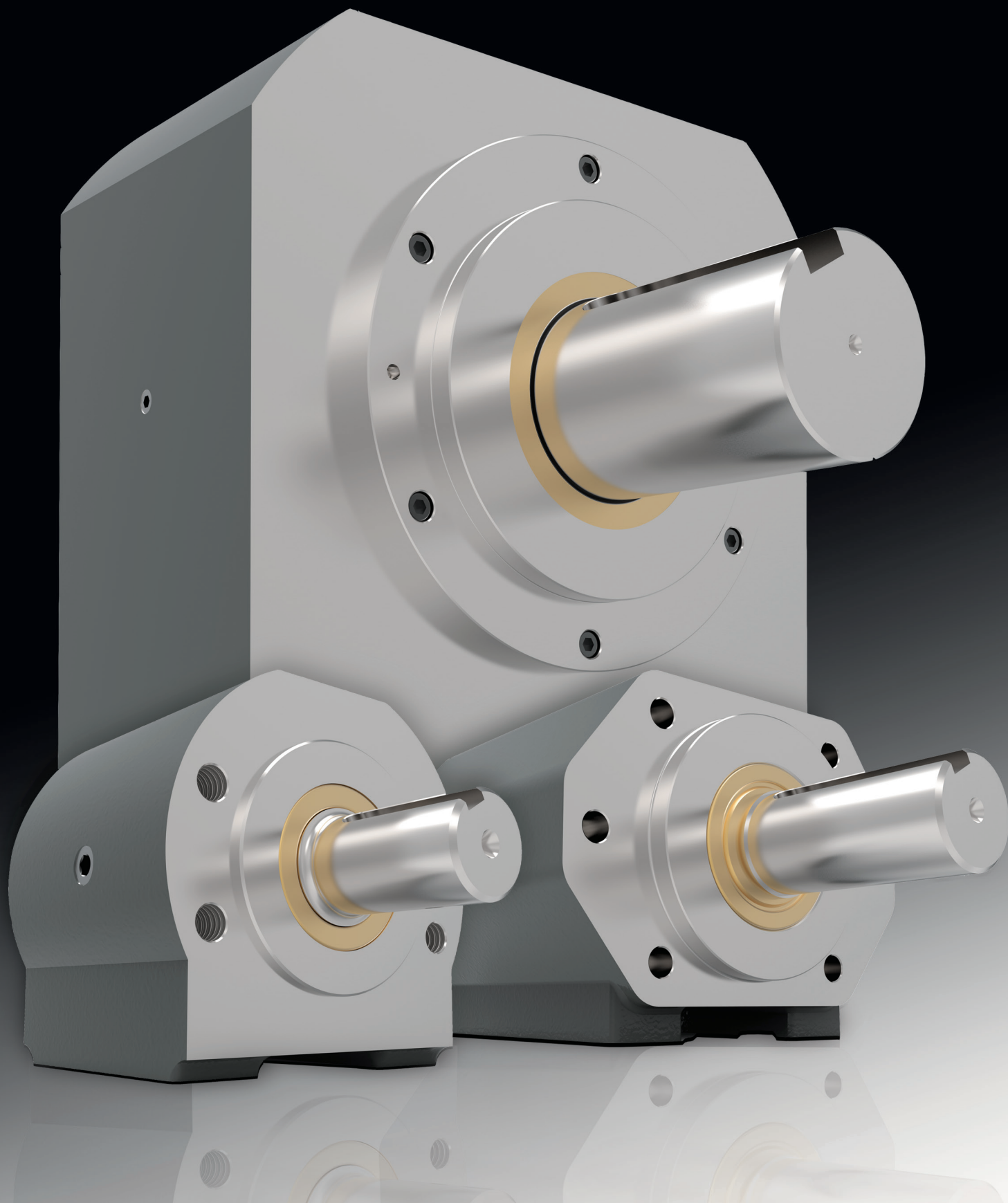


**////// ZERO-MAX®**

**OHLA®**  
**Overhung Load Adaptors**



# OHLA<sup>®</sup>

## Overhung Load Adaptors

### Zero-Max is a world-leading expert in Overhung Load Technology

The first complete line of SAE "A" through SAE "F" mount OHLA Overhung Load Adaptors was designed by ZERO-MAX. We set the industry standard with the OHLA design. Today, we provide immediate shipment of standard models from stock.

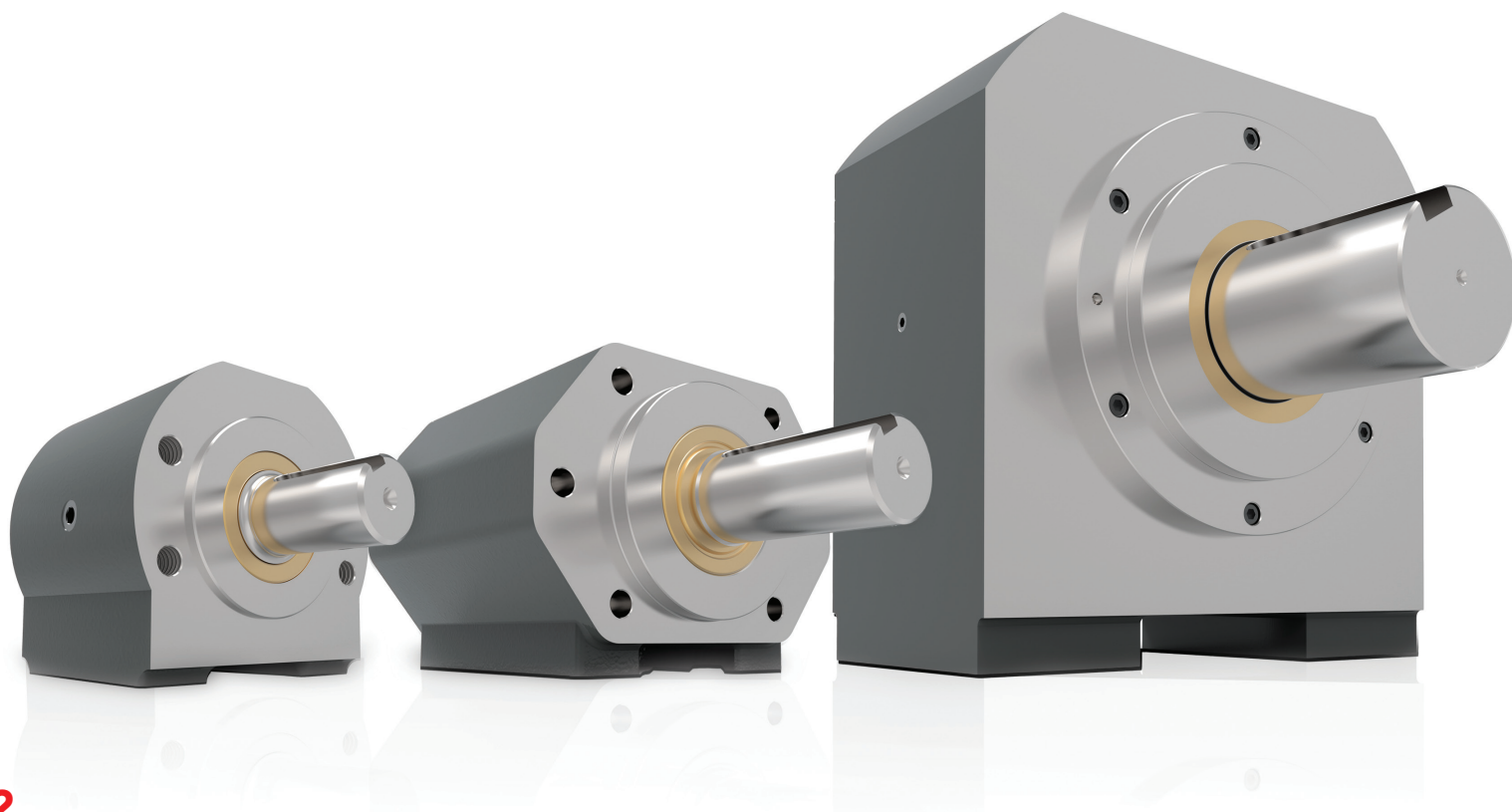
From the smallest Model 200 SAE "A" mount to the largest Model 1500 SAE "F" mount, OHLAs feature rugged housings of cast iron, shafts of 130,000 PSI stress proof steel, ball, tapered, or spherical roller bearings, many different shaft options and attractively painted housings. All models may be either face-or foot-mounted.

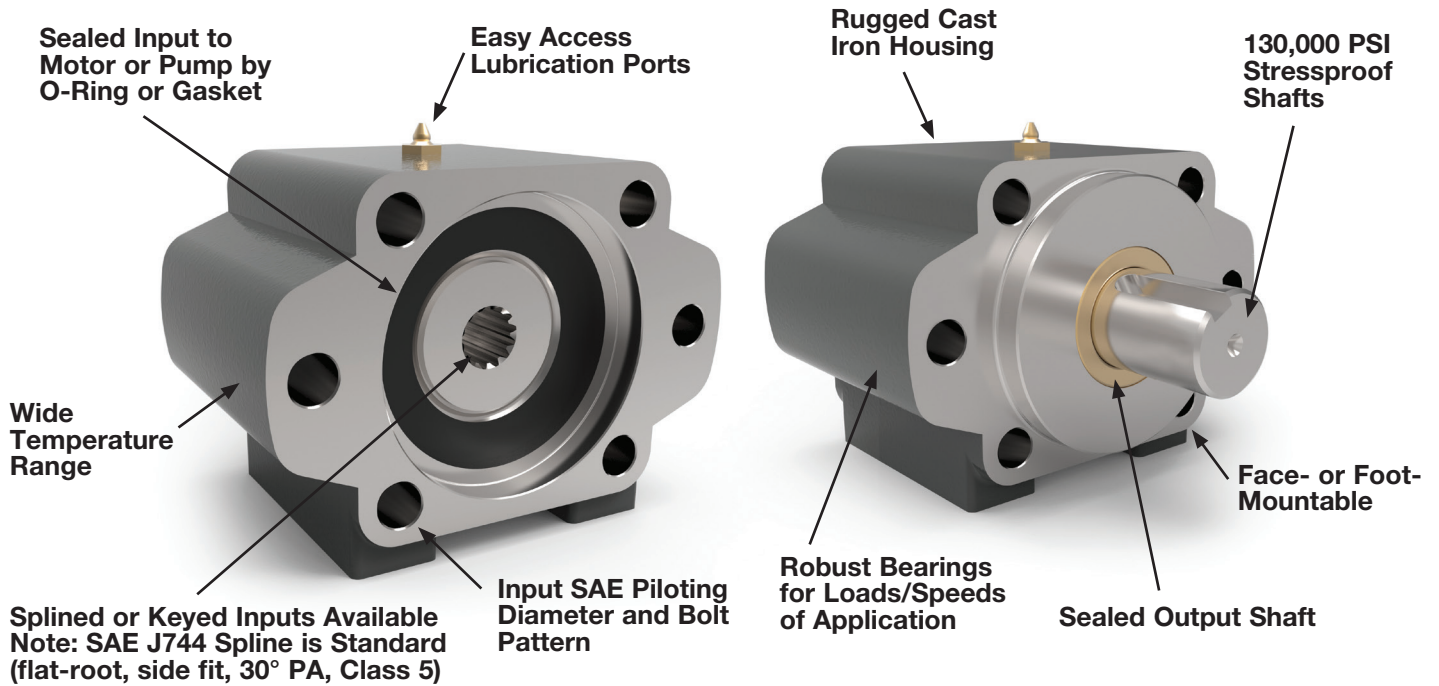
We offer many custom options or we'll create a special design for your application when needed. See pages 49-51 for more details.

### Count on OHLAs for these important benefits:

- Eliminates premature motor or pump failure due to overhung loads (axial and radial) on your motor or pump shaft
- Prevents contamination of hydraulic fluid in harsh environments
- Provides a solid, permanent mounting surface
- Permits the removal of hydraulic motors for servicing without disturbing driven gears, pulleys or sprockets
- Seals out dirt, grime, and other contaminants

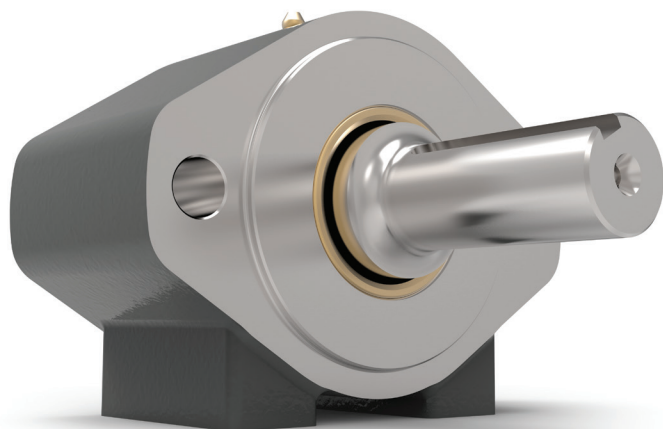
*Call a ZERO-MAX technical sales representative now. There's a model and size OHLA to handle every design need – or we'll engineer a special one just for you. **1-800-533-1731***





## OHLA Adaptors SAE "A" to "F"



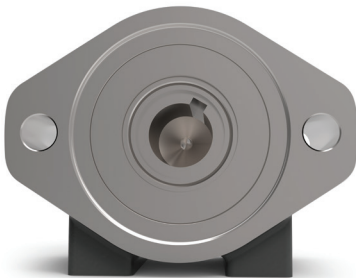
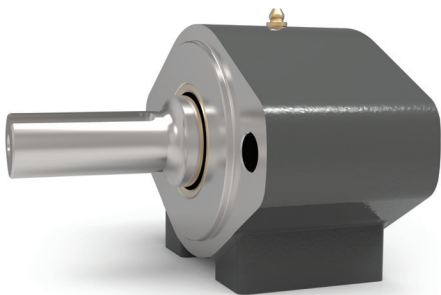


### Features

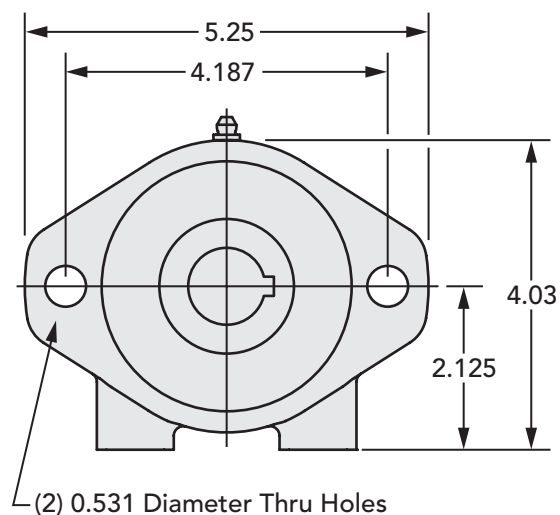
- SAE A 2-bolt mounting
- Deep Groove Ball Bearings
- May be either Face-mounted or Foot-mounted
- Provides a sturdy mounting base for the motor or pump
- Supports heavy radial and axial loads - protecting the hydraulic motor or pump
- Reduces downtime and maintenance costs
- Protects pump or motor shaft seal from harmful contaminants

#### 210 Series Data

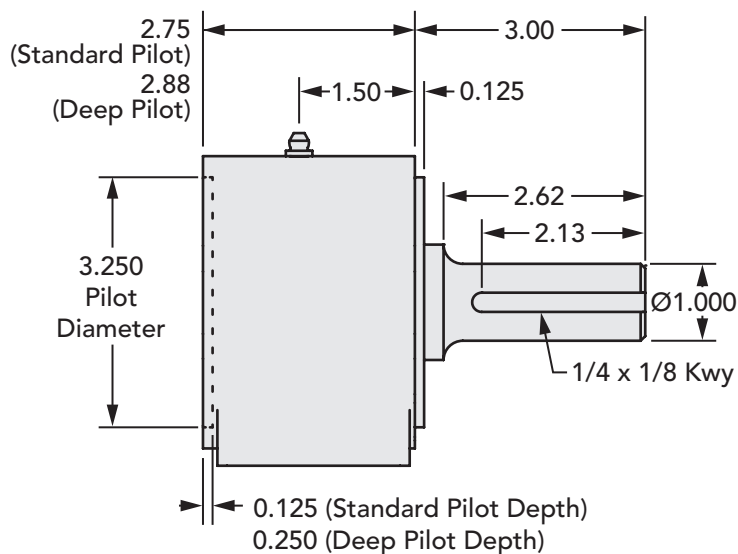
|                                                    |                                                                                                                                                      |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input Standard                                     | SAE A 2-bolt                                                                                                                                         |
| Input Pilot Diameter                               | 3.250"                                                                                                                                               |
| Input Pilot Depth                                  | (standard housing) 0.125"<br>(deep pilot option) 0.250"                                                                                              |
| Input Pilot Sealing Method                         | Buna-N Gasket                                                                                                                                        |
| Input Bore Diameter and Depth                      | 1" keyed - bore depth is 2.31"<br>5/8" keyed - bore depth is 2.31"<br>3/4" keyed - bore depth is 2.81"<br>9 tooth 16/32 spline - bore depth is 1.68" |
| Output Shaft Diameter                              | 1"                                                                                                                                                   |
| Output Shaft Keyway                                | 1/4" x 1/8" keyway                                                                                                                                   |
| Output Shaft Keyway Length                         | 2.13"                                                                                                                                                |
| Output Shaft Length                                | 2.87"                                                                                                                                                |
| Output Shaft Seal Type                             | Double-lip with Garter Spring                                                                                                                        |
| Output Pilot Diameter                              | 3.250"                                                                                                                                               |
| Output Pilot Height                                | 0.120"                                                                                                                                               |
| Shaft Material                                     | 1144 Stressproof Steel                                                                                                                               |
| Bearing Type                                       | Deep Groove Ball Bearings                                                                                                                            |
| Standard Lubrication Method                        | Grease                                                                                                                                               |
| Optional Lubrication Methods                       | Please Consult Factory                                                                                                                               |
| Grease Fitting                                     | (1) Standard Zerk Fitting                                                                                                                            |
| Grease Capacity                                    | Minimum 0.5 oz.<br>Maximum 1.0 oz.                                                                                                                   |
| Grease Type (recommended for typical applications) | NLGI #2                                                                                                                                              |
| Recommended Grease Base                            | Lithium                                                                                                                                              |
| Standard Mounting Orientation                      | Shaft Horizontal - Consult Factory for other Mounting Orientations                                                                                   |
| Maximum Speed Without Modification                 | 3800 RPM                                                                                                                                             |
| Housing Material                                   | Cast Iron                                                                                                                                            |
| Housing Feet - Threaded Holes                      | (4) 3/8"-16 UNC x 0.68" deep                                                                                                                         |
| Housing Grease Ports                               | Press-fit Zerk Fitting                                                                                                                               |
| Unit Weight                                        | 10 lbs                                                                                                                                               |



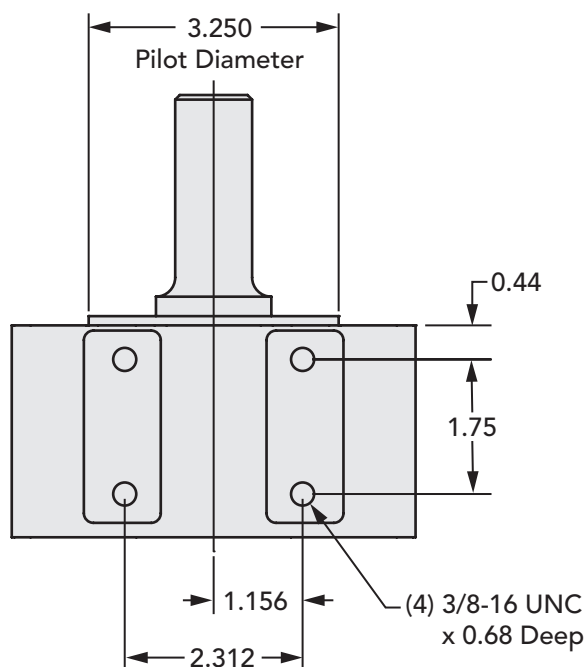
## Input End View



## Side View



## Bottom View

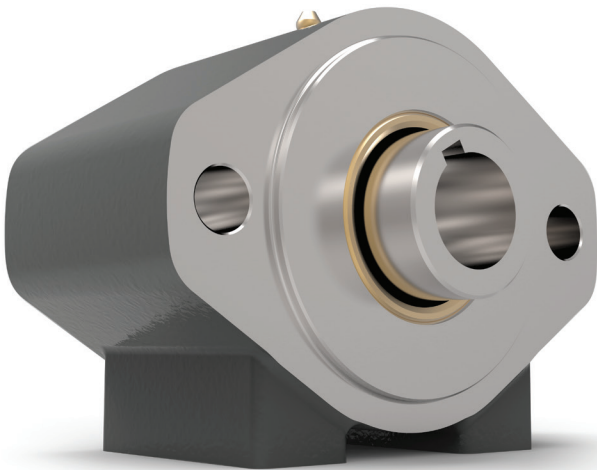


## How to Order

### Standard 210 Series Models

| Part Number | Output Shaft - Keyway | Input Bore - Keyway  |
|-------------|-----------------------|----------------------|
| 210         | 1" - 1/4 x 1/8        | 1" - 1/4 x 1/8       |
| 210-DP      | 1" - 1/4 x 1/8        | 1" - 1/4 x 1/8       |
| 210-9S      | 1" - 1/4 x 1/8        | 9 Tooth 16/32 Spline |
| 210-9S-DP   | 1" - 1/4 x 1/8        | 9 Tooth 16/32 Spline |
| 210-10      | 1" - 1/4 x 1/8        | 5/8" - 5/32 x 5/64   |
| 210-10-DP   | 1" - 1/4 x 1/8        | 5/8" - 5/32 x 5/64   |
| 210-12      | 1" - 1/4 x 1/8        | 3/4" - 3/16 x 3/32   |
| 210-12-DP   | 1" - 1/4 x 1/8        | 3/4" - 3/16 x 3/32   |

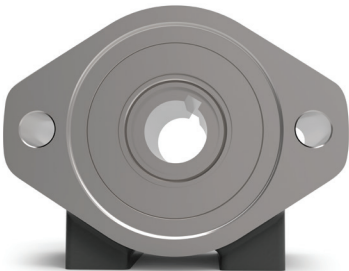
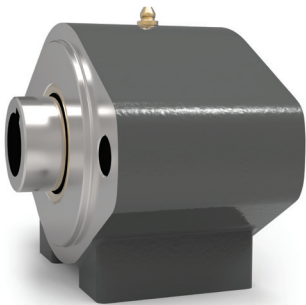
Note: Part numbers with -DP on the end call out a Deep pilot option.  
Standard pilot depth is 0.125" and the Deep pilot depth is 0.250"



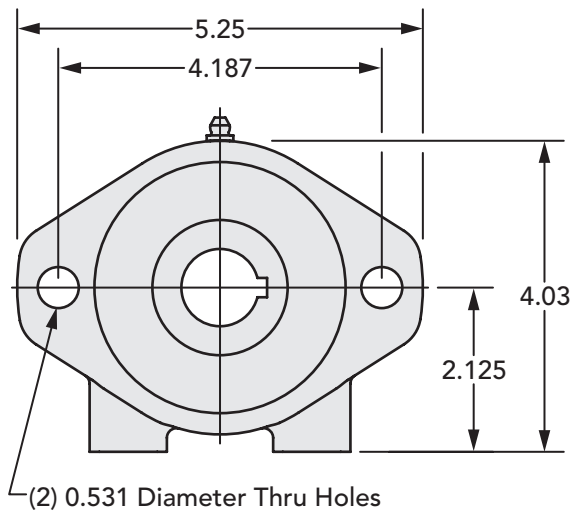
**Features**

- SAE A 2-bolt mounting
- Deep Groove Ball Bearings
- May be either Face-mounted or Foot-mounted
- Provides a sturdy mounting base for the motor or pump
- Supports heavy radial and axial loads - protecting the hydraulic motor or pump
- Reduces downtime and maintenance costs
- Protects pump or motor shaft seal from harmful contaminants

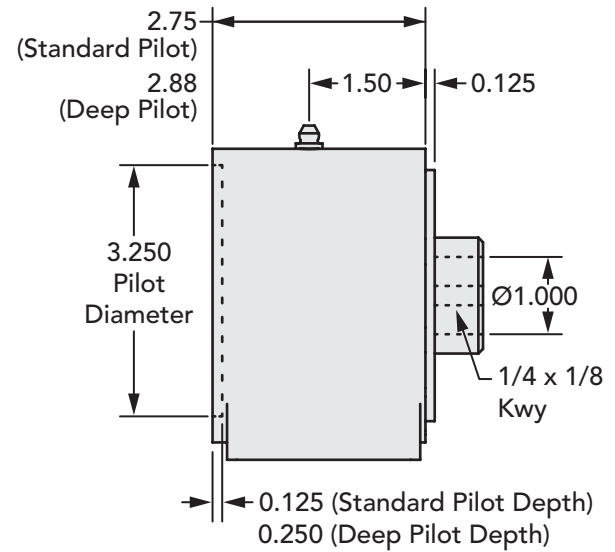
| 210F Series Data                                   |                                                                    |
|----------------------------------------------------|--------------------------------------------------------------------|
| Input Standard                                     | SAE A 2-bolt                                                       |
| Input Pilot Diameter                               | 3.250"                                                             |
| Input Pilot Depth                                  | (standard housing) 0.125"<br>(deep pilot option) 0.250"            |
| Input Pilot Sealing Method                         | Buna-N Gasket                                                      |
| Input Bore Diameter and Depth                      | 1" through-bore                                                    |
| Output Shaft Diameter                              | 1" through-bore                                                    |
| Output Shaft Keyway                                | 1/4" x 1/8" keyway entire length of bore                           |
| Output Shaft Length                                | 0.62" extension                                                    |
| Output Shaft Seal Type                             | Double-lip with Garter Spring                                      |
| Output Pilot Diameter                              | 3.250"                                                             |
| Output Pilot Height                                | 0.120"                                                             |
| Shaft Material                                     | 1144 Stressproof Steel                                             |
| Bearing Type                                       | Deep Groove Ball Bearings                                          |
| Standard Lubrication Method                        | Grease                                                             |
| Optional Lubrication Methods                       | Please Consult Factory                                             |
| Grease Fitting                                     | (1) Standard Zerk Fitting                                          |
| Grease Capacity                                    | Minimum 0.5 oz.<br>Maximum 1.0 oz.                                 |
| Grease Type (recommended for typical applications) | NLGI #2                                                            |
| Recommended Grease Base                            | Lithium                                                            |
| Standard Mounting Orientation                      | Shaft Horizontal - Consult Factory for other Mounting Orientations |
| Maximum Speed Without Modification                 | 3800 RPM                                                           |
| Housing Material                                   | Cast Iron                                                          |
| Housing Feet - Threaded Holes                      | (4) 3/8"-16 UNC x 0.68" deep                                       |
| Housing Grease Ports                               | Press-fit Zerk Fitting                                             |
| Unit Weight                                        | 10 lbs                                                             |



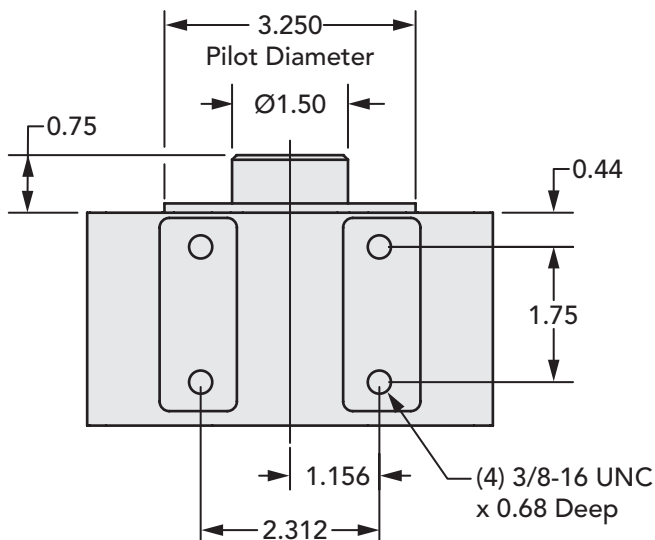
## Input End View



## Side View



## Bottom View

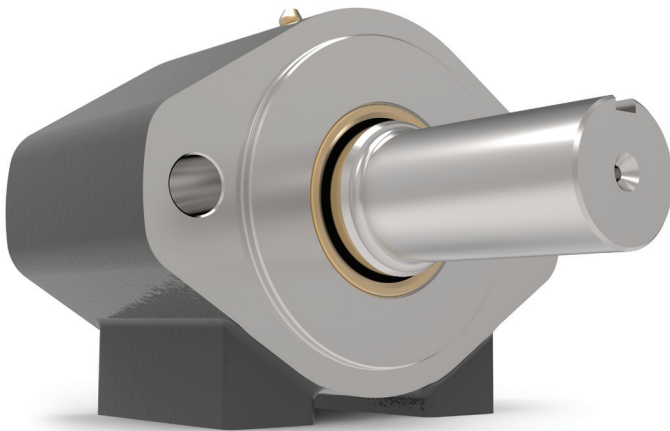


## How to Order

### Standard 210F Series Models

| Part Number | Output Shaft - Keyway | Input Bore - Keyway |
|-------------|-----------------------|---------------------|
| 210F        | 1" bore - 1/4 x 1/8   | 1" - 1/4 x 1/8      |
| 210F-DP     | 1" bore - 1/4 x 1/8   | 1" - 1/4 x 1/8      |

Note: Part numbers with -DP on the end call out a Deep pilot option.  
Standard pilot depth is 0.125" and the Deep pilot option is 0.250"

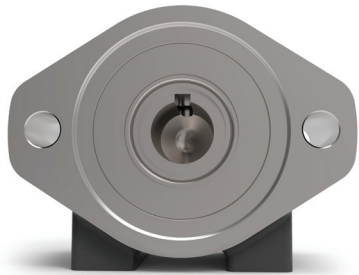
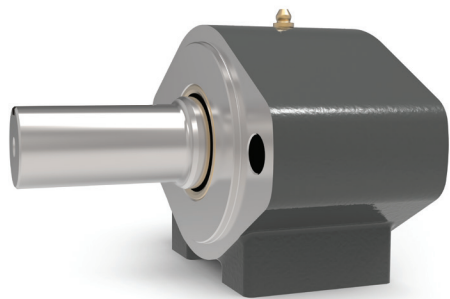


