J508S | 5 1/2 in. | | | | | | | | | | | | | | | | | | |
| QMPH30J140S | 140 mm | 23230 | 179.4 7.06 | 339.9 13.38 | 205.0 8.07 | 492.3 19.38 | 549.4 21.63 | 108.0 4.25 | 628.7 24.75 | 171.5 6.75 | 85.9 3.38 | 24 1 | 75.9 2.99 | 201.7 7.94 | 116.1 4.57 | 6.6 0.26 | 192.0 7.56 | 122.9 271 | |
| QMPH30J515S | 5 15/16 in. | | | | | | | | | | | | | | | | | | |
| QMPH30J600S | 6 in. | | | | | | | | | | | | | | | | | | |
| QMPH34J150S | 150 mm | 23234 | 190.5 7.50 | 390.7 15.38 | 235.0 9.25 | 530.4 20.88 | 600.2 23.63 | 117.5 4.63 | 711.2 28.00 | 190.5 7.50 | 63.5 2.50 | 24 1 | 85.1 3.35 | 224.3 8.83 | 129.0 5.08 | 5.6 0.22 | 214.1 8.43 | 170.1 375 | |
| QMPH34J607S | 6 7/16 in. | | | | | | | | | | | | | | | | | | |
| QMPH34J608S | 6 1/2 in. | | | | | | | | | | | | | | | | | | |
| QMPH34J170S | 170 mm | 23234 | 200.0 7.88 | 400.1 15.75 | 235.0 9.25 | 549.4 21.63 | 619.3 24.38 | 112.7 4.44 | 711.2 28.00 | 190.5 7.50 | 73.2 2.88 | 30 1 1/4 | 85.1 3.35 | 224.3 8.83 | 129.0 5.08 | 5.6 0.22 | 214.1 8.43 | 178.3 393 | |
| QMPH34J615S | 6 15/16 in. | | | | | | | | | | | | | | | | | | |
| QMPH34J700S | 7 in. | | | | | | | | | | | | | | | | | | |
| QMPH34J180S | 180 mm | | | | | | | | | | | | | | | | | | |

QMPG SN STYLE FOUR-BOLT PILLOW BLOCK DIMENSIONS

| Bearing Part No. | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | E | F | G | H | J | K | L | M | R | S | Wt. | |
|------------------|-------------|-------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|--------------|-------------|--------------|---------------|---------------|---------------|---------------|--------------|------------|
| | 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. | mm in. | mm in. | mm in. | mm in. | kg lbs. |
| QMPG26J125S | 125 mm | 22226 | 150.0 5.91 | 288.4 11.36 | 175.0 6.89 | 383.4 15.09 | 448.5 17.66 | 80.0 3.15 | 500.1 19.69 | 128 5.04 | 49.3 1.94 | 24 1 | 58.7 2.31 | 158.5 6.24 | 94.5 3.72 | -6.9 -0.27 | 153.4 6.04 | 60.8 134 | |
| QMPG26J415S | 4 1/16 in. | | | | | | | | | | | | | | | | | | |
| QMPG26J500S | 5 in. | | | | | | | | | | | | | | | | | | |
| QMPG26J130S | 130 mm | 23230 | 170.0 6.69 | 332.2 13.08 | 205.0 8.07 | 438.2 17.25 | 482.6 19.00 | 89.9 3.54 | 547.6 21.65 | 171.5 6.75 | 76.2 3.00 | 24 1 | 75.9 2.99 | 198.6 7.82 | 116.1 4.57 | 9.7 0.38 | 192.0 7.56 | 113.4 250 | |
| QMPG30J507S | 5 7/16 in. | | | | | | | | | | | | | | | | | | |
| QMPG30J508S | 5 1/2 in. | | | | | | | | | | | | | | | | | | |
| QMPG30J140S | 140 mm | 23234 | 190.5 7.50 | 390.7 15.38 | 235.0 9.25 | 530.4 20.88 | 600.2 23.63 | 117.5 4.63 | 711.2 28.00 | 190.5 7.50 | 63.5 2.50 | 24 1 | 85.1 3.35 | 224.3 8.83 | 129.0 5.08 | 5.6 0.22 | 214.1 8.43 | 178.3 393 | |
| QMPG30J515S | 5 15/16 in. | | | | | | | | | | | | | | | | | | |
| QMPG30J600S | 6 in. | | | | | | | | | | | | | | | | | | |
| QMPG34J150S | 150 mm | 23234 | 200.0 7.88 | 400.1 15.75 | 235.0 9.25 | 549.4 21.63 | 619.3 24.38 | 114.3 4.50 | 711.2 28.00 | 190.5 7.50 | 73.2 2.88 | 30 1 1/4 | 85.1 3.35 | 224.3 8.83 | 129.0 5.08 | 5.6 0.22 | 214.1 8.43 | 170.1 375 | |
| QMPG34J607S | 6 7/16 in. | | | | | | | | | | | | | | | | | | |
| QMPG34J608S | 6 1/2 in. | | | | | | | | | | | | | | | | | | |
| QMPG34J170S | 170 mm | | | | | | | | | | | | | | | | | | |
| QMPG34J615S | 6 15/16 in. | | | | | | | | | | | | | | | | | | |
| QMPG34J700S | 7 in. | | | | | | | | | | | | | | | | | | |
| QMPG34J180S | 180 mm | | | | | | | | | | | | | | | | | | |

OMPX 5000 SERIES FOUR-BOLT PILLOW BLOCKS

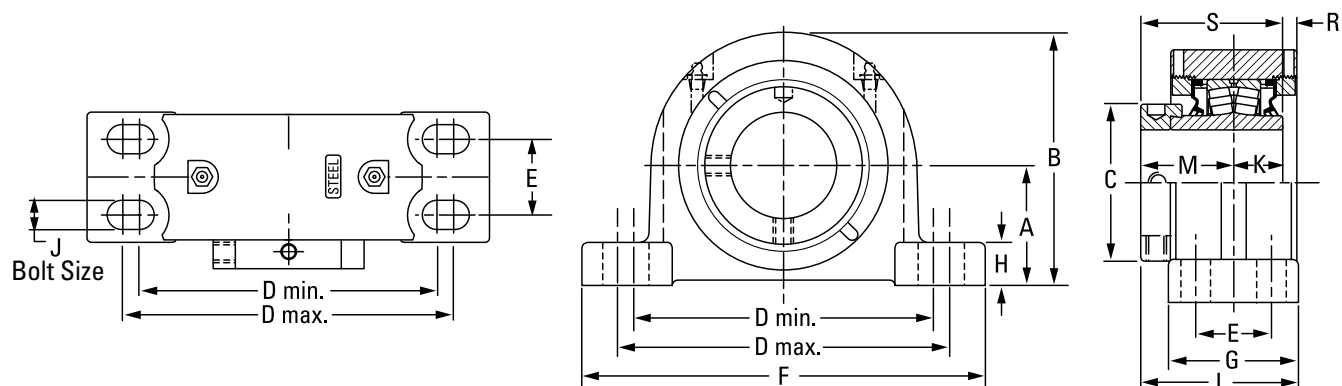


| Bearing Part No. | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | E | F | G | H | J | K | L | M | R | S | Wt. | |
|------------------|---------------|-------------|----------------------|-----------------------|----------------------|-----------------------|-----------------------|----------------------|-----------------------|----------------------|---------------------|------------------|---------------------|----------------------|---------------------|--------------------|----------------------|-------------------|---------|
| | | | 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. | mm in. | mm in. | mm in. | kg lbs. |
| QMPX13J060S | 60 mm | 22213 | 76.2 3.00 | 153.7 6.05 | 91.9 3.62 | 176.3 6.94 | 242.8 9.56 | 66.8 2.63 | 285.8 11.25 | 98.6 3.88 | 31.2 1.23 | 16 5/8 | 31.5 1.24 | 103.4 4.07 | 54.1 2.13 | 5.3 0.21 | 85.6 3.37 | 10.4 23 | |
| QMPX13J207S | 2 7/8 in. | | | | | | | | | | | | | | | | | | |
| QMPX13J208S | 2 1/2 in. | | | | | | | | | | | | | | | | | | |
| QMPX13J065S | 65 mm | 22215 | 88.9 3.50 | 173.5 6.83 | 101.9 4.01 | 230.1 9.06 | 265.2 10.44 | 68.9 2.75 | 330.2 13.00 | 108.0 4.25 | 39.1 1.54 | 20 3/4 | 31.8 1.25 | 114.3 4.50 | 60.2 2.37 | 7.1 0.28 | 91.9 3.62 | 12.7 28 | |
| QMPX15J211S | 2 1/8 in. | | | | | | | | | | | | | | | | | | |
| QMPX15J212S | 2 3/4 in. | | | | | | | | | | | | | | | | | | |
| QMPX15J070S | 70 mm | 22218 | 101.6 4.00 | 201.2 7.92 | 120.9 4.76 | 274.6 10.81 | 309.6 12.19 | 76.2 3.00 | 381.0 15.00 | 120.7 4.75 | 38.1 1.50 | 20 3/4 | 36.6 1.44 | 126.0 4.96 | 65.8 2.59 | 8.1 0.32 | 102.4 4.03 | 22.2 49 | |
| QMPX18J303S | 3 3/8 in. | | | | | | | | | | | | | | | | | | |
| QMPX18J304S | 3 1/4 in. | | | | | | | | | | | | | | | | | | |
| QMPX18J080S | 80 mm | 22220 | 127.0 5.00 | 239.8 9.44 | 152.4 6.00 | 317.5 12.50 | 355.6 14.00 | 88.9 3.50 | 425.5 16.75 | 139.7 5.50 | 41.4 1.63 | 24 7/8 | 41.4 1.63 | 145.3 5.72 | 75.2 2.96 | 8.6 0.34 | 116.6 4.59 | 30.4 67 | |
| QMPX18J085S | 85 mm | | | | | | | | | | | | | | | | | | |
| QMPX18J307S | 3 7/8 in. | | | | | | | | | | | | | | | | | | |
| QMPX18J308S | 3 1/2 in. | 22222 | 146.1 5.75 | 273.8 10.78 | 160.0 6.30 | 354.1 13.94 | 395.2 15.56 | 101.6 4.00 | 469.9 18.50 | 158.8 6.25 | 45.7 1.80 | 24 1 | 46.5 1.83 | 171.2 6.74 | 94.0 3.70 | 2.3 0.09 | 140.5 5.53 | 37.2 82 | |
| QMPX20J311S | 3 1/8 in. | | | | | | | | | | | | | | | | | | |
| QMPX20J312S | 3 3/4 in. | | | | | | | | | | | | | | | | | | |
| QMPX20J315S | 3 15/16 in. | 100 mm | 146.1 5.75 | 273.8 10.78 | 160.0 6.30 | 354.1 13.94 | 395.2 15.56 | 101.6 4.00 | 469.9 18.50 | 158.8 6.25 | 45.7 1.80 | 24 1 | 46.5 1.83 | 171.2 6.74 | 94.0 3.70 | 2.3 0.09 | 140.5 5.53 | 37.2 82 | |
| QMPX20J400S | 4 in. | | | | | | | | | | | | | | | | | | |
| QMPX20J100S | 100 mm | | | | | | | | | | | | | | | | | | |
| QMPX22J110S | 110 mm | 115 mm | 146.1 5.75 | 273.8 10.78 | 160.0 6.30 | 354.1 13.94 | 395.2 15.56 | 101.6 4.00 | 469.9 18.50 | 158.8 6.25 | 45.7 1.80 | 24 1 | 46.5 1.83 | 171.2 6.74 | 94.0 3.70 | 2.3 0.09 | 140.5 5.53 | 37.2 82 | |
| QMPX22J407S | 4 7/8 in. | | | | | | | | | | | | | | | | | | |
| QMPX22J408S | 4 1/2 in. | | | | | | | | | | | | | | | | | | |
| QMPX22J115S | 115 mm | | | | | | | | | | | | | | | | | | |

⁽¹⁾No gussets on outside housing.

Continued on next page.

QMPX 5000 SERIES FOUR-BOLT PILLOW BLOCKS

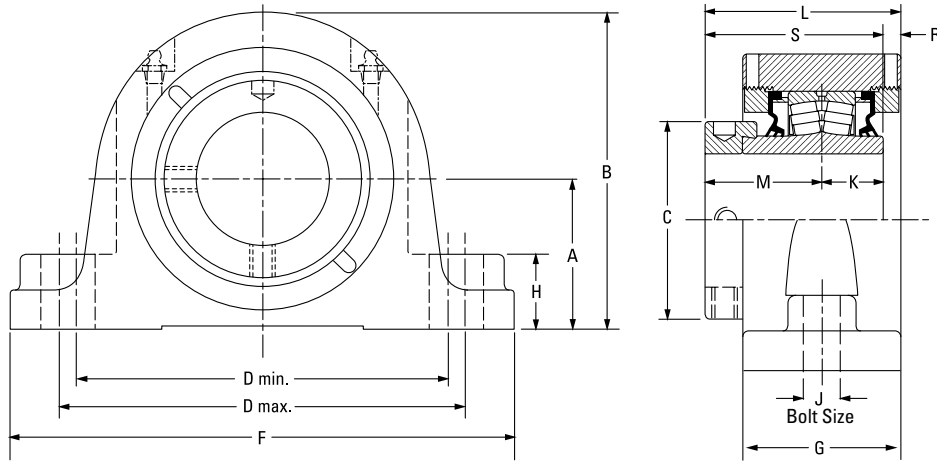


Continued from previous page.

| Bearing Part No. | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | E | F | G | H | J | K | L | M | R | S | Wt. |
|----------------------------|-------------|-------------|---------------|----------------|---------------|----------------|-----------------|---------------|----------------|---------------|--------------|-------------|--------------|---------------|---------------|---------------|---------------|--------------|
| | 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. | mm in. | mm in. | mm in. | kg lbs. |
| QMPX26J125S | 125 mm | 22226 | 155.6 6.13 | 283.2 11.15 | 175.0 6.89 | 387.4 15.25 | 425.5 16.75 | 108.0 4.25 | 514.4 20.25 | 171.5 6.75 | 50.8 2.00 | 24 1 1/8 | 58.7 2.31 | 180.3 7.10 | 94.5 3.72 | -1.5 -0.06 | 153.4 6.04 | 60.8 134 |
| QMPX26J415S | 4 15/16 in. | | | | | | | | | | | | | | | | | |
| QMPX26J500S | 5 in. | | | | | | | | | | | | | | | | | |
| QMPX26J130S | 130 mm | 23230 | 169.9 6.69 | 330.2 13.00 | 205.0 8.07 | 439.9 17.32 | 485.8 19.125 | 93.5 3.68 | 558.8 22.00 | 171.5 6.75 | 76.2 3.00 | 24 1 1/8 | 75.9 2.99 | 201.7 7.94 | 116.1 4.57 | 6.6 0.26 | 192.0 7.56 | 113.4 250 |
| QMPX30J507S | 5 7/8 in. | | | | | | | | | | | | | | | | | |
| QMPX30J508S | 5 1/2 in. | | | | | | | | | | | | | | | | | |
| QMPX30J140S | 140 mm | 23230 | 179.4 7.06 | 339.9 13.38 | 205.0 8.07 | 489.0 19.25 | 552.5 21.75 | 106.4 4.19 | 625.7 24.75 | 171.5 6.75 | 85.6 3.37 | 24 1 1/8 | 75.9 2.99 | 196.9 7.75 | 116.1 4.57 | 4.8 0.19 | 192.0 7.56 | 120.2 265 |
| QMPX30J515S ⁽¹⁾ | 5 15/16 in. | | | | | | | | | | | | | | | | | |
| QMPX30J600S ⁽¹⁾ | 6 in. | | | | | | | | | | | | | | | | | |
| QMPX30J150S ⁽¹⁾ | 150 mm | 23234 | 200.0 7.88 | 400.1 15.75 | 235.0 9.25 | 549.4 21.63 | 619.3 24.38 | 112.8 4.44 | 711.2 28.00 | 190.5 7.50 | 73.2 2.88 | 30 1 1/4 | 80.1 3.35 | 224.3 8.83 | 129.0 5.08 | 5.6 0.22 | 214.1 8.43 | 179.2 395 |
| QMPX34J607S ⁽¹⁾ | 6 7/8 in. | | | | | | | | | | | | | | | | | |
| QMPX34J608S ⁽¹⁾ | 6 1/2 in. | | | | | | | | | | | | | | | | | |
| QMPX34J170S ⁽¹⁾ | 170 mm | | | | | | | | | | | | | | | | | |
| QMPX34J615S ⁽¹⁾ | 6 15/16 in. | | | | | | | | | | | | | | | | | |
| QMPX34J700S ⁽¹⁾ | 7 in. | | | | | | | | | | | | | | | | | |
| QMPX34J180S ⁽¹⁾ | 180 mm | | | | | | | | | | | | | | | | | |

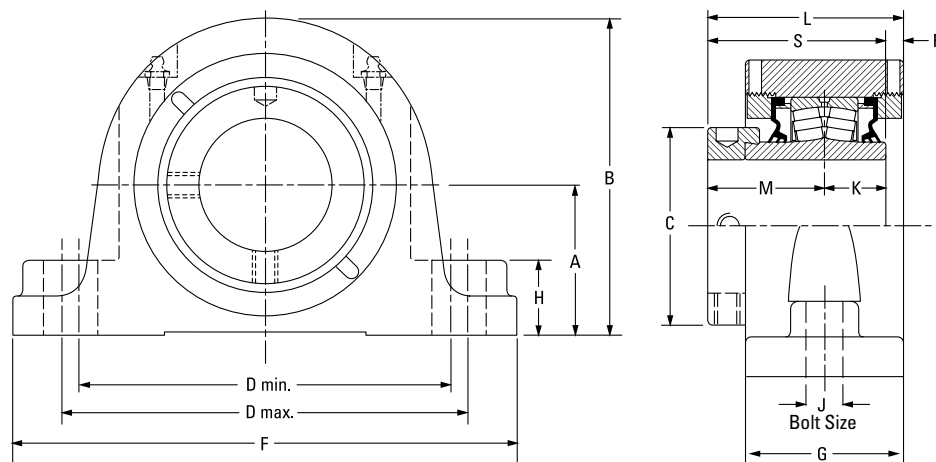
⁽¹⁾No gussets on outside housing.

QMPXT 5000 SERIES TWO-BOLT PILLOW BLOCKS



| Bearing Part No. | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | F | G | H | J | K | L | M | R | S | Wt. |
|------------------|-------------|-------------|--------------|---------------|---------------|---------------|----------------|----------------|--------------|--------------|-----------|--------------|--------------|--------------|-------------|--------------|------------|
| | 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. | mm in. | mm in. | kg lbs. |
| QMPXT13J060S | 60 mm | 22213 | 76.2 3.00 | 153.7 6.05 | 91.9 3.62 | 194.6 7.66 | 223.0 8.78 | 285.8 11.25 | 73.7 2.90 | 35.1 1.38 | 20 3/4 | 31.5 1.24 | 91.4 3.60 | 54.1 2.13 | 5.3 0.21 | 85.6 3.37 | 10.0 22 |
| QMPXT13J207S | 2 7/16 in. | | | | | | | | | | | | | | | | |
| QMPXT13J208S | 2 1/2 in. | | | | | | | | | | | | | | | | |
| QMPXT13J065S | 65 mm | | | | | | | | | | | | | | | | |
| QMPXT15J211S | 2 1/16 in. | 22215 | 88.9 3.50 | 173.7 6.84 | 101.9 4.01 | 230.1 9.06 | 265.2 10.44 | 330.2 13.00 | 75.7 2.98 | 35.1 1.38 | 24 7/8 | 31.8 1.25 | 98.0 3.86 | 60.2 2.37 | 6.1 0.24 | 91.9 3.62 | 12.7 28 |
| QMPXT15J212S | 2 3/4 in. | | | | | | | | | | | | | | | | |
| QMPXT15J070S | 70 mm | | | | | | | | | | | | | | | | |
| QMPXT15J215S | 2 15/16 in. | | | | | | | | | | | | | | | | |
| QMPXT15J300S | 3 in. | | | | | | | | | | | | | | | | |
| QMPXT15J075S | 75 mm | | | | | | | | | | | | | | | | |

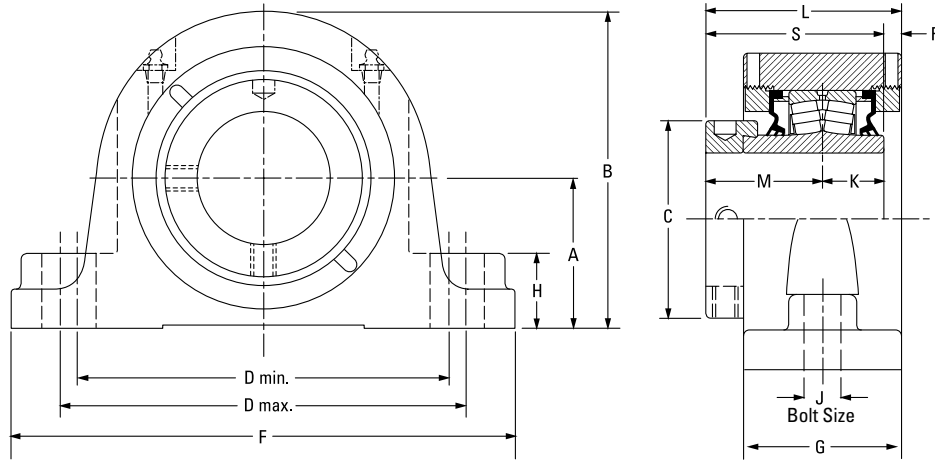
QMSN SN-STYLE TWO-BOLT PILLOW BLOCKS – PURE METRIC DESIGN



| Bearing Part No. | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | F | G | H | J | K | L | M | R | S | Wt. |
|------------------|--------------|-------------|------------|------------|-------------|------------|------------|------------|-----------|-----------|-----------|-----------|------------|-----------|----------|------------|-------------|
| | | | 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. | mm in. | mm in. |
| QMSN08J035S | 35 mm | 22208 | 60 | 111 | 60.5 | 159 | 175 | 205 | 62 | 35 | 12 | 25 | 75 | 44 | 5 | 70 | 10.5 |
| QMSN08J107S | 1 7/16 in. | | 2.36 | 4.37 | 2.38 | 6.26 | 6.89 | 8.07 | 2.44 | 1.38 | 1/2 | 1.00 | 2.95 | 1.75 | 0.20 | 2.75 | 23 |
| QMSN08J108S | 1 1/2 in. | | | | | | | | | | | | | | | | |
| QMSN09J040S | 40 mm | 22209 | 60 | 111 | 67 | 159 | 175 | 205 | 62 | 35 | 12 | 25 | 79 | 48 | 6 | 73 | 10.5 |
| QMSN09J111S | 1 7/16 in. | | 2.36 | 4.37 | 2.64 | 6.26 | 6.89 | 8.07 | 2.44 | 1.38 | 1/2 | 0.98 | 3.11 | 1.89 | 0.24 | 2.87 | 23 |
| QMSN09J112S | 1 3/4 in. | | | | | | | | | | | | | | | | |
| QMSN09J045S | 45 mm | 22210 | 70 | 136 | 70 | 183 | 216 | 254 | 68 | 25 | 16 | 25 | 82 | 48 | 9 | 73 | 12.7 |
| QMSN10J115S | 1 7/16 in. | | 2.76 | 5.35 | 2.76 | 7.20 | 8.50 | 10.00 | 2.68 | 0.98 | 5/8 | 0.98 | 3.23 | 1.89 | 0.35 | 2.87 | 28 |
| QMSN10J200S | 2 in. | | | | | | | | | | | | | | | | |
| QMSN10J050S | 50 mm | 22211 | 70 | 141 | 76 | 183 | 216 | 254 | 68 | 25 | 16 | 29 | 85 | 51 | 6 | 80 | 13.2 |
| QMSN11J203S | 2 3/16 in. | | 2.76 | 5.55 | 2.99 | 7.20 | 8.50 | 10.00 | 2.68 | 0.98 | 5/8 | 1.14 | 3.35 | 2.01 | 0.24 | 3.15 | 29 |
| QMSN11J204S | 2 1/4 in. | | | | | | | | | | | | | | | | |
| QMSN11J055S | 55 mm | 22213 | 80 | 157 | 92 | 196 | 235 | 275 | 74 | 35 | 16 | 31 | 91 | 55 | 5 | 86 | 15.9 |
| QMSN13J060S | 60 mm | | 3.15 | 6.18 | 3.62 | 7.72 | 9.25 | 10.83 | 2.91 | 1.38 | 5/8 | 1.22 | 3.58 | 2.17 | 0.20 | 3.39 | 35 |
| QMSN13J207S | 2 7/16 in. | | | | | | | | | | | | | | | | |
| QMSN13J208S | 2 1/2 in. | 22215 | 95 | 183 | 102 | 241 | 279 | 316 | 76 | 34 | 20 | 32 | 98 | 60 | 6 | 92 | 20.9 |
| QMSN13J065S | 65 mm | | 3.74 | 7.20 | 4.02 | 9.49 | 10.98 | 12.44 | 2.99 | 1.34 | 3/4 | 1.26 | 3.86 | 2.36 | 0.24 | 3.62 | 46 |
| QMSN15J211S | 2 1/16 in. | | | | | | | | | | | | | | | | |
| QMSN15J212S | 2 3/8 in. | 22218 | 100 | 200 | 121 | 279 | 292 | 345 | 86 | 39 | 20 | 37 | 109 | 66 | 7 | 103 | 25.5 |
| QMSN15J070S | 70 mm | | 3.94 | 7.87 | 4.76 | 10.98 | 11.50 | 13.58 | 3.39 | 1.54 | 3/4 | 1.46 | 4.29 | 2.60 | 0.28 | 4.06 | 56 |
| QMSN15J215S | 2 1/16 in. | | | | | | | | | | | | | | | | |
| QMSN15J300S | 3 in. | | | | | | | | | | | | | | | | |
| QMSN15J075S | 75 mm | | | | | | | | | | | | | | | | |
| QMSN18J303S | 3 3/16 in. | | | | | | | | | | | | | | | | |
| QMSN18J304S | 3 1/4 in. | | | | | | | | | | | | | | | | |
| QMSN18J080S | 80 mm | | | | | | | | | | | | | | | | |

Continued on next page.

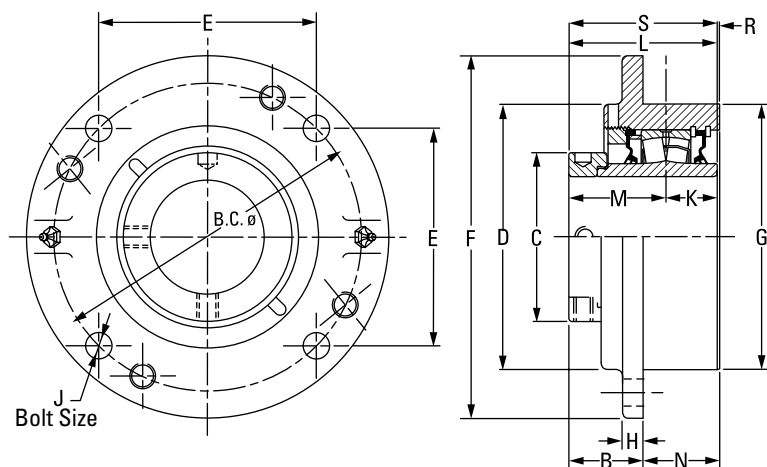
QMSN SN-STYLE TWO-BOLT PILLOW BLOCKS – PURE METRIC DESIGN – continued



Continued from previous page.

| Bearing Part No. | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | F | G | H | J | K | L | M | R | S | Wt. |
|------------------|-------------|-------------|-------------|--------------|-------------|--------------|--------------|--------------|-------------|------------|-------------|------------|-------------|-------------|-----------|-------------|--------------|
| | 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. | mm in. | mm in. | kg lbs. |
| QMSN18J085S | 85 mm | 22218 | 112 4.41 | 212 8.35 | 121 4.76 | 280 11.02 | 292 11.50 | 345 13.58 | 86 3.38 | 39 1.53 | 20 3/4 | 37 1.46 | 109 4.29 | 66 2.60 | 7 0.28 | 103 4.06 | 25.5 56 |
| QMSN18J307S | 3 7/8 in. | 22218 | 112 4.41 | 212 8.35 | 121 4.76 | 290 11.42 | 327 12.87 | 380 14.96 | 86 3.38 | 39 1.53 | 24 7/8 | 37 1.46 | 109 4.29 | 66 2.60 | 7 0.28 | 103 4.06 | 25.5 56 |
| QMSN18J308S | 3 1/2 in. | | | | | | | | | | | | | | | | |
| QMSN18J090S | 90 mm | | | | | | | | | | | | | | | | |
| QMSN20J311S | 3 11/16 in. | 22220 | 125 4.92 | 241 9.48 | 152 5.98 | 319 12.58 | 366 14.42 | 410 16.14 | 101 3.96 | 50 1.98 | 24 7/8 | 41 1.61 | 126 4.96 | 75 2.95 | 9 0.35 | 116 4.57 | 35.9 79 |
| QMSN20J312S | 3 3/4 in. | | | | | | | | | | | | | | | | |
| QMSN20J315S | 3 15/16 in. | | | | | | | | | | | | | | | | |
| QMSN20J400S | 4 in. | | | | | | | | | | | | | | | | |
| QMSN20J100S | 100 mm | | | | | | | | | | | | | | | | |
| QMSN22J110S | 110 mm | 22222 | 140 5.51 | 255 10.04 | 160 6.30 | 332 13.08 | 365 14.37 | 410 16.14 | 105 4.15 | 39 1.53 | 24 7/8 | 47 1.85 | 147 5.79 | 94 3.70 | 6 0.24 | 141 5.55 | 35.9 79 |
| QMSN22J407S | 4 7/16 in. | 22222 | 150 5.91 | 265 10.43 | 160 6.30 | 367 14.45 | 400 15.75 | 445 17.52 | 105 4.13 | 49 1.93 | 24 7/8 | 47 1.85 | 147 5.79 | 94 3.70 | 6 0.24 | 141 5.55 | 35.5 78 |
| QMSN22J408S | 4 1/2 in. | | | | | | | | | | | | | | | | |
| QMSN22J115S | 115 mm | | | | | | | | | | | | | | | | |
| QMSN26J125S | 125 mm | 22226 | 150 5.91 | 282 11.10 | 175 6.89 | 402 15.83 | 435 17.13 | 500 19.69 | 113 4.45 | 49 1.93 | 30 1 1/4 | 58 2.28 | 151 5.94 | 95 3.74 | 2 0.08 | 153 6.02 | 40.0 88 |
| QMSN26J415S | 4 15/16 in. | | | | | | | | | | | | | | | | |
| QMSN26J500S | 5 in. | | | | | | | | | | | | | | | | |
| QMSN26J130S | 130 mm | | | | | | | | | | | | | | | | |
| QMSN30J507S | 5 7/16 in. | 23230 | 170 6.69 | 330 13.01 | 205 8.07 | 461 18.15 | 479 18.86 | 550 21.65 | 171 6.75 | 76 3.01 | 30 1 1/4 | 76 2.99 | 202 7.94 | 116 4.57 | 7 0.26 | 192 7.56 | 136.4 300 |
| QMSN30J508S | 5 1/2 in. | | | | | | | | | | | | | | | | |
| QMSN30J140S | 140 mm | | | | | | | | | | | | | | | | |
| QMSN30J515S | 5 15/16 in. | | | | | | | | | | | | | | | | |
| QMSN30J600S | 6 in. | | | | | | | | | | | | | | | | |
| QMSN30J150S | 150 mm | | | | | | | | | | | | | | | | |

QMC PILOTED FLANGE CARTRIDGES

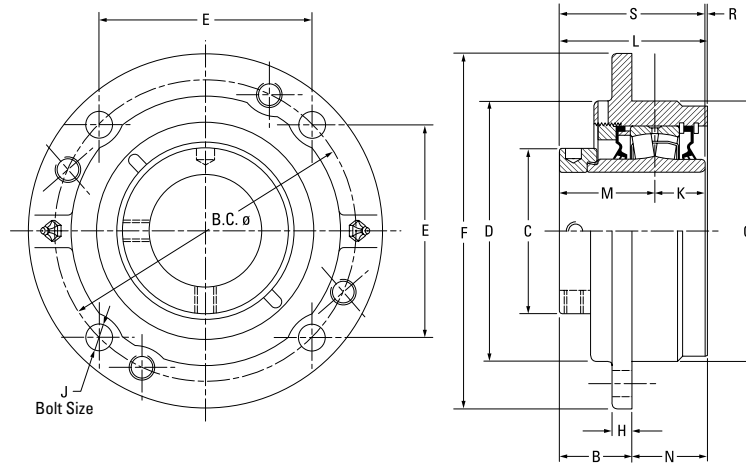


| Bearing Part No. | Shaft Dia. | Bearing No. | B FIX | B EXP | B.C. | C | D | E | F | G ⁽¹⁾ | H | J | K | L FIX | L EXP | M | N | R | S | Wt. |
|---------------------------|---------------|-------------|-------------|-------------|----------------------|--------------|--------------|---------------------|--------------|------------------|-------------|--------------------|-------------|--------------|--------------|-------------|-------------|-------------|--------------|-------------|
| | | | 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. | mm in. | mm in. | mm in. | mm in. | mm in. |
| QMC08J035S | 35 mm | 22208 | 49.8 | 51.8 | 111.3 | 60.5 | 92.2 | 78.5 | 133.4 | 92.1 | 12.7 | 10 | 25.4 | 73.7 | 75.7 | 44.5 | 23.9 | 3.81 | 69.9 | 3.6 |
| QMC08J107S | 1 7/16 in. | | 1.96 | 2.04 | 4.38 | 2.38 | 3.63 | 3.09 | 5.25 | 3.625 | 0.50 | 7/16 | 1.00 | 2.90 | 2.98 | 1.75 | 0.94 | 0.15 | 2.75 | 8 |
| QMC08J108S | 1 1/2 in. | | | | | | | | | | | | | | | | | | | |
| QMC09J040S | 40 mm | 22209 | 54.6 | 56.6 | 130.3 | 66.8 | 111.3 | 91.9 | 155.7 | 108.0 | 12.7 | 10 | 25.4 | 77.0 | 79.0 | 47.5 | 22.4 | 3.81 | 72.9 | 4.1 |
| QMC09J111S | 1 11/16 in. | | 2.15 | 2.23 | 5.13 | 2.63 | 4.38 | 3.62 | 6.13 | 4.250 | 0.50 | 7/16 | 1.00 | 3.03 | 3.11 | 1.87 | 0.88 | 0.15 | 2.87 | 9 |
| QMC09J112S | 1 3/4 in. | | | | | | | | | | | | | | | | | | | |
| QMC09J045S | 45 mm | 22210 | 50.4 | 52.6 | 136.7 | 70.1 | 113.5 | 96.5 | 162.1 | 114.3 | 16.0 | 10 | 25.4 | 77.5 | 79.5 | 47.5 | 26.9 | 4.6 | 72.9 | 4.5 |
| QMC10J115S | 1 15/16 in. | | 1.99 | 2.07 | 5.38 | 2.76 | 4.47 | 3.80 | 6.38 | 4.500 | 0.63 | 7/16 | 1.00 | 3.05 | 3.13 | 1.87 | 1.06 | 0.18 | 2.87 | 10 |
| QMC10J200S | 2 in. | | | | | | | | | | | | | | | | | | | |
| QMC10J050S | 50 mm | 22211 | 54.4 | 56.4 | 152.4 | 75.9 | 127.0 | 107.7 | 185.4 | 127.0 | 14.7 | 12 | 28.7 | 83.1 | 85.1 | 50.5 | 28.7 | 3.6 | 79.2 | 5.9 |
| QMC11J203S | 2 3/8 in. | | 2.14 | 2.22 | 6.00 | 2.99 | 5.00 | 4.24 | 7.30 | 5.000 | 0.58 | 1/2 | 1.13 | 3.27 | 3.35 | 1.99 | 1.13 | 0.14 | 3.12 | 13 |
| QMC11J204S | 2 1/4 in. | | | | | | | | | | | | | | | | | | | |
| QMC11J055S | 55 mm | 22213 | 59.4 | 61.5 | 165.1 | 91.9 | 139.7 | 116.8 | 193.8 | 139.7 | 17.5 | 12 | 31.5 | 87.9 | 91.2 | 54.1 | 28.7 | 2.3 | 85.6 | 7.3 |
| QMC13J060S | 60 mm | | 2.34 | 2.42 | 6.50 | 3.62 | 5.50 | 4.60 | 7.63 | 5.500 | 0.69 | 1/2 | 1.24 | 3.46 | 3.59 | 2.13 | 1.13 | 0.09 | 3.37 | 16 |
| QMC13J207S | 2 7/16 in. | | | | | | | | | | | | | | | | | | | |
| QMC13J208S | 2 1/2 in. | | | | | | | | | | | | | | | | | | | |
| QMC13J065S | 65 mm | 22215 | 62.5 | 64.5 | 190.5 | 101.9 | 159.2 | 134.6 | 222.3 | 161.9 | 20.6 | 16 | 31.8 | 94.5 | 96.5 | 60.2 | 31.8 | 2.3 | 91.9 | 10.0 |
| QMC15J211S | 2 11/16 in. | | 2.46 | 2.54 | 7.50 | 4.01 | 6.27 | 5.30 | 8.75 | 6.375 | 0.81 | 5/8 | 1.25 | 3.72 | 3.80 | 2.37 | 1.25 | 0.09 | 3.62 | 22 |
| QMC15J212S | 2 3/4 in. | | | | | | | | | | | | | | | | | | | |
| QMC15J070S | 70 mm | 22218 | 73.2 | 75.2 | 219.2 | 120.9 | 187.5 | 154.9 | 262.6 | 187.3 | 25.4 | 20 | 36.6 | 106.4 | 108.5 | 65.8 | 33.3 | 4.1 | 116.6 | 14.5 |
| QMC15J215S | 2 15/16 in. | | 2.88 | 2.96 | 8.63 | 4.76 | 7.38 | 6.10 | 10.34 | 7.375 | 1.00 | 3/4 | 1.44 | 4.19 | 4.27 | 2.59 | 1.31 | 0.16 | 4.59 | 32 |
| QMC15J300S | 3 in. | | | | | | | | | | | | | | | | | | | |
| QMC15J075S | 75 mm | 22220 | 72.1 | 74.2 | 238.3 | 152.4 | 206.5 | 168.4 | 276.4 | 206.4 | 25.4 | 20 | 41.4 | 126.0 | 128.0 | 75.2 | 54.1 | 9.4 | 116.6 | 19.5 |
| QMC18J303S | 3 3/16 in. | | 2.84 | 2.92 | 9.38 | 6.00 | 8.13 | 6.63 | 10.88 | 8.125 | 1.00 | 3/4 | 1.63 | 4.96 | 5.04 | 2.96 | 2.13 | 0.37 | 4.59 | 43 |
| QMC18J304S | 3 1/4 in. | | | | | | | | | | | | | | | | | | | |
| QMC18J080S | 80 mm | 22222 | 92.5 | 94.5 | 298.5 | 160.0 | 254.0 | 149.4 | 342.9 | 260.4 | 25.4 | 20 | 46.5 | 140.7 | 142.7 | 94.0 | 48.3 | 0.3 | 140.5 | 32.7 |
| QMC18J085S | 85 mm | | 3.64 | 3.72 | 11.75 ⁽²⁾ | 6.30 | 10.00 | 5.88 ⁽²⁾ | 13.50 | 10.250 | 1.00 | 3/4 ⁽²⁾ | 1.83 | 5.54 | 5.62 | 3.70 | 1.90 | 0.01 | 5.53 | 72 |
| QMC18J307S | 3 7/16 in. | | | | | | | | | | | | | | | | | | | |
| QMC18J308S | 3 1/2 in. | | | | | | | | | | | | | | | | | | | |
| QMC18J090S | 90 mm | | | | | | | | | | | | | | | | | | | |
| QMC20J311S | 3 11/16 in. | | | | | | | | | | | | | | | | | | | |
| QMC20J312S | 3 3/4 in. | | | | | | | | | | | | | | | | | | | |
| QMC20J315S | 3 15/16 in. | | | | | | | | | | | | | | | | | | | |
| QMC20J400S | 4 in. | | | | | | | | | | | | | | | | | | | |
| QMC20J100S | 100 mm | | | | | | | | | | | | | | | | | | | |
| QMC22J110S ⁽²⁾ | 110 mm | | | | | | | | | | | | | | | | | | | |
| QMC22J407S ⁽²⁾ | 4 7/16 in. | | | | | | | | | | | | | | | | | | | |
| QMC22J408S ⁽²⁾ | 4 1/2 in. | | | | | | | | | | | | | | | | | | | |
| QMC22J115S ⁽²⁾ | 115 mm | | | | | | | | | | | | | | | | | | | |

⁽¹⁾Pilot tolerance: +0/-0.05 mm (+0/-0.002 in.).

⁽²⁾Six-bolt housing.

