



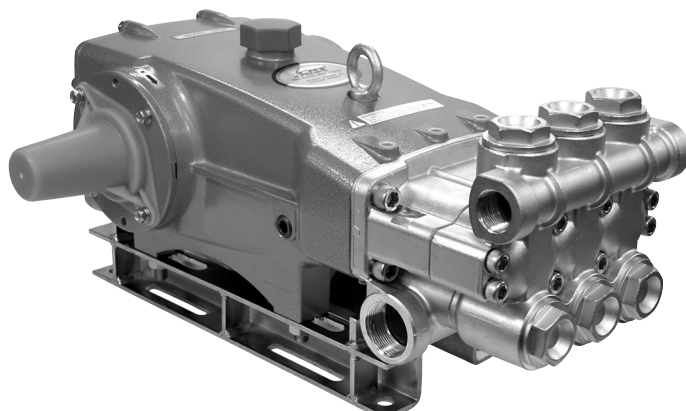
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Model 3535 Shown

(Shaft protector included, mounting rails sold separately)

## FEATURES

- Triplex design delivers high efficiency and low pulsation.
- Durable dual V-Packings are lubricated and cooled by pumped liquid.
- Pre-set Lo-Pressure Seals provide secondary protection against external leaks and require no packing adjustments.
- Special high-density, polished, concentric plungers provide a true wear surface and extended seal life.
- Specially formulated Seals and V-Packings offer unmatched performance and extended life.
- Interchangeable inlet and discharge valves for easy servicing.
- Wet-end easily serviced without entering crankcase.

### 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 Data sheet. CAUTIONS and WARNINGS can also be viewed online at [www.catpumps.com/cautions-warnings](http://www.catpumps.com/cautions-warnings) or can be requested directly from CAT PUMPS.

### WARRANTY

View the Limited Warranty on-line at [www.catpumps.com/warranty](http://www.catpumps.com/warranty).

## 35 Frame Plunger Pump

**Brass**  
**Standard and Flushed 3535, 3535C**

**Stainless Steel**  
**Standard and Flushed 3531, 3531C**

**Nickel Aluminum Bronze**  
**Standard 3537**

### SPECIFICATIONS

|                                                                                | U.S. Measure                                | Metric Measure |
|--------------------------------------------------------------------------------|---------------------------------------------|----------------|
| Flow . . . . .                                                                 | 36 gpm                                      | (136l/m)       |
| Pressure Range . . . . .                                                       | 100 to 1200 psi (7 to 85 bar)               |                |
| Inlet Pressure Range . . . . .                                                 | Flooded to 70 psi (Flooded to .9 bar)       |                |
| RPM . . . . .                                                                  | 800 rpm                                     | (800 rpm)      |
| Stroke . . . . .                                                               | 1.890"                                      | ( 8 mm)        |
| Crankcase Capacity . . . . .                                                   | .2 Qts.                                     | ( 1 )          |
| Maximum Liquid Temperature . . . . .                                           | 160°F                                       | (70°C)         |
| Above 130°F call CAT PUMPS for inlet conditions and elastomer recommendations. |                                             |                |
| Inlet Ports (2) . . . . .                                                      | 1-1/2" NPTF (1-1/2 NPTF)                    |                |
| Flushing Ports (2) (3531C, 3535C) . . . . .                                    | 1/ " NPTF                                   |                |
| Discharge Ports (2) . . . . .                                                  | 1" NPTF                                     | (1" NPTF)      |
| Pulley Mounting . . . . .                                                      | Either Side (Either Side)                   |                |
| Weight . . . . .                                                               | 139 lbs.                                    | (63 kg)        |
| Dimensions (3535, 3535C) . . . . .                                             | 23.87 x 18.11 x 9.72" (606.5 x 60 x 2 7 mm) |                |
| Dimensions (3531, 3531C, 3537) . . . . .                                       | 2 .33 x 18.11 x 9.72" (618 x 60 x 2 7 mm)   |                |

### ELECTRIC HORSEPOWER REQUIREMENTS

| FLOW |     | PRESSURE |      |      | rpm | DRIVE                                             |
|------|-----|----------|------|------|-----|---------------------------------------------------|
| U.S. |     | psi      | psi  | psi  |     |                                                   |
| gpm  | l/m | 800      | 1000 | 1200 |     |                                                   |
| 36   | 136 | 19.8     | 2 .7 | 29.7 | 800 | Consult CAT PUMPS for Pump and Motor Pulley Sizes |
| 30   | 11  | 16.5     | 20.6 | 2 .7 | 667 |                                                   |
| 25   | 95  | 13.7     | 17.2 | 20.6 | 556 |                                                   |

