

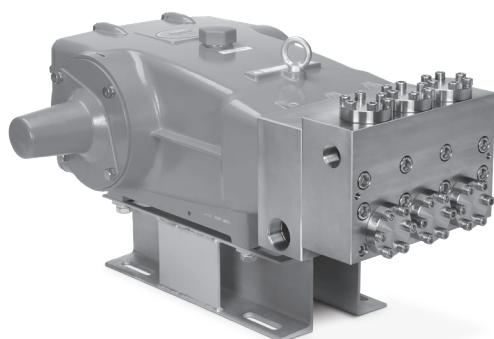
# DATA SHEET

## 68 FRAME BLOCK-STYLE PLUNGER PUMP



**Stainless Steel  
Model:**

**6832**



Model 6832 Shown  
(Box rail and shaft protector included)

### FEATURES

- Triplex plunger design ensures high efficiency and low pulsation.
- V-Packings and low-pressure seals are completely lubricated and cooled, greatly increasing service life.
- Special high-density, polished, concentric ceramic plungers provide a true wear surface and extended seal life.
- Pump comes standard with NBR seals. Alternative seal materials are available for higher temperature or chemical compatibility.

### SPECIFICATIONS

|                         | U.S. Measure      | Metric Measure     |
|-------------------------|-------------------|--------------------|
| Flow                    | 40 gpm            | 151 lpm            |
| Pressure Range          | 100–2300 psi      | 6.9–159 bar        |
| Pump RPM*               | 625 rpm           | 625 rpm            |
| Inlet Pressure Range    | Flooded to 50 psi | Flooded to 3.5 bar |
| Max. Liquid Temperature | 140° F            | 60° C              |

#### Alternate seals available for higher temperatures up to 180° F

|                     |                        |                    |
|---------------------|------------------------|--------------------|
| Bore                | 1.575"                 | 40 mm              |
| Stroke              | 2.579"                 | 65.5 mm            |
| Crankcase Capacity  | 10 qts                 | 9.46 l             |
| Inlet Ports (2)     | 1½" NPT(F)             | 1½" NPT(F)         |
| Discharge Ports (2) | 1" NPT(F)              | 1" NPT(F)          |
| Shaft Diameter      | 1.772"                 | 45 mm              |
| Weight              | 413 lbs                | 187 kg             |
| Dimensions          | 29.72 x 24.02 x 12.00" | 755 x 610 x 305 mm |

\*Pump minimum is 100 RPM.

### ALTERNATIVE SEAL CONFIGURATION

| MATERIAL | SUFFIX CODE | MAXIMUM TEMPERATURE |
|----------|-------------|---------------------|
| NBR      | —           | 140° F (60° C)      |
| FPM      | .0110       | 180° F (82° C)      |

See **Tech Bulletin 002** for inlet conditions and RPM at high-temperature.

#### DETERMINING THE PUMP RPM

$$\frac{\text{Rated gpm}}{\text{Rated rpm}} = \frac{\text{Desired gpm}}{\text{Desired rpm}}$$

#### DETERMINING THE REQUIRED HP

$$\frac{\text{hp}}{\text{(Electric Brake)}} = \frac{\text{gpm} \times \text{psi}}{1460}$$

#### DETERMINING MOTOR PULLEY SIZE

$$\frac{\text{Motor Pulley OD}}{\text{Pump rpm}} = \frac{\text{Pump Pulley OD}}{\text{Motor rpm}}$$