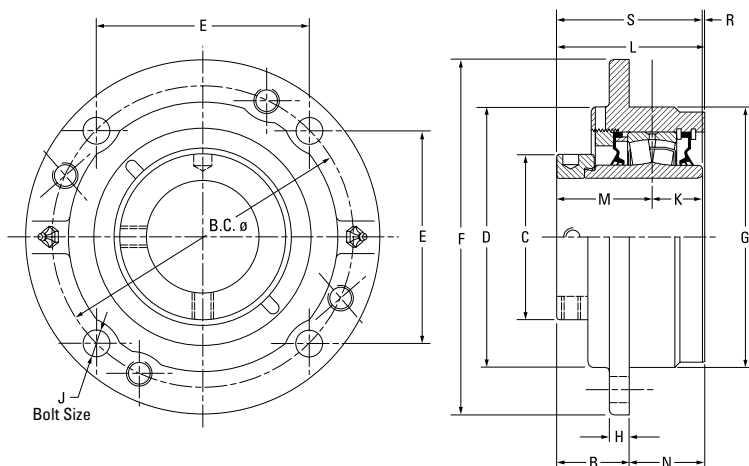
QMCW PILOTED FLANGE CARTRIDGES



| Bearing Part No. | Shaft Dia. | Bearing No. | B FIX | B EXP | B.C. | C | D | E | F | G ⁽¹⁾ | H | J | K | L FIX | L EXP | M | N | R | S | Wt. | |
|------------------|-------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| | 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. | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. | kg lbs. |
| QMCW08J035S | 35 mm | 22208 | 38.6 | 40.9 | 111.3 | 59.9 | 92.2 | 78.5 | 133.4 | 92.1 | 12.7 | 10 | 25.4 | 73.7 | 75.7 | 44.5 | 35.1 | 3.8 | 69.9 | 3.6 | |
| QMCW08J107S | 1 7/16 in. | | 1.53 | 1.61 | 4.38 | 2.36 | 3.63 | 3.09 | 5.25 | 3.625 | 0.50 | 7/16 | 1.00 | 2.90 | 2.98 | 1.75 | 1.38 | 0.15 | 2.75 | 8 | |
| QMCW08J108S | 1 1/2 in. | | | | | | | | | | | | | | | | | | | | |
| QMCW09J040S | 40 mm | 22209 | 38.9 | 40.1 | 130.3 | 66.8 | 111.3 | 91.9 | 155.7 | 108.0 | 10.2 | 10 | 25.1 | 77.0 | 78.2 | 47.8 | 38.1 | 4.1 | 72.9 | 4.1 | |
| QMCW09J111S | 1 11/16 in. | | 1.53 | 1.58 | 5.13 | 2.63 | 4.38 | 3.62 | 6.13 | 4.250 | 0.40 | 7/16 | 0.99 | 3.03 | 3.08 | 1.88 | 1.50 | 0.16 | 2.87 | 9 | |
| QMCW09J112S | 1 3/4 in. | | | | | | | | | | | | | | | | | | | | |
| QMCW09J045S | 45 mm | 22210 | 39.1 | 41.1 | 136.7 | 71.4 | 113.5 | 96.5 | 162.1 | 114.3 | 9.7 | 10 | 24.9 | 77.2 | 79.2 | 48.0 | 38.1 | 4.3 | 72.9 | 4.5 | |
| QMCW10J115S | 1 15/16 in. | | 1.54 | 1.62 | 5.38 | 2.81 | 4.47 | 3.80 | 6.38 | 4.500 | 0.38 | 7/16 | 0.98 | 3.04 | 3.12 | 1.89 | 1.50 | 0.17 | 2.87 | 10 | |
| QMCW10J200S | 2 in. | | | | | | | | | | | | | | | | | | | | |
| QMCW10J050S | 50 mm | 22211 | 45.7 | 47.8 | 152.4 | 75.9 | 127.0 | 107.7 | 181.1 | 127.0 | 14.2 | 12 | 28.7 | 86.9 | 88.9 | 50.5 | 41.4 | 7.62 | 79.2 | 5.9 | |
| QMCW11J203S | 2 3/16 in. | | 1.80 | 1.88 | 6.00 | 2.99 | 5.00 | 4.24 | 7.13 | 5.000 | 0.56 | 1/2 | 1.13 | 3.42 | 3.50 | 1.99 | 1.63 | 0.30 | 3.12 | 13 | |
| QMCW11J204S | 2 1/4 in. | | | | | | | | | | | | | | | | | | | | |
| QMCW11J055S | 55 mm | 22213 | 47.5 | 49.5 | 165.1 | 91.9 | 139.7 | 116.8 | 193.8 | 139.7 | 12.7 | 12 | 31.5 | 90.2 | 92.2 | 54.1 | 42.9 | 4.31 | 85.6 | 7.3 | |
| QMCW13J060S | 60 mm | | 1.87 | 1.95 | 6.50 | 3.62 | 5.50 | 4.60 | 7.63 | 5.500 | 0.50 | 1/2 | 1.24 | 3.55 | 3.63 | 2.13 | 1.69 | 0.17 | 3.37 | 16 | |
| QMCW13J207S | 2 7/16 in. | | | | | | | | | | | | | | | | | | | | |
| QMCW13J208S | 2 1/2 in. | 22215 | 46.0 | 48.0 | 190.5 | 101.9 | 162.1 | 134.6 | 222.3 | 161.9 | 12.7 | 16 | 31.8 | 93.5 | 95.5 | 60.2 | 47.8 | 1.5 | 91.9 | 10.0 | |
| QMCW13J065S | 65 mm | | 1.81 | 1.89 | 7.50 | 4.01 | 6.38 | 5.30 | 8.75 | 6.375 | 0.50 | 5/8 | 1.25 | 3.68 | 3.76 | 2.37 | 1.88 | 0.06 | 3.62 | 22 | |
| QMCW15J211S | 2 11/16 in. | | | | | | | | | | | | | | | | | | | | |
| QMCW15J212S | 2 3/4 in. | 22218 | 62.5 | 64.5 | 219.2 | 120.9 | 187.5 | 154.9 | 260.4 | 187.3 | 22.4 | 20 | 36.6 | 110.2 | 112.3 | 65.8 | 47.8 | 7.9 | 102.4 | 14.5 | |
| QMCW15J070S | 70 mm | | 2.15 | 2.15 | 8.63 | 4.76 | 7.38 | 6.10 | 10.25 | 7.375 | 0.88 | 3/4 | 1.44 | 4.34 | 4.42 | 2.59 | 1.88 | 0.31 | 4.03 | 32 | |
| QMCW15J215S | 2 15/16 in. | | | | | | | | | | | | | | | | | | | | |
| QMCW15J300S | 3 in. | 22218 | 62.5 | 64.5 | 219.2 | 120.9 | 187.5 | 154.9 | 260.4 | 187.3 | 22.4 | 20 | 36.6 | 110.2 | 112.3 | 65.8 | 47.8 | 7.9 | 102.4 | 14.5 | |
| QMCW15J075S | 75 mm | | 2.46 | 2.54 | 8.63 | 4.76 | 7.38 | 6.10 | 10.25 | 7.375 | 0.88 | 3/4 | 1.44 | 4.34 | 4.42 | 2.59 | 1.88 | 0.31 | 4.03 | 32 | |
| QMCW18J303S | 3 3/16 in. | | | | | | | | | | | | | | | | | | | | |
| QMCW18J304S | 3 1/4 in. | 22218 | 62.5 | 64.5 | 219.2 | 120.9 | 187.5 | 154.9 | 260.4 | 187.3 | 22.4 | 20 | 36.6 | 110.2 | 112.3 | 65.8 | 47.8 | 7.9 | 102.4 | 14.5 | |
| QMCW18J080S | 80 mm | | 2.46 | 2.54 | 8.63 | 4.76 | 7.38 | 6.10 | 10.25 | 7.375 | 0.88 | 3/4 | 1.44 | 4.34 | 4.42 | 2.59 | 1.88 | 0.31 | 4.03 | 32 | |
| QMCW18J085S | 85 mm | | | | | | | | | | | | | | | | | | | | |
| QMCW18J307S | 3 7/16 in. | 22218 | 62.5 | 64.5 | 219.2 | 120.9 | 187.5 | 154.9 | 260.4 | 187.3 | 22.4 | 20 | 36.6 | 110.2 | 112.3 | 65.8 | 47.8 | 7.9 | 102.4 | 14.5 | |
| QMCW18J308S | 3 1/2 in. | | 2.46 | 2.54 | 8.63 | 4.76 | 7.38 | 6.10 | 10.25 | 7.375 | 0.88 | 3/4 | 1.44 | 4.34 | 4.42 | 2.59 | 1.88 | 0.31 | 4.03 | 32 | |
| QMCW18J090S | 90 mm | | | | | | | | | | | | | | | | | | | | |

⁽¹⁾Pilot tolerance: +0/-0.05 mm (+0/-0.002 in.).

Continued on next page.



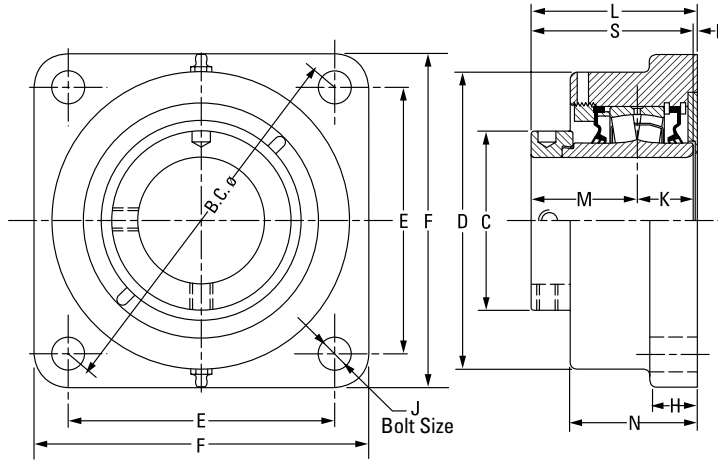
Continued from previous page.

| Bearing Part No. | Shaft Dia. | Bearing No. | B FIX | B EXP | B.C. | C | D | E | F | G ⁽¹⁾ | H | J | K | L FIX | L EXP | M | N | R | S | Wt. |
|----------------------------|-------------|-------------|--------------|--------------|-------------------------------|---------------|----------------|------------------------------|----------------|------------------|--------------|--------------------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|
| | | | 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. | mm in. | mm in. | mm in. | mm in. | mm in. |
| QMCW20J311S | 3 1/16 in. | 22220 | 63.5 2.50 | 65.5 2.58 | 238.3 9.38 | 152.4 6.00 | 206.5 8.13 | 168.4 6.63 | 276.4 10.88 | 206.4 8.125 | 25.4 1.00 | 20 3/4 | 41.4 1.63 | 120.7 4.75 | 122.7 4.83 | 75.2 2.96 | 57.2 2.25 | 4.1 0.16 | 116.6 4.59 | 19.5 43 |
| QMCW20J312S | 3 3/4 in. | | | | | | | | | | | | | | | | | | | |
| QMCW20J315S | 3 15/16 in. | | | | | | | | | | | | | | | | | | | |
| QMCW20J400S | 4 in. | | | | | | | | | | | | | | | | | | | |
| QMCW20J100S | 100 mm | 22222 | 76.5 3.01 | 78.5 3.09 | 298.5 11.75 ⁽²⁾ | 160.0 6.30 | 254.0 10.00 | 149.4 5.88 ⁽²⁾ | 342.9 13.50 | 260.4 10.250 | 25.4 1.00 | 20 3/4 ⁽²⁾ | 46.5 1.83 | 144.8 5.70 | 146.8 5.78 | 94.0 3.70 | 68.3 2.69 | 4.3 0.17 | 140.5 5.53 | 32.7 72 |
| QMCW22J110S ⁽²⁾ | 110 mm | | | | | | | | | | | | | | | | | | | |
| QMCW22J407S ⁽²⁾ | 4 7/16 in. | | | | | | | | | | | | | | | | | | | |
| QMCW22J408S ⁽²⁾ | 4 1/2 in. | | | | | | | | | | | | | | | | | | | |
| QMCW22J115S ⁽²⁾ | 115 mm | 22226 | 73.7 2.90 | 75.7 2.98 | 323.9 12.75 ⁽²⁾ | 175.0 6.89 | 266.7 10.50 | 162.1 6.38 ⁽²⁾ | 374.7 14.75 | 279.4 11.000 | 26.2 1.03 | 24 7/8 ⁽²⁾ | 58.7 2.31 | 151.4 5.96 | 153.4 6.04 | 94.7 3.73 | 77.9 3.065 | -1.8 -0.07 | 153.4 6.04 | 46.3 102 |
| QMCW26J415S ⁽²⁾ | 4 15/16 in. | | | | | | | | | | | | | | | | | | | |
| QMCW26J500S ⁽²⁾ | 5 in. | | | | | | | | | | | | | | | | | | | |
| QMCW26J130S ⁽²⁾ | 130 mm | | | | | | | | | | | | | | | | | | | |
| QMCW30J507S ⁽²⁾ | 5 7/16 in. | 23230 | 82.8 3.26 | 84.8 3.34 | 368.3 14.50 ⁽²⁾ | 205.0 8.07 | 304.8 12.00 | 184.2 7.25 ⁽²⁾ | 431.8 17.00 | 330.2 13.000 | 26.2 1.03 | 24 7/8 ⁽²⁾ | 75.9 2.99 | 204.2 8.04 | 206.2 8.12 | 116.1 4.57 | 121.4 4.78 | 12.2 0.48 | 192.0 7.56 | 102.5 226 |
| QMCW30J508S ⁽²⁾ | 5 1/2 in. | | | | | | | | | | | | | | | | | | | |
| QMCW30J140S ⁽²⁾ | 140 mm | | | | | | | | | | | | | | | | | | | |
| QMCW30J515S ⁽²⁾ | 5 15/16 in. | | | | | | | | | | | | | | | | | | | |
| QMCW30J600S ⁽²⁾ | 6 in. | 23230 | 82.8 3.26 | 84.8 3.34 | 419.1 16.50 ⁽²⁾ | 205.0 8.07 | 304.8 12.00 | 209.6 8.25 ⁽²⁾ | 482.6 19.00 | 355.6 14.000 | 26.2 1.03 | 24 7/8 ⁽²⁾ | 75.9 2.99 | 211.3 8.32 | 213.4 8.40 | 116.1 4.57 | 128.5 5.06 | 19.3 0.76 | 192.0 7.56 | 101.6 224 |
| QMCW30J150S ⁽²⁾ | 150 mm | | | | | | | | | | | | | | | | | | | |
| QMCW34J607S ⁽²⁾ | 6 7/16 in. | | | | | | | | | | | | | | | | | | | |
| QMCW34J608S ⁽²⁾ | 6 1/2 in. | | | | | | | | | | | | | | | | | | | |
| QMCW34J170S ⁽²⁾ | 170 mm | 23234 | 85.9 3.38 | 87.9 3.46 | 431.8 17.00 | 235.0 9.25 | 355.6 14.00 | 215.9 8.50 | 482.6 19.00 | 381.0 15.000 | 28.7 1.13 | 24 1 ⁽²⁾ | 85.1 3.35 | 216.2 8.51 | 218.2 8.59 | 129.0 5.08 | 130.3 5.13 | 2.0 0.08 | 214.1 8.43 | 152.4 336 |
| QMCW34J615S ⁽²⁾ | 6 15/16 in. | | | | | | | | | | | | | | | | | | | |
| QMCW34J700S ⁽²⁾ | 7 in. | | | | | | | | | | | | | | | | | | | |
| QMCW34J180S ⁽²⁾ | 180 mm | | | | | | | | | | | | | | | | | | | |

⁽¹⁾Pilot tolerance: +0/-0.05 mm (+0/-0.002 in.).

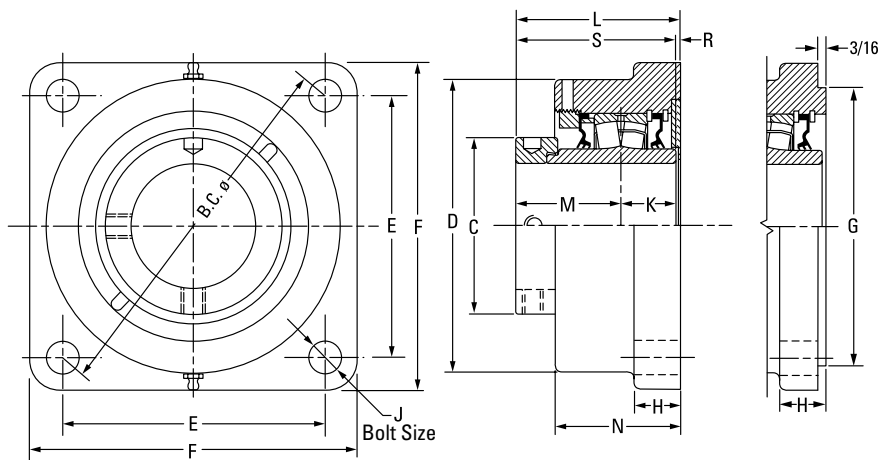
⁽²⁾Six-bolt housing.

QMF FOUR-BOLT SQUARE FLANGE BLOCKS



| Bearing Part No. | Shaft Dia. | Bearing No. | B.C. | C | D | E | F | H | J | K | L FIX | L EXP | M | N | R | S | Wt. |
|------------------|-------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| | 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. | mm in. | mm in. | lbs. kg |
| QMF08J035S | 35 mm | 22208 | 127.7 | 60.5 | 93.7 | 88.9 | 117.6 | 22.4 | 12 | 25.4 | 72.9 | 74.9 | 44.5 | 57.2 | 3.0 | 69.9 | 4.5 |
| QMF08J107S | 1 7/16 in. | | 4.95 | 2.38 | 3.69 | 3.50 | 4.63 | 0.88 | 1/2 | 1.00 | 2.87 | 2.95 | 1.75 | 2.25 | 0.12 | 2.75 | 10 |
| QMF08J108S | 1 1/2 in. | 22208 | 148.3 | 60.5 | 108.0 | 104.9 | 136.7 | 22.4 | 12 | 25.4 | 73.7 | 75.7 | 44.5 | 59.4 | 3.8 | 69.9 | 4.5 |
| QMF09J111S | 1 1/8 in. | 22209 | 148.3 | 66.8 | 118.4 | 104.9 | 136.7 | 22.4 | 12 | 25.4 | 79.5 | 81.5 | 47.8 | 63.5 | 6.4 | 73.2 | 5.0 |
| QMF09J040S | 40 mm | | 5.84 | 2.63 | 4.66 | 4.13 | 5.38 | 0.88 | 1/2 | 1.00 | 3.13 | 3.21 | 1.88 | 2.50 | 0.25 | 2.88 | 11 |
| QMF09J112S | 1 3/4 in. | 22209 | 157.2 | 66.8 | 118.4 | 111.3 | 143.0 | 22.4 | 12 | 25.4 | 79.5 | 81.5 | 47.8 | 63.5 | 6.4 | 72.9 | 5.0 |
| QMF09J045S | 45 mm | | 6.19 | 2.63 | 4.66 | 4.38 | 5.63 | 0.88 | 1/2 | 1.00 | 3.13 | 3.21 | 1.88 | 2.50 | 0.25 | 2.87 | 11 |
| QMF10J115S | 1 1/8 in. | 22210 | 157.2 | 71.4 | 120.7 | 111.3 | 139.7 | 22.4 | 12 | 24.4 | 80.8 | 82.8 | 48.0 | 65.0 | 7.9 | 72.9 | 5.0 |
| QMF10J200S | 2 in. | | 6.19 | 2.81 | 4.75 | 4.38 | 5.50 | 0.88 | 1/2 | 0.98 | 3.18 | 3.26 | 1.89 | 2.56 | 0.31 | 2.87 | 11 |
| QMF10J050S | 50 mm | 22211 | 175.0 | 75.9 | 130.3 | 124.0 | 157.2 | 25.4 | 16 | 28.7 | 82.8 | 84.8 | 50.5 | 66.8 | 3.3 | 79.2 | 6.4 |
| QMF11J203S | 2 3/16 in. | | 6.89 | 2.99 | 5.13 | 4.88 | 6.19 | 1.00 | 5/8 | 1.13 | 3.26 | 3.34 | 1.99 | 2.63 | 0.13 | 3.12 | 14 |
| QMF11J204S | 2 1/4 in. | 22213 | 193.0 | 91.9 | 146.1 | 136.7 | 168.4 | 25.4 | 16 | 31.5 | 88.6 | 90.7 | 54.1 | 72.4 | 3.0 | 85.6 | 7.7 |
| QMF11J055S | 55 mm | | 7.60 | 3.62 | 5.75 | 5.38 | 6.63 | 1.00 | 5/8 | 1.24 | 3.49 | 3.57 | 2.13 | 2.85 | 0.12 | 3.37 | 17 |
| QMF13J060S | 60 mm | 22215 | 215.6 | 101.9 | 168.9 | 152.4 | 189.0 | 26.9 | 20 | 31.8 | 96.0 | 98.0 | 60.2 | 76.2 | 4.1 | 91.9 | 10.4 |
| QMF13J207S | 2 7/16 in. | | 8.49 | 4.01 | 6.65 | 6.00 | 7.44 | 1.06 | 3/4 | 1.25 | 3.78 | 3.86 | 2.37 | 3.00 | 0.16 | 3.62 | 23 |
| QMF13J208S | 2 1/2 in. | 22218 | 251.7 | 120.9 | 193.8 | 177.8 | 219.2 | 33.3 | 20 | 36.6 | 107.2 | 109.2 | 66.8 | 84.1 | 4.8 | 102.4 | 15.9 |
| QMF13J065S | 65 mm | | 9.91 | 4.76 | 7.63 | 7.00 | 8.63 | 1.31 | 3/4 | 1.44 | 4.22 | 4.30 | 2.59 | 3.31 | 0.19 | 4.03 | 35 |
| QMF15J211S | 2 1/16 in. | 22220 | 278.4 | 152.4 | 224.0 | 196.9 | 253.2 | 38.1 | 24 | 41.4 | 126.2 | 128.3 | 75.2 | 103.1 | 9.4 | 116.6 | 24.9 |
| QMF15J212S | 2 3/4 in. | | 10.96 | 6.00 | 8.82 | 7.75 | 9.97 | 1.50 | 7/8 | 1.63 | 4.97 | 5.05 | 2.96 | 4.06 | 0.37 | 4.59 | 55 |
| QMF15J070S | 70 mm | 22222 | 314.5 | 160.0 | 256.8 | 222.3 | 276.4 | 38.1 | 24 | 46.5 | 150.1 | 152.1 | 94.0 | 106.9 | 9.7 | 140.5 | 28.6 |
| QMF15J215S | 2 15/16 in. | | 12.38 | 6.30 | 10.11 | 8.75 | 10.88 | 1.50 | 7/8 | 1.83 | 5.91 | 5.99 | 3.70 | 4.21 | 0.38 | 5.53 | 63 |
| QMF15J300S | 3 in. | 22222 | 314.5 | 160.0 | 256.8 | 222.3 | 276.4 | 38.1 | 24 | 46.5 | 150.1 | 152.1 | 94.0 | 106.9 | 9.7 | 140.5 | 28.6 |
| QMF15J075S | 75 mm | | 12.38 | 6.30 | 10.11 | 8.75 | 10.88 | 1.50 | 7/8 | 1.83 | 5.91 | 5.99 | 3.70 | 4.21 | 0.38 | 5.53 | 63 |
| QMF18J303S | 3 3/16 in. | 22222 | 314.5 | 160.0 | 256.8 | 222.3 | 276.4 | 38.1 | 24 | 46.5 | 150.1 | 152.1 | 94.0 | 106.9 | 9.7 | 140.5 | 28.6 |
| QMF18J304S | 3 1/4 in. | | 12.38 | 6.30 | 10.11 | 8.75 | 10.88 | 1.50 | 7/8 | 1.83 | 5.91 | 5.99 | 3.70 | 4.21 | 0.38 | 5.53 | 63 |
| QMF18J080S | 80 mm | 22222 | 314.5 | 160.0 | 256.8 | 222.3 | 276.4 | 38.1 | 24 | 46.5 | 150.1 | 152.1 | 94.0 | 106.9 | 9.7 | 140.5 | 28.6 |
| QMF18J085S | 85 mm | | 12.38 | 6.30 | 10.11 | 8.75 | 10.88 | 1.50 | 7/8 | 1.83 | 5.91 | 5.99 | 3.70 | 4.21 | 0.38 | 5.53 | 63 |
| QMF18J307S | 3 7/16 in. | 22222 | 314.5 | 160.0 | 256.8 | 222.3 | 276.4 | 38.1 | 24 | 46.5 | 150.1 | 152.1 | 94.0 | 106.9 | 9.7 | 140.5 | 28.6 |
| QMF18J308S | 3 1/2 in. | | 12.38 | 6.30 | 10.11 | 8.75 | 10.88 | 1.50 | 7/8 | 1.83 | 5.91 | 5.99 | 3.70 | 4.21 | 0.38 | 5.53 | 63 |
| QMF18J090S | 90 mm | 22222 | 314.5 | 160.0 | 256.8 | 222.3 | 276.4 | 38.1 | 24 | 46.5 | 150.1 | 152.1 | 94.0 | 106.9 | 9.7 | 140.5 | 28.6 |
| QMF20J311S | 3 1/16 in. | | 12.38 | 6.30 | 10.11 | 8.75 | 10.88 | 1.50 | 7/8 | 1.83 | 5.91 | 5.99 | 3.70 | 4.21 | 0.38 | 5.53 | 63 |
| QMF20J312S | 3 3/4 in. | 22222 | 314.5 | 160.0 | 256.8 | 222.3 | 276.4 | 38.1 | 24 | 46.5 | 150.1 | 152.1 | 94.0 | 106.9 | 9.7 | 140.5 | 28.6 |
| QMF20J315S | 3 15/16 in. | | 12.38 | 6.30 | 10.11 | 8.75 | 10.88 | 1.50 | 7/8 | 1.83 | 5.91 | 5.99 | 3.70 | 4.21 | 0.38 | 5.53 | 63 |
| QMF20J400S | 4 in. | 22222 | 314.5 | 160.0 | 256.8 | 222.3 | 276.4 | 38.1 | 24 | 46.5 | 150.1 | 152.1 | 94.0 | 106.9 | 9.7 | 140.5 | 28.6 |
| QMF20J100S | 100 mm | | 12.38 | 6.30 | 10.11 | 8.75 | 10.88 | 1.50 | 7/8 | 1.83 | 5.91 | 5.99 | 3.70 | 4.21 | 0.38 | 5.53 | 63 |
| QMF22J110S | 110 mm | 22222 | 314.5 | 160.0 | 256.8 | 222.3 | 276.4 | 38.1 | 24 | 46.5 | 150.1 | 152.1 | 94.0 | 106.9 | 9.7 | 140.5 | 28.6 |
| QMF22J407S | 4 7/16 in. | | 12.38 | 6.30 | 10.11 | 8.75 | 10.88 | 1.50 | 7/8 | 1.83 | 5.91 | 5.99 | 3.70 | 4.21 | 0.38 | 5.53 | 63 |
| QMF22J408S | 4 1/2 in. | 22222 | 314.5 | 160.0 | 256.8 | 222.3 | 276.4 | 38.1 | 24 | 46.5 | 150.1 | 152.1 | 94.0 | 106.9 | 9.7 | 140.5 | 28.6 |
| QMF22J115S | 115 mm | | 12.38 | 6.30 | 10.11 | 8.75 | 10.88 | 1.50 | 7/8 | 1.83 | 5.91 | 5.99 | 3.70 | 4.21 | 0.38 | 5.53 | 63 |

QMFL FOUR-BOLT SQUARE FLANGE BLOCKS



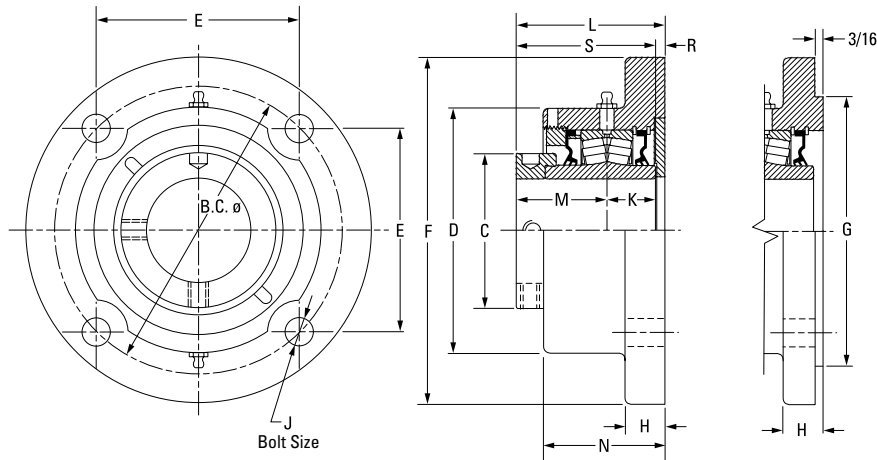
| Bearing Part No. | Shaft Dia. | Bearing No. | B.C. | C | D | E | F | G ⁽¹⁾⁽²⁾⁽³⁾ | H | J | K | L FIX | L EXP | M | N | R | S | Wt. |
|------------------|-------------|-------------|-----------|-----------|-----------|-----------|-----------|------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| | 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. | mm in. | mm in. | mm in. | kg lbs. |
| QMFL08J035S | 35 mm | 22208 | 127.0 | 60.5 | 93.7 | 89.9 | 117.6 | N/A | 22.4 | 12 | 25.4 | 72.9 | 74.9 | 44.5 | 57.2 | 3.0 | 69.9 | 4.5 |
| QMFL08J107S | 1 7/16 in. | | 5.00 | 2.38 | 3.69 | 3.54 | 4.63 | | 0.88 | 1/2 | 1.00 | 2.87 | 2.95 | 1.75 | 2.25 | 0.12 | 2.75 | 10 |
| QMFL08J108S | 1 1/2 in. | | | | | | | | | | | | | | | | | |
| QMFL09J111S | 1 11/16 in. | 22209 | 139.7 | 66.8 | 118.4 | 98.8 | 136.7 | N/A | 22.4 | 12 | 25.1 | 79.5 | 81.5 | 47.8 | 63.5 | 6.6 | 72.9 | 5.0 |
| QMFL09J040S | 40 mm | | 5.50 | 2.63 | 4.66 | 3.89 | 5.38 | | 0.88 | 1/2 | 0.99 | 3.13 | 3.21 | 1.88 | 2.50 | 0.26 | 2.87 | 11 |
| QMFL09J112S | 1 3/4 in. | | | | | | | | | | | | | | | | | |
| QMFL09J045S | 45 mm | 22210 | 146.1 | 71.4 | 115.3 | 103.4 | 131.8 | N/A | 23.1 | 12 | 24.9 | 80.8 | 82.8 | 48.0 | 62.5 | 7.9 | 72.9 | 5.0 |
| QMFL10J115S | 1 5/16 in. | | 5.75 | 2.81 | 4.54 | 4.07 | 5.19 | | 0.91 | 1/2 | 0.98 | 3.18 | 3.26 | 1.89 | 2.46 | 0.31 | 2.87 | 11 |
| QMFL10J200S | 2 in. | | | | | | | | | | | | | | | | | |
| QMFL10J050S | 50 mm | 22211 | 162.1 | 76.0 | 130.3 | 114.3 | 149.4 | N/A | 19.1 | 16 | 28.7 | 83.3 | 85.3 | 50.5 | 66.8 | 3.8 | 79.2 | 6.4 |
| QMFL11J203S | 2 3/16 in. | | 6.38 | 2.99 | 5.13 | 4.50 | 5.88 | | 0.75 | 5/8 | 1.13 | 3.28 | 3.36 | 1.99 | 2.63 | 0.15 | 3.12 | 14 |
| QMFL11J204S | 2 1/4 in. | | | | | | | | | | | | | | | | | |
| QMFL11J055S | 55 mm | 22213 | 171.5 | 91.9 | 146.1 | 121.2 | 157.2 | N/A | 25.4 | 16 | 31.5 | 88.9 | 90.7 | 54.1 | 72.6 | 3.0 | 85.6 | 7.7 |
| QMFL13J060S | 60 mm | | 6.75 | 3.62 | 5.75 | 4.77 | 6.19 | | 1.00 | 5/8 | 1.24 | 3.50 | 3.57 | 2.13 | 2.86 | 0.12 | 3.37 | 17 |
| QMFL13J207S | 2 7/16 in. | | | | | | | | | | | | | | | | | |
| QMFL13J208S | 2 1/2 in. | 22215 | 200.2 | 101.9 | 168.4 | 141.2 | 182.6 | N/A | 26.9 | 20 | 31.8 | 95.8 | 97.8 | 60.2 | 74.4 | 3.8 | 91.9 | 10.4 |
| QMFL13J065S | 65 mm | | 7.88 | 4.01 | 6.63 | 5.56 | 7.19 | | 1.06 | 3/4 | 1.25 | 3.77 | 3.85 | 2.37 | 2.93 | 0.15 | 3.62 | 23 |
| QMFL15J211S | 2 1/16 in. | | | | | | | | | | | | | | | | | |
| QMFL15J212S | 2 3/8 in. | 22218 | 241.3 | 120.9 | 193.8 | 170.7 | 212.9 | 187.33 | 32.5 | 20 | 36.6 | 106.4 | 108.5 | 65.8 | 86.4 | 4.1 | 102.4 | 15.9 |
| QMFL15J070S | 70 mm | | 7.88 | 4.01 | 6.63 | 5.56 | 7.19 | 7.375 | 1.28 | 3/4 | 1.44 | 4.19 | 4.27 | 2.59 | 3.40 | 0.16 | 4.03 | 35 |
| QMFL15J215S | 2 1/16 in. | | | | | | | | | | | | | | | | | |
| QMFL15J300S | 3 in. | 22220 | 273.1 | 152.4 | 229.6 | 193.0 | 241.3 | 215.90 | 38.1 | 24 | 41.4 | 132.3 | 134.4 | 75.2 | 104.6 | 15.7 | 116.6 | 24.9 |
| QMFL15J075S | 75 mm | | 10.75 | 6.00 | 9.04 | 7.60 | 9.50 | 8.500 | 1.50 | 1 | 1.63 | 5.21 | 5.29 | 2.96 | 4.12 | 0.62 | 4.59 | 55 |
| QMFL18J303S | 3 3/16 in. | | | | | | | | | | | | | | | | | |
| QMFL18J304S | 3 1/4 in. | 22220 | 273.1 | 152.4 | 229.6 | 193.0 | 241.3 | 215.90 | 38.1 | 24 | 41.4 | 132.3 | 134.4 | 75.2 | 104.6 | 15.7 | 116.6 | 24.9 |
| QMFL18J080S | 80 mm | | 10.75 | 6.00 | 9.04 | 7.60 | 9.50 | 8.500 | 1.50 | 1 | 1.63 | 5.21 | 5.29 | 2.96 | 4.12 | 0.62 | 4.59 | 55 |
| QMFL18J085S | 85 mm | | | | | | | | | | | | | | | | | |
| QMFL18J307S | 3 7/16 in. | 22220 | 273.1 | 152.4 | 229.6 | 193.0 | 241.3 | 215.90 | 38.1 | 24 | 41.4 | 132.3 | 134.4 | 75.2 | 104.6 | 15.7 | 116.6 | 24.9 |
| QMFL18J308S | 3 1/2 in. | | 10.75 | 6.00 | 9.04 | 7.60 | 9.50 | 8.500 | 1.50 | 1 | 1.63 | 5.21 | 5.29 | 2.96 | 4.12 | 0.62 | 4.59 | 55 |
| QMFL18J090S | 90 mm | | | | | | | | | | | | | | | | | |
| QMFL20J311S | 3 1/16 in. | 22220 | 273.1 | 152.4 | 229.6 | 193.0 | 241.3 | 215.90 | 38.1 | 24 | 41.4 | 132.3 | 134.4 | 75.2 | 104.6 | 15.7 | 116.6 | 24.9 |
| QMFL20J312S | 3 3/8 in. | | 10.75 | 6.00 | 9.04 | 7.60 | 9.50 | 8.500 | 1.50 | 1 | 1.63 | 5.21 | 5.29 | 2.96 | 4.12 | 0.62 | 4.59 | 55 |
| QMFL20J315S | 3 1/16 in. | | | | | | | | | | | | | | | | | |
| QMFL20J400S | 4 in. | 22220 | 273.1 | 152.4 | 229.6 | 193.0 | 241.3 | 215.90 | 38.1 | 24 | 41.4 | 132.3 | 134.4 | 75.2 | 104.6 | 15.7 | 116.6 | 24.9 |
| QMFL20J100S | 100 mm | | 10.75 | 6.00 | 9.04 | 7.60 | 9.50 | 8.500 | 1.50 | 1 | 1.63 | 5.21 | 5.29 | 2.96 | 4.12 | 0.62 | 4.59 | 55 |

⁽¹⁾Pilot tolerance: +0/-0.05 mm (+0/-0.002 in.).

⁽²⁾Add (p) to the end of the housing designation in the part number to order with pilot using G dimension.

⁽³⁾Piloted flange blocks will be quoted (price and delivery) upon request. For optional spigot on flange side, insert the letter P as seen in the following example: QMFP**J***S.

QMFY ROUND FLANGE BLOCKS



| Bearing Part No. | Shaft Dia. | Bearing No. | B.C. | C | D | E | F | G ⁽¹⁾⁽²⁾⁽³⁾ | H | J | K | L FIX | L EXP | M | N | R | S | Wt. |
|----------------------------|-------------|-------------|---------------------|-----------|-----------|---------------------|-----------|------------------------|-----------|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| | 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. | mm in. | mm in. | mm in. | kg lbs. |
| QMFY08J035S ⁽⁴⁾ | 35 mm | 22208 | 127.0 | 60.5 | 108.0 | 110.0 | 158.8 | 90.50 | 19.1 | 12 | 25.4 | 73.2 | 75.2 | 44.5 | 57.4 | 3.3 | 69.9 | 4.5 |
| QMFY08J107S ⁽⁴⁾ | 1 7/16 in. | | 5.00 ⁽⁴⁾ | 2.38 | 4.25 | 4.33 ⁽⁴⁾ | 6.25 | 3.563 | 0.75 | 1/2 ⁽⁴⁾ | 1.00 | 2.88 | 2.96 | 1.75 | 2.26 | 0.13 | 2.75 | 10 |
| QMFY08J108S ⁽⁴⁾ | 1 1/2 in. | | | | | | | | | | | | | | | | | |
| QMFY09J040S | 40 mm | 22209 | 139.7 | 66.8 | 104.9 | 98.8 | 171.5 | 103.20 | 20.6 | 12 | 25.1 | 76.2 | 78.2 | 47.8 | 60.5 | 3.0 | 72.9 | 5.0 |
| QMFY09J111S | 1 11/16 in. | | 5.50 | 2.63 | 4.13 | 3.89 | 6.75 | 4.063 | 0.81 | 1/2 | 0.99 | 3.00 | 3.08 | 1.88 | 2.38 | 0.12 | 2.87 | 11 |
| QMFY09J112S | 1 3/4 in. | | | | | | | | | | | | | | | | | |
| QMFY09J045S | 45 mm | 22210 | 146.1 | 71.4 | 115.3 | 103.4 | 177.8 | 111.13 | 19.1 | 12 | 24.9 | 75.9 | 78.0 | 48.0 | 58.4 | 3.0 | 72.9 | 5.4 |
| QMFY10J115S | 1 5/16 in. | | 5.75 | 2.81 | 4.54 | 4.07 | 7.00 | 4.375 | 0.75 | 1/2 | 0.98 | 2.99 | 3.07 | 1.89 | 2.30 | 0.12 | 2.87 | 12 |
| QMFY10J200S | 2 in. | | | | | | | | | | | | | | | | | |
| QMFY10J050S | 50 mm | 22211 | 162.1 | 75.9 | 130.3 | 114.3 | 196.9 | 127.00 | 19.1 | 16 | 28.7 | 82.3 | 84.3 | 50.8 | 62.0 | 3.0 | 79.2 | 6.8 |
| QMFY11J203S | 2 3/8 in. | | 6.38 | 2.99 | 5.13 | 4.50 | 7.75 | 5.000 | 0.75 | 5/8 | 1.13 | 3.24 | 3.32 | 2.00 | 2.44 | 0.12 | 3.12 | 15 |
| QMFY11J204S | 2 1/4 in. | | | | | | | | | | | | | | | | | |
| QMFY11J055S | 55 mm | 22213 | 171.5 | 91.9 | 146.1 | 121.2 | 206.5 | 138.13 | 23.9 | 16 | 31.5 | 88.1 | 90.4 | 54.1 | 72.4 | 2.3 | 85.6 | 8.6 |
| QMFY13J060S | 60 mm | | 6.75 | 3.62 | 5.75 | 4.77 | 8.13 | 5.438 | 0.94 | 5/8 | 1.24 | 3.47 | 3.56 | 2.13 | 2.85 | 0.09 | 3.37 | 19 |
| QMFY13J207S | 2 7/16 in. | | | | | | | | | | | | | | | | | |
| QMFY13J208S | 2 1/2 in. | 22215 | 199.9 | 101.9 | 168.4 | 141.2 | 241.3 | 160.35 | 23.9 | 20 | 31.8 | 98.6 | 100.6 | 60.2 | 76.2 | 6.4 | 91.9 | 12.7 |
| QMFY13J065S | 65 mm | | 7.87 | 4.01 | 6.63 | 5.56 | 9.50 | 6.313 | 0.94 | 3/4 | 1.25 | 3.88 | 3.96 | 2.37 | 3.00 | 0.25 | 3.62 | 28 |
| QMFY15J211S | 2 11/16 in. | | | | | | | | | | | | | | | | | |
| QMFY15J212S | 2 3/4 in. | | | | | | | | | | | | | | | | | |
| QMFY15J070S | 70 mm | | | | | | | | | | | | | | | | | |
| QMFY15J215S | 2 5/8 in. | | | | | | | | | | | | | | | | | |
| QMFY15J300S | 3 in. | | | | | | | | | | | | | | | | | |
| QMFY15J075S | 75 mm | | | | | | | | | | | | | | | | | |

⁽¹⁾Pilot tolerance: +0/-0.05 mm (+0/-0.002 in.).

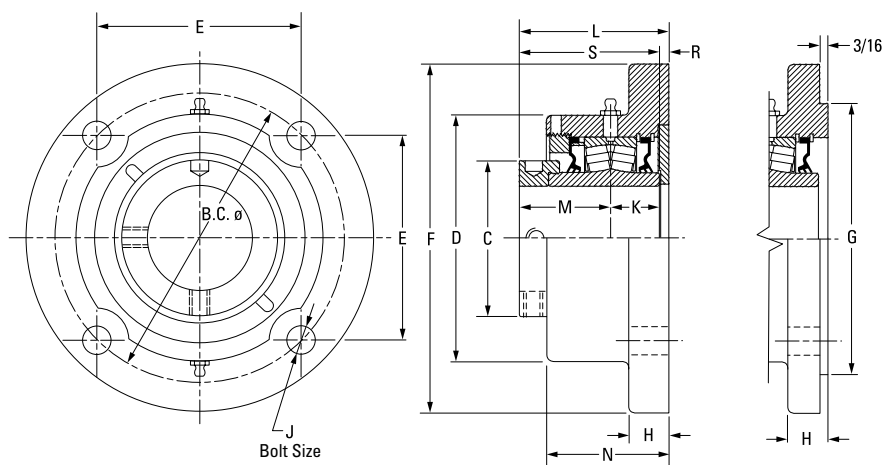
⁽²⁾Add (p) to the end of the housing designation in the part number to order with pilot using G dimension.

⁽³⁾Piloted flange blocks will be quoted (price and delivery) upon request. For optional spigot on flange side, insert the letter P as seen in the following example: QMFP**J***S.

⁽⁴⁾Three-bolt housing.

NOTE: Housings also are available with a 3/16 in. machined pilot. Please contact your Timken engineer for more information.

Continued on next page.



Continued from previous page.

| Bearing Part No. | Shaft Dia. | Bearing No. | B.C. | C | D | E | F | G ⁽¹⁾⁽²⁾⁽³⁾ | H | J | K | L FIX | L EXP | M | N | R | S | Wt. | |
|----------------------------|---------------|-------------|--------------------------------------|----------------------|-----------------------|-------------------------------------|-----------------------|------------------------|--------------|----------------------------|--------------|---------------|---------------|--------------|---------------|--------------|---------------|-------------|--|
| | 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. | mm in. | mm in. | mm in. | kg lbs. | |
| QMFY18J303S | 3 3/16 in. | | | | | | | | | | | | | | | | | | |
| QMFY18J304S | 3 1/4 in. | | | | | | | | | | | | | | | | | | |
| QMFY18J080S | 80 mm | 22218 | 241.3 9.50 | 120.9 4.76 | 193.8 7.63 | 170.7 6.72 | 282.7 11.13 | N/A | 28.7 1.13 | 24 7/8 | 36.6 1.44 | 108.7 4.28 | 110.7 4.36 | 65.8 2.59 | 85.3 3.36 | 6.4 0.25 | 102.4 4.03 | 19.1 42 | |
| QMFY18J085S | 85 mm | | | | | | | | | | | | | | | | | | |
| QMFY18J307S | 3 7/16 in. | | | | | | | | | | | | | | | | | | |
| QMFY18J308S | 3 1/2 in. | | | | | | | | | | | | | | | | | | |
| QMFY18J090S | 90 mm | | | | | | | | | | | | | | | | | | |
| QMFY20J311S | 3 11/16 in. | 22220 | 273.1 10.75 | 152.4 6.00 | 222.5 8.76 | 193.0 7.60 | 320.8 12.63 | N/A | 28.7 1.13 | 24 1 | 41.4 1.63 | 123.7 4.87 | 125.7 4.95 | 75.2 2.96 | 103.1 4.06 | 6.9 0.27 | 116.6 4.59 | 29.9 66 | |
| QMFY20J312S | 3 3/4 in. | | | | | | | | | | | | | | | | | | |
| QMFY20J315S | 3 15/16 in. | | | | | | | | | | | | | | | | | | |
| QMFY20J400S | 4 in. | | | | | | | | | | | | | | | | | | |
| QMFY20J100S | 100 mm | | | | | | | | | | | | | | | | | | |
| QMFY22J110S ⁽⁵⁾ | 110 mm | 22222 | 327.2 12.88 ⁽⁵⁾ | 160.0 6.30 | 254.0 10.00 | 163.6 6.44 ⁽⁵⁾ | 384.3 15.13 | N/A | 31.8 1.25 | 24 1 ⁽⁵⁾ | 46.5 1.83 | 143.5 5.65 | 145.5 5.73 | 94.0 3.70 | 100.3 3.95 | 3.0 0.12 | 140.5 5.53 | 46.3 102 | |
| QMFY22J407S ⁽⁵⁾ | 4 7/16 in. | | | | | | | | | | | | | | | | | | |
| QMFY22J408S ⁽⁵⁾ | 4 1/2 in. | | | | | | | | | | | | | | | | | | |
| QMFY22J115S ⁽⁵⁾ | 115 mm | | | | | | | | | | | | | | | | | | |
| QMFY26J125S ⁽⁵⁾ | 125 mm | 22226 | 355.6 14.00 ⁽⁵⁾ | 175.0 6.89 | 284.2 11.19 | 177.8 7.00 ⁽⁵⁾ | 419.1 16.50 | N/A | 38.1 1.50 | 24 1 1/8 ⁽⁵⁾ | 58.7 2.31 | 170.2 6.70 | 172.2 6.78 | 94.7 3.73 | 138.4 5.45 | 16.8 0.66 | 153.4 6.04 | 52.2 115 | |
| QMFY26J415S ⁽⁵⁾ | 4 15/16 in. | | | | | | | | | | | | | | | | | | |
| QMFY26J500S ⁽⁵⁾ | 5 in. | | | | | | | | | | | | | | | | | | |
| QMFY26J130S ⁽⁵⁾ | 130 mm | | | | | | | | | | | | | | | | | | |

¹⁾Pilot tolerance: +0/-0.05 mm (+0/-0.002 in.).