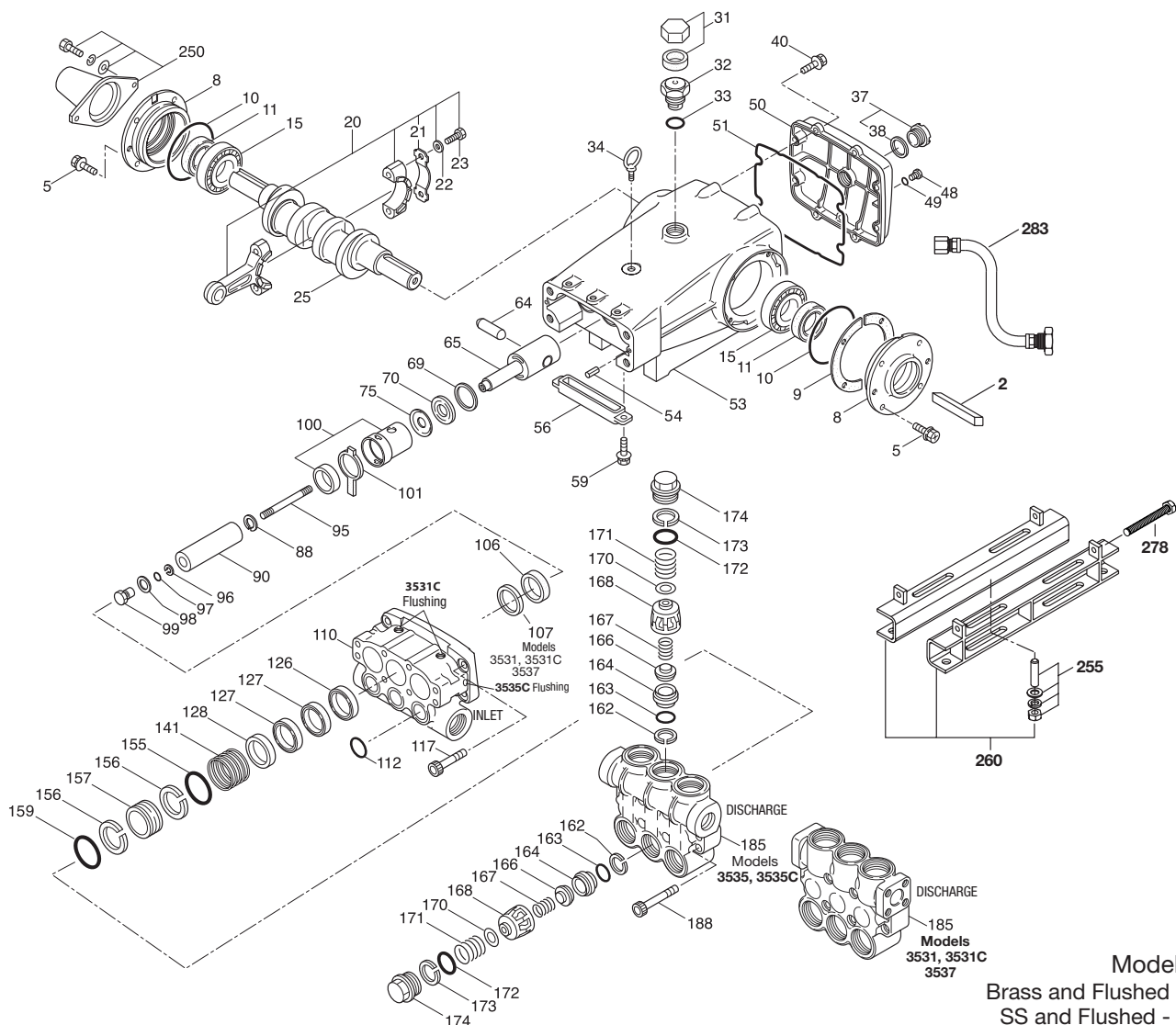
|                                      |                               |   |                                  |
|--------------------------------------|-------------------------------|---|----------------------------------|
| <b>DETERMINING THE PUMP rpm</b>      | Rated gpm<br>Rated rpm        | = | "Desired" gpm<br>"Desired" rpm   |
| <b>DETERMINING THE REQUIRED H.P.</b> | gpm x psi<br>1 60             | = | Electric Brake<br>H. P. Required |
| <b>DETERMINING MOTOR PULLEY SIZE</b> | Motor Pulley O.D.<br>Pump rpm | = | Pump Pulley O.D.<br>Motor rpm    |

See complete Drive Packages [Incls: Pulleys, Belts, Hubs, Key] Tech Bulletin 003.  
Refer to pump **Service Manual** for repair procedure and additional technical information.

