

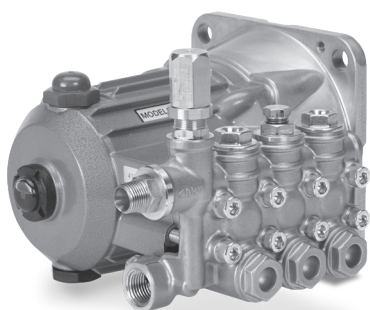
# DATA SHEET

## DIRECT DRIVE PLUNGER PUMPS



### Brass Models: **5SP30ELU, 5SP35ELU, 5SP40ELU**

See page 8 for complete pump model number selection.



Model 5SP35ELU Shown

#### FEATURES

- Fits standard 182/184TC face electric motors.
- Specially-formulated high-pressure seals and concentric solid ceramic plungers provides true wear surface and extended seal life.
- Multiple accessory ports provide plumbing flexibility.
- Compact, direct mounting reduces space requirements.
- Integral pressure unloader or regulator with built-in bypass ensures system pressure control and pump protection.
- Includes crankcase oil.

#### COMMON

| SPECIFICATIONS              | U.S. Measure        | Metric Measure       |
|-----------------------------|---------------------|----------------------|
| Pump RPM                    | 1750 rpm            | 1750 rpm             |
| Inlet Pressure Range        | Flooded to 60 psi   | Flooded to 4.1 bar   |
| Standard Liquid Temperature | 140° F              | 60° C                |
| Crankcase Capacity          | 13.5 oz             | 0.4 l                |
| Inlet Port                  | 1/2" NPT(F)         | 1/2" NPT(F)          |
| Accessory Ports (3)         | 1/4" NPT(F)         | 1/4" NPT(F)          |
| Discharge Port              | 3/8" NPT(M)         | 3/8" NPT(M)          |
| Shaft Diameter              | 1 1/8"              | 28.5 mm              |
| Weight                      | 13.2 lbs            | 6.0 kg               |
| Dimensions                  | 9.53 x 9.23 x 7.13" | 242 x 234.5 x 181 mm |

Above 130°F call Cat Pumps for inlet conditions and elastomer recommendations.

| SPECIFICATIONS  | U.S. Measure | Metric Measure |
|-----------------|--------------|----------------|
| <b>5SP30ELU</b> |              |                |
| Flow            | 3.0 gpm      | 11.4 lpm       |
| Pressure Range  | 100–3000 psi | 6.9–207 bar    |
| Bore            | 0.630"       | 16 mm          |
| Stroke          | 0.433"       | 11 mm          |
| <b>5SP35ELU</b> |              |                |
| Flow            | 3.5 gpm      | 13.2 lpm       |
| Pressure Range  | 100–2500 psi | 6.9–172 bar    |
| Bore            | 0.708"       | 18 mm          |
| Stroke          | 0.433"       | 11 mm          |
| <b>5SP40ELU</b> |              |                |
| Flow            | 4.0 gpm      | 15.1 lpm       |
| Pressure Range  | 100–2000 psi | 6.9–138 bar    |
| Bore            | 0.787"       | 20 mm          |
| Stroke          | 0.397"       | 10.1 mm        |

#### ELECTRIC HORSEPOWER REQUIREMENTS

| MODELS   | FLOW |      | PRESSURE   |     |        |     |        |     | PUMP<br>RPM |
|----------|------|------|------------|-----|--------|-----|--------|-----|-------------|
|          | GPM  | LPM  | PSI        | BAR | PSI    | BAR | PSI    | BAR |             |
|          |      |      | 2000       | 138 | 2500   | 172 | 3000   | 207 |             |
|          |      |      | Horsepower |     |        |     |        |     |             |
| 5SP30ELU | 3.0  | 11.4 | 4.1 hp     |     | 5.1 hp |     | 6.2 hp |     | 1750        |
| 5SP35ELU | 3.5  | 13.2 | 4.8 hp     |     | 6.0 hp |     | NA     |     | 1750        |
| 5SP40ELU | 4.0  | 15.1 | 5.5 hp     |     | NA     |     | NA     |     | 1750        |

|                                    |                  |   |             |
|------------------------------------|------------------|---|-------------|
| <b>DETERMINING THE PUMP RPM</b>    | Rated gpm        | = | Desired gpm |
|                                    | Rated rpm        | = | Desired rpm |
| <b>DETERMINING THE REQUIRED HP</b> | hp               | = | gpm x psi   |
|                                    | (Electric Brake) | = | 1460        |