²⁾Add (p) to the end of the housing designation in the part number to order with pilot using G dimension.

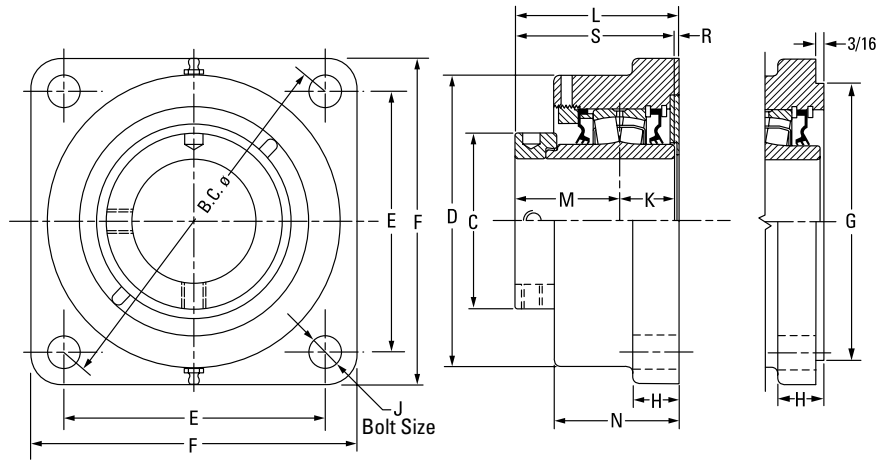
³⁾Piloted flange blocks will be quoted (price and delivery) upon request. For optional spigot on flange side, insert the letter P as seen in the following example: QMFY**J***S.

⁴⁾Three-bolt housing.

⁵⁾Six-bolt housing.

NOTE: Housings also are available with a 3/16 in. machined pilot. Please contact your Timken engineer for more information.

QMF5000 SERIES SQUARE FLANGE BLOCKS



| Bearing Part No. | Shaft Dia. | Bearing No. | B.C. | C | D | E | F | G ⁽¹⁾⁽²⁾⁽³⁾ | H | J | K | L FIX | L EXP | M | N | R | S | Wt. | | | | | | | | | | | | | | | | | |
|------------------|-------------|-------------|--------|--------|--------|--------|--------|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|------|------|------|------|------|-------|------|-----|------|------|------|------|------|------|------|----|--|
| | 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. | mm in. | mm in. | mm in. | kg lbs. | | | | | | | | | | | | | | | | | |
| QMF08J035S | 35 mm | 22208 | 133.6 | 59.9 | 93.7 | 94.5 | 117.6 | 90.50 | 22.1 | 12 | 25.4 | 72.9 | 74.9 | 44.5 | 57.2 | 3.0 | 69.9 | 4.5 | | | | | | | | | | | | | | | | | |
| QMF08J107S | 1 7/16 in. | | 5.26 | 2.36 | 3.69 | 3.72 | 4.63 | 3.563 | 0.88 | 1/2 | 1.00 | 2.87 | 2.95 | 1.75 | 2.25 | 0.12 | 2.75 | 10 | | | | | | | | | | | | | | | | | |
| QMF08J108S | 1 1/2 in. | 22208 | 139.7 | 59.9 | 108.0 | 98.8 | 130.3 | 103.20 | 22.1 | 12 | 25.4 | 73.7 | 75.7 | 44.5 | 59.4 | 3.81 | 69.9 | 4.5 | | | | | | | | | | | | | | | | | |
| QMF09J040S | 40 mm | 22209 | 139.7 | 66.8 | 108.0 | 98.8 | 130.3 | 103.20 | 22.1 | 12 | 25.1 | 79.5 | 81.5 | 47.8 | 63.5 | 6.4 | 72.9 | 5.0 | | | | | | | | | | | | | | | | | |
| QMF09J111S | 1 11/16 in. | | | | | | | | | | | | | | | | | | 5.50 | 2.63 | 4.25 | 3.89 | 5.13 | 4.063 | 0.88 | 1/2 | 0.99 | 3.13 | 3.21 | 1.88 | 2.50 | 0.25 | 2.87 | 11 | |
| QMF09J112S | 1 3/4 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QMF09J045S | 45 mm | 22210 | 146.1 | 71.4 | 120.7 | 103.1 | 134.9 | 111.13 | 22.1 | 12 | 24.9 | 80.8 | 82.8 | 48.0 | 65.0 | 7.9 | 72.9 | 5.0 | | | | | | | | | | | | | | | | | |
| QMF10J115S | 1 15/16 in. | | | | | | | | | | | | | | | | | | 5.75 | 2.81 | 4.75 | 4.06 | 5.31 | 4.375 | 0.88 | 1/2 | 0.98 | 3.18 | 3.26 | 1.89 | 2.56 | 0.31 | 2.87 | 11 | |
| QMF10J200S | 2 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QMF10J050S | 50 mm | 22211 | 161.5 | 75.9 | 130.3 | 114.3 | 149.4 | 127.00 | 25.4 | 16 | 28.7 | 83.1 | 85.1 | 50.5 | 66.8 | 3.3 | 79.2 | 5.0 | | | | | | | | | | | | | | | | | |
| QMF11J203S | 2 3/16 in. | | | | | | | | | | | | | | | | | | 6.36 | 2.99 | 5.13 | 4.50 | 5.88 | 5.000 | 1.00 | 5/8 | 1.13 | 3.27 | 3.35 | 1.99 | 2.63 | 0.13 | 3.12 | 11 | |
| QMF11J204S | 2 1/4 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QMF11J055S | 55 mm | 22213 | 180.8 | 91.9 | 146.1 | 127.8 | 157.2 | 138.13 | 25.4 | 16 | 31.5 | 89.2 | 91.2 | 54.1 | 72.4 | 3.0 | 85.6 | 6.4 | | | | | | | | | | | | | | | | | |
| QMF13J060S | 60 mm | | | | | | | | | | | | | | | | | | 7.12 | 3.62 | 5.75 | 5.03 | 6.19 | 5.438 | 1.00 | 5/8 | 1.24 | 3.51 | 3.59 | 2.13 | 2.85 | 0.12 | 3.37 | 14 | |
| QMF13J207S | 2 7/16 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QMF13J208S | 2 1/2 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QMF13J065S | 65 mm | 22215 | 215.9 | 102.1 | 168.9 | 152.7 | 189.0 | 160.35 | 26.9 | 20 | 31.8 | 96.0 | 98.0 | 60.2 | 76.2 | 4.1 | 91.9 | 7.7 | | | | | | | | | | | | | | | | | |
| QMF15J211S | 2 11/16 in. | | | | | | | | | | | | | | | | | | 8.50 | 4.02 | 6.65 | 6.01 | 7.44 | 6.313 | 1.06 | 3/4 | 1.25 | 3.78 | 3.86 | 2.37 | 3.00 | 0.16 | 3.62 | 17 | |
| QMF15J212S | 2 3/4 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QMF15J070S | 70 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QMF15J215S | 2 15/16 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QMF15J300S | 3 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QMF15J075S | 75 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

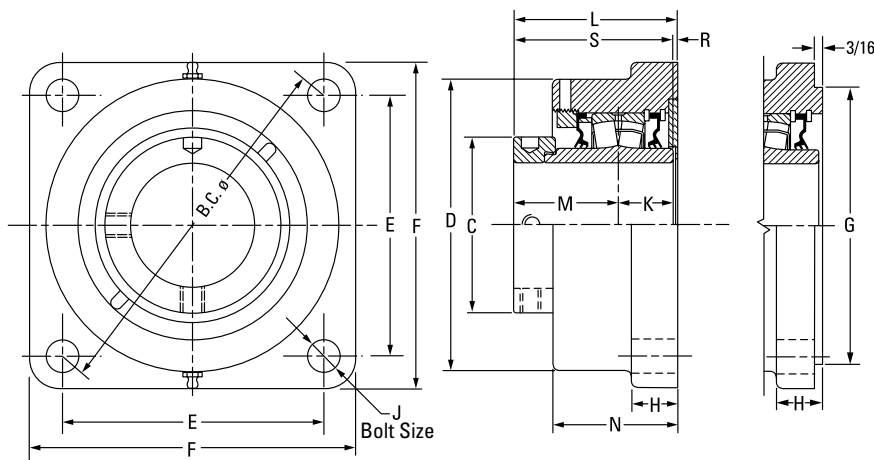
⁽¹⁾Pilot tolerance: +0/-0.05 mm (+0/-0.002 in.).

⁽²⁾Add (p) to the end of the housing designation in the part number to order with pilot using G dimension.

⁽³⁾Piloted flange blocks will be quoted (price and delivery) upon request. For optional spigot on flange side, insert the letter P as seen in the following example: QMF**J***S.

⁽⁴⁾Six-bolt round housing.

Continued on next page.



Continued from previous page.

| Bearing Part No. | Shaft Dia. | Bearing No. | B.C. | C | D | E | F | G ⁽¹⁾⁽²⁾⁽³⁾ | H | J | K | L FIX | L EXP | M | N | R | S | Wt. |
|----------------------------|-------------|-------------|-------------------------------|---------------|----------------|------------------------------|----------------|------------------------|--------------|----------------------------|--------------|---------------|---------------|--------------|---------------|--------------|---------------|-------------|
| | 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. | mm in. | mm in. | mm in. | kg lbs. |
| QMF518J303S | 3 3/8 in. | 22218 | 241.3 9.50 | 120.9 4.76 | 193.8 7.63 | 170.7 6.72 | 212.9 8.38 | 187.33 7.375 | 33.3 1.31 | 20 3/4 | 36.6 1.44 | 107.2 4.22 | 109.2 4.30 | 65.8 2.59 | 84.1 3.31 | 4.8 0.19 | 102.4 4.03 | 10.4 23 |
| QMF518J304S | 3 1/4 in. | | | | | | | | | | | | | | | | | |
| QMF518J080S | 80 mm | | | | | | | | | | | | | | | | | |
| QMF518J085S | 85 mm | | | | | | | | | | | | | | | | | |
| QMF518J307S | 3 7/8 in. | | | | | | | | | | | | | | | | | |
| QMF518J308S | 3 1/2 in. | | | | | | | | | | | | | | | | | |
| QMF518J090S | 90 mm | 22220 | 298.5 11.75 | 152.4 6.00 | 215.9 8.50 | 211.1 8.31 | 268.2 10.56 | 225.43 8.875 | 38.1 1.50 | 24 7/8 | 41.4 1.63 | 126.0 4.96 | 128.0 5.04 | 75.2 2.96 | 103.1 4.06 | 9.4 0.37 | 116.8 4.60 | 15.9 35 |
| QMF520J311S | 3 11/16 in. | | | | | | | | | | | | | | | | | |
| QMF520J312S | 3 3/4 in. | | | | | | | | | | | | | | | | | |
| QMF520J315S | 3 15/16 in. | | | | | | | | | | | | | | | | | |
| QMF520J400S | 4 in. | | | | | | | | | | | | | | | | | |
| QMF520J100S | 100 mm | | | | | | | | | | | | | | | | | |
| QMF522J110S ⁽⁴⁾ | 110 mm | 22222 | 327.2 12.88 ⁽¹⁾ | 160.0 6.30 | 256.5 10.10 | 163.6 6.44 ⁽¹⁾ | 384.3 15.13 | 263.53 10.375 | 31.8 1.25 | 24 1 ⁽¹⁾ | 46.5 1.83 | 143.8 5.66 | 145.8 5.74 | 94.0 3.70 | 106.9 4.21 | 3.3 0.13 | 140.5 5.53 | 46.3 102 |
| QMF522J407S ⁽⁴⁾ | 4 7/16 in. | | | | | | | | | | | | | | | | | |
| QMF522J408S ⁽⁴⁾ | 4 1/2 in. | | | | | | | | | | | | | | | | | |
| QMF522J115S ⁽⁴⁾ | 115 mm | | | | | | | | | | | | | | | | | |
| QMF526J125S ⁽⁴⁾ | 125 mm | | | | | | | | | | | | | | | | | |
| QMF526J415S ⁽⁴⁾ | 4 15/16 in. | | | | | | | | | | | | | | | | | |
| QMF526J500S ⁽⁴⁾ | 5 in. | 22226 | 355.6 14.00 ⁽¹⁾ | 175.0 6.89 | 284.2 11.19 | 177.8 7.00 ⁽¹⁾ | 419.1 16.50 | 284.18 11.188 | 38.1 1.50 | 24 1 1/8 ⁽¹⁾ | 58.7 2.31 | 172.2 6.78 | 174.2 6.86 | 94.7 3.73 | 135.1 5.32 | 17.3 0.68 | 153.4 6.04 | 52.2 115 |
| QMF526J130S ⁽⁴⁾ | 130 mm | | | | | | | | | | | | | | | | | |

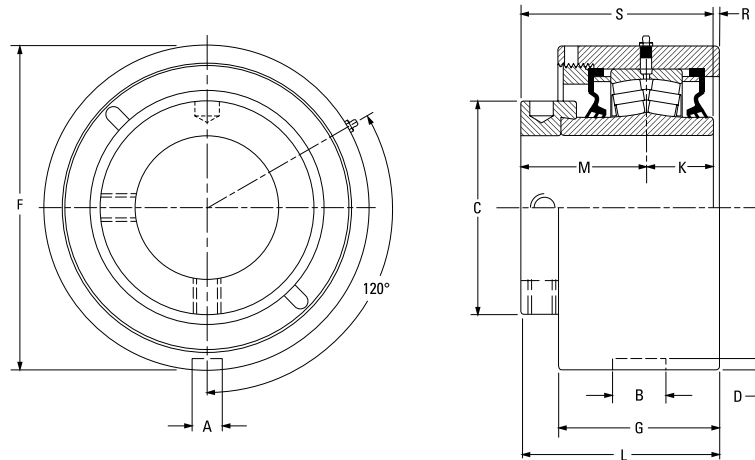
⁽¹⁾Pilot tolerance: +0/-0.05 mm (+0/-0.002 in.).

⁽²⁾Add (p) to the end of the housing designation in the part number to order with pilot using G dimension.

⁽³⁾Piloted flange blocks will be quoted (price and delivery) upon request. For optional spigot on flange side, insert the letter P as seen in the following example: QMFP**J***S.

⁽⁴⁾Six-bolt round housing.

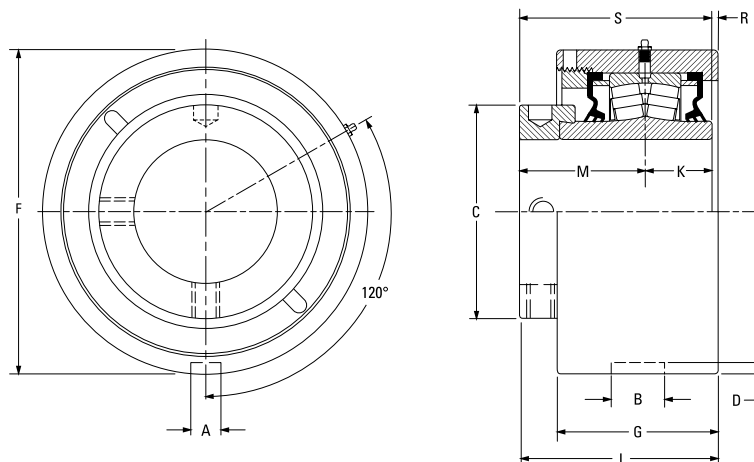
QMMC CARTRIDGE BLOCKS



| Bearing Part No. | Shaft Dia. | Bearing No. | A | B | C | D | F | G | K | L FIX | L EXP | M | R | S | Wt. |
|----------------------------|-------------|-------------|--------------|--------------|---------------|-------------|---|---------------|--------------|----------------|---------------|--------------|--------------|---------------|------------|
| | 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. | kg lbs. |
| QMMC10J115S | 1 1/16 in. | 22210 | 13.5 0.53 | 23.1 0.91 | 71.4 2.81 | 4.8 0.19 | 104.78 (+0/-0.05) 4.125 (+0/-0.002) | 62.2 2.45 | 24.9 0.98 | 79.2 3.12 | 81.3 3.20 | 48.0 1.89 | 6.1 0.24 | 72.9 2.87 | 3.6 8 |
| QMMC10J200S | 2 in. | | | | | | | | | | | | | | |
| QMMC10J050S | 50 mm | | | | | | | | | | | | | | |
| QMMC11J203S | 2 3/16 in. | 22211 | 13.5 0.53 | 23.1 0.91 | 75.9 2.99 | 4.8 0.19 | 115.09 (+0/-0.05) 4.531 (+0/-0.002) | 65.5 2.58 | 28.7 1.13 | 83.6 3.29 | 85.6 3.37 | 50.5 1.99 | 4.1 0.16 | 79.2 3.12 | 4.5 10 |
| QMMC11J204S | 2 1/4 in. | | | | | | | | | | | | | | |
| QMMC11J055S | 55 mm | | | | | | | | | | | | | | |
| QMMC13J060S ⁽¹⁾ | 60 mm | 22213 | 13.5 0.53 | 23.1 0.91 | 91.9 3.62 | 4.8 0.19 | 127.00 (+0/-0.05) 5.000 (+0/-0.002) | 69.3 2.73 | 31.5 1.24 | 85.6 3.37 | 87.6 3.45 | 54.1 2.13 | 0.0 0.00 | 85.6 3.37 | 5.4 12 |
| QMMC13J207S ⁽¹⁾ | 2 7/16 in. | | | | | | | | | | | | | | |
| QMMC13J208S ⁽¹⁾ | 2 1/2 in. | | | | | | | | | | | | | | |
| QMMC13J065S ⁽¹⁾ | 65 mm | 22215 | 15.0 0.59 | 26.2 1.03 | 101.9 4.01 | 6.4 0.25 | 149.225 (+0/-0.05) 5.875 (+0/-0.002) | 79.8 3.14 | 31.8 1.25 | 100.1 3.94 | 102.1 4.02 | 60.2 2.37 | 8.1 0.32 | 91.9 3.62 | 8.2 18 |
| QMMC15J211S | 2 1/16 in. | | | | | | | | | | | | | | |
| QMMC15J212S | 2 3/4 in. | | | | | | | | | | | | | | |
| QMMC15J070S | 70 mm | 22218 | 15.0 0.59 | 26.2 1.06 | 101.9 4.01 | 6.4 0.25 | 149.225 (+0/-0.05) 5.875 (+0/-0.002) | 79.8 3.14 | 31.8 1.25 | 100.1 3.94 | 102.1 4.02 | 60.2 2.37 | 8.1 0.32 | 91.9 3.62 | 8.2 18 |
| QMMC15J215S | 2 15/16 in. | | | | | | | | | | | | | | |
| QMMC15J300S | 3 in. | | | | | | | | | | | | | | |
| QMMC15J075S | 75 mm | 22220 | 19.8 0.78 | 32.5 1.28 | 152.4 6.00 | 7.9 0.31 | 206.375 (+0/-0.05) 8.125 (+0/-0.002) | 105.2 4.14 | 41.4 1.63 | 128.0 5.039 | 130.0 5.12 | 75.2 2.96 | 11.4 0.45 | 116.6 4.59 | 14.5 32 |
| QMMC18J303S | 3 3/16 in. | | | | | | | | | | | | | | |
| QMMC18J304S | 3 1/4 in. | | | | | | | | | | | | | | |
| QMMC18J080S | 80 mm | 22218 | 15.0 0.59 | 26.9 1.06 | 120.9 4.76 | 7.1 0.28 | 171.45 (+0/-0.05) 6.750 (+0/-0.002) | 87.6 3.45 | 36.6 1.44 | 109.7 4.32 | 111.8 4.40 | 65.0 2.56 | 7.4 0.29 | 102.4 4.03 | 11.8 26 |
| QMMC18J085S | 85 mm | | | | | | | | | | | | | | |
| QMMC18J307S | 3 7/16 in. | | | | | | | | | | | | | | |
| QMMC18J308S | 3 1/2 in. | 22220 | 19.8 0.78 | 32.5 1.28 | 152.4 6.00 | 7.9 0.31 | 206.375 (+0/-0.05) 8.125 (+0/-0.002) | 105.2 4.14 | 41.4 1.63 | 128.0 5.039 | 130.0 5.12 | 75.2 2.96 | 11.4 0.45 | 116.6 4.59 | 14.5 32 |
| QMMC18J090S | 90 mm | | | | | | | | | | | | | | |
| QMMC20J311S | 3 1/16 in. | | | | | | | | | | | | | | |
| QMMC20J312S | 3 3/4 in. | 22220 | 19.8 0.78 | 32.5 1.28 | 152.4 6.00 | 7.9 0.31 | 206.375 (+0/-0.05) 8.125 (+0/-0.002) | 105.2 4.14 | 41.4 1.63 | 128.0 5.039 | 130.0 5.12 | 75.2 2.96 | 11.4 0.45 | 116.6 4.59 | 14.5 32 |
| QMMC20J315S | 3 15/16 in. | | | | | | | | | | | | | | |
| QMMC20J400S | 4 in. | | | | | | | | | | | | | | |
| QMMC20J100S | 100 mm | | | | | | | | | | | | | | |

⁽¹⁾The grub screw is located in the external housing nut to secure to the housing.

Continued on next page.

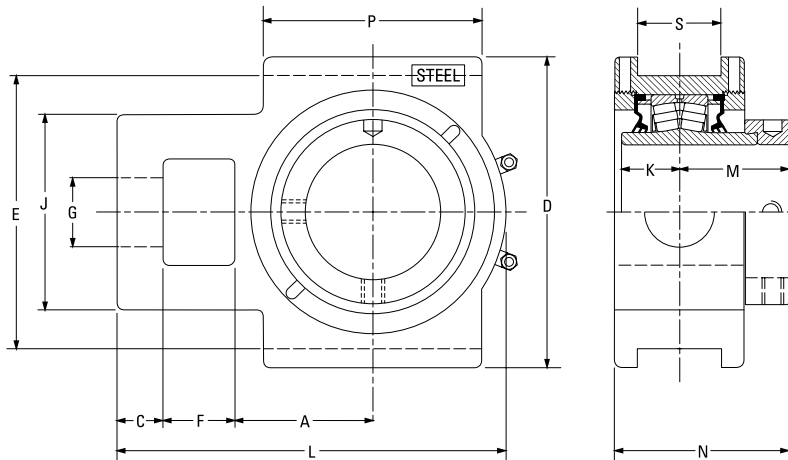


Continued from previous page.

| Bearing Part No. | Shaft Dia. | Bearing No. | A | B | C | D | F | G | K | L FIX | L EXP | M | R | S | Wt. |
|------------------|---------------|-------------|--------------|--------------|---------------|-------------|---|---------------|--------------|---------------|---------------|---------------|---------------|---------------|--------------|
| | 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. | kg lbs. |
| QMMC22J110S | 110 mm | 22222 | 19.8 0.78 | 38.1 1.50 | 160.0 6.30 | 7.9 0.31 | 222.25 (+0/-0.08) 8.75 (+0/-0.003) | 108.5 4.27 | 46.5 1.83 | 148.0 5.83 | 150.1 5.91 | 94.0 3.70 | 7.6 0.30 | 140.5 5.53 | 18.1 40 |
| QMMC22J407S | 4 7/16 in. | | | | | | | | | | | | | | |
| QMMC22J408S | 4 1/2 in. | | | | | | | | | | | | | | |
| QMMC22J115S | 115 mm | | | | | | | | | | | | | | |
| QMMC26J125S | 125 mm | 22226 | 19.8 0.78 | 38.1 1.50 | 175.0 6.89 | 7.9 0.31 | 265.13 (+0/-0.08) 10.438 (+0/-0.003) | 141.7 5.58 | 58.7 2.31 | 165.4 6.51 | 167.4 6.59 | 94.7 3.73 | 11.9 0.47 | 153.4 6.04 | 31.8 70 |
| QMMC26J415S | 4 15/16 in. | | | | | | | | | | | | | | |
| QMMC26J500S | 5 in. | | | | | | | | | | | | | | |
| QMMC26J130S | 130 mm | | | | | | | | | | | | | | |
| QMMC30J507S | 5 7/16 in. | 23230 | 19.8 0.78 | 38.1 1.50 | 205.0 8.07 | 5.6 0.22 | 292.10 (+0/-0.08) 11.500 (+0/-0.003) | 154.4 6.08 | 75.9 2.99 | 188.2 7.41 | 190.2 7.49 | 116.1 4.57 | -3.8 -0.15 | 192.0 7.56 | 88.0 194 |
| QMMC30J508S | 5 1/2 in. | | | | | | | | | | | | | | |
| QMMC30J140S | 140 mm | | | | | | | | | | | | | | |
| QMMC30J515S | 5 15/16 in. | | | | | | | | | | | | | | |
| QMMC30J600S | 6 in. | 23230 | 19.8 0.78 | 38.1 1.50 | 205.0 8.07 | 5.6 0.22 | 311.15 (+0/-0.08) 12.250 (+0/-0.003) | 154.4 6.08 | 75.9 2.99 | 188.2 7.41 | 190.2 7.49 | 116.1 4.57 | -3.8 -0.15 | 192.0 7.56 | 87.1 192 |
| QMMC30J150S | 150 mm | | | | | | | | | | | | | | |
| QMMC34J607S | 6 7/16 in. | | | | | | | | | | | | | | |
| QMMC34J608S | 6 1/2 in. | | | | | | | | | | | | | | |
| QMMC34J170S | 170 mm | 23234 | 19.8 0.78 | 38.1 1.50 | 235.0 9.25 | 5.6 0.22 | 344.50 (+0/-0.08) 13.563 (+0/-0.003) | 181.1 7.13 | 85.1 3.35 | 219.5 8.64 | 221.5 8.72 | 129.0 5.08 | 5.33 0.21 | 214.1 8.43 | 155.6 343 |
| QMMC34J615S | 6 15/16 in. | | | | | | | | | | | | | | |
| QMMC34J700S | 7 in. | | | | | | | | | | | | | | |
| QMMC34J180S | 180 mm | | | | | | | | | | | | | | |

⁽¹⁾The grub screw is located in the external housing nut to secure to the housing.

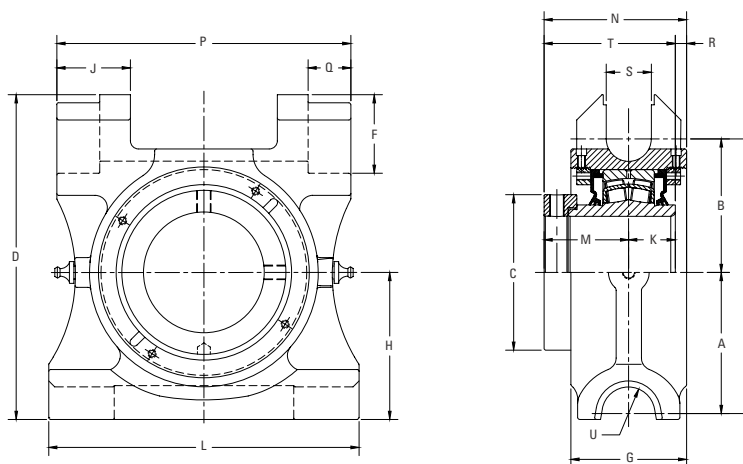
QMTU TAKE-UP BLOCKS



| Bearing Part No. | Shaft Dia. | Bearing No. | A | C | D | E | F | G | J | K | L | M | N | P | S | Wt. |
|------------------|------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| | 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. | mm in. | kg lbs. |
| QMTU10J115S | 1 1/8 in. | 22210 | 54.1 | 19.1 | 120.7 | 101.6 | 26.9 | 26.9 | 73.2 | 24.9 | 153.4 | 48.0 | 76.7 | 88.9 | 17.5 | 7.7 |
| QMTU10J200S | 2 in. | | 2.13 | 0.75 | 4.75 | 4.00 | 1.06 | 1.06 | 2.88 | 0.98 | 6.04 | 1.89 | 3.02 | 3.50 | 0.69 | 17 |
| QMTU10J050S | 50 mm | | | | | | | | | | | | | | | |
| QMTU11J203S | 2 3/8 in. | 22211 | 60.5 | 19.1 | 133.4 | 114.3 | 30.2 | 30.2 | 88.9 | 28.7 | 167.9 | 50.5 | 82.8 | 95.3 | 20.6 | 9.5 |
| QMTU11J204S | 2 1/2 in. | | 2.38 | 0.75 | 5.25 | 4.50 | 1.19 | 1.19 | 3.50 | 1.13 | 6.61 | 1.99 | 3.26 | 3.75 | 0.81 | 21 |
| QMTU11J055S | 55 mm | | | | | | | | | | | | | | | |
| QMTU13J060S | 60 mm | 22213 | 69.9 | 22.4 | 149.4 | 130.3 | 33.3 | 34.9 | 95.3 | 31.5 | 193.8 | 54.1 | 90.7 | 120.7 | 26.9 | 12.2 |
| QMTU13J207S | 2 7/8 in. | | 2.75 | 0.88 | 5.88 | 5.13 | 1.31 | 1.38 | 3.75 | 1.24 | 7.63 | 2.13 | 3.57 | 4.75 | 1.06 | 27 |
| QMTU13J208S | 2 1/2 in. | | | | | | | | | | | | | | | |
| QMTU13J065S | 65 mm | 22215 | 76.2 | 25.4 | 171.5 | 150.9 | 39.6 | 39.6 | 108.0 | 31.8 | 219.7 | 60.2 | 97.0 | 120.7 | 46.0 | 15.9 |
| QMTU15J211S | 2 1/8 in. | | 3.00 | 1.00 | 6.75 | 5.94 | 1.56 | 1.56 | 4.25 | 1.25 | 8.65 | 2.37 | 3.82 | 4.75 | 1.81 | 35 |
| QMTU15J212S | 2 3/4 in. | | | | | | | | | | | | | | | |
| QMTU15J070S | 70 mm | 22218 | 92.2 | 25.4 | 193.8 | 173.0 | 46.0 | 49.3 | 124.0 | 36.6 | 257.0 | 65.8 | 106.4 | 158.8 | 46.0 | 20.0 |
| QMTU15J300S | 3 in. | | 3.63 | 1.00 | 7.63 | 6.81 | 1.81 | 1.94 | 4.88 | 1.44 | 10.12 | 2.59 | 4.19 | 6.25 | 1.81 | 44 |
| QMTU15J075S | 75 mm | | | | | | | | | | | | | | | |
| QMTU18J303S | 3 3/8 in. | 22220 | 104.9 | 28.7 | 239.8 | 219.2 | 54.1 | 52.3 | 143.0 | 41.4 | 296.9 | 75.4 | 120.4 | 177.8 | 52.3 | 26.3 |
| QMTU18J304S | 3 1/4 in. | | 4.13 | 1.13 | 9.44 | 8.63 | 2.13 | 2.06 | 5.63 | 1.63 | 11.69 | 2.97 | 4.74 | 7.00 | 2.06 | 58 |
| QMTU18J080S | 80 mm | | | | | | | | | | | | | | | |
| QMTU18J085S | 85 mm | 22222 | 128.5 | 38.1 | 263.7 | 241.3 | 54.1 | 54.1 | 162.1 | 46.5 | 341.4 | 94.0 | 143.8 | 199.9 | 52.3 | 36.4 |
| QMTU18J307S | 3 7/8 in. | | 5.06 | 1.50 | 10.38 | 9.50 | 2.13 | 2.13 | 6.38 | 1.83 | 13.44 | 3.70 | 5.66 | 7.87 | 2.06 | 80 |
| QMTU18J308S | 3 1/2 in. | | | | | | | | | | | | | | | |
| QMTU18J090S | 90 mm | 22226 | 134.9 | 63.5 | 285.8 | 260.4 | 63.5 | 60.5 | 177.8 | 58.7 | 396.7 | 94.7 | 151.1 | 228.6 | 52.3 | 60.8 |
| QMTU20J311S | 3 1/8 in. | | 5.31 | 2.50 | 11.25 | 10.25 | 2.50 | 2.38 | 7.00 | 2.31 | 15.62 | 3.73 | 5.95 | 9.00 | 2.06 | 134 |
| QMTU20J312S | 3 3/4 in. | | | | | | | | | | | | | | | |
| QMTU20J315S | 3 1/2 in. | 22226 | 134.9 | 63.5 | 285.8 | 260.4 | 63.5 | 60.5 | 177.8 | 58.7 | 396.7 | 94.7 | 151.1 | 228.6 | 52.3 | 60.8 |
| QMTU20J400S | 4 in. | | 5.31 | 2.50 | 11.25 | 10.25 | 2.50 | 2.38 | 7.00 | 2.31 | 15.62 | 3.73 | 5.95 | 9.00 | 2.06 | 134 |
| QMTU20J100S | 100 mm | | | | | | | | | | | | | | | |
| QMTU22J110S | 110 mm | 22222 | 128.5 | 38.1 | 263.7 | 241.3 | 54.1 | 54.1 | 162.1 | 46.5 | 341.4 | 94.0 | 143.8 | 199.9 | 52.3 | 36.4 |
| QMTU22J407S | 4 7/8 in. | | 5.06 | 1.50 | 10.38 | 9.50 | 2.13 | 2.13 | 6.38 | 1.83 | 13.44 | 3.70 | 5.66 | 7.87 | 2.06 | 80 |
| QMTU22J408S | 4 1/2 in. | | | | | | | | | | | | | | | |
| QMTU22J115S | 115 mm | 22226 | 134.9 | 63.5 | 285.8 | 260.4 | 63.5 | 60.5 | 177.8 | 58.7 | 396.7 | 94.7 | 151.1 | 228.6 | 52.3 | 60.8 |
| QMTU26J125S | 125 mm | | 5.31 | 2.50 | 11.25 | 10.25 | 2.50 | 2.38 | 7.00 | 2.31 | 15.62 | 3.73 | 5.95 | 9.00 | 2.06 | 134 |
| QMTU26J415S | 4 1/8 in. | | | | | | | | | | | | | | | |
| QMTU26J500S | 5 in. | 22226 | 134.9 | 63.5 | 285.8 | 260.4 | 63.5 | 60.5 | 177.8 | 58.7 | 396.7 | 94.7 | 151.1 | 228.6 | 52.3 | 60.8 |
| QMTU26J130S | 130 mm | | 5.31 | 2.50 | 11.25 | 10.25 | 2.50 | 2.38 | 7.00 | 2.31 | 15.62 | 3.73 | 5.95 | 9.00 | 2.06 | 134 |

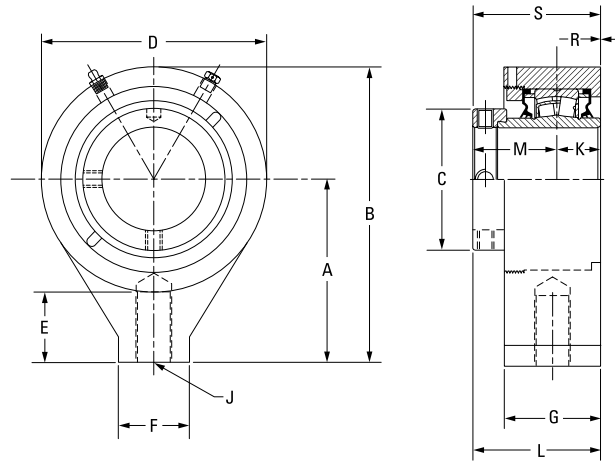
NOTE: Please refer to page 206 for take-up frames.

QMTP – TOP PULL TAKE-UP BLOCKS

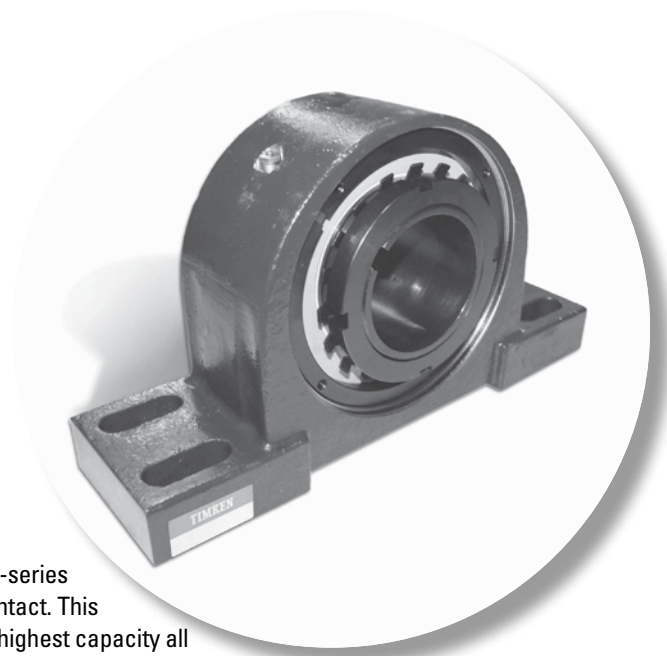


| Bearing Part No. | Shaft Dia. | Bearing No. | A | B | C | D | E | F | G | H | J | K | L | M | N | P | Q | R | S | T | U |
|------------------|-------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | 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. | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. |
| QMTP10J115S | 1 1/16 in. | 22210 | 71.4 | 60.5 | 71.4 | 163.6 | 131.8 | 42.2 | 62.7 | 77.8 | 41.9 | 24.9 | 165.1 | 48.0 | 79.3 | 152.4 | 20.6 | 6.4 | 22.4 | 72.9 | 20.6 |
| QMTP10J200S | 2 in. | | 2.81 | 2.38 | 2.81 | 6.44 | 5.19 | 1.66 | 2.47 | 3.06 | 1.65 | 0.98 | 6.50 | 1.89 | 3.12 | 6.00 | 0.81 | .025 | 0.88 | 2.87 | 0.81 |
| QMTP10J050S | 50 mm | | | | | | | | | | | | | | | | | | | | |
| QMTP11J203S | 2 3/16 in. | 22211 | 82.6 | 72.8 | 79.1 | 193.8 | 155.4 | 49.3 | 69.9 | 88.9 | 44.4 | 28.6 | 190.6 | 50.6 | 88.3 | 177.8 | 26.9 | 9.1 | 28.4 | 79.2 | 20.6 |
| QMTP11J204S | 2 1/4 in. | | 3.25 | 2.87 | 3.12 | 7.63 | 6.12 | 1.94 | 2.75 | 3.50 | 1.75 | 1.13 | 7.50 | 1.99 | 3.48 | 7.00 | 1.06 | 0.36 | 1.12 | 3.12 | 0.81 |
| QMTP11J055S | 55 mm | | | | | | | | | | | | | | | | | | | | |
| QMTP13J207S | 2 7/16 in. | 22213 | 96.8 | 84.6 | 91.9 | 210.3 | 181.4 | 47.8 | 81.0 | 97.5 | 44.5 | 31.5 | 215.9 | 54.2 | 94.7 | 203.2 | 26.9 | 9.0 | 28.4 | 85.7 | 20.6 |
| QMTP13J208S | 2 1/2 in. | | 3.81 | 3.33 | 3.62 | 8.28 | 7.14 | 1.88 | 3.19 | 3.84 | 1.75 | 1.24 | 8.50 | 2.13 | 3.73 | 8.00 | 1.06 | 0.35 | 1.12 | 3.37 | 0.81 |
| QMTP13J060S | 60 mm | | | | | | | | | | | | | | | | | | | | |
| QMTP15J211S | 2 11/16 in. | 22215 | 97.0 | 84.1 | 101.7 | 215.9 | 181.1 | 49.3 | 81.0 | 101.4 | 44.4 | 31.8 | 215.9 | 60.2 | 100.7 | 203.2 | 26.9 | 8.7 | 28.4 | 92.0 | 20.6 |
| QMTP15J212S | 2 3/4 in. | | 3.82 | 3.31 | 4.00 | 8.50 | 7.13 | 1.94 | 3.19 | 3.99 | 1.75 | 1.25 | 8.50 | 2.37 | 3.96 | 8.00 | 1.06 | 0.34 | 1.12 | 3.62 | 0.81 |
| QMTP15J070S | 70 mm | | | | | | | | | | | | | | | | | | | | |
| QMTP15J215S | 2 15/16 in. | 22218 | 109.7 | 103.9 | 121.0 | 252.5 | 213.6 | 61.3 | 90.0 | 114.3 | 57.1 | 36.3 | 241.3 | 65.8 | 110.9 | 228.6 | 33.3 | 8.8 | 35.1 | 102.1 | 20.6 |
| QMTP15J300S | 3 in. | | 4.32 | 4.09 | 4.76 | 9.94 | 8.41 | 2.41 | 3.54 | 4.50 | 2.25 | 1.43 | 9.50 | 2.59 | 4.37 | 9.00 | 1.31 | 0.35 | 1.38 | 4.02 | 0.81 |
| QMTP15J075S | 75 mm | | | | | | | | | | | | | | | | | | | | |
| QMTP18J303S | 3 3/16 in. | 22220 | 121.0 | 117.6 | 152.5 | 289.1 | 238.6 | 63.5 | 79.5 | 139.7 | 58.7 | 41.3 | 279.4 | 75.5 | 126.2 | 266.7 | 33.3 | 9.4 | 35.1 | 116.8 | 20.6 |
| QMTP18J304S | 3 1/4 in. | | 4.76 | 4.63 | 6.00 | 11.38 | 9.39 | 2.50 | 3.13 | 5.50 | 2.31 | 1.63 | 11.00 | 2.97 | 4.97 | 10.50 | 1.31 | 0.37 | 1.37 | 4.60 | 0.81 |
| QMTP18J080S | 80 mm | | | | | | | | | | | | | | | | | | | | |
| QMTP18J085S | 85 mm | | | | | | | | | | | | | | | | | | | | |
| QMTP18J307S | 3 7/16 in. | | | | | | | | | | | | | | | | | | | | |
| QMTP18J308S | 3 1/2 in. | | | | | | | | | | | | | | | | | | | | |
| QMTP18J090S | 90 mm | | | | | | | | | | | | | | | | | | | | |
| QMTP20J311S | 3 11/16 in. | | | | | | | | | | | | | | | | | | | | |
| QMTP20J312S | 3 3/4 in. | | | | | | | | | | | | | | | | | | | | |
| QMTP20J315S | 3 15/16 in. | | | | | | | | | | | | | | | | | | | | |
| QMTP20J400S | 4 in. | | | | | | | | | | | | | | | | | | | | |
| QMTP20J100S | 100 mm | | | | | | | | | | | | | | | | | | | | |

QMMH HANGER BLOCKS



| Bearing Part No. | Shaft Dia. | Bearing No. | A | B | C | D | E | F | G | J | K | L | M | R | S | Wt. |
|------------------|-------------|-------------|---------------|----------------|---------------|---------------|--------------|--------------|--------------|------------|--------------|--------------|--------------|-------------|---------------|------------|
| | mm in. | | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. | in. | mm in. | mm in. | mm in. | mm in. | mm in. | kg lbs. |
| QMMH15J211S | 2 1/16 in. | 22215 | 131.8 5.19 | 212.9 8.38 | 101.9 4.01 | 162.1 6.38 | 50.8 2.00 | 50.8 2.00 | 69.9 2.75 | 1-8UNC | 31.8 1.25 | 91.9 3.62 | 60.2 2.37 | 0.0 0.00 | 91.9 3.62 | 10.0 22 |
| QMMH15J212S | 2 3/8 in. | | | | | | | | | | | | | | | |
| QMMH15J070S | 70 mm | | | | | | | | | | | | | | | |
| QMMH15J215S | 2 15/16 in. | | | | | | | | | | | | | | | |
| QMMH15J300S | 3 in. | | | | | | | | | | | | | | | |
| QMMH15J075S | 75 mm | 22218 | 160.3 6.31 | 260.4 10.25 | 120.9 4.76 | 200.2 7.88 | 63.5 2.50 | 76.2 3.00 | 76.2 3.00 | 1 1/4-7UNC | 36.6 1.44 | 99.3 3.91 | 65.8 2.59 | 3.0 0.12 | 102.4 4.03 | 16.3 36 |
| QMMH18J303S | 3 3/16 in. | | | | | | | | | | | | | | | |
| QMMH18J304S | 3 1/4 in. | | | | | | | | | | | | | | | |
| QMMH18J080S | 80 mm | | | | | | | | | | | | | | | |
| QMMH18J085S | 85 mm | | | | | | | | | | | | | | | |
| QMMH18J307S | 3 7/16 in. | | | | | | | | | | | | | | | |
| QMMH18J308S | 3 1/2 in. | | | | | | | | | | | | | | | |
| QMMH18J090S | 90 mm | | | | | | | | | | | | | | | |



TA/DV TAA/DAA SERIES

The TA/DV and TAA/DAA series feature a 2300-series tapered adapter sleeve for increased shaft contact. This design offers the best shaft concentricity and highest capacity all the while having the ability to accommodate undersized shafting.