*"Customer confidence is our greatest asset"*

# PARTS LIST

| ITEM | PART NUMBER |        |          |        | DESCRIPTION | QTY    |                                                                           |   |
|------|-------------|--------|----------|--------|-------------|--------|---------------------------------------------------------------------------|---|
|      | 3535        |        | 3531     |        |             |        |                                                                           |   |
|      | 3535C       | MATL   | 3531C    | MATL   | 3537        | MATL   |                                                                           |   |
| 2    | 34021       | STL    | 34021    | STL    | 34021       | STL    | Key (M10x8x70)                                                            | 1 |
| 5    | 125753      | S      | 125753   | S      | 125753      | S      | Screw, HHC Sems (M8x25)                                                   | 8 |
| 8    | 44542       | AL     | 44542    | AL     | 44542       | AL     | Cover, Bearing                                                            | 2 |
| 9    | 815279      | FBR    | 815279   | FBR    | 815279      | FBR    | Shim, Split 2-Pc                                                          | 4 |
| 10   | 12398       | NBR    | 12398    | NBR    | 12398       | NBR    | O-Ring, Bearing Cover - 70D                                               | 2 |
| 11   | 13296       | NBR    | 13296    | NBR    | 13296       | NBR    | Seal, Oil, Crankshaft                                                     | 2 |
| 15   | 29326       | STL    | 29326    | STL    | 29326       | STL    | Bearing, Roller                                                           | 2 |
| 20   | 121467      | TNM    | 121467   | TNM    | 121467      | TNM    | Rod, Connecting Assy (Incls: 21,22,23) [10/00]                            | 3 |
| 21   | 126749      | STCP R | 126749   | STCP R | 126749      | STCP R | Locking Washer (M10)                                                      | 3 |
| 22   | 126574      | STZP R | 126574   | STZP R | 126574      | STZP R | Washer, Flat (M10)                                                        | 6 |
| 23   | 122045      | STZP   | 122045   | STZP   | 122045      | STZP   | Screw, HH (M10x55)                                                        | 6 |
| 25   | 29325       | FCM    | 29325    | FCM    | 29325       | FCM    | Crankshaft, Dual End                                                      | 1 |
| 31   | 828710      | —      | 828710   | —      | 828710      | —      | Protector, Oil Cap w/Foam Gasket                                          | 1 |
| 32   | 43211       | ABS    | 43211    | ABS    | 43211       | ABS    | Cap, Oil Filler                                                           | 1 |
| 33   | 14177       | NBR    | 14177    | NBR    | 14177       | NBR    | O-Ring, Oil Filler Cap - 70D                                              | 1 |
| 34   | 126743      | STCP R | 126743   | STCP R | 126743      | STCP R | Bolt, Eye (M12x1.75) (For Lifting Pump Only)                              | 1 |
| 37   | 92241       | —      | 92241    | —      | 92241       | —      | Gauge, Oil, Bubble w/Gasket                                               | 1 |
| 38   | 44428       | NBR    | 44428    | NBR    | 44428       | NBR    | Gasket, Flat, Oil Gauge - 80D                                             | 1 |
| 40   | 125753      | S      | 125753   | S      | 125753      | S      | Screw, HHC Sems (M8x25)                                                   | 8 |
| 48   | 25625       | STCP   | 25625    | STCP   | 25625       | STCP   | Plug, Drain (1/4"x19BSP)                                                  | 1 |
| 49   | 23170       | NBR    | 23170    | NBR    | 23170       | NBR    | O-Ring, Drain Plug - 70D                                                  | 1 |
| 50   | 45936       | AL     | 45936    | AL     | 45936       | AL     | Cover, Rear                                                               | 1 |
| 51   | 16612       | NBR    | 16612    | NBR    | 16612       | NBR    | O-Ring, Crankcase Cover - 70D                                             | 1 |
| 53   | 44487       | AL     | 44487    | AL     | 44487       | AL     | Crankcase Assy (Incls: 34, 54)                                            | 1 |
| 54   | 27488       | S      | 27488    | S      | 27488       | S      | Pins, Guide                                                               | 2 |
| 56   | 27790       | POP    | 27790    | POP    | 27790       | POP    | Pan, Oil                                                                  | 1 |