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

## PARTS LIST

| ITEM | P/N             | MATL   | P/N             | MATL   | P/N             | MATL   | DESCRIPTION                                                                 | QTY |
|------|-----------------|--------|-----------------|--------|-----------------|--------|-----------------------------------------------------------------------------|-----|
|      | <b>5SP30ELU</b> |        | <b>5SP35ELU</b> |        | <b>5SP40ELU</b> |        |                                                                             |     |
| 5    | 127285          | STCP R | 127285          | STCP R | 127285          | STCP R | Screw, HH Sems (M8 x 25) (See Tech Bulletin 074)                            | 4   |
| 8    | 134123          | AL     | 134123          | AL     | 134123          | AL     | Cover, Bearing                                                              | 1   |
| 10   | 14043           | NBR    | 14043           | NBR    | 14043           | NBR    | O-Ring, Bearing Cover                                                       | 1   |
| 11   | 134797          | NBR    | 134797          | NBR    | 134797          | NBR    | Seal, Oil, Crankshaft                                                       | 1   |
| 15   | 134331          | STL    | 134331          | STL    | 134331          | STL    | Bearing, Ball, Inner                                                        | 1   |
| 20   | 49364           | TNM    | 49364           | TNM    | 49364           | TNM    | Rod, Connecting                                                             | 3   |
| 24   | 549608          | LDPE   | 549608          | LDPE   | 549608          | LDPE   | Plug, Oil Cap                                                               | 1   |
| 25   | <b>134345</b>   | CM     | <b>134345</b>   | CM     | —               | —      | Crankshaft, 1 1/8", (11 mm)                                                 | 1   |
|      | —               | —      | —               | —      | <b>134329</b>   | CM     | Crankshaft, 1 1/8", (10.1 mm)                                               | 1   |
| 27   | 49363           | STL    | 49363           | STL    | 49363           | STL    | Bearing, Ball, Outer                                                        | 1   |
| 31   | 549726          | —      | 549726          | —      | 549726          | —      | <i>Cap, Vented with O-Ring (Rain Cap) (Not Shown)</i>                       | 1   |
| 32   | 547961          | RTP    | 547961          | RTP    | 547961          | RTP    | Cap, Oil Filler with O-Ring                                                 | 1   |
| 33   | 14179           | NBR    | 14179           | NBR    | 14179           | NBR    | O-Ring, Filler Cap                                                          | 1   |
| 37   | 92241           | PC     | 92241           | PC     | 92241           | PC     | Gauge, Oil Bubble with Gasket (See Tech Bulletin 074)                       | 1   |
| 38   | 44428           | NBR    | 44428           | NBR    | 44428           | NBR    | Gasket, Flat, Oil Gauge                                                     | 1   |
| 48   | 44842           | NY     | 44842           | NY     | 44842           | NY     | Plug, Drain                                                                 | 1   |
| 49   | 14179           | NBR    | 14179           | NBR    | 14179           | NBR    | O-Ring, Drain Plug                                                          | 1   |
| 53   | 49352           | AL     | 49352           | AL     | 49352           | AL     | Crankcase                                                                   | 1   |
| 64   | 49366           | CM     | 49366           | CM     | 49366           | CM     | Pin, Crosshead                                                              | 3   |
| 65   | 49368           | BB     | 49368           | BB     | 49368           | BB     | Rod, Plunger                                                                | 3   |
| 70   | 47215           | NBR    | 47215           | NBR    | 47215           | NBR    | Seal, Oil Crankcase                                                         | 3   |
| 75   | 49370           | S      | 49370           | S      | 49370           | S      | Slinger, Barrier                                                            | 3   |
| 90   | <b>134351</b>   | CC     | —               | —      | —               | —      | Plunger (M16 x 30)                                                          | 3   |
|      | —               | —      | <b>134346</b>   | CC     | —               | —      | Plunger (M18 x 33)                                                          | 3   |
|      | —               | —      | —               | —      | <b>134333</b>   | CC     | Plunger (M20 x 33)                                                          | 3   |
| 98   | 46730           | NBR    | 46730           | NBR    | 46730           | NBR    | Washer, Seal                                                                | 3   |
| 99   | 49369           | S      | 49369           | S      | 49369           | S      | Retainer, Plunger (See Tech Bulletin 074)                                   | 3   |
| 100  | 49371           | NY     | 49371           | NY     | 49371           | NY     | Retainer, Seal                                                              | 3   |