The following topics are covered within this section:

| | |
|--|-----|
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| TAAPA SAF-Style Two-Bolt Pillow Blocks | 178 |
| TAAPN SN-Style Two-Bolt Pillow Blocks | 179 |
| TAASD Special Duty-Style Two-Bolt Pillow Blocks | 180 |
| TAADI DI-Style Two-Bolt Pillow Block | 181 |
| TAAPKT 9000 Series Two-Bolt Pillow Blocks | 182 |
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TA/DV TAA/DAA SERIES

TA/TAA SERIES

TA series housed unit bearings are a direct drop-in replacement for SAF/SN split-cap housing dimensions.

DV/DAA SERIES

DV series housed units are a drop-in replacement for common American set screw mounted units.



Fig. 50. TA/DV series taper adapter insert.



Fig. 51. Double nut tapered adapter insert.

YOU HAVE CHOICES

For the TA/TAA and DV/DAA series, you can select from many seal options and housing styles, which are shown on page 15.

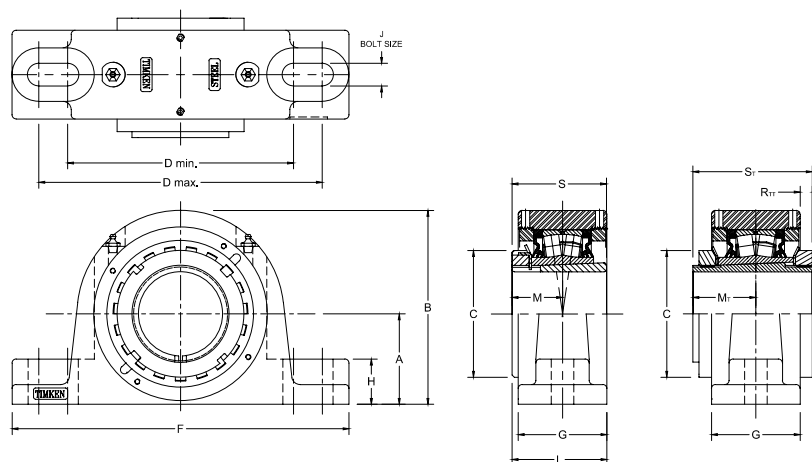
HOUSINGS

- Two-bolt pillow blocks
- Four-bolt pillow blocks
- Flange blocks
- Piloted flange cartridges
- Cartridge blocks

SEALS

- Labyrinth: DuPont™ Teflon® (T)
- Triple-lip: nitrile rubber (M), urethane (O) and Viton® (N)
- Double-lip: nitrile rubber (B) and Viton (C)
- Steel and urethane closed-end covers (CS)
- Steel and urethane open-end covers (CK) with:
 - DuPont Teflon (T)
 - Triple-lip seal (DR)
 - V-ring seal (VR)

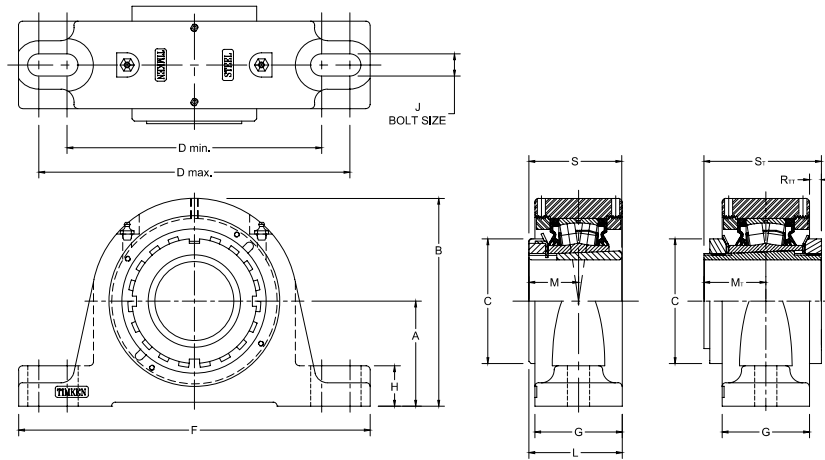
DAAP TWO-BOLT PILLOW BLOCKS



| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | F | G | H | J | L | M | M _T | R _T | S | S _T | Wt. |
|---------------------------------|-------------|-------------|---------------|---------------|---------------|----------------|----------------|----------------|---------------|--------------|-----------|---------------|--------------|----------------|----------------|---------------|----------------|------------|
| | 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. | mm in. | mm in. | mm in. | kg lbs. |
| DAAP09K107S | 1 7/16 in. | 22209 | 47.8 1.88 | 98.6 3.88 | 65.0 2.56 | 119.1 4.69 | 152.4 6.00 | 174.8 6.88 | 53.3 2.10 | 25.4 1.00 | 12 1/2 | 57.4 2.26 | 30.7 1.21 | 34.2 1.34 | 4.5 0.18 | 50.3 1.98 | 65.33 2.57 | 4.5 10 |
| DAAP09K108S | 1 1/2 in. | 22209 | 54.1 2.13 | 104.9 4.13 | 65.0 2.56 | 119.1 4.69 | 165.1 6.50 | 200.2 7.88 | 53.3 2.10 | 25.4 1.00 | 12 1/2 | 57.4 2.26 | 30.7 1.21 | | | 50.3 1.98 | | 4.5 10 |
| DAAP09K040S | 40 mm | | | | | | | | | | | | | | | | | |
| DAAP10K111S | 1 11/16 in. | 22210 | 54.1 2.13 | 114.3 4.50 | 70.1 2.76 | 144.8 5.70 | 165.1 6.50 | 200.2 7.88 | 54.9 2.16 | 31.8 1.25 | 12 1/2 | 61.0 2.40 | 33.5 1.32 | 37.6 1.48 | 6.3 0.25 | 55.1 2.17 | 71.33 2.81 | 5.0 11 |
| DAAP10K112S | 1 3/4 in. | 22210 | 57.2 2.25 | 117.3 4.62 | 70.1 2.76 | 158.8 6.25 | 180.8 7.12 | 225.6 8.88 | 54.9 2.16 | 31.8 1.25 | 16 5/8 | 61.0 2.40 | 33.5 1.32 | | | 55.1 2.17 | | 5.0 11 |
| DAAP10K045S | 45 mm | | | | | | | | | | | | | | | | | |
| DAAP11K115S | 1 15/16 in. | 22211 | 57.2 2.25 | 123.4 4.86 | 74.9 2.95 | 152.4 6.00 | 181.1 7.13 | 225.6 8.88 | 61.7 2.43 | 31.8 1.25 | 16 5/8 | 66.5 2.62 | 35.6 1.40 | 39.1 1.54 | 6.4 0.25 | 58.9 2.32 | 76.33 3.01 | 5.9 13 |
| DAAP11K200S | 2 in. | | | | | | | | | | | | | | | | | |
| DAAP11K050S | 50 mm | | | | | | | | | | | | | | | | | |
| DAAP13K203S | 2 3/16 in. | 22213 | 63.5 2.50 | 138.9 5.47 | 85.1 3.35 | 165.1 6.50 | 200.0 7.87 | 244.6 9.63 | 70.6 2.78 | 32.8 1.29 | 16 5/8 | 74.9 2.95 | 39.6 1.56 | 43.7 1.72 | 3.8 0.15 | 65.0 2.56 | 82.83 3.26 | 9.1 20 |
| DAAP13K204S | 2 1/4 in. | | | | | | | | | | | | | | | | | |
| DAAP13K060S | 60 mm | | | | | | | | | | | | | | | | | |
| DAAP15K207S | 2 7/16 in. | 22215 | 69.9 2.75 | 149.9 5.90 | 98.0 3.86 | 174.8 6.88 | 219.2 8.63 | 260.4 10.25 | 68.6 2.70 | 35.1 1.38 | 16 5/8 | 78.2 3.08 | 43.9 1.73 | 48.7 1.92 | 9.3 0.37 | 73.4 2.89 | 92.33 3.64 | 11.3 25 |
| DAAP15K208S | 2 1/2 in. | | | | | | | | | | | | | | | | | |
| DAAP15K065S | 65 mm | | | | | | | | | | | | | | | | | |
| DAAP17K215S | 2 15/16 in. | 22217 | 82.6 3.25 | 173.2 6.82 | 110.0 4.33 | 200.2 7.88 | 244.3 9.62 | 295.4 11.63 | 76.2 3.00 | 35.1 1.38 | 20 3/4 | 88.1 3.47 | 49.8 1.96 | 50.2 1.98 | 16.0 0.63 | 82.0 3.23 | 104.33 4.12 | 14.5 32 |
| DAAP17K300S | 3 in. | | | | | | | | | | | | | | | | | |
| DAAP17K075S | 75 mm | | | | | | | | | | | | | | | | | |
| DAAP20K307S | 3 7/16 in. | 22220 | 95.3 3.75 | 202.7 7.98 | 130.0 5.12 | 238.3 9.38 | 285.8 11.25 | 342.9 13.50 | 85.9 3.38 | 47.8 1.88 | 24 7/8 | 101.3 3.99 | 58.4 2.30 | 63.6 2.51 | 15.3 0.60 | 97.0 3.82 | 121.83 4.80 | 25.9 57 |
| DAAP20K308S | 3 1/2 in. | | | | | | | | | | | | | | | | | |
| DAAP20K090S | 90 mm | | | | | | | | | | | | | | | | | |
| DAAP22K315S | 3 15/16 in. | 22222 | 108.0 4.25 | 223.5 8.80 | 145.0 5.71 | 255.5 10.06 | 317.5 12.50 | 362.0 14.25 | 100.6 3.96 | 38.1 1.50 | 24 1 | 113.3 4.46 | 63.0 2.48 | 65.8 2.59 | 14.6 0.57 | 104.9 4.13 | 130.7 5.15 | 30.4 67 |
| DAAP22K400S | 4 in. | | | | | | | | | | | | | | | | | |
| DAAP22K100S | 100 mm | | | | | | | | | | | | | | | | | |

⁽¹⁾Double-nut (TAA/DAA) part number shown. Single-nut (TA/DV) version available upon request.

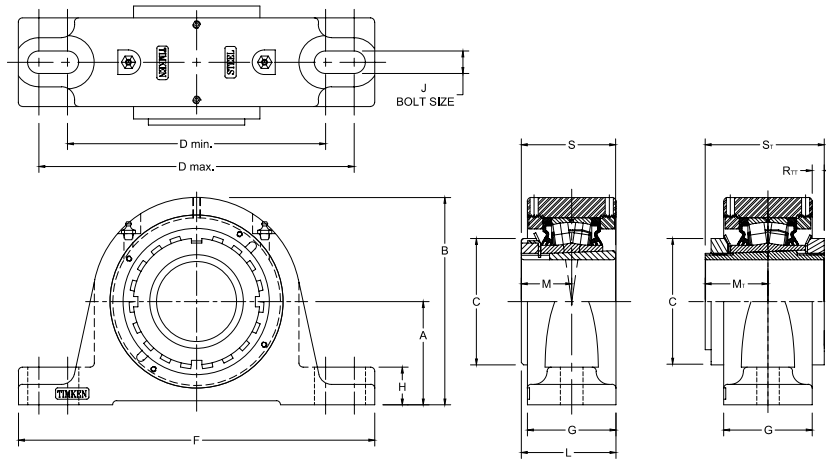
TAAPA SAF-STYLE TWO-BOLT PILLOW BLOCKS



| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | F | G | H | J | L | M | M _T | R _{TT} | S | S _T | Wt. |
|---------------------------------|-------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------|-----------------|-----------|----------------|------------|
| | 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. | mm in. | mm in. | mm in. | kg lbs. |
| TAAPA09K107S | 1 1/8 in. | 22209 | 57.2 | 108.0 | 65.0 | 158.8 | 177.8 | 209.6 | 53.3 | 29.0 | 12 | 57.4 | 30.7 | 34.2 | 4.6 | 50.3 | 65.33 | 4.5 |
| TAAPA09K108S | 1 1/2 in. | | 2.25 | 4.25 | 2.56 | 6.25 | 7.00 | 8.25 | 2.10 | 1.14 | 1/2 | 2.26 | 1.21 | 1.34 | 0.18 | 1.98 | 2.57 | 10 |
| TAAPA09K040S | 40 mm | | | | | | | | | | | | | | | | | |
| TAAPA10K111S | 1 1/16 in. | 22210 | 63.5 | 123.7 | 70.1 | 165.1 | 177.8 | 209.6 | 54.9 | 31.8 | 12 | 61.0 | 33.5 | 37.6 | 6.3 | 55.1 | 71.33 | 5.9 |
| TAAPA10K112S | 1 3/4 in. | | 2.50 | 4.87 | 2.76 | 6.50 | 7.00 | 8.25 | 2.16 | 1.25 | 1/2 | 2.40 | 1.32 | 1.48 | 0.25 | 2.17 | 2.81 | 13 |
| TAAPA10K045S | 45 mm | | | | | | | | | | | | | | | | | |
| TAAPA11K115S | 1 5/16 in. | 22211 | 69.9 | 135.4 | 74.9 | 165.1 | 221.0 | 251.0 | 60.5 | 31.8 | 16 | 65.8 | 35.6 | 39.1 | 7.0 | 58.9 | 76.33 | 7.7 |
| TAAPA11K200S | 2 in. | | 2.75 | 5.33 | 2.95 | 6.50 | 8.70 | 9.88 | 2.38 | 1.25 | 5/8 | 2.59 | 1.40 | 1.54 | 0.27 | 2.32 | 3.01 | 17 |
| TAAPA11K050S | 50 mm | | | | | | | | | | | | | | | | | |
| TAAPA13K203S | 2 3/16 in. | 22213 | 76.2 | 151.1 | 85.1 | 182.9 | 241.3 | 269.5 | 68.6 | 31.2 | 16 | 73.9 | 39.6 | 43.7 | 4.8 | 65.0 | 82.83 | 10.4 |
| TAAPA13K204S | 2 1/4 in. | | 3.00 | 5.95 | 3.35 | 7.20 | 9.50 | 10.61 | 2.70 | 1.23 | 5/8 | 2.91 | 1.56 | 1.72 | 0.19 | 2.56 | 3.26 | 23 |
| TAAPA13K060S | 60 mm | | | | | | | | | | | | | | | | | |
| TAAPA15K207S | 2 7/16 in. | 22215 | 82.6 | 163.3 | 98.0 | 200.2 | 244.6 | 276.4 | 68.6 | 31.8 | 16 | 78.2 | 43.9 | 48.7 | 9.3 | 72.9 | 92.33 | 12.2 |
| TAAPA15K208S | 2 1/2 in. | | 3.25 | 6.43 | 3.86 | 7.88 | 9.63 | 10.88 | 2.70 | 1.25 | 5/8 | 3.08 | 1.73 | 1.92 | 0.37 | 2.87 | 3.64 | 27 |
| TAAPA15K065S | 65 mm | | | | | | | | | | | | | | | | | |
| TAAPA16K211S | 2 11/16 in. | 22216 | 88.9 | 176.7 | 104.7 | 228.6 | 279.4 | 330.2 | 72.6 | 31.8 | 20 | 83.8 | 47.5 | 51.7 | 11.3 | 77.8 | 99.33 | 13.6 |
| TAAPA16K212S | 2 3/4 in. | | 3.50 | 6.96 | 4.12 | 9.00 | 11.00 | 13.00 | 2.86 | 1.25 | 3/4 | 3.30 | 1.87 | 2.04 | 0.45 | 3.06 | 3.91 | 30 |
| TAAPA16K070S | 70 mm | | | | | | | | | | | | | | | | | |
| TAAPA17K215S | 2 5/16 in. | 22217 | 95.3 | 185.9 | 110.0 | 241.3 | 279.4 | 320.8 | 76.2 | 33.8 | 20 | 88.1 | 49.8 | 50.2 | 16.0 | 82.0 | 104.33 | 15.0 |
| TAAPA17K300S | 3 in. | | 3.75 | 7.32 | 4.33 | 9.50 | 11.00 | 12.63 | 3.00 | 1.33 | 3/4 | 3.47 | 1.96 | 1.98 | 0.63 | 3.23 | 4.12 | 33 |
| TAAPA17K075S | 75 mm | | | | | | | | | | | | | | | | | |
| TAAPA18K303S | 3 3/16 in. | 22218 | 101.6 | 203.1 | 119.6 | 254.0 | 298.5 | 349.3 | 79.8 | 41.3 | 20 | 91.9 | 52.0 | 56.6 | 12.3 | 86.0 | 108.83 | 22.2 |
| TAAPA18K304S | 3 1/4 in. | | 4.00 | 8.00 | 4.71 | 10.00 | 11.75 | 13.75 | 3.14 | 1.63 | 3/4 | 3.62 | 2.05 | 2.23 | 0.49 | 3.39 | 4.28 | 49 |
| TAAPA18K080S | 80 mm | | | | | | | | | | | | | | | | | |
| TAAPA20K307S | 3 7/16 in. | 22220 | 114.3 | 219.2 | 130.0 | 276.4 | 333.5 | 374.7 | 86.9 | 41.4 | 24 | 102.4 | 58.4 | 63.6 | 14.8 | 97.0 | 121.83 | 29.5 |
| TAAPA20K308S | 3 1/2 in. | | 4.50 | 8.63 | 5.12 | 10.88 | 13.13 | 14.75 | 3.42 | 1.63 | 7/8 | 4.03 | 2.30 | 2.51 | 0.58 | 3.82 | 4.80 | 65 |
| TAAPA20K090S | 90 mm | | | | | | | | | | | | | | | | | |
| TAAPA22K315S | 3 5/16 in. | 22222 | 125.5 | 240.5 | 145.0 | 317.5 | 368.3 | 406.4 | 100.6 | 50.8 | 24 | 113.5 | 63.0 | 65.8 | 14.6 | 104.9 | 130.7 | 38.1 |
| TAAPA22K400S | 4 in. | | 4.94 | 9.47 | 5.71 | 12.50 | 14.50 | 16.00 | 3.96 | 2.00 | 7/8 | 4.47 | 2.48 | 2.59 | 0.57 | 4.13 | 5.15 | 84 |
| TAAPA22K100S | 100 mm | | | | | | | | | | | | | | | | | |
| TAAPA26K407S | 4 7/16 in. | 22226 | 152.4 | 284.0 | 165.1 | 362.0 | 400.1 | 444.5 | 128.0 | 51.8 | 24 | 135.9 | 71.9 | 76.6 | 9.1 | 120.9 | 149.65 | 61.7 |
| TAAPA26K408S | 4 1/2 in. | | 6.00 | 11.18 | 6.50 | 14.25 | 15.75 | 17.50 | 5.04 | 2.04 | 1 | 5.35 | 2.83 | 3.01 | 0.36 | 4.76 | 5.89 | 136 |
| TAAPA26K115S | 115 mm | | | | | | | | | | | | | | | | | |
| TAAPA28K415S | 4 5/16 in. | 22228 | 152.4 | 297.2 | 180.1 | 384.3 | 441.3 | 499.9 | 108.0 | 51.8 | 30 | 120.4 | 77.5 | 85.2 | 22.0 | 131.1 | 161.15 | 61.8 |
| TAAPA28K500S | 5 in. | | 6.00 | 11.7 | 7.09 | 15.13 | 17.38 | 19.68 | 4.25 | 2.04 | 1 1/4 | 4.74 | 3.05 | 3.35 | 0.86 | 5.16 | 6.34 | 136 |
| TAAPA28K125S | 125 mm | | | | | | | | | | | | | | | | | |

⁽¹⁾Double-nut (TAA/DAA) part number shown. Single-nut (TA/DV) version available upon request.

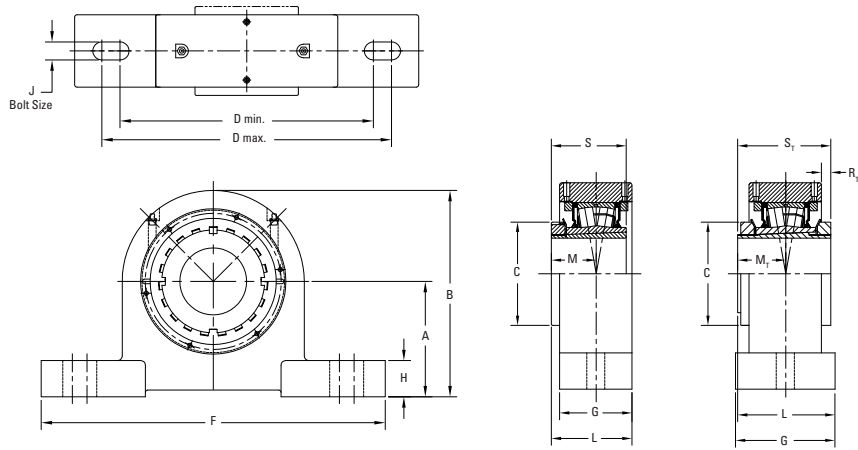
TAAPN SN-STYLE TWO-BOLT PILLOW BLOCKS



| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | F | G | H | J | L | M | M _T | R _T | S | S _T | Wt. |
|---------------------------------|---------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-----------|--------------|-------------|----------------|----------------|--------------|----------------|-------------|
| | | | 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. | mm in. | mm in. | mm in. |
| TAAPN09K107S | 1 7/16 in. | 22209 | 60.0 | 108.0 | 65.0 | 158.8 | 177.8 | 209.6 | 53.3 | 29.0 | 12 | 57.4 | 30.7 | 34.2 | 4.6 | 50.3 | 65.33 | 4.5 |
| TAAPN09K108S | 1 1/2 in. | | 2.362 | 4.25 | 2.56 | 6.25 | 7.00 | 8.25 | 2.10 | 1.14 | 1/2 | 2.26 | 1.21 | 1.34 | 0.18 | 1.98 | 2.57 | 10 |
| TAAPN09K040S | 40 mm | | | | | | | | | | | | | | | | | |
| TAAPN10K111S | 1 15/16 in. | 22210 | 60.0 | 120.1 | 70.1 | 165.1 | 177.8 | 209.6 | 54.9 | 28.2 | 12 | 61.0 | 33.5 | 37.6 | 6.3 | 55.1 | 71.33 | 5.9 |
| TAAPN10K112S | 1 3/4 in. | | 2.362 | 4.73 | 2.76 | 6.50 | 7.00 | 8.25 | 2.16 | 1.11 | 1/2 | 2.40 | 1.32 | 1.48 | 0.25 | 2.17 | 2.81 | 13 |
| TAAPN10K045S | 45 mm | | | | | | | | | | | | | | | | | |
| TAAPN11K115S | 1 5/16 in. | 22211 | 69.9 | 135.4 | 74.9 | 165.1 | 221.0 | 251.0 | 60.5 | 31.8 | 16 | 65.8 | 35.6 | 39.1 | 7.0 | 58.9 | 76.33 | 7.7 |
| TAAPN11K200S | 2 in. | | 2.75 | 5.33 | 2.95 | 6.50 | 8.70 | 9.88 | 2.38 | 1.25 | 5/8 | 2.59 | 1.40 | 1.54 | 0.27 | 2.32 | 3.01 | 17 |
| TAAPN11K050S | 50 mm | | | | | | | | | | | | | | | | | |
| TAAPN12K055S | 55 mm | 22212 | 70.0 | 140.5 | 79.8 | 177.8 | 219.2 | 254.0 | 60.5 | 31.8 | 16 | 67.6 | 37.6 | 41.1 | 7.0 | 62.0 | 78.33 | 9.1 |
| TAAPN13K203S | 2 3/16 in. | 22213 | 80.0 | 154.9 | 85.1 | 182.9 | 241.3 | 269.5 | 68.6 | 35.1 | 16 | 73.9 | 39.6 | 43.7 | 4.8 | 65.0 | 82.83 | 10.4 |
| TAAPN13K204S | 2 1/4 in. | | 3.15 | 6.10 | 3.35 | 7.20 | 9.50 | 10.61 | 2.70 | 1.38 | 5/8 | 2.91 | 1.56 | 1.72 | 0.19 | 2.56 | 3.26 | 23 |
| TAAPN13K060S | 60 mm | | | | | | | | | | | | | | | | | |
| TAAPN15K207S | 2 7/16 in. | 22215 | 80.0 | 160.8 | 98.0 | 200.2 | 244.6 | 276.4 | 68.6 | 29.2 | 16 | 78.2 | 43.9 | 48.7 | 9.3 | 72.9 | 92.33 | 12.2 |
| TAAPN15K208S | 2 1/2 in. | | 3.15 | 6.33 | 3.86 | 7.88 | 9.63 | 10.88 | 2.70 | 1.15 | 5/8 | 3.08 | 1.73 | 1.92 | 0.37 | 2.87 | 3.64 | 27 |
| TAAPN15K065S | 65 mm | | | | | | | | | | | | | | | | | |
| TAAPN16K211S | 2 11/16 in. | 22216 | 95.0 | 180.3 | 104.6 | 235.0 | 266.7 | 315.0 | 72.6 | 31.8 | 20 | 83.8 | 47.5 | 51.7 | 11.3 | 78.0 | 99.33 | 13.6 |
| TAAPN16K212S | 2 3/4 in. | | 3.74 | 7.10 | 4.12 | 9.25 | 10.50 | 12.40 | 2.86 | 1.25 | 3/4 | 3.30 | 1.87 | 2.04 | 0.45 | 3.07 | 3.91 | 30 |
| TAAPN16K070S | 70 mm | | | | | | | | | | | | | | | | | |
| TAAPN17K215S | 2 15/16 in. | 22217 | 95.3 | 185.9 | 110.0 | 241.3 | 279.4 | 320.8 | 76.2 | 33.8 | 20 | 88.1 | 49.8 | 50.2 | 16.0 | 82.0 | 104.33 | 15.0 |
| TAAPN17K300S | 3 in. | | 3.75 | 7.32 | 4.33 | 9.50 | 11.00 | 12.63 | 3.00 | 1.33 | 3/4 | 3.47 | 1.96 | 1.98 | 0.63 | 3.23 | 4.12 | 33 |
| TAAPN17K075S | 75 mm | | | | | | | | | | | | | | | | | |
| TAAPN18K080S | 80 mm | 22218 | 100.0 | 195.3 | 119.6 | 285.8 | 295.4 | 346.2 | 79.8 | 38.9 | 20 | 91.7 | 52.1 | 56.6 | 12.3 | 86.1 | 108.83 | 22.2 |
| TAAPN18K303S | 3 3/16 in. | | 3.937 | 7.69 | 4.71 | 11.25 | 11.63 | 13.63 | 3.14 | 1.53 | 3/4 | 3.61 | 2.05 | 2.23 | 0.49 | 3.39 | 4.28 | 49 |
| TAAPN18K304S | 3 1/4 in. | | | | | | | | | | | | | | | | | |
| TAAPN19K085S | 85 mm | 22219 | 112.0 | 212.3 | 124.7 | 285.8 | 295.4 | 346.2 | 82.8 | 38.9 | 20 | 96.0 | 54.6 | 59.2 | 13.2 | 89.9 | 113.83 | 23.1 |
| TAAPN20K307S | 3 7/16 in. | 22220 | 112.0 | 216.9 | 130.0 | 276.4 | 333.5 | 374.7 | 86.9 | 38.9 | 24 | 102.4 | 58.4 | 63.6 | 14.8 | 97.0 | 121.83 | 29.5 |
| TAAPN20K308S | 3 1/2 in. | | 4.409 | 8.54 | 5.12 | 10.88 | 13.13 | 14.75 | 3.42 | 1.53 | 7/8 | 4.03 | 2.30 | 2.51 | 0.58 | 3.82 | 4.80 | 65 |
| TAAPN20K090S | 90 mm | | | | | | | | | | | | | | | | | |
| TAAPN22K315S | 3 15/16 in. | 22222 | 125.0 | 240.5 | 145.0 | 317.5 | 368.3 | 406.4 | 100.6 | 50.8 | 24 | 113.5 | 63.0 | 65.8 | 14.6 | 104.9 | 130.7 | 38.1 |
| TAAPN22K400S | 4 in. | | 4.921 | 9.47 | 5.71 | 12.50 | 14.50 | 16.00 | 3.96 | 2.00 | 7/8 | 4.47 | 2.48 | 2.59 | 0.57 | 4.13 | 5.15 | 84 |
| TAAPN22K100S | 100 mm | | | | | | | | | | | | | | | | | |
| TAAPN24K403S | 4 3/16 in. | 22224 | 140.0 | 262.9 | 154.4 | 344.4 | 355.6 | 409.7 | 97.8 | 50.8 | 24 | 116.1 | 67.1 | 71.6 | 18.7 | 112.0 | 139.15 | 49.9 |
| TAAPN24K404S | 4 1/4 in. | | 5.512 | 10.35 | 6.08 | 13.56 | 14.00 | 16.13 | 3.85 | 2.00 | 7/8 | 4.57 | 2.64 | 2.82 | 0.73 | 4.41 | 5.48 | 110 |
| TAAPN24K110S | 110 mm | | | | | | | | | | | | | | | | | |
| TAAPN26K407S | 4 7/16 in. | 22226 | 150.0 | 281.7 | 165.1 | 367.3 | 400.1 | 444.5 | 128.0 | 49.3 | 24 | 135.9 | 71.9 | 76.6 | 9.1 | 120.9 | 149.65 | 61.7 |
| TAAPN26K408S | 4 1/2 in. | | 5.906 | 11.09 | 6.50 | 14.46 | 15.75 | 17.50 | 5.04 | 1.94 | 1 | 5.35 | 2.83 | 3.01 | 0.36 | 4.76 | 5.89 | 136 |
| TAAPN26K115S | 115 mm | | | | | | | | | | | | | | | | | |
| TAAPN28K415S | 4 15/16 in. | 22228 | 150.0 | 288.5 | 180.1 | 384.3 | 441.5 | 499.9 | 108.0 | 49.3 | 30 | 120.4 | 77.5 | 85.2 | 22.0 | 131.1 | 161.15 | 61.8 |
| TAAPN28K500S | 5 in. | | 5.906 | 11.36 | 7.09 | 15.13 | 17.38 | 19.68 | 4.25 | 1.94 | 1 1/4 | 4.74 | 3.05 | 3.35 | 0.86 | 5.16 | 6.34 | 136 |
| TAAPN28K125S | 125 mm | | | | | | | | | | | | | | | | | |

⁽¹⁾Double-nut (TAA/DAA) part number shown. Single-nut (TA/DV) version available upon request.

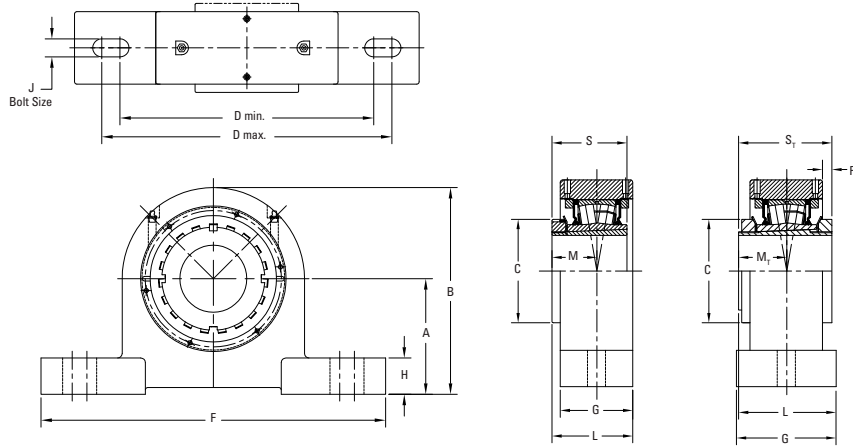
TAASD SPECIAL DUTY-STYLE TWO-BOLT PILLOW BLOCKS



| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | F | G | H | J | L | M | M _T | R _{TT} | S | S _T | Wt. |
|---------------------------------|-------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------|-----------------|-----------|----------------|------------|
| | 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. | mm in. | mm in. | mm in. | kg lbs. |
| TAASD09K107S | 1 7/8 in. | 22209 | 73.2 | 124.0 | 65.0 | 174.8 | 193.8 | 228.6 | 51.7 | 29.0 | M12 | 56.6 | 30.7 | 33.3 | 6.20 | 50.2 | 65.3 | 6 |
| TAASD09K108S | 1 1/2 in. | | 2.88 | 4.88 | 2.56 | 6.88 | 7.63 | 9.00 | 2.03 | 1.14 | 1/2 | 2.23 | 1.21 | 1.31 | 0.24 | 1.98 | 2.42 | 14 |
| TAASD09K040S | 40 mm | | | | | | | | | | | | | | | | | |
| TAASD10K111S | 1 13/16 in. | 22210 | 79.5 | 139.7 | 70.1 | 192.0 | 201.7 | 241.3 | 51.7 | 31.8 | M12 | 59.4 | 33.5 | 36.3 | 9.20 | 55.0 | 71.3 | 7 |
| TAASD10K112S | 1 3/4 in. | | 3.13 | 5.50 | 2.76 | 7.56 | 7.94 | 9.50 | 2.03 | 1.25 | 1/2 | 2.34 | 1.32 | 1.43 | 0.36 | 2.17 | 2.64 | 16 |
| TAASD10K045S | 45 mm | | | | | | | | | | | | | | | | | |
| TAASD11K115S | 1 15/16 in. | 22211 | 82.6 | 148.1 | 74.9 | 209.6 | 235.0 | 279.4 | 57.5 | 31.8 | M16 | 64.3 | 35.6 | 39.4 | 8.20 | 58.9 | 76.3 | 9 |
| TAASD11K200S | 2 in. | | 3.25 | 5.83 | 2.95 | 8.25 | 9.25 | 11.00 | 2.26 | 1.25 | 5/8 | 2.53 | 1.40 | 1.55 | 0.32 | 2.32 | 2.80 | 19 |
| TAASD11K050S | 50 mm | | | | | | | | | | | | | | | | | |
| TAASD13K203S | 2 3/8 in. | 22213 | 95.3 | 170.2 | 85.1 | 231.9 | 263.7 | 304.8 | 70.7 | 31.8 | M16 | 75.0 | 39.6 | 42.4 | 5.10 | 65.0 | 82.8 | 13 |
| TAASD13K204S | 2 1/4 in. | | 3.75 | 6.70 | 3.35 | 9.13 | 10.38 | 12.00 | 2.78 | 1.25 | 3/8 | 2.95 | 1.56 | 1.67 | 0.20 | 2.56 | 3.12 | 30 |
| TAASD13K060S | 60 mm | | | | | | | | | | | | | | | | | |
| TAASD15K207S | 2 7/8 in. | 22215 | 101.6 | 182.4 | 98.0 | 254.0 | 292.1 | 336.6 | 70.7 | 31.8 | M20 | 79.3 | 43.9 | 47.0 | 10.0 | 72.9 | 92.3 | 15 |
| TAASD15K208S | 2 1/2 in. | | 4.00 | 7.18 | 3.86 | 10.00 | 11.50 | 13.25 | 2.78 | 1.25 | 3/4 | 3.12 | 1.73 | 1.85 | 0.39 | 2.87 | 3.46 | 34 |
| TAASD15K065S | 65 mm | | | | | | | | | | | | | | | | | |
| TAASD17K215S | 2 15/16 in. | 22217 | 120.7 | 211.3 | 110.0 | 279.4 | 317.5 | 362.0 | 75.7 | 39.6 | M20 | 87.6 | 49.8 | 53.6 | 12.9 | 82.0 | 104.3 | 22 |
| TAASD17K300S | 3 in. | | 4.75 | 8.32 | 4.33 | 11.00 | 12.50 | 14.25 | 2.98 | 1.56 | 3/4 | 3.45 | 1.96 | 2.11 | 0.51 | 3.23 | 3.92 | 48 |
| TAASD17K075S | 75 mm | | | | | | | | | | | | | | | | | |
| TAASD18K080S | 80 mm | 22218 | 139.7 | 237.5 | 119.6 | 336.6 | 362.0 | 425.5 | 79.7 | 39.6 | M24 | 91.9 | 52.1 | 56.1 | 12.9 | 86.1 | 108.8 | 28 |
| TAASD18K303S | 3 3/8 in. | | 5.50 | 9.35 | 4.71 | 13.25 | 14.25 | 16.75 | 3.14 | 1.56 | 3/4 | 3.62 | 2.05 | 2.21 | 0.51 | 3.39 | 4.10 | 62 |
| TAASD18K304S | 3 1/4 in. | | | | | | | | | | | | | | | | | |
| TAASD20K307S | 3 7/8 in. | 22220 | 139.7 | 247.7 | 130.0 | 336.6 | 362.0 | 425.5 | 85.7 | 69.9 | M24 | 101.3 | 58.4 | 62.6 | 16.4 | 97.0 | 121.8 | 33 |
| TAASD20K308S | 3 1/2 in. | | 5.50 | 9.75 | 5.12 | 13.25 | 14.25 | 16.75 | 3.38 | 2.75 | 3/4 | 3.99 | 2.30 | 2.46 | 0.65 | 3.82 | 4.60 | 72 |
| TAASD20K090S | 90 mm | | | | | | | | | | | | | | | | | |

⁽¹⁾Double-nut (TAA) part number shown. Single-nut (TA) version available upon request.

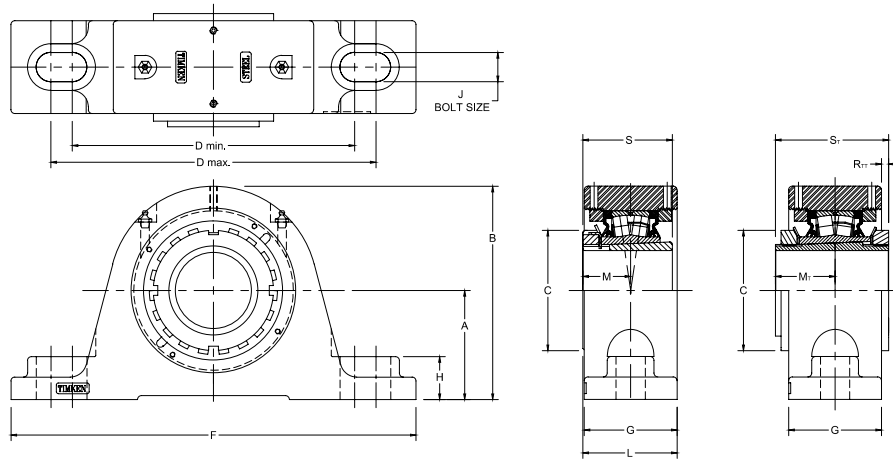
TAADI DI-STYLE TWO-BOLT PILLOW BLOCK



| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | F | G | H | J | L | M | M _T | R _{TT} | S | S _T | Wt. |
|---------------------------------|--------------|-------------|----------------------|----------------------|----------------------|-----------------------|-----------------------|-----------------------|----------------------|---------------------|-------------------|----------------------|---------------------|---------------------|---------------------|---------------------|----------------------|-----------------|
| | | | 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. | mm in. | mm in. | mm in. |
| TAADI09K107S | 1 7/16 in. | 22209 | 60.5 2.38 | 119.8 4.72 | 65.0 2.56 | 158.8 6.25 | 168.4 6.63 | 203.2 8.00 | 51.7 2.03 | 29.0 1.14 | M12 ½ | 56.6 2.23 | 30.7 1.21 | 33.3 1.31 | 6.20 0.24 | 50.3 1.98 | 65.3 2.42 | 5 12 |
| TAADI09K108S | 1 ½ in. | | 66.8 2.63 | 127.0 5.00 | 65.0 2.56 | 174.8 6.88 | 193.8 7.63 | 228.6 9.00 | 51.7 2.03 | 31.8 1.25 | M12 ½ | 56.6 2.23 | 30.7 1.21 | | | 50.3 1.98 | | |
| TAADI09K040S | 40 mm | | | | | | | | | | | | | | | | | |
| TAADI10K111S | 1 1/8 in. | 22210 | 66.8 2.63 | 127.0 5.00 | 70.1 2.76 | 174.8 6.88 | 193.8 7.63 | 228.6 9.00 | 51.7 2.03 | 31.8 1.25 | M12 ½ | 62.1 2.45 | 33.5 1.32 | 36.3 1.43 | 9.2 0.36 | 55.1 2.17 | 71.3 2.64 | 6 13 |
| TAADI10K112S | 1 ¾ in. | | 73.2 2.88 | 138.7 5.46 | 70.1 2.76 | 187.5 7.38 | 201.7 7.94 | 254.0 10.00 | 51.7 2.03 | 31.8 1.25 | M12 ½ | 65.3 2.57 | 33.5 1.32 | | | 55.1 2.17 | | |
| TAADI10K045S | 45 mm | | | | | | | | | | | | | | | | | |
| TAADI11K115S | 1 1/8 in. | 22211 | 73.2 2.88 | 138.7 5.46 | 74.9 2.95 | 187.5 7.38 | 201.7 7.94 | 254.0 10.00 | 57.5 2.26 | 31.8 1.25 | M16 5/8 | 64.3 2.53 | 35.6 1.40 | 39.4 1.55 | 8.2 0.32 | 58.9 2.32 | 76.3 2.80 | 7 16 |
| TAADI11K200S | 2 in. | | | | | | | | | | | | | | | | | |
| TAADI11K050S | 50 mm | | | | | | | | | | | | | | | | | |
| TAADI13K203S | 2 3/8 in. | 22213 | 76.2 3.00 | 151.1 5.95 | 85.1 3.35 | 203.2 8.00 | 235.0 9.25 | 279.4 11.00 | 70.71 2.78 | 31.8 1.25 | M16 5/8 | 77.7 3.06 | 39.6 1.56 | 42.4 1.67 | 5.0 0.20 | 65.0 2.56 | 82.8 3.12 | 11 25 |
| TAADI13K204S | 2 ¼ in. | | 82.6 3.25 | 163.3 6.43 | 85.1 3.35 | 235.0 9.25 | 260.4 10.25 | 304.8 12.00 | 70.71 2.78 | 31.8 1.25 | M16 5/8 | 82.0 3.23 | 43.9 1.73 | | | 72.9 2.87 | | |
| TAADI13K060S | 60 mm | | | | | | | | | | | | | | | | | |
| TAADI15K207S | 2 7/8 in. | 22215 | 82.6 3.25 | 163.3 6.43 | 98.0 3.86 | 235.0 9.25 | 260.4 10.25 | 304.8 12.00 | 70.71 2.78 | 31.8 1.25 | M16 5/8 | 82.0 3.23 | 43.9 1.73 | 47.0 1.85 | 9.9 0.39 | 72.9 2.87 | 92.3 3.46 | 13 29 |
| TAADI15K208S | 2 ½ in. | | | | | | | | | | | | | | | | | |
| TAADI15K065S | 65 mm | | | | | | | | | | | | | | | | | |
| TAADI17K215S | 2 15/16 in. | 22217 | 95.3 3.75 | 185.9 7.32 | 110.0 4.33 | 251.0 9.88 | 292.1 11.50 | 341.8 13.46 | 75.7 2.98 | 31.8 1.25 | M20 ¾ | 87.9 1.96 | 49.8 1.96 | 53.6 2.11 | 12.9 0.51 | 82.0 3.23 | 104.3 3.92 | 18 39 |
| TAADI17K300S | 3 in. | | | | | | | | | | | | | | | | | |
| TAADI17K075S | 75 mm | | | | | | | | | | | | | | | | | |
| TAADI18K080S | 80 mm | 22218 | 114.3 4.50 | 219.2 8.63 | 119.6 4.71 | 325.4 12.81 | 350.8 13.81 | 406.4 16.00 | 79.7 3.14 | 39.6 1.56 | M24 7/8 | 93.3 3.68 | 52.1 2.05 | 56.1 2.21 | 12.8 0.51 | 86.1 3.39 | 108.8 4.10 | 26 58 |
| TAADI18K303S | 3 3/8 in. | | | | | | | | | | | | | | | | | |
| TAADI18K304S | 3 ¼ in. | | | | | | | | | | | | | | | | | |
| TAADI20K307S | 3 7/8 in. | 22220 | 114.3 4.50 | 219.2 8.63 | 130.0 5.12 | 325.4 12.81 | 350.8 13.81 | 406.4 16.00 | 85.7 3.38 | 39.6 1.56 | M24 7/8 | 102.9 4.05 | 58.4 2.30 | 58.4 2.30 | 16.3 0.64 | 97.0 3.82 | 121.8 4.60 | 27 60 |
| TAADI20K308S | 3 ½ in. | | | | | | | | | | | | | | | | | |
| TAADI20K090S | 90 mm | | | | | | | | | | | | | | | | | |

⁽¹⁾Double-nut (TAA) part number shown. Single-nut (TA) version available upon request.