| 59   | 92538       | S      | 92538    | S      | 92538       | S      | Screw, HHC Sems (M6x16)                                                   | 2 |
| 64   | 43864       | CM     | 43864    | CM     | 43864       | CM     | Pin, Crosshead                                                            | 3 |
| 65   | † 45116     | SSZZ   | 45116    | SSZZ   | 45116       | SSZZ   | Rod, Plunger                                                              | 3 |
| 69   | 126587      | STCP R | 126587   | STCP R | 126587      | STCP R | Washer, Oil Seal                                                          | 3 |
| 70   | 100488      | NBR    | 100488   | NBR    | 100488      | NBR    | Seal, Oil, Crankcase                                                      | 3 |
|      | 44739       | FPM    | 44739    | FPM    | 44739       | FPM    | Seal, Oil, Crankcase                                                      | 3 |
| 75   | 43865       | S      | 43865    | S      | 43865       | S      | Slinger, Barrier                                                          | 3 |
| 88   | 45676       | S      | 45676    | S      | 45676       | S      | Washer, Keyhole (M16)                                                     | 3 |
| 90   | 43921       | CC     | 43921    | CC     | 43921       | CC     | Plunger (M40x145)                                                         | 3 |
| 95   | † 89778     | SS     | 89778    | SS     | 89778       | SS     | Stud, Plunger Retainer (M10x135)                                          | 3 |
| 96   | 20189       | PTFE   | 20189    | PTFE   | 20189       | PTFE   | Back-up-Ring, Plunger Retainer                                            | 3 |
| 97   | 11345       | NBR    | 11345    | NBR    | 11345       | NBR    | O-Ring, Plunger Retainer - 70D                                            | 3 |
|      | 11375       | FPM    | 11375    | FPM    | 11375       | FPM    | O-Ring, Plunger Retainer                                                  | 3 |
|      | ◆ 701490    | EPDM   | ◆ 701490 | EPDM   | ◆ 701490    | EPDM   | O-Ring, Plunger Retainer                                                  | 3 |
| 98   | 44085       | SS     | 44085    | SS     | 44085       | SS     | Gasket, Retainer                                                          | 3 |
| 99   | † 44084     | SS     | 44084    | SS     | 44084       | SS     | Retainer, Plunger (M10)                                                   | 3 |
| 100  | 814279      | PVDF   | 814279   | PVDF   | 814279      | PVDF   | Retainer, Seal, 2 Pc. (See Tech Bulletin 105)                             | 3 |
| 101  | 44112       | —      | 44112    | —      | 44112       | —      | Wick, Long Tab                                                            | 3 |
| 106  | † 44113     | NBR    | 44113    | NBR    | 44113       | NBR    | Seal, LPS w/SS-Spg                                                        | 3 |
|      | 44740       | FPM    | 44740    | FPM    | 44740       | FPM    | Seal, LPS w/SS-Spg                                                        | 3 |
|      | ◆ 46955     | EPDM   | ◆ 46955  | EPDM   | ◆ 46955     | EPDM   | Seal, LPS w/S-Spg                                                         | 3 |
| 107  | —           | —      | 45381    | SS     | 44115       | NAB    | Spacer, Lo-Pressure Seal                                                  | 3 |
| 110  | 49464       | BBCP R | 45365    | SS     | 45124       | NAB    | Manifold, Inlet                                                           | 1 |
|      | 49464C      | BBCP R | 125397   | SS     | —           | —      | Manifold, Inlet, Flushed (1/4" Flush Ports)                               | 1 |
| 112  | 11379       | NBR    | 11379    | NBR    | 11379       | NBR    | O-Ring, Inlet Manifold - 70D                                              | 3 |
|      | 14183       | FPM    | 14183    | FPM    | 14183       | FPM    | O-Ring, Inlet Manifold                                                    | 3 |
|      | ◆ 701491    | EPDM   | ◆ 701491 | EPDM   | ◆ 701491    | EPDM   | O-Ring, Inlet Manifold - 70D                                              | 3 |
| 117  | 44585       | S      | 44585    | S      | 44585       | S      | Screw, HSH (M14x40)                                                       | 4 |
| 126  | 46494       | BB     | 48391    | D      | 48391       | D      | Adapter, Female (See Tech Bulletin 087)                                   | 3 |
|      | —           | —      | 45367    | SS     | 45367       | SS     | Adapter Female                                                            | 3 |
| 127  | 44609       | STG*   | 44609    | STG*   | 44609       | STG*   | V-Packing                                                                 | 6 |