| 106  | <b>48222</b>    | NBR    | <b>43243</b>    | NBR    | <b>43305</b>    | NBR    | Seal, Low-Pressure with S-Spring                                            | 3   |
| 120  | <b>134352</b>   | BB     | <b>134347</b>   | BB     | <b>134334</b>   | BB     | Case, Seal                                                                  | 3   |
| 121  | <b>13977</b>    | NBR    | <b>13977</b>    | NBR    | <b>13978</b>    | NBR    | O-Ring, Seal Case                                                           | 3   |
| 125  | <b>547157</b>   | SNG    | —               | —      | —               | —      | Seal, High-Pressure                                                         | 3   |
|      | —               | —      | <b>43245</b>    | SNG    | <b>43307</b>    | SNG    | Seal, High-Pressure with S-Support                                          | 3   |
| 160  | 14181           | NBR    | 14181           | NBR    | 14181           | NBR    | O-Ring, Valve Seat, Inlet                                                   | 3   |
| 161  | 45790           | S      | 45790           | S      | 45790           | S      | Seat, Inlet                                                                 | 3   |
| 163  | 17428           | NBR    | 17428           | NBR    | 17428           | NBR    | O-Ring, Seat, Discharge                                                     | 3   |
| 164  | 547077          | S      | 547077          | S      | 547077          | S      | Seat, Discharge                                                             | 3   |
| 165  | 43723           | S      | 43723           | S      | 43723           | S      | Valve, Inlet                                                                | 3   |
| 166  | 547098          | S      | 547098          | S      | 547098          | S      | Valve, Discharge                                                            | 3   |
| 167  | 43750           | S      | 43750           | S      | 43750           | S      | Spring, Inlet                                                               | 3   |
| 168  | 46583           | NY     | 46583           | NY     | 46583           | NY     | Retainer, Spring, Inlet                                                     | 3   |
| 169  | 49764           | PVDF   | 49764           | PVDF   | 49764           | PVDF   | Retainer, Spring, Discharge                                                 | 3   |
| 170  | 134579          | S      | 134579          | S      | 134579          | S      | Spring, Discharge                                                           | 3   |
| 171  | 49382           | NBR    | 49382           | NBR    | 49382           | NBR    | O-Ring, Valve Plug, Inlet                                                   | 3   |
| 172  | 142807          | NBR    | 142807          | NBR    | 142807          | NBR    | O-Ring, Valve Plug, Discharge                                               | 3   |
| 173  | 46756           | BB     | 46756           | BB     | 46756           | BB     | Plug, Valve, Inlet (See Tech Bulletin 074)                                  | 3   |
| 174  | 547104          | BB     | 547104          | BB     | 547104          | BB     | Plug, Valve, Discharge, with O-Ring (See Tech Bulletin 074)                 | 2   |
| 175  | 101556          | BB     | 101556          | BB     | 101556          | BB     | Plug (1/4" NPT[M])                                                          | 2   |
| 180  | 134670          | BB     | 134670          | BB     | 134670          | BB     | Plug, Valve (1/4" NPT[F]) Threaded Port with O-Ring (See Tech Bulletin 074) | 1   |
| 185  | <b>134128</b>   | BB     | <b>134127</b>   | BB     | <b>134126</b>   | BB     | Head, Manifold with Integral Unloader                                       | 1   |
| 188  | 134340          | STCP R | 134340          | STCP R | 134340          | STCP R | Screw, HSH (M6 x 55) (See Tech Bulletin 074)                                | 8   |
| 252  | 126761          | STCP R | 126761          | STCP R | 126761          | STCP R | Screw, Set (M5 x 8) (See Tech Bulletin 074)                                 | 1   |
| 253  | 134760          | STL    | 134760          | STL    | 134760          | STL    | Key (1/4" x 1/4" x 45mm)                                                    | 1   |
| 255  | 134928          | STZP R | 134928          | STZP R | 134928          | STZP R | Assembly, Bolt Mount (Includes: 252, 253)                                   | 1   |
| 300  | <b>76968</b>    | NBR    | <b>76503</b>    | NBR    | <b>33628</b>    | NBR    | <i>Kit, Seal (Includes: 98, 106, 121, 125)</i>                              | 1   |
| 310  | 76302           | NBR    | 76302           | NBR    | 76302           | NBR    | <i>Kit, Valve, Inlet (Includes: 160, 161, 165, 167, 168, 171)</i>           | 1   |
|      | 76303           | NBR    | 76303           | NBR    | 76303           | NBR    | <i>Kit, Valve, Discharge (Includes: 163, 164, 166, 169, 170, 172)</i>       | 1   |
| 400  | NA              | —      | NA              | —      | NA              | —      | Integral Unloader (See Individual Parts List)                               | 1   |
| 469  | <b>134348</b>   | BB     | <b>134348</b>   | BB     | —               | —      | Injector, Chemical (2.0 Orifice)                                            | 1   |
|      | —               | —      | —               | —      | <b>134338</b>   | BB     | Injector, Chemical (2.1 Orifice)                                            | 1   |