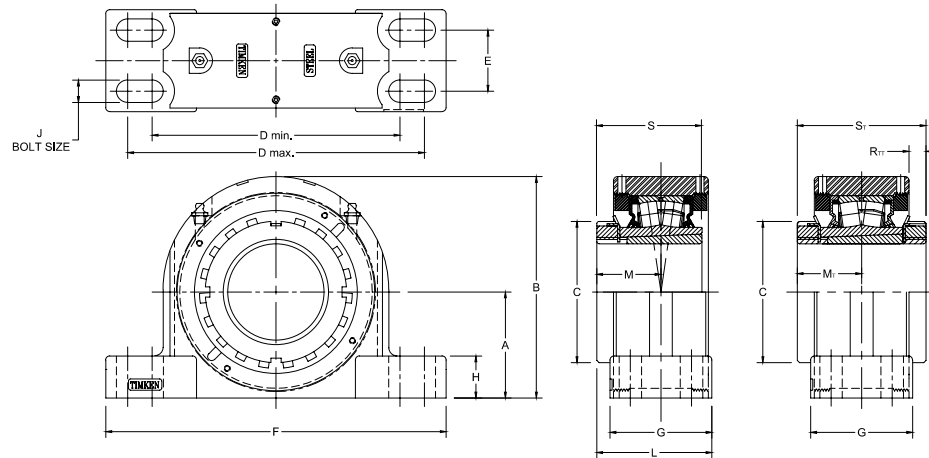
TAAPKT 9000 SERIES TWO-BOLT PILLOW BLOCKS



| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | F | G | H | J | L | M | M _T | R _{TT} | S | S _T | Wt. |
|---------------------------------|--------------|-------------|-------------|--------------|-------------|--------------|--------------|--------------|-------------|-------------|-----------|-------------|-------------|----------------|-----------------|-------------|----------------|-------------|
| | 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. | mm in. | mm in. | mm in. | kg lbs. |
| TAAPKT13K203S | 2 3/16 in. | 22213 | 76.2 | 153.7 | 85.1 | 194.6 | 223.0 | 285.8 | 73.7 | 35.1 | 20 | 76.5 | 36.6 | 43.7 | 2.3 | 65.0 | 82.83 | 10.0 |
| TAAPKT13K204S | 2 1/4 in. | | 3.00 | 6.05 | 3.35 | 7.66 | 8.78 | 11.25 | 2.90 | 1.38 | 3/4 | 3.01 | 1.56 | 1.72 | 0.09 | 2.56 | 3.26 | 22 |
| TAAPKT13K060S | 60 mm | | | | | | | | | | | | | | | | | |
| TAAPKT15K207S | 2 7/16 in. | 22215 | 88.9 | 173.7 | 98.0 | 230.1 | 265.2 | 330.2 | 75.7 | 35.1 | 24 | 81.8 | 43.9 | 48.7 | 5.8 | 72.9 | 92.33 | 12.7 |
| TAAPKT15K208S | 2 1/2 in. | | 3.50 | 6.84 | 3.86 | 9.06 | 10.44 | 13.00 | 2.98 | 1.38 | 7/8 | 3.22 | 1.73 | 1.92 | 0.23 | 2.87 | 3.64 | 28 |
| TAAPKT15K065S | 65 mm | | | | | | | | | | | | | | | | | |

⁽¹⁾Double-nut (TAA/DAA) part number shown. Single-nut (TA/DV) version available upon request.

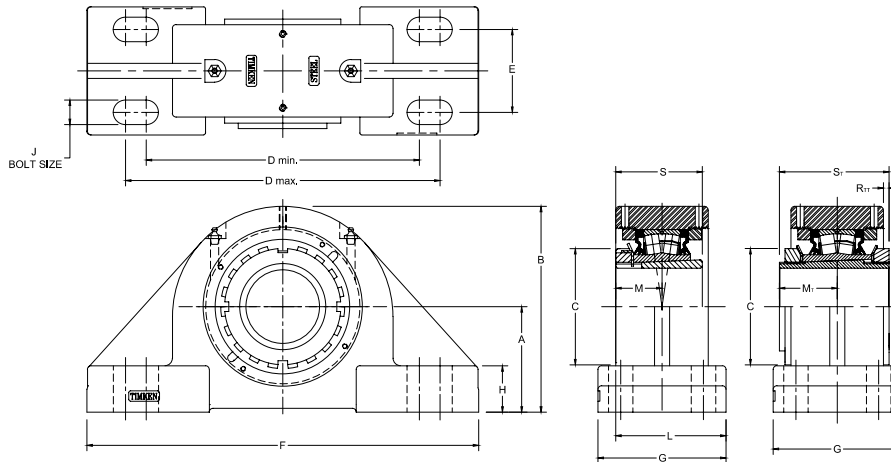
DAAPF FOUR-BOLT PILLOW BLOCKS



| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | E | F | G | H | J | L | M | M _T | R _T | S | S _T | Wt. |
|---------------------------------|---------------|-------------|--------------|--------------|--------------|--------------|--------------|-------------|--------------|--------------|-------------|-----------|--------------|-------------|----------------|----------------|--------------|----------------|-------------|
| | 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. | mm in. | mm in. | mm in. | mm in. | kg lbs. |
| DAAPF17K215S | 2 1/8 in. | 22217 | 82.6 | 172.5 | 110.0 | 193.0 | 231.1 | 47.8 | 265.2 | 79.5 | 32.8 | 16 | 86.6 | 49.8 | 50.2 | 13.2 | 82.0 | 104.33 | 23.1 |
| DAAPF17K300S | 3 in. | | 3.25 | 6.79 | 4.33 | 7.60 | 9.10 | 1.88 | 10.44 | 3.13 | 1.29 | 5/8 | 3.41 | 1.96 | 1.98 | 0.52 | 3.23 | 4.12 | 51 |
| DAAPF17K075S | 75 mm | | | | | | | | | | | | | | | | | | |
| DAAPF20K307S | 3 7/8 in. | 22220 | 95.3 | 200.2 | 130.0 | 225.6 | 276.4 | 50.8 | 312.4 | 95.3 | 39.6 | 20 | 101.3 | 58.4 | 63.6 | 13.8 | 97.0 | 121.83 | 31.8 |
| DAAPF20K308S | 3 1/2 in. | | 3.75 | 7.88 | 5.12 | 8.88 | 10.88 | 2.00 | 12.30 | 3.75 | 1.56 | 3/4 | 3.99 | 2.30 | 2.51 | 0.54 | 3.82 | 4.80 | 70 |
| DAAPF20K090S | 90 mm | | | | | | | | | | | | | | | | | | |
| DAAPF22K315S | 3 1/8 in. | 22222 | 108.0 | 223.0 | 145.0 | 276.4 | 339.9 | 57.2 | 378.0 | 109.5 | 35.6 | 20 | 110.7 | 63.0 | 65.8 | 17.3 | 104.9 | 130.7 | 38.6 |
| DAAPF22K400S | 4 in. | | 4.25 | 8.78 | 5.71 | 10.88 | 13.38 | 2.25 | 14.88 | 4.31 | 1.40 | 3/4 | 4.36 | 2.48 | 2.59 | 0.68 | 4.13 | 5.15 | 85 |
| DAAPF22K100S | 100 mm | | | | | | | | | | | | | | | | | | |
| DAAPF26K407S | 4 7/8 in. | 22226 | 120.7 | 250.7 | 165.1 | 302.3 | 368.3 | 63.5 | 409.7 | 120.7 | 40.1 | 20 | 123.7 | 71.9 | 76.6 | 16.7 | 120.1 | 149.65 | 62.1 |
| DAAPF26K408S | 4 1/2 in. | | 4.75 | 9.87 | 6.50 | 11.90 | 14.50 | 2.50 | 16.13 | 4.75 | 1.58 | 3/4 | 4.87 | 2.83 | 3.01 | 0.66 | 4.73 | 5.89 | 137 |
| DAAPF26K115S | 115 mm | | | | | | | | | | | | | | | | | | |

⁽¹⁾Double-nut (TAA/DAA) part number shown. Single-nut (TA/DV) version available upon request.

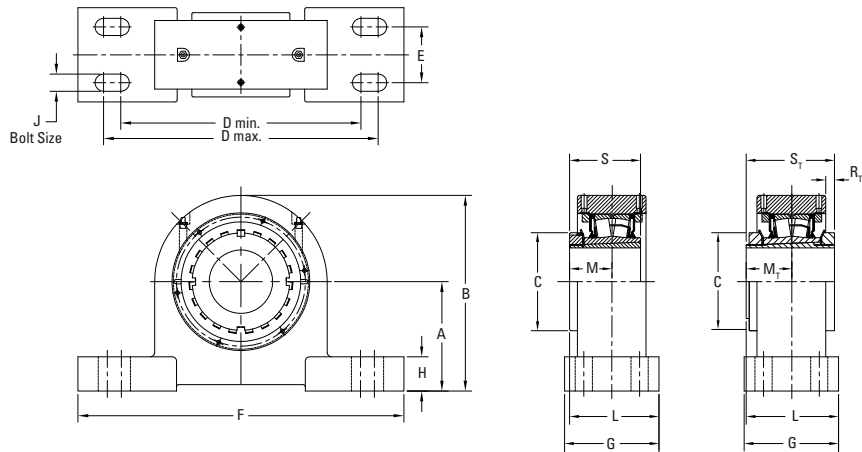
TAAPK 9000 SERIES FOUR-BOLT PILLOW BLOCKS



| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | E | F | G | H | J | L | M | M _T | R _{T1} | S | S _T | Wt. |
|---------------------------------|---------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-----------|--------------|-------------|----------------|-----------------|--------------|----------------|-------------|
| | 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. | mm in. | mm in. | mm in. | mm in. | kg lbs. |
| TAAPK15K207S | 2 7/16 in. | 22215 | 88.9 | 173.5 | 98.0 | 230.1 | 265.2 | 69.9 | 330.2 | 108.0 | 39.1 | 20 | 98.0 | 43.9 | 48.7 | 4.7 | 72.9 | 92.33 | 13.2 |
| TAAPK15K208S | 2 1/2 in. | | 3.50 | 6.83 | 3.86 | 9.06 | 10.44 | 2.75 | 13.00 | 4.25 | 1.54 | 3/4 | 3.86 | 1.73 | 1.92 | 0.18 | 2.87 | 3.64 | 29 |
| TAAPK15K065S | 65 mm | | | | | | | | | | | | | | | | | | |
| TAAPK17K215S | 2 15/16 in. | 22217 | 101.6 | 201.2 | 110.0 | 274.6 | 309.6 | 76.2 | 381.0 | 120.7 | 38.1 | 20 | 110.2 | 49.8 | 50.2 | 9.7 | 82.0 | 104.33 | 16.8 |
| TAAPK17K300S | 3 in. | | 4.00 | 7.92 | 4.33 | 10.81 | 12.19 | 3.00 | 15.00 | 4.75 | 1.50 | 3/4 | 4.34 | 1.96 | 1.98 | 0.38 | 3.23 | 4.12 | 37 |
| TAAPK17K075S | 75 mm | | | | | | | | | | | | | | | | | | |
| TAAPK20K307S | 3 7/16 in. | 22220 | 127.0 | 239.8 | 130.0 | 317.5 | 355.6 | 88.9 | 425.5 | 139.7 | 41.4 | 22 | 128.3 | 58.4 | 63.6 | 8.4 | 97.0 | 121.83 | 31.8 |
| TAAPK20K308S | 3 1/2 in. | | 5.00 | 9.44 | 5.12 | 12.50 | 14.00 | 3.50 | 16.75 | 5.50 | 1.63 | 7/8 | 5.05 | 2.30 | 2.51 | 0.33 | 3.82 | 4.80 | 70 |
| TAAPK20K090S | 90 mm | | | | | | | | | | | | | | | | | | |
| TAAPK22K315S | 3 15/16 in. | 22222 | 146.1 | 273.8 | 145.0 | 354.1 | 395.2 | 101.6 | 469.9 | 158.8 | 45.7 | 24 | 138.2 | 63.0 | 65.8 | 14.1 | 104.9 | 130.7 | 39.5 |
| TAAPK22K400S | 4 in. | | 5.75 | 10.78 | 5.71 | 13.94 | 15.56 | 4.00 | 18.50 | 6.25 | 1.80 | 1 | 5.44 | 2.48 | 2.59 | 0.56 | 4.13 | 5.15 | 87 |
| TAAPK22K100S | 100 mm | | | | | | | | | | | | | | | | | | |
| TAAPK26K407S | 4 7/16 in. | 22226 | 155.6 | 283.2 | 165.1 | 387.4 | 425.5 | 108.0 | 514.4 | 171.5 | 50.8 | 24 | 157.5 | 71.9 | 76.6 | 15.9 | 120.9 | 149.65 | 61.7 |
| TAAPK26K408S | 4 1/2 in. | | 6.125 | 11.15 | 6.50 | 15.25 | 16.75 | 4.25 | 20.25 | 6.75 | 2.00 | 1 1/8 | 6.20 | 2.83 | 3.01 | 0.63 | 4.76 | 5.89 | 136 |
| TAAPK26K115S | 115 mm | | | | | | | | | | | | | | | | | | |

⁽¹⁾Double-nut (TAA/DAA) part number shown. Single-nut (TA/DV) version available upon request.

TAA4SD SPECIAL DUTY-STYLE FOUR-BOLT PILLOW BLOCK



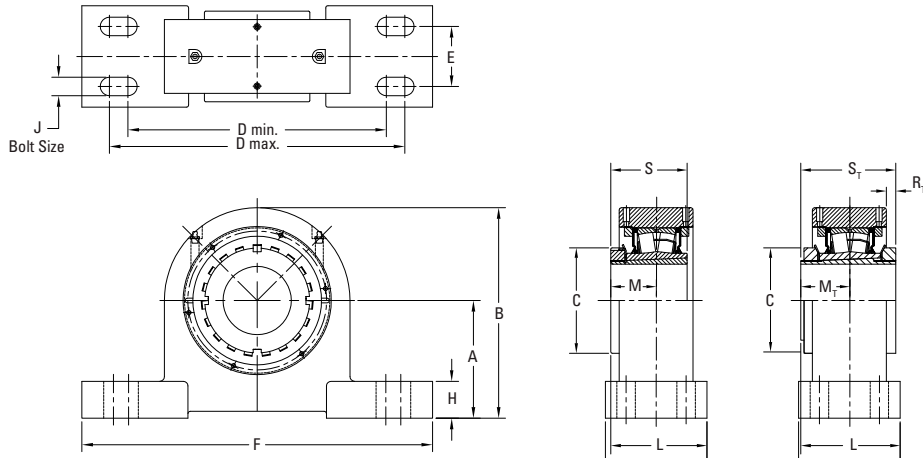
| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | E | F | G | H | J | L | M | M _T | R _{TT} | S | S _T | Wt. |
|---------------------------------|-------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------|-----------------|--------|----------------|--------|
| | | | 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. | mm in. | mm in. | mm in. | mm in. |
| TAA4SD15K207S | 2 7/16 in. | 22215 | 101.6 | 182.1 | 98.04 | 251.0 | 295.4 | 63.5 | 336.6 | 103.4 | 31.8 | M16 | 98.7 | 43.9 | 47.0 | 8.60 | 72.9 | 87.9 | 18 |
| TAA4SD15K208S | 2 1/2 in. | | 4.00 | 7.71 | 3.86 | 9.88 | 11.63 | 2.5 | 13.25 | 4.07 | 1.25 | M16 | 3.89 | 1.73 | 1.85 | 0.34 | 2.87 | 3.46 | 39 |
| TAA4SD15K065S | 65 mm | | | | | | | | | | | | 5/8 | | | | | | |
| TAA4SD17K215S | 2 15/16 in. | 22217 | 120.7 | 211.3 | 110.0 | 276.4 | 320.8 | 69.9 | 362.0 | 109.8 | 31.8 | M16 | 108.5 | 49.8 | 53.6 | 11.9 | 82.0 | 99.6 | 24 |
| TAA4SD17K300S | 3 in. | | 4.75 | 8.32 | 4.33 | 10.88 | 12.63 | 2.75 | 14.25 | 4.32 | 1.25 | M16 | 4.27 | 1.96 | 2.11 | 0.47 | 3.23 | 3.92 | 52 |
| TAA4SD17K075S | 75 mm | | | | | | | | | | | | 5/8 | | | | | | |
| TAA4SD20K307S | 3 7/16 in. | 22220 | 139.7 | 254.0 | 130.0 | 330.2 | 368.3 | 82.56 | 425.5 | 126.5 | 39.6 | M20 | 119.4 | 56.1 | 56.1 | 15.5 | 97.0 | 116.8 | 39 |
| TAA4SD20K308S | 3 1/2 in. | | 5.50 | 10 | 5.12 | 13.00 | 14.50 | 3.25 | 16.75 | 4.98 | 1.56 | M20 | 4.70 | 2.21 | 2.21 | 0.61 | 3.82 | 4.60 | 87 |
| TAA4SD20K090S | 90 mm | | | | | | | | | | | | 3/4 | | | | | | |
| TAA4SD22K315S | 3 15/16 in. | 22222 | 161.9 | 285.8 | 145.0 | 381.0 | 406.4 | 82.56 | 482.6 | 133.6 | 44.5 | M24 | 129.3 | 63.0 | 62.5 | 16.6 | 105.0 | 126.0 | 52 |
| TAA4SD22K400S | 4 in. | | 6.38 | 11.25 | 5.71 | 15.00 | 16.00 | 3.25 | 19.00 | 5.26 | 1.75 | M24 | 5.09 | 2.48 | 2.46 | 0.66 | 4.13 | 4.96 | 115 |
| TAA4SD22K100S | 100 mm | | | | | | | | | | | | 7/8 | | | | | | |
| TAA4SD26K407S | 4 7/16 in. | 22226 | 184.2 | 317.5 | 165.0 | 393.7 | 444.5 | 88.9 | 508.0 | 140.0 | 50.8 | M24 | 143.8 | 71.9 | 73.8 | 20.1 | 121.0 | 143.8 | 67 |
| TAA4SD26K408S | 4 1/2 in. | | 7.25 | 12.50 | 6.50 | 15.50 | 17.50 | 3.5 | 20.00 | 5.51 | 2.00 | M24 | 5.66 | 2.83 | 2.91 | 0.79 | 4.76 | 5.66 | 148 |
| TAA4SD26K115S | 115 mm | | | | | | | | | | | | 7/8 | | | | | | |
| TAA4SD28K415S | 4 15/16 in. | 22228 | 190.5 | 342.9 | 180.0 | 450.9 | 501.7 | 95.3 | 584.2 | 152.7 | 50.8 | M24 | 155.7 | 77.5 | 79.3 | 10.5 | 131.0 | 154.9 | 89 |
| TAA4SD28K500S | 5 in. | | 7.50 | 13.50 | 7.09 | 17.75 | 19.75 | 3.75 | 23.00 | 6.01 | 2.00 | M24 | 6.13 | 3.05 | 3.12 | 0.41 | 5.16 | 6.10 | 196 |
| TAA4SD28K125S | 125 mm | | | | | | | | | | | | 1 | | | | | | |
| TAA4SD32K140S | 140 mm | 23132 | 228.6 | 400.1 | 210.0 | 543.1 | 600.2 | 127.0 | 679.5 | 190.8 | 63.5 | M24 | 185.8 | - | 90.5 | 19.1 | - | 185.0 | 150 |
| TAA4SD32K506S | 5 3/16 in. | | 9.00 | 15.75 | 8.27 | 21.38 | 23.63 | 5.00 | 26.75 | 7.51 | 2.50 | M24 | 7.32 | - | 3.56 | 0.75 | - | 7.28 | 331 |
| TAA4SD32K507S | 5 7/16 in. | | | | | | | | | | | | 1 1/8 | | | | | | |
| TAA4SD32K508S | 5 1/2 in. | 23134 | 228.6 | 400.1 | 220.0 | 543.1 | 600.2 | 127.0 | 679.5 | 190.8 | 63.5 | M24 | 190.1 | - | 94.7 | 15.0 | - | 187.5 | 151 |
| TAA4SD34K150S | 150 mm | | 9.00 | 15.75 | 8.66 | 21.38 | 23.63 | 5.00 | 26.75 | 7.51 | 2.50 | M24 | 7.49 | - | 3.73 | 0.59 | - | 7.38 | 332 |
| TAA4SD34K513S | 5 13/16 in. | | | | | | | | | | | | 1 1/8 | | | | | | |
| TAA4SD34K514S | 5 7/8 in. | 23134 | 228.6 | 400.1 | 220.0 | 543.1 | 600.2 | 127.0 | 679.5 | 190.8 | 63.5 | M24 | 190.1 | - | 94.7 | 15.0 | - | 187.5 | 151 |
| TAA4SD34K515S | 5 15/16 in. | | 9.00 | 15.75 | 8.66 | 21.38 | 23.63 | 5.00 | 26.75 | 7.51 | 2.50 | M24 | 7.49 | - | 3.73 | 0.59 | - | 7.38 | 332 |
| TAA4SD34K600S | 6 in. | | | | | | | | | | | | 1 1/8 | | | | | | |

⁽¹⁾Double-nut (TAA) part number shown. Single-nut (TA) version available upon request.

⁽²⁾Insert size 23132K and above come standard with double nut tapered adapter.

Continued on next page.

TAA4SD SPECIAL DUTY-STYLE FOUR-BOLT PILLOW BLOCK – continued

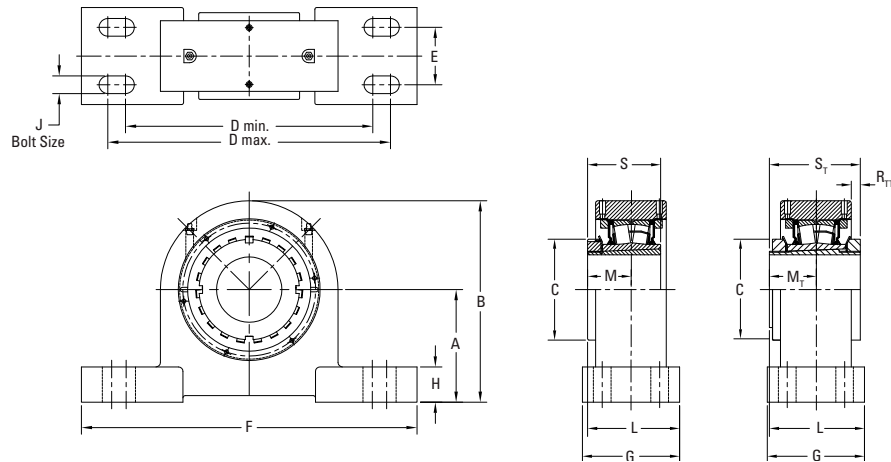


Continued from previous page.

| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | E | F | G | H | J | L | M | M _T | R _T | S | S _T | Wt. |
|---------------------------------|---------------|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------------------|------------------|----------------------|-----------|----------------------|---------------------|-----------|----------------------|-------------------|
| | 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. | mm in. | mm in. | mm in. | mm in. | kg lbs. |
| TAA4SD36K160S | 160 mm | 23136 | 285.8 11.25 | 501.7 19.75 | 230.0 9.06 | 698.5 27.50 | 774.7 30.50 | 139.70 5.50 | 873.3 34.38 | 223.5 8.80 | 69.9 2.75 | M36 1½ | 210.8 8.30 | - | 99.0 3.90 | 15.8 0.62 | - | 196.7 7.74 | 270 596 |
| TAA4SD36K605S | 6 ¾ in. | | | | | | | | | | | | | | | | | | |
| TAA4SD36K606S | 6 ¾ in. | | | | | | | | | | | | | | | | | | |
| TAA4SD36K607S | 6 ¾ in. | | | | | | | | | | | | | | | | | | |
| TAA4SD36K608S | 6 ½ in. | | | | | | | | | | | | | | | | | | |
| TAA4SD38K170S | 170 mm | 23138 | 285.8 11.25 | 501.7 19.75 | 240 9.45 | 698.5 27.50 | 774.7 30.50 | 139.70 5.50 | 873.3 34.38 | 223.5 8.80 | 69.9 2.75 | M36 1½ | 216.6 8.53 | - | 104.8 4.13 | 17.0 0.67 | - | 207.6 8.17 | 273 603 |
| TAA4SD38K613S | 6 ¾ in. | | | | | | | | | | | | | | | | | | |
| TAA4SD38K614S | 6 7/8 in. | | | | | | | | | | | | | | | | | | |
| TAA4SD38K615S | 6 15/16 in. | | | | | | | | | | | | | | | | | | |
| TAA4SD38K700S | 7 in. | 23144 | 317.5 12.50 | 558.8 22.00 | 280.0 11.02 | 774.7 30.50 | 863.6 34.00 | 152.4 6.00 | 984.3 38.75 | 260.6 10.26 | 85.1 3.35 | M42 1¾ | 249.2 9.81 | - | 119.0 4.68 | 21.8 0.86 | - | 234.7 9.24 | 380 838 |
| TAA4SD44K715S | 200 mm | | | | | | | | | | | | | | | | | | |
| TAA4SD44K715S | 7 13/16 in. | | | | | | | | | | | | | | | | | | |
| TAA4SD44K715S | 7 7/8 in. | | | | | | | | | | | | | | | | | | |
| TAA4SD44K715S | 7 15/16 in. | | | | | | | | | | | | | | | | | | |
| TAA4SD44K800S | 8 in. | | | | | | | | | | | | | | | | | | |

⁽¹⁾Insert size 23132K and above come standard with double nut tapered adapter

TAA4DI DI-STYLE FOUR-BOLT PILLOW BLOCK

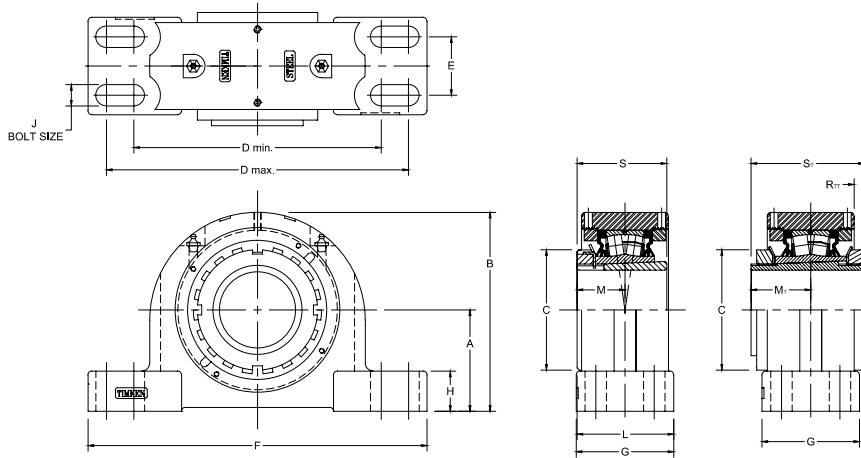


| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | E | F | G | H | J | L | M | M _T | R _{TT} | S | S _T | Wt. |
|---------------------------------|-------------|----------------------|-------|-------|-------|--------|--------|------|-------|-------|------|-----|-------|------|----------------|-----------------|-------|----------------|-----|
| | | | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm |
| TAA4DI15K207S | 2 7/16 in. | 22215 | 82.6 | 162.1 | 98.0 | 235.0 | 260.4 | 44.5 | 304.8 | 76.2 | 31.8 | M12 | 78.9 | 43.9 | 47.0 | 8.60 | 72.9 | 92.3 | 14 |
| TAA4DI15K208S | 2 1/2 in. | | 3.25 | 6.38 | 3.86 | 9.20 | 10.25 | 1.75 | 12.00 | 3.00 | 1.25 | 1/2 | 3.11 | 1.73 | 1.85 | 0.34 | 2.87 | 3.46 | 30 |
| TAA4DI15K065S | 65 mm | | | | | | | | | | | | | | | | | | |
| TAA4DI17K215S | 2 9/16 in. | 22217 | 95.3 | 185.7 | 110.0 | 250.8 | 292.1 | 47.6 | 341.4 | 88.9 | 31.8 | M16 | 94.2 | 49.8 | 53.6 | 11.9 | 82.0 | 104.3 | 19 |
| TAA4DI17K300S | 3 in. | | 3.75 | 7.32 | 4.33 | 9.88 | 11.50 | 1.88 | 13.44 | 3.50 | 1.25 | 5/8 | 3.71 | 1.96 | 2.11 | 0.47 | 3.23 | 3.92 | 42 |
| TAA4DI17K075S | 75 mm | | | | | | | | | | | | | | | | | | |
| TAA4DI20K307S | 3 7/16 in. | 22220 | 114.3 | 220.4 | 130.0 | 325.4 | 350.8 | 50.8 | 406.4 | 95.3 | 39.6 | M20 | 106.0 | 58.4 | 56.1 | 15.5 | 97.0 | 108.8 | 29 |
| TAA4DI20K308S | 3 1/2 in. | | 4.50 | 8.68 | 5.12 | 12.81 | 13.81 | 2.00 | 16.00 | 3.75 | 1.56 | 3/4 | 4.18 | 2.30 | 2.21 | 0.61 | 3.82 | 4.10 | 65 |
| TAA4DI20K090S | 90 mm | | | | | | | | | | | | | | | | | | |
| TAA4DI22K315S | 3 15/16 in. | 22222 | 127.0 | 250.8 | 145.0 | 333.4 | 374.7 | 50.8 | 443.0 | 101.6 | 44.5 | M20 | 113.8 | 63.0 | 62.5 | 16.6 | 105.0 | 121.8 | 40 |
| TAA4DI22K400S | 4 in. | | 5.00 | 9.88 | 5.71 | 13.13 | 14.75 | 2.00 | 17.44 | 4.00 | 1.75 | 3/4 | 4.48 | 2.48 | 2.46 | 0.66 | 4.13 | 4.60 | 88 |
| TAA4DI22K100S | 100 mm | | | | | | | | | | | | | | | | | | |
| TAA4DI26K407S | 4 7/16 in. | 22226 | 146.1 | 279.4 | 165.0 | 365.1 | 412.8 | 57.2 | 482.6 | 114.3 | 50.8 | M20 | 122.7 | 71.9 | 73.9 | 20.1 | 121.0 | 121.0 | 54 |
| TAA4DI26K408S | 4 1/2 in. | | 5.75 | 11.00 | 6.50 | 14.38 | 16.25 | 2.25 | 19.00 | 4.50 | 2.00 | 3/4 | 4.83 | 2.83 | 2.91 | 0.79 | 4.76 | 4.76 | 118 |
| TAA4DI26K115S | 115 mm | | | | | | | | | | | | | | | | | | |
| TAA4DI28K415S | 4 15/16 in. | 22228 | 158.8 | 311.2 | 180.0 | 393.7 | 458.7 | 63.5 | 520.7 | 120.4 | 50.8 | M24 | 134.6 | 77.5 | 79.3 | 10.5 | 131.0 | 131.0 | 72 |
| TAA4DI28K500S | 5 in. | | 6.25 | 12.25 | 7.09 | 15.50 | 18.06 | 2.50 | 20.50 | 4.74 | 2.00 | 7/8 | 5.30 | 3.05 | 3.12 | 0.41 | 5.16 | 5.16 | 159 |
| TAA4DI28K125S | 125 mm | | | | | | | | | | | | | | | | | | |
| TAA4DI32K140S | 140 mm | 23132 ⁽²⁾ | 181.1 | 352.6 | 210.0 | 482.6 | 524.0 | 76.2 | 601.7 | 165.1 | 63.5 | M24 | 168.7 | - | 90.5 | 19.1 | - | 185.0 | 119 |
| TAA4DI32K506S | 5 3/16 in. | | 7.13 | 13.88 | 8.27 | 19.00 | 20.63 | 3.00 | 23.69 | 6.50 | 2.50 | 1 | 6.64 | | 3.56 | 0.75 | | 7.28 | 263 |
| TAA4DI32K507S | 5 7/16 in. | | | | | | | | | | | | | | | | | | |
| TAA4DI32K508S | 5 1/2 in. | 23134 ⁽²⁾ | 181.1 | 352.6 | 220.0 | 482.6 | 524.0 | 76.2 | 601.7 | 167.6 | 63.5 | M24 | 169.6 | - | 94.7 | 15.0 | - | 186.7 | 120 |
| TAA4DI34K150S | 150 mm | | 7.13 | 13.88 | 8.66 | 19.00 | 20.63 | 3.00 | 23.69 | 6.60 | 2.50 | 1 | 6.68 | | 3.73 | 0.59 | | 7.35 | 264 |
| TAA4DI34K513S | 5 13/16 in. | | | | | | | | | | | | | | | | | | |
| TAA4DI34K514S | 5 7/8 in. | | | | | | | | | | | | | | | | | | |
| TAA4DI34K515S | 5 15/16 in. | | | | | | | | | | | | | | | | | | |
| TAA4DI34K600S | 6 in. | | | | | | | | | | | | | | | | | | |

⁽¹⁾Double-nut (TAA) part number shown. Single-nut (TA) version available upon request.

⁽²⁾Insert size 23132K and above come standard with double nut tapered adapter

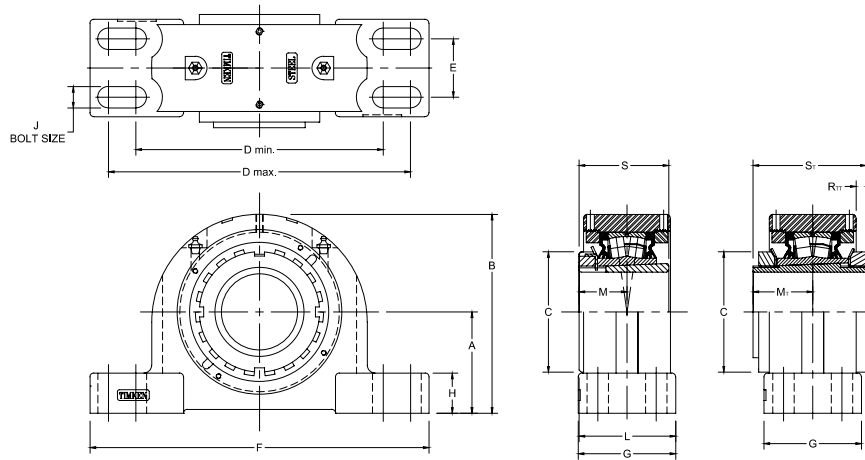
TAAPH SAF-STYLE FOUR-BOLT PILLOW BLOCKS



| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | E | F | G | H | J | L | M | M _T | R _T | S | S _T | Wt. |
|---------------------------------|-------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------|----------------|--------|----------------|---------|
| | 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. | mm in. | mm in. | mm in. | mm in. | mm lbs. |
| TAAPH11K115S | 1 15/16 in. | 22211 | 69.9 | 134.9 | 74.9 | 182.4 | 217.4 | 39.9 | 251.0 | 68.6 | 31.8 | 16 | 69.9 | 35.6 | 39.1 | 7.1 | 58.9 | 76.33 | 8.6 |
| TAAPH11K200S | 2 in. | | 2.75 | 5.31 | 2.95 | 7.18 | 8.56 | 1.57 | 9.88 | 2.70 | 1.25 | 5/8 | 2.75 | 1.40 | 1.54 | 0.28 | 2.32 | 3.01 | 19 |
| TAAPH11K050S | 50 mm | | | | | | | | | | | | | | | | | | |
| TAAPH13K203S | 2 3/16 in. | 22213 | 76.2 | 151.1 | 85.1 | 182.4 | 217.4 | 50.8 | 261.9 | 82.6 | 31.2 | 12 | 81.0 | 39.6 | 43.7 | 5.1 | 65.0 | 82.83 | 11.3 |
| TAAPH13K204S | 2 1/4 in. | | 3.00 | 5.95 | 3.35 | 7.18 | 8.56 | 2.00 | 10.31 | 3.25 | 1.23 | 1/2 | 3.19 | 1.56 | 1.72 | 0.20 | 2.56 | 3.26 | 25 |
| TAAPH13K060S | 60 mm | | | | | | | | | | | | | | | | | | |
| TAAPH15K207S | 2 7/16 in. | 22215 | 82.6 | 162.1 | 98.0 | 201.7 | 246.1 | 47.8 | 276.4 | 79.5 | 32.8 | 12 | 83.6 | 43.9 | 48.7 | 8.3 | 72.9 | 92.33 | 13.2 |
| TAAPH15K208S | 2 1/2 in. | | 3.25 | 6.38 | 3.86 | 7.94 | 9.69 | 1.88 | 10.88 | 3.13 | 1.29 | 1/2 | 3.29 | 1.73 | 1.92 | 0.33 | 2.87 | 3.64 | 29 |
| TAAPH15K065S | 65 mm | | | | | | | | | | | | | | | | | | |
| TAAPH16K211S | 2 11/16 in. | 22216 | 88.9 | 176.6 | 104.7 | 228.6 | 279.4 | 53.9 | 330.2 | 88.9 | 31.7 | 16 | 91.7 | 47.5 | 51.7 | 11.3 | 77.7 | 99.33 | 14.5 |
| TAAPH16K212S | 2 3/4 in. | | 3.50 | 6.96 | 4.12 | 9.00 | 11.00 | 2.13 | 13.00 | 3.50 | 1.25 | 5/8 | 3.61 | 1.87 | 2.04 | 0.45 | 3.06 | 3.91 | 32 |
| TAAPH16K070S | 70 mm | | | | | | | | | | | | | | | | | | |
| TAAPH17K215S | 2 15/16 in. | 22217 | 95.3 | 182.9 | 110.0 | 239.8 | 287.3 | 53.9 | 320.8 | 92.2 | 32.0 | 16 | 96.0 | 49.8 | 50.2 | 16.0 | 82.0 | 104.33 | 16.8 |
| TAAPH17K300S | 3 in. | | 3.75 | 7.20 | 4.33 | 9.44 | 11.31 | 2.13 | 12.63 | 3.63 | 1.26 | 5/8 | 3.78 | 1.96 | 1.98 | 0.63 | 3.23 | 4.12 | 37 |
| TAAPH17K075S | 75 mm | | | | | | | | | | | | | | | | | | |
| TAAPH18K303S | 3 3/16 in. | 22218 | 101.6 | 202.1 | 119.6 | 254.0 | 298.5 | 54.0 | 349.3 | 98.4 | 41.3 | 16 | 101.2 | 52.0 | 56.6 | 12.3 | 86.0 | 108.83 | 19.1 |
| TAAPH18K304S | 3 1/4 in. | | 4.00 | 7.96 | 4.71 | 10.00 | 11.75 | 2.13 | 13.75 | 3.88 | 1.63 | 5/8 | 3.98 | 2.05 | 2.23 | 0.49 | 3.39 | 4.28 | 42 |
| TAAPH18K080S | 80 mm | | | | | | | | | | | | | | | | | | |
| TAAPH20K307S | 3 7/16 in. | 22220 | 114.3 | 216.9 | 130.0 | 276.4 | 339.9 | 60.5 | 381 | 109.5 | 41.9 | 20 | 113.3 | 58.4 | 63.6 | 10.6 | 97.0 | 121.83 | 31.8 |
| TAAPH20K308S | 3 1/2 in. | | 4.50 | 8.54 | 5.12 | 10.88 | 13.38 | 2.38 | 15.00 | 4.31 | 1.65 | 3/4 | 4.46 | 2.30 | 2.51 | 0.42 | 3.82 | 4.80 | 70 |
| TAAPH20K090S | 90 mm | | | | | | | | | | | | | | | | | | |
| TAAPH22K315S | 3 15/16 in. | 22222 | 125.5 | 238.3 | 145.0 | 301.8 | 368.3 | 69.9 | 406.4 | 120.7 | 45.0 | 20 | 123.4 | 63.0 | 65.8 | 14.1 | 104.9 | 130.7 | 39.5 |
| TAAPH22K400S | 4 in. | | 4.94 | 9.38 | 5.71 | 11.88 | 14.50 | 2.75 | 16.00 | 4.75 | 1.77 | 3/4 | 4.86 | 2.48 | 2.59 | 0.56 | 4.13 | 5.15 | 87 |
| TAAPH22K100S | 100 mm | | | | | | | | | | | | | | | | | | |
| TAAPH24K403S | 4 3/16 in. | 22224 | 133.4 | 256.7 | 154.5 | 330.2 | 368.3 | 69.9 | 419.1 | 120.7 | 50.8 | 20 | 127.3 | 67.0 | 71.6 | 18.7 | 112.0 | 139.15 | 49.9 |
| TAAPH24K404S | 4 1/4 in. | | 5.25 | 10.11 | 6.08 | 13.00 | 14.50 | 2.75 | 16.50 | 4.75 | 2.00 | 3/4 | 5.01 | 2.64 | 2.82 | 0.73 | 4.41 | 5.48 | 110 |
| TAAPH24K110S | 110 mm | | | | | | | | | | | | | | | | | | |
| TAAPH26K407S | 4 7/16 in. | 22226 | 152.4 | 284.0 | 165.1 | 362.0 | 406.4 | 82.6 | 450.85 | 128.0 | 51.8 | 22 | 135.9 | 71.9 | 76.6 | 20.4 | 120.9 | 149.65 | 61.7 |
| TAAPH26K408S | 4 1/2 in. | | 6.00 | 11.18 | 6.50 | 14.25 | 16.00 | 3.25 | 17.75 | 5.04 | 2.04 | 7/8 | 5.35 | 2.83 | 3.01 | 0.80 | 4.76 | 5.89 | 136 |
| TAAPH26K115S | 115 mm | | | | | | | | | | | | | | | | | | |
| TAAPH28K415S | 4 15/16 in. | 22228 | 152.4 | 290.8 | 180.1 | 406.4 | 435.1 | 85.9 | 500.4 | 128.0 | 51.8 | 24 | 141.5 | 77.5 | 85.2 | 18.3 | 131.1 | 161.15 | 61.8 |
| TAAPH28K500S | 5 in. | | 6.00 | 11.45 | 7.09 | 16.00 | 17.13 | 3.38 | 19.70 | 5.04 | 2.04 | 1 | 5.57 | 3.05 | 3.35 | 0.72 | 5.16 | 6.34 | 136 |
| TAAPH28K125S | 125 mm | | | | | | | | | | | | | | | | | | |

⁽¹⁾Double-nut (TAA/DAA) part number shown. Single-nut (TA/DV) version available upon request.