### Features

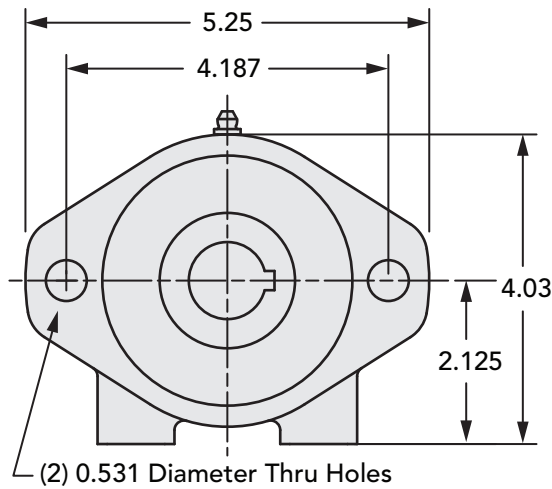
- SAE A 2-bolt mounting
- Deep Groove Ball Bearings
- May be either Face-mounted or Foot-mounted
- Provides a sturdy mounting base for the motor or pump
- Supports heavy radial and axial loads - protecting the hydraulic motor or pump
- Reduces downtime and maintenance costs
- Protects pump or motor shaft seal from harmful contaminants

#### 212k Series Data

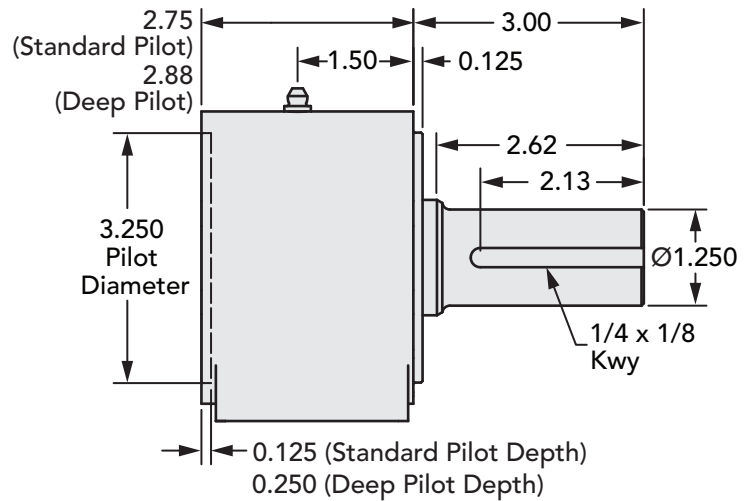
|                                                    |                                                                    |
|----------------------------------------------------|--------------------------------------------------------------------|
| Input Standard                                     | SAE A 2-bolt                                                       |
| Input Pilot Diameter                               | 3.250"                                                             |
| Input Pilot Depth                                  | (standard housing) 0.125"<br>(deep pilot option) 0.250"            |
| Input Pilot Sealing Method                         | Buna-N Gasket                                                      |
| Input Bore Diameter and Depth                      | 1" keyed - bore depth is 2.31"                                     |
| Output Shaft Diameter                              | 1-1/4"                                                             |
| Output Shaft Keyway                                | 1/4" x 1/8" keyway                                                 |
| Output Shaft Keyway Length                         | 2.13"                                                              |
| Output Shaft Length                                | 2.87"                                                              |
| Output Shaft Seal Type                             | Double-lip with Garter Spring                                      |
| Output Pilot Diameter                              | 3.250"                                                             |
| Output Pilot Height                                | 0.120"                                                             |
| Shaft Material                                     | 1144 Stressproof Steel                                             |
| Bearing Type                                       | Deep Groove Ball Bearings                                          |
| Standard Lubrication Method                        | Grease                                                             |
| Optional Lubrication Methods                       | Please Consult Factory                                             |
| Grease Fitting                                     | (1) Standard Zerk Fitting                                          |
| Grease Capacity                                    | Minimum 0.5 oz.<br>Maximum 1.0 oz.                                 |
| Grease Type (recommended for typical applications) | NLGI #2                                                            |
| Recommended Grease Base                            | Lithium                                                            |
| Standard Mounting Orientation                      | Shaft Horizontal - Consult Factory for other Mounting Orientations |
| Maximum Speed Without Modification                 | 3800 RPM                                                           |
| Housing Material                                   | Cast Iron                                                          |
| Housing Feet - Threaded Holes                      | (4) 3/8"-16 UNC x 0.68" deep                                       |
| Housing Grease Ports                               | Press-fit Zerk Fitting                                             |
| Unit Weight                                        | 10 lbs                                                             |



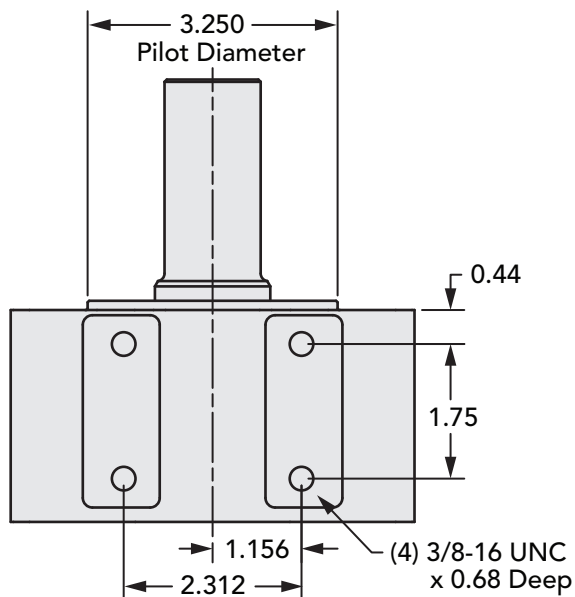
## Input End View



## Side View



## Bottom View

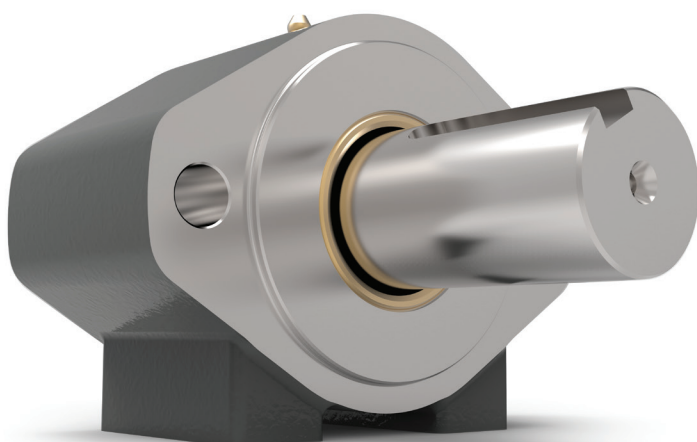


## How to Order

### Standard 212k Series Models

| Part Number | Output Shaft - Keyway | Input Bore - Keyway |
|-------------|-----------------------|---------------------|
| 212k        | 1-1/4" - 1/4 x 1/8    | 1" - 1/4 x 1/8      |
| 212k-DP     | 1-1/4" - 1/4 x 1/8    | 1" - 1/4 x 1/8      |

Note: Part numbers with -DP on the end call out a Deep pilot option.  
Standard pilot depth is 0.125" and the Deep pilot depth is 0.250"

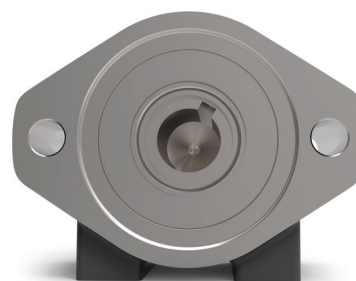
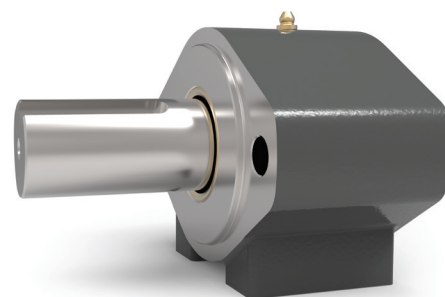


## Features

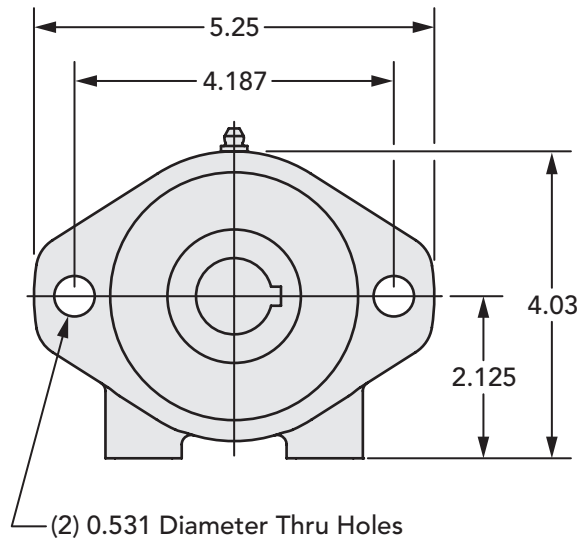
- SAE A 2-bolt mounting
- Deep Groove Ball Bearings
- May be either Face-mounted or Foot-mounted
- Provides a sturdy mounting base for the motor or pump
- Supports heavy radial and axial loads - protecting the hydraulic motor or pump
- Reduces downtime and maintenance costs
- Protects pump or motor shaft seal from harmful contaminants

### 215 Series Data

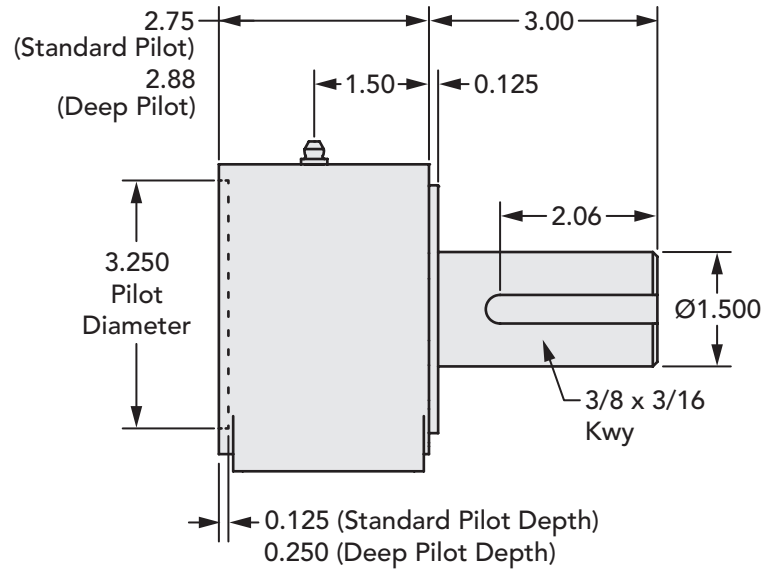
|                                                    |                                                                    |
|----------------------------------------------------|--------------------------------------------------------------------|
| Input Standard                                     | SAE A 2-bolt                                                       |
| Input Pilot Diameter                               | 3.250"                                                             |
| Input Pilot Depth                                  | (standard housing) 0.125"<br>(deep pilot option) 0.250"            |
| Input Pilot Sealing Method                         | Buna-N Gasket                                                      |
| Input Bore Diameter and Depth                      | 1" keyed - bore depth is 2.31"<br>3/4" keyed - bore depth is 2.81" |
| Output Shaft Diameter                              | 1-1/2"                                                             |
| Output Shaft Keyway                                | 3/8" x 3/16" keyway                                                |
| Output Shaft Keyway Length                         | 2.06"                                                              |
| Output Shaft Length                                | 2.87"                                                              |
| Output Shaft Seal Type                             | Double-lip with Garter Spring                                      |
| Output Pilot Diameter                              | 3.250"                                                             |
| Output Pilot Height                                | 0.120"                                                             |
| Shaft Material                                     | 1144 Stressproof Steel                                             |
| Bearing Type                                       | Deep Groove Ball Bearings                                          |
| Standard Lubrication Method                        | Grease                                                             |
| Optional Lubrication Methods                       | Please Consult Factory                                             |
| Grease Fitting                                     | (1) Standard Zerk Fitting                                          |
| Grease Capacity                                    | Minimum 0.5 oz.<br>Maximum 1.0 oz.                                 |
| Grease Type (recommended for typical applications) | NLGI #2                                                            |
| Recommended Grease Base                            | Lithium                                                            |
| Standard Mounting Orientation                      | Shaft Horizontal - Consult Factory for other Mounting Orientations |
| Maximum Speed Without Modification                 | 3800 RPM                                                           |
| Housing Material                                   | Cast Iron                                                          |
| Housing Feet - Threaded Holes                      | (4) 3/8"-16 UNC x 0.68" deep                                       |
| Housing Grease Ports                               | Press-fit Zerk Fitting                                             |
| Unit Weight                                        | 10 lbs                                                             |



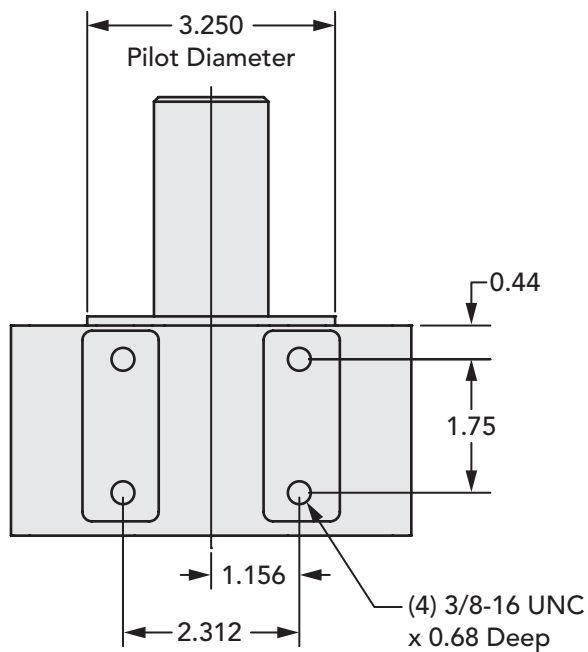
## Input End View



## Side View



## Bottom View

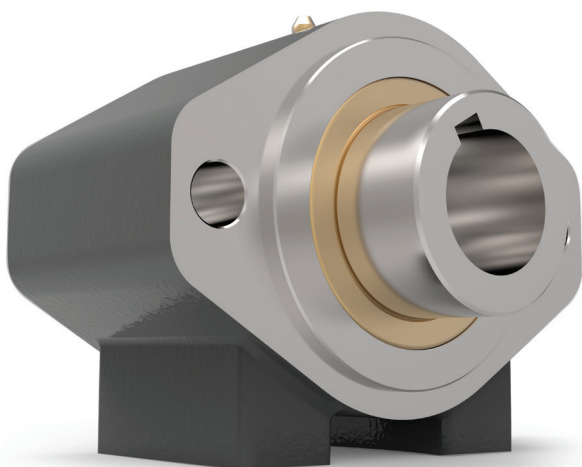


## How to Order

### Standard 215 Series Models

| Part Number | Output Shaft - Keyway | Input Bore - Keyway |
|-------------|-----------------------|---------------------|
| 215         | 1-1/2" - 3/8 x 3/16   | 1" - 1/4 x 1/8      |
| 215-DP      | 1-1/2" - 3/8 x 3/16   | 1" - 1/4 x 1/8      |
| 215-12      | 1-1/2" - 3/8 x 3/16   | 3/4" - 3/16 x 3/32  |
| 215-12-DP   | 1-1/2" - 3/8 x 3/16   | 3/4" - 3/16 x 3/32  |

Note: Part numbers with -DP on the end call out a Deep pilot option.  
Standard pilot depth is 0.125" and the Deep pilot option is 0.250"

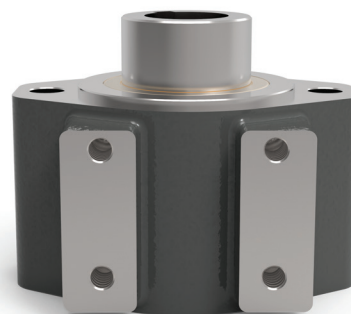
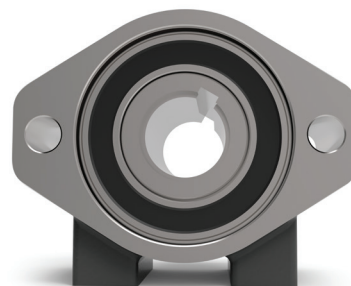
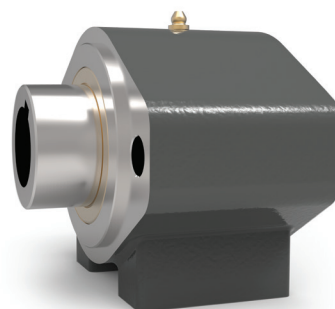


## Features

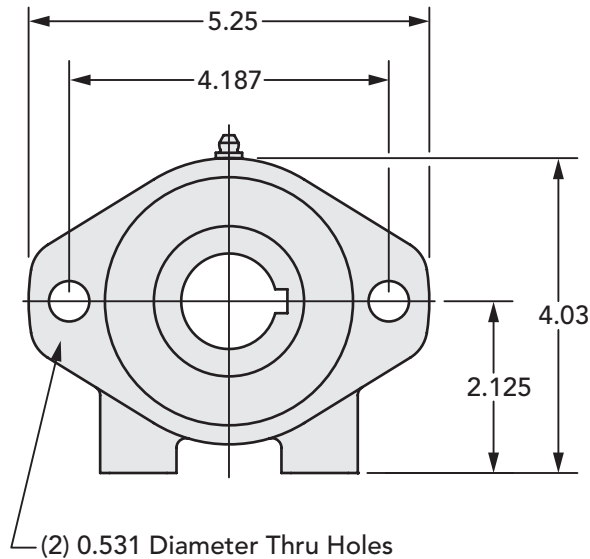
- SAE A 2-bolt mounting
- Heavy Duty Deep Groove Ball Bearings
- May be either Face-mounted or Foot-mounted
- Provides a sturdy mounting base for the motor or pump
- Supports heavy radial and axial loads - protecting the hydraulic motor or pump
- Reduces downtime and maintenance costs
- Protects pump or motor shaft seal from harmful contaminants

### 300F Series Data

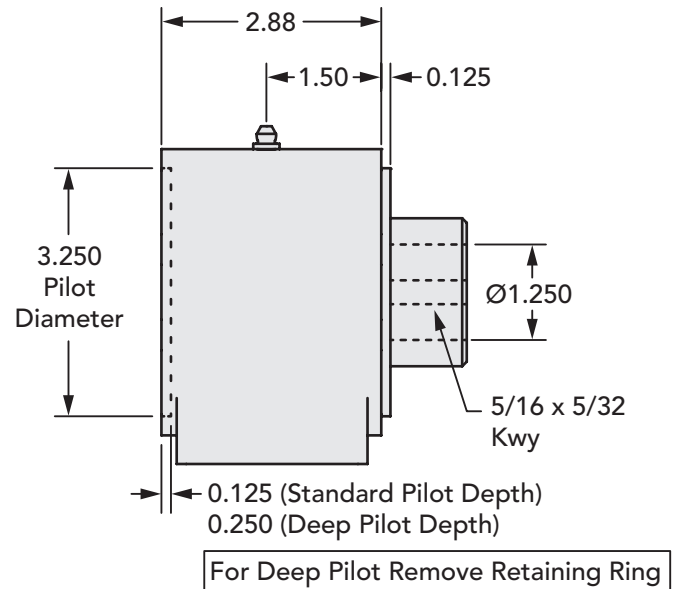
|                                                    |                                                                    |
|----------------------------------------------------|--------------------------------------------------------------------|
| Input Standard                                     | SAE A 2-bolt                                                       |
| Input Pilot Diameter                               | 3.250"                                                             |
| Input Pilot Depth                                  | (standard housing) 0.125"<br>(deep pilot option) 0.250"            |
| Input Pilot Sealing Method                         | Buna-N Gasket                                                      |
| Input Bore Diameter and Depth                      | 1-1/4" through-bore                                                |
| Output Shaft Diameter                              | 1-1/4" through-bore                                                |
| Output Shaft Keyway                                | 5/16" x 5/32" keyway the entire length of the bore                 |
| Output Shaft Length                                | 1.00" extension                                                    |
| Output Shaft Seal Type                             | Double-lip with Garter Spring                                      |
| Output Pilot Diameter                              | 3.250"                                                             |
| Output Pilot Height                                | 0.125"                                                             |
| Shaft Material                                     | 1144 Stressproof Steel                                             |
| Bearing Type                                       | Deep Groove Ball Bearings                                          |
| Standard Lubrication Method                        | Grease                                                             |
| Optional Lubrication Methods                       | Please Consult Factory                                             |
| Grease Fitting                                     | (1) Standard Zerk Fitting                                          |
| Grease Capacity                                    | Minimum 0.7 oz.<br>Maximum 1.4 oz.                                 |
| Grease Type (recommended for typical applications) | NLGI #2                                                            |
| Recommended Grease Base                            | Lithium                                                            |
| Standard Mounting Orientation                      | Shaft Horizontal - Consult Factory for other Mounting Orientations |
| Maximum Speed Without Modification                 | 3100 RPM                                                           |
| Housing Material                                   | Cast Iron                                                          |
| Housing Feet - Threaded Holes                      | (4) 3/8"-16 UNC x 0.68" deep                                       |
| Housing Grease Ports                               | Press-fit Zerk Fitting                                             |
| Unit Weight                                        | 10 lbs                                                             |



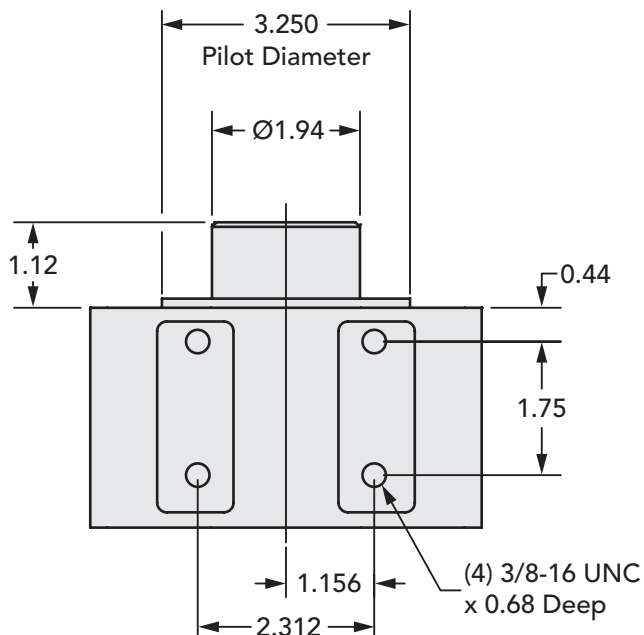
## Input End View



## Side View



## Bottom View

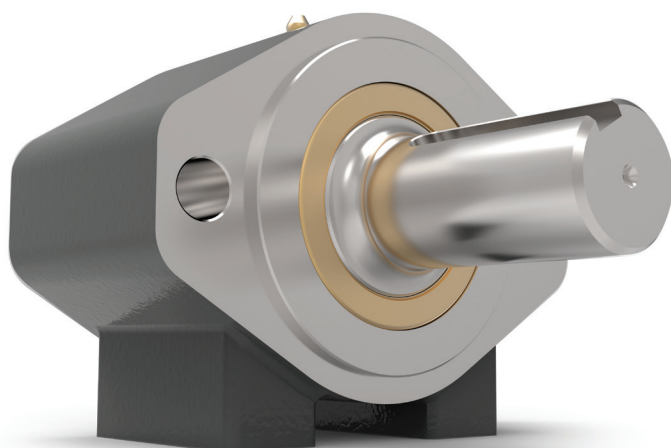


## How to Order

### Standard 300F Series Models

| Part Number | Output Shaft - Keyway     | Input Bore - Keyway  |
|-------------|---------------------------|----------------------|
| 300F        | 1-1/4" bore - 5/16 x 5/32 | 1-1/4" - 5/16 x 5/32 |
| 300F-DP     | 1-1/4" bore - 5/16 x 5/32 | 1-1/4" - 5/16 x 5/32 |

Note: Part numbers with -DP on the end call out a Deep pilot option.  
Standard pilot depth is 0.125" and the Deep pilot option is 0.250"

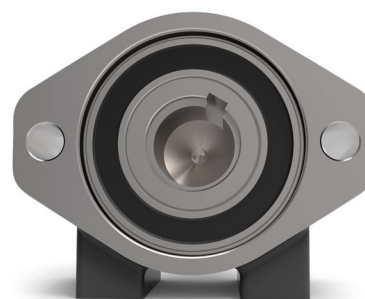
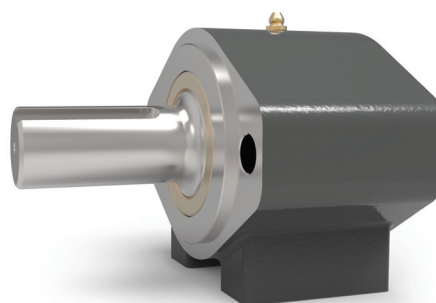


## Features

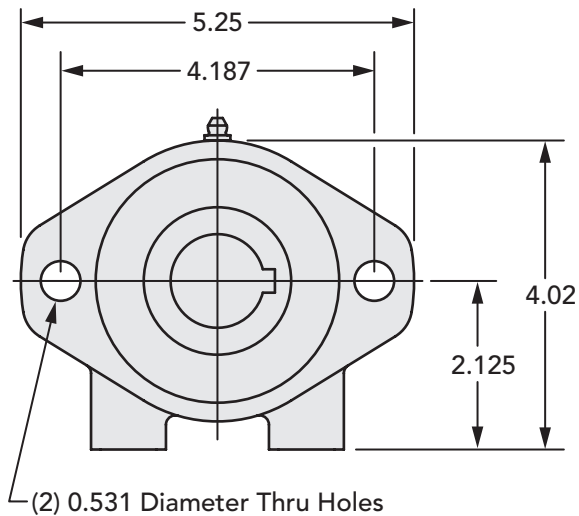
- SAE A 2-bolt mounting
- Heavy Duty Deep Groove Ball Bearings
- May be either Face-mounted or Foot-mounted
- Provides a sturdy mounting base for the motor or pump
- Supports heavy radial and axial loads - protecting the hydraulic motor or pump
- Reduces downtime and maintenance costs
- Protects pump or motor shaft seal from harmful contaminants

### 312 Series Data

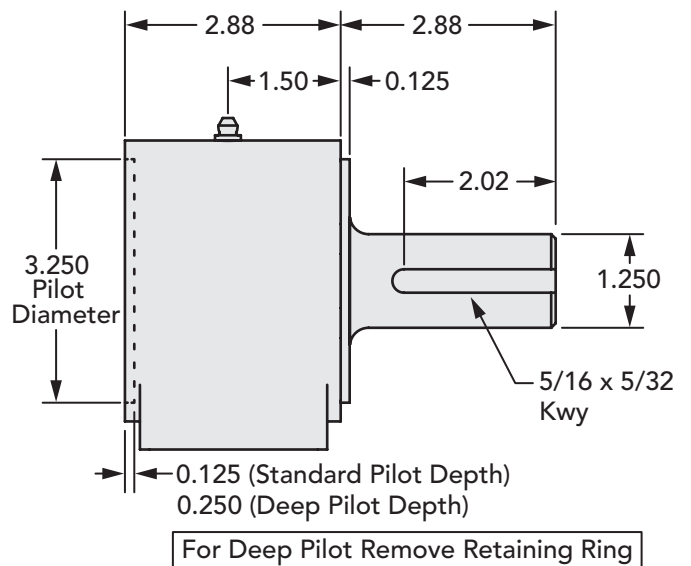
|                                                    |                                                                    |
|----------------------------------------------------|--------------------------------------------------------------------|
| Input Standard                                     | SAE A 2-bolt                                                       |
| Input Pilot Diameter                               | 3.250"                                                             |
| Input Pilot Depth                                  | (standard housing) 0.125"<br>(deep pilot option) 0.250"            |
| Input Pilot Sealing Method                         | Buna-N Gasket                                                      |
| Input Bore Diameter and Depth                      | 1-1/4" keyed - bore depth is 2.37 inches                           |
| Output Shaft Diameter                              | 1-1/4"                                                             |
| Output Shaft Keyway                                | 5/16" x 5/32" keyway                                               |
| Output Shaft Keyway Length                         | 2.02"                                                              |
| Output Shaft Length                                | 2.75"                                                              |
| Output Shaft Seal Type                             | Double-lip with Garter Spring                                      |
| Output Pilot Diameter                              | 3.250"                                                             |
| Output Pilot Height                                | 0.125"                                                             |
| Shaft Material                                     | 1144 Stressproof Steel                                             |
| Bearing Type                                       | Deep Groove Ball Bearings                                          |
| Standard Lubrication Method                        | Grease                                                             |
| Optional Lubrication Methods                       | Please Consult Factory                                             |
| Grease Fitting                                     | (1) Standard Zerk Fitting                                          |
| Grease Capacity                                    | Minimum 0.7 oz.<br>Maximum 1.4 oz.                                 |
| Grease Type (recommended for typical applications) | NLGI #2                                                            |
| Recommended Grease Base                            | Lithium                                                            |
| Standard Mounting Orientation                      | Shaft Horizontal - Consult Factory for other Mounting Orientations |
| Maximum Speed Without Modification                 | 3100 RPM                                                           |
| Housing Material                                   | Cast Iron                                                          |
| Housing Feet - Threaded Holes                      | (4) 3/8"-16 UNC x 0.68" deep                                       |
| Housing Grease Ports                               | Press-fit Zerk Fitting                                             |
| Unit Weight                                        | 10 lbs                                                             |



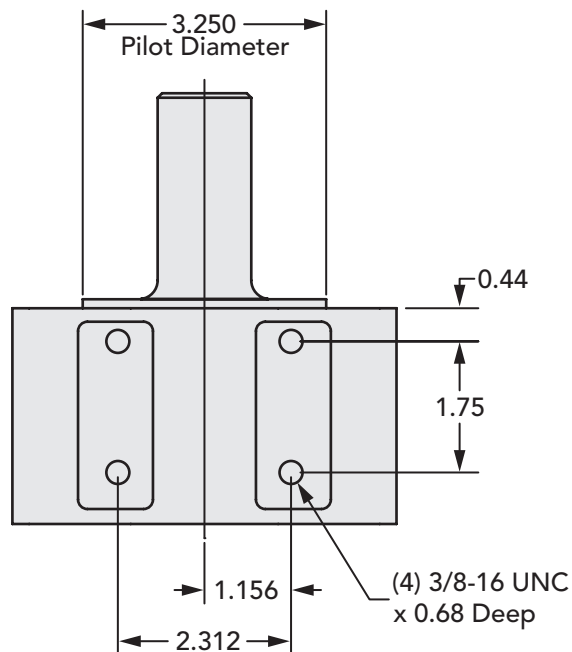
## Input End View



## Side View



## Bottom View

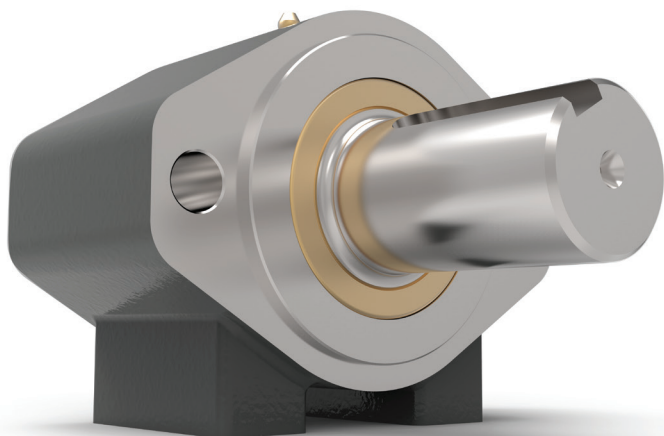


## How to Order

### Standard 312 Series Models

| Part Number | Output Shaft - Keyway | Input Bore - Keyway  |
|-------------|-----------------------|----------------------|
| 312         | 1-1/4" - 5/16 x 5/32  | 1-1/4" - 5/16 x 5/32 |
| 312-DP      | 1-1/4" - 5/16 x 5/32  | 1-1/4" - 5/16 x 5/32 |

