Pumps & Accessories Catalog

Product Quality, Reliability and Support You Expect

www.catpumps.com
When It Needs to Run, Choose Cat Pumps

Cat Pumps designs and builds products to the highest quality level for one major reason: our customers depend on our products to keep their equipment running. Every design detail is optimized for long product life and reliable performance.

Cat Pumps embraces a zero defect manufacturing philosophy. Stringent process controls result in highly repeatable processes, yielding the highest level of product reliability. The Cat Pumps commitment to quality is legendary within the industry, earning the trust from customers worldwide.

Table of Contents

PRODUCT ORDERING 3
PUMP SELECTION 4
PUMP FEATURES 4
PLUNGER PUMPS 6
Direct Drive, Hollow Shaft, Brass Manifold 6
Direct Drive, Hollow Shaft, 316 Stainless Steel Manifold 7
Direct Drive, Hollow Shaft Gearbox, Brass Manifold 7
Direct Drive, Hollow Shaft Gearbox, 316 Stainless Steel Manifold 7
Direct Drive, Solid Shaft, Brass Manifold 8
Direct Drive, Solid Shaft, 316 Stainless Steel Manifold 8
Direct Drive, Solid Shaft, Nickel Aluminum Bronze Manifold 8
Solid Shaft, Brass Manifold 9
Solid Shaft, 316 Stainless Steel Manifold 11
Solid Shaft, Duplex Stainless Steel Manifold 11

PISTON PUMPS 12
Solid Shaft, Nickel Aluminum Bronze Manifold 12
Piston Pumps, Solid Shaft, Brass Manifold 12
Piston Pumps, Solid Shaft, 316 Stainless Steel Manifold 12

FLUSHED MANIFOLD PUMPS 13
Flushed Manifold Pumps, Solid Shaft 13
Flushed Manifold Pumps, Solid Shaft, 316 Stainless Steel Manifold 13
Flushed Manifold Pumps, Solid Shaft, Duplex Stainless Steel Manifold 13

HIGH-TEMPERATURE PUMPS 14
TRIETHYLENE GLYCOL (TEG) PUMPS, 240° F 14

WASHOUT RESISTANT PUMPS 15
B Series, Solid Shaft, Special Brass Manifold, Vehicle Wash 15

LIQUID CO. PUMPS 15

ATEX PUMPS 16

1CX SERIES COMPACT MISTING PUMPS 16

1XP SERIES PORTABLE EXTRACTOR PUMPS 17

CENTRIFUGAL PUMPS 18

CUSTOM PUMPING SYSTEMS 20

ACCESSORIES 22
Typical Installation 23

DISCHARGE ACCESSORIES 24
CPC Pressure Regulators 24
Unloaders, Trapped Pressure 25
Pressure Relief Valves 26
Pop-Off Valves 27
Pressure Gauges 28
Valve Plug Adapters 28
Quick Disconnect Assemblies 28
Pulsation Dampeners 29

INLET ACCESSORIES 30
Filters 30
Inlet Pressure Gauges 30
Inlet Pressure Regulators 31
Inlet Pressure Relief Valves 31
Inlet Stabilizers 31
Thermal Valves 32
Garden Hose Assemblies 32

SPECIALTY ACCESSORIES 33
Easy Start Valve 33
Throttle Control 33
Mag-Jet and Pulsator Assemblies 33
Auto Shut-Off Assemblies 34
LPS Monitors 34
Float Valves 34
Pressure Switches 35
Flow Switches 35
Thermostats 35

OPERATOR CONTROLS 36
Guns, Gun & Lance Assemblies 36
Lances 37
Nozzles 38
Vari-Nozzles 39
Foamers 39
Chemical Injectors 39
Pulse Pumps 40

LUBRICATION ACCESSORIES 41
Crankcase Oil 41
Gear Lube 41
Anti-Seize and Sealants 42
Pump Protector 42

PUMP ACCESSORIES 43
Oil Drain/Level Indicator Kits 43
Protectors – Shaft and Oil Cap 43
Keys – Direct Drive 44
Keys – Belt Drive 44
Rail, Direct Mount and Complete Mounting Assemblies 45

NEMA MOUNTING COMPONENTS 46
NEMA Bell Housing Assemblies 46
NEMA Flexible Coupler Assemblies 46