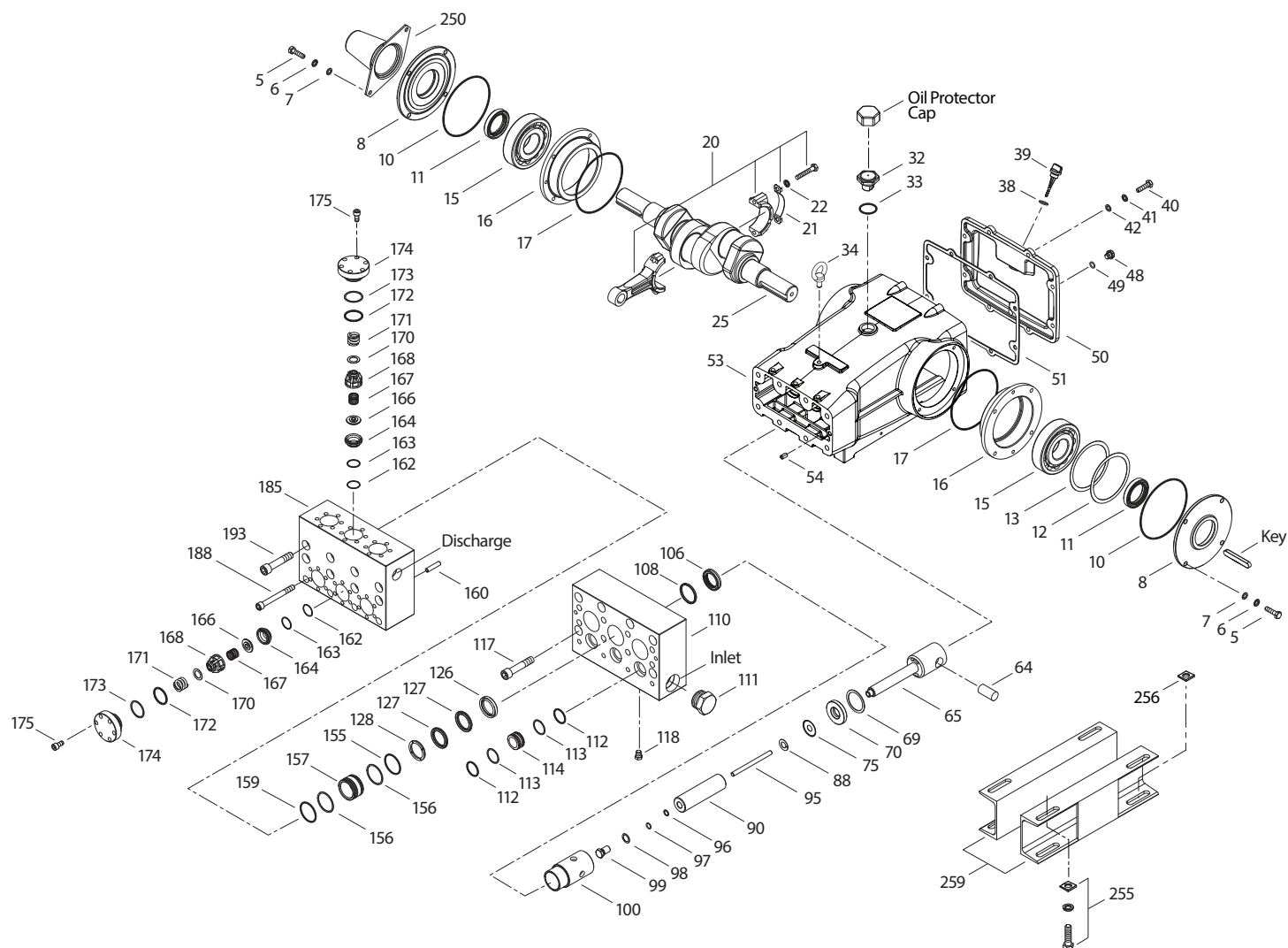
Refer to pump **Service Manual** for repair procedure and additional technical information.