Note: Part numbers with -DP on the end call out a Deep pilot option.  
Standard pilot depth is 0.125" and the Deep pilot option is 0.250"

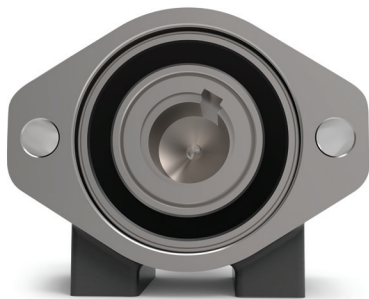
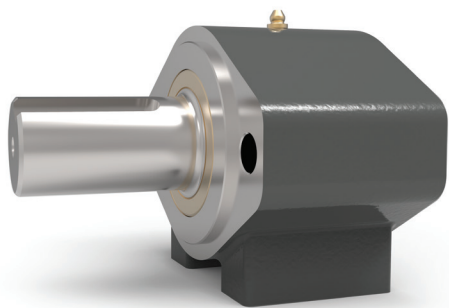


## Features

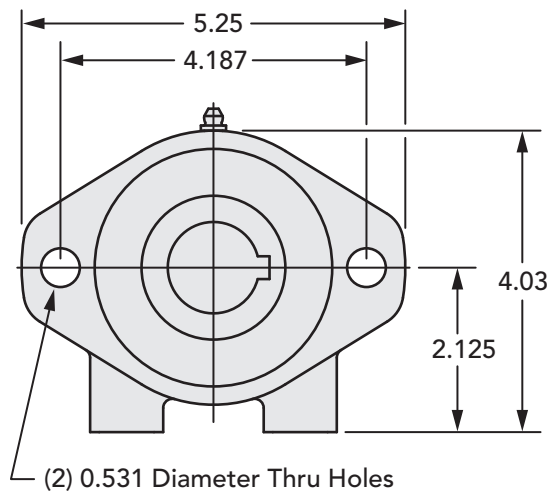
- SAE A 2-bolt mounting
- Heavy Duty Deep Groove Ball Bearings
- May be either Face-mounted or Foot-mounted
- Provides a sturdy mounting base for the motor or pump
- Supports heavy radial and axial loads - protecting the hydraulic motor or pump
- Reduces downtime and maintenance costs
- Protects pump or motor shaft seal from harmful contaminants

### 315 Series Data

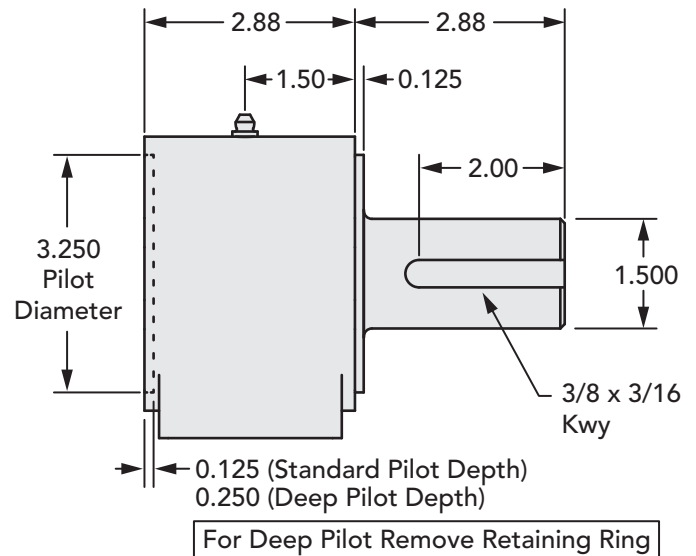
|                                                    |                                                                    |
|----------------------------------------------------|--------------------------------------------------------------------|
| Input Standard                                     | SAE A 2-bolt                                                       |
| Input Pilot Diameter                               | 3.250"                                                             |
| Input Pilot Depth                                  | (standard housing) 0.125"<br>(deep pilot option) 0.250"            |
| Input Pilot Sealing Method                         | Buna-N Gasket                                                      |
| Input Bore Diameter and Depth                      | 1-1/4" keyed - bore depth is 2.37 inches                           |
| Output Shaft Diameter                              | 1-1/2"                                                             |
| Output Shaft Keyway                                | 3/8" x 3/16" keyway                                                |
| Output Shaft Keyway Length                         | 2.00"                                                              |
| Output Shaft Length                                | 2.75"                                                              |
| Output Shaft Seal Type                             | Double-lip with Garter Spring                                      |
| Output Pilot Diameter                              | 3.250"                                                             |
| Output Pilot Height                                | 0.125"                                                             |
| Shaft Material                                     | 1144 Stressproof Steel                                             |
| Bearing Type                                       | Deep Groove Ball Bearings                                          |
| Standard Lubrication Method                        | Grease                                                             |
| Optional Lubrication Methods                       | Please Consult Factory                                             |
| Grease Fitting                                     | (1) Standard Zerk Fitting                                          |
| Grease Capacity                                    | Minimum 0.7 oz.<br>Maximum 1.4 oz.                                 |
| Grease Type (recommended for typical applications) | NLGI #2                                                            |
| Recommended Grease Base                            | Lithium                                                            |
| Standard Mounting Orientation                      | Shaft Horizontal - Consult Factory for other Mounting Orientations |
| Maximum Speed Without Modification                 | 3100 RPM                                                           |
| Housing Material                                   | Cast Iron                                                          |
| Housing Feet - Threaded Holes                      | (4) 3/8"-16 UNC x 0.68" deep                                       |
| Housing Grease Ports                               | Press-fit Zerk Fitting                                             |
| Unit Weight                                        | 10 lbs                                                             |



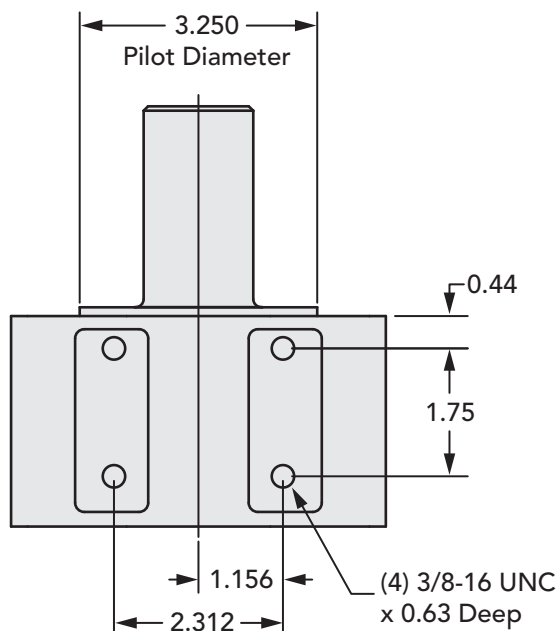
## Input End View



## Side View



## Bottom View

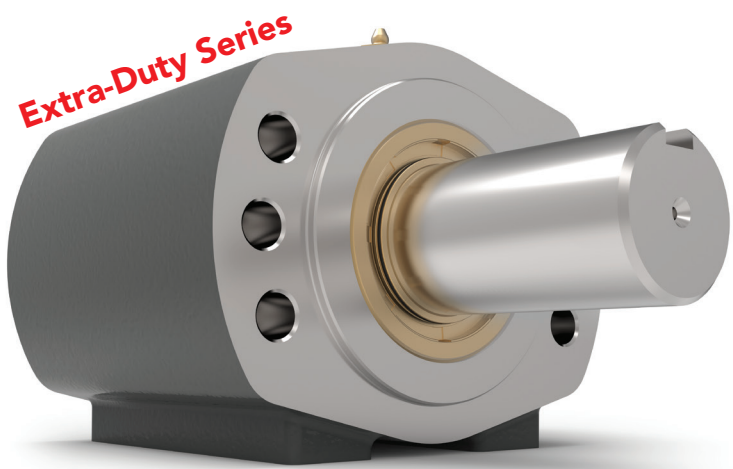


## How to Order

### Standard 315 Series Models

| Part Number | Output Shaft - Keyway | Input Bore - Keyway  |
|-------------|-----------------------|----------------------|
| 315         | 1-1/2" - 3/8 x 3/16   | 1-1/4" - 5/16 x 5/32 |
| 315-DP      | 1-1/2" - 3/8 x 3/16   | 1-1/4" - 5/16 x 5/32 |

Note: Part numbers with -DP on the end call out a Deep pilot option.  
Standard pilot depth is 0.125" and the Deep pilot option is 0.250"



### Features

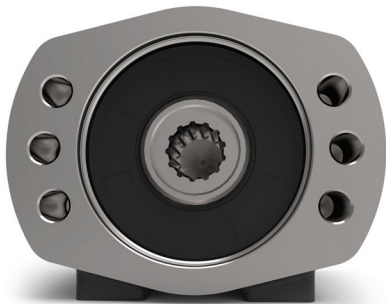
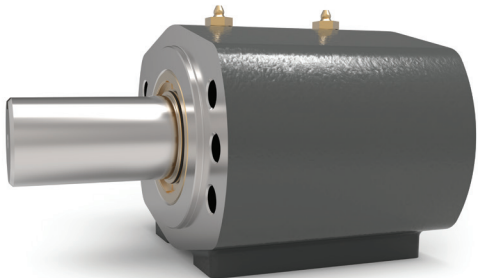
- SAE A 2-bolt or 4-bolt magneto mounting
- Heavy Duty Spherical Roller Bearings
- May be either Face-mounted or Foot-mounted
- Provides a sturdy mounting base for the motor or pump
- Supports heavy radial and axial loads - protecting the hydraulic motor or pump
- Reduces downtime and maintenance costs
- Protects pump or motor shaft seal from harmful contaminants

### Extra-Duty Series Enhancements:

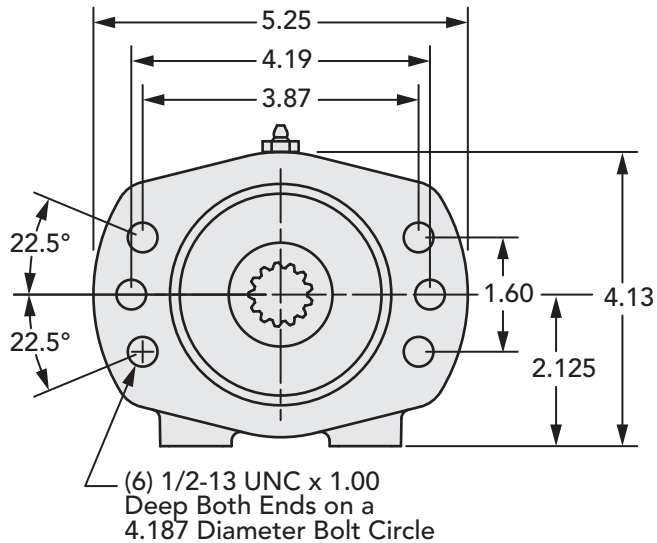
- Extended Housing
- Heat-Treated Shaft
- O-Ring Input Seal
- Spherical Roller Bearings
- Dual NPT Grease Zerk
- Double-Primary Lip Output Seal

### 350 Series Data

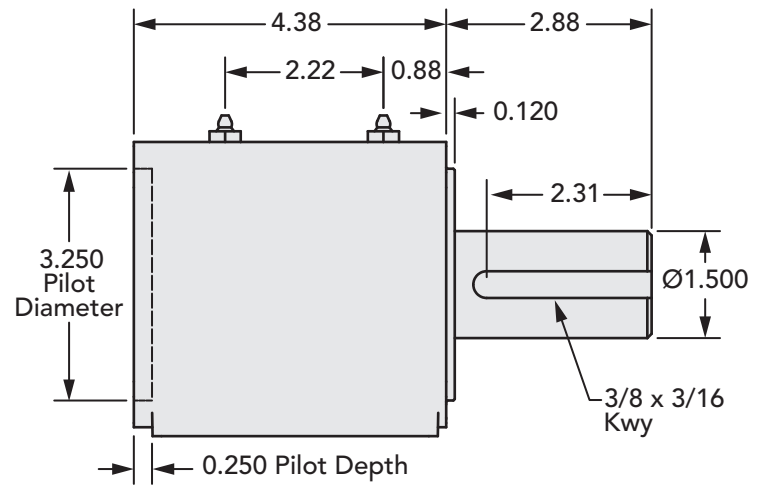
|                                                    |                                                                                                        |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Input Standard                                     | SAE A 2-bolt or 4-bolt Magneto mount                                                                   |
| Input Pilot Diameter                               | 3.250"                                                                                                 |
| Input Pilot Depth                                  | 0.250"                                                                                                 |
| Input Pilot Sealing Method                         | O-ring                                                                                                 |
| Input Bore Diameter and Depth                      | 13 tooth 16/32 Spline - bore depth is 2.28 inches<br>14 tooth 12/24 Spline - bore depth is 2.28 inches |
| Output Shaft Diameter                              | 1-1/2"                                                                                                 |
| Output Shaft Keyway                                | 3/8" x 3/16" keyway                                                                                    |
| Output Shaft Keyway Length                         | 2.50"                                                                                                  |
| Output Shaft Length                                | 2.75"                                                                                                  |
| Output Shaft Seal Type                             | Double Primary Lip Seal With Garter Springs                                                            |
| Output Pilot Diameter                              | 3.250"                                                                                                 |
| Output Pilot Height                                | 0.125"                                                                                                 |
| Shaft Material                                     | 8620 steel - Heat-treated                                                                              |
| Bearing Type                                       | Spherical Roller Bearing                                                                               |
| Standard Lubrication Method                        | Grease                                                                                                 |
| Optional Lubrication Methods                       | Please Consult Factory                                                                                 |
| Grease Fittings                                    | (2) Standard Zerk Fitting                                                                              |
| Grease Capacity                                    | Minimum 1.2 oz. (0.6 oz. per grease fitting)<br>Maximum 2.2 oz. (1.1 oz. per grease fitting)           |
| Grease Type (recommended for typical applications) | NLGI #2                                                                                                |
| Recommended Grease Base                            | Lithium                                                                                                |
| Standard Mounting Orientation                      | Shaft Horizontal - Consult Factory for other Mounting Orientations                                     |
| Maximum Speed Without Modification                 | 3300 RPM                                                                                               |
| Housing Material                                   | Cast Iron                                                                                              |
| Housing Feet - Threaded Holes                      | (4) 3/8"-16 UNC x 0.68" deep                                                                           |
| Housing Grease Ports                               | (2) 1/4-18 NPT                                                                                         |
| Unit Weight                                        | 18 lbs                                                                                                 |



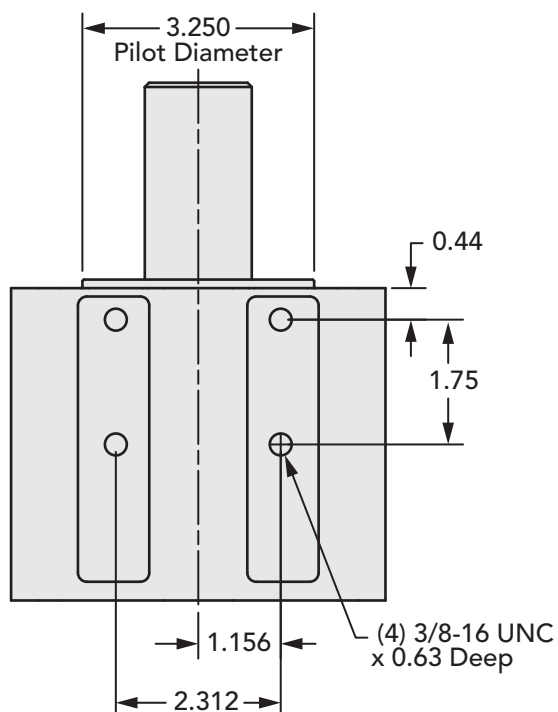
## Input End View



## Side View



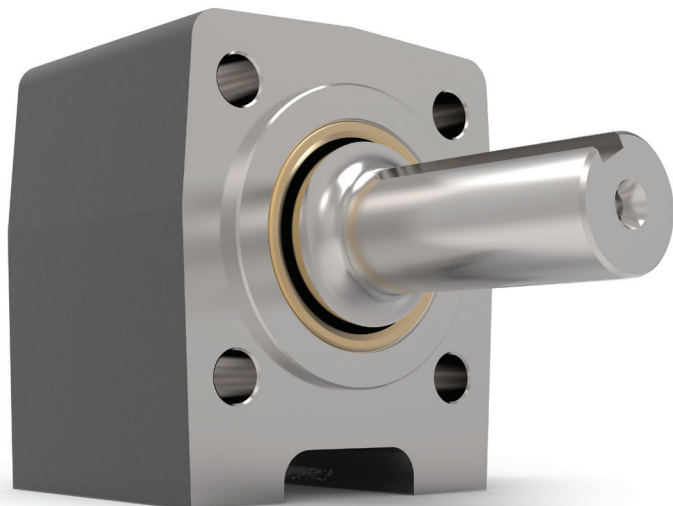
## Bottom View



## How to Order

### Standard 350 Series Models

| Part Number | Output Shaft - Keyway | Input Bore - Keyway   |
|-------------|-----------------------|-----------------------|
| 350-13S     | 1-1/2" - 3/8 x 3/16   | 13 Tooth 16/32 Spline |
| 350-14S     | 1-1/2" - 3/8 x 3/16   | 14 Tooth 12/24 Spline |

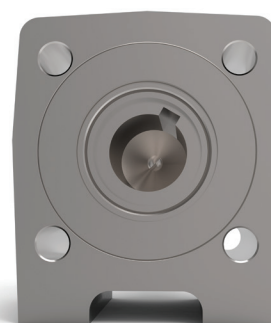
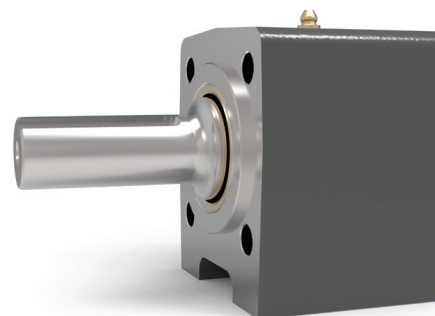


## Features

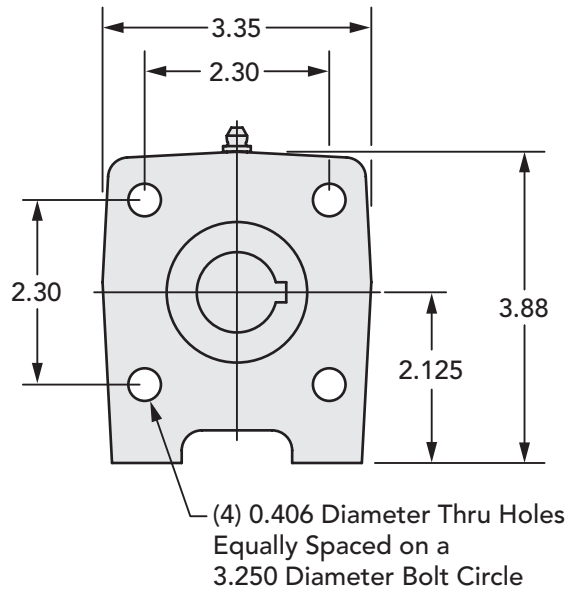
- Non-SAE 4-bolt mounting
- Deep Groove Ball Bearings
- May be either Face-mounted or Foot-mounted
- Provides a sturdy mounting base for the motor or pump
- Supports heavy radial and axial loads - protecting the hydraulic motor or pump
- Reduces downtime and maintenance costs
- Protects pump or motor shaft seal from harmful contaminants

### 410 Series Data

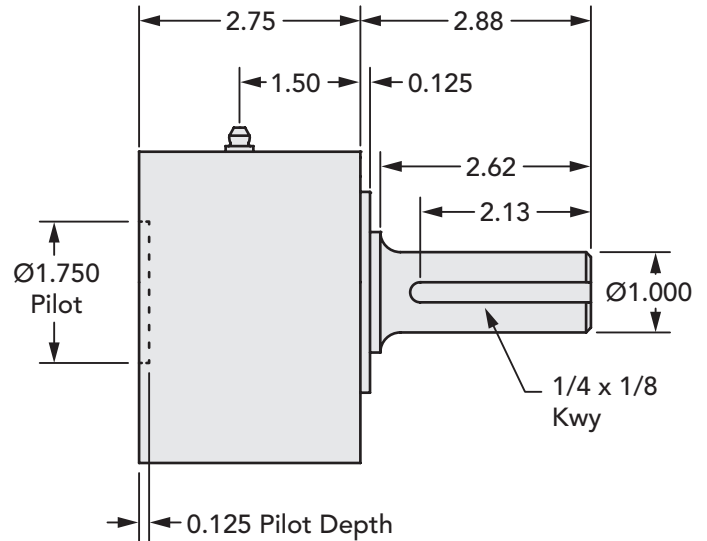
|                                                    |                                                                      |
|----------------------------------------------------|----------------------------------------------------------------------|
| Input Standard                                     | Non- SAE 4-bolt mount (designed to fit a popular LSHT Geroler motor) |
| Input Pilot Diameter                               | 1.750"                                                               |
| Input Pilot Depth                                  | 0.125"                                                               |
| Input Pilot Sealing Method                         | Fiber Gasket                                                         |
| Input Bore Diameter and Depth                      | 1" keyed - bore depth is 2.18"                                       |
| Output Shaft Diameter                              | 1"                                                                   |
| Output Shaft Keyway                                | 1/4" x 1/8" keyway                                                   |
| Output Shaft Keyway Length                         | 2.13"                                                                |
| Output Shaft Length                                | 2.87"                                                                |
| Output Pilot Diameter                              | 2.500"                                                               |
| Output Pilot Height                                | 0.125"                                                               |
| Shaft Material                                     | 1144 Stressproof Steel                                               |
| Bearing Type                                       | Deep Groove Ball Bearings                                            |
| Standard Lubrication Method                        | Grease                                                               |
| Optional Lubrication Methods                       | Please Consult Factory                                               |
| Grease Fitting                                     | (1) Standard Zerk Fitting                                            |
| Grease Capacity                                    | Minimum 0.4 oz.<br>Maximum 1.0 oz.                                   |
| Grease Type (recommended for typical applications) | NLGI #2                                                              |
| Recommended Grease Base                            | Lithium                                                              |
| Standard Mounting Orientation                      | Shaft Horizontal - Consult Factory for other Mounting Orientations   |
| Maximum Speed Without Modification                 | 3800 RPM                                                             |
| Housing Material                                   | Cast Iron                                                            |
| Housing Feet - Threaded Holes                      | (4) 3/8"-16 UNC x 0.68" deep                                         |
| Housing Grease Ports                               | Press-fit Zerk Fitting                                               |
| Unit Weight                                        | 10 lbs                                                               |



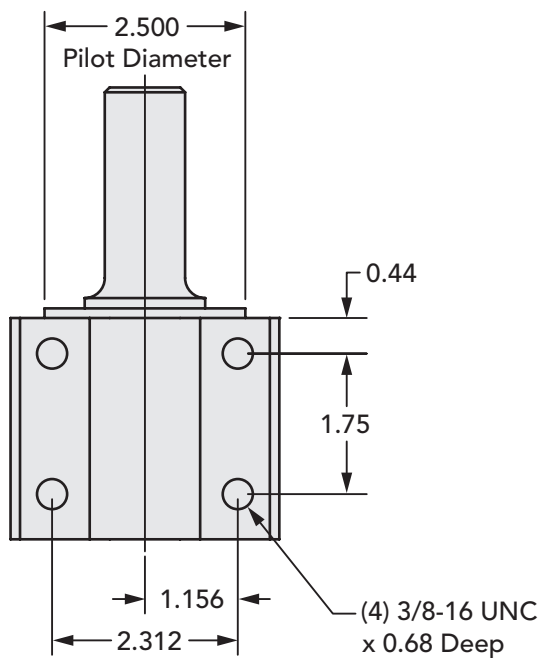
## Input End View



## Side View



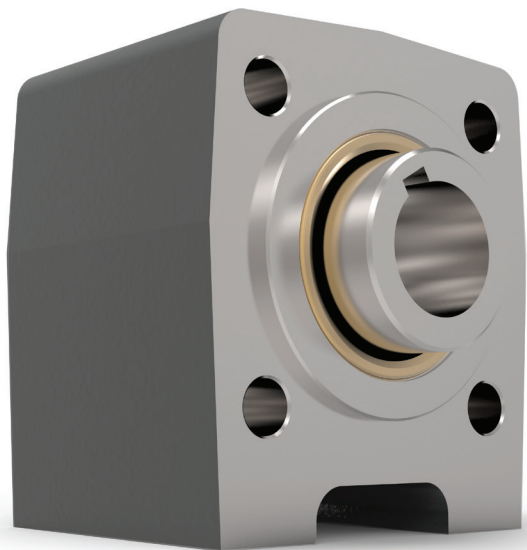
## Bottom View



## How to Order

### Standard 410 Series Models

| Part Number | Output Shaft - Keyway | Input Bore - Keyway |
|-------------|-----------------------|---------------------|
| 410         | 1" - 1/4 x 1/8        | 1" - 1/4 x 1/8      |

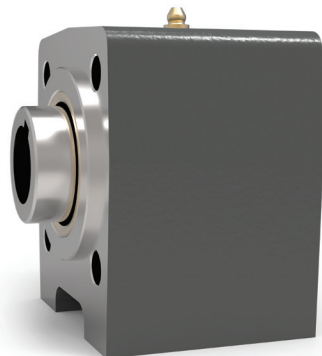


### Features

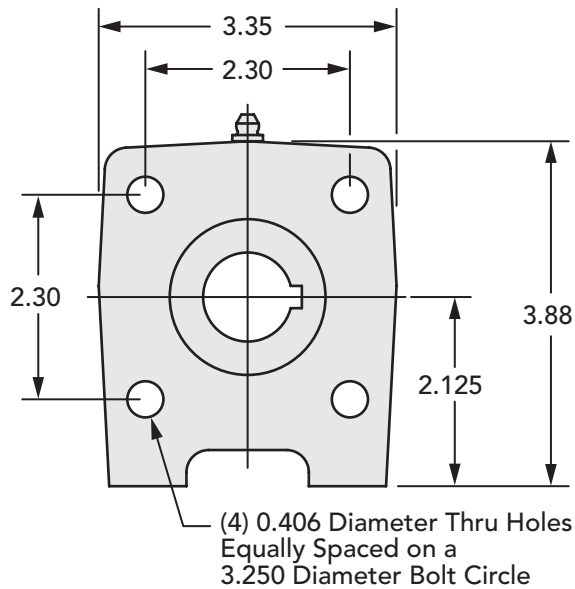
- Non-SAE 4-bolt mounting
- Deep Groove Ball Bearings
- May be either Face-mounted or Foot-mounted
- Provides a sturdy mounting base for the motor or pump
- Supports heavy radial and axial loads - protecting the hydraulic motor or pump
- Reduces downtime and maintenance costs
- Protects pump or motor shaft seal from harmful contaminants

#### 410F Series Data

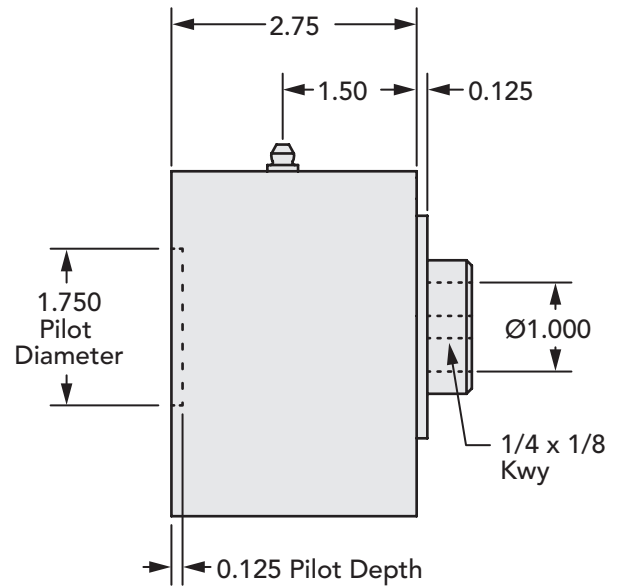
|                                                    |                                                                     |
|----------------------------------------------------|---------------------------------------------------------------------|
| Input Standard                                     | Non-SAE 4-bolt mount (designed to fit a popular LSHT Geroler motor) |
| Input Pilot Diameter                               | 1.750"                                                              |
| Input Pilot Depth                                  | 0.125"                                                              |
| Input Pilot Sealing Method                         | Fiber Gasket                                                        |
| Input Bore Diameter and Depth                      | 1" through-bore                                                     |
| Output Shaft Diameter                              | 1" through-bore                                                     |
| Output Shaft Keyway                                | 1/4" x 1/8" keyway the entire length of the bore                    |
| Output Shaft Length                                | 0.50" extension                                                     |
| Output Shaft Seal Type                             | Double-lip with Garter Spring                                       |
| Output Pilot Diameter                              | 2.500"                                                              |
| Output Pilot Height                                | 0.125"                                                              |
| Shaft Material                                     | 1144 Stressproof Steel                                              |
| Bearing Type                                       | Deep Groove Ball Bearings                                           |
| Standard Lubrication Method                        | Grease                                                              |
| Optional Lubrication Methods                       | Please Consult Factory                                              |
| Grease Fitting                                     | (1) Standard Zerk Fitting                                           |
| Grease Capacity                                    | Minimum 0.4 oz.<br>Maximum 1.0 oz.                                  |
| Grease Type (recommended for typical applications) | NLGI #2                                                             |
| Recommended Grease Base                            | Lithium                                                             |
| Standard Mounting Orientation                      | Shaft Horizontal - Consult Factory for other Mounting Orientations  |
| Maximum Speed Without Modification                 | 3800 RPM                                                            |
| Housing Material                                   | Cast Iron                                                           |
| Housing Feet - Threaded Holes                      | (4) 3/8"-16 UNC x 0.68" deep                                        |
| Housing Grease Ports                               | Press-fit Zerk Fitting                                              |
| Unit Weight                                        | 10 lbs                                                              |