|      | 44741       | SFG    | 44741    | SFG    | 44741       | SFG    | V-Packing                                                                 | 6 |
| 128  | 43928       | BB     | 45368    | SS     | 45368       | SS     | Adapter, Male                                                             | 3 |
| 141  | 49519       | SS     | 49519    | SS     | 49519       | SS     | Spring, Large Coil (See Tech Bulletin 108)                                | 3 |
| 155  | 48860       | NBR    | 48860    | NBR    | 48860       | NBR    | O-Ring, V-Packing Spacer - 90D                                            | 3 |
|      | 20137       | FPM    | 20137    | FPM    | 20137       | FPM    | O-Ring, V-Packing Spacer - 70D                                            | 3 |
|      | ◆ 701492    | EPDM   | ◆ 701492 | EPDM   | ◆ 701492    | EPDM   | O-Ring, V-Packing Spacer                                                  | 3 |
| 156  | 48362       | D      | 48362    | D      | 48362       | D      | Back-up-Ring, V-Packing Spacer                                            | 3 |
| 157  | 49478       | BB     | 49520    | SS     | 49521       | NAB    | Spacer, V-Packing (See Tech Bulletin 108)                                 | 3 |
| 158  | 48362       | D      | 48362    | D      | 48362       | D      | Back-up-Ring, V-Packing Spacer                                            | 3 |
| 159  | 48860       | NBR    | 48860    | NBR    | 48860       | NBR    | O-Ring, V-Packing Spacer - 90D                                            | 3 |
|      | 20137       | FPM    | 20137    | FPM    | 20137       | FPM    | O-Ring, V-Packing Spacer - 70D                                            | 3 |
|      | ◆ 701492    | EPDM   | ◆ 701492 | EPDM   | ◆ 701492    | EPDM   | O-Ring, V-Packing Spacer                                                  | 3 |
| 162  | 48363       | D      | 48363    | D      | 48363       | D      | Back-up-Ring, Valve Seat                                                  | 6 |
| 163  | 26142       | NBR    | 26142    | NBR    | 26142       | NBR    | O-Ring, Seat - 80D                                                        | 6 |
|      | 14330       | FPM    | 14330    | FPM    | 14330       | FPM    | O-Ring, Seat                                                              | 6 |
|      | ◆ 701493    | EPDM   | ◆ 701493 | EPDM   | ◆ 701493    | EPDM   | O-Ring, Seat                                                              | 6 |
| 164  | 44727       | S      | 44612    | SS     | 44612       | SS     | Seat, Stepped                                                             | 6 |
| 166  | 43932       | S      | 44108    | SS     | 44108       | SS     | Valve                                                                     | 6 |
| 167  | 44109       | SS     | 44109    | SS     | 44109       | SS     | Spring                                                                    | 6 |
| 168  | 44728       | PVDF   | 44728    | PVDF   | 44728       | PVDF   | Retainer, Spring                                                          | 6 |
| 170  | 44729       | SS     | 44729    | SS     | 44729       | SS     | Washer, Spring Retainer                                                   | 6 |
| 171  | 44644       | SS     | 44644    | SS     | 44644       | SS     | Coil Spring (70kg), Valve Plug                                            | 6 |
| 172  | 89827       | NBR    | 89827    | NBR    | 89827       | NBR    | O-Ring, Valve Plug - 90D                                                  | 6 |
|      | 11747       | FPM    | 11747    | FPM    | 11747       | FPM    | O-Ring, Valve Plug - 90D                                                  | 6 |
|      | ◆ 701494    | EPDM   | ◆ 701494 | EPDM   | ◆ 701494    | EPDM   | O-Ring, Valve Plug - 70D                                                  | 6 |
| 173  | 48364       | D      | 48364    | D      | 48364       | D      | Back-up-Ring, Valve Plug                                                  | 6 |
| 174  | 46444       | FBB    | 49300    | SSD    | 44643       | NAB    | Plug, Valve                                                               | 6 |
| 185  | 49465       | BBCP R | 49299    | SSD    | 76335       | NAB    | Manifold, Discharge (See Tech Bulletin 099 and 109)                       | 1 |
| 188  | 89981       | S      | 89981    | S      | 89981       | S      | Screw, HSH (M12x70)                                                       | 8 |
| 250  | 44516       | NY     | 44516    | NY     | 44516       | NY     | Protector, Shaft w/2 Screws, Lockwashers and Washers (Included With Pump) | 1 |



