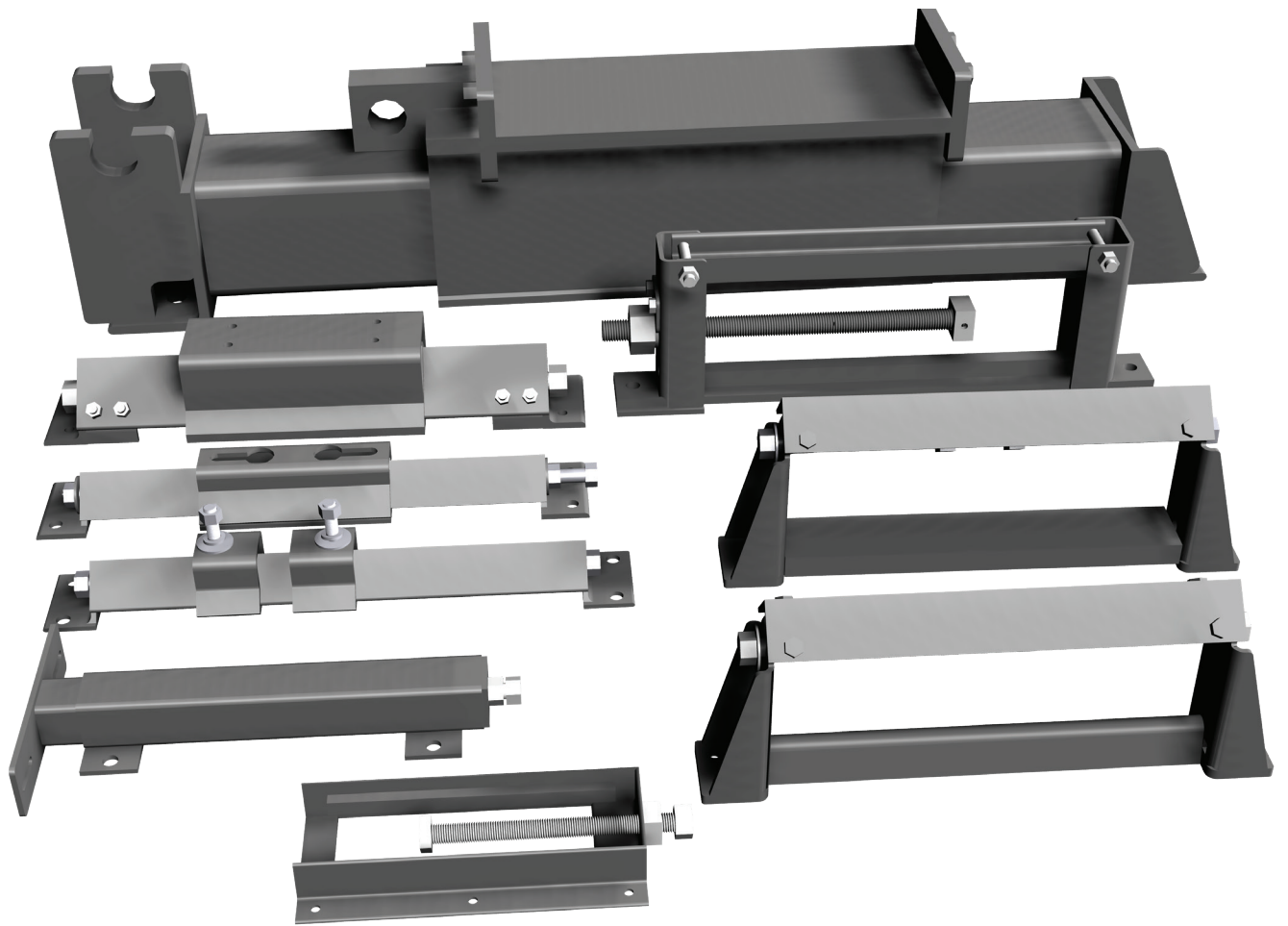


ENGINEERING & DIMENSIONS

# TAKE-UP FRAMES



Take-Up Interchange .....4, 5

Precision Heavy Duty (PHD)..... 6, 7

Precision Hydraulic Heavy Duty (PHYD).....8, 9  
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Precision Protected Top Angle (PPA)  
for channel bottom housings..... 16

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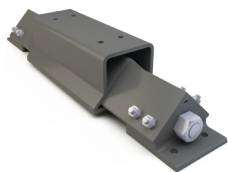
Precision Slide Tube (PST)..... 18

ACME threaded rods are standard on PPI take-up frames.

ACME threaded rods are less likely to lock up from material build-up or corrosion. ACME threads are also stronger due to the thread design. This thread design is capable of holding more tension in the linear direction that they are used in a take-up which makes the threads less likely to strip or break.

Operation & Maintenance manuals are available for download from our website, [www.ppi-global.com](http://www.ppi-global.com).

- Take-Up Frame Instructions
- PHYD Take-Up Frame Instructions
- PHYD Selection
- PHYD Cylinder Guide
- PCP Hydraulic Conversion Guide
- Hydraulic Hand Pump Operation and Maintenance Manual



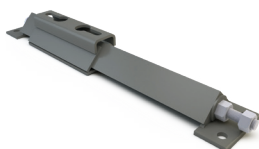
### HEAVY DUTY (PHD) TAKE-UP FRAMES

Heavy Duty Take-Up Frames are made of welded and bolted steel construction. The adjusting screw, which is fully protected, offers maximum strength and ease of adjustment. Also available in extra heavy duty



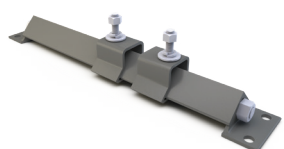
### HYDRAULIC CYLINDER (HYD)

- Rod end trunnion mount; NFFA style MT1
- Standard Series 2HD cylinder with clevis and pin for PHYD
- Standard cylinders have lip seals, breathers, and SAE ports



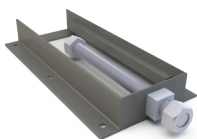
### MEDIUM DUTY (PMD) TAKE-UP FRAMES

PPI Medium Duty Take-Up Frames offer convenience with the ability to use with ball, spherical and sleeve bearings, as well as extra strength due to a one-piece saddle. The adjusting screw is protected from falling material by the steel angle. The adjusting screw is always in tension regardless of direction of the bearing load.



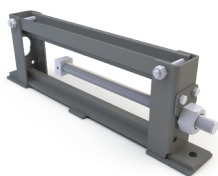
### LIGHT DUTY (PLD) TAKE-UP FRAMES

PPI Light Duty Take-Up Frames give the convenience of use with ball, spherical and sleeve bearings. The adjusting screw is protected from falling material by the steel angle. The adjusting screw is always in tension regardless of direction of bearing load.



### WIDE SLOT (PWS) TAKE-UP FRAMES

The PPI Wide Slot Take-Up Frame provides a compact and economical frame that will accept all manufacturers' ball bearing cartridge. This Take-Up frame is especially useful on packaging and other lightweight special conveyors.



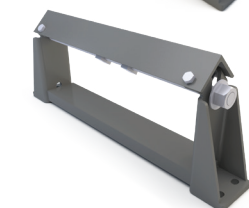
### CENTER PULL (PCP) TAKE-UP FRAMES

Center Pull Take-Up Frames use welded steel construction with reinforced steel end plates. The bolted cap rail allows easy access for quick and easy bearing installation.



### TOP ANGLE (PTA) TAKE-UP FRAMES

PPI Top Angle Take-Up Frames are made of welded steel. The adjusting screw is plated to resist corrosion and is protected by the top angle from falling material. Top Angle Take-Up Frames may be used with sleeve type, ball or tapered roller bearings (where the housing fits a round bottom frame).



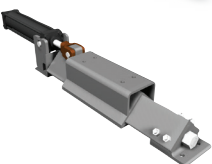
### PROTECTED ANGLE (PPA) TAKE-UP FRAMES

PPI Protected Angle Take-Up Frames are made of welded steel. The adjusting screw is plated to resist corrosion and is protected by the top angle from falling material. Top Angle Take-Up Frames may be used with sleeve type, ball or tapered roller bearings (that fit a channel bottom frame).



### SLIDE TUBE (PST) TAKE-UP FRAMES

The PPI Slide Tube Take-Up Frame provides a compact and economical frame that will accept all manufacturers' pillow blocks. This frame is especially useful on packaging and other lightweight special conveyors.



### HEAVY DUTY HYDRAULIC (PHYD) TAKE-UP FRAMES

Hydraulic Heavy Duty Take-Up Frames are made of welded and bolted steel construction. The adjusting screw, which is fully protected, offers maximum strength and locks the saddle into place. The hydraulic cylinder provides ease of adjustment and accuracy of tightening.

## PHD/PHYD\* - HEAVY DUTY & HYDRAULIC TAKE-UP FRAMES

| TAKE-UP FRAMES |               |       |              |          |               |          | BEARINGS      |               |             |             |                      |               |
|----------------|---------------|-------|--------------|----------|---------------|----------|---------------|---------------|-------------|-------------|----------------------|---------------|
| PPI            | PPI HYDRAULIC | DODGE | SKF          | LINKBELT | BROWNING 2000 | SUPERIOR | PPI           |               | DODGE       |             | LINKBELT             | OTHERS        |
|                |               |       |              |          |               |          | SAF           | TYPE E        | SYE TYPE E  | SYR         | SAF-XT/USAF SAF22500 |               |
| PHD200         | –             | HD200 | TFT 1, 2     | LHD20    | T2000A-C      | 200      | up to 2 3/16  | up to 2 7/16  | up to 2 1/2 | up to 2 1/2 | up to 2 3/16         | up to 2       |
| PHD208         | –             | HD250 | TFT 3, 43    | LHD25    | T2000D-E      | 250      | up to 2 15/16 | up to 2 15/16 | up to 3     | up to 3     | up to 3              | up to 2 1/2   |
| PHD300         | PHYD300       | HD300 | TFT 4, 44    | LHD30    | T2000F-G      | 300      | up to 3 3/16  | up to 3 7/16  | –           | up to 3 1/2 | up to 3 3/16         | up to 3       |
| PHD308         | PHYD308       | HD350 | TFT 5, 6, 46 | LHD35    | T2000H-J      | 350      | up to 3 7/16  | up to 3 15/16 | up to 3 1/2 | up to 4 1/2 | up to 3 1/2          | up to 3 1/2   |
| PHD400         | PHYD400       | HD400 | TFT 7, 37    | LHD40    | T2000K        | 400      | up to 4 7/16  | up to 4 15/16 | up to 5     | up to 5     | up to 4 1/2          | up to 4 3/16  |
| PHD500         | PHYD500       | HD500 | TFT 48       | LHD50    | T2000M-N      | 500      | up to 5 7/16  | –             | up to 6     | –           | up to 5 1/2          | up to 5       |
| PHD600         | PHYD600       | HD600 | –            | –        | –             | 600      | up to 5 15/16 | –             | –           | –           | up to 6              | up to 5 15/16 |
| PHD800         | PHYD800       | HD650 | –            | –        | –             | 800      | up to 8 15/16 | –             | –           | –           | 8 to 9               | 8 to 9        |
| PHD1000        | PHYD1000      | –     | –            | –        | –             | –        | up to 10 7/16 | –             | –           | –           | 10 to 12             | 10 to 12      |

\*For other PHD/PHYD sizes, contact your local PPI Representative.