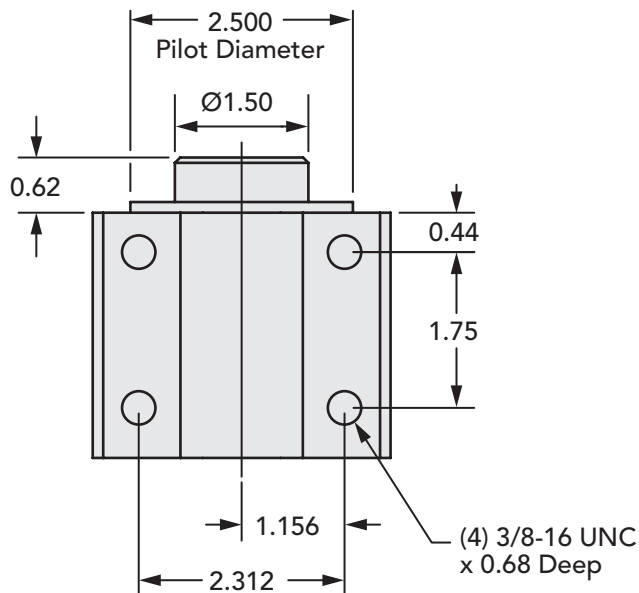
## Input End View



## Side View



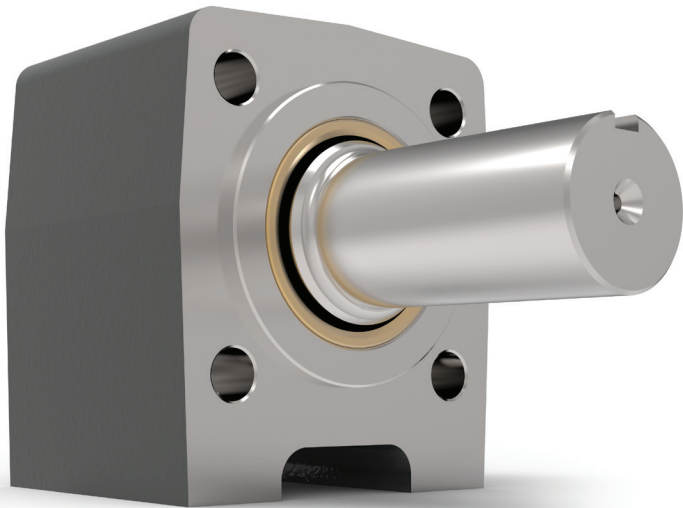
## Bottom View



## How to Order

### Standard 410F Series Models

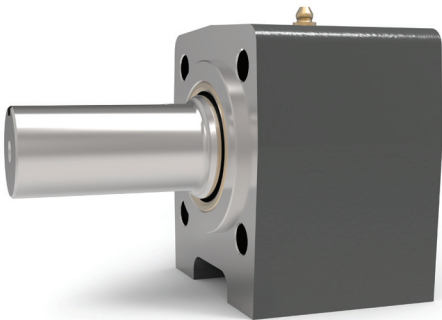
| Part Number | Output Shaft - Keyway | Input Bore - Keyway |
|-------------|-----------------------|---------------------|
| 410F        | 1" bore - 1/4 x 1/8   | 1" - 1/4 x 1/8      |



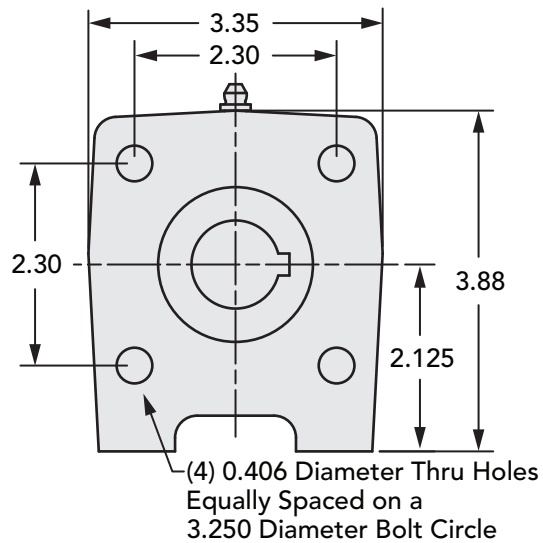
**Features**

- Non-SAE 4-bolt mounting
- Deep Groove Ball Bearings
- May be either Face-mounted or Foot-mounted
- Provides a sturdy mounting base for the motor or pump
- Supports heavy radial and axial loads - protecting the hydraulic motor or pump
- Reduces downtime and maintenance costs
- Protects pump or motor shaft seal from harmful contaminants

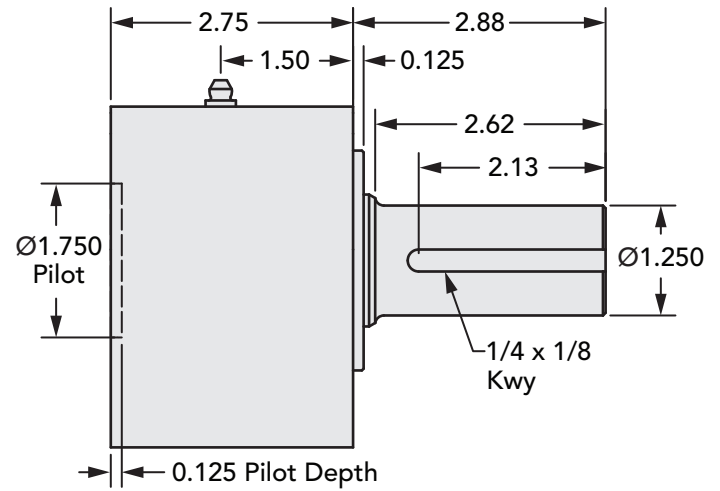
| 412k Series Data                                   |                                                                      |
|----------------------------------------------------|----------------------------------------------------------------------|
| Input Standard                                     | Non- SAE 4-bolt mount (designed to fit a popular LSHT Geroler motor) |
| Input Pilot Diameter                               | 1.750"                                                               |
| Input Pilot Depth                                  | 0.125"                                                               |
| Input Pilot Sealing Method                         | Fiber Gasket                                                         |
| Input Bore Diameter and Depth                      | 1" keyed - bore depth is 2.31"                                       |
| Output Shaft Diameter                              | 1-1/4"                                                               |
| Output Shaft Keyway                                | 1/4" x 1/8" keyway                                                   |
| Output Shaft Keyway Length                         | 2.13"                                                                |
| Output Shaft Length                                | 2.87"                                                                |
| Output Pilot Diameter                              | 2.500"                                                               |
| Output Pilot Height                                | 0.125"                                                               |
| Shaft Material                                     | 1144 Stressproof Steel                                               |
| Bearing Type                                       | Deep Groove Ball Bearings                                            |
| Standard Lubrication Method                        | Grease                                                               |
| Optional Lubrication Methods                       | Please Consult Factory                                               |
| Grease Fitting                                     | (1) Standard Zerk Fitting                                            |
| Grease Capacity                                    | Minimum 0.4 oz.<br>Maximum 1.0 oz.                                   |
| Grease Type (recommended for typical applications) | NLGI #2                                                              |
| Recommended Grease Base                            | Lithium                                                              |
| Standard Mounting Orientation                      | Shaft Horizontal - Consult Factory for other Mounting Orientations   |
| Maximum Speed Without Modification                 | 3800 RPM                                                             |
| Housing Material                                   | Cast Iron                                                            |
| Housing Feet - Threaded Holes                      | (4) 3/8"-16 UNC x 0.68" deep                                         |
| Housing Grease Ports                               | Press-fit Zerk Fitting                                               |
| Unit Weight                                        | 10 lbs                                                               |



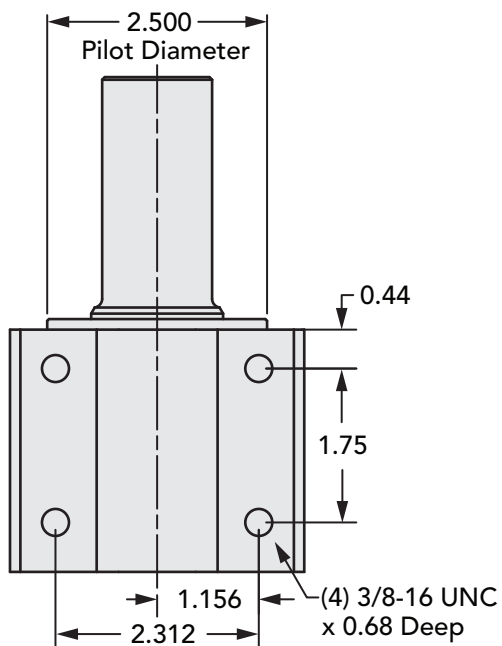
## Input End View



## Side View



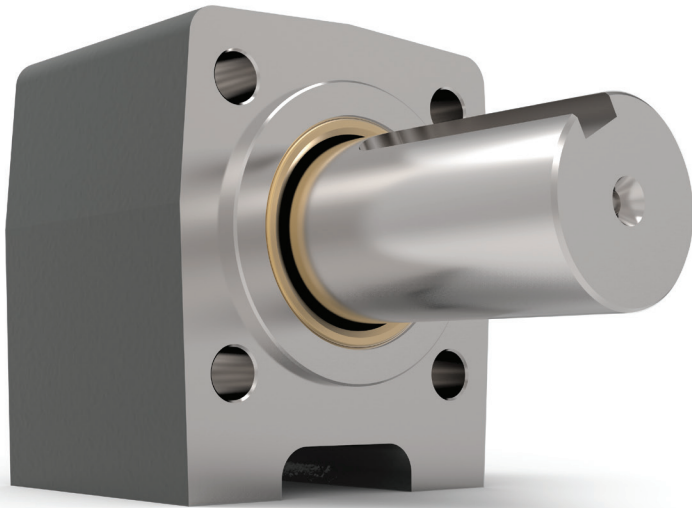
## Bottom View



## How to Order

### Standard 412k Series Models

| Part Number | Output Shaft - Keyway | Input Bore - Keyway |
|-------------|-----------------------|---------------------|
| 412k        | 1-1/4" - 1/4 x 1/8    | 1" - 1/4 x 1/8      |

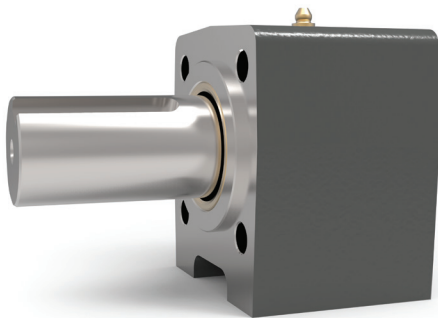


## Features

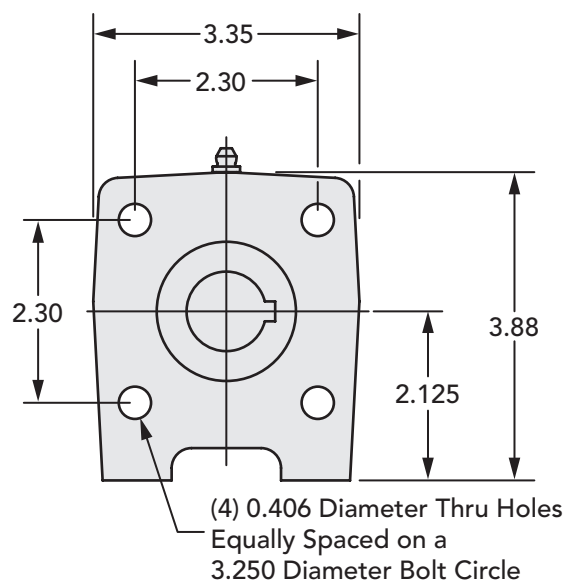
- Non-SAE 4-bolt mounting
- Deep Groove Ball Bearings
- May be either Face-mounted or Foot-mounted
- Provides a sturdy mounting base for the motor or pump
- Supports heavy radial and axial loads - protecting the hydraulic motor or pump
- Reduces downtime and maintenance costs
- Protects pump or motor shaft seal from harmful contaminants

### 415 Series Data

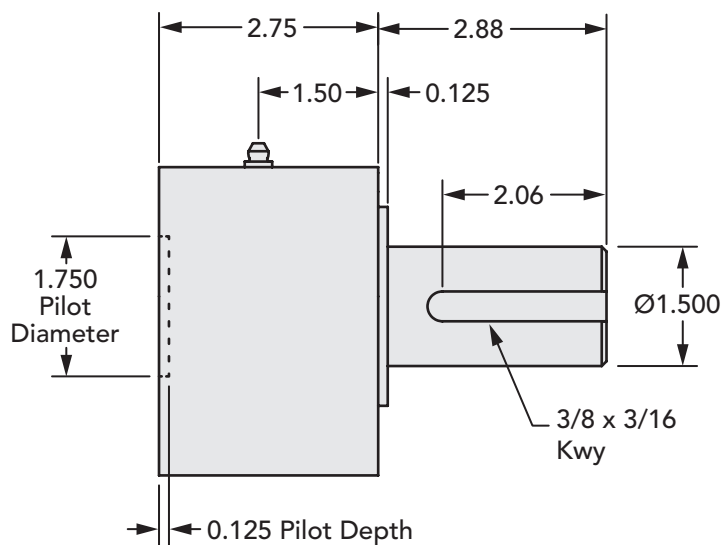
|                                                    |                                                                     |
|----------------------------------------------------|---------------------------------------------------------------------|
| Input Standard                                     | Non-SAE 4-bolt mount (designed to fit a popular LSHT Geroler motor) |
| Input Pilot Diameter                               | 1.750"                                                              |
| Input Pilot Depth                                  | 0.125"                                                              |
| Input Pilot Sealing Method                         | Fiber Gasket                                                        |
| Input Bore Diameter and Depth                      | 1" keyed - bore depth is 2.18"                                      |
| Output Shaft Diameter                              | 1-1/2"                                                              |
| Output Shaft Keyway                                | 3/8" x 3/16" keyway                                                 |
| Output Shaft Keyway Length                         | 2.06"                                                               |
| Output Shaft Length                                | 2.87"                                                               |
| Output Pilot Diameter                              | 2.500"                                                              |
| Output Pilot Height                                | 0.125"                                                              |
| Shaft Material                                     | 1144 Stressproof Steel                                              |
| Bearing Type                                       | Deep Groove Ball Bearings                                           |
| Standard Lubrication Method                        | Grease                                                              |
| Optional Lubrication Methods                       | Please Consult Factory                                              |
| Grease Fitting                                     | (1) Standard Zerk Fitting                                           |
| Grease Capacity                                    | Minimum 0.4 oz.<br>Maximum 1.0 oz.                                  |
| Grease Type (recommended for typical applications) | NLGI #2                                                             |
| Recommended Grease Base                            | Lithium                                                             |
| Standard Mounting Orientation                      | Shaft Horizontal - Consult Factory for other Mounting Orientations  |
| Maximum Speed Without Modification                 | 3800 RPM                                                            |
| Housing Material                                   | Cast Iron                                                           |
| Housing Feet - Threaded Holes                      | (4) 3/8"-16 UNC x 0.68" deep                                        |
| Housing Grease Ports                               | Press-fit Zerk Fitting                                              |
| Unit Weight                                        | 10 lbs                                                              |



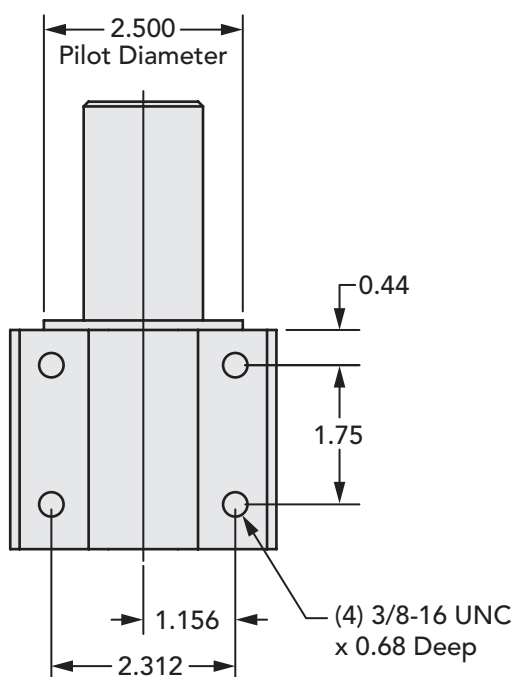
## Input End View



## Side View



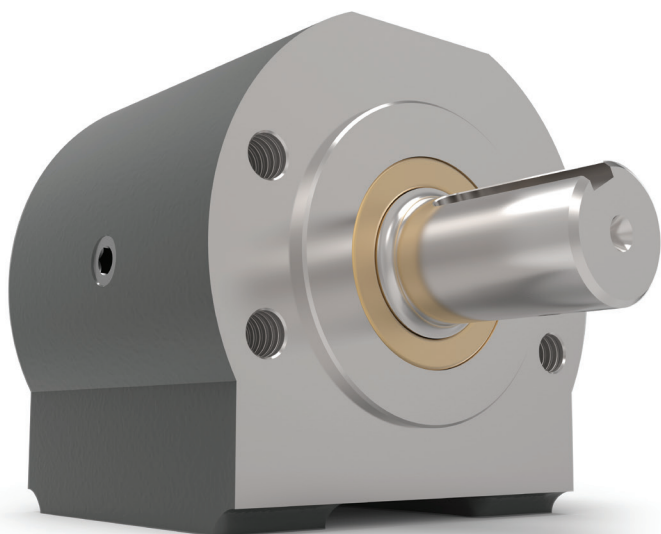
## Bottom View



## How to Order

### Standard 415 Series Models

| Part Number | Output Shaft - Keyway | Input Bore - Keyway |
|-------------|-----------------------|---------------------|
| 415         | 1-1/2" - 3/8 x 3/16   | 1" - 1/4 x 1/8      |

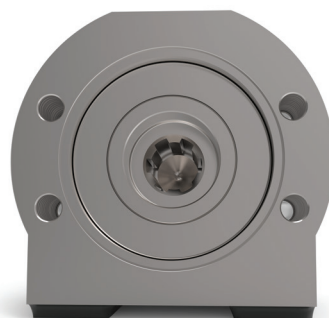
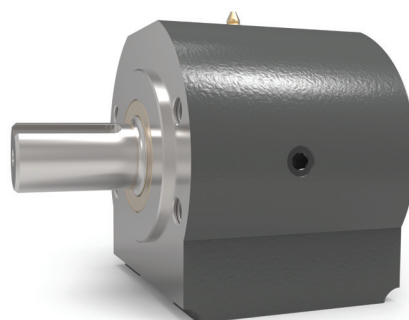


## Features

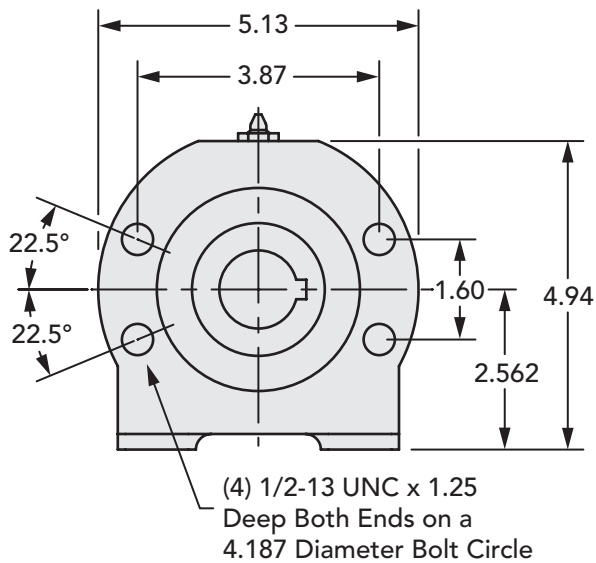
- SAE A 2-bolt or 4-bolt mounting
- Heavy Duty Tapered Roller Bearings
- May be either Face-mounted or Foot-mounted
- Provides a sturdy mounting base for the motor or pump
- Supports heavy radial and axial loads - protecting the hydraulic motor or pump
- Reduces downtime and maintenance costs
- Protects pump or motor shaft seal from harmful contaminants

### 512 Series Data

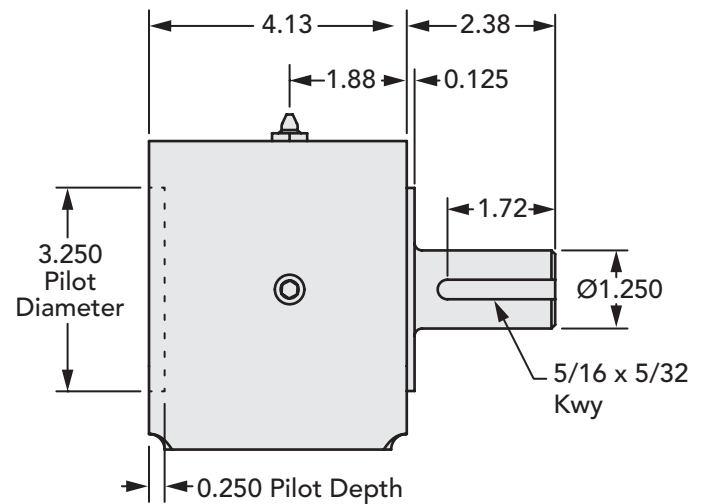
|                                                    |                                                                                                                         |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Input Standard                                     | SAE A 2 bolt - 2 different mounts:<br>4-bolt Magneto Mount<br>2-bolt (rotated 22-1/2° from horizontal)                  |
| Input Pilot Diameter                               | 3.250"                                                                                                                  |
| Input Pilot Depth                                  | 0.250"                                                                                                                  |
| Input Pilot Sealing Method                         | Fiber Gasket                                                                                                            |
| Input Bore Diameter and Depth                      | 1-1/4" keyed - bore depth is 2.5"<br>1"- 6B Spline - bore depth is 2.68"<br>14 tooth 12/24 spline - bore depth is 2.75" |
| Input Shaft Seal Type                              | Double-lip with Garter Spring                                                                                           |
| Output Shaft Diameter                              | 1-1/4"                                                                                                                  |
| Output Shaft Keyway                                | 5/16" x 5/32" keyway                                                                                                    |
| Output Shaft Keyway Length                         | 1.72"                                                                                                                   |
| Output Shaft Length                                | 2.25"                                                                                                                   |
| Output Shaft Seal Type                             | Double-lip with Garter Spring                                                                                           |
| Output Pilot Diameter                              | 3.250"                                                                                                                  |
| Output Pilot Height                                | 0.125"                                                                                                                  |
| Shaft Material                                     | 1144 Stressproof Steel                                                                                                  |
| Bearing Type                                       | Tapered Roller Bearings                                                                                                 |
| Standard Lubrication Method                        | Grease                                                                                                                  |
| Optional Lubrication Methods                       | Please Consult Factory                                                                                                  |
| Grease Fitting                                     | (1) Standard Zerk fitting                                                                                               |
| Grease Capacity                                    | Minimum 2.0 oz.<br>Maximum 4.0 oz.                                                                                      |
| Grease Type (recommended for typical applications) | NLGI #2                                                                                                                 |
| Recommended Grease Base                            | Lithium                                                                                                                 |
| Standard Mounting Orientation                      | Shaft Horizontal - Consult Factory for other Mounting Orientations                                                      |
| Maximum Speed Without Modification                 | 2300 RPM                                                                                                                |
| Housing Material                                   | Cast Iron                                                                                                               |
| Housing Feet - Threaded Holes                      | (4) 3/8"-16 UNC x 1.00" deep                                                                                            |
| Housing Grease Ports                               | 1/4-18 NPT                                                                                                              |
| Unit Weight                                        | 22 lbs                                                                                                                  |



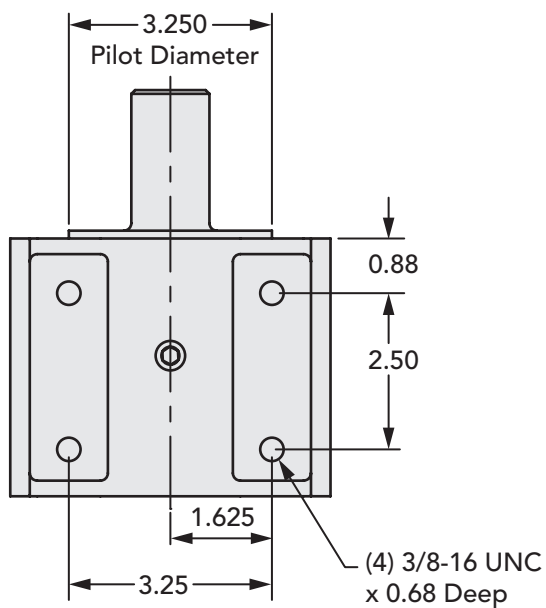
## Input End View



## Side View



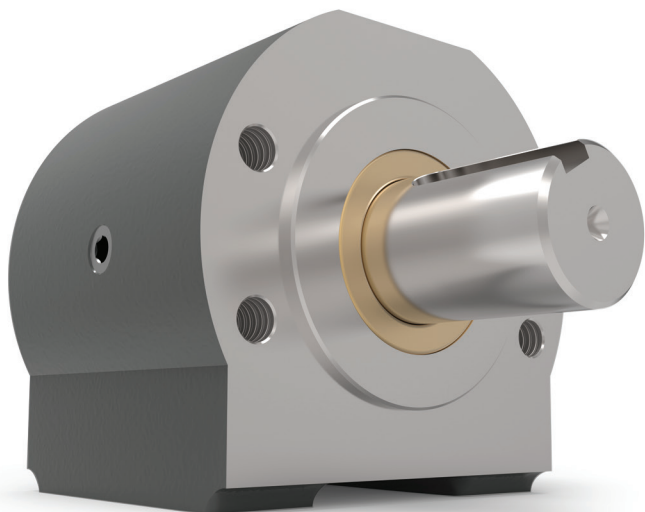
## Bottom View



## How to Order

### Standard 512 Series Models

| Part Number | Output Shaft - Keyway | Input Bore - Keyway   |
|-------------|-----------------------|-----------------------|
| 512-14S     | 1-1/4" - 5/16 x 5/32  | 14 Tooth 12/24 Spline |
| 512-20      | 1-1/4" - 5/16 x 5/32  | 1-1/4" - 5/16 x 5/32  |
| 512-6BS     | 1-1/4" - 5/16 x 5/32  | 1" - 6B Spline        |

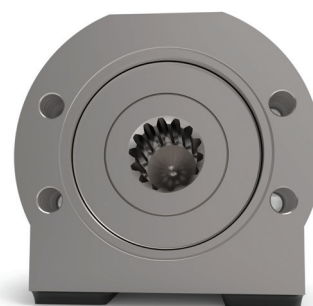
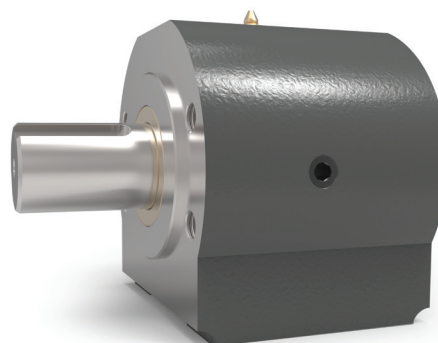


## Features

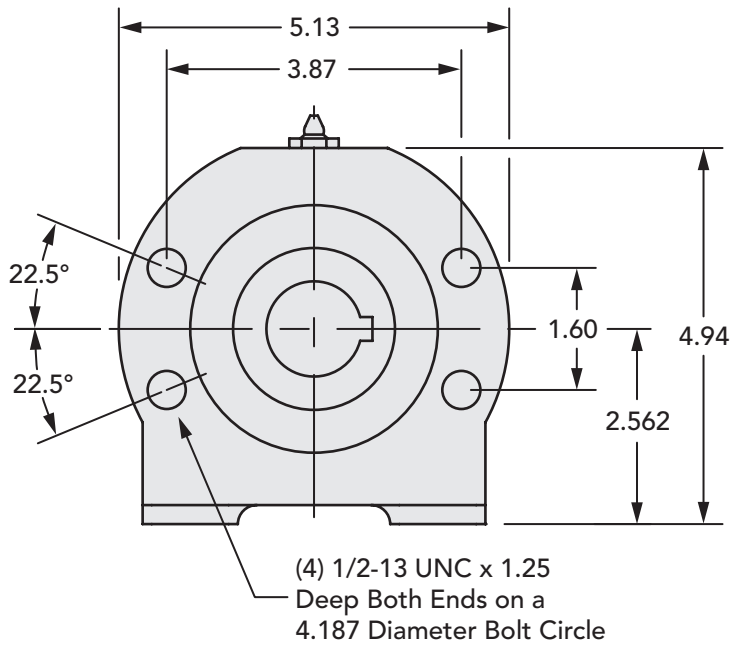
- SAE A 2-bolt or 4-bolt mounting
- Heavy Duty Tapered Roller Bearings
- May be either Face-mounted or Foot-Mounted
- Provides a sturdy mounting base for the motor or pump
- Supports heavy radial and axial loads - protecting the hydraulic motor or pump
- Reduces downtime and maintenance costs
- Protects pump or motor shaft seal from harmful contaminants