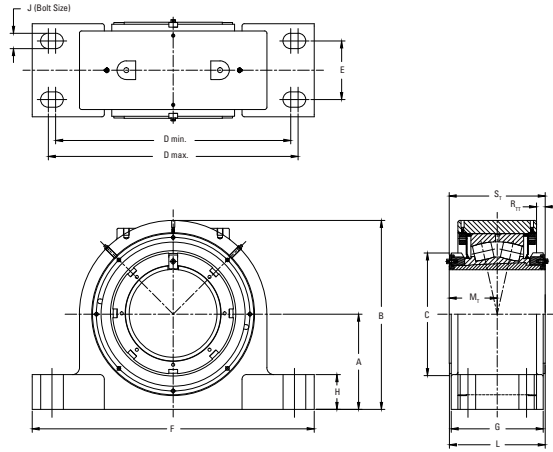
TAAPH SAF 500-STYLE FOUR-BOLT PILLOW BLOCKS



| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | E | F | G | H | J | L | M _T | R _{T1} | S _T | Wt. |
|---------------------------------|---------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|------------|--------------|----------------|-----------------|----------------|--------------|
| | | | 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. | mm in. | mm in. |
| TAAPH30K503S0 | 5 3/16 in. | 23130 | 160.3 | 320.6 | 200.0 | 431.8 | 463.6 | 95.2 | 539.8 | 171.5 | 66.2 | M24 | 170 | 84 | 8 | 175 | 95.2 |
| TAAPH30K504S0 | 5 1/4 in. | | 6.31 | 12.62 | 7.89 | 17.00 | 18.25 | 3.75 | 21.25 | 6.75 | 2.61 | 1 | 6.69 | 3.32 | 0.32 | 6.89 | 210 |
| TAAPH30K135S0 | 135 mm | | | | | | | | | | | | | | | | |
| TAAPH32K140S0 | 140 mm | 23132 | | | | | | | | | | | | | | | |
| TAAPH32K506S0 | 5 3/8 in. | | 169.9 | 330.2 | 210.0 | 441.3 | 489.0 | 95.2 | 558.8 | 171.5 | 76.2 | M24 | 176 | 91 | 12 | 185 | 122.4 |
| TAAPH32K507S0 | 5 7/16 in. | | 6.69 | 13.00 | 8.27 | 17.38 | 19.25 | 3.75 | 22.00 | 6.75 | 3.00 | 1 | 6.94 | 3.56 | 0.47 | 7.28 | 270 |
| TAAPH32K508S0 | 5 1/2 in. | | | | | | | | | | | | | | | | |
| TAAPH34K150S0 | 150 mm | 23134 | | | | | | | | | | | | | | | |
| TAAPH34K513S0 | 5 13/16 in. | | 179.4 | 339.8 | 220.0 | 493.6 | 549.4 | 108.0 | 628.7 | 171.5 | 85.9 | M24 | 180 | 95 | 13 | 188 | 132.9 |
| TAAPH34K514S0 | 5 7/8 in. | | 7.06 | 13.38 | 8.66 | 19.38 | 21.63 | 4.25 | 24.75 | 6.75 | 3.38 | 1 | 7.10 | 3.73 | 0.52 | 7.38 | 293 |
| TAAPH34K515S0 | 5 15/16 in. | | | | | | | | | | | | | | | | |
| TAAPH34K600S0 | 6 in. | | | | | | | | | | | | | | | | |
| TAAPH36K160S0 | 160 mm | 23136 | | | | | | | | | | | | | | | |
| TAAPH36K605S0 | 6 3/16 in. | | 190.5 | 391.2 | 230.0 | 531.8 | 600.2 | 117.5 | 679.5 | 190.5 | 76.2 | M24 | 196 | 99 | 14 | 197 | 159.2 |
| TAAPH36K606S0 | 6 3/8 in. | | 7.50 | 15.40 | 9.06 | 20.88 | 23.63 | 4.63 | 26.75 | 7.5 | 3.00 | 1 | 7.72 | 3.90 | 0.57 | 7.74 | 351 |
| TAAPH36K607S0 | 6 7/16 in. | | | | | | | | | | | | | | | | |
| TAAPH36K608S0 | 6 1/2 in. | | | | | | | | | | | | | | | | |
| TAAPH38K170S0 | 170 mm | 23138 | | | | | | | | | | | | | | | |
| TAAPH38K613S0 | 6 13/16 in. | | 200.0 | 400.1 | 240.0 | 550.9 | 619.3 | 114.3 | 711.2 | 190.5 | 85.9 | M30 | 206.7 | 105 | 13.2 | 208 | 185.9 |
| TAAPH38K614S0 | 6 7/8 in. | | 7.88 | 15.75 | 9.45 | 21.63 | 24.38 | 4.50 | 28.00 | 7.50 | 3.38 | 1 1/4 | 8.14 | 4.13 | 0.52 | 8.17 | 410 |
| TAAPH38K615S0 | 6 15/16 in. | | | | | | | | | | | | | | | | |
| TAAPH38K700S0 | 7 in. | | | | | | | | | | | | | | | | |
| TAAPH40K180S0 | 180 mm | 23140 | | | | | | | | | | | | | | | |
| TAAPH40K702S0 | 7 1/8 in. | | 209.6 | 429.3 | 250.0 | 573.1 | 635.0 | 127.0 | 749.3 | 210.0 | 80.0 | M30 | 215 | 110 | 16 | 218 | 207.7 |
| TAAPH40K703S0 | 7 3/16 in. | | 8.25 | 16.16 | 9.84 | 22.50 | 25.00 | 5.00 | 29.50 | 8.27 | 3.15 | 1 1/4 | 8.46 | 4.32 | 0.65 | 8.57 | 458 |
| TAAPH40K704S0 | 7 1/4 in. | | | | | | | | | | | | | | | | |
| TAAPH44K200S0 | 200 mm | 23144 | | | | | | | | | | | | | | | |
| TAAPH44K713S0 | 7 13/16 in. | | 241.3 | 455.3 | 280.0 | 630.4 | 708.2 | 133.4 | 831.9 | 225.0 | 85.1 | M36 | 231 | 119 | 21 | 235 | 284.4 |
| TAAPH44K714S0 | 7 7/8 in. | | 9.50 | 17.93 | 11.02 | 24.75 | 27.88 | 5.25 | 32.75 | 8.86 | 3.35 | 1 1/2 | 9.11 | 4.68 | 0.81 | 9.24 | 627 |
| TAAPH44K715S0 | 7 15/16 in. | | | | | | | | | | | | | | | | |
| TAAPH44K800S0 | 8 in. | | | | | | | | | | | | | | | | |

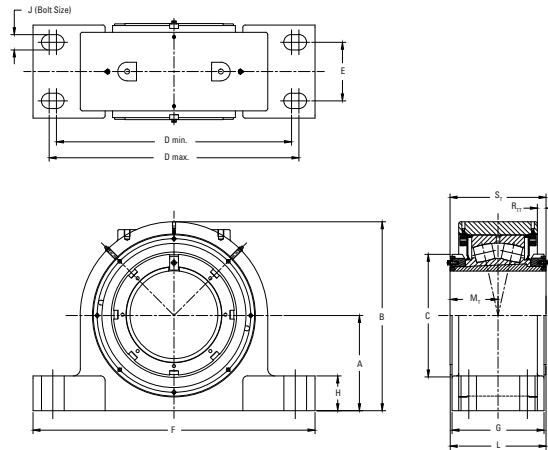
⁽¹⁾Insert size 23132K and above come standard with double nut tapered adapter

TAAPHD SDAF 500-STYLE FOUR-BOLT PILLOW BLOCKS



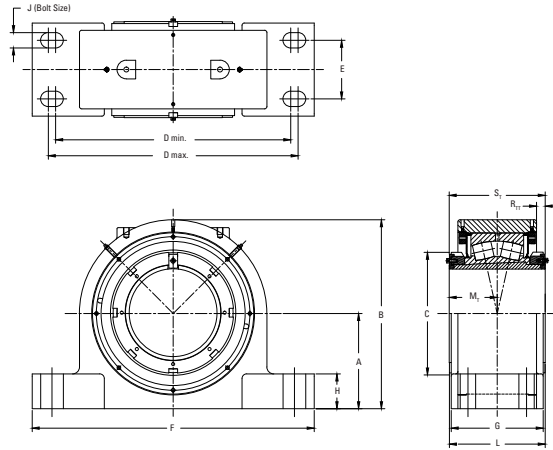
| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | E | F | G | H | J | L | M _T | R _T | S _T | Wt. |
|---------------------------------|---------------|-------------|----------------------|-----------------------|----------------------|-----------------------|-----------------------|----------------------|-----------------------|----------------------|---------------------|---------------------|--------------------|--------------------|-------------------|--------------------|---------------------|
| | 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. | mm in. | mm in. | kg lbs. |
| TAAPH34DK150S0 | 150 mm | 23134 | 179.3 7.06 | 370.0 14.60 | 199.9 7.87 | 492.3 19.38 | 549.4 21.63 | 139.7 5.50 | 628.7 24.75 | 215.9 8.50 | 65.0 2.56 | M30 1 ¼ | 203 7.98 | 95 3.73 | 13 0.52 | 188 7.38 | 132.9 293 |
| TAAPH34DK513S0 | 5 13/16 in. | | | | | | | | | | | | | | | | |
| TAAPH34DK514S0 | 5 7/8 in. | | | | | | | | | | | | | | | | |
| TAAPH34DK515S0 | 5 15/16 in. | | | | | | | | | | | | | | | | |
| TAAPH34DK600S0 | 6 in. | | | | | | | | | | | | | | | | |
| TAAPH36DK160S0 | 160 mm | 23136 | 190.5 7.50 | 391.2 15.40 | 210.1 8.27 | 530.4 20.88 | 600.2 23.63 | 149.4 5.88 | 679.5 26.75 | 219.5 8.64 | 69.9 2.75 | M30 1 ¼ | 209 8.22 | 99 3.90 | 14 0.57 | 197 7.74 | 158.3 349 |
| TAAPH36DK605S0 | 6 3/16 in. | | | | | | | | | | | | | | | | |
| TAAPH36DK606S0 | 6 3/8 in. | | | | | | | | | | | | | | | | |
| TAAPH36DK607S0 | 6 7/16 in. | | | | | | | | | | | | | | | | |
| TAAPH36DK608S0 | 6 1/2 in. | | | | | | | | | | | | | | | | |
| TAAPH38DK170S0 | 170 mm | 23138 | 200.1 7.88 | 410.8 16.17 | 219.9 8.66 | 546.1 21.50 | 596.9 23.50 | 158.8 6.25 | 701.8 27.63 | 235.0 9.25 | 74.9 2.95 | M30 1 3/8 | 199 7.83 | 104 4.08 | 13 0.52 | 208 8.17 | 186.8 412 |
| TAAPH38DK613S0 | 6 13/16 in. | | | | | | | | | | | | | | | | |
| TAAPH38DK614S0 | 6 7/8 in. | | | | | | | | | | | | | | | | |
| TAAPH38DK615S0 | 6 15/16 in. | | | | | | | | | | | | | | | | |
| TAAPH38DK700S0 | 7 in. | | | | | | | | | | | | | | | | |
| TAAPH40DK180S0 | 180 mm | 23140 | 209.5 8.25 | 429.2 16.90 | 240.0 9.45 | 584.2 23.00 | 635.0 25.00 | 171.5 6.75 | 730.3 28.75 | 247.7 9.75 | 80.0 3.15 | M30 1 3/8 | 234 9.21 | 110 4.32 | 16 0.65 | 218 8.57 | 220.4 486 |
| TAAPH40DK702S0 | 7 1/8 in. | | | | | | | | | | | | | | | | |
| TAAPH40DK703S0 | 7 3/16 in. | | | | | | | | | | | | | | | | |
| TAAPH40DK704S0 | 7 1/4 in. | | | | | | | | | | | | | | | | |
| TAAPH44DK200S0 | 200 mm | | | | | | | | | | | | | | | | |
| TAAPH44DK713S0 | 7 13/16 in. | | | | | | | | | | | | | | | | |
| TAAPH44DK714S0 | 7 7/8 in. | | | | | | | | | | | | | | | | |
| TAAPH44DK715S0 | 7 15/16 in. | | | | | | | | | | | | | | | | |
| TAAPH44DK800S0 | 8 in. | | | | | | | | | | | | | | | | |

TAAPH6 SAF 600-STYLE FOUR-BOLT PILLOW BLOCKS



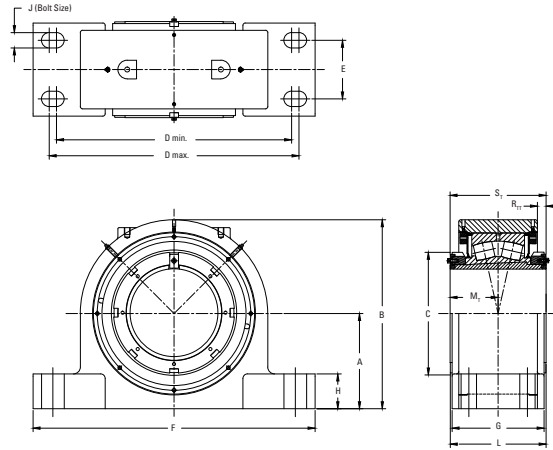
| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | E | F | G | H | J | L | M _T | R _T | S _T | Wt. |
|---------------------------------|---------------|-------------|----------------------|-----------------------|----------------------|-----------------------|-----------------------|----------------------|-----------------------|----------------------|---------------------|-------------------|----------------------|--------------------|-------------------|----------------------|---------------------|
| | 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. | mm in. | mm in. | kg lbs. |
| TAAPH634K513S0 | 150 mm | 23134 | 209.6 8.25 | 400.4 15.76 | 220.0 8.66 | 571.5 22.50 | 635.0 25.00 | 127.0 5.00 | 749.3 29.50 | 203.2 8.00 | 65.0 2.56 | M30 1 ¼ | 196 7.73 | 95 3.73 | 13 0.53 | 187.5 7.38 | 161.1 355 |
| TAAPH634K514S0 | 5 13/16 in. | | | | | | | | | | | | | | | | |
| TAAPH634K515S0 | 5 7/8 in. | | | | | | | | | | | | | | | | |
| TAAPH634K600S0 | 5 15/16 in. | | | | | | | | | | | | | | | | |
| TAAPH634K150S0 | 6 in. | | | | | | | | | | | | | | | | |
| TAAPH636K605S0 | 160 mm | 23136 | 225.4 8.88 | 426.7 16.80 | 230.0 9.06 | 609.6 24.00 | 676.3 26.63 | 133.4 5.25 | 793.8 31.25 | 250.8 9.88 | 69.9 2.75 | M30 1 ¼ | 224 8.84 | 99 3.90 | 14 0.57 | 197 7.74 | 193.6 427 |
| TAAPH636K606S0 | 6 5/16 in. | | | | | | | | | | | | | | | | |
| TAAPH636K607S0 | 6 3/8 in. | | | | | | | | | | | | | | | | |
| TAAPH636K608S0 | 6 7/16 in. | | | | | | | | | | | | | | | | |
| TAAPH636K160S0 | 6 1/2 in. | | | | | | | | | | | | | | | | |
| TAAPH638K613S0 | 170 mm | 23138 | 241.3 9.50 | 452.1 17.80 | 240.0 9.45 | 268.7 24.75 | 708.0 27.88 | 133.4 5.25 | 831.9 32.75 | 209.6 8.25 | 74.9 2.95 | M36 1 ½ | 210 8.26 | 105 4.13 | 15 0.60 | 208 8.17 | 229.1 505 |
| TAAPH638K614S0 | 6 13/16 in. | | | | | | | | | | | | | | | | |
| TAAPH638K615S0 | 6 7/8 in. | | | | | | | | | | | | | | | | |
| TAAPH638K700S0 | 6 15/16 in. | | | | | | | | | | | | | | | | |
| TAAPH638K170S0 | 7 in. | | | | | | | | | | | | | | | | |
| TAAPH640K702S0 | 180 mm | 23140 | 250.8 9.88 | 472.4 18.6 | 250.0 9.84 | 666.8 26.25 | 749.3 29.50 | 139.7 5.50 | 870.0 34.3 | 215.9 8.50 | 80.0 3.15 | M36 1 ½ | 217.9 8.58 | 110 4.32 | 16 0.65 | 218 8.57 | 272.4 601 |
| TAAPH640K703S0 | 7 1/8 in. | | | | | | | | | | | | | | | | |
| TAAPH640K704S0 | 7 3/16 in. | | | | | | | | | | | | | | | | |
| TAAPH640K180S0 | 7 1/4 in. | | | | | | | | | | | | | | | | |

TAAPH6D SDAF 600-STYLE FOUR-BOLT PILLOW BLOCKS



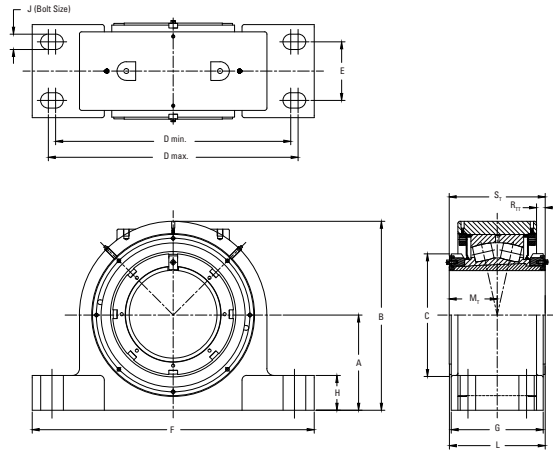
| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | E | F | G | H | J | L | M _T | R _T | S _T | Wt. |
|---------------------------------|-------------|-------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------------|--------------|--------------|---------------|----------------|----------------|----------------|--------------|
| | 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. | mm in. | mm in. | kg lbs. |
| TAAPH634DK150SO | 150 mm | 23134 | 209.6 8.25 | 400.4 15.76 | 220.0 8.66 | 584.2 23.00 | 635.0 25.00 | 171.5 6.75 | 730.3 28.75 | 247.7 9.75 | 65.0 2.56 | M30 1 3/8 | 219 8.60 | 95 3.73 | 13 0.53 | 187.5 7.38 | 158.4 349 |
| TAAPH634DK513SO | 5 13/16 in. | | | | | | | | | | | | | | | | |
| TAAPH634DK514SO | 5 7/8 in. | | | | | | | | | | | | | | | | |
| TAAPH634DK515SO | 5 15/16 in. | | | | | | | | | | | | | | | | |
| TAAPH634DK600SO | 6 in. | | | | | | | | | | | | | | | | |
| TAAPH636DK160SO | 160 mm | 23136 | 225.4 8.88 | 426.7 16.80 | 230.0 9.06 | 612.8 24.13 | 669.9 26.38 | 174.6 6.88 | 774.7 30.50 | 250.8 9.88 | 69.9 2.75 | M36 1 1/2 | 224 8.84 | 99 3.90 | 14 0.57 | 197 7.74 | 189.6 418 |
| TAAPH636DK605SO | 6 5/16 in. | | | | | | | | | | | | | | | | |
| TAAPH636DK606SO | 6 3/8 in. | | | | | | | | | | | | | | | | |
| TAAPH636DK607SO | 6 7/16 in. | | | | | | | | | | | | | | | | |
| TAAPH636DK608SO | 6 1/2 in. | | | | | | | | | | | | | | | | |
| TAAPH638DK170SO | 170 mm | 23138 | 241.3 9.50 | 452.1 17.80 | 240.0 9.45 | 650.9 25.63 | 708.0 27.88 | 184.2 7.25 | 812.8 32.00 | 260.4 10.25 | 74.9 2.95 | M36 1 1/2 | 235 9.26 | 105 4.13 | 15 0.60 | 208 8.17 | 226.4 500 |
| TAAPH638DK613SO | 6 13/16 in. | | | | | | | | | | | | | | | | |
| TAAPH638DK614SO | 6 7/8 in. | | | | | | | | | | | | | | | | |
| TAAPH638DK615SO | 6 15/16 in. | | | | | | | | | | | | | | | | |
| TAAPH638DK700SO | 7 in. | | | | | | | | | | | | | | | | |
| TAAPH640DK180SO | 180 mm | 23140 | 250.8 9.88 | 472.4 18.6 | 250.0 9.84 | 676.3 26.63 | 743.0 29.25 | 193.7 7.63 | 850.9 33.5 | 269.9 10.63 | 80.0 3.15 | M36 1 3/8 | 244.9 9.64 | 110 4.32 | 16 0.65 | 218 8.57 | 268.3 592 |
| TAAPH640DK702SO | 7 1/8 in. | | | | | | | | | | | | | | | | |
| TAAPH640DK703SO | 7 3/8 in. | | | | | | | | | | | | | | | | |
| TAAPH640DK704SO | 7 1/4 in. | | | | | | | | | | | | | | | | |

TAAPH0 SAF 230-STYLE FOUR-BOLT PILLOW BLOCKS



| Bearing Part No. | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | E | F | G | H | J | L | M _T | R _{TT} | S _T | Wt. |
|------------------|---------------|-------------|----------------------|-----------------------|---------------------|-----------------------|-----------------------|----------------------|-----------------------|----------------------|---------------------|---------------------|-----------------------|----------------------|---------------------|---------------------|-------------------|
| | | | 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. | mm in. | mm in. |
| TAAPH034K150S0 | 150 mm | 23134 | 152.4 6.00 | 330.2 13.00 | 220 8.66 | 406.4 16.00 | 435.1 17.13 | 85.7 3.38 | 511.3 20.13 | 171.5 6.75 | 65.0 2.56 | M24 1 | 184.8 7.28 | 99 3.90 | 9.10 0.36 | 188 7.38 | 106 234 |
| TAAPH034K513S0 | 5 13/16 in. | | | | | | | | | | | | | | | | |
| TAAPH034K514S0 | 5 7/8 in. | | | | | | | | | | | | | | | | |
| TAAPH034K515S0 | 5 9/16 in. | | | | | | | | | | | | | | | | |
| TAAPH034K600S0 | 6 in. | | | | | | | | | | | | | | | | |
| TAAPH036K160S0 | 160 mm | 23136 | 169.9 6.69 | 342.9 13.5 | 230 9.06 | 441.4 17.38 | 488.9 19.25 | 95.3 3.75 | 558.8 22.00 | 180.1 7.09 | 59.9 2.36 | M24 1 | 189.1 7.45 | 99 3.90 | 14.0 0.57 | 197 7.74 | 131 289 |
| TAAPH036K605S0 | 6 3/16 in. | | | | | | | | | | | | | | | | |
| TAAPH036K606S0 | 6 3/8 in. | | | | | | | | | | | | | | | | |
| TAAPH036K607S0 | 6 7/16 in. | | | | | | | | | | | | | | | | |
| TAAPH036K608S0 | 6 1/2 in. | | | | | | | | | | | | | | | | |
| TAAPH038K170S0 | 170 mm | 23138 | 169.9 6.69 | 355.6 14.00 | 240 9.45 | 441.5 17.38 | 488.9 19.25 | 95.2 3.75 | 558.8 22.00 | 196.2 7.72 | 54.9 2.16 | M24 1 | 203.0 7.99 | 105 4.13 | 15.3 0.60 | 208 8.17 | 145 319 |
| TAAPH038K613S0 | 6 13/16 in. | | | | | | | | | | | | | | | | |
| TAAPH038K614S0 | 6 7/8 in. | | | | | | | | | | | | | | | | |
| TAAPH038K615S0 | 6 9/16 in. | | | | | | | | | | | | | | | | |
| TAAPH034K700S0 | 7 in. | | | | | | | | | | | | | | | | |
| TAAPH040K180S0 | 180 mm | 23140 | 179.3 7.06 | 380.5 14.98 | 250 9.84 | 492.3 19.38 | 549.4 21.63 | 107.0 4.25 | 628.6 24.75 | 206.2 8.12 | 49.3 1.94 | M24 1 | 213.1 8.39 | 110 4.32 | 16.4 0.65 | 218 8.57 | 182 401 |
| TAAPH040K702S0 | 7 1/8 in. | | | | | | | | | | | | | | | | |
| TAAPH040K703S0 | 7 3/16 in. | | | | | | | | | | | | | | | | |
| TAAPH040K704S0 | 7 1/4 in. | | | | | | | | | | | | | | | | |
| TAAPH044K200S0 | 200 mm | | | | | | | | | | | | | | | | |
| TAAPH044K713S0 | 7 13/16 in. | | | | | | | | | | | | | | | | |
| TAAPH044K714S0 | 7 7/8 in. | | | | | | | | | | | | | | | | |
| TAAPH044K715S0 | 7 15/16 in. | | | | | | | | | | | | | | | | |
| TAAPH044K800S0 | 8 in. | | | | | | | | | | | | | | | | |
| TAAPH048K220S0 | 220 mm | 23148 | 209.5 8.25 | 459.7 18.10 | 300 11.81 | 571.5 22.50 | 635.0 25.00 | 127.0 5.00 | 749.3 29.50 | 203.2 8.00 | 89.9 3.54 | M30 1 1/4 | 226.6 8.92 | 125 4.93 | 22.4 0.88 | 247 9.71 | 270 595 |
| TAAPH048K807S0 | 8 7/16 in. | | | | | | | | | | | | | | | | |
| TAAPH048K808S0 | 8 1/2 in. | | | | | | | | | | | | | | | | |
| TAAPH048K815S0 | 8 9/16 in. | | | | | | | | | | | | | | | | |
| TAAPH048K900S0 | 9 in. | | | | | | | | | | | | | | | | |
| TAAPH052K240S0 | 240 mm | 23152 | 241.3 9.5 | 512.1 20.16 | 330 12.99 | 628.6 24.75 | 708.1 27.88 | 133.3 5.25 | 831.8 32.75 | 236.2 9.30 | 76.2 3.00 | M36 1 1/2 | 256.5 10.10 | 138.4 5.45 | 29.1 1.15 | 275 10.82 | 346 764 |
| TAAPH052K907S0 | 9 7/16 in. | | | | | | | | | | | | | | | | |
| TAAPH052K908S0 | 9 1/2 in. | | | | | | | | | | | | | | | | |

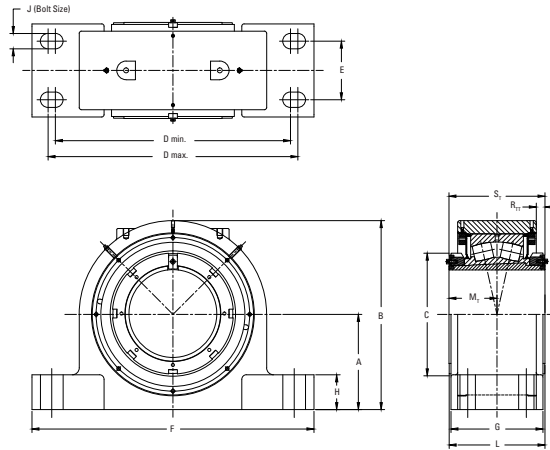
TAAPH0 SDAF 230-STYLE FOUR-BOLT PILLOW BLOCKS



| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | E | F | G | H | J | L | M _T | R _T | S _T | Wt. |
|---------------------------------|---------------|-------------|----------------|----------------|--------------|----------------|-----------------|----------------|-----------------|----------------|---------------|------------|----------------|----------------|----------------|----------------|--------------|
| | 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. | mm in. | mm in. | kg lbs. |
| TAAPH056K260S0 | 260 mm | 23156 | 250.9 9.88 | 522.0 20.55 | 350 13.78 | 666.7 26.25 | 749.3 29.50 | 139.7 5.50 | 869.0 34.25 | 236.2 9.30 | 71.1 2.80 | M36 1 ½ | 256.8 10.11 | 139 5.46 | 20.2 0.80 | 275 10.83 | 421 928 |
| TAAPH056K915S0 | 9 15/16 in. | | | | | | | | | | | | | | | | |
| TAAPH056K1000S0 | 10 in. | | | | | | | | | | | | | | | | |
| TAAPH056K1007S0 | 10 7/16 in. | | | | | | | | | | | | | | | | |
| TAAPH056K1008S0 | 10 ½ in. | 23160 | 304.8 12.00 | 595.9 23.46 | 380 14.96 | 831.8 32.75 | 850.9 33.50 | 228.6 9.00 | 971.6 38.25 | 304.8 12.00 | 104.9 4.13 | M42 1 ¾ | 297.9 11.73 | 146 5.73 | 146 5.73 | 287 11.29 | 569 1255 |
| TAAPH060K280S0 | 280 mm | | | | | | | | | | | | | | | | |
| TAAPH060K1015S0 | 10 15/16 in. | | | | | | | | | | | | | | | | |
| TAAPH060K1100S0 | 11 in. | | | | | | | | | | | | | | | | |
| TAAPH064K300S0 | 300 mm | 23164 | 304.8 12.00 | 616.0 24.25 | 400 15.75 | 831.9 32.75 | 850.9 33.50 | 228.6 9.00 | 971.6 38.25 | 342.9 13.50 | 89.4 3.52 | M42 1 ¾ | 327.1 12.88 | 156 6.13 | 19.8 0.78 | 307 12.07 | 618 1362 |
| TAAPH064K1107S0 | 11 7/16 in. | | | | | | | | | | | | | | | | |
| TAAPH064K1108S0 | 11 ½ in. | | | | | | | | | | | | | | | | |
| TAAPH064K1115S0 | 11 15/16 in. | | | | | | | | | | | | | | | | |
| TAAPH064K1200S0 | 12 in. | 23168 | 304.8 12.00 | 645.6 25.42 | 440 17.32 | 812.8 32.00 | 850.9 33.50 | 254.0 10.00 | 990.6 39.00 | 349.3 13.75 | 64.3 2.53 | M48 1 ¾ | 350.4 13.80 | 176 6.92 | 32.7 1.29 | 347 13.65 | 709 1564 |
| TAAPH068K320S0 | 320 mm | | | | | | | | | | | | | | | | |
| TAAPH068K1207S0 | 12 7/16 in. | | | | | | | | | | | | | | | | |
| TAAPH068K1208S0 | 12 ½ in. | | | | | | | | | | | | | | | | |
| TAAPH072K340S0 | 340 mm | 23172 | 325.3 12.81 | 670.6 26.39 | 460 18.11 | 889.0 35.00 | 927.1 36.50 | 266.7 10.50 | 1060.4 41.75 | 368.3 14.50 | 72.1 2.84 | M48 1 ¾ | 357.5 14.08 | 180 7.08 | 35.8 1.41 | 355 13.96 | 802 1770 |
| TAAPH072K1215S0 | 12 15/16 in. | | | | | | | | | | | | | | | | |
| TAAPH072K1300S0 | 13 in. | | | | | | | | | | | | | | | | |
| TAAPH072K1307S0 | 13 7/16 in. | | | | | | | | | | | | | | | | |
| TAAPH072K1308S0 | 13 ½ in. | 23176 | 325.3 12.81 | 680.5 26.79 | 490 19.29 | 889.0 35.00 | 927.1 36.50 | 266.7 10.50 | 1060.4 41.75 | 342.9 13.50 | 115.0 4.53 | M48 1 ¾ | 354.5 13.96 | 183 7.21 | 37.4 1.47 | 361 14.20 | 845 1863 |
| TAAPH076K360S0 | 360 mm | | | | | | | | | | | | | | | | |
| TAAPH076K1315S0 | 13 15/16 in. | | | | | | | | | | | | | | | | |
| TAAPH076K1400S0 | 14 in. | | | | | | | | | | | | | | | | |
| TAAPH080K380S0 | 380 mm | 23180 | 368.3 14.50 | 763.3 30.05 | 520 20.47 | 996.9 39.25 | 1035.0 40.75 | 279.4 11.00 | 1168.4 46.00 | 406.4 16.00 | 94.5 3.72 | M50 2 | 381.7 15.03 | 188 7.40 | 39.4 1.55 | 371 14.59 | 1126 2482 |
| TAAPH080K1415S0 | 14 15/16 in. | | | | | | | | | | | | | | | | |
| TAAPH080K1500S0 | 15 in. | | | | | | | | | | | | | | | | |

⁽¹⁾Insert size 23132K and above come standard with double nut tapered adapter

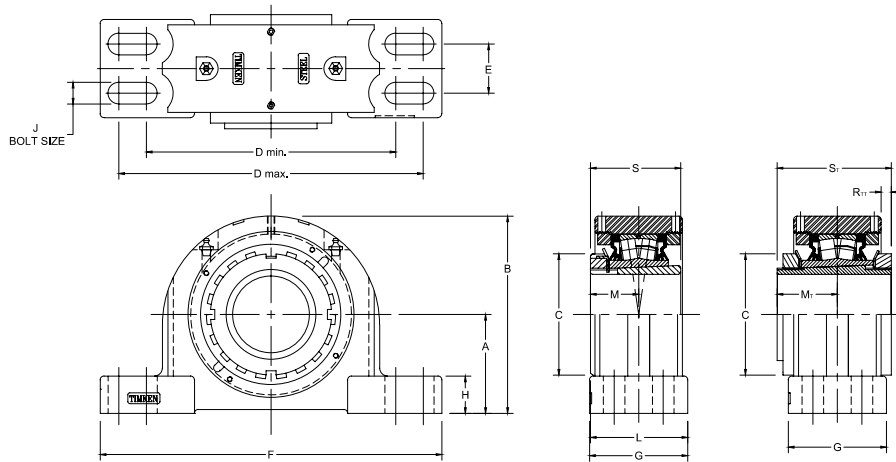
TAAPH1 SDAF 231-STYLE FOUR-BOLT PILLOW BLOCKS



| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | E | F | G | H | J | L | M _T | R _{IT} | S _T | Wt. | | | | | | | | | | | | | | | | |
|---------------------------------|---------------|-------------|--------------|------------|------------|---------------|---------------|--------------|---------------|--------------|--------------|------------|------------|----------------|-----------------|----------------|-------------|--------|---------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|------|-------|------|--|
| | | | 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. | mm in. | mm in. | mm in. | kg lbs. | | | | | | | | | | | | | | |
| TAAPH152K240S0 | 240 mm | 23152 | 260.3 | 531 | 330 | 736.6 | 774.7 | 222.2 | 889.0 | 298.5 | 95.0 | M42 | 288 | 138 | 29 | 275 | 379 | | | | | | | | | | | | | | | | |
| TAAPH152K907S0 | 9 7/16 in. | | 10.25 | 20.91 | 12.99 | 29.00 | 30.50 | 8.75 | 35.00 | 11.75 | 3.74 | 1 3/4 | 11.33 | 5.45 | 1.15 | 10.82 | 836 | | | | | | | | | | | | | | | | |
| TAAPH152K908S0 | 9 1/2 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TAAPH156K260S0 | 260 mm | 23156 | 304.8 | 576 | 350 | 762 | 851 | 228.6 | 971.5 | 330.2 | 101.6 | M42 | 304 | 139 | 20 | 275 | 512 | | | | | | | | | | | | | | | | |
| TAAPH156K915S0 | 9 15/16 in. | | | | | | | | | | | | | | | | | 12.00 | 22.67 | 13.78 | 30.00 | 33.50 | 9.00 | 38.25 | 13.00 | 4.00 | 1 3/4 | 11.96 | 5.46 | 0.88 | 10.83 | 1130 | |
| TAAPH156K1000S0 | 10 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TAAPH156K1007S0 | 10 7/16 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TAAPH156K1008S0 | 10 1/2 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TAAPH160K280S0 | 280 mm | 23160 | 304.8 | 596 | 380 | 831.8 | 850.9 | 228.6 | 971.6 | 305.0 | 104.9 | M42 | 298 | 146 | 18 | 287 | 569 | | | | | | | | | | | | | | | | |
| TAAPH160K1015S0 | 10 15/16 in. | | | | | | | | | | | | | | | | | 12.00 | 23.46 | 14.96 | 32.75 | 33.50 | 9.00 | 38.25 | 12.00 | 4.33 | 1 3/4 | 11.73 | 5.73 | 0.71 | 11.29 | 1255 | |
| TAAPH160K1100S0 | 11 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TAAPH164K300S0 | 300 mm | 23164 | 325.4 | 636 | 400 | 889.0 | 927.1 | 266.7 | 1060.5 | 342.9 | 109.9 | M42 | 327 | 156 | 20 | 307 | 676 | | | | | | | | | | | | | | | | |
| TAAPH164K1107S0 | 11 7/16 in. | | | | | | | | | | | | | | | | | 12.81 | 25.06 | 15.75 | 35.00 | 36.50 | 10.50 | 41.75 | 13.50 | 4.33 | 1 3/4 | 12.88 | 6.13 | 0.78 | 12.07 | 1490 | |
| TAAPH164K1108S0 | 11 1/2 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TAAPH164K1115S0 | 11 15/16 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TAAPH164K1200S0 | 12 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TAAPH168K320S0 | 320 mm | 23168 | 355.6 | 696 | 440 | 933.5 | 971.6 | 273.1 | 1111.3 | 349 | 115.0 | M50 | 350 | 176 | 33 | 347 | 841 | | | | | | | | | | | | | | | | |
| TAAPH168K1207S0 | 12 7/16 in. | | | | | | | | | | | | | | | | | 14.00 | 27.42 | 17.32 | 36.75 | 38.25 | 10.75 | 43.75 | 13.75 | 4.53 | 2 | 13.80 | 6.92 | 1.29 | 13.65 | 1855 | |
| TAAPH168K1208S0 | 12 1/2 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TAAPH172K340S0 | 340 mm | 23172 | 368.3 | 713 | 460 | 996.9 | 1035.0 | 279.4 | 1168.4 | 368.3 | 115.0 | M50 | 358 | 180 | 36 | 355 | 920 | | | | | | | | | | | | | | | | |
| TAAPH172K1215S0 | 12 15/16 in. | | | | | | | | | | | | | | | | | 14.50 | 28.08 | 18.11 | 39.25 | 40.75 | 11.00 | 46.00 | 14.5 | 4.53 | 2 | 14.08 | 7.08 | 1.41 | 13.96 | 2029 | |
| TAAPH172K1300S0 | 13 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TAAPH172K1307S0 | 13 7/16 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TAAPH172K1308S0 | 13 1/2 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TAAPH176K360S0 | 360 mm | 23176 | 368.3 | 729 | 490 | 996.9 | 1035.0 | 279.4 | 1168.4 | 368.3 | 115.0 | M50 | 361 | 183 | 37 | 361 | 965 | | | | | | | | | | | | | | | | |
| TAAPH176K1315S0 | 13 15/16 in. | | | | | | | | | | | | | | | | | 14.50 | 28.71 | 19.29 | 39.25 | 40.75 | 11.00 | 46.00 | 14.5 | 4.53 | 2 | 14.2 | 7.21 | 1.5 | 14.20 | 2128 | |
| TAAPH176K1400S0 | 14 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TAAPH180K380S0 | 380 mm | 23180 | 393.7 | 789 | 520 | 1060.4 | 1104.9 | 311.1 | 1238.2 | 406.4 | 119.9 | M60 | 382 | 188 | 39 | 371 | 1205 | | | | | | | | | | | | | | | | |
| TAAPH180K1415S0 | 14 15/16 in. | | | | | | | | | | | | | | | | | 15.50 | 31.0 | 20.47 | 41.75 | 43.50 | 12.25 | 48.75 | 16.00 | 4.72 | 2 1/4 | 15.0 | 7.40 | 1.6 | 14.59 | 2657 | |
| TAAPH180K1500S0 | 15 in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

⁽¹⁾Insert size 23132K and above come standard with double nut tapered adapter

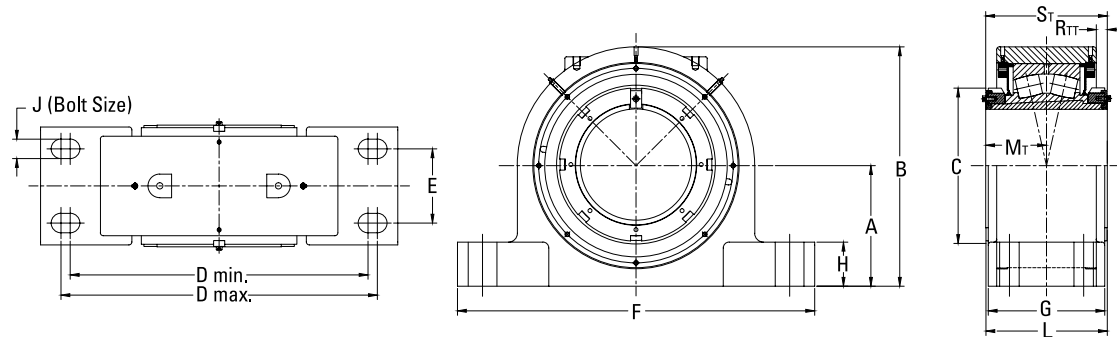
TAAPG SN-STYLE FOUR-BOLT PILLOW BLOCKS



| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | E | F | G | H | J | L | M | M _T | R _T | S | S _T | Wt. |
|---------------------------------|-------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------|----------------|-----------|----------------|-----------|
| | | | 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. | mm in. | mm in. | mm in. | mm in. |
| TAAPG11K115S | 1 1/16 in. | 22211 | 69.9 | 134.9 | 74.9 | 182.4 | 217.4 | 39.9 | 251.0 | 68.6 | 31.8 | 16 | 69.9 | 35.6 | 39.1 | 7.1 | 58.9 | 76.33 | 8.6 |
| TAAPG11K200S | 2 in. | | 2.75 | 5.31 | 2.95 | 7.18 | 8.56 | 1.57 | 9.88 | 2.70 | 1.25 | 5/8 | 2.75 | 1.40 | 1.54 | 0.28 | 2.32 | 3.01 | 19 |
| TAAPG11K050S | 50 mm | | | | | | | | | | | | | | | | | | |
| TAAPG12K055S | 55 mm | 22212 | 70.0 | 140.5 | 79.8 | 177.8 | 219.2 | 35.1 | 254.0 | 69.9 | 31.8 | 16 | 72.6 | 37.6 | 41.1 | 7.0 | 62.0 | 78.33 | 9.9 |
| TAAPG13K203S | 2 3/16 in. | 22213 | 80.0 | 154.9 | 85.1 | 182.4 | 217.4 | 48.0 | 261.9 | 82.6 | 35.1 | 16 | 81.0 | 39.6 | 43.7 | 5.1 | 65.0 | 82.83 | 11.3 |
| TAAPG13K204S | 2 1/4 in. | | 3.15 | 6.10 | 3.35 | 7.18 | 8.56 | 1.89 | 10.31 | 3.25 | 1.38 | 5/8 | 3.19 | 1.56 | 1.72 | 0.20 | 2.56 | 3.26 | 25 |
| TAAPG13K060S | 60 mm | | | | | | | | | | | | | | | | | | |
| TAAPG15K207S | 2 7/16 in. | 22215 | 80.0 | 162.1 | 98.0 | 201.7 | 246.1 | 39.6 | 276.4 | 79.5 | 30.2 | 16 | 83.8 | 43.9 | 48.7 | 8.3 | 72.9 | 92.33 | 13.2 |
| TAAPG15K208S | 2 1/2 in. | | 3.15 | 6.38 | 3.86 | 7.94 | 9.69 | 1.56 | 10.88 | 3.13 | 1.19 | 5/8 | 3.30 | 1.73 | 1.92 | 0.33 | 2.87 | 3.64 | 29 |
| TAAPG15K065S | 65 mm | | | | | | | | | | | | | | | | | | |
| TAAPG16K211S | 2 11/16 in. | 22216 | 95.0 | 180.3 | 104.6 | 235.0 | 266.7 | 50.0 | 315.0 | 89.9 | 31.8 | 16 | 92.5 | 47.5 | 51.7 | 11.3 | 78.0 | 99.33 | 14.9 |
| TAAPG16K212S | 2 3/4 in. | | 3.74 | 7.10 | 4.12 | 9.25 | 10.50 | 1.97 | 12.40 | 3.54 | 1.25 | 5/8 | 3.64 | 1.87 | 2.04 | 0.45 | 3.07 | 3.91 | 33 |
| TAAPG16K070S | 70 mm | | | | | | | | | | | | | | | | | | |
| TAAPG17K215S | 2 15/16 in. | 22217 | 95.0 | 182.9 | 110.0 | 239.8 | 287.3 | 52.3 | 320.8 | 92.2 | 31.8 | 20 | 96.0 | 49.8 | 50.2 | 16.0 | 82.0 | 104.33 | 16.8 |
| TAAPG17K300S | 3 in. | | 3.74 | 7.20 | 4.33 | 9.44 | 11.31 | 2.06 | 12.63 | 3.63 | 1.25 | 3/4 | 3.78 | 1.96 | 1.98 | 0.63 | 3.23 | 4.12 | 37 |
| TAAPG17K075S | 75 mm | | | | | | | | | | | | | | | | | | |
| TAAPG18K080S | 80 mm | 22218 | 100.0 | 195.3 | 119.6 | 282.7 | 298.5 | 50.0 | 344.9 | 100.1 | 39.6 | 16 | 102.1 | 52.1 | 56.6 | 12.3 | 86.1 | 108.83 | 24.5 |
| TAAPG18K303S | 3 3/16 in. | | 3.937 | 7.69 | 4.71 | 11.13 | 11.75 | 1.97 | 13.58 | 3.94 | 1.56 | 5/8 | 4.02 | 2.05 | 2.23 | 0.49 | 3.39 | 4.28 | 54 |
| TAAPG18K304S | 3 1/4 in. | | | | | | | | | | | | | | | | | | |
| TAAPG19K085S | 85 mm | 22219 | 112.0 | 212.3 | 124.7 | 282.7 | 298.5 | 50.0 | 344.9 | 100.1 | 39.6 | 16 | 104.6 | 54.6 | 59.2 | 13.2 | 89.9 | 113.83 | 25.4 |
| TAAPG20K307S | 3 7/16 in. | 22220 | 112.0 | 214.6 | 130.0 | 276.4 | 339.9 | 60.5 | 381.0 | 109.5 | 39.6 | 20 | 113.3 | 58.4 | 63.6 | 10.6 | 97.0 | 121.83 | 31.8 |
| TAAPG20K308S | 3 1/2 in. | | 4.409 | 8.45 | 5.12 | 10.88 | 13.38 | 2.38 | 15.00 | 4.31 | 1.56 | 3/4 | 4.46 | 2.30 | 2.51 | 0.42 | 3.82 | 4.80 | 70 |
| TAAPG20K090S | 90 mm | | | | | | | | | | | | | | | | | | |
| TAAPG22K315S | 3 15/16 in. | 22222 | 125.0 | 238.3 | 145.0 | 301.8 | 368.3 | 69.9 | 406.4 | 120.7 | 44.5 | 20 | 123.4 | 63.0 | 65.8 | 14.1 | 104.9 | 130.7 | 39.5 |
| TAAPG22K400S | 4 in. | | 4.921 | 9.38 | 5.71 | 11.88 | 14.50 | 2.75 | 16.00 | 4.75 | 1.75 | 3/4 | 4.86 | 2.48 | 2.59 | 0.56 | 4.13 | 5.15 | 87 |
| TAAPG22K100S | 100 mm | | | | | | | | | | | | | | | | | | |
| TAAPG24K403S | 4 3/16 in. | 22224 | 140.0 | 262.9 | 154.4 | 330.2 | 355.6 | 70.1 | 410.0 | 120.7 | 50.8 | 16 | 127.5 | 67.1 | 71.6 | 16.8 | 112.0 | 139.15 | 49.9 |
| TAAPG24K404S | 4 1/4 in. | | 5.512 | 10.35 | 6.08 | 13.00 | 14.00 | 2.76 | 16.14 | 4.75 | 2.00 | 5/8 | 5.02 | 2.64 | 2.82 | 0.66 | 4.41 | 5.48 | 110 |
| TAAPG24K110S | 110 mm | | | | | | | | | | | | | | | | | | |
| TAAPG26K407S | 4 7/16 in. | 22226 | 150.0 | 281.7 | 165.1 | 367.28 | 400.1 | 81.0 | 444.5 | 128.0 | 49.3 | 24 | 135.9 | 71.88 | 76.6 | 20.4 | 120.9 | 149.65 | 61.7 |
| TAAPG26K408S | 4 1/2 in. | | 5.906 | 11.09 | 6.50 | 14.46 | 15.75 | 3.19 | 17.50 | 5.04 | 1.94 | 1 | 5.35 | 2.83 | 3.01 | 0.80 | 4.76 | 5.89 | 136 |
| TAAPG26K115S | 115 mm | | | | | | | | | | | | | | | | | | |
| TAAPG28K415S | 4 15/16 in. | 22228 | 150.0 | 288.4 | 180.1 | 384.3 | 447.8 | 80.0 | 500.4 | 128.0 | 49.3 | 24 | 141.5 | 77.5 | 85.2 | 18.3 | 131.1 | 161.15 | 61.8 |
| TAAPG28K500S | 5 in. | | 5.906 | 11.36 | 7.09 | 15.13 | 17.63 | 3.15 | 19.70 | 5.04 | 1.94 | 1 | 5.57 | 3.05 | 3.35 | 0.72 | 5.16 | 6.34 | 136 |
| TAAPG28K125S | 125 mm | | | | | | | | | | | | | | | | | | |

⁽¹⁾Double-nut (TAA/DAA) part number shown. Single-nut (TA/DV) version available upon request.