## PMD - MEDIUM DUTY TAKE-UP FRAMES

| TAKE-UP FRAMES |       |             |             | BEARINGS         |                   |                  |                 |                 |                 |                 |
|----------------|-------|-------------|-------------|------------------|-------------------|------------------|-----------------|-----------------|-----------------|-----------------|
| PPI            | DODGE | LINKBELT LC | BROWNING TF | PPI              |                   | DODGE            |                 |                 | LINKBELT        | 22400           |
|                |       |             |             | TYPE E           | SCM               | SC, SY           | SCM, SYM        | S-2000          |                 |                 |
| PMD100         | LD10  | LC1         | TF16        | –                | –                 | 1/2 - 1          | –               | –               | –               | –               |
| PMD108         | LD20  | –           | –           | –                | 1 3/16            | 1 1/16 - 1 7/16  | 1 - 1 1/4       | 1 1/8 - 1 3/4   | 1 3/16 - 1 1/4  | 1 - 1 1/2       |
| PMD200         | LD30  | LC2         | TF31        | 1 7/16           | 1 7/16            | 1 1/2 - 1 3/4    | 1 7/16 - 1 5/8  | –               | 1 3/8 - 1 11/16 | 1 5/8 - 1 3/4   |
| PMD208         | LD40  | LC3         | TF39        | 1 15/16 - 2 7/16 | 1 11/16 - 1 15/16 | 1 15/16 - 2 7/16 | 1 11/16 - 2 1/4 | 1 7/8 - 2 1/2   | 1 3/4 - 2 3/16  | 1 15/16 - 2 1/2 |
| PMD300         | LD45  | –           | –           | 2 15/16          | 2 3/16 - 2 7/16   | 2 1/2 - 2 11/16  | 2 7/16 - 3      | 2 11/16 - 3 1/2 | 2 11/16 - 3     | 2 11/16 - 3 1/2 |
| PMD308         | LD50  | –           | –           | 3 7/16           | 2 15/16 - 3 7/16  | 2 15/16          | 2 7/16 - 3 1/2  | 3 11/16 - 4     | 3 3/16 - 3 1/2  | 2 11/16 - 3 1/2 |

## PLD - LIGHT DUTY TAKE-UP FRAMES

| TAKE-UP FRAMES |       |             |             | BEARINGS         |                   |                  |                 |                 |                 |                 |
|----------------|-------|-------------|-------------|------------------|-------------------|------------------|-----------------|-----------------|-----------------|-----------------|
| PPI            | DODGE | LINKBELT LC | BROWNING TF | PPI              |                   | DODGE            |                 |                 | LINKBELT        | 22400           |
|                |       |             |             | TYPE E           | SCM               | SC, SY           | SCM, SYM        | S-2000          |                 |                 |
| PLD100         | LD10  | LC1         | TF16        | –                | –                 | 1/2 - 7/8        | –               | –               | 1 3/16 - 1 1/4  | 1 - 1 1/4       |
| PLD108         | LD20  | –           | –           | 1 7/16           | 1 3/16 - 1 7/16   | 1 1/16 - 1 3/4   | 1 - 1 5/8       | 1 1/8 - 1 3/4   | 1 3/8 - 1 11/16 | 1 7/16 - 1 3/4  |
| PLD200         | LD30  | LC2         | TF31        | –                | –                 | 1 15/16          | 1 11/16 - 1 3/4 | –               | –               | –               |
| PLD208         | LD40  | LC3         | TF39        | 1 15/16 - 2 7/16 | 1 11/16 - 1 15/16 | 1 15/16 - 2 7/16 | 1 11/16 - 2 1/4 | 1 7/8 - 2 1/2   | 1 3/4 - 2 1/2   | 1 15/16 - 2 1/2 |
| PLD300         | LD45  | –           | –           | 2 15/16          | 2 3/16 - 2 15/16  | 2 1/2 - 2 15/16  | 2 7/16 - 2 1/2  | 2 11/16 - 3 1/2 | 2 11/16 - 3     | 2 11/16 - 3 1/2 |
| PLD308         | LD50  | –           | –           | 3 7/16           | 2 15/16 - 3 7/16  | 2 15/16          | 2 11/16 - 3 1/2 | 3 3/16 - 4      | 3 3/16 - 3 1/2  | 3 11/16 - 4     |

## PST - SLIDE TUBE TAKE-UP FRAME

| TAKE-UP FRAMES |        |                      | BEARINGS         |                 |                 |                |                 |                |                |                |                 |
|----------------|--------|----------------------|------------------|-----------------|-----------------|----------------|-----------------|----------------|----------------|----------------|-----------------|
| PPI            | BRYANT | PPI TU Frame Numbers | PPI              |                 | DODGE           |                |                 |                | LINKBELT       |                |                 |
|                |        |                      | SCM              | TYPE E          | SC              | SCM            | E/K             | S-2000         | U200           | U300           | 22400           |
| PST250         | 250    | 200                  | 1 3/16           | –               | 1 1/16 - 1 7/16 | 1 - 1 7/16     | 1 3/16 - 1 7/16 | 1 1/8 - 1 1/2  | 1 1/2 - 1 7/16 | 3/4 - 1        | 1 7/16 - 1 1/2  |
| PST300         | 300    | 208                  | 1 7/16 - 2 1/4   | 1 7/16 - 2 3/16 | 1 1/2 - 2 7/16  | 1 7/16 - 2 1/4 | 1 3/8 - 2 3/16  | 1 5/8 - 2 1/4  | 1 1/2 - 2 7/16 | 3/4 - 1 7/16   | 1 7/16 - 2 1/2  |
| PST350         | 350HD  | HD208                | 1 7/16 - 2 1/4   | 1 7/16 - 2 3/16 | 1 1/2 - 2 7/16  | 1 7/16 - 2 1/4 | 1 3/8 - 2 3/16  | 1 5/8 - 3      | 1 1/2 - 2 7/16 | 3/4 - 1 7/16   | 1 7/16 - 2 1/2  |
| PST400         | 400    | 300                  | 2 7/16 - 2 15/16 | 2 7/16 - 3 7/16 | 2 1/2 - 2 15/16 | 2 7/16 - 3 1/2 | 2 1/4 - 3 1/2   | 3 3/16 - 3 1/2 | 2 1/2 - 3 1/2  | 1 1/2 - 2 7/16 | 2 11/16 - 3 1/2 |
| PST500         | 500    | 400                  | up to 3 7/16     | up to 3 15/16   | up to 2 15/16   | up to 3 1/2    | up to 4         | up to 4        | up to 4        | up to 3 15/16  | up to 4         |

**PCP - CENTER PULL TAKE-UP FRAME**

| TAKE-UP FRAMES |        |          |         | BEARINGS       |                   |                |                 |                |                 |
|----------------|--------|----------|---------|----------------|-------------------|----------------|-----------------|----------------|-----------------|
| PPI            | DODGE  | BROWNING | REXNORD | DODGE          |                   | LINKBELT       | BROWNING        |                | REXNORD         |
|                |        |          |         | WSTU<br>TYPE E | WSTU S2<br>S-2000 | T-B22400H      | TUE920          | STU1000        | ZT              |
| PCP108         | CP308  | -        | -       | 1 3/8 - 1 7/16 | 1 1/8 - 1 1/2     | 1 3/16 - 1 1/2 | 1 3/8 - 1 7/16  | -              | -               |
| PCP200         | CP400  | 1000D    | ZHT-6   | 1 1/2 - 2      | 1 11/16 - 2       | 1 5/8 - 2      | 1 1/2 - 2       | 1 15/16 - 2    | 1 1/2 - 1 15/16 |
| PCP203         | CP408  | 1000EH   | ZHT-7   | 2 3/16         | 2 3/16 - 2 1/4    | 2 3/16 - 2 1/4 | 2 3/16          | 2 3/16         | 2 - 2 3/16      |
| PCP208         | CP502  | 1000F    | ZHT-8   | 2 1/4 - 2 1/2  | 2 7/16 - 2 1/2    | 2 7/16 - 2 1/2 | 2 7/16          | 2 7/16 - 2 1/2 | 2 7/16          |
| PCP300         | CP515  | 1000GH   | ZHT-9   | 2 11/16 - 3    | 2 11/16 - 3       | 2 11/16 - 3    | 2 15/16         | 2 11/16 - 3    | 2 1/2 - 2 15/16 |
| PCP308         | CP613  | 1000JH   | ZHT-10  | -              | 3 1/4 - 3 1/2     | 3 7/16 - 3 1/2 | 3 7/16          | 3 3/16 - 3 1/2 | 3 3/16 - 3 7/16 |
| PCP400         | CP810  | 1000K    | ZHT-11  | -              | 3 11/16 - 4       | 4**            | 3 15/16 - 4 1/2 | 3 11/16 - 4    | 3 11/16 - 4     |
| PCP408         | CP908  | -        | ZHT-12  | -              | 4 7/16 - 4 1/2    | -              | -               | -              | 4 3/16 - 4 7/16 |
| PCP500         | CP1004 | -        | ZHT-13  | -              | 4 15/16           | -              | -               | -              | 4 15/16 - 5     |

\*\*The LinkBelt 3-15/16 Wide Slot requires a different frame, i.e. PCP400LB.

NOTE: While both PCP and PWS use the same dimensions for the rails and bearing housing slots, i.e. the rails will fit Wide Slot Take-Up housings, this does not mean that all wide slot bearings will fit into a PWS. A PWS has tighter clearances, designed for the narrow housings of a normal or medium duty ball bearing. As such, they are NOT designed for a roller bearing. (A roller bearing unit MIGHT fit into a PWS, but it will need to be confirmed.) However, the PCP has no such restrictions and can be used with both ball and roller bearing Wide Slot Take-Up Frame housings.

**PWS - WIDE SLOT TAKE-UP FRAME**

| TAKE-UP FRAMES |       |                     | BEARINGS        |                  |                 |                |                |                 |                |                 |
|----------------|-------|---------------------|-----------------|------------------|-----------------|----------------|----------------|-----------------|----------------|-----------------|
| PPI            | DODGE | HUB CITY<br>(WS200) | DODGE           |                  | SKF             |                | LINKBELT       | HUB CITY        |                | BROWNING        |
|                |       |                     | WSTU-SC<br>SC   | WSTU-SCM<br>SCM  | TBY             | TBYM           | T-U300         | WSTU220         | WSTU250        | VTWS/VTWE       |
| PWS100         | WS300 | BC                  | 1/2 - 1         | -                | 3/4 - 1         | -              | 7/8 - 1        | 3/4 - 1         | 3/4 - 1        | 1/2 - 1         |
| PWS108         | WS308 | DE                  | 1 1/16 - 1 7/16 | 1 - 1 1/4        | 1 1/16 - 1 7/16 | -              | 1 1/4 - 1 7/16 | 1 1/8 - 1 7/16  | 1 1/8 - 1 7/16 | 1 1/8 - 1 7/16  |
| PWS200         | WS400 | FH                  | 1 1/2 - 2       | 1 7/16 - 1 3/4   | 1 1/2 - 1 15/16 | 1 7/16 - 1 3/4 | 1 1/2          | 1 1/2 - 2       | 1 1/2          | 1 1/2 - 1 15/16 |
| PWS208         | WS502 | JK                  | 2 - 2 7/16      | 1 15/16 - 2 1/4  | 2 - 2 3/16      | 1 15/16        | 1 15/16        | 2 3/16 - 2 7/16 | 2 3/16         | 2 - 2 7/16      |
| PWS300         | WS515 | -                   | 2 1/2 - 2 15/16 | 2 7/16 - 2 11/16 | -               | -              | 2 1/4 - 2 7/16 | -               | -              | -               |
| PWS308         | WS608 | -                   | -               | 2 15/16 - 3      | -               | -              | -              | -               | -              | -               |

**PPA - PROTECTED ANGLE TAKE-UP FRAME** (Fits Channel Bottom Housing)

| TAKE-UP FRAMES |         |       | BEARINGS     |            |           |                  |         |                |
|----------------|---------|-------|--------------|------------|-----------|------------------|---------|----------------|
| PPI            | REXNORD | SKF   | LINKBELT     |            |           | SKF              |         | REXNORD        |
|                |         |       | TDS(3)-U200N | DS-B22400H | DS-LB6800 | TY               | TRH     | ZNT            |
| PPA200         | ZNT 6   | PA-1  | 1 15/16      | 1 15/16    | -         | 1 7/16           | 1 15/16 | 1 15/16 - 2    |
| PPA203         | ZNT 7   | PA-2  | 2 3/16       | 2 3/16     | -         | 1 15/16          | 2 3/16  | 2 3/16 - 2 1/4 |
| PPA208         | ZNT 8   | PA-11 | 2 7/16       | 2 7/16     | -         | -                | 2 7/16  | 2 3/8 - 2 1/2  |
| PPA300         | ZNT 9   | PA-4  | 2 15/16      | 2 15/16    | 2 7/16    | 2 3/16 - 2 7/16  | 2 15/16 | 2 11/16 - 3    |
| PPA308         | ZNT 10  | PA-5  | 3 7/16       | 3 7/16     | 2 15/16   | 2 15/16          | -       | 3 3/16 - 3 1/2 |
| PPA400         | ZNT 11  | PA-6  | 3 15/16      | 3 15/16    | 3 7/16    | 3 7/16 - 3 15/16 | 3 15/16 | 3 11/16 - 4    |
| PPA408         | -       | -     | -            | 4 7/16     | 3 15/16   | -                | -       | -              |

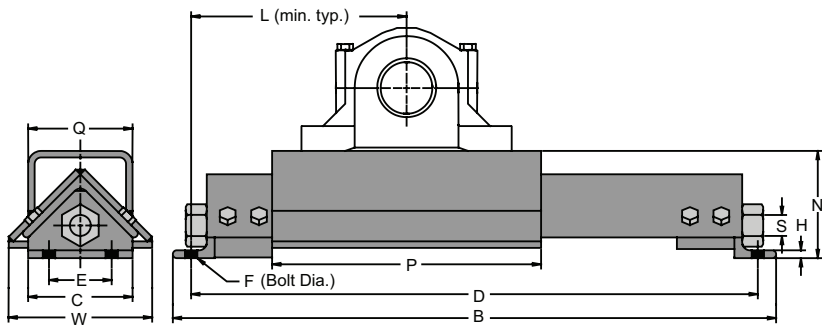
While the PTA & PPA have the same mounting dimensions, they fit two different styles of Take-Up Frame housings.