# Models

Brass and Flushed - 3535, 3535C

SS and Flushed - 3531, 3531C

NAB and Flushed - 3537

March 2010

|     | 3535          |               | 3531          |            | 3537          |            |                                                                          |
|-----|---------------|---------------|---------------|------------|---------------|------------|--------------------------------------------------------------------------|
|     | 3535C         | MATL          | 3531C         | MATL       | 3537          | MATL       |                                                                          |
| 255 | 34018         | STZP R        | 34018         | STZP R     | 34018         | STZP R     | Kit, Direct Mount                                                        |
|     | 34039         | S             | 34039         | S          | 34039         | S          | Kit, Direct Mount                                                        |
| 260 | 92674         | STZP R        | 92674         | STZP R     | 92674         | STZP R     | Mounting, Box Assy (Incls: 34018)                                        |
| 275 | 990013        | STL           | 990013        | STL        | 990013        | STL        | Hub, 'B' 35mm w/Keyway (See Tech Bulletin 003)                           |
| 278 | 80540         | ZP            | 80540         | ZP         | 80540         | ZP         | Screw, HH (M12x100) (Rail Adjusting Screw)                               |
| 279 | 30278         | STZP          | 30278         | STZP       | 30278         | STZP       | Oiler (1 oz.)                                                            |
| 281 | 30967         | —             | 30967         | —          | 30967         | —          | Glass, Oiler                                                             |
| 282 | 10069         | NBR           | 10069         | NBR        | 10069         | NBR        | Gasket, Oiler                                                            |
| 283 | 34314         | —             | 34314         | —          | 34314         | —          | Kit, Oil Drain (3/8" x 48")                                              |
| 290 | 6124          | —             | 6124          | —          | 6124          | —          | Gasket, Liquid (3 oz.)                                                   |
| 299 | <b>818427</b> | <b>BBCP R</b> | <b>818372</b> | <b>SS</b>  | <b>814522</b> | <b>NAB</b> | Complete Head (Models 3535,3531,3537 Only)                               |
| 300 | 31040         | NBR*          | 31040         | NBR*       | 31040         | NBR*       | Kit, Seal (Incls: 97,106,112,127,155,156,158,159)                        |
|     | 33055         | FPM           | 33055         | FPM        | 33055         | FPM        | Kit, Seal (Incls: 97,106,112,127,155,156,158,159)                        |
|     | ◆ 33262       | EPDM*         | ◆ 33262       | EPDM*      | ◆ 33262       | EPDM*      | Kit, Seal (Incls: 97,106,112,127,155,156,158,159)                        |
| 310 | <b>34235</b>  | <b>NBR</b>    | <b>34017</b>  | <b>NBR</b> | <b>34017</b>  | <b>NBR</b> | Kit, Valve, Preassembled (Incls: 162,163,164,166,167,168,170,172,173)    |
|     | 31955         | FPM           | 31955         | FPM        | 31955         | FPM        | Kit, Valve, Preassembled (Incls: 162,163,164,166,167,168,170,172,173)    |
|     | ◆ 31952       | EPDM          | ◆ 31952       | EPDM       | ◆ 31952       | EPDM       | Kit, Valve, Preassembled (Incls: 162,163,164,166,167,168,170,172,173)    |
| —   | 819000        | F             | 819000        | F          | 819000        | F          | Assy, Crankcase, Cast Iron Conversion                                    |
| 390 | 714500        | SS            | 714500        | SS         | 714500        | SS         | C.A.T. (Inlet pressure stabilizer for RO and boosted inlet applications) |
| 391 | 714506        | SS            | 714506        | SS         | 714506        | SS         | Adapter (2 per C.A.T.) (See Data Sheet for complete selection)           |
| 392 | 701828        | SS            | 701828        | SS         | 701828        | SS         | Elbow Assy used with Adapter Assy 714506                                 |
| —   | 6575          | —             | 6575          | —          | 6575          | —          | Plunger Pump Service DVD                                                 |
| —   | 6100          | —             | 6100          | —          | 6100          | —          | Oil, Case (12 Bottles) ISO -68 Hydraulic                                 |
| —   | —             | —             | 6119          | —          | —             | —          | (Fill to specified crankcase capacity prior to start-up)                 |
| —   | —             | —             | —             | —          | —             | —          | Lubricant, Antiseize (1oz) (See Tech Bulletin 095)                       |