TAASN 3000 SERIES FOUR-BOLT PILLOW BLOCK

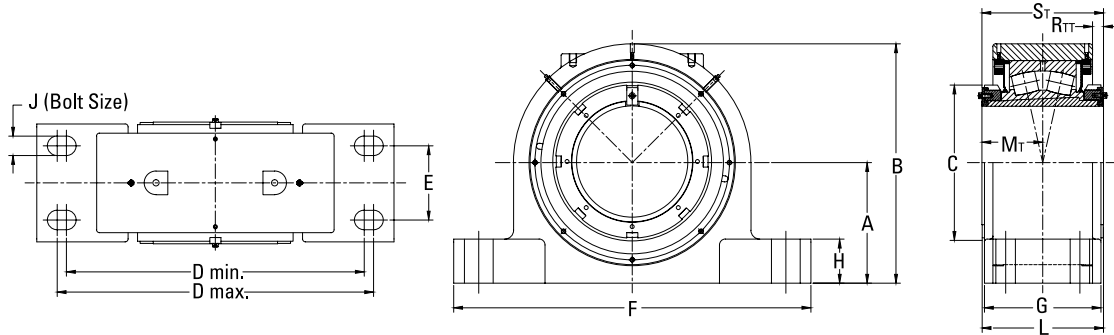


| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | E | F | G | H | J | L | M _T | N | R _{TT} | S _T | Wt. |
|---------------------------------|---------------|-------------|--------------------|---------------------|---------------------|---------------------|---------------------|--------------------|---------------------|--------------------|-------------------|--------------------|---------------------|--------------------|-------------------|-------------------|---------------------|-------------------|
| | | | 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. | mm in. | mm in. | mm in. |
| TAA30SN36K160SO | 160 mm | 23136 | 170 6.69 | 343 13.50 | 210 8.27 | 410 16.14 | 450 17.72 | 100 3.94 | 510 20.08 | 180 7.09 | 60 2.36 | 24 1 | 189 7.44 | 99 3.90 | 48 1.89 | 14 0.56 | 197 7.74 | 112 248 |
| TAA30SN36K605SO | 6 3/8 in. | | | | | | | | | | | | | | | | | |
| TAA30SN36K606SO | 6 3/8 in. | | | | | | | | | | | | | | | | | |
| TAA30SN36K607SO | 6 7/8 in. | | | | | | | | | | | | | | | | | |
| TAA30SN36K608SO | 6 1/2 in. | | | | | | | | | | | | | | | | | |
| TAA30SN38K170SO | 170 mm | 23138 | 180 7.09 | 365 14.37 | 220 8.66 | 430 16.93 | 470 18.50 | 110 4.33 | 530 20.87 | 196 7.72 | 65 2.56 | 24 1 | 203 8.21 | 105 4.13 | 48 1.89 | 15 0.60 | 208 8.17 | 131 289 |
| TAA30SN38K613SO | 6 13/16 in. | | | | | | | | | | | | | | | | | |
| TAA30SN38K614SO | 6 7/8 in. | | | | | | | | | | | | | | | | | |
| TAA30SN38K615SO | 6 15/16 in. | | | | | | | | | | | | | | | | | |
| TAA30SN38K700SO | 7 in. | | | | | | | | | | | | | | | | | |
| TAA30SN40K180SO | 180 mm | 23140 | 190 7.48 | 391 15.39 | 240 9.45 | 460 18.11 | 500 19.69 | 120 4.72 | 560 22.05 | 206 8.13 | 60 2.36 | 24 1 | 213 8.38 | 110 4.32 | 48 1.89 | 17 0.66 | 218 8.57 | 153 339 |
| TAA30SN40K702SO | 7 1/8 in. | | | | | | | | | | | | | | | | | |
| TAA30SN40K703SO | 7 3/8 in. | | | | | | | | | | | | | | | | | |
| TAA30SN40K704SO | 7 1/4 in. | | | | | | | | | | | | | | | | | |
| TAA30SN44K200SO | 200 mm | | | | | | | | | | | | | | | | | |
| TAA30SN44K713SO | 7 13/16 in. | 23144 | 210 8.27 | 446 17.56 | 280 11.02 | 490 19.29 | 530 20.87 | 130 5.12 | 610 24.02 | 216 8.51 | 75 2.96 | 30 1 1/4 | 277 8.94 | 119 4.68 | 55 2.17 | 21 0.87 | 235 9.24 | 199 439 |
| TAA30SN44K714SO | 7 7/8 in. | | | | | | | | | | | | | | | | | |
| TAA30SN44K715SO | 7 15/16 in. | | | | | | | | | | | | | | | | | |
| TAA30SN44K800SO | 8 in. | | | | | | | | | | | | | | | | | |
| TAA30SN48K220SO | 220 mm | | | | | | | | | | | | | | | | | |
| TAA30SN48K807SO | 8 7/16 in. | 23148 | 220 8.27 | 454 17.87 | 300 11.81 | 520 20.47 | 560 22.05 | 140 5.51 | 640 25.20 | 240 9.45 | 90 3.54 | 30 1 1/4 | 238 9.38 | 125 4.93 | 55 2.17 | 22 0.87 | 247 9.71 | 230 506 |
| TAA30SN48K808SO | 8 1/2 in. | | | | | | | | | | | | | | | | | |
| TAA30SN48K815SO | 8 15/16 in. | | | | | | | | | | | | | | | | | |
| TAA30SN48K900SO | 9 in. | | | | | | | | | | | | | | | | | |
| TAA30SN52K240SO | 240 mm | | | | | | | | | | | | | | | | | |
| TAA30SN52K907SO | 9 7/16 in. | 23152 | 240 9.45 | 496 19.53 | 330 12.99 | 580 22.83 | 620 24.41 | 150 5.91 | 700 27.56 | 254 10 | 75 2.96 | 30 1 1/4 | 257 10.10 | 91 5.45 | 55 2.17 | 18 0.72 | 275 10.82 | 289 637 |
| TAA30SN52K908SO | 9 1/2 in. | | | | | | | | | | | | | | | | | |

⁽¹⁾SN 3000 Series comes standard with double nut tapered adapter

Continued on next page.

TAASN 3000 SERIES FOUR-BOLT PILLOW BLOCK – continued

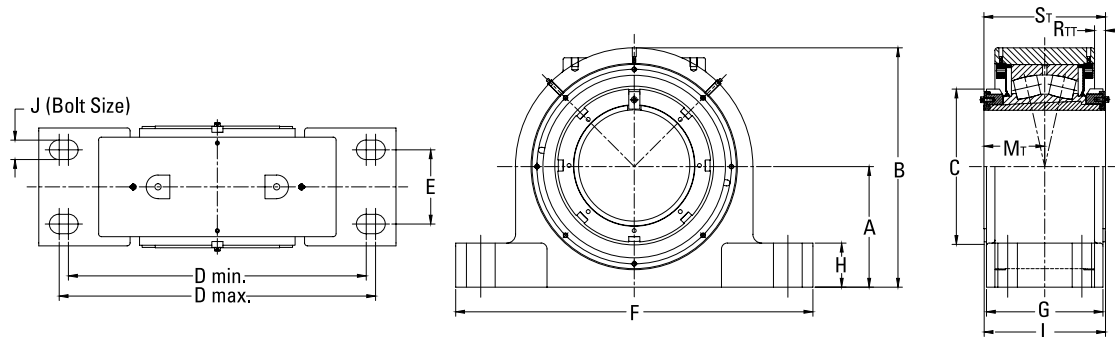


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| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | E | F | G | H | J | L | M _T | N | R _T | S _T | Wt. | |
|---------------------------------|---------------|-------------|--------------|--------------|--------------|--------------|--------------|-------------|---------------|--------------|-------------|-----------|--------------|----------------|------------|----------------|----------------|-------------|------------|
| | 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. | mm in. | mm in. | mm in. | mm in. | kg lbs. |
| TAA30SN56K260SO | 260 mm | 23156 | 260 10.24 | 531 20.91 | 350 13.78 | 642 25.28 | 682 26.85 | 160 6.30 | 770 30.31 | 236 9.30 | 82 3.22 | 36 1 ½ | 257 10.11 | 139 5.46 | 62 2.44 | 20 0.80 | 275 10.83 | 358 790 | |
| TAA30SN56K915SO | 9 15/16 in. | | | | | | | | | | | | | | | | | | |
| TAA30SN56K1000SO | 10 in. | | | | | | | | | | | | | | | | | | |
| TAA30SN56K1007SO | 10 7/16 in. | | | | | | | | | | | | | | | | | | |
| TAA30SN56K1008SO | 10 ½ in. | | | | | | | | | | | | | | | | | | |
| TAA30SN60K280SO | 280 mm | 23160 | 280 11.02 | 571 22.48 | 380 14.96 | 650 25.59 | 690 27.17 | 160 6.30 | 790 31.10 | 266 10.48 | 105 4.13 | 36 1 ½ | 279 10.97 | 146 5.73 | 62 2.44 | 18 0.71 | 287 11.29 | 442 975 | |
| TAA30SN60K1015SO | 10 15/16 in. | | | | | | | | | | | | | | | | | | |
| TAA30SN60K1100SO | 11 in. | | | | | | | | | | | | | | | | | | |
| TAA30SN64K300SO | 300 mm | 23164 | 300 11.81 | 611 24.06 | 400 15.75 | 690 27.17 | 730 28.74 | 190 7.48 | 830 32.68 | 276 10.87 | 90 3.54 | 36 1 ½ | 294 11.57 | 156 6.13 | 62 2.44 | 20 0.78 | 307 12.07 | 524 1156 | |
| TAA30SN64K1107SO | 11 7/16 in. | | | | | | | | | | | | | | | | | | |
| TAA30SN64K1108SO | 11 ½ in. | | | | | | | | | | | | | | | | | | |
| TAA30SN64K1115SO | 11 15/16 in. | | | | | | | | | | | | | | | | | | |
| TAA30SN64K1200SO | 12 in. | | | | | | | | | | | | | | | | | | |
| TAA30SN68K320SO | 320 mm | 23168 | 320 12.60 | 655 25.79 | 440 17.32 | 730 28.74 | 770 30.31 | 200 7.87 | 880 34.65 | 296 11.66 | 115 4.53 | 36 1 ½ | 324 12.75 | 176 6.92 | 62 2.44 | 33 1.29 | 347 13.65 | 634 1398 | |
| TAA30SN68K1207SO | 12 7/16 in. | | | | | | | | | | | | | | | | | | |
| TAA30SN68K1208SO | 12 ½ in. | | | | | | | | | | | | | | | | | | |
| TAA30SN72K340SO | 340 mm | 23172 | 320 12.60 | 665 26.18 | 460 18.11 | 730 28.74 | 770 30.31 | 200 7.87 | 950 37.40 | 296 11.66 | 115 4.53 | 36 1 ½ | 328 12.91 | 180 7.08 | 62 2.44 | 36 1.40 | 355 13.96 | 760 1676 | |
| TAA30SN72K1215SO | 12 15/16 in. | | | | | | | | | | | | | | | | | | |
| TAA30SN72K1300SO | 13 in. | | | | | | | | | | | | | | | | | | |
| TAA30SN72K1307SO | 13 7/16 in. | | | | | | | | | | | | | | | | | | |
| TAA30SN72K1308SO | 13 ½ in. | | | | | | | | | | | | | | | | | | |
| TAA30SN76K360SO | 360 mm | 23176 | 340 13.39 | 695 27.36 | 490 19.29 | 790 31.10 | 830 32.68 | 220 8.66 | 1000 39.37 | 296 11.66 | 95 3.74 | 36 1 ½ | 331 13.04 | 183 7.21 | 62 2.44 | 37 1.47 | 361 14.20 | 838 1848 | |
| TAA30SN76K1315SO | 13 15/16 in. | | | | | | | | | | | | | | | | | | |
| TAA30SN76K1400SO | 14 in. | | | | | | | | | | | | | | | | | | |
| TAA30SN80K380SO | 380 mm | 23180 | 350 13.78 | 745 29.33 | 520 20.47 | 820 32.28 | 860 33.86 | 220 8.66 | 1040 40.94 | 316 12.45 | 90 3.54 | 36 1 ½ | 346 13.63 | 188 7.40 | 62 2.44 | 39 1.55 | 371 14.59 | 921 2031 | |
| TAA30SN80K1415SO | 14 15/16 in. | | | | | | | | | | | | | | | | | | |
| TAA30SN80K1500SO | 15 in. | | | | | | | | | | | | | | | | | | |

⁽¹⁾SN 3000 Series comes standard with double nut tapered adapter

TAASN 3100 SERIES FOUR-BOLT PILLOW BLOCK

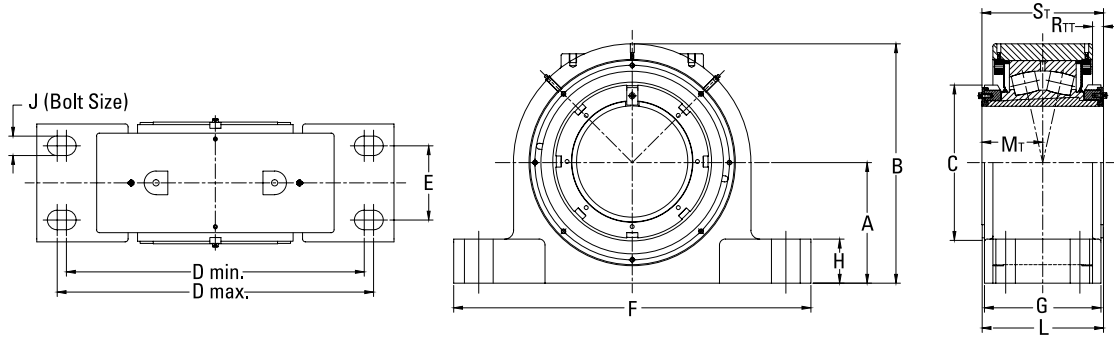


| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | E | F | G | H | J (Bolt Size) | L | M _T | N | R _T | S _T | Wt. |
|---------------------------------|---------------|-------------|--------------------|---------------------|---------------------|---------------------|---------------------|--------------------|---------------------|----------------------|-------------------|--------------------|--------------------|--------------------|-------------------|-------------------|--------------------|-------------------|
| | | | 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. | mm in. | mm in. | mm in. |
| TAA31SN34K150S0 | 150 mm | 23134 | 170 6.69 | 333 13.11 | 220 8.66 | 410 16.14 | 450 17.72 | 100 3.94 | 510 20.08 | 171.5 6.75 | 65 2.56 | 24 1 | 180 7.08 | 95 3.73 | 48 1.89 | 14 0.53 | 188 7.38 | 104 230 |
| TAA31SN34K513S0 | 5 1/8 in. | | | | | | | | | | | | | | | | | |
| TAA31SN34K514S0 | 5 7/8 in. | | | | | | | | | | | | | | | | | |
| TAA31SN34K515S0 | 5 9/16 in. | | | | | | | | | | | | | | | | | |
| TAA31SN34K600S0 | 6 in. | | | | | | | | | | | | | | | | | |
| TAA31SN36K160S0 | 160 mm | 23136 | 180 7.09 | 353 13.90 | 230 9.06 | 430 16.93 | 470 18.50 | 110 4.33 | 530 20.87 | 180 7.09 | 70 2.76 | 24 1 | 189 7.45 | 99 3.90 | 48 1.89 | 14 0.57 | 197 7.74 | 122 268 |
| TAA31SN36K605S0 | 6 3/8 in. | | | | | | | | | | | | | | | | | |
| TAA31SN36K606S0 | 6 3/16 in. | | | | | | | | | | | | | | | | | |
| TAA31SN36K607S0 | 6 7/16 in. | | | | | | | | | | | | | | | | | |
| TAA31SN36K608S0 | 6 1/2 in. | | | | | | | | | | | | | | | | | |
| TAA31SN38K170S0 | 170 mm | 23138 | 190 7.48 | 375 14.76 | 240 9.45 | 460 18.11 | 500 19.69 | 120 4.72 | 560 22.05 | 196.2 7.72 | 75 2.95 | 24 1 | 200 7.87 | 105 4.13 | 48 1.89 | 16 0.61 | 208 8.17 | 144 317 |
| TAA31SN38K613S0 | 6 9/16 in. | | | | | | | | | | | | | | | | | |
| TAA31SN38K614S0 | 6 7/8 in. | | | | | | | | | | | | | | | | | |
| TAA31SN38K615S0 | 6 15/16 in. | | | | | | | | | | | | | | | | | |
| TAA31SN38K700S0 | 7 in. | | | | | | | | | | | | | | | | | |
| TAA31SN40K180S0 | 180 mm | 23140 | 210 8.27 | 411 16.18 | 250 9.84 | 490 19.29 | 530 20.87 | 130 5.12 | 610 24.02 | 206 8.12 | 80 3.15 | 30 1 1/4 | 215 8.46 | 110 4.32 | 55 2.17 | 16 0.64 | 218 8.57 | 182 401 |
| TAA31SN40K702S0 | 7 1/8 in. | | | | | | | | | | | | | | | | | |
| TAA31SN40K703S0 | 7 3/8 in. | | | | | | | | | | | | | | | | | |
| TAA31SN40K704S0 | 7 1/4 in. | | | | | | | | | | | | | | | | | |
| TAA31SN44K200S0 | 200 mm | 23144 | 220 8.27 | 456 17.95 | 280 11.02 | 520 20.47 | 560 22.05 | 140 5.51 | 640 25.20 | 216.2 8.51 | 85 3.35 | 30 1 1/4 | 231 9.11 | 119 4.68 | 55 2.17 | 21 0.81 | 235 9.24 | 212 468 |
| TAA31SN44K713S0 | 7 9/16 in. | | | | | | | | | | | | | | | | | |
| TAA31SN44K714S0 | 7 7/8 in. | | | | | | | | | | | | | | | | | |
| TAA31SN44K715S0 | 7 15/16 in. | | | | | | | | | | | | | | | | | |
| TAA31SN44K800S0 | 8 in. | | | | | | | | | | | | | | | | | |
| TAA31SN48K220S0 | 220 mm | 23148 | 240 9.45 | 474 18.66 | 300 11.81 | 580 22.83 | 620 24.41 | 150 5.91 | 700 27.56 | 240 9.45 | 90 3.54 | 30 1 1/4 | 245 9.66 | 125 4.93 | 55 2.17 | 22 0.88 | 247 9.71 | 265 584 |
| TAA31SN48K807S0 | 8 7/16 in. | | | | | | | | | | | | | | | | | |
| TAA31SN48K808S0 | 8 1/2 in. | | | | | | | | | | | | | | | | | |
| TAA31SN48K815S0 | 8 9/16 in. | | | | | | | | | | | | | | | | | |
| TAA31SN48K900S0 | 9 in. | | | | | | | | | | | | | | | | | |

⁽¹⁾SN 3100 Series comes standard with double nut tapered adapter

Continued on next page.

TAASN 3100 SERIES FOUR-BOLT PILLOW BLOCK – continued

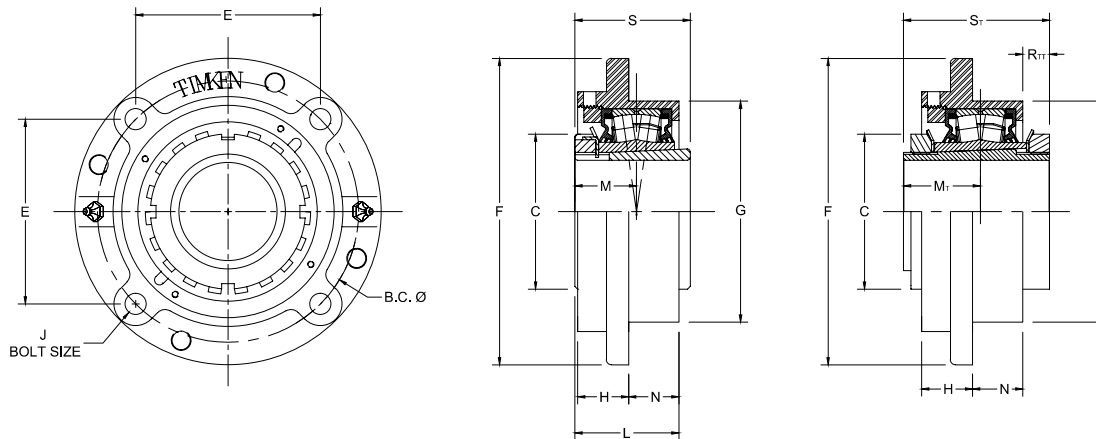


Continued from previous page.

| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D min. | D max. | E | F | G | H | J (Bolt Size) | L | M _T | N | R _{TT} | S _T | Wt. | |
|---------------------------------|--------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------------|-----------|----------------|-----------|-----------------|----------------|-----------|------------|
| | 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. | mm in. | mm in. | mm in. | mm in. | kg lbs. |
| TAA31SN52K240S0 | 240 mm | 23152 | 260 | 530.6 | 330 | 642 | 682 | 160 | 770 | 236 | 95 | 36 | 265 | 91 | 62 | 29 | 275 | 327 | |
| TAA31SN52K907S0 | 9 7/16 in. | | 10.24 | 20.89 | 12.99 | 25.28 | 26.85 | 6.30 | 30.31 | 9.30 | 3.74 | 1 1/2 | 10.45 | 5.45 | 2.44 | 1.15 | 10.82 | 721 | |
| TAA31SN52K908S0 | 9 1/2 in. | | | | | | | | | | | | | | | | | | |
| TAA31SN56K260S0 | 260 mm | 23156 | 280 | 551 | 350 | 650 | 690 | 160 | 790 | 236 | 100 | 36 | 266 | 139 | 62 | 20 | 275 | 403 | |
| TAA31SN56K915S0 | 9 15/16 in. | | 11.02 | 21.69 | 13.78 | 25.59 | 27.17 | 6.30 | 31.10 | 9.30 | 3.94 | 1 1/2 | 10.46 | 5.46 | 2.44 | 0.80 | 10.83 | 888 | |
| TAA31SN56K1000S0 | 10 in. | | | | | | | | | | | | | | | | | | |
| TAA31SN56K1007S0 | 10 7/16 in. | | | | | | | | | | | | | | | | | | |
| TAA31SN56K1008S0 | 10 1/2 in. | | | | | | | | | | | | | | | | | | |
| TAA31SN60K280S0 | 280 mm | 23160 | 300 | 591 | 380 | 690 | 730 | 190 | 830 | 266 | 125 | 36 | 296 | 146 | 62 | 18 | 287 | 487 | |
| TAA31SN60K1015S0 | 10 15/16 in. | | 11.81 | 23.27 | 14.96 | 27.17 | 28.74 | 7.48 | 32.68 | 10.48 | 4.92 | 1 1/2 | 11.63 | 5.73 | 2.44 | 0.71 | 11.29 | 1074 | |
| TAA31SN60K1100S0 | 11 in. | | | | | | | | | | | | | | | | | | |
| TAA31SN64K300S0 | 300 mm | 23164 | 320 | 631 | 400 | 730 | 770 | 200 | 880 | 276 | 110 | 36 | 311 | 156 | 62 | 20 | 307 | 573 | |
| TAA31SN64K1107S0 | 11 7/16 in. | | 12.60 | 24.84 | 15.75 | 28.74 | 30.31 | 7.87 | 34.65 | 10.82 | 4.33 | 1 1/2 | 12.23 | 6.13 | 2.44 | 0.78 | 12.07 | 1263 | |
| TAA31SN64K1108S0 | 11 1/2 in. | | | | | | | | | | | | | | | | | | |
| TAA31SN64K1115S0 | 11 15/16 in. | | | | | | | | | | | | | | | | | | |
| TAA31SN64K1200S0 | 12 in. | | | | | | | | | | | | | | | | | | |
| TAA31SN68K320S0 | 320 mm | 23168 | 340 | 675 | 440 | 790 | 830 | 220 | 950 | 296 | 115 | 36 | 346 | 176 | 62 | 33 | 347 | 713 | |
| TAA31SN68K1207S0 | 12 7/16 in. | | 13.39 | 26.57 | 17.32 | 31.10 | 32.68 | 8.66 | 37.40 | 11.66 | 4.53 | 1 1/2 | 13.62 | 6.92 | 2.44 | 1.29 | 13.65 | 1572 | |
| TAA31SN68K1208S0 | 12 1/2 in. | | | | | | | | | | | | | | | | | | |
| TAA31SN72K340S0 | 340 mm | 23172 | 350 | 695 | 460 | 820 | 860 | 220 | 1000 | 296 | 115 | 36 | 350 | 180 | 62 | 36 | 355 | 787 | |
| TAA31SN72K1215S0 | 12 15/16 in. | | 13.78 | 27.36 | 18.11 | 32.28 | 33.86 | 8.66 | 39.37 | 11.66 | 4.53 | 1 1/2 | 13.77 | 7.08 | 2.44 | 1.41 | 13.96 | 1736 | |
| TAA31SN72K1300S0 | 13 in. | | | | | | | | | | | | | | | | | | |
| TAA31SN72K1307S0 | 13 7/16 in. | | | | | | | | | | | | | | | | | | |
| TAA31SN72K1308S0 | 13 1/2 in. | | | | | | | | | | | | | | | | | | |
| TAA31SN76K360S0 | 360 mm | 23176 | 360 | 715 | 490 | 850 | 890 | 220 | 1040 | 296 | 115 | 36 | 353 | 183 | 62 | 37 | 361 | 862 | |
| TAA31SN76K1315S0 | 13 15/16 in. | | 14.17 | 28.15 | 19.29 | 33.46 | 35.04 | 8.66 | 40.94 | 11.66 | 4.53 | 1 1/2 | 13.90 | 7.21 | 2.44 | 1.47 | 14.20 | 1901 | |
| TAA31SN76K1400S0 | 14 in. | | | | | | | | | | | | | | | | | | |
| TAA31SN80K380S0 | 380 mm | 23180 | 380 | 775 | 520 | 930 | 970 | 240 | 1120 | 316 | 120 | 42 | 373 | 188 | 68 | 39 | 371 | 1088 | |
| TAA31SN80K1415S0 | 14 15/16 in. | | 14.96 | 30.51 | 20.47 | 36.61 | 38.19 | 9.45 | 44.09 | 12.45 | 4.72 | 1 5/8 | 14.69 | 7.40 | 2.68 | 1.55 | 14.59 | 2398 | |
| TAA31SN80K1500S0 | 15 in. | | | | | | | | | | | | | | | | | | |

⁽¹⁾SN 3100 Series comes standard with double nut tapered adapter

DAAC PILOTED FLANGE CARTRIDGES



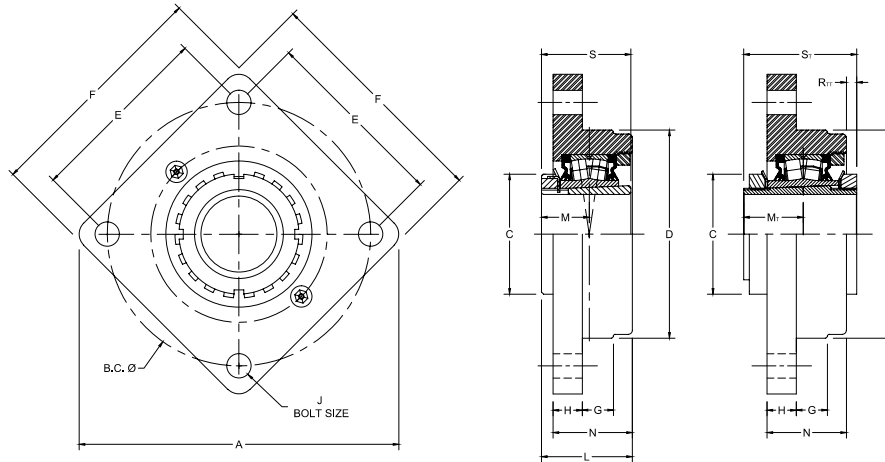
| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | B.C. | C | E | F | G ⁽²⁾ | H | I | J | L | M | M _T | N | R | R _T | S | S _T | Wt. |
|---------------------------------|-------------|-------------|-------------------------------|---------------|------------------------------|----------------|------------------|--------------|---------------|--------------------------|---------------|--------------|----------------|--------------|---------------|----------------|---------------|----------------|------------|
| | 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. | mm in. | mm in. | mm in. | mm in. | kg lbs. |
| DAAC09K107S | 1 7/16 in. | | | | | | | | | | | | | | | | | | |
| DAAC09K108S | 1 1/2 in. | 22209 | 111.3 4.38 | 65.0 2.56 | 78.5 3.09 | 133.4 5.25 | 92.1 3.625 | 26.7 1.05 | 48.3 1.90 | 10 7/16 | 55.4 2.18 | 30.7 1.21 | 34.2 1.34 | 23.9 0.94 | 5.1 0.20 | 6.4 0.25 | 50.3 1.98 | 65.33 2.57 | 4.1 9 |
| DAAC09K040S | 40 mm | | | | | | | | | | | | | | | | | | |
| DAAC10K111S | 1 1/16 in. | | | | | | | | | | | | | | | | | | |
| DAAC10K112S | 1 3/4 in. | 22210 | 130.3 5.13 | 70.1 2.76 | 91.9 3.62 | 155.7 6.13 | 107.95 4.250 | 26.7 1.05 | 58.9 2.32 | 10 7/16 | 60.1 2.37 | 33.5 1.32 | 37.6 1.48 | 25.4 1.00 | 5.1 0.20 | 7.1 0.28 | 55.1 2.17 | 71.33 2.81 | 4.5 10 |
| DAAC10K045S | 45 mm | | | | | | | | | | | | | | | | | | |
| DAAC11K115S | 1 15/16 in. | | | | | | | | | | | | | | | | | | |
| DAAC11K200S | 2 in. | 22211 | 136.7 5.38 | 74.9 2.95 | 96.5 3.80 | 162.1 6.38 | 114.3 4.500 | 31.5 1.24 | 62.2 2.45 | 10 7/16 | 63.2 2.49 | 35.6 1.40 | 39.1 1.54 | 25.4 1.00 | 4.1 0.16 | 9.6 0.38 | 58.9 2.32 | 76.33 3.01 | 5.0 11 |
| DAAC11K050S | 50 mm | | | | | | | | | | | | | | | | | | |
| DAAC13K203S | 2 3/16 in. | | | | | | | | | | | | | | | | | | |
| DAAC13K204S | 2 1/4 in. | 22213 | 152.4 6.00 | 82.6 3.35 | 107.7 4.24 | 181.1 7.13 | 127.0 5.000 | 37.3 1.47 | 84.8 3.34 | 12 1/2 | 65.5 2.58 | 39.6 1.56 | 43.7 1.72 | 25.4 1.00 | -2.8 -0.11 | 13.2 0.52 | 65.0 2.56 | 82.83 3.26 | 7.3 16 |
| DAAC13K060S | 60 mm | | | | | | | | | | | | | | | | | | |
| DAAC15K207S | 2 7/16 in. | | | | | | | | | | | | | | | | | | |
| DAAC15K208S | 2 1/2 in. | 22215 | 165.1 6.50 | 98.0 3.86 | 116.8 4.60 | 193.8 7.63 | 139.7 5.500 | 32.3 1.27 | 79.0 3.11 | 12 1/2 | 69.9 2.75 | 43.9 1.73 | 48.7 1.92 | 31.8 1.25 | 3.6 0.14 | 17.6 0.69 | 72.9 2.87 | 92.33 3.64 | 8.2 18 |
| DAAC15K065S | 65 mm | | | | | | | | | | | | | | | | | | |
| DAAC17K215S | 2 15/16 in. | | | | | | | | | | | | | | | | | | |
| DAAC17K300S | 3 in. | 22217 | 190.5 7.50 | 110.0 4.33 | 134.6 5.30 | 222.3 8.75 | 161.9 6.375 | 32.5 1.28 | 90.2 3.55 | 16 3/8 | 79.8 3.14 | 49.8 1.96 | 50.2 1.98 | 35.1 1.38 | 2.3 0.09 | 24.1 0.95 | 82.0 3.23 | 104.33 4.12 | 11.3 25 |
| DAAC17K075S | 75 mm | | | | | | | | | | | | | | | | | | |
| DAAC20K307S | 3 7/16 in. | | | | | | | | | | | | | | | | | | |
| DAAC20K308S | 3 1/2 in. | 22220 | 219.2 8.63 | 130.0 5.12 | 154.9 6.10 | 260.4 10.25 | 187.3 7.375 | 41.1 1.62 | 106.2 4.18 | 20 3/4 | 91.9 3.62 | 58.4 2.30 | 63.6 2.51 | 35.1 1.38 | 5.1 0.20 | 24.7 0.97 | 97.0 3.82 | 121.83 4.80 | 16.8 37 |
| DAAC20K090S | 90 mm | | | | | | | | | | | | | | | | | | |
| DAAC22K315S | 3 15/16 in. | | | | | | | | | | | | | | | | | | |
| DAAC22K400S | 4 in. | 22222 | 238.3 9.38 | 145.0 5.71 | 168.4 6.63 | 276.4 10.88 | 206.4 8.125 | 48.0 1.89 | 116.8 4.60 | 20 3/4 | 100.1 3.94 | 63.0 2.48 | 65.8 2.59 | 38.1 1.50 | 4.6 0.18 | 27.8 1.09 | 104.9 4.13 | 130.7 5.15 | 26.3 58 |
| DAAC22K100S | 100 mm | | | | | | | | | | | | | | | | | | |
| DAAC26K407S ⁽³⁾ | 4 7/16 in. | | | | | | | | | | | | | | | | | | |
| DAAC26K408S ⁽³⁾ | 4 1/2 in. | 22226 | 298.5 11.75 ⁽³⁾ | 165.1 6.50 | 149.4 5.88 ⁽³⁾ | 342.9 13.50 | 260.4 10.250 | 47.0 1.85 | 137.9 5.43 | 20 3/4 ⁽³⁾ | 116.8 4.60 | 71.9 2.83 | 76.6 3.01 | 48.3 1.90 | 4.1 0.16 | 28.2 1.11 | 120.9 4.76 | 149.65 5.89 | 34.5 76 |
| DAAC26K115S ⁽³⁾ | 115 mm | | | | | | | | | | | | | | | | | | |

⁽¹⁾Double-nut (TAA/DAA) part number shown. Single-nut (TA/DV) version available upon request.

⁽²⁾Pilot tolerance: +0/-0.05 mm (+0/-0.002 in.).

⁽³⁾Six-bolt housing.

TAAFC SQUARE PILOTED FLANGE CARTRIDGES

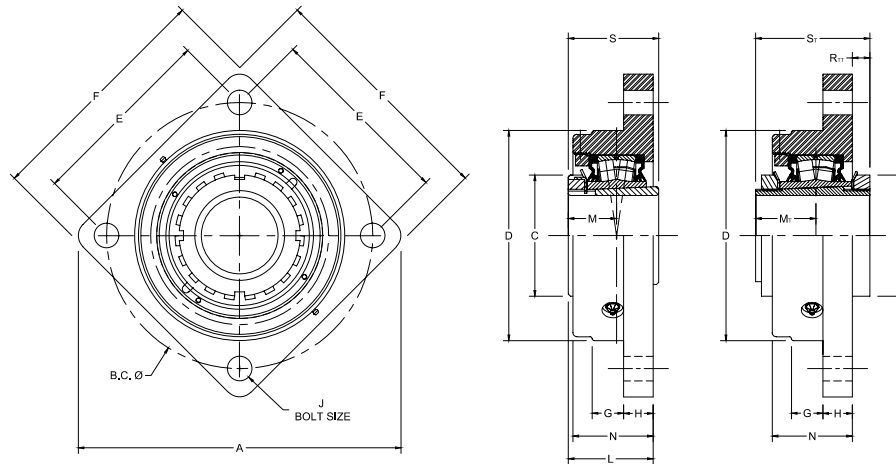


| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B.C. | C | D ⁽²⁾ | E | F | G | H | J | L | M | M _T | N | R _T | S | S _T | Wt. | |
|---------------------------------|---------------|-------------|--------------|--------------|--------------|------------------|--------------|--------------|-------------|-------------|-----------|--------------|-------------|----------------|--------------|----------------|--------------|----------------|-------------|------------|
| | 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. | mm in. | mm in. | mm in. | mm in. | mm in. | kg lbs. |
| TAAFC15K207S | 2 7/16 in. | 22215 | 255.0 | 215.1 | 98.0 | 169.9 | 152.4 | 192.0 | 25.4 | 23.9 | 16 | 79.5 | 43.9 | 48.7 | 64.8 | 8.0 | 72.9 | 92.33 | 11.3 | |
| TAAFC15K208S | 2 1/2 in. | | 10.04 | 8.47 | 3.86 | 6.690 | 6.00 | 7.56 | 1.00 | 0.94 | 5/8 | 3.13 | 1.73 | 1.92 | 2.55 | 0.32 | 2.87 | 3.64 | 25 | |
| TAAFC15K065S | 65 mm | | | | | | | | | | | | | | | | | | | |
| TAAFC17K215S | 2 15/16 in. | 22217 | 282.4 | 240.0 | 110.0 | 190.0 | 169.7 | 212.1 | 25.4 | 25.4 | 16 | 88.6 | 49.8 | 50.2 | 69.9 | 15.3 | 82.0 | 104.33 | 13.6 | |
| TAAFC17K300S | 3 in. | | 11.12 | 9.45 | 4.33 | 7.480 | 6.68 | 8.35 | 1.00 | 1.00 | 5/8 | 3.49 | 1.96 | 1.98 | 2.75 | 0.60 | 3.23 | 4.12 | 30 | |
| TAAFC17K075S | 75 mm | | | | | | | | | | | | | | | | | | | |
| TAAFC20K307S | 3 7/16 in. | 22220 | 330.2 | 279.9 | 130.0 | 230.1 | 197.9 | 247.9 | 31.8 | 28.7 | 20 | 105.7 | 58.4 | 63.6 | 94.2 | 10.9 | 97.0 | 121.83 | 18.1 | |
| TAAFC20K308S | 3 1/2 in. | | 13.00 | 11.02 | 5.12 | 9.060 | 7.79 | 9.76 | 1.25 | 1.13 | 3/4 | 4.16 | 2.30 | 2.51 | 3.71 | 0.43 | 3.82 | 4.80 | 40 | |
| TAAFC20K090S | 90 mm | | | | | | | | | | | | | | | | | | | |
| TAAFC22K315S | 3 15/16 in. | 22222 | 367.0 | 309.9 | 145.0 | 255.0 | 219.2 | 274.3 | 44.5 | 26.4 | 20 | 113.0 | 63.0 | 65.8 | 101.1 | 14.9 | 104.9 | 130.7 | 27.2 | |
| TAAFC22K400S | 4 in. | | 14.45 | 12.20 | 5.71 | 10.039 | 8.63 | 10.80 | 1.75 | 1.04 | 3/4 | 4.45 | 2.48 | 2.59 | 3.98 | 0.59 | 4.13 | 5.15 | 60 | |
| TAAFC22K100S | 100 mm | | | | | | | | | | | | | | | | | | | |
| TAAFC26K407S | 4 7/16 in. | 22226 | 411.5 | 355.1 | 165.1 | 290.0 | 251.0 | 298.5 | 41.9 | 32.0 | 24 | 130.6 | 71.9 | 76.6 | 114.3 | 14.4 | 120.9 | 149.65 | 42.6 | |
| TAAFC26K408S | 4 1/2 in. | | 16.20 | 13.98 | 6.50 | 11.417 | 9.88 | 11.75 | 1.65 | 1.26 | 7/8 | 5.14 | 2.83 | 3.01 | 4.50 | 0.56 | 4.76 | 5.89 | 94 | |
| TAAFC26K115S | 115 mm | | | | | | | | | | | | | | | | | | | |

⁽¹⁾Double-nut (TAA/DAA) part number shown. Single-nut (TA/DV) version available upon request.

⁽²⁾Pilot tolerance: +0/-0.05 mm (+0/-0.002 in.).