**PTA - TOP ANGLE TAKE-UP FRAME** (Fits Round Bottom Housing)

| TAKE-UP FRAMES |       | BEARINGS       |                 |                  |                |                |
|----------------|-------|----------------|-----------------|------------------|----------------|----------------|
| PPI            | DODGE | DODGE          |                 |                  | LINKBELT       |                |
|                |       | TPE/TPK<br>E/K | G<br>SC         | GM<br>SCM        | TPHU<br>S-2000 | ETP<br>TYPE E  |
| PTA200         | TP10  | 1 3/4 - 2      | 1 15/16 - 2     | 1 11/16 - 1 3/4  | 1 15/16        | 1 3/4 - 2      |
| PTA203         | TP20  | 2 3/16         | 2 - 2 1/4       | 1 15/16 - 2      | -              | 2 3/16         |
| PTA208         | TP30  | 2 1/4 - 2 1/2  | 2 1/4 - 2 7/16  | 2 3/16 - 2 1/4   | 2 3/16         | 2 1/4 - 2 1/2  |
| PTA300         | TP40  | 2 11/16 - 3    | 2 1/2 - 2 15/16 | 2 7/16 - 2 11/16 | 2 7/16         | 2 11/16 - 3    |
| PTA308         | TP50  | 3 3/16 - 3 1/2 | -               | 2 15/16 - 3      | 3 7/16         | 3 3/16 - 3 1/2 |
| PTA400         | TP60  | 3 15/16 - 4    | -               | 3 7/16 - 3 1/2   | 3 15/16        | 3 15/16 - 4    |

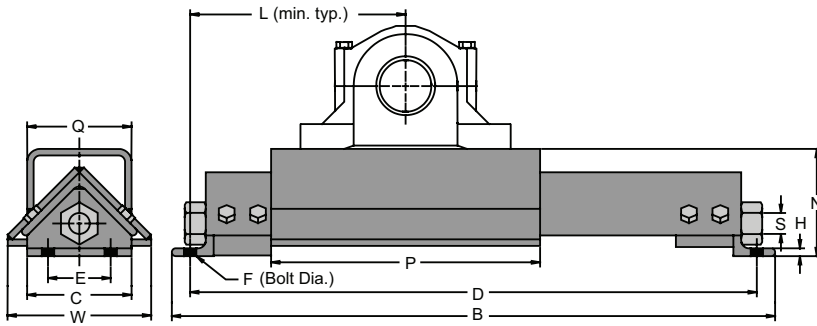
While the PTA & PPA have the same mounting dimensions, they fit two different styles of Take-Up Frame housings.

# PRECISION HEAVY DUTY (PHD)



- Pillow block mounting holes drilled to order
- Pillow block mounting bolts included
- Uses standard pillow blocks
- PHD 200-600 use angle iron
- PHD 800 -1000 use heavy wall square tubing
- Stainless steel threaded rods are available

| Size   | Travel | Wt. | B       | C     | D      | E     | F Bolt Dia | H   | L      | N     | P      | Q | S Rod Dia | W     |
|--------|--------|-----|---------|-------|--------|-------|------------|-----|--------|-------|--------|---|-----------|-------|
| PHD200 | 12     | 48  | 30 5/16 | 5     | 29     | 2 1/2 | 5/8        | 1/4 | 9 3/4  | 5 1/4 | 11     | 4 | 1         | 6 1/8 |
|        | 18     | 52  | 36 5/16 |       | 35     |       |            |     |        |       |        |   |           |       |
|        | 24     | 56  | 42 5/16 |       | 41     |       |            |     |        |       |        |   |           |       |
|        | 30     | 60  | 48 5/16 |       | 47     |       |            |     |        |       |        |   |           |       |
|        | 36     | 64  | 54 5/16 |       | 53     |       |            |     |        |       |        |   |           |       |
|        | 48     | 72  | 66 5/16 |       | 65     |       |            |     |        |       |        |   |           |       |
|        | 60     | 80  | 78 5/16 |       | 77     |       |            |     |        |       |        |   |           |       |
| PHD208 | 12     | 83  | 35 1/4  | 5 1/2 | 32 3/4 | 3     | 5/8        | 3/8 | 10 7/8 | 6 1/4 | 13 1/4 | 5 | 1         | 7 1/8 |
|        | 18     | 89  | 41 1/4  |       | 38 3/4 |       |            |     |        |       |        |   |           |       |
|        | 24     | 95  | 47 1/4  |       | 44 3/4 |       |            |     |        |       |        |   |           |       |
|        | 30     | 101 | 53 1/4  |       | 50 3/4 |       |            |     |        |       |        |   |           |       |
|        | 36     | 107 | 59 1/4  |       | 56 3/4 |       |            |     |        |       |        |   |           |       |
|        | 48     | 119 | 71 1/4  |       | 68 3/4 |       |            |     |        |       |        |   |           |       |
|        | 60     | 131 | 83 1/4  |       | 80 3/4 |       |            |     |        |       |        |   |           |       |
| PHD300 | 12     | 137 | 38 1/4  | 6 1/2 | 35 1/2 | 3     | 3/4        | 1/2 | 11 3/4 | 7     | 14 1/4 | 6 | 1 1/4     | 8 3/4 |
|        | 18     | 147 | 44 1/4  |       | 41 1/2 |       |            |     |        |       |        |   |           |       |
|        | 24     | 157 | 50 1/4  |       | 47 1/2 |       |            |     |        |       |        |   |           |       |
|        | 30     | 166 | 56 1/4  |       | 53 1/2 |       |            |     |        |       |        |   |           |       |
|        | 36     | 176 | 62 1/4  |       | 59 1/2 |       |            |     |        |       |        |   |           |       |
|        | 48     | 196 | 74 1/4  |       | 71 1/2 |       |            |     |        |       |        |   |           |       |
|        | 60     | 216 | 86 1/4  |       | 83 1/2 |       |            |     |        |       |        |   |           |       |
| PHD308 | 12     | 147 | 40      | 6 1/2 | 37 1/4 | 3     | 3/4        | 1/2 | 12 5/8 | 7     | 16     | 6 | 1 1/4     | 8 3/4 |
|        | 18     | 157 | 46      |       | 43 1/4 |       |            |     |        |       |        |   |           |       |
|        | 24     | 167 | 52      |       | 49 1/4 |       |            |     |        |       |        |   |           |       |
|        | 30     | 177 | 58      |       | 55 1/4 |       |            |     |        |       |        |   |           |       |
|        | 36     | 187 | 64      |       | 61 1/4 |       |            |     |        |       |        |   |           |       |
|        | 48     | 206 | 76      |       | 73 1/4 |       |            |     |        |       |        |   |           |       |
|        | 60     | 225 | 88      |       | 85 1/4 |       |            |     |        |       |        |   |           |       |
| PHD400 | 12     | 176 | 44      | 6 1/2 | 41 1/4 | 3     | 3/4        | 1/2 | 14 5/8 | 7     | 20     | 7 | 1 1/4     | 8 3/4 |
|        | 18     | 186 | 50      |       | 47 1/4 |       |            |     |        |       |        |   |           |       |
|        | 24     | 196 | 56      |       | 53 1/4 |       |            |     |        |       |        |   |           |       |
|        | 30     | 206 | 62      |       | 59 1/4 |       |            |     |        |       |        |   |           |       |
|        | 36     | 216 | 68      |       | 65 1/4 |       |            |     |        |       |        |   |           |       |
|        | 48     | 235 | 80      |       | 77 1/4 |       |            |     |        |       |        |   |           |       |
|        | 60     | 254 | 92      |       | 89 1/4 |       |            |     |        |       |        |   |           |       |

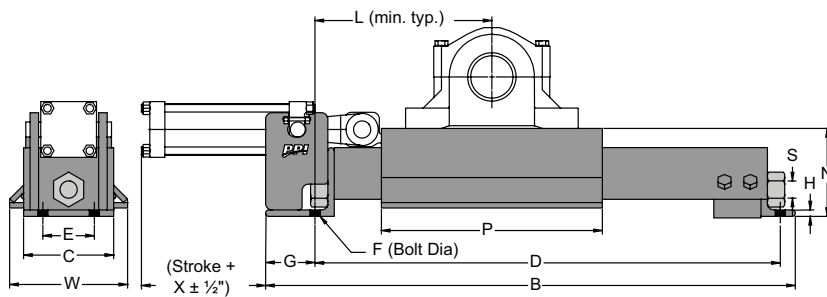


- Pillow block mounting holes drilled to order
- Pillow block mounting bolts included
- Uses standard pillow blocks
- PHD 200-600 use angle iron
- PHD 800 -1000 use heavy wall square tubing
- Stainless steel threaded rods are available

| Size    | Travel | Wt.  | B       | C  | D       | E | F Bolt Dia | H   | L      | N      | P      | Q     | S Rod Dia | W      |
|---------|--------|------|---------|----|---------|---|------------|-----|--------|--------|--------|-------|-----------|--------|
| PHD500  | 12     | 304  | 49 1/2  | 7  | 47      | 4 | 7/8        | 1/2 | 16 1/2 | 7 3/4  | 23 1/2 | 8 1/2 | 1 1/2     | 10 3/4 |
|         | 18     | 321  | 55 1/2  |    | 53      |   |            |     |        |        |        |       |           |        |
|         | 24     | 337  | 61 1/2  |    | 59      |   |            |     |        |        |        |       |           |        |
|         | 30     | 354  | 67 1/2  |    | 65      |   |            |     |        |        |        |       |           |        |
|         | 36     | 371  | 73 1/2  |    | 71      |   |            |     |        |        |        |       |           |        |
|         | 48     | 405  | 85 1/2  |    | 83      |   |            |     |        |        |        |       |           |        |
|         | 60     | 439  | 97 1/2  |    | 95      |   |            |     |        |        |        |       |           |        |
| PHD600  | 12     | 502  | 57 3/4  | 10 | 54 1/4  | 6 | 1          | 3/4 | 20 5/8 | 10 1/4 | 25 3/4 | 10    | 2         | 13 3/4 |
|         | 18     | 524  | 63 3/4  |    | 60 1/4  |   |            |     |        |        |        |       |           |        |
|         | 24     | 546  | 69 3/4  |    | 66 1/4  |   |            |     |        |        |        |       |           |        |
|         | 30     | 568  | 75 3/4  |    | 72 1/4  |   |            |     |        |        |        |       |           |        |
|         | 36     | 590  | 81 3/4  |    | 78 1/4  |   |            |     |        |        |        |       |           |        |
|         | 48     | 635  | 93 3/4  |    | 90 1/4  |   |            |     |        |        |        |       |           |        |
|         | 60     | 680  | 105 3/4 |    | 102 1/4 |   |            |     |        |        |        |       |           |        |
| PHD800  | 12     | 799  | 70 7/8  | 12 | 60 7/8  | 6 | 1 1/4      | 3/4 | 21 1/4 | 12 3/4 | 36     | 12    | 2 1/2     | 12     |
|         | 18     | 822  | 76 7/8  |    | 66 7/8  |   |            |     |        |        |        |       |           |        |
|         | 24     | 844  | 82 7/8  |    | 72 7/8  |   |            |     |        |        |        |       |           |        |
|         | 30     | 867  | 88 7/8  |    | 78 7/8  |   |            |     |        |        |        |       |           |        |
|         | 36     | 889  | 94 7/8  |    | 84 7/8  |   |            |     |        |        |        |       |           |        |
|         | 48     | 929  | 106 7/8 |    | 96 7/8  |   |            |     |        |        |        |       |           |        |
|         | 60     | 969  | 118 7/8 |    | 108 7/8 |   |            |     |        |        |        |       |           |        |
| PHD1000 | 12     | 1192 | 76 1/2  | 14 | 66 1/2  | 6 | 1 1/2      | 3/4 | 23 1/4 | 15 1/2 | 40     | 14    | 3         | 14     |
|         | 18     | 1233 | 82 1/2  |    | 72 1/2  |   |            |     |        |        |        |       |           |        |
|         | 24     | 1274 | 88 1/2  |    | 78 1/2  |   |            |     |        |        |        |       |           |        |
|         | 30     | 1315 | 94 1/2  |    | 84 1/2  |   |            |     |        |        |        |       |           |        |
|         | 36     | 1357 | 100 1/2 |    | 90 1/2  |   |            |     |        |        |        |       |           |        |
|         | 48     | 1440 | 112 1/2 |    | 102 1/2 |   |            |     |        |        |        |       |           |        |
|         | 60     | 1523 | 124 1/2 |    | 114 1/2 |   |            |     |        |        |        |       |           |        |

Mounting holes (D&T) for pillow blocks are done per order. For other sizes, contact your local PPI Representative.