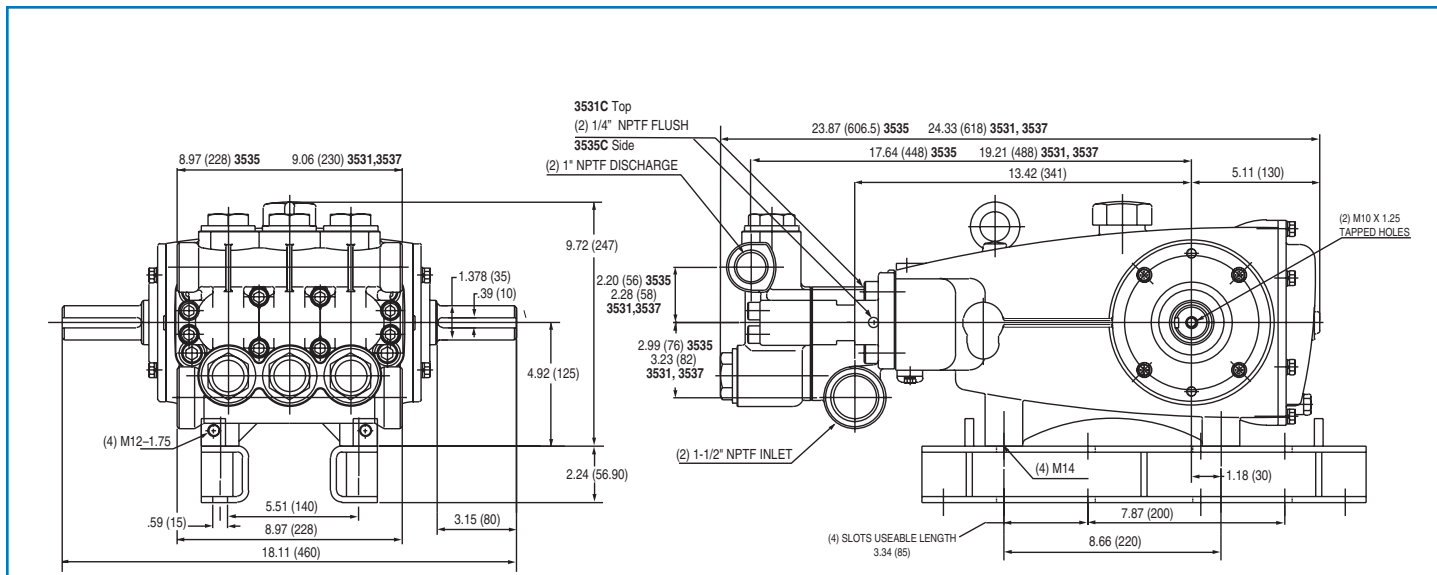
**Bold print part numbers are unique to a particular pump model. Italics are optional items. [ ]** Date of latest production change.

◆ Silicone oil/grease required.†Production parts differ from service parts.\* Review individual parts in each kit for material identification. R Components comply with RoHS Directive