**Bold part numbers are unique to a particular pump model. Italics are optional items.**

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

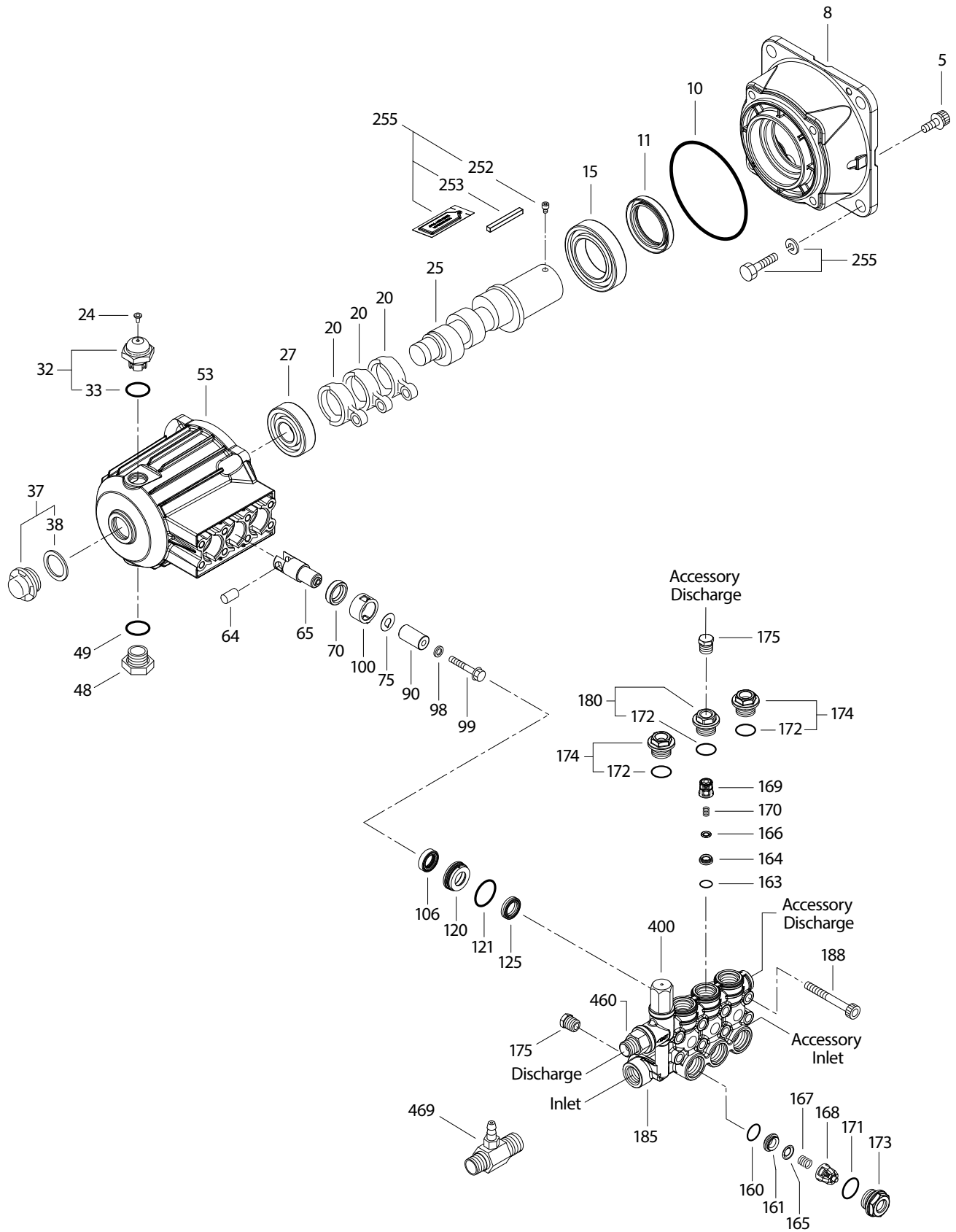
MATERIAL CODES (Not Part of Part Number): AL=Aluminum BB=Brass CC=Ceramic CM=Chrome-moly LDPE=Low Density Polyethylene

NBR=Medium Nitrile (Buna-N) NY=Nylon PC=Poly Carbonate PVDF=Polyvinylidene Fluoride RTP=Reinforced Composite S=304SS SNG=Special Blend (Buna)

STL=Steel STCP=Steel/Chrome Plated STZP=Steel/Zinc Plated TNM=Special High Strength

**NOTE:** Discard Key which may come standard with most motors and **use only the key included in this kit.**

# EXPLODED VIEW



## INTEGRAL UNLOADER/REGULATOR

### SPECIFICATIONS

|                | U.S.         | Metric      |
|----------------|--------------|-------------|
| Flow           | 4.0 gpm      | 15.1 lpm    |
| PSI Range      | 100–3000 psi | 6.9–207 bar |
| Inlet Port     | ½" NPT(F)    | ½" NPT(F)   |
| Discharge Port | ⅜" NPT(M)    | ⅜" NPT(M)   |