# PARTS LIST

| ITEM | PART<br>NUMBER | MATL   | DESCRIPTION                                                                        | QTY |
|------|----------------|--------|------------------------------------------------------------------------------------|-----|
| 5    | 89728          | S      | Screw, HH (M10 x 40) (See Tech Bulletin 074)                                       | 8   |
| 6    | 15847          | S      | Lockwasher (M10)                                                                   | 8   |
| 7    | 19934          | S      | Washer, Flat (M10)                                                                 | 8   |
| 8    | 29443          | ALE    | Cover, Bearing, Outer (See Tech Bulletin 118)                                      | 2   |
| 10   | 29444          | NBR    | O-Ring, Bearing Cover-70D                                                          | 2   |
| 11   | 11443          | NBR    | Seal, Oil, Crankshaft                                                              | 2   |
| 12   | 126594         | STCP R | Washer, Shim (M120 x 0.3)                                                          | 0-2 |
| 13   | 126595         | STCP R | Washer, Shim (M120 x 0.5)                                                          | 0-2 |
| 15   | 29441          | STL    | Bearing, Roller                                                                    | 2   |
| 16   | 29442          | STL    | Cover Bearing, Inner                                                               | 2   |
| 17   | 29444          | NBR    | O-Ring, Bearing Cover-70D                                                          | 2   |
| 20   | 126612         | BBHS   | Assembly, Connecting Rod (Includes: 21, 22) (See Tech Bulletin 074)                | 3   |
| 21   | 126560         | STCP R | Washer, Locking                                                                    | 3   |
| 22   | 126593         | STCP R | Washer, Shim (M10.5x1.5)                                                           | 6   |
| 25   | 29440          | FCM    | Crankshaft, Dual End (M65.5)                                                       | 1   |
| 32   | 43211          | ABS    | Cap, Oil Filler                                                                    | 1   |
| 33   | 14177          | NBR    | O-Ring, Filler Cap-70D                                                             | 1   |
| 34   | 126743         | STCP R | Bolt, Eye (M12) (For Lifting Pump Only)                                            | 1   |
| 38   | 129343         | RBR    | Gasket, Flat Flex                                                                  | 1   |
| 39   | 27769          | ABS    | Stick, Dip                                                                         | 1   |
| 40   | 89627          | S      | Screw, HH (M10 x 30) (See Tech Bulletin 074)                                       | 8   |
| 41   | 15847          | S      | Lockwasher (M10)                                                                   | 8   |
| 42   | 19934          | S      | Washer, Flat (M10)                                                                 | 8   |
| 48   | 25625          | STCP   | Plug, Drain (¼" x 19 BSP)                                                          | 1   |
| 49   | 23170          | NBR    | O-Ring, Drain Plug-70D                                                             | 1   |
| 50   | 29438          | ALE    | Cover, Rear (See Tech Bulletin 118)                                                | 1   |
| 51   | 129386         | NBR    | Gasket, Rear Cover                                                                 | 1   |
| 53   | 133667         | ALE    | Crankcase (Includes: 34, 54) (See Tech Bulletin 118)                               | 1   |
| 54   | 43282          | S      | Pin, Guide                                                                         | 2   |
| 64   | 29481          | CM     | Pin, Crosshead                                                                     | 3   |
| 65   | 48735          | SSZZ   | Rod, Plunger                                                                       | 3   |
| 69   | 126588         | STCP R | Washer, Oil Seal                                                                   | 3   |
| 70   | 29454          | NBR    | Seal, Oil, Crankcase                                                               | 3   |
| 75   | 43865          | S      | Slinger, Barrier                                                                   | 3   |
| 88   | 45676          | S      | Washer, Keyhole (M16)                                                              | 3   |
| 90   | 43921          | CC     | Plunger (M40 x 145)                                                                | 3   |
| 95   | 89778          | SS     | Stud, Plunger Retainer (M10 x 135)                                                 | 3   |
| 96   | 20189          | PTFE   | Backup Ring, Plunger Retainer                                                      | 3   |