MOTOR OPTIONS 47

SAE MOUNTING COMPONENTS 48

SAE Bell Housing Assemblies 48
SAE Flexible Coupler Assemblies 48

DRIVE ACCESSORIES 49
Hubs and Hub/Key Assemblies 49
Clutches 49

SERVICE TOOLS 50

Pulleys and Pulley/Hub w/Key 50
Pliers 50
Oil Gauge Removal Tool 50
Seal Case Removal Tools 51
Piston Pump Tools 51
Crankcase Oil Seal Kit 51

NEW PRODUCTS AND UPDATES 52

CAT PUMPS RESOURCES ON-DEMAND 54

CUSTOMER SERVICE 55

CAT PUMPS LOCATIONS 56
Product Ordering

Using This Catalog

The pump sections of this catalog are organized by drive type/flow rate/manifold materials (brass, 316 stainless steel, duplex stainless steel and nickel aluminum bronze). The model numbers listed represent standard pumps equipped with Buna-N seals and O-rings, except for specialty pumps, such as CO₂, TEG and portable extractors, which are fitted with unique seals for the application.

Standard Buna-N pump seals and/or O-rings can be changed by adding a suffix to the standard model number that represents the desired new seal material.

Optional Seal and O-Ring Configurations

<table>
<thead>
<tr>
<th>MATERIAL CODE</th>
<th>DESCRIPTION</th>
<th>MAX. TEMPERATURE *</th>
<th>PUMP MODEL SUFFIX</th>
</tr>
</thead>
<tbody>
<tr>
<td>NBR</td>
<td>Medium Nitrile (Buna-N) Seals and O-Rings</td>
<td>160° F (71° C)</td>
<td>—</td>
</tr>
<tr>
<td>FPM</td>
<td>Fluorocarbon (Viton®) Seals and O-Rings, Chemical Resistance</td>
<td>180° F (82° C)</td>
<td>.0110</td>
</tr>
<tr>
<td>EPDM</td>
<td>Ethylene Propylene Diene Monomer Seals and O-Rings</td>
<td>160° F (71° C)</td>
<td>.0220</td>
</tr>
<tr>
<td>HT</td>
<td>High-Temperature High-Pressure Seals</td>
<td>180° F (82° C)</td>
<td>.3000</td>
</tr>
<tr>
<td>STHT</td>
<td>High-Temperature High-Pressure Seals, Special Teflon® Low-Pressure Seals, NBR O-Rings</td>
<td>190° F (88° C)</td>
<td>.3400</td>
</tr>
<tr>
<td></td>
<td>High-Temperature High-Pressure Seals, Special Teflon® Low-Pressure Seals, FPM O-Rings</td>
<td>190° F (88° C)</td>
<td>.3410</td>
</tr>
<tr>
<td>PTFE</td>
<td>Pure Polytetrafluoroethylene (Teflon®) Seals and Buna-N O-Rings</td>
<td>190° F (88° C)</td>
<td>.0700</td>
</tr>
<tr>
<td></td>
<td>Pure Polytetrafluoroethylene (Teflon®) Seals and FPM O-Rings</td>
<td>200° F (93° C)</td>
<td>.0710</td>
</tr>
<tr>
<td>IPFE</td>
<td>I-Perfluoroelastomer (Teflon®) Seals and Isolast® O-Rings</td>
<td>200° F (93° C)</td>
<td>.0770</td>
</tr>
<tr>
<td>ST</td>
<td>Special Blend PTFE High and Low-Pressure Seals, Buna-N O-Rings</td>
<td>190° F (88° C)</td>
<td>.4400</td>
</tr>
<tr>
<td></td>
<td>Special Blend PTFE High and Low-Pressure Seals, FPM O-Rings</td>
<td>200° F (93° C)</td>
<td>.4410</td>
</tr>
<tr>
<td>NBRS</td>
<td>Buna-N Silicone-Free Seals and O-Rings</td>
<td>160° F (71° C)</td>
<td>.6000</td>
</tr>
</tbody>
</table>

FPM = Fluorocarbon, EPDM = Ethylene Propylene Diene Monomer, HT = High-Temperature (EPDM Alternative), STHT = Special PTFE High-Temperature
PTFE = Pure Polytetrafluoroethylene, IPFE = I-Perfluoroelastomer, ST = Special PTFE, NBR = Medium Nitrile (Buna-N), NBRS = Buna-N Silicon-Free Seals and O-Rings

* See individual data sheet for each pump to verify actual maximum temperature allowed.