### PARTS LIST

| ITEM | PN            | MATL   | DESCRIPTION                                                                     | QTY |
|------|---------------|--------|---------------------------------------------------------------------------------|-----|
| 402  | 547798        | BB     | Cap, Adjusting                                                                  | 1   |
| 403  | 548671        | BB     | Nut, Locking (M18 x 1)                                                          | 1   |
| 404  | 548675        | STL    | Screw, Set (M4 x 4)                                                             | 1   |
| 408  | 32094         | STZP R | Spring, Pressure                                                                | 1   |
| 410  | 549352        | STCP R | Retainer, Spring                                                                | 1   |
| 412  | 45694         | S      | Stem, Piston (M5)                                                               | 1   |
| 414  | 20184         | PTFE   | Backup Ring, Piston Stem                                                        | 1   |
| 415  | 14190         | NBR    | O-Ring, Piston Stem                                                             | 1   |
| 418  | —             | —      | Assembly, Piston (Included In Repair Kit)                                       | 1   |
| 423  | 46249         | BB     | Retainer, Valve                                                                 | 1   |
| 424  | 13966         | NBR    | O-Ring, Valve Retainer (Outer)                                                  | 1   |
| 425  | 547799        | BB     | Retainer, Piston                                                                | 1   |
| 426  | 46250         | S      | Washer                                                                          | 1   |
| 428  | 26133         | NBR    | O-Ring, Piston Retainer                                                         | 1   |
| 429  | 17399         | NBR    | O-Ring, Valve Retainer (Inner)                                                  | 1   |
| 435  | 547800        | S      | Valve/Ball Assembly                                                             | 1   |
| 436  | <b>49664</b>  | S      | Seat (Models: 5SP30ELU, 5SP35ELU)                                               | 1   |
|      | <b>548075</b> | S      | Seat (Model: 5SP40ELU)                                                          | 1   |
| 437  | 13963         | NBR    | O-Ring, Seat                                                                    | 1   |
| 443  | 134009        | D      | Valve, Check                                                                    | 1   |
| 444  | 117275        | S      | Spring, Check Valve                                                             | 1   |
| 446  | 26133         | NBR    | O-Ring, Body                                                                    | 1   |
| 460  | 134757        | BB     | Fitting, Discharge (⅜" NPT(M)) with O-Ring                                      | 1   |
| 468  | 76499         | NBR    | Kit, O-Ring<br>(Includes: 414, 415, 424, 428, 429, 437, 446)                    | 1   |
| 469  | 134348        | BB     | Injector, Chemical Fixed (2.0 mm)<br>(Models: 5SP30ELU, 5SP35ELU)               | 1   |
|      | 134338        | BB     | Injector, Chemical Fixed (2.1 mm)<br>(Model: 5SP40ELU)                          | 1   |
| 470  | 76179         | NBR    | Kit, Repair (Includes: 418, 425, 428, 436, 437)<br>(Models: 5SP30ELU, 5SP35ELU) | 1   |
|      | 76505         | NBR    | Kit, Repair (Includes: 418, 425, 428, 436, 437)<br>(Model: 5SP40ELU)            | 1   |
| 471  | 76506*        | NBR    | Kit, Check Valve (Includes: 443, 444, 446)                                      | 1   |

\*76506 Kit Changes Regulator to Unloader

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

*Italics are optional items.* R Components comply with RoHS Directive.

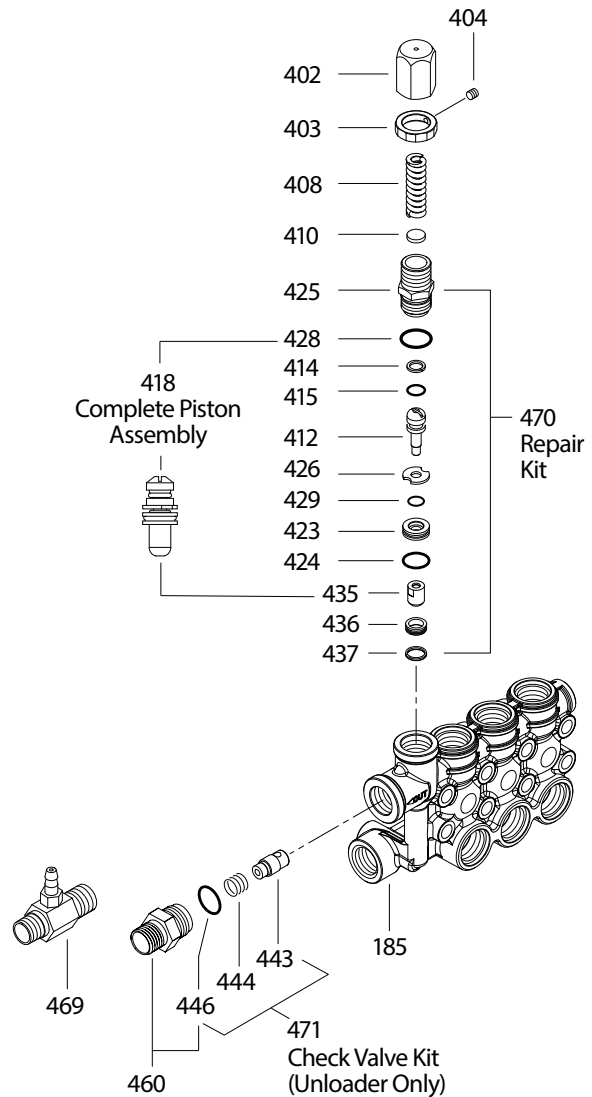
MATERIAL CODES (Not Part of Part Number): BB=Brass D=Acetal