| 97   | 11345          | NBR    | O-Ring, Plunger Retainer-70D                                                       | 3   |
| 98   | 701958         | SSD    | Gasket, Plunger Retainer                                                           | 3   |
| 99   | 701957         | SSD    | Retainer, Plunger (M10) (See Tech Bulletin 074)                                    | 3   |
| 100  | 703084         | D      | Retainer, Seal                                                                     | 3   |
| 106  | 44113          | NBR    | Seal, Low-Pressure with SS-Spring                                                  | 3   |
| 108  | 701948         | SSD    | Spacer, Low-Pressure Seal                                                          | 3   |
| 110  | 704185         | SSD    | Manifold Inlet, Block-Style                                                        | 1   |
| 111  | 701983         | SSD    | Plug, Inlet Manifold (1½" NPT[M])                                                  | 1   |
| 112  | 701632         | NBR    | O-Ring, Spacer, Inlet                                                              | 6   |
| 113  | 701329         | PTFE   | Backup Ring, Spacer, Inlet                                                         | 6   |
| 114  | 704356         | SSD    | Spacer, Inlet                                                                      | 3   |
| 117  | 89694          | S      | Screw, HSH (M16 x 110) (See Tech Bulletin 074)                                     | 6   |
| 118  | 701676         | SSD    | Plug (¼" NPT[M])                                                                   | 3   |
| 126  | 48391          | D      | Adapter, Female                                                                    | 3   |
| 127  | 44609          | STG    | V-Packing                                                                          | 6   |
| 128  | 701950         | SSD    | Adapter, Male                                                                      | 3   |
| 155  | 48860          | NBR    | O-Ring, V-Packing Spacer, Inner-90D                                                | 3   |
| 156  | 48362          | D      | Backup Ring, V-Packing Spacer                                                      | 6   |
| 157  | 701952         | SSD    | Spacer, V-Packing                                                                  | 3   |
| 159  | 48860          | NBR    | O-Ring, V-Packing Spacer, Outer-90D                                                | 3   |
| 160  | 44756          | S      | Pin, Guide                                                                         | 2   |
| 162  | 48363          | D      | Backup Ring, Seat                                                                  | 6   |
| 163  | 26142          | NBR    | O-Ring, Seat-80D                                                                   | 6   |
| 164  | 701956         | SSD    | Seat                                                                               | 6   |
| 166  | 701955         | SSD    | Valve                                                                              | 6   |
| 167  | 701962         | NIH    | Spring                                                                             | 6   |
| 168  | 44728          | PVDF   | Retainer, Spring                                                                   | 6   |
| 170  | 701959         | SSD    | Washer, Retainer                                                                   | 6   |
| 171  | 701961         | HC     | Spring, Coil                                                                       | 6   |
| 172  | 89827          | NBR    | O-Ring, Valve Plug-90D                                                             | 6   |
| 173  | 48364          | D      | Backup Ring, Valve Plug                                                            | 6   |
| 174  | 704187         | SSD    | Plug, Valve                                                                        | 6   |
| 175  | 87951          | S      | Screw, HSH (M10 x 30) (See Tech Bulletin 074)                                      | 36  |
| 185  | 704186         | SSD    | Manifold, Discharge, Block-Style                                                   | 1   |
| 188  | 701279         | S      | Screw, HSH (M12 x 100), Lower (See Tech Bulletin 074)                              | 4   |
| 193  | 89694          | S      | Screw, HSH (M16 x 110), Upper (See Tech Bulletin 074)                              | 8   |
| 250  | 29445          | ALE    | Protector, Shaft (See Tech Bulletin 118)                                           | 1   |
| 255  | 33243          | STZP   | Mount, Direct                                                                      | 1   |
| 256  | 29649          | STCP   | Washer, Slant (M16) (Ensures Proper Alignment Between the Rail and Mounting Screw) | 4   |
| 259  | 126604         | STCP R | Rail, Box                                                                          | 2   |