### 515 Series Data

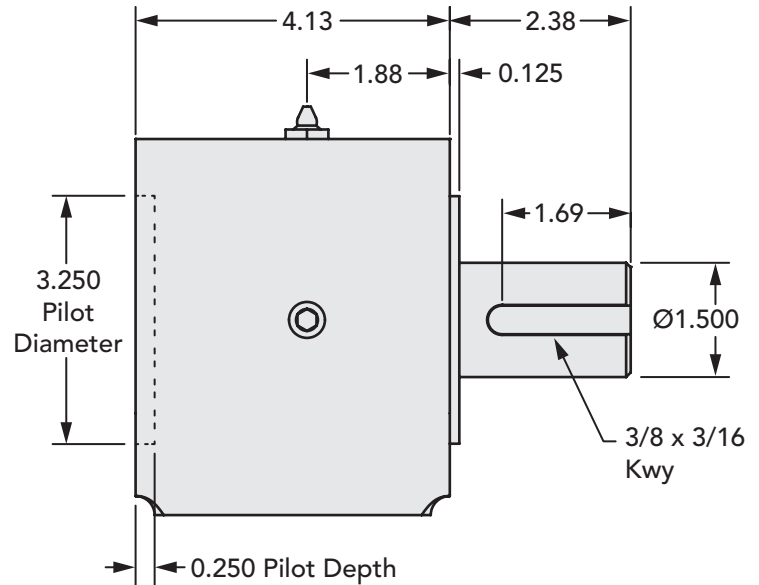
|                                                    |                                                                                                                         |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Input Standard                                     | SAE A 2 bolt - 2 different mounts:<br>4-bolt Magneto Mount<br>2-bolt (rotated 22-1/2° from horizontal)                  |
| Input Pilot Diameter                               | 3.250"                                                                                                                  |
| Input Pilot Depth                                  | 0.250"                                                                                                                  |
| Input Pilot Sealing Method                         | Fiber Gasket                                                                                                            |
| Input Bore Diameter and Depth                      | 1-1/4" keyed - bore depth is 2.5"<br>1"- 6B Spline - bore depth is 2.68"<br>14 tooth 12/24 spline - bore depth is 2.75" |
| Input Shaft Seal Type                              | Double-lip with Garter Spring                                                                                           |
| Output Shaft Diameter                              | 1-1/2"                                                                                                                  |
| Output Shaft Keyway                                | 3/8" x 3/16" keyway                                                                                                     |
| Output Shaft Keyway Length                         | 1.69"                                                                                                                   |
| Output Shaft Length                                | 2.25"                                                                                                                   |
| Output Shaft Seal Type                             | Double-lip with Garter Spring                                                                                           |
| Output Pilot Diameter                              | 3.250"                                                                                                                  |
| Output Pilot Height                                | 0.125"                                                                                                                  |
| Shaft Material                                     | 1144 Stressproof Steel                                                                                                  |
| Bearing Type                                       | Tapered Roller Bearings                                                                                                 |
| Standard Lubrication Method                        | Grease                                                                                                                  |
| Optional Lubrication Methods                       | Please Consult Factory                                                                                                  |
| Grease Fitting                                     | (1) Standard Zerk Fitting                                                                                               |
| Grease Capacity                                    | Minimum 2.0 oz.<br>Maximum 4.0 oz.                                                                                      |
| Grease Type (recommended for typical applications) | NLGI #2                                                                                                                 |
| Recommended Grease Base                            | Lithium                                                                                                                 |
| Standard Mounting Orientation                      | Shaft Horizontal - Consult Factory for other Mounting Orientations                                                      |
| Maximum Speed Without Modification                 | 2300 RPM                                                                                                                |
| Housing Material                                   | Cast Iron                                                                                                               |
| Housing Feet - Threaded Holes                      | (4) 3/8"-16 UNC x 1.00" deep                                                                                            |
| Housing Grease Ports                               | 1/4-18 NPT                                                                                                              |
| Unit Weight                                        | 22 lbs                                                                                                                  |



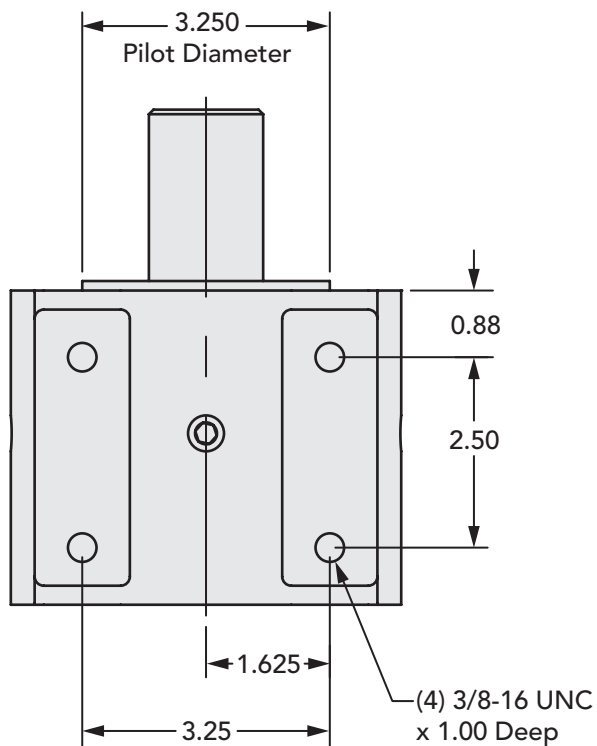
## Input End View



## Side View



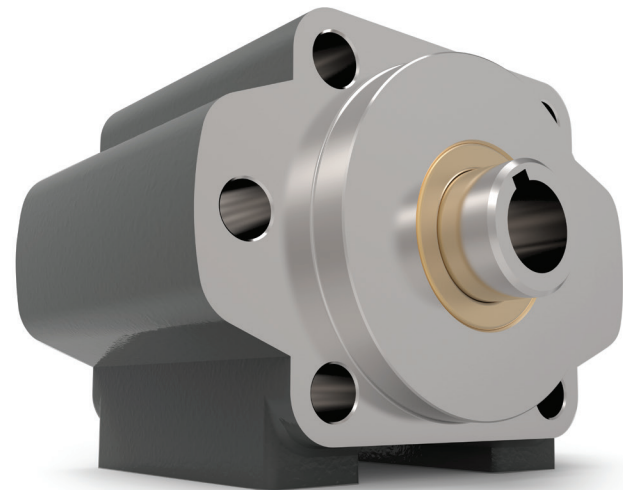
## Bottom View



## How to Order

### Standard 515 Series Models

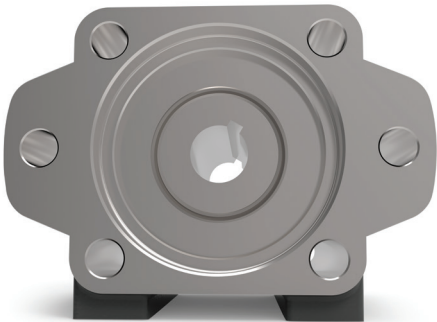
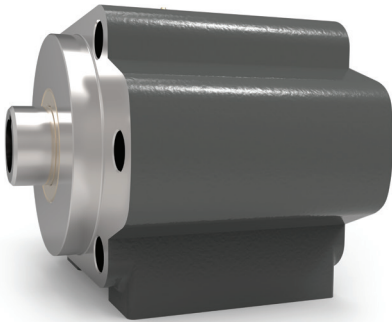
| Part Number | Output Shaft - Keyway | Input Bore - Keyway   |
|-------------|-----------------------|-----------------------|
| 515-14S     | 1-1/2" - 3/8 x 3/16   | 14 Tooth 12/24 Spline |
| 515-20      | 1-1/2" - 3/8 x 3/16   | 1-1/4" - 5/16 x 5/32  |
| 515-6BS     | 1-1/2" - 3/8 x 3/16   | 1" - 6B Spline        |



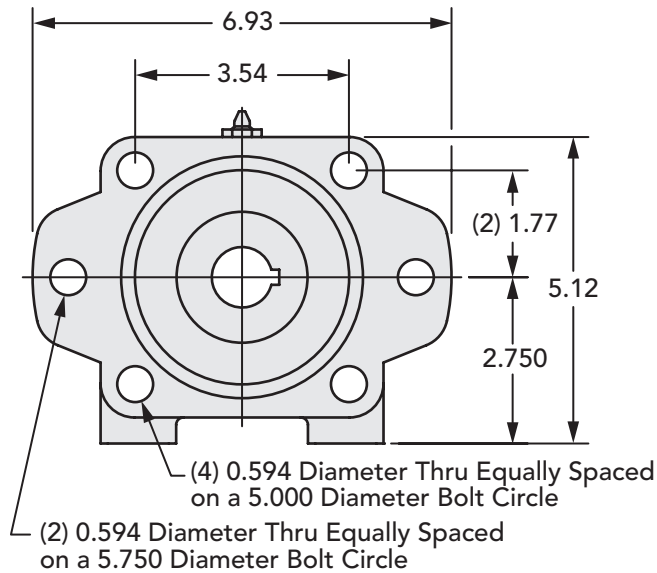
**Features**

- SAE B - 2-bolt or 4-bolt mounting
- Heavy Duty Tapered Roller Bearings
- May be either Face-mounted or Foot-mounted
- Provides a sturdy mounting base for the motor or pump
- Supports heavy radial and axial loads - protecting the hydraulic motor or pump
- Reduces downtime and maintenance costs
- Protects pump or motor shaft seal from harmful contaminants

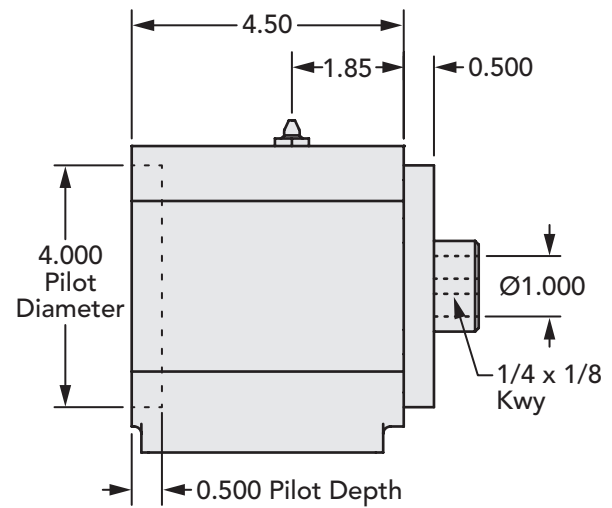
| 600F Series Data                                   |                                                                    |
|----------------------------------------------------|--------------------------------------------------------------------|
| Input Standard                                     | SAE B 2- bolt or SAE B 4-bolt mount                                |
| Input Pilot Diameter                               | 4.000"                                                             |
| Input Pilot Depth                                  | 0.500"                                                             |
| Input Pilot Sealing Method                         | Fiber Gasket                                                       |
| Input Bore Diameter and Depth                      | 1" through-bore                                                    |
| Input Shaft Seal Type                              | Double-lip with Garter Spring                                      |
| Output Shaft Diameter                              | 1" through-bore                                                    |
| Output Shaft Keyway                                | 1/4" x 1/8" keyway the entire length of the bore                   |
| Output Shaft Length                                | 0.73" extension                                                    |
| Output Shaft Seal Type                             | Double-lip with Garter Spring                                      |
| Output Pilot Diameter                              | 4.000"                                                             |
| Output Pilot Height                                | 0.500"                                                             |
| Shaft Material                                     | 1144 Stressproof Steel                                             |
| Bearing Type                                       | Tapered Roller Bearings                                            |
| Standard Lubrication Method                        | Grease                                                             |
| Optional Lubrication Methods                       | Please Consult Factory                                             |
| Grease Fitting                                     | (1) Standard Zerk Fitting                                          |
| Grease Capacity                                    | Minimum 2.2 oz.<br>Maximum 4.4 oz.                                 |
| Grease Type (recommended for typical applications) | NLGI #2                                                            |
| Recommended Grease Base                            | Lithium                                                            |
| Standard Mounting Orientation                      | Shaft Horizontal - Consult Factory for other Mounting Orientations |
| Maximum Speed Without Modification                 | 2300 RPM                                                           |
| Housing Material                                   | Cast Iron                                                          |
| Housing Feet - Threaded Holes                      | (4) 7/16"-14 UNC x 0.75" deep                                      |
| Housing Grease Ports                               | 1/4-18 NPT                                                         |
| Unit Weight                                        | 30 lbs                                                             |



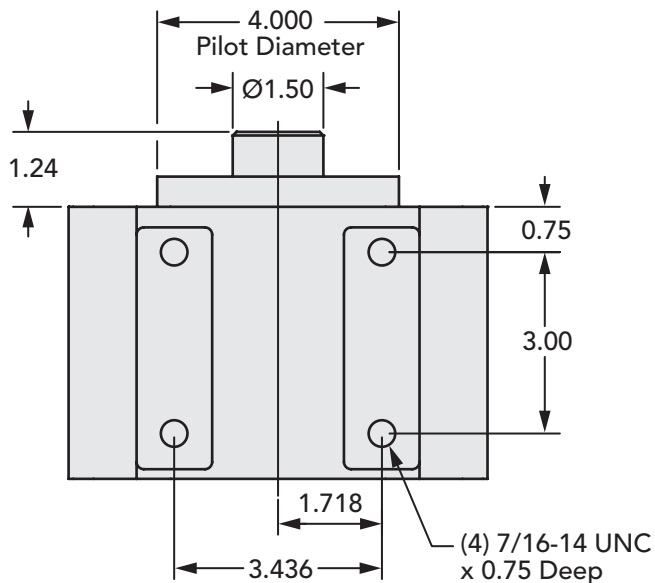
## Input End View



## Side View



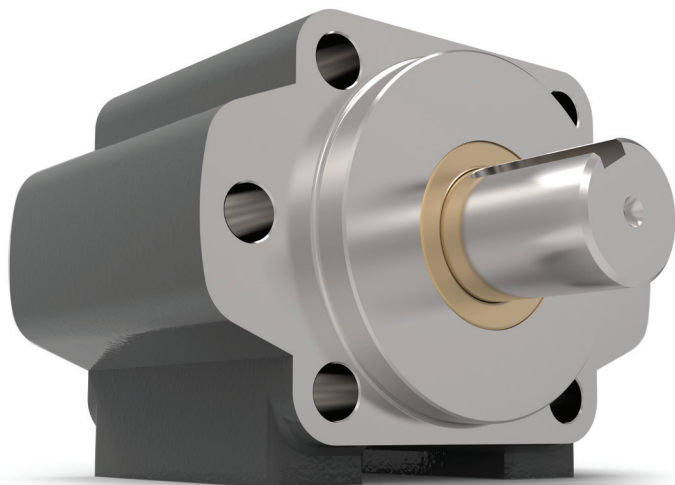
## Bottom View



## How to Order

### Standard 600F Series Models

| Part Number | Output Shaft - Keyway | Input Bore - Keyway |
|-------------|-----------------------|---------------------|
| 600F        | 1" bore - 1/4 x 1/8   | 1" - 1/4 x 1/8      |

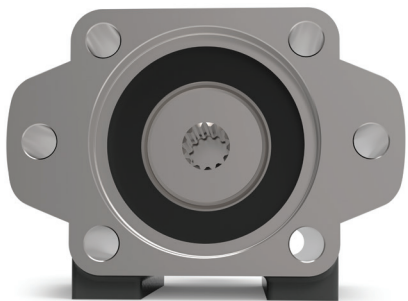
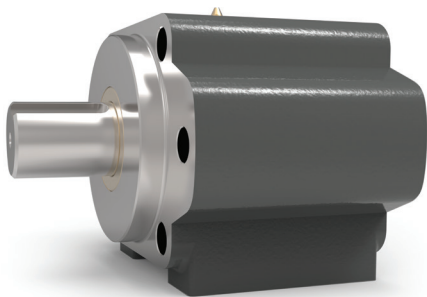


### Features

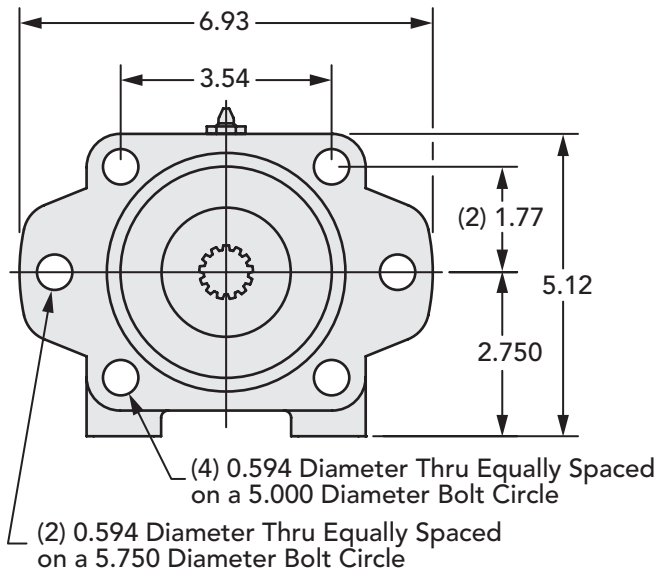
- SAE B - 2-bolt or 4-bolt mounting
- Heavy Duty Tapered Roller Bearings
- May be either Face-mounted or Foot-mounted
- Provides a sturdy mounting base for the motor or pump
- Supports heavy radial and axial loads - protecting the hydraulic motor or pump
- Reduces downtime and maintenance costs
- Protects pump or motor shaft seal from harmful contaminants

#### 615 Series Data

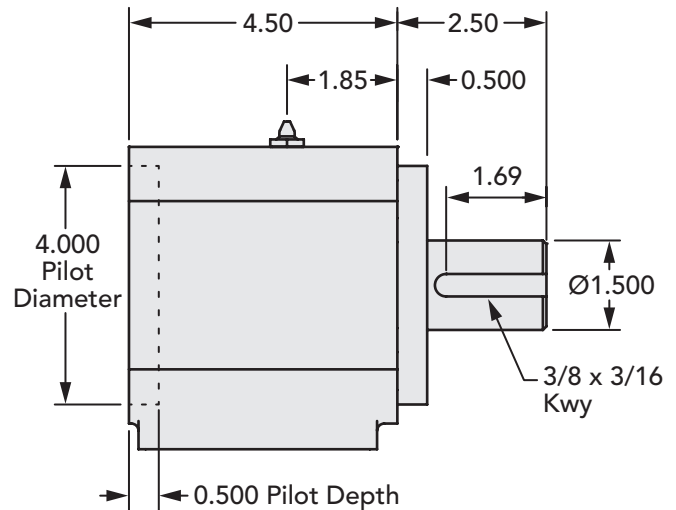
|                                                    |                                                                                                                                                                                                                         |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input Standard                                     | SAE B 2-bolt or SAE B 4-bolt mount                                                                                                                                                                                      |
| Input Pilot Diameter                               | 4.000"                                                                                                                                                                                                                  |
| Input Pilot Depth                                  | 0.500"                                                                                                                                                                                                                  |
| Input Pilot Sealing Method                         | Fiber Gasket                                                                                                                                                                                                            |
| Input Bore Diameter and Depth                      | 13 tooth 16/32 spline - bore depth is 2.67"<br>15 tooth 16/32 spine - bore depth is 2.67"<br>7/8" keyed shaft - bore depth is 2.85"<br>1" keyed shaft - bore depth is 2.85"<br>1-1/4" keyed shaft - bore depth is 2.86" |
| Input Shaft Seal Type                              | Double-lip with Garter Spring                                                                                                                                                                                           |
| Output Shaft Diameter                              | 1-1/2"                                                                                                                                                                                                                  |
| Output Shaft Keyway                                | 3/8" x 3/16" keyway                                                                                                                                                                                                     |
| Output Shaft Keyway Length                         | 1.69"                                                                                                                                                                                                                   |
| Output Shaft Length                                | 2.00"                                                                                                                                                                                                                   |
| Output Shaft Seal Type                             | Double-lip with Garter Spring                                                                                                                                                                                           |
| Output Pilot Diameter                              | 4.000"                                                                                                                                                                                                                  |
| Output Pilot Height                                | 0.500"                                                                                                                                                                                                                  |
| Shaft Material                                     | 1144 Stressproof Steel                                                                                                                                                                                                  |
| Bearing Type                                       | Tapered Roller Bearings                                                                                                                                                                                                 |
| Standard Lubrication Method                        | Grease                                                                                                                                                                                                                  |
| Optional Lubrication Methods                       | Please Consult Factory                                                                                                                                                                                                  |
| Grease Fitting                                     | (1) Standard Zerk Fitting                                                                                                                                                                                               |
| Grease Capacity                                    | Minimum 2.2 oz.<br>Maximum 4.4 oz.                                                                                                                                                                                      |
| Grease Type (recommended for typical applications) | NLGI #2                                                                                                                                                                                                                 |
| Recommended Grease base                            | Lithium                                                                                                                                                                                                                 |
| Standard mounting orientation                      | Shaft Horizontal - Consult Factory for other Mounting Orientations                                                                                                                                                      |
| Maximum Speed Without Modification                 | 2300 RPM                                                                                                                                                                                                                |
| Housing Material                                   | Cast Iron                                                                                                                                                                                                               |
| Housing Feet - Threaded Holes                      | (4) 7/16"-14 UNC x 0.75" deep                                                                                                                                                                                           |
| Housing Grease Ports                               | 1/4-18 NPT                                                                                                                                                                                                              |
| Unit Weight                                        | 30 lbs                                                                                                                                                                                                                  |



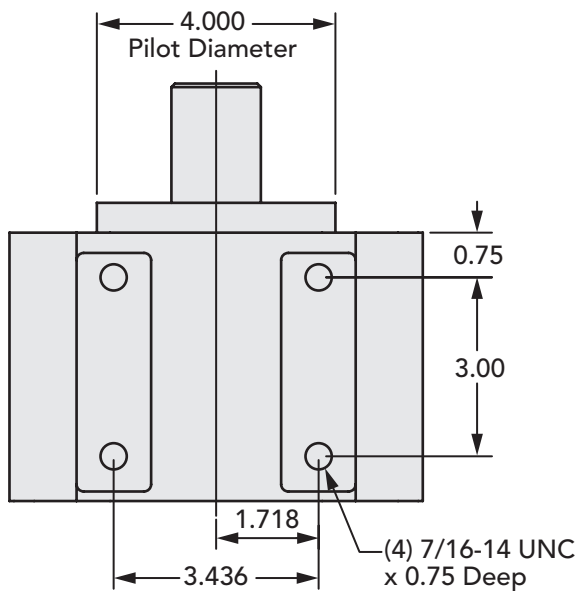
## Input End View



## Side View



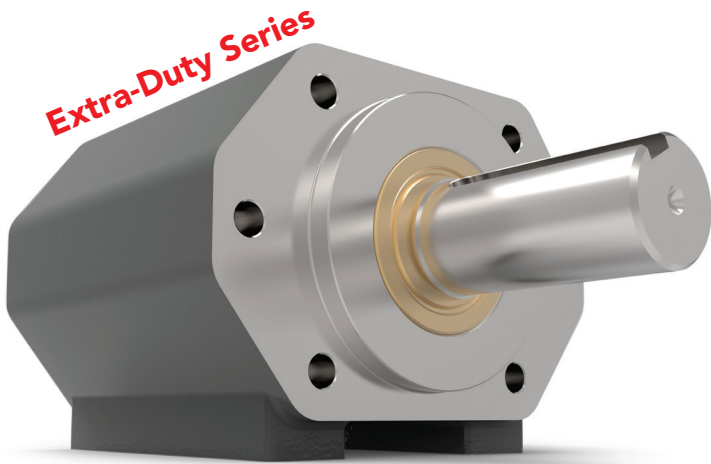
## Bottom View



## How to Order

### Standard 615 Series Models

| Part Number | Output Shaft - Keyway | Input Bore - Keyway   |
|-------------|-----------------------|-----------------------|
| 615-13S     | 1-1/2" - 3/8 x 3/16   | 13 Tooth 16/32 Spline |
| 615-15S     | 1-1/2" - 3/8 x 3/16   | 15 Tooth 16/32 Spline |
| 615-14K     | 1-1/2" - 3/8 x 3/16   | 7/8" - 3/16 x 3/32    |
| 615-14      | 1-1/2" - 3/8 x 3/16   | 7/8" - 1/4 x 1/8      |
| 615-16K     | 1-1/2" - 3/8 x 3/16   | 1" - 5/16 x 5/32      |
| 615-16      | 1-1/2" - 3/8 x 3/16   | 1" - 1/4 x 1/8        |
| 615-20      | 1-1/2" - 3/8 x 3/16   | 1-1/4" - 5/16 x 5/32  |



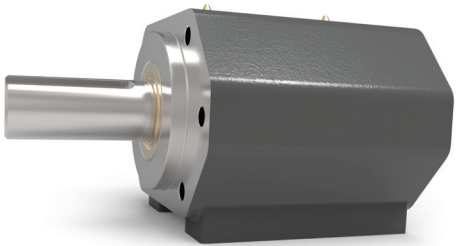
**Features**

- SAE B - 2-bolt or 4-bolt mounting
- Heavy Duty Spherical Roller Bearings
- May be either Face-mounted or Foot-mounted
- Provides a sturdy mounting base for the motor or pump
- Supports heavy radial and axial loads - protecting the hydraulic motor or pump
- Reduces downtime and maintenance costs
- Protects pump or motor shaft seal from harmful contaminants

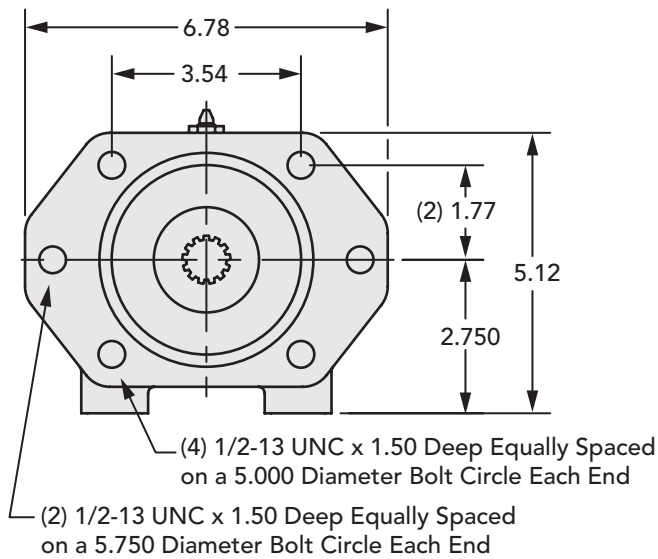
**Extra-Duty Series Enhancements:**

- Extended Housing
- Heat-Treated Shaft
- O-Ring Input Seal
- Spherical Roller Bearings
- Dual NPT Grease Zerk
- Double-Primary Lip Output Seal

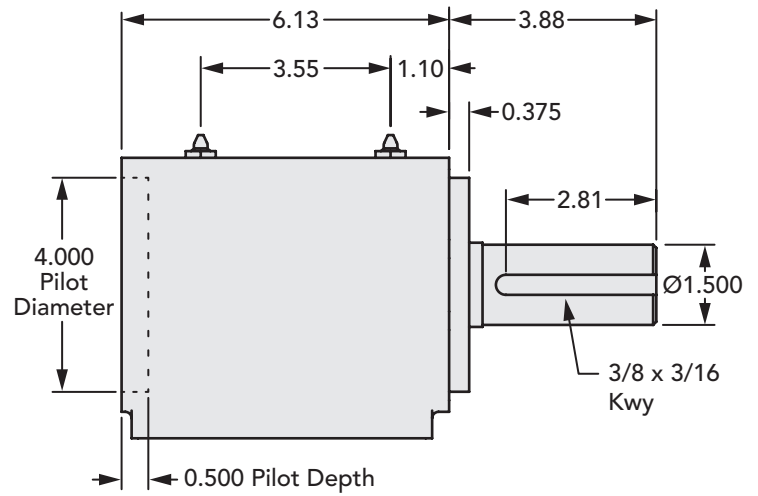
| 650 Series Data                                    |                                                                                                        |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Input Standard                                     | SAE B 2-bolt or SAE B 4-bolt mount                                                                     |
| Input Pilot Diameter                               | 4.000"                                                                                                 |
| Input Pilot Depth                                  | 0.500"                                                                                                 |
| Input Pilot Sealing Method                         | O-ring                                                                                                 |
| Input Bore Diameter and Depth                      | 13 tooth 16/32 Spline - bore depth is 2.43 inches<br>15 tooth 16/32 Spline - bore depth is 2.43 inches |
| Output Shaft Diameter                              | 1-1/2"                                                                                                 |
| Output Shaft Keyway                                | 3/8" x 3/16" keyway                                                                                    |
| Output Shaft Keyway Length                         | 2.81"                                                                                                  |
| Output Shaft Length                                | 3.50"                                                                                                  |
| Output Shaft Seal Type                             | Double Primary Lip Seal With Garter Springs                                                            |
| Output Pilot Diameter                              | 4.000"                                                                                                 |
| Output Pilot Height                                | 0.375"                                                                                                 |
| Shaft Material                                     | 8620 steel - Heat-treated                                                                              |
| Bearing Type                                       | Spherical Roller Bearing                                                                               |
| Standard Lubrication Method                        | Grease                                                                                                 |
| Optional Lubrication Methods                       | Please Consult Factory                                                                                 |
| Grease Fittings                                    | (2) Standard Zerk Fitting                                                                              |
| Grease Capacity                                    | Minimum 3.5 oz. (1.75 oz. per grease fitting)<br>Maximum 7.0 oz. (3.5 oz. per grease fitting)          |
| Grease Type (recommended for typical applications) | NLGI #2                                                                                                |
| Recommended Grease Base                            | Lithium                                                                                                |
| Standard Mounting Orientation                      | Shaft Horizontal - Consult Factory for other Mounting Orientations                                     |
| Maximum Speed Without Modification                 | 3500 RPM                                                                                               |
| Housing Material                                   | Cast Iron                                                                                              |
| Housing Feet - Threaded Holes                      | (4) 7/16"-14 UNC x 0.75" deep                                                                          |
| Housing Grease Ports                               | (2) 1/4-18 NPT                                                                                         |
| Unit Weight                                        | 40 lbs                                                                                                 |



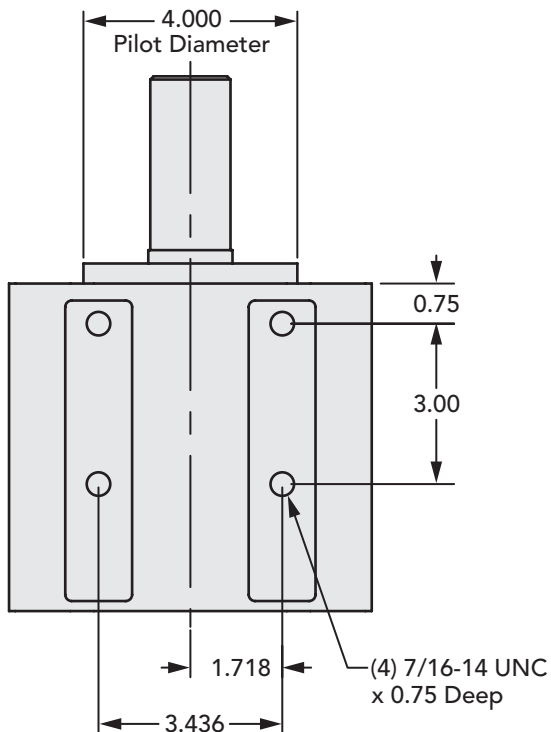
## Input End View



## Side View



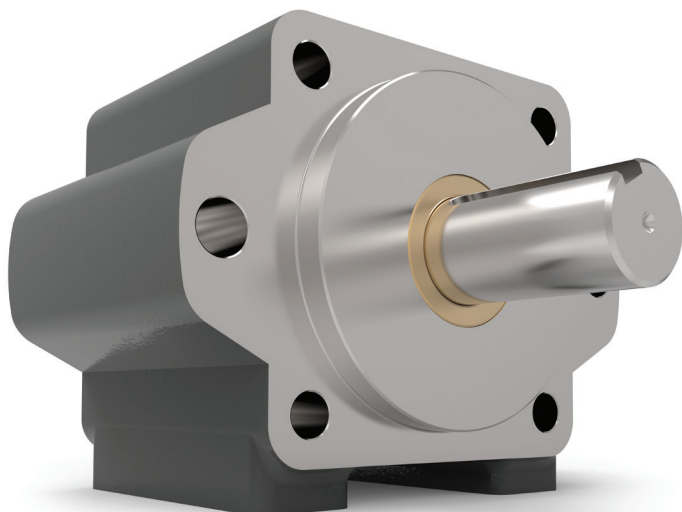
## Bottom View



## How to Order

### Standard 650 Series Models

| Part Number | Output Shaft - Keyway | Input Bore - Keyway   |
|-------------|-----------------------|-----------------------|
| 650-13S     | 1-1/2" - 3/8 x 3/16   | 13 Tooth 16/32 Spline |
| 650-15S     | 1-1/2" - 3/8 x 3/16   | 15 Tooth 16/32 Spline |