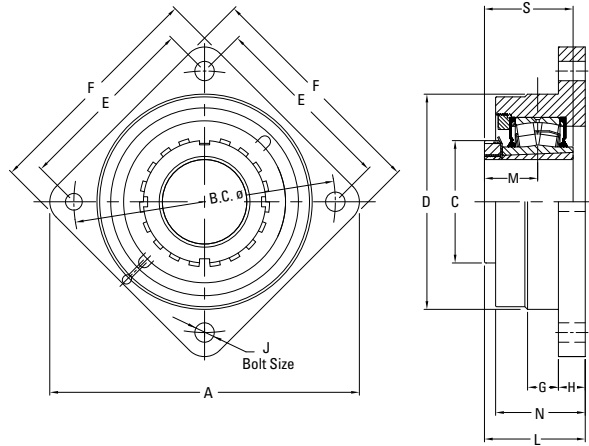
TAAFB SQUARE FLANGE BLOCKS



| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B.C. | C | D | E | F | G | H | J | L | M | M _T | N | R _{TT} | S | S _T | Wt. | |
|---------------------------------|---------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-----------|--------------|-------------|----------------|--------------|-----------------|--------------|----------------|-------------|------------|
| | 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. | mm in. | mm in. | mm in. | mm in. | mm in. | kg lbs. |
| TAFB15K207S | 2 7/16 in. | 22215 | 255.0 | 215.1 | 98.0 | 169.9 | 152.4 | 192.0 | 25.4 | 23.9 | 16 | 73.7 | 43.9 | 48.7 | 64.8 | 13.8 | 72.9 | 92.33 | 11.3 | |
| TAFB15K208S | 2 1/2 in. | | 10.04 | 8.47 | 3.86 | 6.69 | 6.00 | 7.56 | 1.00 | 0.94 | 5/8 | 2.90 | 1.73 | 1.92 | 2.55 | 0.54 | 2.87 | 3.64 | 25 | |
| TAFB15K065S | 65 mm | | | | | | | | | | | | | | | | | | | |
| TAFB17K215S | 2 15/16 in. | 22217 | 282.4 | 240.0 | 110.0 | 190.0 | 169.7 | 212.1 | 25.4 | 25.4 | 16 | 88.6 | 49.8 | 50.2 | 69.9 | 15.3 | 82.0 | 104.33 | 13.6 | |
| TAFB17K300S | 3 in. | | 11.12 | 9.45 | 4.33 | 7.48 | 6.68 | 8.35 | 1.00 | 1.00 | 3/8 | 3.49 | 1.96 | 1.98 | 2.75 | 0.60 | 3.23 | 4.12 | 30 | |
| TAFB17K075S | 75 mm | | | | | | | | | | | | | | | | | | | |
| TAFB20K307S | 3 7/16 in. | 22220 | 330.2 | 280.0 | 130.0 | 230.1 | 197.9 | 247.9 | 31.8 | 28.7 | 20 | 105.7 | 58.4 | 63.6 | 94.2 | 10.9 | 97.0 | 121.83 | 18.1 | |
| TAFB20K308S | 3 1/2 in. | | 13.00 | 11.02 | 5.12 | 9.06 | 7.79 | 9.76 | 1.25 | 1.13 | 3/4 | 4.16 | 2.30 | 2.51 | 3.71 | 0.43 | 3.82 | 4.80 | 40 | |
| TAFB20K090S | 90 mm | | | | | | | | | | | | | | | | | | | |
| TAFB22K315S | 3 15/16 in. | 22222 | 367.0 | 309.9 | 145.0 | 255.0 | 219.2 | 279.4 | 44.5 | 26.4 | 20 | 113.0 | 63.0 | 65.8 | 101.1 | 14.9 | 104.9 | 130.7 | 27.2 | |
| TAFB22K400S | 4 in. | | 14.45 | 12.20 | 5.71 | 10.04 | 8.63 | 11.00 | 1.75 | 1.04 | 3/4 | 4.45 | 2.48 | 2.59 | 3.98 | 0.59 | 4.13 | 5.15 | 60 | |
| TAFB22K100S | 100 mm | | | | | | | | | | | | | | | | | | | |
| TAFB26K407S | 4 7/16 in. | 22226 | 411.5 | 354.8 | 165.1 | 290.0 | 251.0 | 298.5 | 41.9 | 32.0 | 24 | 130.6 | 71.9 | 76.6 | 114.3 | 14.4 | 120.9 | 149.65 | 42.6 | |
| TAFB26K408S | 4 1/2 in. | | 16.20 | 13.97 | 6.50 | 11.42 | 9.88 | 11.75 | 1.65 | 1.26 | 7/8 | 5.14 | 2.83 | 3.01 | 4.50 | 0.56 | 4.76 | 5.89 | 94 | |
| TAFB26K115S | 115 mm | | | | | | | | | | | | | | | | | | | |

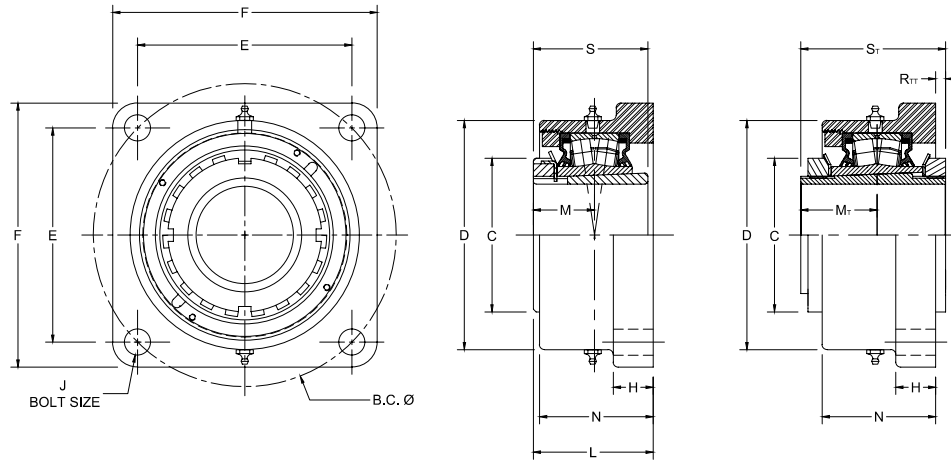
⁽¹⁾Double-nut (TAA/DAA) part number shown. Single-nut (TA/DV) version available upon request.

TAFNL SERIES SQUARE FLANGE BLOCKS - TAPERED BORE EQUIVALENT



| Bearing Part No. | Shaft Dia. | Bearing No. | A | B.C | C | D min. | E | F | G | H | J | L | M | N | S | Wt. |
|------------------|-------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| | 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. | mm in. | kg lbs. |
| TAFNL15K207S | 2 7/8 in. | 22215 | 255.0 | 215.0 | 98.0 | 170.0 | 152.0 | 192.0 | 25.4 | 23.9 | 16 | 73.7 | 43.9 | 64.8 | 72.9 | 11.3 |
| TAFNL15K208S | 2 1/2 in. | | 10.04 | 8.47 | 3.86 | 6.69 | 6.00 | 7.56 | 1.00 | 0.94 | 5/8 | 2.90 | 1.73 | 2.55 | 2.87 | 25 |
| TAFNL15K065S | 65 mm | | | | | | | | | | | | | | | |
| TAFNL16K211S | 2 11/16 in. | 22216 | 255.0 | 215.0 | 105.0 | 170.0 | 152.0 | 192.0 | 25.4 | 23.9 | 16 | 76.0 | 47.5 | 64.8 | 78.0 | 11.3 |
| TAFNL16K212S | 2 3/4 in. | | 10.04 | 8.47 | 4.12 | 6.69 | 6.00 | 7.56 | 1.00 | 0.94 | 5/8 | 3.00 | 1.87 | 2.55 | 3.07 | 25 |
| TAFNL16K070S | 70 mm | | | | | | | | | | | | | | | |
| TAFNL17K215S | 2 9/16 in. | 22217 | 282.0 | 240.0 | 110.0 | 190.0 | 170.0 | 212.0 | 25.4 | 24.9 | 16 | 81.0 | 50.0 | 69.0 | 82.0 | 13.6 |
| TAFNL17K300S | 3 in. | | 11.12 | 9.45 | 4.33 | 7.48 | 6.68 | 8.35 | 1.00 | 0.98 | 5/8 | 3.19 | 1.97 | 2.73 | 3.23 | 30 |
| TAFNL17K075S | 75 mm | | | | | | | | | | | | | | | |
| TAFNL18K303S | 3 3/8 in. | 22218 | 282.0 | 240.0 | 119.6 | 190.0 | 170.0 | 212.0 | 25.4 | 25.0 | 16 | 83.0 | 52.1 | 69.9 | 86.1 | 13.6 |
| TAFNL18K304S | 3 1/4 in. | | 11.12 | 9.45 | 4.71 | 7.48 | 6.68 | 8.35 | 1.00 | 0.98 | 5/8 | 3.27 | 2.05 | 2.75 | 3.39 | 30 |
| TAFNL18K080S | 80 mm | | | | | | | | | | | | | | | |
| TAFNL20K307S | 3 7/8 in. | 22220 | 329.0 | 280.0 | 130.0 | 230.0 | 198.0 | 248.0 | 31.8 | 28.7 | 20 | 105.7 | 58.4 | 94.2 | 97.0 | 18.1 |
| TAFNL20K308S | 3 1/2 in. | | 12.97 | 11.02 | 5.12 | 9.06 | 7.79 | 9.76 | 1.25 | 1.13 | 3/4 | 4.16 | 2.30 | 3.71 | 3.82 | 40 |
| TAFNL20K090S | 90 mm | | | | | | | | | | | | | | | |
| TAFNL22K315S | 3 5/8 in. | 22222 | 365.0 | 309.9 | 145.0 | 255.0 | 219.0 | 274.0 | 44.5 | 26.4 | 20 | 113.0 | 63.0 | 101.1 | 104.9 | 27.2 |
| TAFNL22K400S | 4 in. | | 14.37 | 12.20 | 5.71 | 10.04 | 8.63 | 10.80 | 1.75 | 1.04 | 3/4 | 4.45 | 2.48 | 3.98 | 4.13 | 60 |
| TAFNL22K100S | 100 mm | | | | | | | | | | | | | | | |

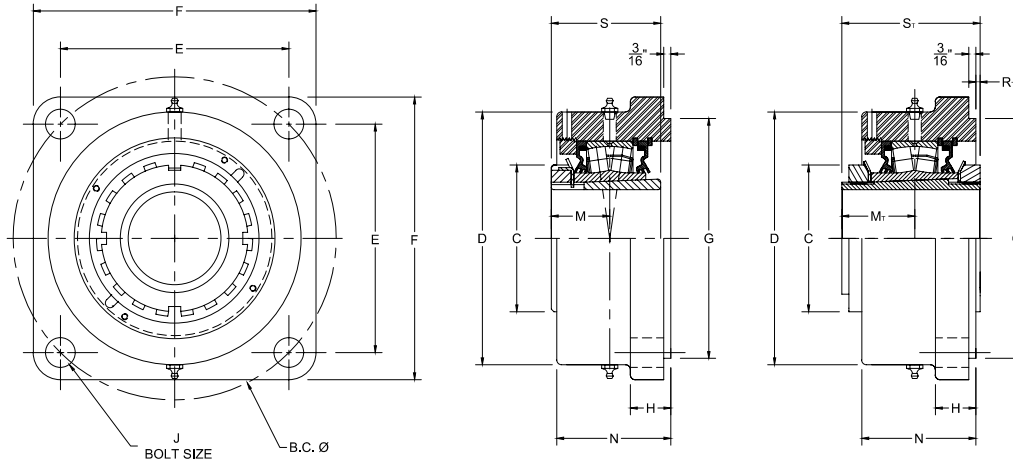
DAAF SQUARE FLANGE BLOCKS



| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | B.C. | C | D | E | F | H | J | L FIX | L EXP | M | M _T | N | R _{TT} | S | S _T | Wt. |
|---------------------------------|-------------|-------------|---------------|--------------|---------------|---------------|---------------|--------------|-----------|--------------|--------------|--------------|----------------|--------------|-----------------|--------------|----------------|------------|
| | 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. | mm in. | mm in. | mm in. | kg lbs. |
| DAAF09K107S | 1 7/8 in. | 22209 | 125.7 4.95 | 65.0 2.56 | 101.6 4.00 | 88.9 3.50 | 117.6 4.63 | 19.1 0.75 | 12 | 61.1 2.41 | 62.4 2.46 | 30.7 1.21 | 34.2 1.34 | 56.1 2.21 | 0.7 0.03 | 50.3 1.98 | 65.33 2.57 | 5.0 11 |
| DAAF09K108S | 1 1/2 in. | 22209 | 148.3 | 65.0 | 107.8 | 104.9 | 136.7 | 19.1 | 12 | 61.1 | 62.4 | 30.7 | 34.2 | 56.1 | 0.7 | 50.3 | 65.33 | 5.0 |
| DAAF09K040S | 40 mm | | 5.84 | 2.56 | 4.25 | 4.13 | 5.38 | 0.75 | 1/2 | 2.41 | 2.46 | 1.21 | 1.34 | 2.21 | 0.03 | 1.98 | 2.57 | 11 |
| DAAF10K111S | 1 1/4 in. | 22210 | 148.3 5.84 | 70.1 2.76 | 118.4 4.66 | 104.9 4.13 | 136.7 5.38 | 22.4 0.88 | 12 | 59.0 2.32 | 60.3 2.37 | 33.5 1.32 | 37.6 1.48 | 52.3 2.06 | 8.2 0.32 | 55.1 2.17 | 71.33 2.81 | 5.5 12 |
| DAAF10K112S | 1 3/4 in. | 22210 | 157.2 | 70.1 | 118.4 | 111.3 | 143.0 | 22.4 | 12 | 59.0 | 60.3 | 33.5 | 37.6 | 52.3 | 8.2 | 55.1 | 71.33 | 5.5 |
| DAAF10K045S | 45 mm | | 6.19 | 2.76 | 4.66 | 4.38 | 5.63 | 0.88 | 1/2 | 2.32 | 2.37 | 1.32 | 1.48 | 2.06 | 0.32 | 2.17 | 2.81 | 12 |
| DAAF11K115S | 1 1/8 in. | 22211 | 157.2 | 74.9 | 121.9 | 111.3 | 139.7 | 22.4 | 12 | 67.1 | 68.4 | 35.6 | 39.1 | 65.0 | 5.7 | 58.9 | 76.33 | 5.44 |
| DAAF11K200S | 2 in. | | 6.19 | 2.95 | 4.80 | 4.38 | 5.50 | 0.88 | 1/2 | 2.64 | 2.69 | 1.40 | 1.54 | 2.56 | 0.23 | 2.32 | 3.01 | 12 |
| DAAF11K050S | 50 mm | | | | | | | | | | | | | | | | | |
| DAAF13K203S | 2 3/8 in. | 22213 | 175.0 | 85.1 | 137.9 | 124.0 | 157.2 | 25.4 | 16 | 70.8 | 72.9 | 39.6 | 43.7 | 66.8 | 7.9 | 65.0 | 82.83 | 6.8 |
| DAAF13K204S | 2 1/4 in. | | 6.89 | 3.35 | 5.43 | 4.88 | 6.19 | 1.00 | 5/8 | 2.79 | 2.87 | 1.56 | 1.72 | 2.63 | 0.31 | 2.56 | 3.26 | 15 |
| DAAF13K060S | 60 mm | | | | | | | | | | | | | | | | | |
| DAAF15K207S | 2 7/8 in. | 22215 | 193.0 | 98.0 | 146.0 | 136.7 | 168.4 | 25.4 | 16 | 81.4 | 83.5 | 43.9 | 48.7 | 72.4 | 6.1 | 72.9 | 92.33 | 8.2 |
| DAAF15K208S | 2 1/2 in. | | 7.60 | 3.86 | 5.75 | 5.38 | 6.63 | 1.00 | 3/8 | 3.20 | 3.29 | 1.73 | 1.92 | 2.85 | 0.24 | 2.87 | 3.64 | 18 |
| DAAF15K065S | 65 mm | | | | | | | | | | | | | | | | | |
| DAAF17K215S | 2 15/16 in. | 22217 | 215.4 | 110.0 | 170.7 | 152.4 | 189.0 | 26.9 | 20 | 87.9 | 90.0 | 49.8 | 50.2 | 77.0 | 16.0 | 82.0 | 104.33 | 12.7 |
| DAAF17K300S | 3 in. | | 8.48 | 4.33 | 6.72 | 6.00 | 7.44 | 1.06 | 3/4 | 3.46 | 3.54 | 1.96 | 1.98 | 3.03 | 0.63 | 3.23 | 4.12 | 28 |
| DAAF17K075S | 75 mm | | | | | | | | | | | | | | | | | |
| DAAF20K307S | 3 7/8 in. | 22220 | 251.5 | 130.0 | 193.8 | 177.8 | 219.2 | 33.3 | 20 | 100.9 | 103.0 | 58.4 | 63.6 | 84.1 | 15.7 | 97.0 | 121.83 | 17.7 |
| DAAF20K308S | 3 1/2 in. | | 9.90 | 5.12 | 7.63 | 7.00 | 8.63 | 1.31 | 3/4 | 3.97 | 4.06 | 2.30 | 2.51 | 3.31 | 0.62 | 3.82 | 4.80 | 39 |
| DAAF20K090S | 90 mm | | | | | | | | | | | | | | | | | |
| DAAF22K315S | 3 15/16 in. | 22222 | 278.4 | 145.0 | 215.9 | 196.9 | 253.2 | 38.1 | 24 | 119.9 | 122.0 | 63.0 | 65.8 | 103.1 | 8.0 | 104.9 | 130.7 | 24.0 |
| DAAF22K400S | 4 in. | | 10.96 | 5.71 | 8.50 | 7.75 | 9.97 | 1.50 | 7/8 | 4.72 | 4.80 | 2.48 | 2.59 | 4.06 | 0.31 | 4.13 | 5.15 | 53 |
| DAAF22K100S | 100 mm | | | | | | | | | | | | | | | | | |
| DAAF26K407S | 4 7/8 in. | 22226 | 314.5 | 165.1 | 263.7 | 222.3 | 276.4 | 38.1 | 24 | 124.7 | 126.8 | 71.9 | 76.6 | 106.9 | 20.3 | 120.9 | 149.65 | 34.0 |
| DAAF26K408S | 4 1/2 in. | | 12.38 | 6.50 | 10.38 | 8.75 | 10.88 | 1.50 | 7/8 | 4.91 | 4.99 | 2.83 | 3.01 | 4.21 | 0.80 | 4.76 | 5.89 | 75 |
| DAAF26K115S | 115 mm | | | | | | | | | | | | | | | | | |

⁽¹⁾Double-nut (TAA/DAA) part number shown. Single-nut (TA/DV) version available upon request.

TAAFK 9000 SERIES SQUARE FLANGE BLOCKS



| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | B.C. | C | D | E | F | G ⁽²⁾⁽³⁾⁽⁴⁾ | H | J | L FIX | L EXP | M | M _T | N | R | R _T | S | S _T | Wt. |
|---------------------------------|-------------|-------------|-------------------------------|---------------|----------------|------------------------------|----------------|------------------------|--------------|----------------------------|---------------|---------------|--------------|----------------|---------------|--------------|----------------|---------------|----------------|-------------|
| | 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. | mm in. | mm in. | mm in. | mm in. | mm in. | kg lbs. |
| TAAFK11K115S | 1 1/8 in. | 22211 | 161.5 6.36 | 74.9 2.95 | 130.3 5.13 | 114.3 4.50 | 149.4 5.88 | 127.00 5.000 | 25.4 1.00 | 16 5/8 | 71.6 2.82 | 72.9 2.87 | 35.6 1.40 | 39.1 1.54 | 66.8 2.63 | 12.7 0.50 | 1.2 0.05 | 58.9 2.32 | 76.33 3.01 | 5.0 11 |
| TAAFK11K200S | 2 in. | | | | | | | | | | | | | | | | | | | |
| TAAFK11K050S | 50 mm | | | | | | | | | | | | | | | | | | | |
| TAAFK13K203S | 2 3/8 in. | 22213 | 180.8 7.12 | 85.1 3.35 | 146.1 5.75 | 127.8 5.03 | 157.2 6.19 | 138.13 5.438 | 25.4 1.00 | 16 5/8 | 77.7 3.06 | 79.8 3.14 | 39.6 1.56 | 43.7 1.72 | 72.4 2.85 | 12.7 0.50 | 1.0 0.04 | 65.0 2.56 | 82.83 3.26 | 6. 14 |
| TAAFK13K204S | 2 1/4 in. | | | | | | | | | | | | | | | | | | | |
| TAAFK13K060S | 60 mm | | | | | | | | | | | | | | | | | | | |
| TAAFK15K207S | 2 7/8 in. | 22215 | 215.9 8.50 | 98.0 3.86 | 168.9 6.65 | 152.7 6.01 | 189.0 7.44 | 160.35 6.313 | 26.9 1.06 | 20 3/4 | 84.8 3.34 | 86.9 3.42 | 43.9 1.73 | 48.7 1.92 | 76.2 3.00 | 11.9 0.47 | 2.7 0.11 | 72.9 2.87 | 92.33 3.64 | 7.7 17 |
| TAAFK15K208S | 2 1/2 in. | | | | | | | | | | | | | | | | | | | |
| TAAFK15K065S | 65 mm | | | | | | | | | | | | | | | | | | | |
| TAAFK17K215S | 2 15/16 in. | 22217 | 241.3 9.50 | 110.0 4.33 | 193.8 7.63 | 170.7 6.72 | 212.9 8.38 | 187.33 7.375 | 33.3 1.31 | 20 3/4 | 96.3 3.79 | 98.3 3.87 | 49.8 1.96 | 50.2 1.98 | 84.1 3.31 | 14.2 0.56 | 7.6 0.30 | 82.0 3.23 | 104.33 4.12 | 10.4 23 |
| TAAFK17K300S | 3 in. | | | | | | | | | | | | | | | | | | | |
| TAAFK17K075S | 75 mm | | | | | | | | | | | | | | | | | | | |
| TAAFK20K307S | 3 7/8 in. | 22220 | 298.5 11.75 | 130.0 5.12 | 215.9 8.50 | 211.1 8.31 | 268.2 10.56 | 225.43 8.875 | 38.1 1.50 | 24 7/8 | 114.6 4.51 | 116.6 4.59 | 58.4 2.30 | 63.6 2.51 | 103.1 4.06 | 17.5 0.69 | 2.0 0.08 | 97.0 3.82 | 121.83 4.80 | 15.9 35 |
| TAAFK20K308S | 3 1/2 in. | | | | | | | | | | | | | | | | | | | |
| TAAFK20K090S | 90 mm | | | | | | | | | | | | | | | | | | | |
| TAAFK22K315S ⁽⁵⁾ | 3 15/16 in. | 22222 | 327.2 12.88 ⁽⁵⁾ | 145.0 5.71 | 256.5 10.10 | 163.6 6.44 ⁽⁵⁾ | 384.3 15.13 | 263.53 10.375 | 38.1 1.50 | 24 1 ⁽⁵⁾ | 117.3 4.62 | 119.4 4.70 | 63.0 2.48 | 65.8 2.59 | 106.9 4.21 | 12.4 0.49 | 10.6 0.42 | 104.9 4.13 | 130.7 5.15 | 24.9 55 |
| TAAFK22K400S ⁽⁵⁾ | 4 in. | | | | | | | | | | | | | | | | | | | |
| TAAFK22K100S ⁽⁵⁾ | 100 mm | | | | | | | | | | | | | | | | | | | |
| TAAFK26K407S ⁽⁵⁾ | 4 7/8 in. | 22226 | 355.6 14.00 ⁽⁵⁾ | 165.1 6.50 | 284.2 11.19 | 177.8 7.00 ⁽⁵⁾ | 419.1 16.50 | 284.18 11.188 | 38.1 1.50 | 27 1 1/8 ⁽⁵⁾ | 147.3 5.80 | 149.4 5.88 | 71.9 2.83 | 76.6 3.01 | 135.1 5.32 | 26.4 1.04 | -2.4 -0.09 | 120.9 4.76 | 149.65 5.89 | 49.0 108 |
| TAAFK26K408S ⁽⁵⁾ | 4 1/2 in. | | | | | | | | | | | | | | | | | | | |
| TAAFK26K115S ⁽⁵⁾ | 115 mm | | | | | | | | | | | | | | | | | | | |

⁽¹⁾Double-nut (TAA/DAA) part number shown. Single-nut (TA/DV) version available upon request.

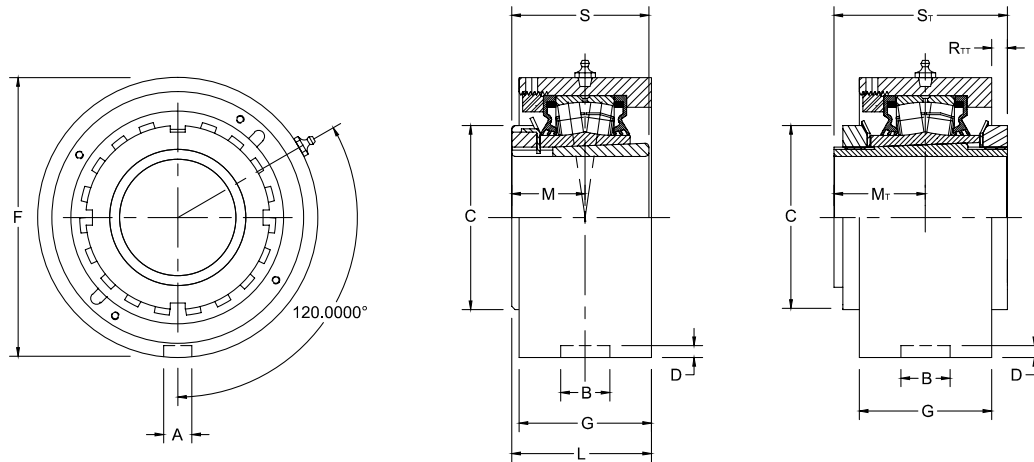
⁽²⁾Pilot tolerance: +0/-0.05 mm (+0/-0.002 in.).

⁽³⁾Add (p) to the end of the housing designation in the part number to order with pilot using G dimension.

⁽⁴⁾Piloted flange blocks will be quoted (price and delivery) upon request. For optional spigot on flange side, insert the letter P as seen in the following example: QMFP**J***S.

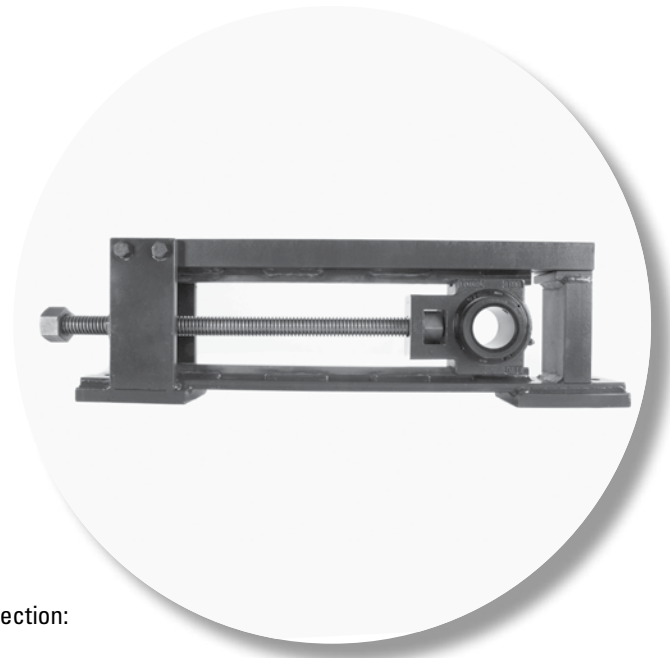
⁽⁵⁾Six-bolt housing.

TAAMC CARTRIDGE BLOCKS



| Bearing Part No. ⁽¹⁾ | Shaft Dia. | Bearing No. | A | B | C | D | F | G | L FIX | L EXP | M | M _T | R _{TT} | S | S _T | Wt. |
|---------------------------------|-------------|-------------|---------------|---------------|---------------|--------------|---|---------------|---------------|---------------|--------------|----------------|-----------------|---------------|----------------|------------|
| | 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. | mm in. | kg lbs. |
| TAAMC11K115S | 1 1/8 in. | 22211 | 13.5 0.530 | 23.0 0.906 | 74.9 2.95 | 4.8 0.188 | 115.09 (+0/-0.05) 4.531 (+0/-0.002) | 55.4 2.18 | 63.2 2.49 | 64.5 2.54 | 35.6 1.40 | 39.1 1.54 | 9.6 0.38 | 58.9 2.32 | 76.33 3.01 | 4.5 10 |
| TAAMC11K200S | 2 in. | | | | | | | | | | | | | | | |
| TAAMC11K050S | 50 mm | | | | | | | | | | | | | | | |
| TAAMC13K203S | 2 3/8 in. | 22213 | 13.5 0.530 | 23.0 0.906 | 85.1 3.35 | 4.8 0.188 | 127.00 (+0/-0.05) 5.000 (+0/-0.002) | 67.1 2.64 | 70.9 2.79 | 72.9 2.87 | 39.6 1.56 | 43.7 1.72 | 7.8 0.31 | 65.0 2.56 | 82.83 3.26 | 5.4 12 |
| TAAMC13K204S | 2 1/4 in. | | | | | | | | | | | | | | | |
| TAAMC13K060S | 60 mm | | | | | | | | | | | | | | | |
| TAAMC15K207S | 2 7/8 in. | 22215 | 15.1 0.594 | 26.2 1.032 | 98.0 3.86 | 6.4 0.250 | 149.23 (+0/-0.05) 5.875 (+0/-0.002) | 70.6 2.78 | 78.2 3.08 | 80.3 3.16 | 43.9 1.73 | 48.7 1.92 | 9.3 0.37 | 72.9 2.87 | 92.33 3.64 | 8.2 18 |
| TAAMC15K208S | 2 1/2 in. | | | | | | | | | | | | | | | |
| TAAMC15K065S | 65 mm | | | | | | | | | | | | | | | |
| TAAMC17K215S | 2 11/16 in. | 22217 | 15.1 0.594 | 27.5 1.083 | 110.0 4.33 | 7.1 0.281 | 171.45 (+0/-0.05) 6.750 (+0/-0.002) | 74.9 2.95 | 87.4 3.44 | 89.4 3.52 | 49.8 1.96 | 50.2 1.98 | 16.5 0.65 | 82.0 3.23 | 104.33 4.12 | 11.8 26 |
| TAAMC17K300S | 3 in. | | | | | | | | | | | | | | | |
| TAAMC17K075S | 75 mm | | | | | | | | | | | | | | | |
| TAAMC20K307S | 3 7/8 in. | 22220 | 19.8 0.781 | 32.5 1.281 | 130.0 5.12 | 8.0 0.313 | 206.38 (+0/-0.05) 8.125 (+0/-0.002) | 85.6 3.37 | 101.3 3.99 | 103.4 4.07 | 58.4 2.30 | 63.6 2.51 | 15.3 0.60 | 97.0 3.82 | 121.83 4.80 | 14.5 32 |
| TAAMC20K308S | 3 1/2 in. | | | | | | | | | | | | | | | |
| TAAMC20K090S | 90 mm | | | | | | | | | | | | | | | |
| TAAMC22K315S | 3 11/16 in. | 22222 | 19.8 0.781 | 32.5 1.281 | 145.0 5.71 | 8.0 0.313 | 222.25 (+0/-0.08) 8.750 (+0/-0.003) | 97.8 3.85 | 112.0 4.41 | 114.0 4.49 | 63.0 2.48 | 65.8 2.59 | 15.9 0.63 | 104.9 4.13 | 130.7 5.15 | 18.1 40 |
| TAAMC22K400S | 4 in. | | | | | | | | | | | | | | | |
| TAAMC22K100S | 100 mm | | | | | | | | | | | | | | | |
| TAAMC26K407S | 4 7/8 in. | 22226 | 19.8 0.780 | 38.1 1.500 | 165.1 6.50 | 8.0 0.313 | 265.10 (+0/-0.08) 10.437 (+0/-0.003) | 104.4 4.11 | 124.2 4.89 | 126.2 4.97 | 71.9 2.83 | 76.6 3.01 | 20.8 0.82 | 120.9 4.76 | 149.65 5.89 | 23.6 52 |
| TAAMC26K408S | 4 1/2 in. | | | | | | | | | | | | | | | |
| TAAMC26K115S | 115 mm | | | | | | | | | | | | | | | |

⁽¹⁾Double-nut (TAA/DAA) part number shown. Single-nut (TA/DV) version available upon request.

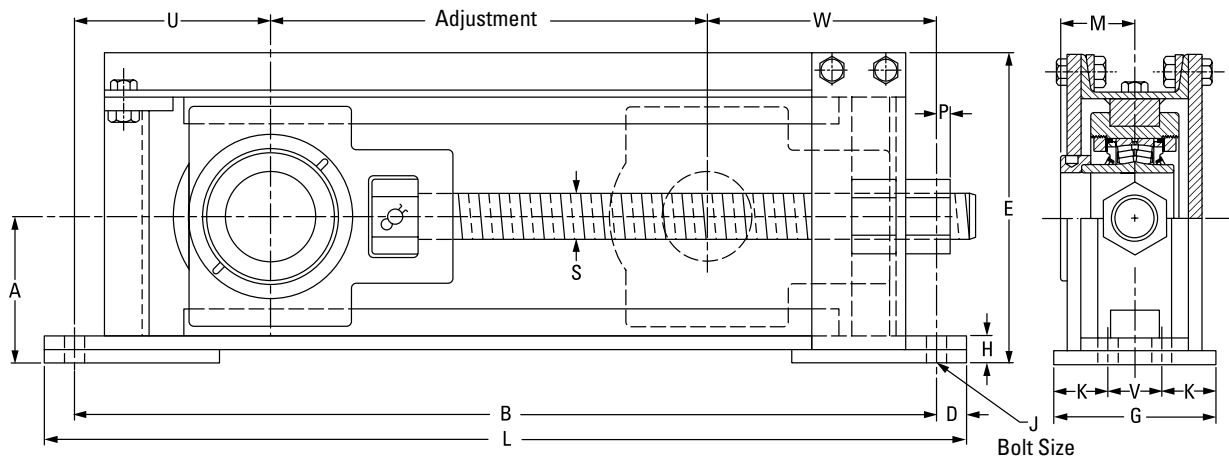


TAKE-UP FRAMES

The following topics are covered within this section:

| | |
|--|-----|
| QMTF Take-Up Frames ⁽¹⁾ | 210 |
| QMT Pillow Block Take-Up Frames ⁽¹⁾ | 211 |

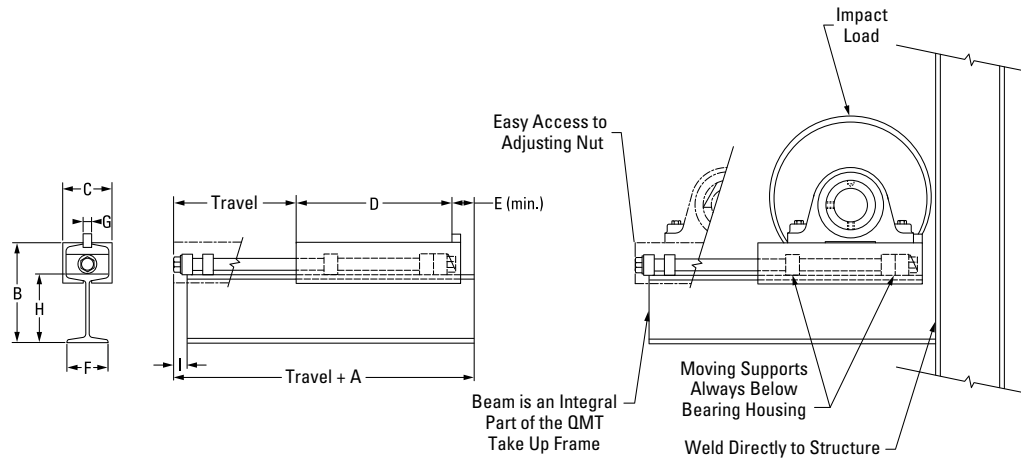
QMTF TAKE-UP FRAMES⁽¹⁾



| Frame Part No. | Travel Nom. | Travel Adj. | Dimensions | | | | | | | | | | | | | | | No. of Bolts Req. | Wt. | |
|----------------|-------------|----------------|---------------|-----------------|--------------|----------------|---------------|--------------|-----------|--------------|-----------------|--------------|--------------|-----------------|---------------|--------------|----------------|-------------------|--------------|---------|
| | | | A | B | D | E | G | H | J | K | L | M | P | S | U | V | W | | | |
| | | | 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. | mm in. | mm in. | mm in. | | kg lbs. |
| QMTF12-115 | 12 | 419.1 16.50 | 100.1 3.94 | 698.5 27.50 | 25.4 1.00 | 210.3 8.28 | 101.6 4.00 | 31.8 1.25 | 16 5/8 | - | 749.3 29.50 | 47.8 1.88 | 31.8 1.25 | 1-5 ACME | 136.7 5.38 | - | 143.0 5.63 | 2 | 27.2 60 | |
| QMTF12-203 | 12 | 431.8 17.00 | 106.4 4.19 | 698.5 27.50 | 25.4 1.00 | 220.0 8.66 | 101.6 4.00 | 35.1 1.38 | 16 5/8 | - | 749.3 29.50 | 50.8 2.00 | 41.4 1.63 | 1.125-5 ACME | 115.8 4.56 | - | 150.9 5.94 | 2 | 29.5 65 | |
| QMTF12-207 | 12 | 421.6 16.60 | 111.3 4.38 | 723.9 28.50 | 25.4 1.00 | 233.4 9.19 | 101.6 4.00 | 28.7 1.13 | 20 3/4 | - | 774.7 30.50 | 54.1 2.13 | 44.5 1.75 | 1.25-5 ACME | 134.9 5.31 | - | 166.6 6.56 | 2 | 32.2 71 | |
| QMTF12-215 | 12 | 393.7 15.50 | 129.3 5.09 | 774.7 30.50 | 25.4 1.00 | 272.8 10.74 | 127.0 5.00 | 28.7 1.13 | 16 5/8 | 38.1 1.50 | 825.5 32.50 | 60.5 2.38 | 12.7 0.50 | 1.5-4 ACME | 165.1 6.50 | 50.8 2.00 | 215.9 8.50 | 4 | 49.4 109 | |
| QMTF12-307 | 12 | 393.7 15.50 | 143.0 5.63 | 812.8 32.00 | 28.7 1.13 | 295.4 11.63 | 127.0 5.00 | 26.2 1.03 | 20 3/4 | 38.1 1.50 | 870.0 34.25 | 65.5 2.58 | 25.4 1.00 | 1.75-4 ACME | 185.7 7.31 | 50.8 2.00 | 233.4 9.19 | 4 | 62.6 138 | |
| QMTF12-315 | 12 | 457.2 18.00 | 177.8 7.00 | 914.4 36.00 | 31.8 1.25 | 367.5 14.47 | 152.4 6.00 | 36.6 1.44 | 20 3/4 | 44.5 1.75 | 977.9 38.50 | 75.2 2.96 | 41.4 1.63 | 2-4 ACME | 190.5 7.50 | 63.5 2.50 | 265.2 10.44 | 4 | 86.6 191 | |
| QMTF18-207 | 18 | 574.0 22.60 | 111.3 4.38 | 876.3 34.50 | 25.4 1.00 | 234.2 9.22 | 101.6 4.00 | 26.9 1.06 | 20 3/4 | - | 927.1 36.50 | 54.1 2.13 | 44.5 1.75 | 1.25-5 ACME | 139.7 5.50 | - | 162.6 6.40 | 2 | 36.7 81 | |
| QMTF18-215 | 18 | 546.1 21.50 | 129.3 5.09 | 927.1 36.50 | 25.4 1.00 | 272.8 10.74 | 127.0 5.00 | 28.7 1.13 | 16 5/8 | 38.1 1.50 | 977.9 38.50 | 60.5 2.38 | 12.7 0.50 | 1.5-4 ACME | 165.1 6.50 | 50.8 2.00 | 215.9 8.50 | 4 | 54.4 120 | |
| QMTF18-307 | 18 | 546.1 21.50 | 143.0 5.63 | 965.2 38.00 | 28.7 1.13 | 295.4 11.63 | 127.0 5.00 | 26.2 1.03 | 20 3/4 | 38.1 1.50 | 1022.4 40.25 | 65.5 2.58 | 25.4 1.00 | 1.75-4 ACME | 185.7 7.31 | 50.8 2.00 | 233.4 9.19 | 4 | 70.8 156 | |
| QMTF18-315 | 18 | 609.6 24.00 | 177.8 7.00 | 1066.8 42.00 | 31.8 1.25 | 366.8 14.44 | 152.4 6.00 | 36.6 1.44 | 20 3/4 | 44.5 1.75 | 1130.3 44.50 | 75.2 2.96 | 41.4 1.63 | 2-4 ACME | 190.5 7.50 | 63.5 2.50 | 265.2 10.44 | 4 | 101.2 223 | |
| QMTF24-207 | 24 | 726.4 28.60 | 111.3 4.38 | 1028.7 40.50 | 25.4 1.00 | 233.4 9.19 | 101.6 4.00 | 28.7 1.13 | 20 3/4 | - | 1079.5 42.50 | 54.1 2.13 | 44.5 1.75 | 1.25-5 ACME | 115.8 4.56 | - | 166.6 6.56 | 2 | 41.3 91 | |
| QMTF24-215 | 24 | 698.5 27.50 | 129.3 5.09 | 1079.5 42.50 | 25.4 1.00 | 271.5 10.69 | 127.0 5.00 | 24.6 0.97 | 16 5/8 | 38.1 1.50 | 1130.3 44.50 | 60.5 2.38 | 12.7 0.50 | 1.5-4 ACME | 165.1 6.50 | 50.8 2.00 | 215.9 8.50 | 4 | 64.0 141 | |
| QMTF24-307 | 24 | 698.5 27.50 | 143.0 5.63 | 1117.6 44.00 | 28.7 1.13 | 295.4 11.63 | 127.0 5.00 | 26.2 1.03 | 20 3/4 | 38.1 1.50 | 1174.8 46.25 | 65.5 2.58 | 25.4 1.00 | 1.75-4 ACME | 185.7 7.31 | 50.8 2.00 | 233.4 9.19 | 4 | 81.2 179 | |
| QMTF24-315 | 24 | 762.0 30.00 | 177.8 7.00 | 1219.2 48.00 | 31.8 1.25 | 367.5 14.47 | 152.4 6.00 | 36.6 1.44 | 20 3/4 | 44.5 1.75 | 1282.7 50.50 | 75.2 2.96 | 41.4 1.63 | 2-4 ACME | 190.5 7.50 | 63.5 2.50 | 265.2 10.44 | 4 | 112.9 249 | |

⁽¹⁾Frame only. Bearing unit must be ordered separately. See pages 116 (V-Lock), 143-146 (CL) and 172-173 (EC) for information on take-up bearing units.
NOTE: All take-up frames come with Acme threaded rod.

QMT PILLOW BLOCK TAKE-UP FRAMES⁽¹⁾



| Frame Part No. | Bearing Size | Travel | A | B | C | D | E | F | G | H | I | Wt. |
|----------------|--------------------------|--------|---------------|----------------|----------------|----------------|--------------|---------------|-----------|--------------|-------------|------------|
| | | | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. | mm in. | kg lbs. |
| QMT1 X 9 | 1 7/16 in. – 2 15/16 in. | 9 | 330.2 13.0 | 187.3 7.375 | 92.1 3.625 | 289.1 11.38 | 41.4 1.63 | 76.2 3.00 | 20 3/4 | 127.0 5.0 | 25.4 1.0 | 11.8 26 |
| QMT1 X 12 | 1 7/16 in. – 2 15/16 in. | 12 | 330.2 13.0 | 187.3 7.375 | 92.1 3.625 | 289.1 11.38 | 41.4 1.63 | 76.2 3.00 | 20 3/4 | 127.0 5.0 | 25.4 1.0 | 13.6 30 |
| QMT1 X 18 | 1 7/16 in. – 2 15/16 in. | 18 | 330.2 13.0 | 187.3 7.375 | 92.1 3.625 | 289.1 11.38 | 41.4 1.63 | 76.2 3.00 | 20 3/4 | 127.0 5.0 | 25.4 1.0 | 16.3 36 |
| QMT1 X 24 | 1 7/16 in. – 2 15/16 in. | 24 | 330.2 13.0 | 187.3 7.375 | 92.1 3.625 | 289.1 11.38 | 41.4 1.63 | 76.2 3.00 | 20 3/4 | 127.0 5.0 | 25.4 1.0 | 19.1 42 |
| QMT2 X 18 | 2 15/16 in. – 4 7/16 in. | 18 | 482.6 19.0 | 311.2 12.25 | 125.4 4.938 | 431.8 17.00 | 50.8 2.00 | 106.4 4.19 | 24 1 | 203.2 8.0 | 38.1 1.5 | 33.6 74 |
| QMT2 X 24 | 2 15/16 in. – 4 7/16 in. | 24 | 482.6 19.0 | 311.2 12.25 | 125.4 4.938 | 431.8 17.00 | 50.8 2.00 | 106.4 4.19 | 24 1 | 203.2 8.0 | 38.1 1.5 | 40.8 90 |
| QMT2 X 36 | 2 15/16 in. – 4 7/16 in. | 36 | 482.6 19.0 | 311.2 12.25 | 125.4 4.938 | 431.8 17.00 | 50.8 2.00 | 106.4 4.19 | 24 1 | 203.2 8.0 | 38.1 1.5 | 43.6 96 |

⁽¹⁾Frame only. Bearing unit must be ordered separately. See pages 116 (V-Lock), 143-146 (CL) and 172-173 (EC) for information on take-up bearing units.
NOTE: All take-up frames come with Acme threaded rod.

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