Optional Parts and Accessories and Service parts listed on Page 3. Standard and optional Seal Kits and Valve Kits listed on page 4.

# EXPLODED VIEW



Model  
Stainless Steel – 6832  
May 2022

## OPTIONAL PARTS AND ACCESSORIES

| PART   | DESCRIPTION                                             | QTY |
|--------|---------------------------------------------------------|-----|
| 43048  | Key (M14 x 9 x 90)                                      | 1   |
| 828710 | Protector, Oil Cap with Foam Gasket                     | 1   |
| 990014 | Hub, "B", M45 with Keyway (Not Shown)                   | 1   |
| 34314  | Kit, Oil Drain (3/8" x 48") (Not Shown)                 | 1   |
| 88902  | Stud (M16 x 277) (For Removal of DM and IM) (Not Shown) | 2   |
| 819010 | Assembly, Crankcase, Cast Iron Conversion (Not Shown)   | 1   |

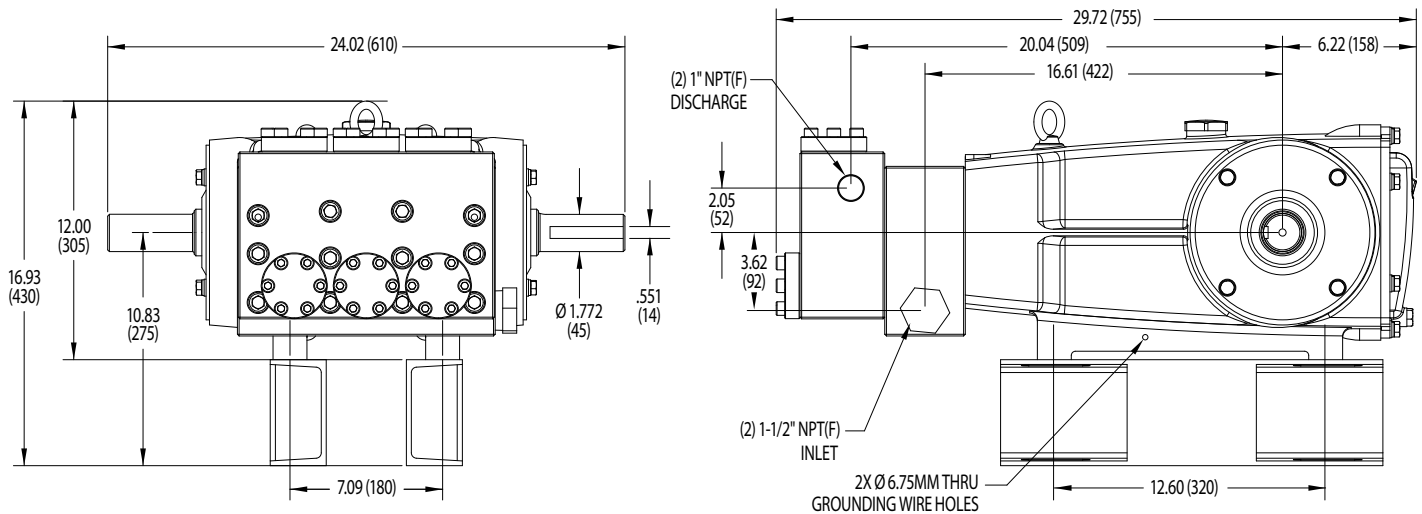
## SERVICE PARTS

| PART          | DESCRIPTION                                                                                     | QTY |
|---------------|-------------------------------------------------------------------------------------------------|-----|
| <b>701647</b> | Kit, Seal – Standard NBR                                                                        | 1   |
| <b>702770</b> | Kit, Valve – Standard NBR                                                                       | 2   |
| 6102          | Oil, Jug (2.5 gal) ISO-68 Hydraulic<br>(Fill to Specified Crankcase Capacity Prior to Start-up) | 1   |
| 6124          | Gasket, Liquid (3 oz)                                                                           | 1   |
| 6139          | Lubricant, Anti-seize (8 oz) (See Tech Bulletin 095)                                            | 1   |
| 901390        | Head, Complete, Block-Style with NBR Seals and O-Rings                                          | 1   |

**Bold print part numbers are unique to a particular pump model.**

R Components comply with RoHS Directive. For additional technical information see [www.catpumps.com/literature/tech-bulletins](http://www.catpumps.com/literature/tech-bulletins).