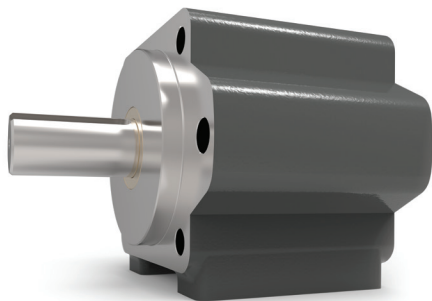


### Features

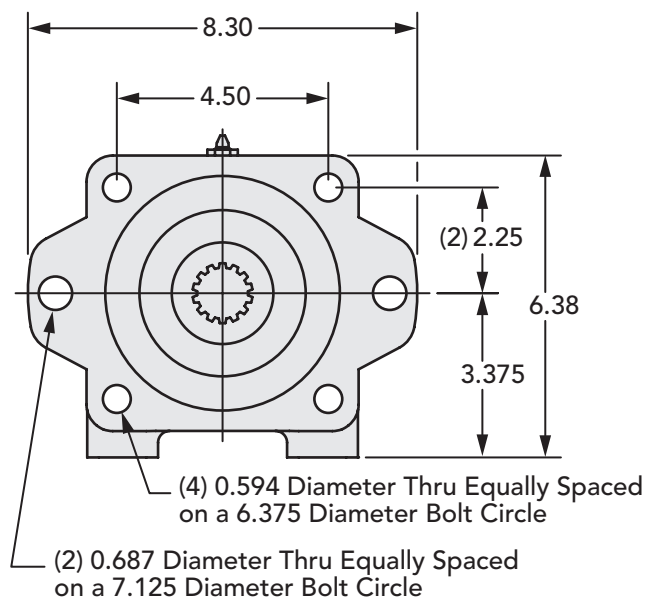
- SAE C - 2-bolt or 4-bolt mounting
- Heavy Duty Tapered Roller Bearings
- May be either Face-mounted or Foot-mounted
- Provides a sturdy mounting base for the motor or pump
- Supports heavy radial and axial loads - protecting the hydraulic motor or pump
- Reduces downtime and maintenance costs
- Protects pump or motor shaft seal from harmful contaminants

#### 815 Series Data

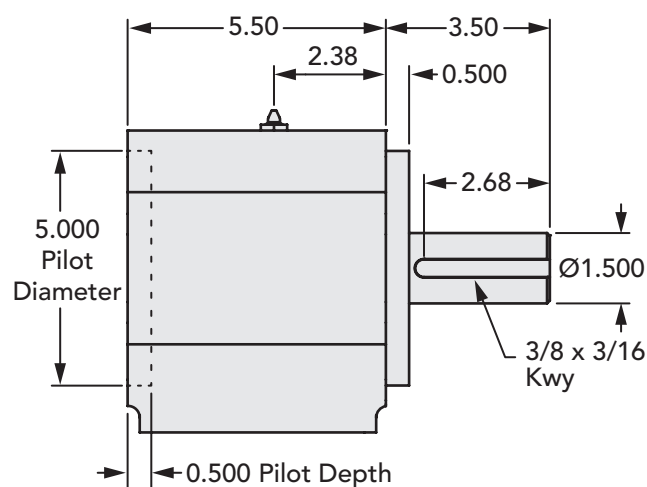
|                                                    |                                                                                                                                                                          |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input Standard                                     | SAE C 2-bolt or SAE C 4-bolt mount                                                                                                                                       |
| Input Pilot Diameter                               | 5.000"                                                                                                                                                                   |
| Input Pilot Depth                                  | 0.500"                                                                                                                                                                   |
| Input Pilot Sealing Method                         | Fiber Gasket                                                                                                                                                             |
| Input Bore Diameter and Depth                      | 14 tooth 12/24 spline - bore depth is 2.89"<br>7/8" keyed shaft - bore depth is 3.33"<br>1" keyed shaft - bore depth is 3.33"<br>1-1/4 keyed shaft - bore depth is 3.33" |
| Input Shaft Seal Type                              | Double-lip with Garter Spring                                                                                                                                            |
| Output Shaft Diameter                              | 1-1/2"                                                                                                                                                                   |
| Output Shaft Keyway                                | 3/8" x 3/16" keyway                                                                                                                                                      |
| Output Shaft Keyway Length                         | 2.68"                                                                                                                                                                    |
| Output Shaft Length                                | 3.00"                                                                                                                                                                    |
| Output Shaft Seal Type                             | Double-lip with Garter Spring                                                                                                                                            |
| Output Pilot Diameter                              | 5.000"                                                                                                                                                                   |
| Output Pilot Height                                | 0.500"                                                                                                                                                                   |
| Shaft Material                                     | 1144 Stressproof Steel                                                                                                                                                   |
| Bearing Type                                       | Tapered Roller Bearings                                                                                                                                                  |
| Standard Lubrication Method                        | Grease                                                                                                                                                                   |
| Optional Lubrication Methods                       | Please Consult Factory                                                                                                                                                   |
| Grease Fitting                                     | (1) Standard Zerk Fitting                                                                                                                                                |
| Grease Capacity                                    | Minimum 2.8 oz.<br>Maximum 5.6 oz.                                                                                                                                       |
| Grease Type (recommended for typical applications) | NLGI #2                                                                                                                                                                  |
| Recommended Grease Base                            | Lithium                                                                                                                                                                  |
| Standard Mounting Orientation                      | Shaft Horizontal - Consult Factory for other Mounting Orientations                                                                                                       |
| Maximum Speed Without Modification                 | 2300 RPM                                                                                                                                                                 |
| Housing Material                                   | Cast Iron                                                                                                                                                                |
| Housing Feet - Threaded Holes                      | (4) 1/2"-13 UNC x 1.00" deep                                                                                                                                             |
| Housing Grease Ports                               | 1/4-18 NPT                                                                                                                                                               |
| Unit Weight                                        | 55 lbs                                                                                                                                                                   |



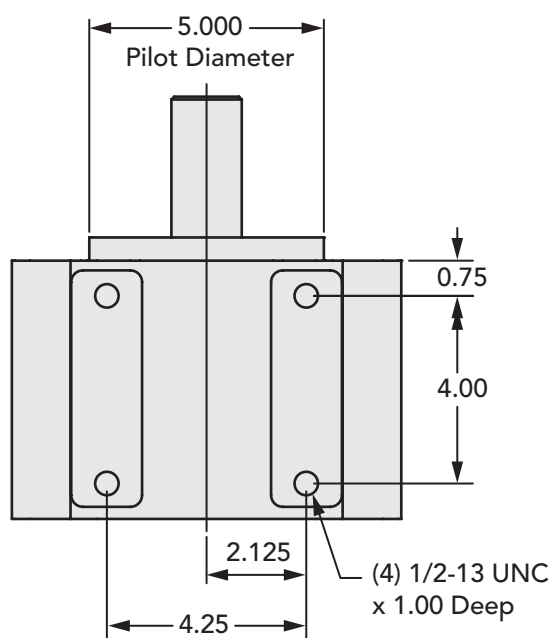
## Input End View



## Side View



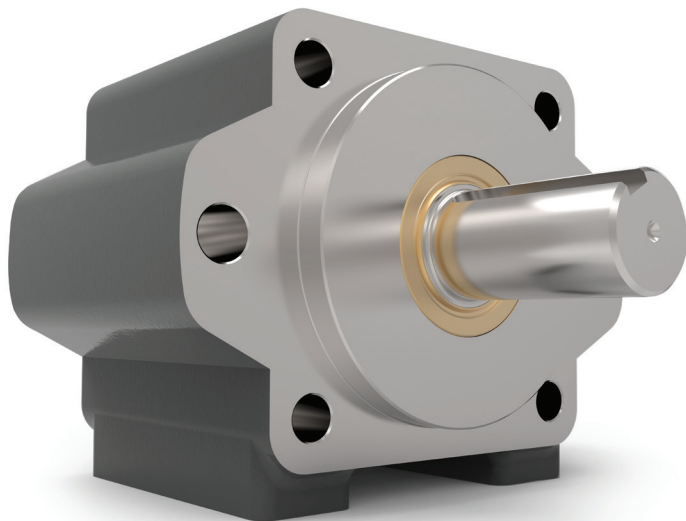
## Bottom View



## How to Order

### Standard 815 Series Models

| Part Number | Output Shaft - Keyway | Input Bore - Keyway   |
|-------------|-----------------------|-----------------------|
| 815-14S     | 1-1/2" - 3/8 x 3/16   | 14 Tooth 12/24 Spline |
| 815-14K     | 1-1/2" - 3/8 x 3/16   | 7/8" - 3/16 x 3/32    |
| 815-14      | 1-1/2" - 3/8 x 3/16   | 7/8" - 1/4 x 1/8      |
| 815-16K     | 1-1/2" - 3/8 x 3/16   | 1" - 5/16 x 5/32      |
| 815-16      | 1-1/2" - 3/8 x 3/16   | 1" - 1/4 x 1/8        |
| 815-20      | 1-1/2" - 3/8 x 3/16   | 1-1/4" - 5/16 x 5/32  |

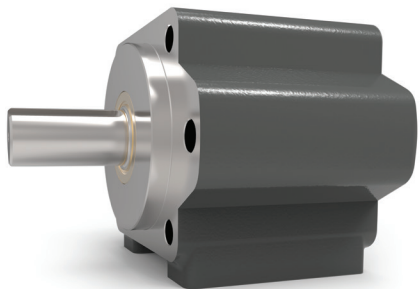


## Features

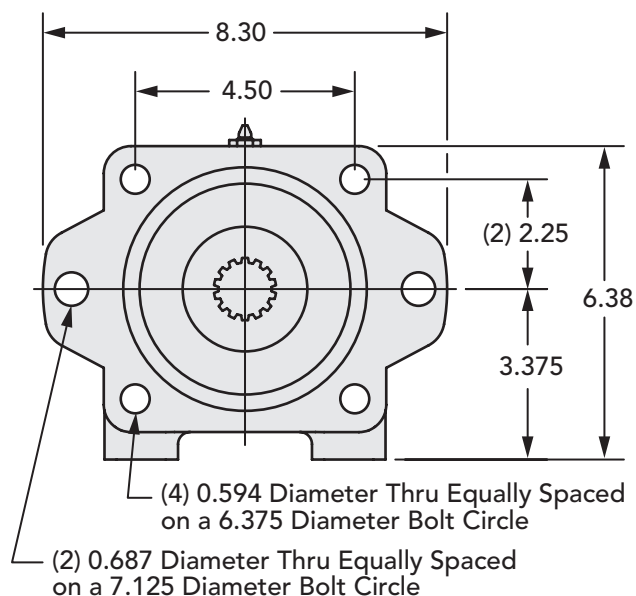
- SAE C - 2-bolt or 4 bolt mounting
- Extra Heavy Duty Tapered Roller Bearings
- May be either Face-mounted or Foot-mounted
- Provides a sturdy mounting base for the motor or pump
- Supports heavy radial and axial loads - protecting the hydraulic motor or pump
- Reduces downtime and maintenance costs
- Protects pump or motor shaft seal from harmful contaminants

### 915 Series Data

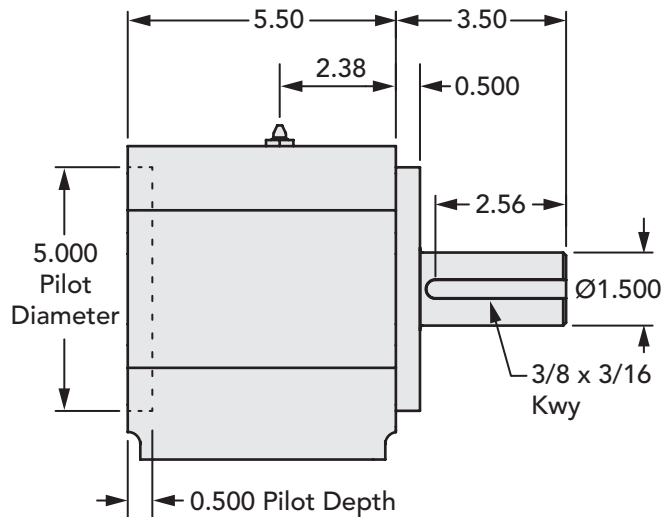
|                                                    |                                                                                                                                                                                                             |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input Standard                                     | SAE C 2-bolt or SAE C 4-bolt mount                                                                                                                                                                          |
| Input Pilot Diameter                               | 5.000"                                                                                                                                                                                                      |
| Input Pilot Depth                                  | 0.500"                                                                                                                                                                                                      |
| Input Pilot Sealing Method                         | Fiber Gasket                                                                                                                                                                                                |
| Input Bore Diameter and Depth                      | 14 tooth 12/24 spline - bore depth is 3.09"<br>17 tooth 12/24 spline - bore depth is 3.50"<br>1-1/2 - 3/8 x 3/16 keyed shaft - bore depth is 3.59"<br>1-3/4 - 7/16 x 7/32 keyed shaft - bore depth is 3.59" |
| Input Shaft Seal Type                              | Double-lip with Garter Spring                                                                                                                                                                               |
| Output Shaft Diameter                              | 1-1/2"                                                                                                                                                                                                      |
| Output Shaft Keyway                                | 3/8" x 3/16" keyway                                                                                                                                                                                         |
| Output Shaft Keyway Length                         | 2.56"                                                                                                                                                                                                       |
| Output Shaft Length                                | 3.00"                                                                                                                                                                                                       |
| Output Shaft Seal Type                             | Double-lip with Garter Spring                                                                                                                                                                               |
| Output Pilot Diameter                              | 5.000"/4.997"                                                                                                                                                                                               |
| Output Pilot Height                                | 0.500"                                                                                                                                                                                                      |
| Shaft Material                                     | 1144 Stressproof Steel                                                                                                                                                                                      |
| Bearing Type                                       | Tapered Roller Bearings                                                                                                                                                                                     |
| Standard Lubrication Method                        | Grease                                                                                                                                                                                                      |
| Optional Lubrication Methods                       | Please Consult Factory                                                                                                                                                                                      |
| Grease Fitting                                     | (1) Standard Zerk Fitting                                                                                                                                                                                   |
| Grease Capacity                                    | Minimum 4.3 oz.<br>Maximum 8.6 oz.                                                                                                                                                                          |
| Grease Type (recommended for typical applications) | NLGI #2                                                                                                                                                                                                     |
| Recommended Grease Base                            | Lithium                                                                                                                                                                                                     |
| Standard Mounting Orientation                      | Shaft Horizontal - Consult Factory for other Mounting Orientations                                                                                                                                          |
| Maximum Speed Without Modification                 | 1900 RPM                                                                                                                                                                                                    |
| Housing Material                                   | Cast Iron                                                                                                                                                                                                   |
| Housing Feet - Threaded Holes                      | (4) 1/2"-13 UNC x 1.00" deep                                                                                                                                                                                |
| Housing Grease Ports                               | 1/4-18 NPT                                                                                                                                                                                                  |
| Unit Weight                                        | 55 lbs                                                                                                                                                                                                      |



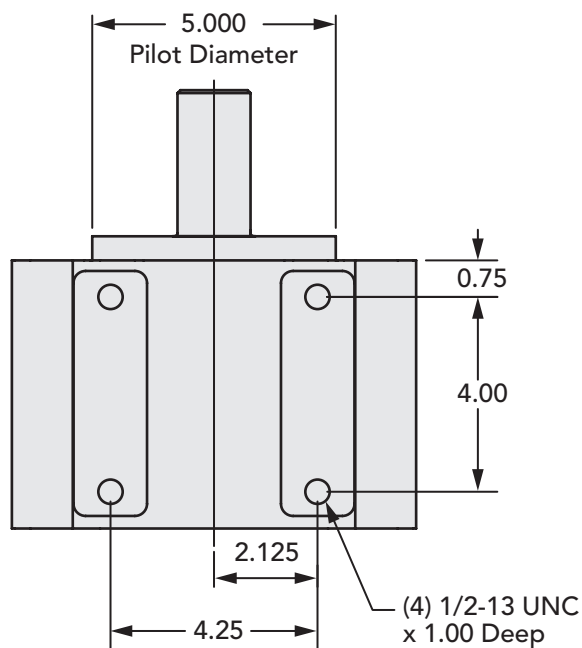
## Input End View



## Side View



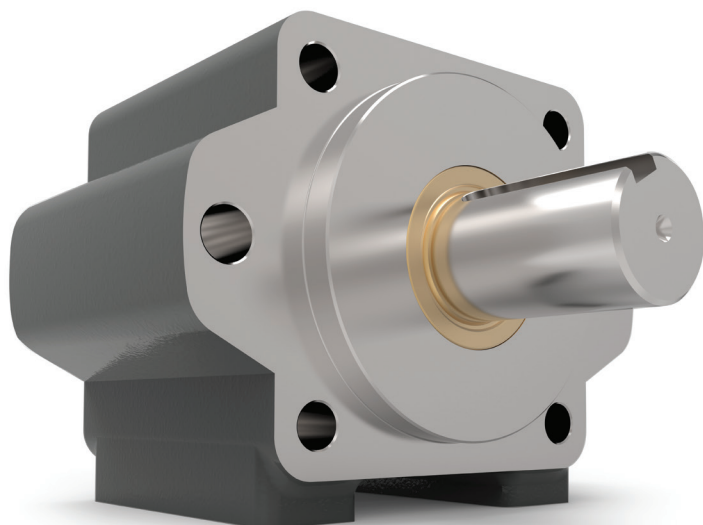
## Bottom View



## How to Order

### Standard 915 Series Models

| Part Number | Output Shaft - Keyway | Input Bore - Keyway   |
|-------------|-----------------------|-----------------------|
| 915-14S     | 1-1/2" - 3/8 x 3/16   | 14 Tooth 12/24 Spline |
| 915-17S     | 1-1/2" - 3/8 x 3/16   | 17 Tooth 12/24 Spline |
| 915-24      | 1-1/2" - 3/8 x 3/16   | 1-1/2" - 3/8 x 3/16   |
| 915-28      | 1-1/2" - 3/8 x 3/16   | 1-3/4" - 7/16 x 7/32  |

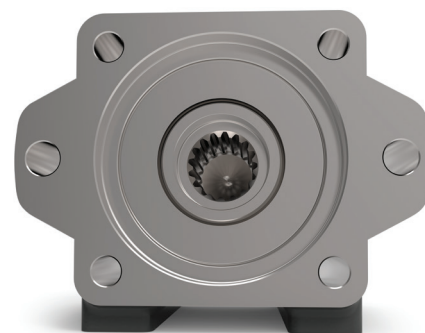
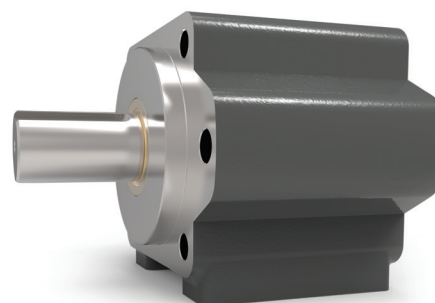


## Features

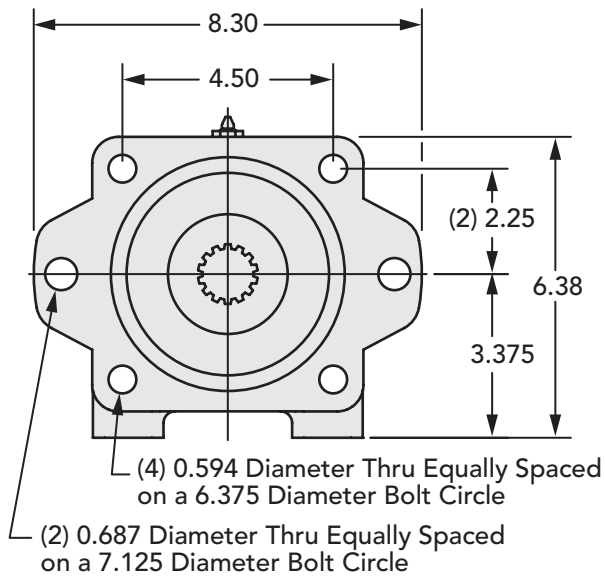
- SAE C - 2-bolt or 4-bolt mounting
- Extra Heavy Duty Tapered Roller Bearings
- May be either Face-mounted or Foot-mounted
- Provides a sturdy mounting base for the motor or pump
- Supports heavy radial and axial loads - protecting the hydraulic motor or pump
- Reduces downtime and maintenance costs
- Protects pump or motor shaft seal from harmful contaminants

### 928 Series Data

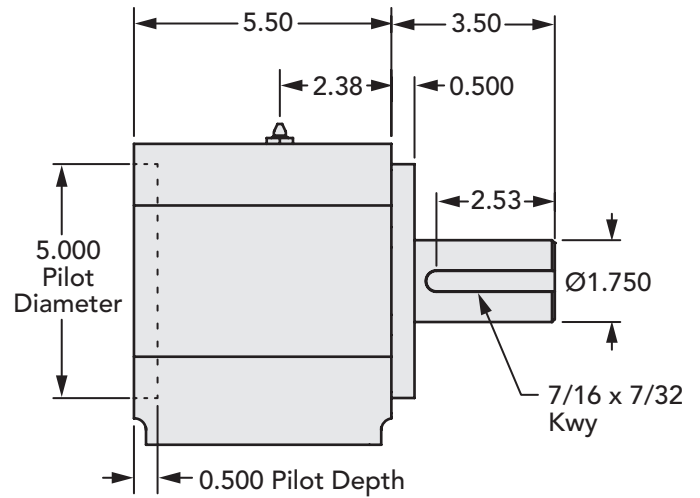
|                                                    |                                                                    |
|----------------------------------------------------|--------------------------------------------------------------------|
| Input Standard                                     | SAE C 2-bolt or SAE C 4-bolt mount                                 |
| Input Pilot Diameter                               | 5.000"                                                             |
| Input Pilot Depth                                  | 0.500"                                                             |
| Input Pilot Sealing Method                         | Fiber Gasket                                                       |
| Input Bore Diameter and Depth                      | 14 tooth 12/24 spline - bore depth is 3.09"                        |
|                                                    | 17 tooth 12/24 spline - bore depth is 3.50"                        |
|                                                    | 1-1/2 - 3/8 x 3/16 keyed shaft - bore depth is 3.59"               |
|                                                    | 1-3/4 - 7/16 x 7/32 keyed shaft - bore depth is 3.59"              |
| Input Shaft Seal Type                              | Double-lip with Garter Spring                                      |
| Output Shaft Diameter                              | 1-3/4"                                                             |
| Output Shaft Keyway                                | 7/16" x 7/32" keyway                                               |
| Output Shaft Keyway Length                         | 2.53"                                                              |
| Output Shaft Length                                | 3.00"                                                              |
| Output Shaft Seal Type                             | Double-lip with Garter Spring                                      |
| Output Pilot Diameter                              | 5.000"                                                             |
| Output Pilot Height                                | 0.500"                                                             |
| Shaft Material                                     | 1144 Stressproof Steel                                             |
| Bearing Type                                       | Tapered Roller Bearings                                            |
| Standard Lubrication Method                        | Grease                                                             |
| Optional Lubrication Methods                       | Please Consult Factory                                             |
| Grease Fitting                                     | (1) Standard Zerk Fitting                                          |
| Grease Capacity                                    | Minimum 4.3 oz.                                                    |
|                                                    | Maximum 8.6 oz.                                                    |
| Grease Type (recommended for typical applications) | NLGI #2                                                            |
| Recommended Grease Base                            | Lithium                                                            |
| Standard Mounting Orientation                      | Shaft Horizontal - Consult Factory for other Mounting Orientations |
| Maximum Speed Without Modification                 | 1900 RPM                                                           |
| Housing Material                                   | Cast Iron                                                          |
| Housing Feet - Threaded Holes                      | (4) 1/2"-13 UNC x 1.00" deep                                       |
| Housing Grease Ports                               | 1/4-18 NPT                                                         |
| Unit Weight                                        | 55 lbs                                                             |



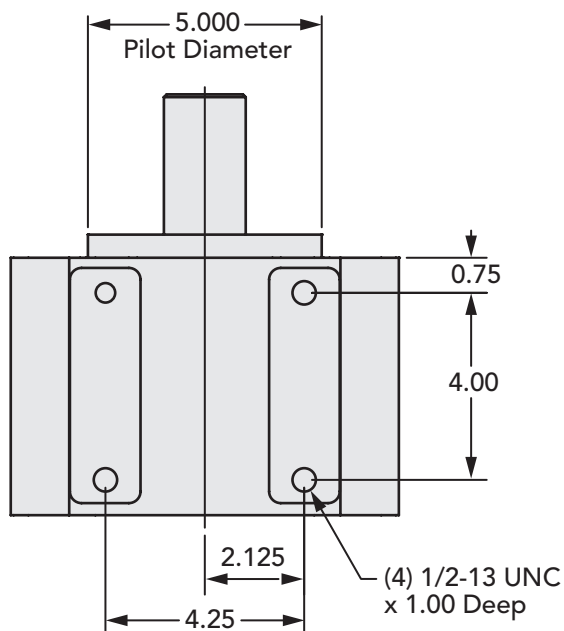
## Input End View



## Side View



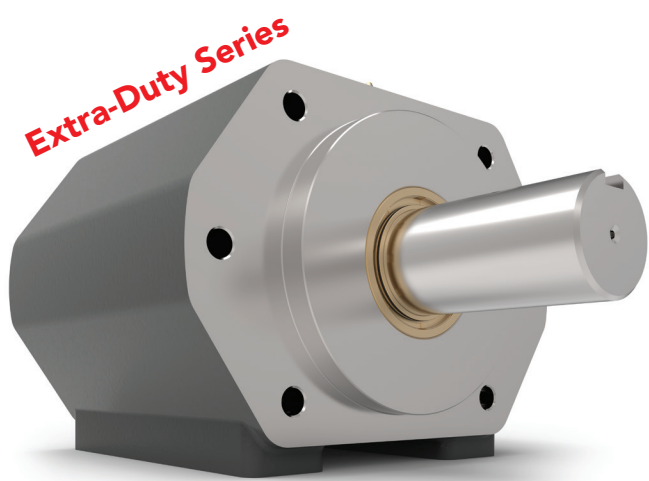
## Bottom View



## How to Order

### Standard 928 Series Models

| Part Number | Output Shaft - Keyway | Input Bore - Keyway   |
|-------------|-----------------------|-----------------------|
| 928-14S     | 1-3/4" - 7/16 x 7/32  | 14 Tooth 12/24 Spline |
| 928-17S     | 1-3/4" - 7/16 x 7/32  | 17 Tooth 12/24 Spline |
| 928-24      | 1-3/4" - 7/16 x 7/32  | 1-1/2" - 3/8 x 3/16   |
| 928-28      | 1-3/4" - 7/16 x 7/32  | 1-3/4" - 7/16 x 7/32  |



### Features

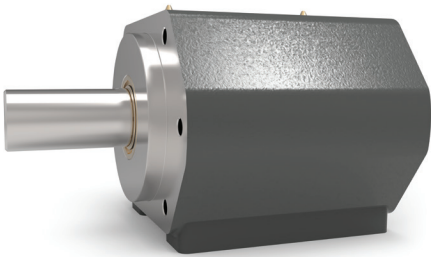
- SAE C - 2-bolt or 4-bolt mounting
- Heavy Duty Spherical Roller Bearings
- May be either Face-mounted or Foot-mounted
- Provides a sturdy mounting base for the motor or pump
- Supports heavy radial and axial loads - protecting the hydraulic motor or pump
- Reduces downtime and maintenance costs
- Protects pump or motor shaft seal from harmful contaminants

### Extra-Duty Series Enhancements:

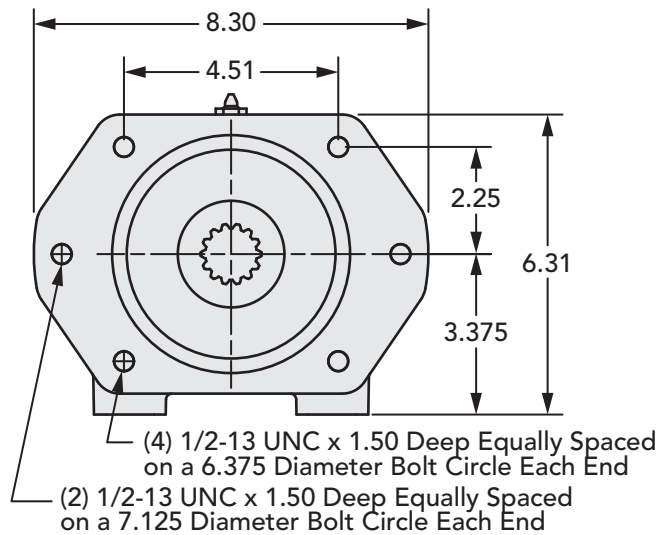
- Extended Housing
- Heat-Treated Shaft
- O-Ring Input Seal
- Spherical Roller Bearings
- Dual NPT Grease Zerk
- Double-Primary Lip Output Seal