NBR=Medium Nitrile (Buna-N) PTFE=Pure Polytetrafluoroethylene

S=304SS STCP=Steel/Chrome Plated STL=Steel

STZP=Steel/Zinc Plated

## EXPLODED VIEW



## MODELS 134348, 134338 FIXED CHEMICAL INJECTOR

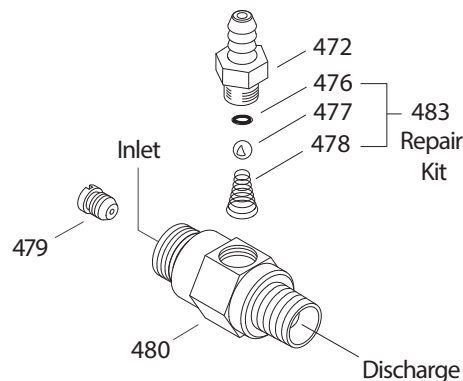
| SPECIFICATIONS          | U.S.         | METRIC          |
|-------------------------|--------------|-----------------|
| Flow                    | 3.1 gpm      | 11.7 lpm        |
| Nozzle Orifice (134348) | 2.0 mm       | 2.0 mm          |
| Nozzle Orifice (134338) | 2.1 mm       | 2.1 mm          |
| Hose Barb               | ¼"           | ¼"              |
| Inlet Port              | M18 x 1.0    | M18 x 1.0       |
| Discharge Port          | ¾" NPT(M)    | ¾" NPT(M)       |
| Weight                  | 5.3 oz       | 0.15 kg         |
| Dimensions              | 2 x 1 x 1.75 | 52 x 25 x 45 mm |

## PARTS LIST

| ITEM | PN    | MATL | DESCRIPTION                           | QTY |
|------|-------|------|---------------------------------------|-----|
| 472  | —     | BB   | Barb                                  | 1   |
| 476  | —     | NBR  | O-Ring, Barb                          | 1   |
| 477  | —     | S    | Ball                                  | 1   |
| 478  | —     | S    | Spring                                | 1   |
| 479  | —     | S    | Orifice                               | 1   |
| 480  | —     | BB   | Body                                  | 1   |
| 483  | 76176 | NBR  | Kit, Repair (Includes: 476, 477, 478) | 1   |

MATERIAL CODES (Not Part of Part Number):  
BB=Brass NBR=Medium Nitrile (Buna-N) S=304SS

## EXPLODED VIEW



## REGULATING DEVICE

An integral unloader or regulator with built-in bypass is part of the discharge manifold and provides system pressure regulation and pump protection. (See back page for proper model identifications.)

## OPERATION:

Pump should be purged of air before commencing with operation. Liquid must flow through the pump without discharge restriction to ensure full system pressure is reached. Install a pressure gauge close to the manifold head of the pump to assist in setting and periodically monitoring system pressure. Setting and adjusting the regulator or unloader pressure must be done with the system turned on. Start the system with the regulator or unloader backed off to the lowest pressure setting (counterclockwise direction). Squeeze the trigger and read the pressure on the gauge at the pump. Do not read pressure at the gun or nozzle. If more pressure is desired, release the trigger, turn adjusting cap one quarter turn in a clockwise direction. Squeeze the trigger and read the pressure. Repeat this process until the desired system pressure is reached.

**NOTE:** Pressure is not set at the factory.

## SERVICE:

The regulator or unloader should be serviced on the same schedule as the seals in the pump. Refer to SSP service manual for start-up, servicing of seals and valves, torque requirements and diagnosis and maintenance chart.

## PERFORMANCE CHART

| Orifice Size | Maximum Injecting Pressure | Minimum Chemical Draw | Pressure Drop Across Orifice |
|--------------|----------------------------|-----------------------|------------------------------|
| 2.0 mm       | 100 psi                    | 52 oz/min             | 100 psi                      |

**NOTE:** Optimum performance of Chemical Injector occurs with a 35 ft high-pressure hose with a minimum ⅜" ID. The type of hose, extended lengths, reduced ID and fittings may create additional backpressure above the maximum injecting pressure rating of the injector and prevent it from drawing chemicals.

ELECTRIC MOTOR SPECIFICATIONS

Model 999839

|                |               |
|----------------|---------------|
| Horsepower     | 3.0           |
| Shaft Diameter | 1⅞"           |
| Maximum Volts  | *230/460      |
| Full Load Amps | 14.7–13.6/6.8 |
| RPM            | 1760          |
| Weight         | 99 lbs        |
| Phase          | Single        |
| Frame Size     | 184TC TEFC    |
| Service Factor | 1.15          |

Model 999809

|                |                |
|----------------|----------------|
| Horsepower     | 3.0            |
| Shaft Diameter | 1⅞"            |
| Maximum Volts  | *230/460       |
| Full Load Amps | 8.4–7.6/3.8    |
| RPM            | 1760           |
| Weight         | 100 lbs        |
| Phase          | Three          |
| Frame Size     | 182/184TC TEFC |
| Service Factor | 1.15           |

\*\* Service Factor at 208V = 1.00

Model 997634

|                |                |
|----------------|----------------|
| Horsepower     | 5.0            |
| Shaft Diameter | 1⅞"            |
| Maximum Volts  | *230/460       |
| Full Load Amps | 22.5–21.4/10.7 |
| RPM            | 1760           |
| Weight         | 113 lbs        |
| Phase          | Single         |
| Frame Size     | 184TC TEFC     |
| Service Factor | 1.15           |

Model 996543

|                |                |
|----------------|----------------|
| Horsepower     | 5.0            |
| Shaft Diameter | 1⅞"            |
| Maximum Volts  | *230/380/460   |
| Full Load Amps | 14.3–12.9/6.45 |
| RPM            | 1725           |
| Weight         | 104 lbs        |
| Phase          | Three          |
| Frame Size     | 184TC TEFC     |
| Service Factor | 1.25           |