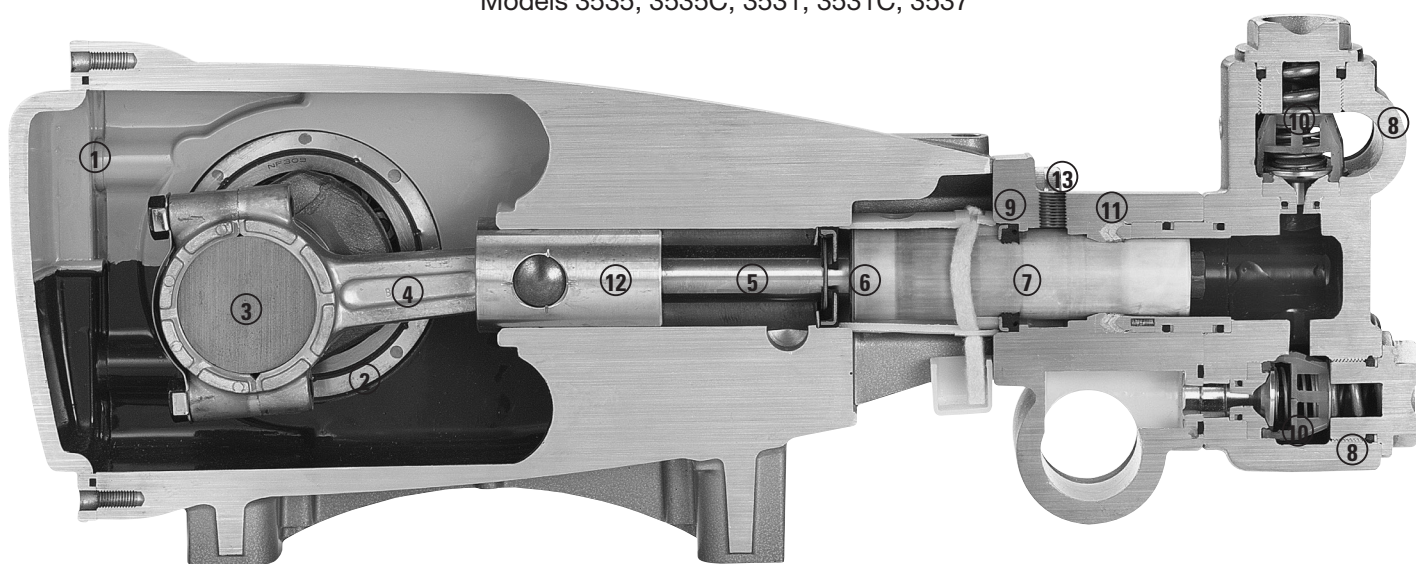
**C.A.T. highly recommended for pressurized inlet, R.O. and Industrial applications.**

View Tech Bulletins 03, 024, 035, 036, 040, 041, 043, 050, 052, 053, 069, 074, 077, 083, 095, 099, 105, 108 and 109 for additional information.

MATERIAL CODES (Not Part of Part Number): ABS=ABS Plastic AL=Aluminum BB=Brass BBP=Brass/Chrome Plated CC=Ceramic CM=Chrome-Moly D=Acetal EPDM=Ethylene Propylene Diene Monomer F=Cast Iron FBB=Forged Brass FBR=Fiber FCM=Forged Chrome-moly FPM=Fluorocarbon NAB=Nickel Aluminum Bronze NBR=Medium Nitrile (Buna-N) NBRSS=Buna, Silicone Free NY=Nylon POP=Polypropylene PTFE=Pure Polytetrafluoroethylene PVDF=Polyvinylidene Fluoride S=304SS SS=316SS SSD=Duplex Stainless Steel SSL=316/SS Low Carbon SSZZ=316SS/Zamak STCP=Steel/Chrome Plated SFG=Special Blend (FPM) STG=Special Blend (PTFE) White STL=Steel STZP=Steel/Zinc Plated TNM=Special High Strength ZP=Zinc Plated



Models 3535, 3535C, 3531, 3531C, 3537



- 1 Die cast aluminum **crankcase** means high strength, lightweight, and excellent tolerance control.
- 2 Oversized crankshaft **bearings** provide extended bearing life and pump performance.
- 3 Chrome-moly **crankshaft** provides unmatched strength and surface hardness for long life.
- 4 Matched oversized TNM **connecting rods** noted for superior tensile strength and bearing quality.  
Special stainless steel **plunger rods** with high strength crossheads for longevity and corrosion resistance.
- 6 The stainless steel **slinger** provides back-up protection for the crankcase seal, keeping pumped liquids out of the crankcase.
- 7 Special concentric, high-density, polished, solid ceramic **plungers** provide a true wear surface and extended seal life.
- 8 **Manifolds** are a high tensile strength forged brass, 316 stainless steel, duplex stainless or nickel aluminum bronze for long term, continuous duty.
- 9 100% wet **seal** design adds to service life by allowing pumped liquids to cool and lubricate on both sides.
- 10 Stainless steel **valves, seats and springs** provide corrosion-resistance, ultimate seating and extended life.
- 11 Specially formulated, Cat Pump exclusive, **V-Packings** offer unmatched performance and seal life.
- 12 **Crossheads** are 360° supported providing uncompromising alignment.
- 13 Special **Flushed Inlet Manifold** permits external flush for added cooling with high temperature liquids and lubrication with low lubricity liquids.



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