### 950 Series Data

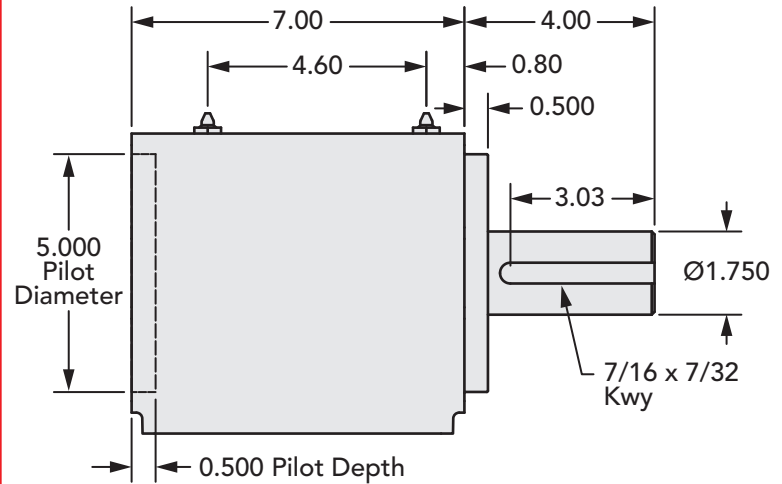
|                                                    |                                                                                                        |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Input Standard                                     | SAE C 2-bolt or SAE C 4-bolt mount                                                                     |
| Input Pilot Diameter                               | 5.000"                                                                                                 |
| Input Pilot Depth                                  | 0.500"                                                                                                 |
| Input Pilot Sealing Method                         | O-ring                                                                                                 |
| Input Bore Diameter and Depth                      | 14 tooth 12/24 Spline - bore depth is 3.50 inches<br>17 tooth 12/24 Spline - bore depth is 3.50 inches |
| Output Shaft Diameter                              | 1-3/4"                                                                                                 |
| Output Shaft Keyway                                | 7/16" x 7/32" keyway                                                                                   |
| Output Shaft Keyway Length                         | 3.25"                                                                                                  |
| Output Shaft Length                                | 3.50"                                                                                                  |
| Output Shaft Seal Type                             | Double Primary Lip Seal With Garter Springs                                                            |
| Output Pilot Diameter                              | 5.000"                                                                                                 |
| Output Pilot Height                                | 0.500"                                                                                                 |
| Shaft Material                                     | 8620 steel - Heat-treated                                                                              |
| Bearing Type                                       | Spherical Roller Bearing                                                                               |
| Standard Lubrication Method                        | Grease                                                                                                 |
| Optional Lubrication Methods                       | Please Consult Factory                                                                                 |
| Grease Fittings                                    | (2) Standard Zerk Fitting                                                                              |
| Grease Capacity                                    | Minimum 6.8 oz. (3.4 oz. per grease fitting)<br>Maximum 13.6 oz. (6.8 oz. per grease fitting)          |
| Grease Type (recommended for typical applications) | NLGI #2                                                                                                |
| Recommended Grease Base                            | Lithium                                                                                                |
| Standard Mounting Orientation                      | Shaft Horizontal - Consult Factory for other Mounting Orientations                                     |
| Maximum Speed Without Modification                 | 2500 RPM                                                                                               |
| Housing Material                                   | Cast Iron                                                                                              |
| Housing Feet - Threaded Holes                      | (4) 1/2"-13 UNC x 1.00" deep                                                                           |
| Housing Grease Ports                               | (2) 1/4-18 NPT                                                                                         |
| Unit Weight                                        | 70 lbs                                                                                                 |



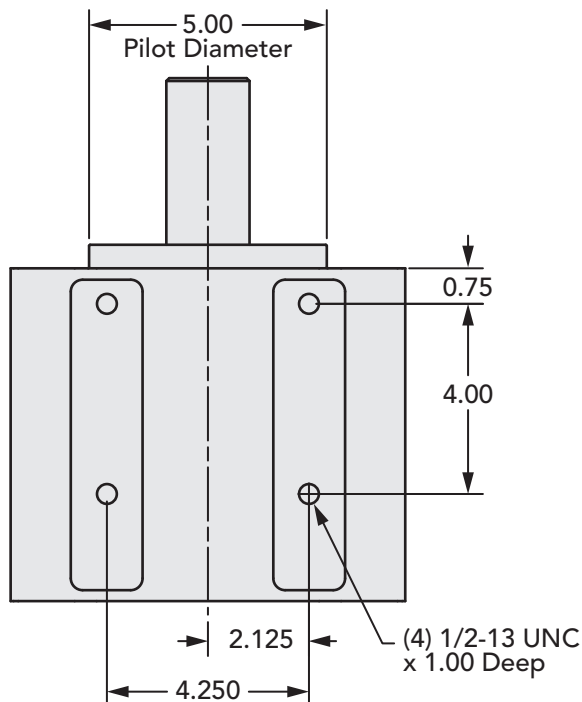
## Input End View



## Side View



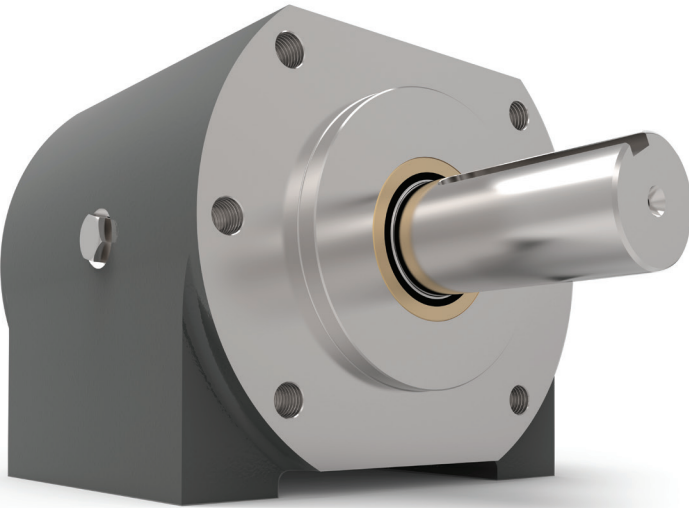
## Bottom View



## How to Order

### Standard 950 Series Models

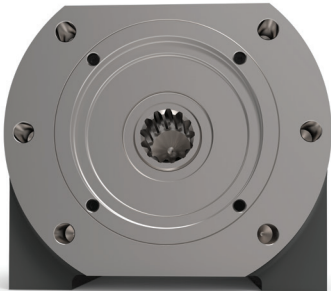
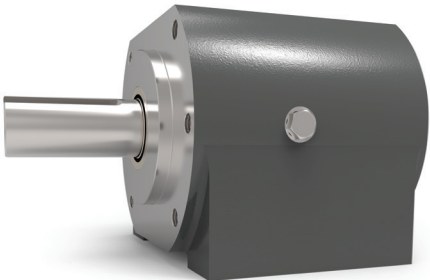
| Part Number | Output Shaft - Keyway | Input Bore - Keyway   |
|-------------|-----------------------|-----------------------|
| 950-14S     | 1-3/4" - 7/16 x 7/32  | 14 Tooth 12/24 Spline |
| 950-17S     | 1-3/4" - 7/16 x 7/32  | 17 Tooth 12/24 Spline |



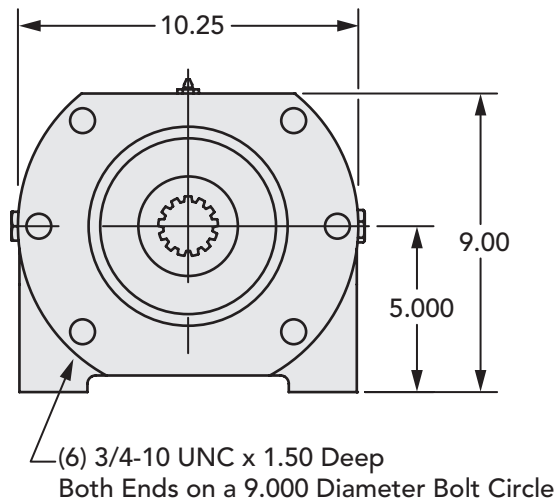
### Features

- SAE D - 2-bolt or 4-bolt mounting
- Extra Heavy Duty Tapered Roller Bearings
- May be either Face-mounted or Foot-mounted
- Provides a sturdy mounting base for the motor or pump
- Supports heavy radial and axial loads - protecting the hydraulic motor or pump
- Reduces downtime and maintenance costs
- Protects pump or motor shaft seal from harmful contaminants

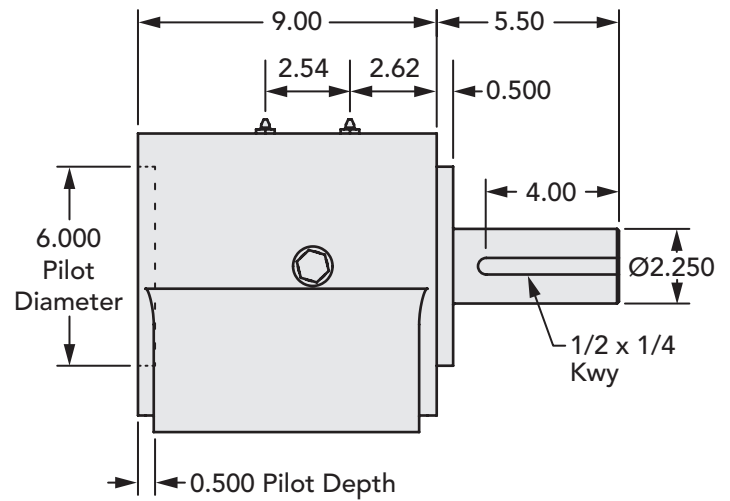
| 1136 Series Data                                   |                                                                                                     |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Input Standard                                     | SAE D 2-bolt or SAE D 4-bolt mount                                                                  |
| Input Pilot Diameter                               | 6.000"                                                                                              |
| Input Pilot Depth                                  | 0.500"                                                                                              |
| Input Pilot Sealing Method                         | Fiber Gasket                                                                                        |
| Input Bore Diameter and Depth                      | 13 tooth 8/16 spline - bore depth is 3.92"<br>1-3/4 - 7/16 x 7/32 keyed shaft - bore depth is 3.80" |
| Input Shaft Seal Type                              | Double-lip with Garter Spring                                                                       |
| Output Shaft Diameter                              | 2-1/4"                                                                                              |
| Output Shaft Keyway                                | 1/2" x 1/4" keyway                                                                                  |
| Output Shaft Keyway Length                         | 4.00"                                                                                               |
| Output Shaft Length                                | 5.00"                                                                                               |
| Output Shaft Seal Type                             | Double-lip with Garter Spring                                                                       |
| Output Pilot Diameter                              | 6.000"                                                                                              |
| Output Pilot Height                                | 0.500"                                                                                              |
| Shaft Material                                     | 1144 Stressproof Steel                                                                              |
| Bearing Type                                       | Tapered Roller Bearings                                                                             |
| Standard Lubrication Method                        | Grease                                                                                              |
| Optional Lubrication Methods                       | Please Consult Factory                                                                              |
| Grease Fitting                                     | (2) Standard Zerk Fitting                                                                           |
| Grease Capacity                                    | Minimum 20 oz. (10 oz. per grease fitting)<br>Maximum 30 oz. (15 oz. per grease fitting)            |
| Grease Type (recommended for typical applications) | NLGI #2                                                                                             |
| Recommended Grease Base                            | Lithium                                                                                             |
| Standard Mounting Orientation                      | Shaft Horizontal - Consult Factory for other Mounting Orientations                                  |
| Maximum Speed Without Modification                 | 2500 RPM                                                                                            |
| Housing Material                                   | Cast Iron                                                                                           |
| Housing Feet - Threaded Holes                      | (4) 3/4"-10 UNC x 1.50" deep                                                                        |
| Housing Grease Ports                               | 1/4-18 NPT                                                                                          |
| Unit Weight                                        | 195 lbs                                                                                             |



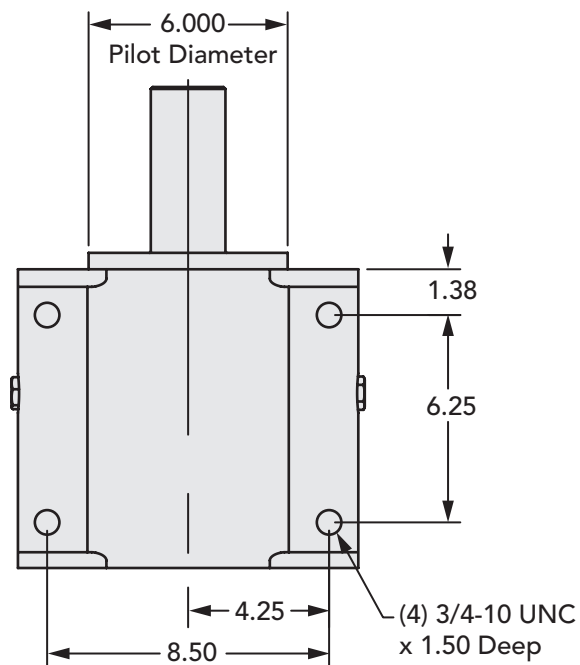
## Input End View



## Side View



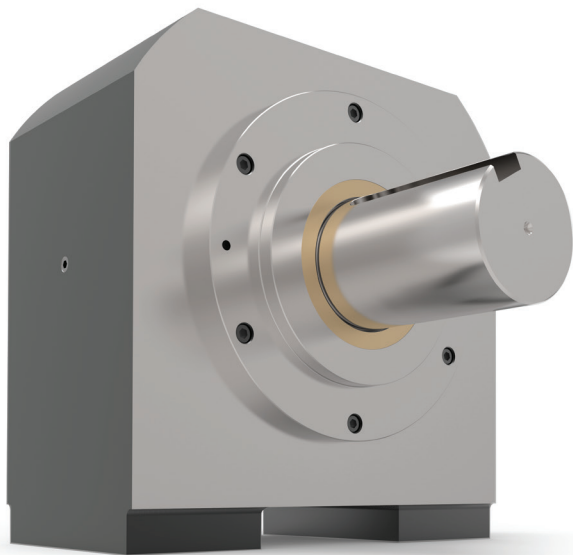
## Bottom View



## How to Order

### Standard 1136 Series Models

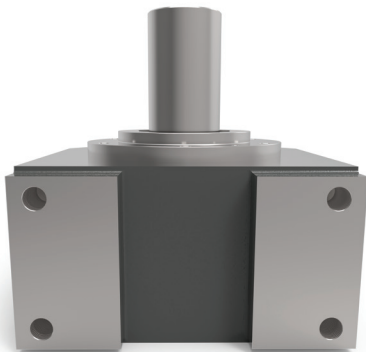
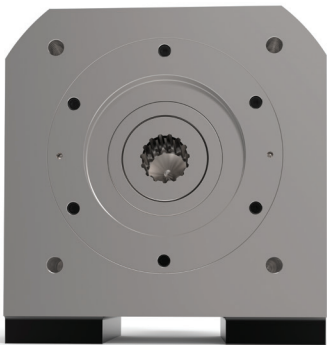
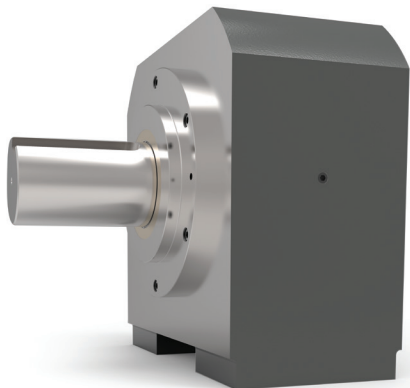
| Part Number | Output Shaft - Keyway | Input Bore - Keyway  |
|-------------|-----------------------|----------------------|
| 1136-13S    | 2-1/4" - 1/2 x 1/4    | 13 Tooth 8/16 Spline |
| 1136-28     | 2-1/4" - 1/2 x 1/4    | 1-3/4" - 7/16 x 7/32 |



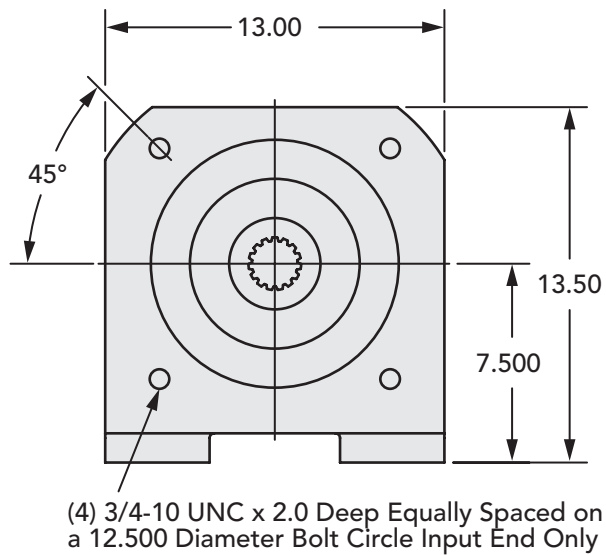
**Features**

- SAE E - 4-bolt mounting
- Extra Heavy Duty Tapered Roller Bearings
- May be either Face-mounted or Foot-mounted
- Provides a sturdy mounting base for the motor or pump
- Supports heavy radial and axial loads - protecting the hydraulic motor or pump
- Reduces downtime and maintenance costs
- Protects pump or motor shaft seal from harmful contaminants

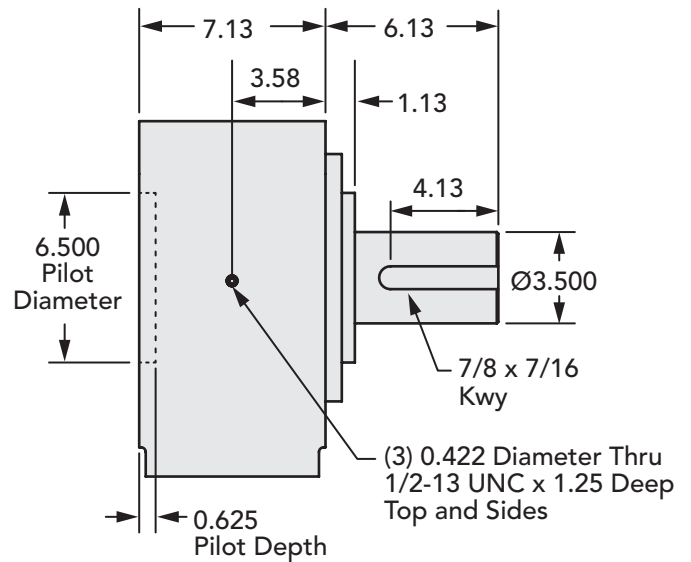
| 1250 Series Data                                   |                                                                    |
|----------------------------------------------------|--------------------------------------------------------------------|
| Input Standard                                     | SAE E 4-bolt mount                                                 |
| Input Pilot Diameter                               | 6.500"                                                             |
| Input Pilot Depth                                  | 0.625"                                                             |
| Input Pilot Sealing Method                         | Fiber Gasket                                                       |
| Input Bore Diameter and Depth                      | 13 tooth 8/16 spline - bore depth is 3.73"                         |
| Input Shaft Seal Type                              | Double-lip with Garter Spring                                      |
| Output Shaft Diameter                              | 3-1/2"                                                             |
| Output Shaft Keyway                                | 7/8" x 7/16" keyway                                                |
| Output Shaft Keyway Length                         | 4.13"                                                              |
| Output Shaft Length                                | 5.00"                                                              |
| Output Shaft Seal Type                             | Double-lip with Garter Spring                                      |
| Output Pilot Diameter                              | 6.500"                                                             |
| Output Pilot Height                                | 0.500"                                                             |
| Shaft Material                                     | 1144 Stressproof Steel                                             |
| Bearing Type                                       | Spherical Roller Bearings                                          |
| Standard Lubrication Method                        | Grease                                                             |
| Optional Lubrication Methods                       | Please Consult Factory                                             |
| Grease Fitting                                     | Optional                                                           |
| Grease Capacity                                    | Minimum 11 oz.<br>Maximum 22 oz.                                   |
| Grease Type (recommended for typical applications) | NLGI #2                                                            |
| Recommended Grease Base                            | Lithium                                                            |
| Standard Mounting Orientation                      | Shaft Horizontal - Consult Factory for other Mounting Orientations |
| Maximum Speed Without Modification                 | 1500 RPM                                                           |
| Housing Material                                   | Cast Iron                                                          |
| Housing Feet - Threaded Holes                      | (4) 1"-8 UNC x 2.00" deep                                          |
| Housing Grease Ports                               | (3) 1/2-13 UNC X 1.25 deep                                         |
| Unit Weight                                        | 250 lbs                                                            |



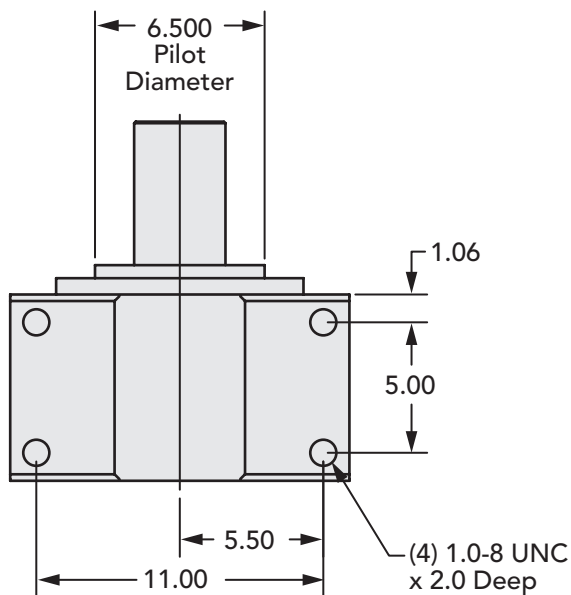
## Input End View



## Side View



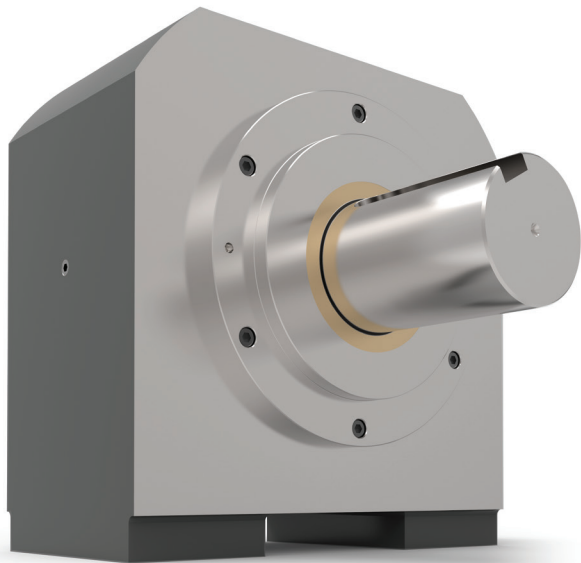
## Bottom View



## How to Order

### Standard 1250 Series Models

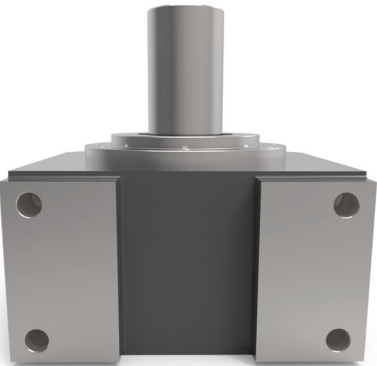
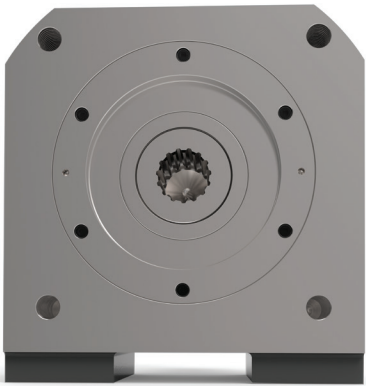
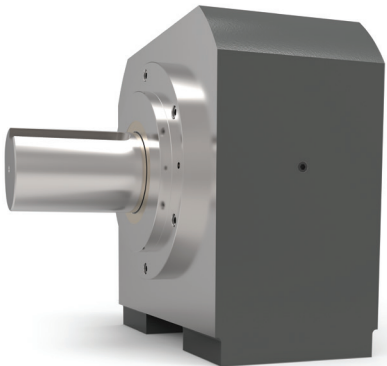
| Part Number | Output Shaft - Keyway | Input Bore - Keyway  |
|-------------|-----------------------|----------------------|
| 1250-13S    | 3-1/2" - 7/8 x 7/16   | 13 Tooth 8/16 Spline |



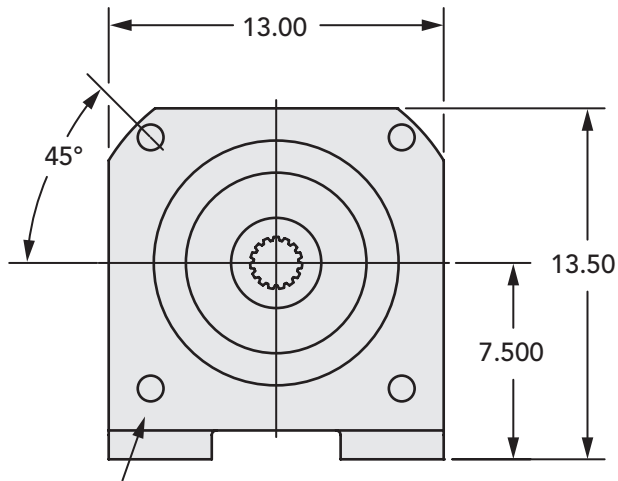
## Features

- SAE F - 4-bolt mounting
- Extra Heavy Duty Tapered Roller Bearings
- May be either Face-mounted or Foot-mounted
- Provides a sturdy mounting base for the motor or pump
- Supports heavy radial and axial loads - protecting the hydraulic motor or pump
- Reduces downtime and maintenance costs
- Protects pump or motor shaft seal from harmful contaminants

| 1500 Series Data                                    |                                                                    |
|-----------------------------------------------------|--------------------------------------------------------------------|
| Input Standard                                      | SAE F 4-bolt mount                                                 |
| Input Pilot Diameter                                | 7.000"                                                             |
| Input Pilot Depth                                   | 0.625"                                                             |
| Input Pilot Sealing Method                          | Fiber Gasket                                                       |
| Input Bore Diameter and Depth                       | 15 tooth 8/16 spline - bore depth is 3.37"                         |
| Input Shaft Seal Type                               | Double-lip with Garter Spring                                      |
| Output Shaft Diameter                               | 3-1/2"                                                             |
| Output Shaft Keyway                                 | 7/8" x 7/16" keyway                                                |
| Output Shaft Keyway Length                          | 4.13"                                                              |
| Output Shaft Length                                 | 5.00"                                                              |
| Output Shaft Seal Type                              | Double-lip with Garter Spring                                      |
| Output Pilot Diameter                               | 7.000"                                                             |
| Output Pilot Height                                 | 0.500"                                                             |
| Shaft Material                                      | 1144 Stressproof Steel                                             |
| Bearing Type                                        | Spherical Roller Bearings                                          |
| Standard Lubrication Method                         | Grease                                                             |
| Optional Lubrication Methods                        | Please Consult Factory                                             |
| Grease Fitting                                      | Optional                                                           |
| Grease Capacity                                     | Minimum 11 oz.<br>Maximum 22 oz.                                   |
| Grease type (recommended f or typical applications) | NLGI #2                                                            |
| Recommended Grease Base                             | Lithium                                                            |
| Standard Mounting Orientation                       | Shaft Horizontal - Consult Factory for other Mounting Orientations |
| Maximum Speed Without Modification                  | 1500 RPM                                                           |
| Housing Material                                    | Cast Iron                                                          |
| Housing Feet - Threaded Holes                       | (4) 1"-8 UNC x 2.00" deep                                          |
| Housing Grease Ports                                | (3) 1/2-13 UNC X 1.25 deepDP                                       |
| Unit Weight                                         | 250 lbs.                                                           |

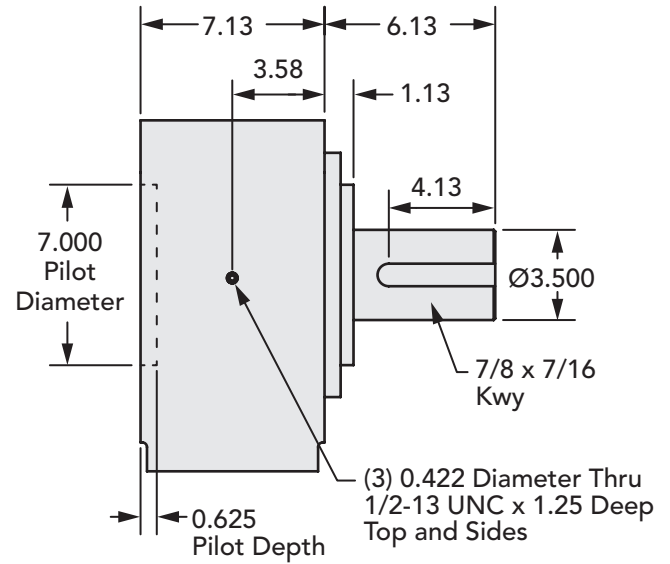


## Input End View

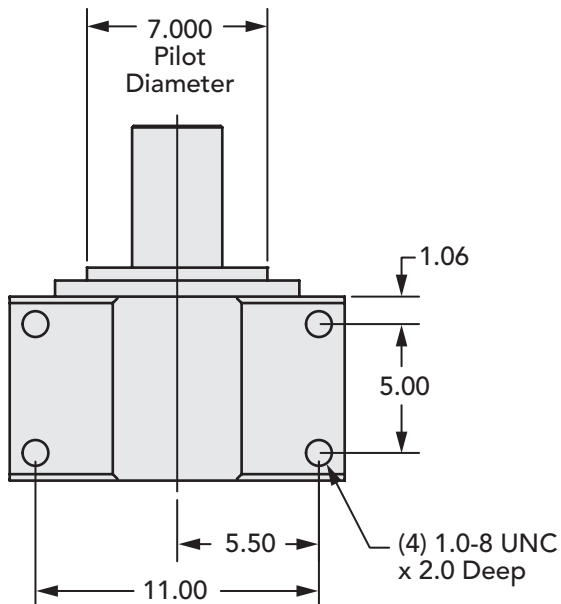


(4) 1.0-8 UNC x 2.0 Deep Equally Spaced on a 13.781 Diameter Bolt Circle Input End Only

## Side View



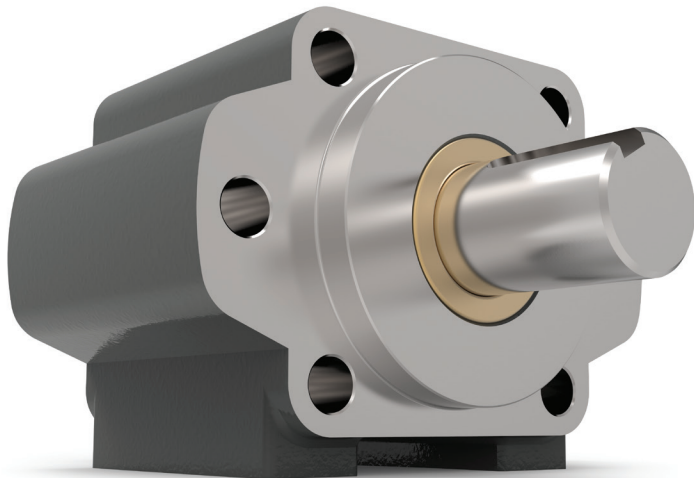
## Bottom View



## How to Order

### Standard 1500 Series Models

| Part Number | Output Shaft - Keyway | Input Bore - Keyway  |
|-------------|-----------------------|----------------------|
| 1500-15S    | 3-1/2" - 7/8 x 7/16   | 15 Tooth 8/16 Spline |