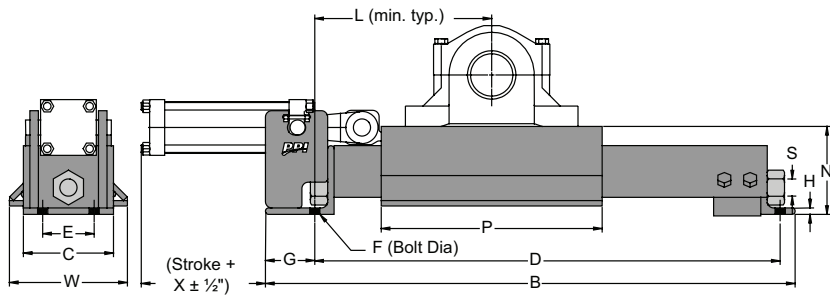
# PRECISION HEAVY DUTY (PHYD)



- Saddle movement assisted with hydraulic cylinder
- Uses standard rod end trunion mount cylinders
- Standard set up is pull
- PHYD 200-600 use angle iron
- PHYD 800 -1000 use heavy wall square tubing
- Stainless steel threaded rods are available

| Size    | Travel | Wt. | B       | C      | D       | E | F Bolt Dia | H   | L       | N      | P      | Q     | S Rod Dia | W      | G      | X ± 1/2" | Available Cylinders |
|---------|--------|-----|---------|--------|---------|---|------------|-----|---------|--------|--------|-------|-----------|--------|--------|----------|---------------------|
| PHYD300 | 12     | 137 | 40 1/4  | 7 1/2  | 35 1/2  | 3 | 3/4        | 1/2 | 11 3/4  | 7      | 14 1/4 | 6     | 11/4      | 8 3/4  | 3 3/8  | 2 3/8    | 2010                |
|         | 18     | 147 | 46 1/4  |        | 41 1/2  |   |            |     |         |        |        |       |           |        |        |          |                     |
|         | 24     | 157 | 52 1/4  |        | 47 1/2  |   |            |     |         |        |        |       |           |        |        |          |                     |
|         | 30     | 166 | 58 1/4  |        | 53 1/2  |   |            |     |         |        |        |       |           |        |        |          |                     |
|         | 36     | 176 | 64 1/4  |        | 59 1/2  |   |            |     |         |        |        |       |           |        |        |          |                     |
|         | 48     | 196 | 76 1/4  |        | 71 1/2  |   |            |     |         |        |        |       |           |        |        |          |                     |
|         | 60     | 216 | 88 1/4  |        | 83 1/2  |   |            |     |         |        |        |       |           |        |        |          |                     |
| PHYD308 | 12     | 147 | 43 1/4  | 7 1/2  | 37 1/4  | 3 | 3/4        | 1/2 | 12 5/8  | 7      | 16     | 6     | 11/4      | 8 3/4  | 3 3/8  | 2 3/8    | 2010                |
|         | 18     | 157 | 49 1/4  |        | 43 1/4  |   |            |     |         |        |        |       |           |        |        |          |                     |
|         | 24     | 167 | 55 1/4  |        | 49 1/4  |   |            |     |         |        |        |       |           |        |        |          |                     |
|         | 30     | 177 | 61 1/4  |        | 55 1/4  |   |            |     |         |        |        |       |           |        | 4 5/16 | 2 9/16   | 2513                |
|         | 36     | 187 | 67 1/4  |        | 61 1/4  |   |            |     |         |        |        |       |           |        |        |          |                     |
|         | 48     | 206 | 79 1/4  |        | 73 1/4  |   |            |     |         |        |        |       |           |        |        |          |                     |
|         | 60     | 225 | 91 1/4  |        | 85 1/4  |   |            |     |         |        |        |       |           |        |        |          |                     |
| PHYD400 | 12     | 176 | 47 1/4  | 7 1/2  | 41 1/4  | 3 | 3/4        | 1/2 | 14 5/8  | 7      | 20     | 7     | 11/4      | 8 3/4  | 4 5/16 | 2 9/16   | 2513                |
|         | 18     | 186 | 53 1/4  |        | 47 1/4  |   |            |     |         |        |        |       |           |        |        |          |                     |
|         | 24     | 196 | 59 1/4  |        | 53 1/4  |   |            |     |         |        |        |       |           |        |        |          |                     |
|         | 30     | 206 | 65 1/4  |        | 59 1/4  |   |            |     |         |        |        |       |           |        | 4 5/8  | 3 1/4    | 3213                |
|         | 36     | 216 | 71 1/4  |        | 65 1/4  |   |            |     |         |        |        |       |           |        |        |          |                     |
|         | 48     | 235 | 83 1/4  |        | 77 1/4  |   |            |     |         |        |        |       |           |        |        |          |                     |
|         | 60     | 254 | 95 1/4  |        | 89 1/4  |   |            |     |         |        |        |       |           |        |        |          |                     |
| PHYD500 | 12     | 304 | 54 1/8  | 8 1/2  | 47      | 4 | 7/8        | 3/4 | 18 5/8  | 7 3/4  | 23 1/2 | 8 1/2 | 11/2      | 10 3/4 | 5 7/8  | 3 1/4    | 3217                |
|         | 18     | 321 | 60 1/8  |        | 53      |   |            |     |         |        |        |       |           |        |        |          |                     |
|         | 24     | 337 | 66 1/8  |        | 59      |   |            |     |         |        |        |       |           |        |        |          |                     |
|         | 30     | 354 | 72 1/8  |        | 65      |   |            |     |         |        |        |       |           |        |        | 3 1/2    | 4017                |
|         | 36     | 371 | 78 1/8  |        | 71      |   |            |     |         |        |        |       |           |        |        |          |                     |
|         | 48     | 405 | 90 1/8  |        | 83      |   |            |     |         |        |        |       |           |        |        |          |                     |
|         | 60     | 439 | 102 1/8 |        | 95      |   |            |     |         |        |        |       |           |        |        |          |                     |
| PHYD600 | 12     | 502 | 61 3/4  | 10 1/2 | 54 1/4  | 6 | 1          | 3/4 | 22 3/16 | 10 1/4 | 25 3/4 | 10    | 2         | 13 3/4 | 5 3/4  | 2 1/16   | 4020                |
|         | 18     | 524 | 67 3/4  |        | 60 1/4  |   |            |     |         |        |        |       |           |        |        |          |                     |
|         | 24     | 546 | 73 3/4  |        | 66 1/4  |   |            |     |         |        |        |       |           |        |        |          |                     |
|         | 30     | 568 | 79 3/4  |        | 72 1/4  |   |            |     |         |        |        |       |           |        |        | 2 3/4    | 5020                |
|         | 36     | 590 | 85 3/4  |        | 78 1/4  |   |            |     |         |        |        |       |           |        |        |          |                     |
|         | 48     | 635 | 97 3/4  |        | 90 1/4  |   |            |     |         |        |        |       |           |        |        |          |                     |
|         | 60     | 680 | 109 3/4 |        | 102 1/4 |   |            |     |         |        |        |       |           |        |        |          |                     |





- Saddle movement assisted with hydraulic cylinder
- Uses standard rod end trunion mount cylinders
- Standard set up is pull
- PHYD 200-600 use angle iron
- PHYD 800 -1000 use heavy wall square tubing
- Stainless steel threaded rods are available

| Size     | Travel | Wt.  | B       | C  | D       | E | F Bolt Dia | H   | L      | N      | P  | Q  | S Rod Dia | W  | G     | X ± 1/2" | Available Cylinders |
|----------|--------|------|---------|----|---------|---|------------|-----|--------|--------|----|----|-----------|----|-------|----------|---------------------|
| PHYD800  | 12     | 799  | 71 5/8  | 12 | 60 7/8  | 6 | 1 1/4      | 3/4 | 29 1/8 | 12 3/4 | 33 | 12 | 25        | 12 | 5 3/4 | 27/16    | 5020                |
|          | 18     | 822  | 77 5/8  |    | 66 7/8  |   |            |     |        |        |    |    |           |    |       |          |                     |
|          | 24     | 844  | 83 5/8  |    | 72 7/8  |   |            |     |        |        |    |    |           |    |       |          |                     |
|          | 30     | 867  | 89 5/8  |    | 78 7/8  |   |            |     |        |        |    |    |           |    |       | 3 9/16   | 6025                |
|          | 36     | 889  | 95 5/8  |    | 84 7/8  |   |            |     |        |        |    |    |           |    |       |          |                     |
|          | 48     | 929  | 107 5/8 |    | 96 7/8  |   |            |     |        |        |    |    |           |    |       |          |                     |
|          | 60     | 969  | 119 5/8 |    | 108 7/8 |   |            |     |        |        |    |    |           |    |       |          |                     |
| PHYD1000 | 12     | 1192 | 78 1/4  | 14 | 66 1/2  | 6 | 1 1/2      | 3/4 | 33 1/4 | 15 1/2 | 36 | 14 | 3         | 14 | 6 3/4 | 31/16    | 6025                |
|          | 18     | 1233 | 84 1/4  |    | 72 1/2  |   |            |     |        |        |    |    |           |    |       |          |                     |
|          | 24     | 1274 | 90 1/4  |    | 78 1/2  |   |            |     |        |        |    |    |           |    |       |          |                     |
|          | 30     | 1315 | 96 1/4  |    | 84 1/2  |   |            |     |        |        |    |    |           |    |       | 4        | 7030                |
|          | 36     | 1357 | 102 1/4 |    | 90 1/2  |   |            |     |        |        |    |    |           |    |       |          |                     |
|          | 48     | 1440 | 114 1/4 |    | 102 1/2 |   |            |     |        |        |    |    |           |    |       | 5 1/8    | 8035                |
|          | 60     | 1523 | 126 1/4 |    | 114 1/2 |   |            |     |        |        |    |    |           |    |       |          |                     |

Mounting holes (D&T) for pillow blocks are done per order. For other sizes, contact your local PPI Representative.

See page 10 for PHYD hydraulic cylinders. To specify a PPI PHYD frame, select a cylinder from page 10, then add an "x" and the travel length.

For example: **PHYD400-2513x24** for a 400 frame, suitable for a 2513 cylinder and 24" of travel.

**HYD 2513x24** for a cylinder with 2.5" bore, 1.375" rod with 24" stroke with clevis and pin.

Hydraulic cylinders are shipped separate from the Take-Up Frame to minimize damage.

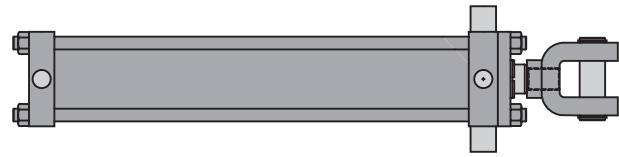
# PHYD HYDRAULIC CYLINDERS

All PHYD frames are set up for pull applications, unless specified on the order

All PHYD frames are designed for series 2HD head trunion mount cylinders (NFPA #MT1)

All PHYD frames are to be used with pillow block bearings

Hydraulic cylinders have lip seals and SAE ports, they extend past the frame approximately equal to the stroke plus X inches (refer to drawing on page 8)



| Part Number   | Cylinder  |          | Area         |              | Max Force |           | Max Pressure |            | Max Push Stroke* (in) | SAE Port Size |
|---------------|-----------|----------|--------------|--------------|-----------|-----------|--------------|------------|-----------------------|---------------|
|               | Bore (in) | Rod (in) | Pull (sq in) | Push (sq in) | Pull (lb) | Push (lb) | Pull (psi)   | Push (psi) |                       |               |
| PHYD300-2010  | 2         | 1        | 2357         | 3142         | 5,800     | 6,000     | 2,461        | 1,910      | 24                    | 8 or 10       |
| PHYD308-2010  | 2         | 1        | 2357         | 3142         | 5,800     | 8,000     | 2,461        | 2,546      | 18                    | 8 or 10       |
| PHYD308-2513  | 2 1/2     | 1 3/8    | 3,424        | 4,909        | 8,500     | 9,000     | 2,482        | 1,833      | 30                    |               |
| PHYD400-2513  | 2 1/2     | 1 3/8    | 3,424        | 4,909        | 8,500     | 12,000    | 2,482        | 2,444      | 30                    | 8 or 10       |
| PHYD400-3213  | 3 1/4     | 1 3/8    | 6,811        | 8,296        | 12,000    | 12,000    | 1,762        | 1,446      |                       | 12            |
| PHYD500-3217  | 3 1/4     | 1 3/4    | 5,891        | 8,296        | 14,500    | 18,000    | 2,461        | 2,170      | 30                    | 12            |
| PHYD500-4017  | 4         | 1 3/4    | 10,161       | 12,566       | 18,000    | 18,000    | 1,771        | 1,432      |                       |               |
| PHYD600-4020  | 4         | 2        | 9,424        | 12,566       | 23,000    | 30,000    | 2,441        | 2,387      | 30                    | 12            |
| PHYD600-5020  | 5         | 2        | 16,493       | 19,635       | 30,000    | 30,000    | 1,819        | 1,528      |                       |               |
| PHYD800-5020  | 5         | 2        | 16,493       | 19,635       | 36,000    | 43,000    | 2,183        | 2,190      | 30                    | 12            |
| PHYD800-6025  | 6         | 2 1/2    | 23,365       | 28,274       | 50,000    | 50,000    | 2,140        | 1,768      |                       | 16            |
| PHYD1000-6025 | 6         | 2 1/2    | 23,365       | 28,274       | 50,000    | 62,000    | 2,140        | 2,193      | 30                    | 16            |
| PHYD1000-7030 | 7         | 3        | 31,416       | 38,485       | 70,000    | 85,000    | 2,228        | 2,209      |                       | 20            |
| PHYD1000-8035 | 8         | 3 1/2    | 40,644       | 50,265       | 90,000    | 90,000    | 2,214        | 1,791      |                       | 24            |

\*Cylinders beyond max push stroke may have to be adjusted for the application, which will increase the X dimension. Consult PPI engineers for push applications beyond the max push stroke.