Viton® and Teflon® are registered trademarks of DuPont Dow Elastomers.

Example

Pump model 3535 can be changed from Buna-N to FPM. To convert pump model 3535 from Buna-N seals and O-rings to FPM (Viton®), add the suffix (.0110) to the standard pump model number (3535.0110). Use this new number when ordering the pump.

Cat Pumps configures a number of pumps for special applications and certifications such as ATEX, CO₂, TEG, Flushed, High-Temp and others. Please contact Cat Pumps directly at (763) 780-5440 for more information.
Pump Selection

Cat Pumps offers a complete line of positive displacement high-pressure pumps and systems that exceed industry expectations for reliability, availability and support. When high-pressure liquid is required, Cat Pumps is the supplier of choice for pumps, pumping systems and control accessories. Applications include CO₂ extraction, washdown, mist cooling, humidification, odor control and numerous other industry uses.

Product Performance Range

A wide range of pump options are available, including a variety of products that meet various industry certifications and directives.

- Flow: 0.13 to 240 gpm (0.49 to 908 lpm)
- Pressure: 100 to 10,000 psi (6.9 to 689 bar)
- RPM: 100 to 3,450
- Liquid Temperature: -10° to 200°F (-23° to 93°C)

* Other materials available upon request.

Pump Features

1. Specially formulated, Cat Pumps exclusive high-pressure and low-pressure seals offer unmatched performance and seal life.
2. 100% wet cup/seal design adds to service life by allowing pumped fluids to cool and lubricate the elastomers on both sides.
3. Stainless steel valves, seats and springs provide corrosion resistance, positive seating and long life.
4. Chrome-moly crankshaft provides unmatched strength and surface hardness for long life.
5. The patented stepped piston rod with hard chrome-plated sleeve provides a durable wear surface and easy wet end servicing.
6. Precision-polished, solid ceramic plungers provide maximum resistance to corrosion and abrasion, extending seal life.
7. The high strength stainless steel plunger rods have a 360° supported crosshead providing uncompromising plunger rod alignment.
8. Matched oversized connecting rods are made of high-strength material with exceptional bearing quality.
9. Oversized ball bearings or tapered roller bearings provide extended bearing life.
10. High-strength, lightweight die cast aluminum crankcase with splash oil design allows operation at speeds as low as 100 RPM.
**Pump Features**

**Plunger Pumps**  
*0.13–240 gpm, 100–10,000 psi*

Plunger pumps utilize spring-loaded closed and hydraulically opened inlet and discharge valves to direct flow through the pump manifold. At the beginning of the stroke, the plunger displaces the liquid in the manifold chamber, forcing the discharge valve open. When the plunger reaches the end of the stroke, the discharge valve closes. As the plunger rod begins its backward stroke, the inlet valve opens to allow more liquid into the manifold chamber, thereby keeping a smooth forward flow of liquid.

**Piston Pumps**  
*3.0–60 gpm, 100–1,500 psi*

The design of the piston pump allows the fluid to move continually in one, smooth forward direction. This design allows greater suction capabilities and reduces the risk of cavitation provided the pump is properly primed. At the beginning of the stroke, the mechanically actuated inlet valve (and piston) will close. As the piston rod moves forward, the liquid is forced out through the discharge valves. Simultaneously, the liquid enters the pump inlet and flows in behind the inlet valve. As the piston rod begins the backward stroke, the inlet valve mechanically opens, permitting the liquid to continue its flow forward through the piston into the pumping chamber.

**SF Series Pumps**  
*0.5–4.2 gpm, 100–2,500 psi*

In SF series pumps, both the inlet and discharge valves are spring-loaded closed and hydraulically opened, similar to plunger pumps, however, they have a flow-through ceramic plunger design. The continuous forward flow characteristic of piston pumps is utilized in conjunction with the packing design of the plunger pumps. These features give SF pumps both strong suction capabilities and higher pressure performances.
### DIRECT DRIVE, HOLLOW SHAFT, BRASS MANIFOLD
**Electric Motor, 5/8" and ¾", 56C Face**