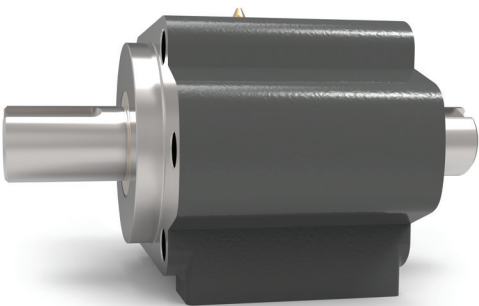


**Features**

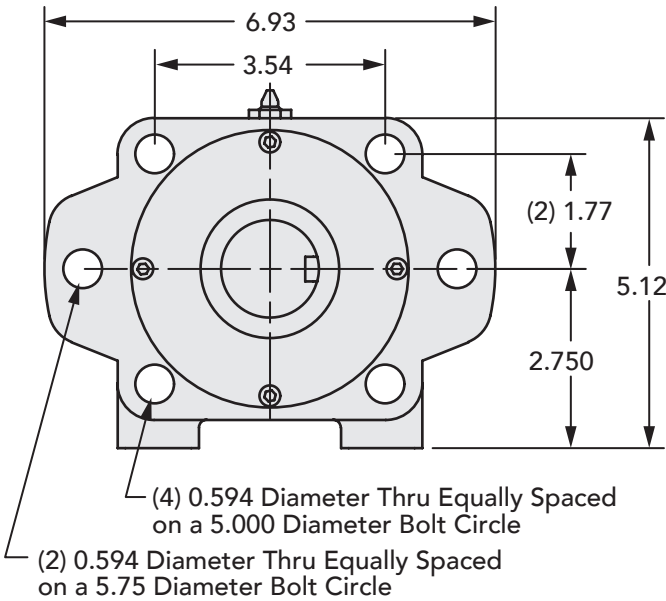
- Double-male shaft configuration with dual seals
- SAE B – 2-bolt or 4-bolt mounting pattern
- Heavy Duty Tapered Roller Bearings
- May be either Face-mounted or Foot-mounted
- Provides sturdy mounting base
- Supports heavy radial and axial loads
- Reduces downtime and maintenance costs

**615M Series Data**

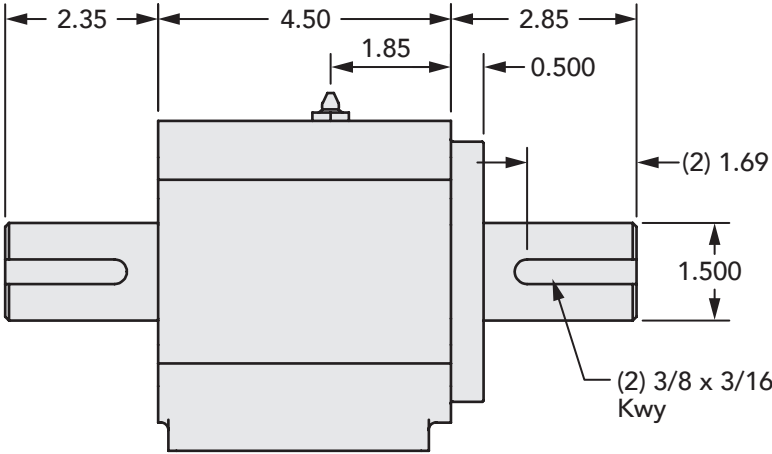
|                                                    |                                                                    |
|----------------------------------------------------|--------------------------------------------------------------------|
| Face Mount Pattern                                 | SAE B 2-bolt or SAE B 4-bolt                                       |
| Input Shaft Diameter                               | 1-1/2"                                                             |
| Input Shaft Keyway                                 | 3/8" x 3/16" keyway                                                |
| Input Shaft Keyway Length                          | 1.69"                                                              |
| Input Shaft Length                                 | 2.35"                                                              |
| Input Shaft Seal Type                              | Double-lip with Garter Spring                                      |
| Input Pilot                                        | N/A                                                                |
| Input Plate Seal Type                              | O-Ring                                                             |
| Output Shaft Diameter                              | 1-1/2"                                                             |
| Output Shaft Keyway                                | 3/8" x 3/16" keyway                                                |
| Output Shaft Keyway Length                         | 1.69"                                                              |
| Output Shaft Length                                | 2.35"                                                              |
| Output Shaft Seal Type                             | Double-lip with Garter Spring                                      |
| Output Pilot Diameter                              | 4.000"                                                             |
| Output Pilot Height                                | 0.500"                                                             |
| Shaft Material                                     | 1144 Stressproof Steel                                             |
| Bearing Type                                       | Tapered Roller Bearings                                            |
| Standard Lubrication Method                        | Grease                                                             |
| Optional Lubrication Methods                       | Please Consult Factory                                             |
| Grease Fitting                                     | (1) Standard Zerk Fitting                                          |
| Grease Capacity                                    | Minimum 2.2 oz.<br>Maximum 4.4 oz.                                 |
| Grease Type (recommended for typical applications) | NLGI #2                                                            |
| Recommended Grease base                            | Lithium                                                            |
| Standard mounting orientation                      | Shaft Horizontal - Consult Factory for other Mounting Orientations |
| Maximum Speed Without Modification                 | 2300 RPM                                                           |
| Housing Material                                   | Cast Iron                                                          |
| Housing Feet - Threaded Holes                      | (4) 7/16"-14 UNC x 0.75" deep                                      |
| Housing Grease Ports                               | 1/4-18 NPT                                                         |
| Unit Weight                                        | 30 lbs                                                             |



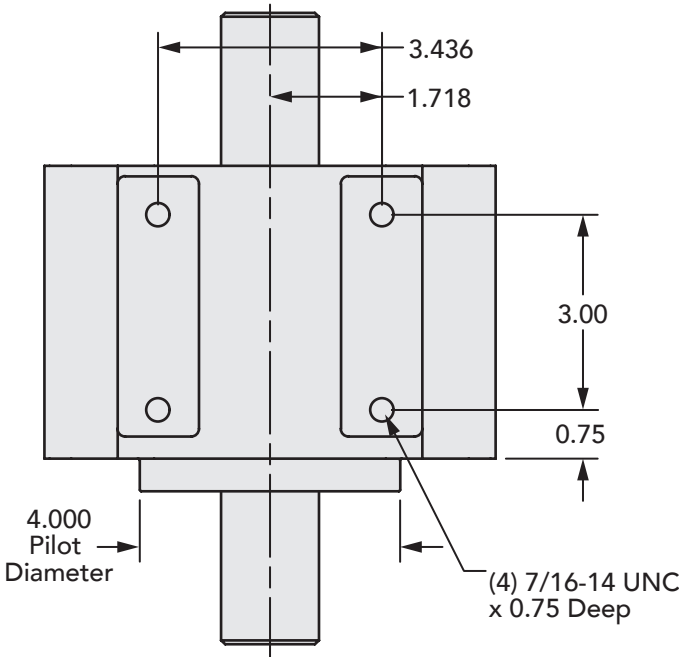
Input End View



Side View

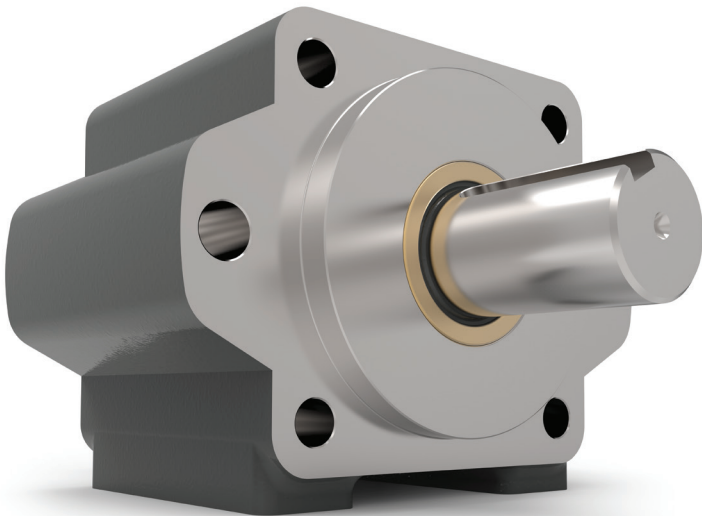


Bottom View



How to Order

| Standard 615M Series Models |                       |                      |
|-----------------------------|-----------------------|----------------------|
| Part Number                 | Output Shaft - Keyway | Input Shaft - Keyway |
| 615M                        | 1-1/2" - 3/8 x 3/16   | 1-1/2" - 3/8 x 3/16  |

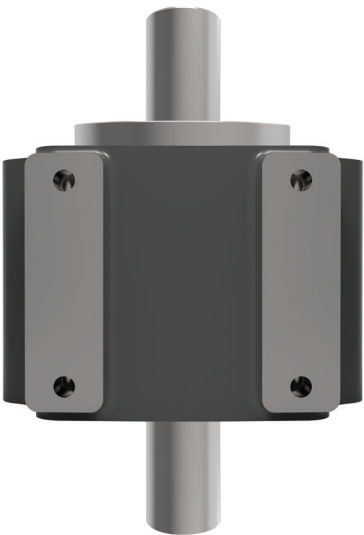
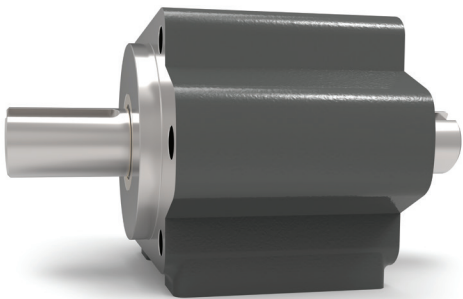


**Features**

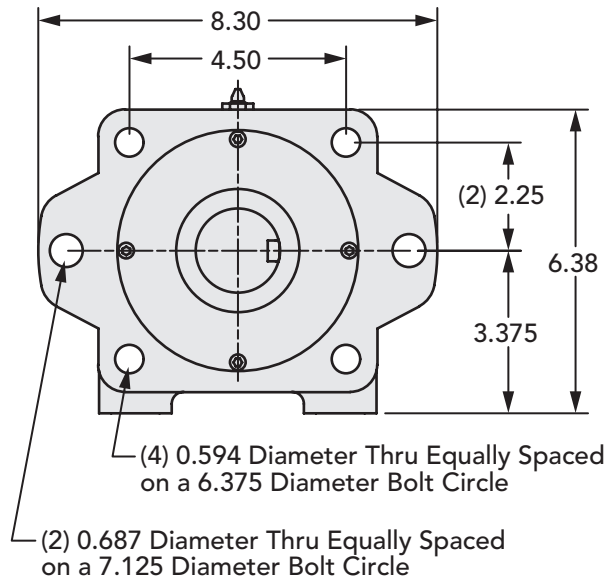
- Double-male shaft configuration with dual seals
- SAE C - 2-bolt or 4-bolt mounting pattern
- Extra Heavy Duty Tapered Roller Bearings
- May be either Face-mounted or Foot-mounted
- Provides sturdy mounting base
- Supports heavy radial and axial loads
- Reduces downtime and maintenance costs

**928M Series Data**

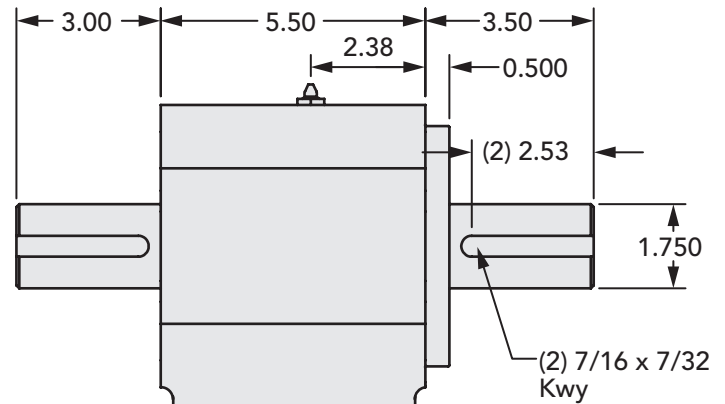
|                                                    |                                                                    |
|----------------------------------------------------|--------------------------------------------------------------------|
| Face Mount Pattern                                 | SAE C 2-bolt or SAE C 4-bolt                                       |
| Input Shaft Diameter                               | 1-3/4"                                                             |
| Input Shaft Keyway                                 | 7/16" x 7/32" keyway                                               |
| Input Shaft Keyway Length                          | 2.53"                                                              |
| Input Shaft Length                                 | 3.00"                                                              |
| Input Shaft Seal Type                              | Double-lip with Garter Spring                                      |
| Input Pilot                                        | N/A                                                                |
| Input Plate Seal Type                              | O-Ring                                                             |
| Output Shaft Diameter                              | 1-3/4"                                                             |
| Output Shaft Keyway                                | 7/16" x 7/32" keyway                                               |
| Output Shaft Keyway Length                         | 2.53"                                                              |
| Output Shaft Length                                | 3.00"                                                              |
| Output Shaft Seal Type                             | Double-lip with Garter Spring                                      |
| Output Pilot Diameter                              | 5.000"                                                             |
| Output Pilot Height                                | 0.500"                                                             |
| Shaft Material                                     | 1144 Stressproof Steel                                             |
| Bearing Type                                       | Tapered Roller Bearings                                            |
| Standard Lubrication Method                        | Grease                                                             |
| Optional Lubrication Methods                       | Please Consult Factory                                             |
| Grease Fitting                                     | (1) Standard Zerk Fitting                                          |
| Grease Capacity                                    | Minimum 4.3 oz.<br>Maximum 8.6 oz.                                 |
| Grease Type (recommended for typical applications) | NLGI #2                                                            |
| Recommended Grease Base                            | Lithium                                                            |
| Standard Mounting Orientation                      | Shaft Horizontal - Consult Factory for other Mounting Orientations |
| Maximum Speed Without Modification                 | 1900 RPM                                                           |
| Housing Material                                   | Cast Iron                                                          |
| Housing Feet - Threaded Holes                      | (4) 1/2"-13 UNC x 1.00" deep                                       |
| Housing Grease Ports                               | 1/4-18 NPT                                                         |
| Unit Weight                                        | 55 lbs                                                             |



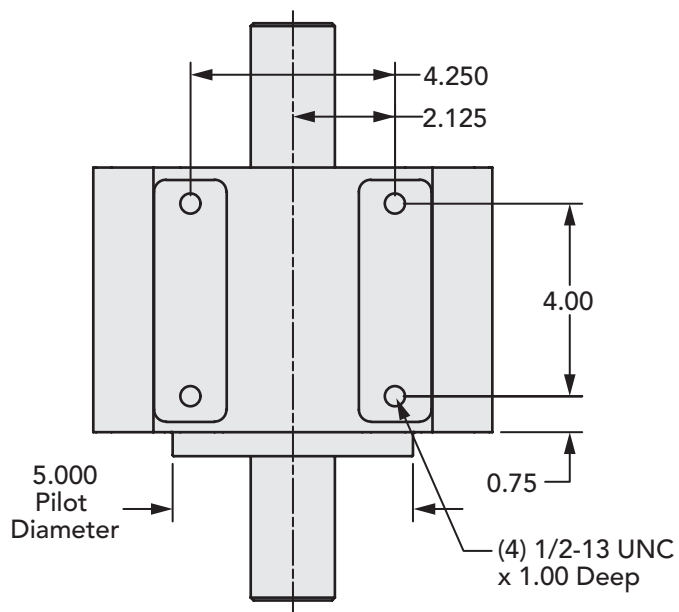
## Input End View



## Side View



## Bottom View



## How to Order

### Standard 928M Series Models

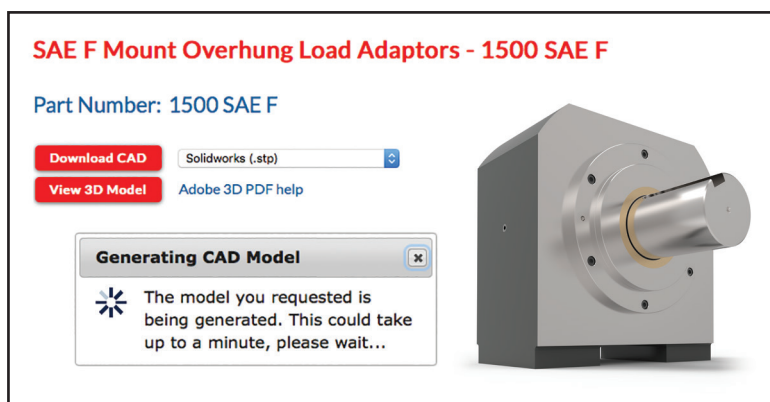
| Part Number | Output Shaft - Keyway | Input Shaft - Keyway |
|-------------|-----------------------|----------------------|
| 928M        | 1-3/4" - 7/16 x 7/32  | 1-3/4" - 7/16 x 7/32 |

## Dimensional Criteria

- Standard unit may be selected for fitting-up to the hydraulic motor or pump dimensions
- CAD files may be downloaded from website to check for fit or detail drawings are available from factory
- Modifications to standard dimensions are available as needed
  - Please see Specials pages in catalog for examples of modifications we have done
  - Modifications not shown are also possible, please contact factory
  - Please contact factory for quote on special modifications

## Performance Criteria

- If desired, Zero-Max Engineering will analyze the application and advise
  - Bearing lifetime,
  - Strength of shaft connections, and
  - Make lubrication recommendations
- Info needed to analyze application includes:
  - **Horsepower (HP)**
    - If unknown, please provide Pressure and Flow Rate through motor /pump
  - **Speed (rpm)**
  - **Overhung Load Information**
    - If pulley, need to know diameter and the distance from load center to the face of OHLA output pilot – see illustration
    - If a fan or blower, need to know the radial load, thrust load (and direction of thrust), and weight of fan
    - If other type of load connection, please provide equivalent radial and thrust loads (and direction of thrust) or provide a sketch for review
  - **Mounting Orientation**
    - Horizontal (shaft parallel to ground)
    - Vertical, shaft-up (shaft pointing at the sky)
    - Vertical, shaft-down (shaft pointing at the ground)
  - **Hydraulic Motor or Pump**
    - Part number, catalog page, or drawing of motor/pump showing shaft and pilot detail
    - Info is needed to confirm fit-up to OHLA, and for shaft strength calculations
  - **If any special operating environment requirements, please advise**
    - Temperature extremes
    - Chemical exposure
    - Washdown
    - Underwater application
    - Other...



Zero-Max Configurable  
3D CAD Downloads.  
[www.zero-max.com](http://www.zero-max.com)

## Some of the special features we can add:

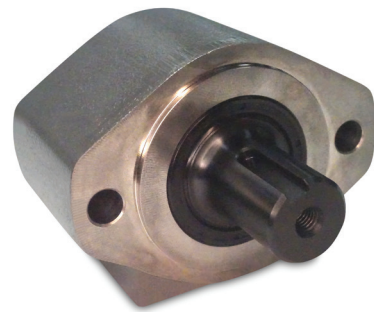
- Double-Male Shafts
- Drilled-and-Tapped Shaft End
- External Threaded Shaft-End
- Stepped Shoulder on Shaft for Retention / Positioning of Mounted Component
- Face Seals
- SAE or NPT Ports
- Pre-Greased Units
- Permanently-Lubed Units
- Breather Plugs
- Add-on Seal Carriers
- QPQ Finish for Corrosion Protection / Seal Life
- Tapered Output Shafts
- Stainless Steel Shafts
- Nickel-Plated Housings
- Custom Output Seals
- Tapped Mounting Holes
- Transition Between 2 SAE Mounting Sizes
- Other Features - as needed - please inquire...



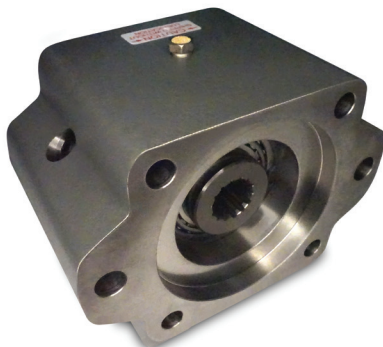
- Drilled-and-Tapped Shaft-End



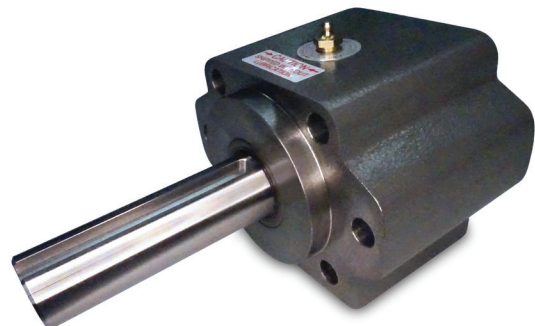
- Double-Male Shaft



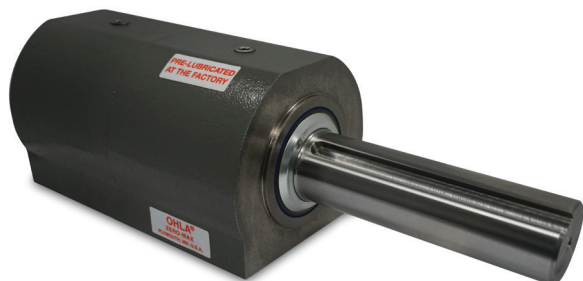
- QPQ Finish on Shaft for Corrosion-Protection and Enhanced Seal Life



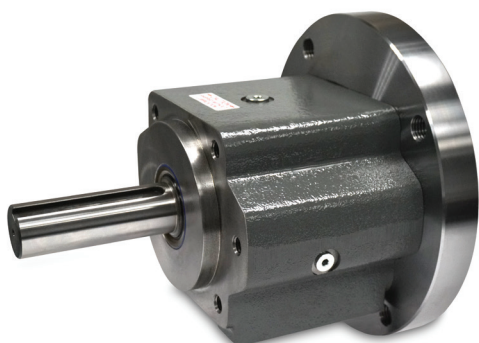
- Breather Plug
- Custom Splined Shafts



- Extended Shaft Length



- Pre-greased and Plugged / Lubed-for-Life
- Extended Housing for Increased Bearing Stance and Longer Lifetime
- Face Seal for Added Protection



- Adaptor Plate for Non-SAE Motors/Pumps or for Transitioning 2 Different SAE Mounts
- SAE O-ring Ports for Circulating Oil Lubrication



- QPQ Shaft
- Internal Seals for Vertical, Shaft-up Mounting
- O-Ring Ports for Circulating Oil Lubrication



- Plugged for use in a Wet Environment
- Add-On Seal Carrier



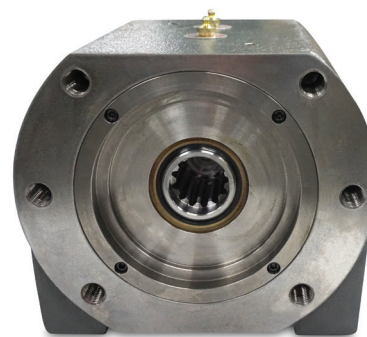
- Add-on Seal Carrier for Mechanical Seal or Special Seals
- External Threaded Shaft-End Including Cross-drilled Hole for Securing a Castellated Nut
- Tapered Output Shaft with Keyway



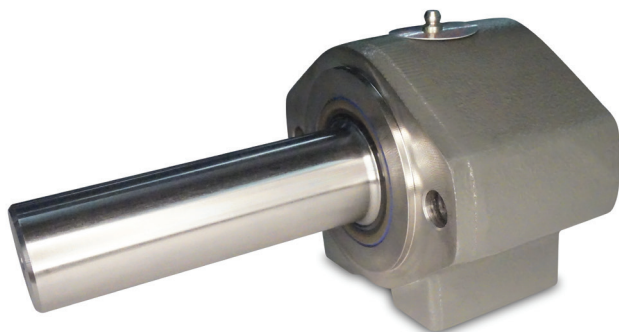
- Double Male OHLA
- QPQ Shaft
- Closed End Keyway
- Nickel Plated Housing
- Special Seals



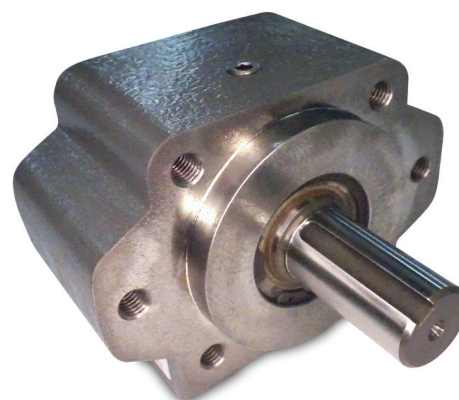
- Shortened Housing for Weight Reduction
- Speed Sensor Port



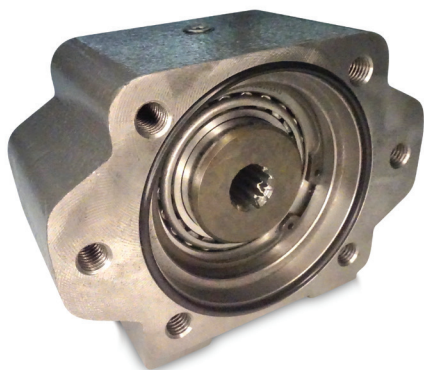
- DIN Splines
- Custom Splines



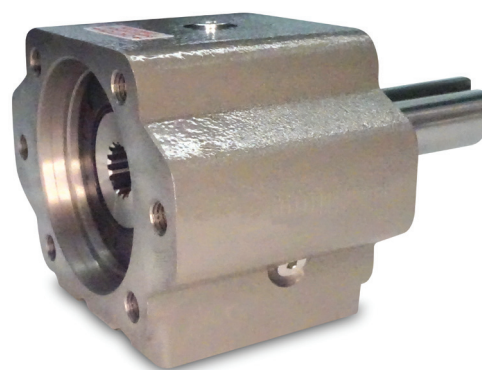
- Keyless Shaft for use with Keyless Locking Devices



- NPT Lube Port
- Retaining Ring for High Pressure Seal Retention



- Input Pilot
- O-Ring Seal



- SAE O-Ring Lube Ports Top and Side

# ***PRECISE. RELIABLE. ROBUST. AVAILABLE.***



## **CD® Couplings**

High-performance couplings that outperform and outlast bellows and steel disc designs. The unique design of the composite disc enables the CD Couplings to withstand punishing applications and deliver high precision performance. Fully Customizable.



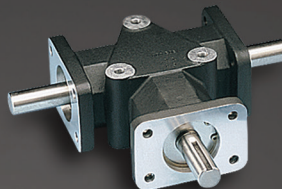
## **Keyless Shaft Locking Devices**

ETP® keyless connections and Posi-Lok® keyless bushings provide quick, easy and accurate assembly of mounted shaft components. Both inch and metric bore sizes are available from stock.



## **ServoClass® Couplings**

Designed for demanding servomotor applications. Zero backlash, high torsional stiffness, high speed design. Features flexible metal discs for high misalignment capacity and keyless clamp-type mounting hubs.



## **Crown Gear Drives**

Available in 5-sizes, 3 configurations, and with 1:1 and 2:1 ratios. High quality AGMA class 10 spiral bevel gears. Stainless steel shafts and either black anodized or IP65-Rated nickel-plated aluminum housing.



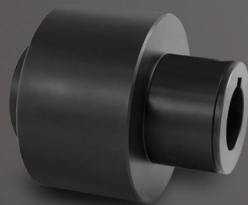
## **Schmidt Offset Couplings**

Designed to handle high amounts (up to 17") of parallel shaft offset with constant angular velocity. Standard models with torque capacities up to 459,000 in-lbs and extensive custom capabilities.



## **Adjustable Speed Drives**

Easy to install and maintenance free. Zero-Max® Drives offer infinitely variable speeds from 0 rpm to 1/4 of input rpm. 5 models with torque ranges from 12 in-lbs to 200 in-lbs.



## **Overload Safety Couplings**

Torque Tender® Couplings provide reliable overload protection in any mechanical power transmission system. Full selection of styles and sizes with set-point torque ranges from 3 to 3,000 in-lbs.



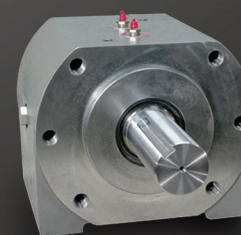
## **Roh'Lix® Linear Actuators**

Simple conversion of rotary motion into precise linear motion. Available in five models and multiple configurations. Roh'Lix actuators have thrust ratings from 5 to 200 lbs. All models feature built-in overload protection.



## **Control-Flex Couplings**

Zero backlash couplings designed for encoder and instrumentation type applications. Features high misalignment capacity, constant velocity, and an electrically isolated hub design.



## **OHLA® Overhung Load Adaptors**

Designed to protect hydraulic motors and pumps from radial/axial loads and to provide additional seal protection. 11 models available for mounts from SAE A to SAE F. Fully customizable.

Warranty. Zero-Max, Inc. the manufacturer, warrants that for a period of 12 months from date of shipment it will repair, or at its option, replace any new apparatus which proves defective in material or workmanship, or which does not conform to applicable drawings and specifications approved by the manufacturer. All repairs and replacements shall be F.O.B. factory. All claims must be made in writing to the manufacturer. • In no event and under no circumstances shall manufacturer be liable for (a) damages in shipment; (b) failures or damages due to misuse, abuse, improper installation or abnormal conditions of temperature, dirt, water or corrosives; (c) failures due to operation, intentional or otherwise, above rated capacities, and (d) non-authorized expenses for removal, inspection, transportation, repair or rework. Nor shall manufacturer ever be liable for consequential and incidental damages, or in any amount greater than the purchase price of the apparatus. • Zero Max, Inc. reserves the right to discontinue models or to change specifications at any time without notice. No discontinuance or change shall create any liability on the part of Zero-Max, Inc. in respect to its products in the hands of customers or products on order not incorporating such changes even though delivered after any such change. • This warranty is in LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING (BUT NOT LIMITED TO) ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE TERMS OF THIS WARRANTY CONSTITUTE ALL BUYER'S OR USER'S SOLE AND EXCLUSIVE REMEDY, AND ARE IN LIEU OF ANY RIGHT TO RECOVER FOR NEGLIGENCE, BREACH OF WARRANTY, STRICT TORT LIABILITY OR UPON ANY OTHER THEORY. Any legal proceedings arising out of the sale or use of this apparatus must be commenced within 18 months of the date of purchase. • CAUTION: Rotating equipment must be guarded. Also refer to OSHA specifications and recommendations. • Zero-Max®, CD®, ETP®, ServoClass®, Torq-Tender®, Posi-Lok®, Roh'Lix®, and OHLA® are registered trademarks of Zero-Max, Inc. In U.S.A.

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