- To specify a PPI PHYD frame, add a "x" and the travel length to the part numbers above. For example:  
**PHYD400-2513x24** for a 400 frame, suitable for a 2513 cylinder and 24" of travel  
**PHYD2513x24**, for a cylinder with 2.5 bore, 1.375 rod with 24" stroke with clevis and pin
- Cylinders are available with an optional boot to protect the rod, add a B to the end of the cylinder part number
- For frame dimensions, see pages 8 & 9
- For other sizes & capacities, contact your local PPI Representative
- Hydraulic cylinders are shipped separate from the Take-Up Frame to minimize damage

## WHICH HOSE KIT TO ORDER

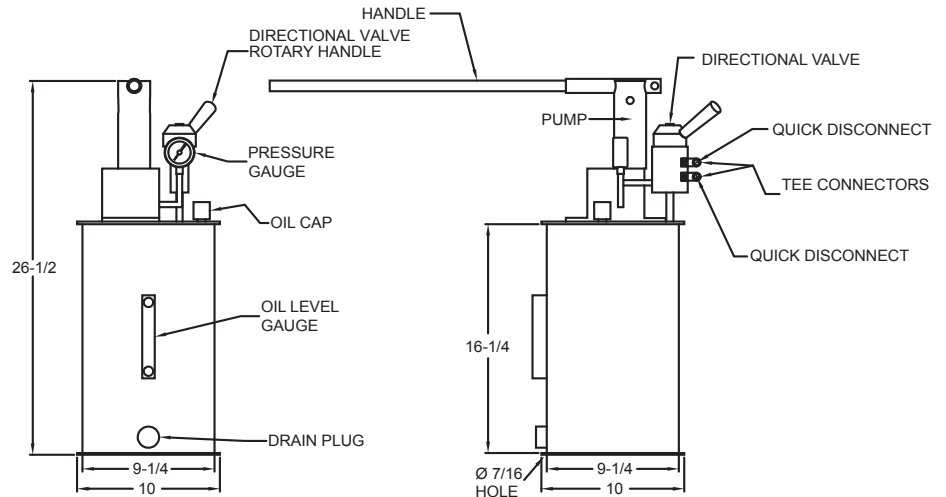
| CYLINDER SIZE | HOSE KIT           |
|---------------|--------------------|
| 2010          | M HOSE or M HOSE L |
| 2513          | M HOSE or M HOSE L |
| 3217          | M HOSE or M HOSE L |
| 4017          | M HOSE or M HOSE L |
| 4020          | M HOSE or M HOSE L |
| 5020          | M HOSE or M HOSE L |
| 6025          | L HOSE or L HOSE L |
| 7030          | L HOSE or L HOSE L |
| 8035          | X HOSE or X HOSE L |

See page 11 for hose detail.

## HYDH PUMP (75 lb)

| QTY | DESCRIPTION                                         |
|-----|-----------------------------------------------------|
| 1   | Hand Pump                                           |
| 1   | Reservoir (5 GAL) with Oil Level Gauge, Drain & Cap |
| 1   | Directional Valve                                   |
| 2   | Tee Connector                                       |
| 2   | Quick Disconnect Socket                             |
| 2   | Quick Disconnect Plug                               |

Note: Oil is not included



## M HOSE - 15.8 lb

| QTY | DESCRIPTION                    |
|-----|--------------------------------|
| 1   | Diameter: 3/8" • Length: 3'    |
| 1   | Diameter: 3/8" • Length: 6'    |
| 1   | Diameter: 3/8" • Length: 12'   |
| 1   | Diameter: 3/8" • Length: 15'   |
| 4   | #10 to #8 SAE Port Adapters    |
| 4   | #12 to #8 SAE Port Adapters    |
| 2   | Quick Connect Socket (coupler) |
| 2   | Quick Connect Plug             |

## M HOSE L - 29.8 lb

| QTY | DESCRIPTION                    |
|-----|--------------------------------|
| 1   | Diameter: 3/8" • Length: 20'   |
| 1   | Diameter: 3/8" • Length: 23'   |
| 1   | Diameter: 3/8" • Length: 30'   |
| 1   | Diameter: 3/8" • Length: 33'   |
| 4   | #10 to #8 SAE Port Adapters    |
| 4   | #12 to #8 SAE Port Adapters    |
| 2   | Quick Connect Socket (coupler) |
| 2   | Quick Connect Plug             |

## L HOSE - 18.2 lb

| QTY | DESCRIPTION                    |
|-----|--------------------------------|
| 1   | Diameter: 3/8" • Length: 3'    |
| 1   | Diameter: 3/8" • Length: 6'    |
| 1   | Diameter: 3/8" • Length: 12'   |
| 1   | Diameter: 3/8" • Length: 15'   |
| 4   | #16 to #8 SAE Port Adapters    |
| 4   | #20 to #8 SAE Port Adapters    |
| 2   | Quick Connect Socket (coupler) |
| 2   | Quick Connect Plug             |

## L HOSE L - 32.2 lb

| QTY | DESCRIPTION                    |
|-----|--------------------------------|
| 1   | Diameter: 3/8" • Length: 20'   |
| 1   | Diameter: 3/8" • Length: 23'   |
| 1   | Diameter: 3/8" • Length: 30'   |
| 1   | Diameter: 3/8" • Length: 33'   |
| 4   | #16 to #8 SAE Port Adapters    |
| 4   | #20 to #8 SAE Port Adapters    |
| 2   | Quick Connect Socket (coupler) |
| 2   | Quick Connect Plug             |

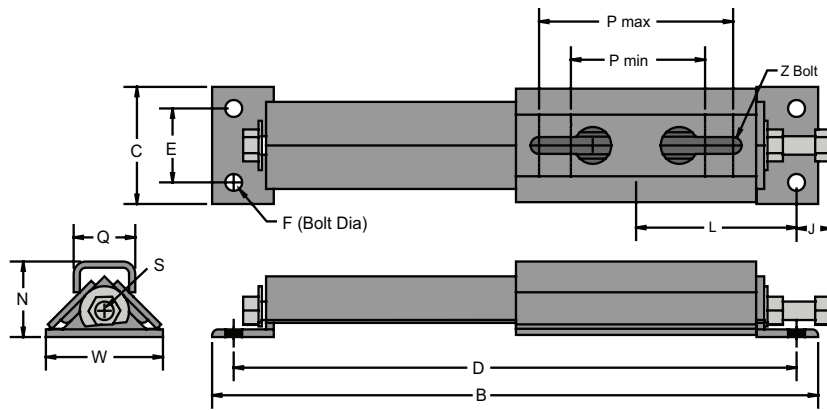
## X HOSE - 19.8 lb

| QTY | DESCRIPTION                    |
|-----|--------------------------------|
| 1   | Diameter: 3/8" • Length: 3'    |
| 1   | Diameter: 3/8" • Length: 6'    |
| 1   | Diameter: 3/8" • Length: 12'   |
| 1   | Diameter: 3/8" • Length: 15'   |
| 4   | #16 to #8 SAE Port Adapters    |
| 4   | #24 to #16 SAE Port Adapters   |
| 2   | Quick Connect Socket (coupler) |
| 2   | Quick Connect Plug             |

## X HOSE L - 33.8 lb

| QTY | DESCRIPTION                    |
|-----|--------------------------------|
| 1   | Diameter: 3/8" • Length: 20'   |
| 1   | Diameter: 3/8" • Length: 23'   |
| 1   | Diameter: 3/8" • Length: 30'   |
| 1   | Diameter: 3/8" • Length: 33'   |
| 4   | #16 to #8 SAE Port Adapters    |
| 4   | #24 to #16 SAE Port Adapters   |
| 2   | Quick Connect Socket (coupler) |
| 2   | Quick Connect Plug             |

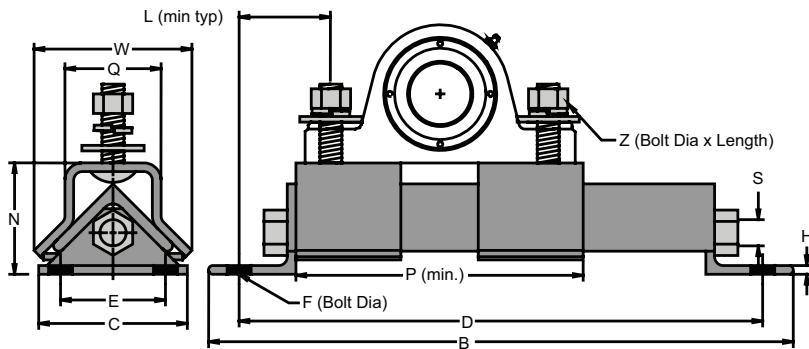
# PRECISION MEDIUM DUTY (PMD)



- Heavy duty 1-piece saddle design for 2-bolt pillow block bearings
- Low profile design for tight applications
- Uses standard 2-bolt pillow block bearings
- Uses "carriage bolts" (Round head square neck bolts)(not included)
- Stainless steel threaded rods are available