<table>
<thead>
<tr>
<th>PUMP MODEL</th>
<th>MAXIMUM FLOW</th>
<th>MAXIMUM PRESSURE</th>
<th>RPM</th>
<th>SHAFT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPM</td>
<td>LPM</td>
<td>PSI</td>
<td>BAR</td>
</tr>
<tr>
<td>4DX03ELR</td>
<td>0.3</td>
<td>1.1</td>
<td>2000</td>
<td>138</td>
</tr>
<tr>
<td>4DX10ER*</td>
<td>1.0</td>
<td>3.8</td>
<td>2000</td>
<td>138</td>
</tr>
<tr>
<td>4DX15ER*</td>
<td>1.5</td>
<td>5.7</td>
<td>2000</td>
<td>138</td>
</tr>
<tr>
<td>4DX20ER*</td>
<td>2.0</td>
<td>7.6</td>
<td>2000</td>
<td>138</td>
</tr>
<tr>
<td>4SP21ELR*</td>
<td>2.1</td>
<td>7.9</td>
<td>2000</td>
<td>138</td>
</tr>
<tr>
<td>4DX27ER*</td>
<td>2.7</td>
<td>10.3</td>
<td>2000</td>
<td>138</td>
</tr>
<tr>
<td>4SP29ELR*</td>
<td>2.85</td>
<td>10.8</td>
<td>1200</td>
<td>83</td>
</tr>
<tr>
<td>4DX30ER*</td>
<td>3.0</td>
<td>11.4</td>
<td>2000</td>
<td>138</td>
</tr>
<tr>
<td>2SF35ES</td>
<td>3.5</td>
<td>13.3</td>
<td>1500</td>
<td>103</td>
</tr>
<tr>
<td>2SF35GES</td>
<td>3.5</td>
<td>13.3</td>
<td>2000</td>
<td>138</td>
</tr>
<tr>
<td>2SP500EL</td>
<td>5.0</td>
<td>19.0</td>
<td>500</td>
<td>34.5</td>
</tr>
</tbody>
</table>

Note: Pumps rated at 3450 rpm can operate at 1725 rpm, reducing flow by 50%.

**“R” models are built with an integral pressure regulator valve. “U” models are available with an integral unloader valve.**

---

### DIRECT DRIVE, HOLLOW SHAFT, BRASS MANIFOLD
**Engine, ¾”**

<table>
<thead>
<tr>
<th>PUMP MODEL</th>
<th>MAXIMUM FLOW</th>
<th>MAXIMUM PRESSURE</th>
<th>RPM</th>
<th>SHAFT</th>
<th>HP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPM</td>
<td>LPM</td>
<td>PSI</td>
<td>BAR</td>
<td></td>
</tr>
<tr>
<td>66DX30GI</td>
<td>3.0</td>
<td>11.4</td>
<td>4000</td>
<td>276</td>
<td>3400</td>
</tr>
<tr>
<td>4SPX32GI</td>
<td>3.2</td>
<td>12.2</td>
<td>3000</td>
<td>207</td>
<td>3450</td>
</tr>
<tr>
<td>66DX35GI</td>
<td>3.5</td>
<td>13.3</td>
<td>4000</td>
<td>276</td>
<td>3400</td>
</tr>
<tr>
<td>66DX40GI</td>
<td>4.0</td>
<td>15.2</td>
<td>4000</td>
<td>276</td>
<td>3400</td>
</tr>
<tr>
<td>66DX50GI</td>
<td>5.0</td>
<td>19.0</td>
<td>3500</td>
<td>241</td>
<td>3250</td>
</tr>
</tbody>
</table>

*Consult engine manufacturer for actual torque available at required speed.

---

### DIRECT DRIVE, HOLLOW SHAFT, BRASS MANIFOLD
**Engine, 1 ¼”, 184TC Face**

<table>
<thead>
<tr>
<th>PUMP MODEL</th>
<th>MAXIMUM FLOW</th>
<th>MAXIMUM PRESSURE</th>
<th>RPM</th>
<th>SHAFT</th>
<th>HP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPM</td>
<td>LPM</td>
<td>PSI</td>
<td>BAR</td>
<td></td>
</tr>
<tr>
<td>5SP30ELR*</td>
<td>3.0</td>
<td>11.4</td>
<td>3000</td>
<td>207</td>
<td>1750</td>
</tr>
<tr>
<td>5SP35ELR*</td>
<td>3.5</td>
<td>13.3</td>
<td>2500</td>
<td>172</td>
<td>1750</td>
</tr>
<tr>
<td>5SP40ELR*</td>
<td>4.0</td>
<td>15.2</td>
<td>2000</td>
<td>138</td>
<td>1750</td>
</tr>
</tbody>
</table>

*“R” models are built with an integral pressure regulator valve. “U” models are available with an integral unloader valve.