MATERIAL CODES (Not Part of Part Number): ABS=ABS Plastic ALE=Aluminum Epoxy BBHS=Brass/High Strength CC=Ceramic CM=Chrome-Moly D=Acetal F=Cast Iron FCM=Forged Chrome-moly FPM=Fluorocarbon NBR=Medium Nitrile (Buna-N) HC=Ni-Cr-Mo w/ Alloy NIH=High Nickel Alloy PE=Polyethylene PTFE=Pure Polytetrafluoroethylene PVDF=Polyvinylidene Fluoride RBR=Rubber S=304SS SFG=Special Blend FPM SS=316SS SSD=Duplex Stainless SSZZ=316SS/Zamak STG=Special Blend PTFE White STL=Steel STCP=Steel/Chrome Plated STZP=Steel/Zinc Plated



## SEAL KITS One (1) seal kit required per pump

| PUMP MODEL                   | NBR (STD)   | FPM (.0110) |                                   |   |
|------------------------------|-------------|-------------|-----------------------------------|---|
| 6832                         | 701647 *    | 33708       |                                   |   |
| ITEM (Included in Seal Kits) | PART NUMBER | DESCRIPTION | QTY                               |   |
| 97                           | 11345       | 11375       | O-Ring, Plunger Retainer          | 3 |
| 106                          | 44113       | 44740       | Seal, Low-Pressure with SS-Spring | 3 |
| 112                          | 701632      | 701328      | O-Ring, Inlet Spacer              | 6 |
| 113                          | 701329      | 701329      | Backup Ring, Inlet Spacer         | 6 |
| 127                          | 44609       | 44741       | V-Packing, Set (6 Piece)          | 3 |
| 155                          | 48860       | 20137       | O-Ring, V-Packing Spacer          | 3 |
| 156                          | 48362       | 48362       | Backup Ring, V-Packing Spacer     | 6 |
| 159                          | 48860       | 20137       | O-Ring, V-Packing Spacer          | 3 |

\* Review material codes for individual items (STG generally may be used as alternative)

## VALVE KITS Two (2) valve kits required per pump

| PUMP MODEL<br>6832            | NBR (STD)   | FPM (.0110) |                         |     |
|-------------------------------|-------------|-------------|-------------------------|-----|
|                               | 702770      | 77043       |                         |     |
| ITEM (Included in Valve Kits) | PART NUMBER |             | DESCRIPTION             | QTY |
| 162                           | 48363       | 48363       | Backup Ring, Valve Seat | 3   |
| 163                           | 26142       | 14330       | O-Ring, Valve Seat      | 3   |
| 164                           | 701956      | 701956      | Seat                    | 3   |
| 166                           | 701955      | 701955      | Valve                   | 3   |
| 167                           | 701962      | 701962      | Spring                  | 3   |
| 168                           | 44728       | 44728       | Retainer, Spring        | 3   |
| 170                           | 701959      | 701959      | Washer, Spring Retainer | 3   |
| 172                           | 89827       | 11747       | O-Ring, Valve Plug      | 3   |
| 173                           | 48364       | 48364       | Backup Ring, Valve Plug | 3   |

### ⚠ CAUTIONS AND WARNINGS

All high-pressure systems require a primary pressure regulating device (i.e. regulator, unloader) and a secondary pressure relief device (i.e. pop-off valve, relief valve). Failure to install such relief devices could result in personal injury or damage to pump or property. Cat Pumps does not assume any liability or responsibility for the operation of a customer's high-pressure system. Read all CAUTIONS and WARNINGS before commencing service or operation of any high-pressure system. The CAUTIONS and WARNINGS are included in each Service Manual and with each Accessory Data sheet. CAUTIONS and WARNINGS can also be viewed online at [www.catpumps.com/dynamic-literature/cautions-and-warnings](http://www.catpumps.com/dynamic-literature/cautions-and-warnings) or can be requested directly from Cat Pumps.

### WARRANTY

View the Limited Warranty online at [www.catpumps.com/literature/cat-pumps-limited-warranty](http://www.catpumps.com/literature/cat-pumps-limited-warranty)