Model 998517

|                |                   |
|----------------|-------------------|
| Horsepower     | 7.5               |
| Shaft Diameter | 1⅞"               |
| Maximum Volts  | *230/460          |
| Full Load Amps | 32.0–30.6/15.3    |
| RPM            | 1725              |
| Weight         | 180 lbs           |
| Phase          | Single            |
| Frame Size     | 213/215TCZ** TEFC |
| Service Factor | 1.15              |

\*\* Frame size – 213/215TC with 184C Face

Model 999800

|                |                   |
|----------------|-------------------|
| Horsepower     | 7.5               |
| Shaft Diameter | 1⅞"               |
| Maximum Volts  | *230/380/460      |
| Full Load Amps | 19.9–18.4/9.18    |
| RPM            | 1750              |
| Weight         | 168 lbs           |
| Phase          | Three             |
| Frame Size     | 213/215TCZ** TEFC |
| Service Factor | 1.25              |

\*\* Frame size – 213/215TC with 184C Face

Common Motor Specifications

|                                |        |
|--------------------------------|--------|
| Maximum Ambient Temperature    | 104° F |
| Hertz                          | 60 Hz  |
| Capacitor Start (Single Phase) | Yes    |

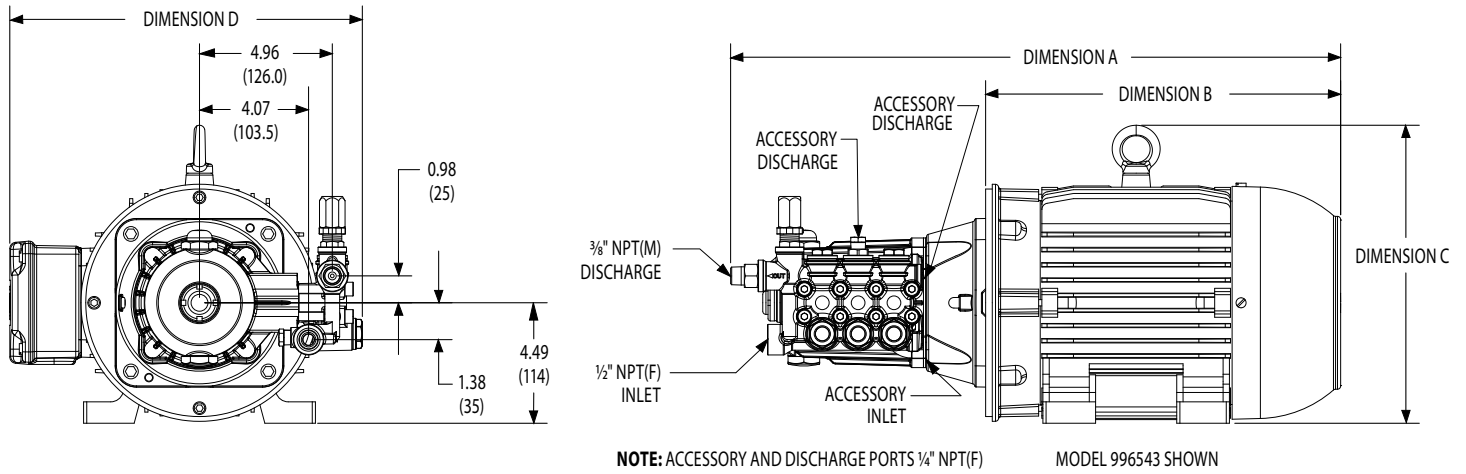
**Note:** Motor start-up Amps may vary, then settle within Full Load Amps rating after initial run-in time.

Before mounting pump on motor, apply PN 6106 Anti-Seize Lubricant to pump shaft.

Refer to **Tech Bulletin 055** for instructions on removing pump from electric motor.

\*Prior to Department of Energy (DOE) EERE-2020-BT-TP-0011 motor was name-plate rated 208/230 Volt.