\*Mounting bolts are NOT included

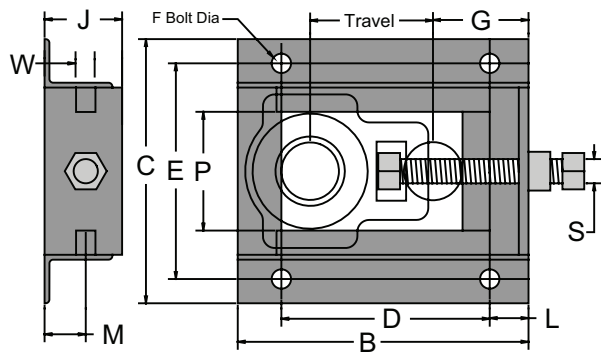
| Size   | Travel | Weight | B      | C     | D      | E     | F Bolt Dia | J      | L     | N      | P      |         | Q     | S Rod Dia | W     | Z Bolt Dia x Length |
|--------|--------|--------|--------|-------|--------|-------|------------|--------|-------|--------|--------|---------|-------|-----------|-------|---------------------|
|        |        |        |        |       |        |       |            |        |       |        | min    | max     |       |           |       |                     |
| PMD100 | 6      | 13     | 19 1/2 | 3 3/4 | 18     | 2 1/2 | 3/8        | 13/4   | 4 1/4 | 2 9/16 | 2 7/8  | 4 1/4   | 1 1/2 | 3/4       | 3 3/4 | 3/8 x 1-1/2         |
|        | 9      | 15     | 22     |       | 20 1/2 |       |            |        |       |        |        |         |       |           |       |                     |
|        | 12     | 16     | 25     |       | 23 1/2 |       |            |        |       |        |        |         |       |           |       |                     |
|        | 18     | 18     | 33 1/2 |       | 32     |       |            |        |       |        |        |         |       |           |       |                     |
| PMD108 | 6      | 15     | 19 1/2 | 3 3/4 | 18     | 2 1/2 | 3/8        | 13/4   | 5 1/4 | 2 9/16 | 4 7/16 | 6       | 2     | 3/4       | 3 3/4 | 1/2 x 2-1/2         |
|        | 9      | 61     | 22     |       | 20 1/2 |       |            |        |       |        |        |         |       |           |       |                     |
|        | 12     | 18     | 25     |       | 23 1/2 |       |            |        |       |        |        |         |       |           |       |                     |
|        | 18     | 21     | 33 1/2 |       | 32     |       |            |        |       |        |        |         |       |           |       |                     |
|        | 24     | 23     | 39 1/2 |       | 38     |       |            |        |       |        |        |         |       |           |       |                     |
| PMD200 | 6      | 19     | 22 1/4 | 3 3/4 | 20 3/4 | 2 1/2 | 1/2        | 13/4   | 5 5/8 | 2 5/8  | 5 3/4  | 7       | 2 1/2 | 3/4       | 4     | 5/8 x 3             |
|        | 12     | 22     | 28 1/4 |       | 26 3/4 |       |            |        |       |        |        |         |       |           |       |                     |
|        | 18     | 25     | 34 1/4 |       | 32 3/4 |       |            |        |       |        |        |         |       |           |       |                     |
|        | 24     | 28     | 40 1/4 |       | 38 3/4 |       |            |        |       |        |        |         |       |           |       |                     |
|        | 30     | 30     | 46 1/4 |       | 44 3/4 |       |            |        |       |        |        |         |       |           |       |                     |
| PMD208 | 6      | 25     | 22 1/4 | 4 3/4 | 20 1/2 | 3     | 5/8        | 17/8   | 6 5/8 | 3 1/16 | 5 3/4  | 7 1/2   | 2 1/2 | 3/4       | 4 1/2 | 5/8 x 3             |
|        | 12     | 28     | 28 1/4 |       | 26 1/2 |       |            |        |       |        |        |         |       |           |       |                     |
|        | 18     | 31     | 34 1/4 |       | 32 1/2 |       |            |        |       |        |        |         |       |           |       |                     |
|        | 24     | 35     | 40 1/4 |       | 38 1/2 |       |            |        |       |        |        |         |       |           |       |                     |
|        | 30     | 38     | 46 1/4 |       | 44 1/2 |       |            |        |       |        |        |         |       |           |       |                     |
|        | 36     | 41     | 52 1/4 |       | 50 1/2 |       |            |        |       |        |        |         |       |           |       |                     |
| PMD300 | 12     | 59     | 33 1/4 | 5     | 31 1/2 | 3     | 3/4        | 2 3/16 | 8 1/2 | 4 1/16 | 7 5/16 | 11 1/16 | 3 3/4 | 1         | 5 3/8 | 3/4 x 3-1/2         |
|        | 18     | 64     | 39 1/4 |       | 37 1/2 |       |            |        |       |        |        |         |       |           |       |                     |
|        | 24     | 70     | 45 1/4 |       | 43 1/2 |       |            |        |       |        |        |         |       |           |       |                     |
|        | 30     | 76     | 51 1/4 |       | 49 1/2 |       |            |        |       |        |        |         |       |           |       |                     |
|        | 36     | 85     | 57 1/4 |       | 55 1/2 |       |            |        |       |        |        |         |       |           |       |                     |
|        | 42     | 88     | 63 1/4 |       | 61 1/2 |       |            |        |       |        |        |         |       |           |       |                     |
|        | 48     | 94     | 69 1/4 |       | 67 1/2 |       |            |        |       |        |        |         |       |           |       |                     |
| PMD308 | 12     | 59     | 33 1/4 | 5     | 31 1/2 | 3     | 3/4        | 2 3/16 | 8 1/2 | 4 1/16 | 7 3/16 | 11 1/16 | 3 3/4 | 1         | 5 3/8 | 7/8 x 4             |
|        | 18     | 64     | 39 1/4 |       | 37 1/2 |       |            |        |       |        |        |         |       |           |       |                     |
|        | 24     | 70     | 45 1/4 |       | 43 1/2 |       |            |        |       |        |        |         |       |           |       |                     |
|        | 30     | 76     | 51 1/4 |       | 49 1/2 |       |            |        |       |        |        |         |       |           |       |                     |
|        | 36     | 82     | 57 1/4 |       | 55 1/2 |       |            |        |       |        |        |         |       |           |       |                     |
|        | 42     | 88     | 63 1/4 |       | 61 1/2 |       |            |        |       |        |        |         |       |           |       |                     |
|        | 48     | 94     | 69 1/4 |       | 67 1/2 |       |            |        |       |        |        |         |       |           |       |                     |



- Two-piece saddle design for 2-bolt, 1-piece pillow blocks (ball, tapered or spherical)
- Extra wide saddle halves for extra strength
- Pillow block mounting bolts included
- Uses standard 2-bolt pillow block bearings
- Stainless steel threaded rods are available

| Size   | Travel | Weight | B      | C     | D      | E     | F Bolt Dia | H    | L     | N      | P | Q     | S Rod Dia | W     | Z Bolt Dia x Length |
|--------|--------|--------|--------|-------|--------|-------|------------|------|-------|--------|---|-------|-----------|-------|---------------------|
| PLD100 | 6      | 10     | 19 1/2 | 3 1/2 | 18     | 2 1/2 | 1/2        | 3/16 | 2     | 2 3/4  | 5 | 2 1/4 | 3/4       | 4     | 3/8 x 1-1/2         |
|        | 9      | 11     | 22     |       | 20 1/2 |       |            |      |       |        |   |       |           |       |                     |
|        | 12     | 12     | 25     |       | 23 1/2 |       |            |      |       |        |   |       |           |       |                     |
|        | 18     | 15     | 33 1/2 |       | 32     |       |            |      |       |        |   |       |           |       |                     |
| PLD108 | 6      | 10     | 19 1/2 | 3 1/2 | 18     | 2 1/2 | 1/2        | 3/16 | 2     | 2 3/4  | 5 | 2 1/4 | 3/4       | 4     | 1/2 x 2-1/2         |
|        | 9      | 11     | 22     |       | 20 1/2 |       |            |      |       |        |   |       |           |       |                     |
|        | 12     | 12     | 25     |       | 23 1/2 |       |            |      |       |        |   |       |           |       |                     |
|        | 18     | 16     | 33 1/2 |       | 32     |       |            |      |       |        |   |       |           |       |                     |
|        | 24     | 18     | 39 1/2 |       | 38     |       |            |      |       |        |   |       |           |       |                     |
| PLD200 | 6      | 12     | 22 1/4 | 3 1/2 | 20 3/4 | 2 1/2 | 1/2        | 3/16 | 2     | 2 3/4  | 5 | 2 1/4 | 3/4       | 4     | 5/8 x 3             |
|        | 12     | 14     | 28 1/4 |       | 26 3/4 |       |            |      |       |        |   |       |           |       |                     |
|        | 18     | 16     | 34 1/4 |       | 32 3/4 |       |            |      |       |        |   |       |           |       |                     |
|        | 24     | 18     | 40 1/4 |       | 38 3/4 |       |            |      |       |        |   |       |           |       |                     |
|        | 30     | 21     | 46 1/4 |       | 44 3/4 |       |            |      |       |        |   |       |           |       |                     |
| PLD208 | 6      | 17     | 22 1/4 | 4 1/4 | 20 1/2 | 3     | 5/8        | 1/4  | 2 5/8 | 3 3/16 | 6 | 2 3/4 | 3/4       | 4 1/2 | 5/8 x 3             |
|        | 12     | 20     | 28 1/4 |       | 26 1/2 |       |            |      |       |        |   |       |           |       |                     |
|        | 18     | 23     | 34 1/4 |       | 32 1/2 |       |            |      |       |        |   |       |           |       |                     |
|        | 24     | 26     | 40 1/4 |       | 38 1/2 |       |            |      |       |        |   |       |           |       |                     |
|        | 30     | 29     | 46 1/4 |       | 44 1/2 |       |            |      |       |        |   |       |           |       |                     |
|        | 36     | 33     | 52 1/4 |       | 50 1/2 |       |            |      |       |        |   |       |           |       |                     |
| PLD300 | 12     | 35     | 33 1/4 | 5     | 31 1/2 | 3     | 3/4        | 5/16 | 2 7/8 | 4 1/8  | 7 | 3 1/2 | 1         | 5 1/2 | 3/4 x 3-1/2         |
|        | 18     | 40     | 39 1/4 |       | 37 1/2 |       |            |      |       |        |   |       |           |       |                     |
|        | 24     | 45     | 45 1/4 |       | 43 1/2 |       |            |      |       |        |   |       |           |       |                     |
|        | 30     | 50     | 51 1/4 |       | 49 1/2 |       |            |      |       |        |   |       |           |       |                     |
|        | 36     | 54     | 57 1/4 |       | 55 1/2 |       |            |      |       |        |   |       |           |       |                     |
|        | 42     | 59     | 63 1/4 |       | 61 1/2 |       |            |      |       |        |   |       |           |       |                     |
|        | 48     | 64     | 69 1/4 |       | 67 1/2 |       |            |      |       |        |   |       |           |       |                     |
| PLD308 | 12     | 40     | 33 1/4 | 5     | 31 1/2 | 3     | 3/4        | 5/16 | 2 7/8 | 4 1/8  | 7 | 3 1/2 | 1         | 5 1/2 | 7/8 x 4             |
|        | 18     | 45     | 39 1/4 |       | 37 1/2 |       |            |      |       |        |   |       |           |       |                     |
|        | 24     | 49     | 45 1/4 |       | 43 1/2 |       |            |      |       |        |   |       |           |       |                     |
|        | 30     | 53     | 51 1/4 |       | 49 1/2 |       |            |      |       |        |   |       |           |       |                     |
|        | 36     | 58     | 57 1/4 |       | 55 1/2 |       |            |      |       |        |   |       |           |       |                     |
|        | 42     | 63     | 63 1/4 |       | 61 1/2 |       |            |      |       |        |   |       |           |       |                     |
|        | 48     | 68     | 69 1/4 |       | 67 1/2 |       |            |      |       |        |   |       |           |       |                     |

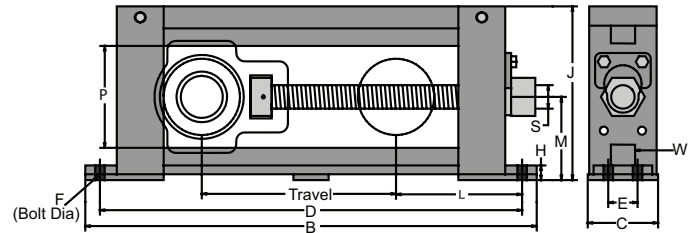
# PRECISION WIDE SLOT (PWS)



- Compact design for tight installations
- Side mount
- Use wide slot ball bearings
- In-line frame; rod force is at the center line of the bearing
- Stainless steel threaded rods are available

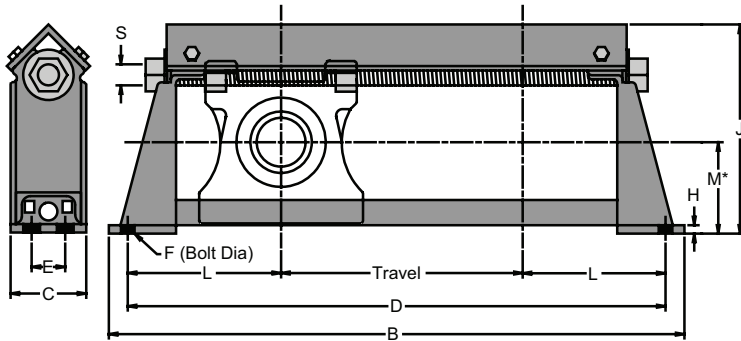
| Size   | Travel | Wt. | B      | C        | D        | E        | F Bolt Dia | # of Bolts | G       | J     | L     | M      | P      | S Rod Dia | W Bar Width |
|--------|--------|-----|--------|----------|----------|----------|------------|------------|---------|-------|-------|--------|--------|-----------|-------------|
| PWS100 | 1 1/2  | 5   | 7 1/2  | 7 5/16   | 5 3/8    | 5 9/16   | 7/16       | 4          | 2 15/16 | 2     | 1     | 1 1/16 | 3 1/16 | 5/8       | 7/16        |
|        | 3      | 6   | 9      |          | 6 7/8    |          |            | 4          |         |       |       |        |        |           |             |
|        | 6      | 7   | 12     |          | 4 15/16  |          |            | 6          |         |       |       |        |        |           |             |
|        | 9      | 8   | 15     |          | 6 7/16   |          |            | 6          |         |       |       |        |        |           |             |
|        | 12     | 10  | 18     |          | 7 15/16  |          |            | 6          |         |       |       |        |        |           |             |
| PWS108 | 3      | 6   | 9 1/8  | 7 13/16  | 6 7/16   | 6 1/16   | 7/16       | 4          | 3 11/16 | 2     | 1     | 1 1/4  | 3 9/16 | 3/4       | 7/16        |
|        | 6      | 8   | 12 1/8 |          | 9 7/16   |          |            | 4          |         |       |       |        |        |           |             |
|        | 9      | 9   | 15 1/8 |          | 6 7/32   |          |            | 6          |         |       |       |        |        |           |             |
|        | 12     | 10  | 18 1/8 |          | 7 23/32  |          |            | 6          |         |       |       |        |        |           |             |
|        | 18     | 14  | 24 1/8 |          | 10 23/32 |          |            | 6          |         |       |       |        |        |           |             |
| PWS200 | 3      | 11  | 10 3/4 | 8 9/16   | 8 1/2    | 7 5/16   | 1/2        | 4          | 4 5/16  | 2 1/2 | 1 1/8 | 1 7/16 | 4 1/16 | 1         | 5/8         |
|        | 6      | 13  | 13 3/4 |          | 11 1/2   |          |            | 4          |         |       |       |        |        |           |             |
|        | 9      | 16  | 16 3/4 |          | 7 1/4    |          |            | 6          |         |       |       |        |        |           |             |
|        | 12     | 18  | 19 3/4 |          | 8 3/4    |          |            | 6          |         |       |       |        |        |           |             |
|        | 18     | 25  | 25 3/4 |          | 11 3/4   |          |            | 6          |         |       |       |        |        |           |             |
|        | 24     | 29  | 31 3/4 |          | 14 3/4   |          |            | 6          |         |       |       |        |        |           |             |
| PWS208 | 3      | 17  | 11 3/4 | 10 11/16 | 9 1/2    | 8 5/8    | 9/16       | 4          | 5 11/16 | 3     | 1 1/8 | 1 1/2  | 5 3/16 | 1 1/4     | 1           |
|        | 6      | 20  | 14 3/4 |          | 12 1/2   |          |            | 4          |         |       |       |        |        |           |             |
|        | 9      | 24  | 17 3/4 |          | 15 1/2   |          |            | 4          |         |       |       |        |        |           |             |
|        | 12     | 28  | 20 3/4 |          | 9 1/4    |          |            | 6          |         |       |       |        |        |           |             |
|        | 18     | 35  | 26 3/4 |          | 12 1/4   |          |            | 6          |         |       |       |        |        |           |             |
|        | 24     | 43  | 32 3/4 |          | 15 1/4   |          |            | 6          |         |       |       |        |        |           |             |
|        | 30     | 50  | 38 3/4 |          | 18 1/4   |          |            | 6          |         |       |       |        |        |           |             |
| PWS300 | 9      | 41  | 20 7/8 | 12       | 17 1/2   | 10 1/4   | 5/8        | 4          | 6 1/2   | 3 1/2 | 2 1/2 | 2      | 6      | 1 1/2     | 1           |
|        | 12     | 46  | 23 7/8 |          | 10 1/4   |          |            | 6          |         |       |       |        |        |           |             |
|        | 18     | 57  | 29 7/8 |          | 13 1/4   |          |            | 6          |         |       |       |        |        |           |             |
|        | 24     | 67  | 35 7/8 |          | 16 1/4   |          |            | 6          |         |       |       |        |        |           |             |
|        | 30     | 78  | 41 7/8 |          | 19 1/4   |          |            | 6          |         |       |       |        |        |           |             |
| PWS308 | 9      | 42  | 20 7/8 | 12 9/16  | 17 1/2   | 10 13/16 | 5/8        | 4          | 6 1/2   | 3 1/2 | 2 1/2 | 2      | 6 9/16 | 1 1/2     | 1           |
|        | 12     | 47  | 23 7/8 |          | 10 1/4   |          |            | 6          |         |       |       |        |        |           |             |
|        | 18     | 58  | 29 7/8 |          | 13 1/4   |          |            | 6          |         |       |       |        |        |           |             |
|        | 24     | 68  | 35 7/8 |          | 16 1/4   |          |            | 6          |         |       |       |        |        |           |             |
|        | 30     | 79  | 41 7/8 |          | 19 1/4   |          |            | 6          |         |       |       |        |        |           |             |

- Symmetrical foot mounted frame; pull or install from either direction
- In-line frame; rod force is at the center line of the bearing
- Can be retro-fitted to a standard hydraulic cylinder (NFPA #MF1)
- Stainless steel threaded rods are available



| Size               | Travel | Wt. | B      | C  | D      | E     | F Bolt Dia | H      | J        | L        | M       | P       | S Rod Dia       | Actual Travel | W Bar Width |
|--------------------|--------|-----|--------|----|--------|-------|------------|--------|----------|----------|---------|---------|-----------------|---------------|-------------|
| PCP108             | 12     | 31  | 28     | 3  | 26     | N/A   | 1/2        | 1      | 6 7/8    | 5 1/8    | 3 7/16  | 3 9/16  | 3/4             | 16 1/8        | 7/16        |
|                    | 18     | 36  | 34     |    | 32     |       |            |        |          |          |         |         |                 | 22 1/8        |             |
|                    | 24     | 42  | 40     |    | 38     |       |            |        |          |          |         |         |                 | 28 1/8        |             |
|                    | 30     | 46  | 46     |    | 44     |       |            |        |          |          |         |         |                 | 34 1/8        |             |
|                    | 36     | 52  | 52     |    | 50     |       |            |        |          |          |         |         |                 | 40 1/8        |             |
| PCP200             | 12     | 52  | 29 1/2 | 4  | 27 1/2 | N/A   | 5/8        | 1 1/8  | 8 1/4    | 6 1/16   | 3 15/16 | 4 1/16  | 1               | 15 13/16      | 5/8         |
|                    | 18     | 59  | 35 1/2 |    | 33 1/2 |       |            |        |          |          |         |         |                 | 21 13/16      |             |
|                    | 24     | 67  | 41 1/2 |    | 39 1/2 |       |            |        |          |          |         |         |                 | 27 13/16      |             |
|                    | 30     | 74  | 47 1/2 |    | 45 1/2 |       |            |        |          |          |         |         |                 | 33 13/16      |             |
|                    | 36     | 85  | 53 1/2 |    | 51 1/2 |       |            |        |          |          |         |         |                 | 39 13/16      |             |
| PCP203             | 12     | 54  | 29 1/2 | 4  | 27 1/2 | N/A   | 5/8        | 1 1/8  | 9 1/4    | 6 11/16  | 4 7/16  | 4 9/16  | 1 1/8           | 15 1/16       | 3/4         |
|                    | 18     | 59  | 35 1/2 |    | 33 1/2 |       |            |        |          |          |         |         |                 | 21 1/16       |             |
|                    | 24     | 68  | 41 1/2 |    | 39 1/2 |       |            |        |          |          |         |         |                 | 27 1/16       |             |
|                    | 30     | 77  | 47 1/2 |    | 45 1/2 |       |            |        |          |          |         |         |                 | 33 1/16       |             |
|                    | 36     | 85  | 53 1/2 |    | 51 1/2 |       |            |        |          |          |         |         |                 | 39 1/16       |             |
| PCP208             | 12     | 60  | 30 1/2 | 4  | 28 1/2 | N/A   | 3/4        | 1 3/16 | 9 1/2    | 7 1/16   | 4 3/8   | 5 3/16  | 1 1/4           | 15 1/2        | 1           |
|                    | 18     | 70  | 36 1/2 |    | 34 1/2 |       |            |        |          |          |         |         |                 | 21 1/2        |             |
|                    | 24     | 80  | 42 1/2 |    | 40 1/2 |       |            |        |          |          |         |         |                 | 27 1/2        |             |
|                    | 30     | 90  | 48 1/2 |    | 46 1/2 |       |            |        |          |          |         |         |                 | 33 1/2        |             |
|                    | 36     | 100 | 54 1/2 |    | 52 1/2 |       |            |        |          |          |         |         |                 | 39 1/2        |             |
| PCP300             | 12     | 107 | 32 1/2 | 5  | 30 1/2 | 2     | 5/8        | 7/8    | 11 1/4   | 7 13/16  | 5 1/8   | 6       | 1 1/2           | 16 1/16       | 1 3/4       |
|                    | 18     | 129 | 38 1/2 |    | 36 1/2 |       |            |        |          |          |         |         |                 | 22 1/16       |             |
|                    | 24     | 145 | 44 1/2 |    | 42 1/2 |       |            |        |          |          |         |         |                 | 28 1/16       |             |
|                    | 30     | 162 | 50 1/2 |    | 48 1/2 |       |            |        |          |          |         |         |                 | 34 1/16       |             |
|                    | 36     | 183 | 56 1/2 |    | 54 1/2 |       |            |        |          |          |         |         |                 | 40 1/16       |             |
| PCP308             | 12     | 120 | 34 1/4 | 5  | 32     | 2     | 3/4        | 1      | 12 1/8   | 8 9/16   | 5 5/8   | 6 7/8   | 1 3/4           | 16 5/16       | 1 3/4       |
|                    | 18     | 137 | 40 1/4 |    | 38     |       |            |        |          |          |         |         |                 | 22 5/16       |             |
|                    | 24     | 154 | 46 1/4 |    | 44     |       |            |        |          |          |         |         |                 | 28 5/16       |             |
|                    | 30     | 172 | 52 1/4 |    | 50     |       |            |        |          |          |         |         |                 | 34 5/16       |             |
|                    | 36     | 190 | 58 1/4 |    | 56     |       |            |        |          |          |         |         |                 | 40 5/16       |             |
| PCP400<br>PCP400LB | 12     | 183 | 38 1/2 | 6  | 36     | 2 1/2 | 3/4        | 1 1/4  | 14 13/16 | 10 3/4   | 7       | 8 11/16 | 2<br>(1 3/4 LB) | 16 9/16       | 2           |
|                    | 18     | 207 | 44 1/2 |    | 42     |       |            |        |          |          |         |         |                 | 22 9/16       |             |
|                    | 24     | 231 | 50 1/2 |    | 48     |       |            |        |          |          |         |         |                 | 28 9/16       |             |
|                    | 30     | 255 | 56 1/2 |    | 54     |       |            |        |          |          |         |         |                 | 34 9/16       |             |
|                    | 36     | 278 | 62 1/2 |    | 60     |       |            |        |          |          |         |         |                 | 40 9/16       |             |
| PCP408             | 12     | 278 | 45 3/4 | 9  | 40 3/4 | 5     | 1 1/8      | 1 1/4  | 16 1/16  | 11 15/16 | 7 1/2   | 9 9/16  | 2               | 18 13/16      | 2           |
|                    | 18     | 307 | 51 3/4 |    | 46 3/4 |       |            |        |          |          |         |         |                 | 24 13/16      |             |
|                    | 24     | 336 | 57 3/4 |    | 52 3/4 |       |            |        |          |          |         |         |                 | 30 13/16      |             |
|                    | 30     | 365 | 63 3/4 |    | 58 3/4 |       |            |        |          |          |         |         |                 | 36 13/16      |             |
|                    | 36     | 395 | 69 3/4 |    | 64 3/4 |       |            |        |          |          |         |         |                 | 42 13/16      |             |
| PCP500             | 12     | 340 | 49 1/2 | 10 | 44 1/2 | 5 1/2 | 1 1/8      | 1 1/2  | 17 1/16  | 13 5/8   | 8 1/8   | 10 5/16 | 2 1/4           | 20            | 2           |
|                    | 18     | 368 | 55 1/2 |    | 50 1/2 |       |            |        |          |          |         |         |                 | 26            |             |
|                    | 24     | 398 | 61 1/2 |    | 56 1/2 |       |            |        |          |          |         |         |                 | 32            |             |
|                    | 30     | 429 | 67 1/2 |    | 62 1/2 |       |            |        |          |          |         |         |                 | 38            |             |
|                    | 36     | 459 | 73 1/2 |    | 68 1/2 |       |            |        |          |          |         |         |                 | 44            |             |

# PRECISION PROTECTED ANGLE (PPA)

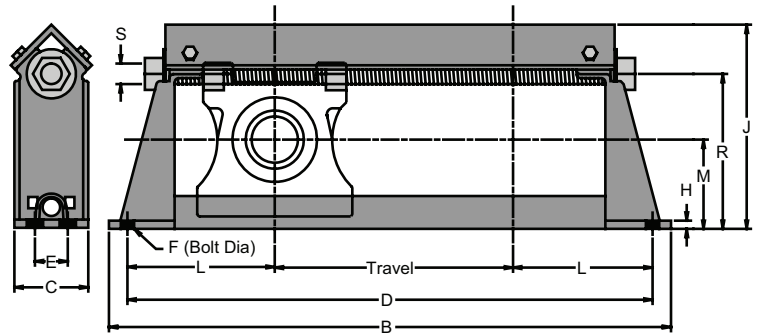


- Protected Top Angle Take-Up Frame
- Fits channel bottom housings (SFK & Linkbelt)
- Frame can be disassembled and reassembled around housing
- Stainless steel threaded rods are available