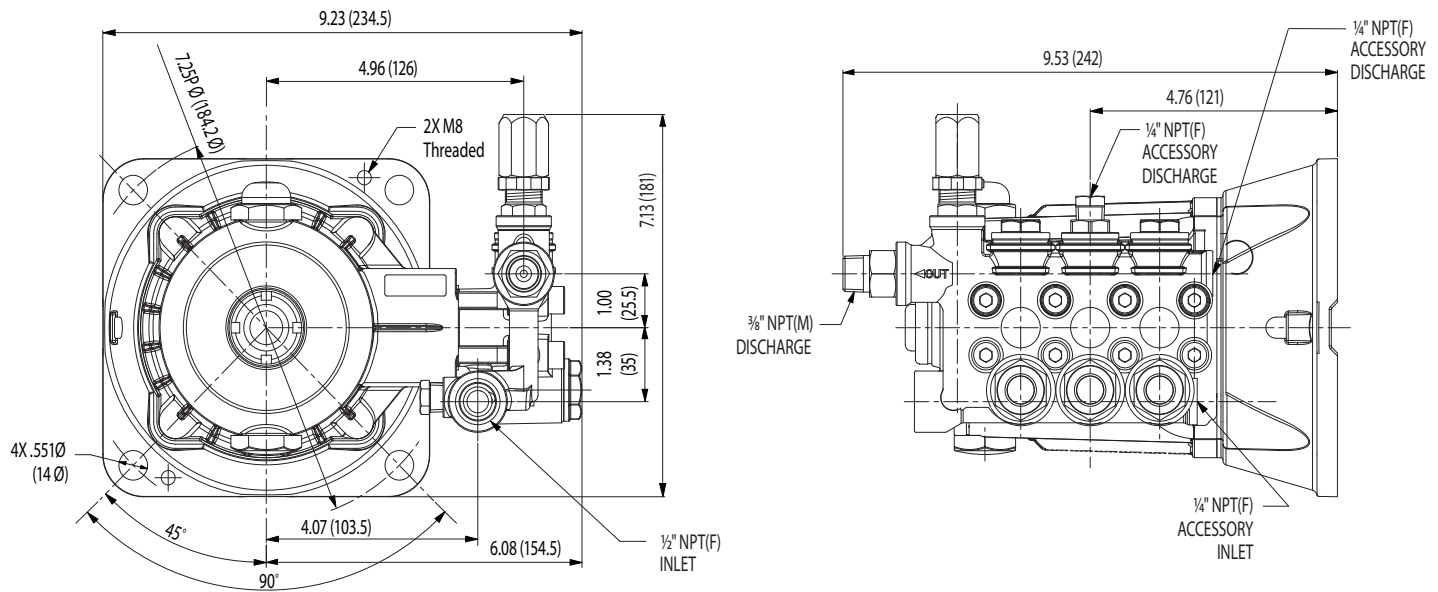
## MOTOR DIMENSIONS



| MODEL       | 999839 | 999809 | 997634 | 996543 | 998517 | 999800 |
|-------------|--------|--------|--------|--------|--------|--------|
| Dimension A | 23.79  | 22.79  | 22.79  | 22.79  | 26.35  | 25.91  |
| Dimension B | 14.26  | 13.26  | 13.26  | 13.26  | 16.82  | 16.38  |
| Dimension C | 9.15   | 11.11  | 11.11  | 11.11  | 9.15   | 12.61  |
| Dimension D | 12.20  | 13.59  | 15.80  | 13.17  | 14.60  | 14.73  |

## ELECTRIC HORSEPOWER REQUIREMENTS

| FLOW |      | PRESSURE   |     |        |     |        |     | PUMP<br>RPM |
|------|------|------------|-----|--------|-----|--------|-----|-------------|
| GPM  | LPM  | PSI        | BAR | PSI    | BAR | PSI    | BAR |             |
|      |      | 2000       | 138 | 2500   | 172 | 3000   | 207 |             |
|      |      | Horsepower |     |        |     |        |     |             |
| 3.0  | 11.4 | 4.1 hp     |     | 5.1 hp |     | 6.2 hp |     | 1750        |
| 3.5  | 13.2 | 4.8 hp     |     | 6.0 hp |     | NA     |     | 1750        |
| 4.0  | 15.1 | 5.5 hp     |     | NA     |     | NA     |     | 1750        |



Base Models 5SP30ELU, 5SP35ELU, 5SP40ELU

## 5SP Pump Series Selection Chart

| Pump Series |   |   |   |   |    |   |   |   | Pump Flow/RPM                 |      |
|-------------|---|---|---|---|----|---|---|---|-------------------------------|------|
| 5           | S | P |   |   |    |   |   |   | GPM                           | RPM  |
|             |   |   | 3 | 0 |    |   |   |   | 3.0                           | 1750 |
|             |   |   | 3 | 5 |    |   |   |   | 3.5                           | 1750 |
|             |   |   | 4 | 0 |    |   |   |   | 4.0                           | 1750 |
|             |   |   |   |   | EL |   |   |   | Electric, 1 1/8" Hollow Shaft |      |
|             |   |   |   |   |    | R |   |   | Regulating Device = Regulator |      |
|             |   |   |   |   |    | U |   |   | Regulating Device = Unloader  |      |
|             |   |   |   |   |    |   | I |   | Fixed Chemical Injector       |      |
|             |   |   |   |   |    |   |   | F | Inlet Garden Hose Fitting     |      |

### Examples:

5SP30ELU = 3.0 gpm (1750 rpm), Unloader, Standard Inlet (1/2" NPT[F])

5SP35ELUIF = 3.5 gpm (1750 rpm), Unloader, Chemical Injector, Garden Hose Inlet Fitting

5SP40ELR = 4.0 gpm (1750 rpm), Regulator, Standard Inlet (1/2" NPT[F])

### ⚠ CAUTIONS AND WARNINGS

All high-pressure systems require a primary pressure regulating device (e.g. regulator, unloader) and a secondary pressure relief device (e.g. 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)