| Size   | Travel | Wt. | B      | C     | D      | E     | F Bolt Dia | H   | J      | L       | M       | S Rod Dia | Actual Travel |
|--------|--------|-----|--------|-------|--------|-------|------------|-----|--------|---------|---------|-----------|---------------|
| PPA200 | 12     | 28  | 28 1/2 | 3 1/2 | 26 1/2 | N/A   | 5/8        | 1/2 | 8 1/2  | 6 1/4   | 3 15/16 | 3/4       | 14            |
|        | 18     | 34  | 34 1/2 |       | 32 1/2 |       |            |     |        |         |         |           | 20            |
|        | 24     | 38  | 40 1/2 |       | 38 1/2 |       |            |     |        |         |         |           | 26            |
| PPA203 | 12     | 32  | 29 1/2 | 3 1/2 | 27 1/2 | N/A   | 5/8        | 1/2 | 9 1/8  | 6 5/8   | 4 3/16  | 3/4       | 14 1/4        |
|        | 18     | 38  | 35 1/2 |       | 33 1/2 |       |            |     |        |         |         |           | 20 1/4        |
|        | 24     | 43  | 41 1/2 |       | 39 1/2 |       |            |     |        |         |         |           | 26 1/4        |
| PPA208 | 12     | 42  | 30 1/2 | 4     | 28 1/2 | N/A   | 3/4        | 1/2 | 10     | 7 1/4   | 4 3/8   | 7/8       | 14            |
|        | 18     | 49  | 36 1/2 |       | 34 1/2 |       |            |     |        |         |         |           | 20            |
|        | 24     | 56  | 42 1/2 |       | 40 1/2 |       |            |     |        |         |         |           | 26            |
|        | 30     | 64  | 48 1/2 |       | 46 1/2 |       |            |     |        |         |         |           | 32            |
|        | 36     | 71  | 54 1/2 |       | 52 1/2 |       |            |     |        |         |         |           | 38            |
| PPA300 | 12     | 52  | 32 1/2 | 4 1/2 | 30 1/2 | 2     | 5/8        | 1/2 | 11     | 7 3/4   | 5 1/8   | 1         | 15            |
|        | 18     | 61  | 38 1/2 |       | 36 1/2 |       |            |     |        |         |         |           | 21            |
|        | 24     | 70  | 44 1/2 |       | 42 1/2 |       |            |     |        |         |         |           | 27            |
|        | 30     | 79  | 50 1/2 |       | 48 1/2 |       |            |     |        |         |         |           | 33            |
|        | 36     | 87  | 56 1/2 |       | 54 1/2 |       |            |     |        |         |         |           | 39            |
| PPA308 | 12     | 61  | 34 1/4 | 4 1/2 | 32     | 2     | 3/4        | 1/2 | 12 3/8 | 8 15/16 | 5 5/8   | 1 1/8     | 15            |
|        | 18     | 71  | 40 1/4 |       | 38     |       |            |     |        |         |         |           | 21            |
|        | 24     | 81  | 46 1/4 |       | 44     |       |            |     |        |         |         |           | 27            |
|        | 30     | 91  | 52 1/4 |       | 50     |       |            |     |        |         |         |           | 33            |
|        | 36     | 100 | 58 1/4 |       | 56     |       |            |     |        |         |         |           | 39            |
|        | 42     | 110 | 64 1/4 |       | 62     |       |            |     |        |         |         |           | 45            |
|        | 48     | 119 | 70 1/4 |       | 68     |       |            |     |        |         |         |           | 51            |
|        |        |     |        |       |        |       |            |     |        |         |         |           |               |
| PPA400 | 12     | 90  | 38 1/2 | 5 1/2 | 36     | 2 1/2 | 3/4        | 3/4 | 14 1/2 | 10 3/8  | 7       | 1 1/4     | 15 1/4        |
|        | 18     | 102 | 44 1/2 |       | 42     |       |            |     |        |         |         |           | 21 1/4        |
|        | 24     | 112 | 50 1/2 |       | 48     |       |            |     |        |         |         |           | 27 1/4        |
|        | 30     | 124 | 56 1/2 |       | 54     |       |            |     |        |         |         |           | 33 1/4        |
|        | 36     | 134 | 62 1/2 |       | 60     |       |            |     |        |         |         |           | 39 1/4        |
|        | 42     | 144 | 68 1/2 |       | 66     |       |            |     |        |         |         |           | 45 1/4        |
|        | 48     | 154 | 74 1/2 |       | 72     |       |            |     |        |         |         |           | 51 1/4        |
| PPA408 | 12     | 91  | 38 1/2 | 5 1/2 | 36     | 2 1/2 | 3/4        | 3/4 | 15 3/4 | 10 3/8  | 7 1/2   | 1 1/4     | 15 1/4        |
|        | 18     | 103 | 44 1/2 |       | 42     |       |            |     |        |         |         |           | 21 1/4        |
|        | 24     | 113 | 50 1/2 |       | 48     |       |            |     |        |         |         |           | 27 1/4        |
|        | 30     | 125 | 56 1/2 |       | 54     |       |            |     |        |         |         |           | 33 1/4        |
|        | 36     | 135 | 62 1/2 |       | 60     |       |            |     |        |         |         |           | 39 1/4        |
|        | 42     | 145 | 68 1/2 |       | 66     |       |            |     |        |         |         |           | 45 1/4        |
|        | 48     | 155 | 74 1/2 |       | 72     |       |            |     |        |         |         |           | 51 1/4        |

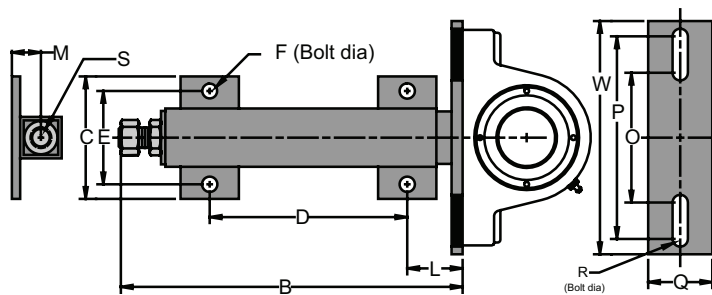


- Protected Top Angle Take-Up Frame
- Fits round bottom housings (Dodge & Linkbelt Type E)
- Frame can be disassembled and reassembled around housing
- Stainless steel threaded rods are available



| Size   | Travel | Wt. | B      | C     | D      | E     | F Bolt Dia | H   | J      | L       | M       | R      | S Rod Dia | Actual Travel |
|--------|--------|-----|--------|-------|--------|-------|------------|-----|--------|---------|---------|--------|-----------|---------------|
| PTA200 | 12     | 25  | 28 1/2 | 3 1/2 | 26 1/2 | N/A   | 5/8        | 1/2 | 8 1/2  | 6 1/4   | 3 15/16 | 6 1/4  | 3/4       | 14            |
|        | 18     | 29  | 34 1/2 |       | 32 1/2 |       |            |     |        |         |         |        |           | 20            |
|        | 24     | 33  | 40 1/2 |       | 38 1/2 |       |            |     |        |         |         |        |           | 26            |
| PTA203 | 12     | 32  | 29 1/2 | 3 1/2 | 27 1/2 | N/A   | 5/8        | 1/2 | 9 1/8  | 6 5/8   | 4 3/16  | 6 3/4  | 3/4       | 14 1/4        |
|        | 18     | 38  | 35 1/2 |       | 33 1/2 |       |            |     |        |         |         |        |           | 20 1/4        |
|        | 24     | 44  | 41 1/2 |       | 39 1/2 |       |            |     |        |         |         |        |           | 26 1/4        |
| PTA208 | 12     | 42  | 30 1/2 | 4     | 28 1/2 | N/A   | 3/4        | 1/2 | 10     | 7 1/4   | 4 3/8   | 7 3/8  | 1         | 14            |
|        | 18     | 49  | 36 1/2 |       | 34 1/2 |       |            |     |        |         |         |        |           | 20            |
|        | 24     | 56  | 42 1/2 |       | 40 1/2 |       |            |     |        |         |         |        |           | 26            |
|        | 30     | 64  | 48 1/2 |       | 46 1/2 |       |            |     |        |         |         |        |           | 32            |
|        | 36     | 71  | 54 1/2 |       | 52 1/2 |       |            |     |        |         |         |        |           | 38            |
| PTA300 | 12     | 47  | 32 1/2 | 4 1/2 | 30 1/2 | 2     | 5/8        | 1/2 | 11     | 7 3/4   | 4 15/16 | 8 3/8  | 1         | 15            |
|        | 18     | 53  | 38 1/2 |       | 36 1/2 |       |            |     |        |         |         |        |           | 21            |
|        | 24     | 60  | 44 1/2 |       | 42 1/2 |       |            |     |        |         |         |        |           | 27            |
|        | 30     | 67  | 50 1/2 |       | 48 1/2 |       |            |     |        |         |         |        |           | 33            |
|        | 36     | 73  | 56 1/2 |       | 54 1/2 |       |            |     |        |         |         |        |           | 39            |
| PTA308 | 12     | 54  | 34 1/4 | 4 1/2 | 32     | 2     | 3/4        | 1/2 | 12 3/8 | 8 15/16 | 5 7/16  | 9 1/4  | 1 1/4     | 15            |
|        | 18     | 61  | 40 1/4 |       | 38     |       |            |     |        |         |         |        |           | 21            |
|        | 24     | 69  | 46 1/4 |       | 44     |       |            |     |        |         |         |        |           | 27            |
|        | 30     | 75  | 52 1/4 |       | 50     |       |            |     |        |         |         |        |           | 33            |
|        | 36     | 83  | 58 1/4 |       | 56     |       |            |     |        |         |         |        |           | 39            |
|        | 42     | 91  | 64 1/4 |       | 62     |       |            |     |        |         |         |        |           | 45            |
|        | 48     | 98  | 70 1/4 |       | 68     |       |            |     |        |         |         |        |           | 51            |
| PTA400 | 12     | 81  | 38 1/2 | 5 1/2 | 36     | 2 1/2 | 3/4        | 3/4 | 14 1/2 | 10 3/8  | 7       | 11 1/4 | 1 1/4     | 15 1/4        |
|        | 18     | 89  | 44 1/2 |       | 42     |       |            |     |        |         |         |        |           | 21 1/4        |
|        | 24     | 97  | 50 1/2 |       | 48     |       |            |     |        |         |         |        |           | 27 1/4        |
|        | 30     | 106 | 56 1/2 |       | 54     |       |            |     |        |         |         |        |           | 33 1/4        |
|        | 36     | 114 | 62 1/2 |       | 60     |       |            |     |        |         |         |        |           | 39 1/4        |
|        | 42     | 122 | 68 1/2 |       | 66     |       |            |     |        |         |         |        |           | 45 1/4        |
|        | 48     | 130 | 74 1/2 |       | 72     |       |            |     |        |         |         |        |           | 51 1/4        |

# PRECISION SLIDE TUBE (PST)



- Slide tube design - Protects the screw from environment
- Side mount for unit ball & roller bearing pillow block bearings
- Standard grease zerk – fills the square tube to protect the screw
- In-line frame; rod force is at the center line of the bearing
- Pillow block mounting bolts are not included
- Stainless steel threaded rods are available

| Frame  | Travel | Weight | B       | C      | D      | E     | F Bolt Dia | L     | M     | O                | P                | Q     | R Bolt Dia       | S Rod Dia | W  | Slide Square Tube Size | Base Square Tube Size |
|--------|--------|--------|---------|--------|--------|-------|------------|-------|-------|------------------|------------------|-------|------------------|-----------|----|------------------------|-----------------------|
| PST250 | 3      | 5      | 9 3/4   | 4      | 4 3/8  | 3     | 1/2        | 2     | 11/8  | 3 1/16           | 5 15/16          | 2     | 5/8              | 3/4       | 7  | 1 1/2                  | 1 3/4                 |
|        | 6      | 7      | 12 3/4  |        | 7 3/8  |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
|        | 9      | 8      | 15 3/4  |        | 10 3/8 |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
|        | 12     | 9      | 18 3/4  |        | 13 3/8 |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
| PST300 | 6      | 16     | 15 5/8  | 5 1/4  | 6 1/8  | 4     | 5/8        | 2 3/8 | 1 1/2 | 5 9/16           | 8 11/16          | 2 3/4 | 3/4              | 1         | 10 | 2 1/4                  | 2 1/2                 |
|        | 9      | 18     | 18 5/8  |        | 10 1/8 |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
|        | 12     | 21     | 21 5/8  |        | 14 1/8 |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
|        | 18     | 26     | 27 5/8  |        | 21 1/8 |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
| PST350 | 9      | 24     | 19 9/16 | 6      | 12 5/8 | 4 1/2 | 5/8        | 2 1/2 | 1 3/4 | 5 9/16           | 8 11/16          | 3     | 3/4              | 1         | 10 | 2 1/2                  | 3                     |
|        | 12     | 28     | 22 9/16 |        | 15 5/8 |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
|        | 18     | 35     | 28 9/16 |        | 21 5/8 |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
|        | 24     | 43     | 34 9/16 |        | 27 5/8 |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
| PST400 | 12     | 52     | 29 3/4  | 7 1/2  | 20     | 5 1/2 | 3/4        | 3 1/2 | 2 1/8 | 8 1/2            | 11 3/4           | 3 1/2 | 7/8              | 1 1/2     | 14 | 3                      | 3 1/2                 |
|        | 18     | 62     | 35 3/4  |        | 26     |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
|        | 24     | 72     | 41 3/4  |        | 32     |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
|        | 36     | 92     | 53 3/4  |        | 44     |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
|        | 48     | 112    | 65 3/4  |        | 56     |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
| PST500 | 18     | 216    | 43 7/8  | 11 1/2 | 31     | 9     | 1          | 3 7/8 | 3 1/2 | Drilled to Order | Drilled to Order | 7     | Drilled to Order | 2         | 20 | 5                      | 6                     |
|        | 24     | 243    | 49 7/8  |        | 37     |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
|        | 36     | 299    | 61 7/8  |        | 49     |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |





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