---

### DIRECT DRIVE, HOLLOW SHAFT, BRASS MANIFOLD
**Engine, 1”**

<table>
<thead>
<tr>
<th>PUMP MODEL</th>
<th>MAXIMUM FLOW</th>
<th>MAXIMUM PRESSURE</th>
<th>RPM</th>
<th>SHAFT</th>
<th>HP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPM</td>
<td>LPM</td>
<td>PSI</td>
<td>BAR</td>
<td></td>
</tr>
<tr>
<td>66DX35G1I</td>
<td>3.5</td>
<td>13.3</td>
<td>4000</td>
<td>276</td>
<td>3400</td>
</tr>
<tr>
<td>4SPX32G1I</td>
<td>3.2</td>
<td>12.2</td>
<td>3000</td>
<td>207</td>
<td>3450</td>
</tr>
<tr>
<td>66DX35G1I</td>
<td>3.5</td>
<td>13.3</td>
<td>4000</td>
<td>276</td>
<td>3400</td>
</tr>
<tr>
<td>66DX40G1I</td>
<td>4.0</td>
<td>15.2</td>
<td>4000</td>
<td>276</td>
<td>3400</td>
</tr>
<tr>
<td>66DX50G1I</td>
<td>5.0</td>
<td>19.0</td>
<td>3500</td>
<td>241</td>
<td>3250</td>
</tr>
</tbody>
</table>

*Consult engine manufacturer for actual torque available at required speed.
**Plunger Pumps**

**DIRECT DRIVE, HOLLOW SHAFT, 316 STAINLESS STEEL MANIFOLD**

Electric Motor, 3/4", 56C Face

<table>
<thead>
<tr>
<th>PUMP MODEL</th>
<th>MAXIMUM FLOW</th>
<th>MAXIMUM PRESSURE</th>
<th>RPM</th>
<th>SHAFT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPM</td>
<td>LPM</td>
<td>PSI</td>
<td>BAR</td>
</tr>
<tr>
<td>2SF05SEEL</td>
<td>0.5</td>
<td>1.9</td>
<td>1200</td>
<td>83</td>
</tr>
<tr>
<td>2SF10SEEL</td>
<td>1.0</td>
<td>3.8</td>
<td>1200</td>
<td>83</td>
</tr>
<tr>
<td>2SF15SEEL</td>
<td>1.5</td>
<td>5.7</td>
<td>1200</td>
<td>83</td>
</tr>
<tr>
<td>2SF22SEEL</td>
<td>2.2</td>
<td>8.4</td>
<td>1200</td>
<td>83</td>
</tr>
<tr>
<td>2SF25SEEL</td>
<td>2.5</td>
<td>9.5</td>
<td>1200</td>
<td>83</td>
</tr>
<tr>
<td>2SF29SEEL</td>
<td>2.85</td>
<td>10.8</td>
<td>1200</td>
<td>83</td>
</tr>
<tr>
<td>2SF35SEEL</td>
<td>3.5</td>
<td>13.3</td>
<td>1200</td>
<td>83</td>
</tr>
<tr>
<td>2SF42SEEL</td>
<td>4.2</td>
<td>15.9</td>
<td>1200</td>
<td>83</td>
</tr>
</tbody>
</table>

**DIRECT DRIVE, HOLLOW SHAFT GEARBOX, BRASS MANIFOLD**

Engine, 3/4" and 1"

<table>
<thead>
<tr>
<th>PUMP MODEL</th>
<th>MAXIMUM FLOW</th>
<th>MAXIMUM PRESSURE</th>
<th>RPM</th>
<th>SHAFT</th>
<th>HP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPM</td>
<td>LPM</td>
<td>PSI</td>
<td>BAR</td>
<td></td>
</tr>
<tr>
<td>2SFQ22SEEL</td>
<td>0.5</td>
<td>1.9</td>
<td>1200</td>
<td>83</td>
<td>1725</td>
</tr>
<tr>
<td>2SFQ25SEEL</td>
<td>1.0</td>
<td>3.8</td>
<td>1200</td>
<td>83</td>
<td>1725</td>
</tr>
<tr>
<td>2SFQ30SEEL</td>
<td>1.5</td>
<td>5.7</td>
<td>1200</td>
<td>83</td>
<td>1725</td>
</tr>
<tr>
<td>2SFQ35SEEL</td>
<td>2.2</td>
<td>8.4</td>
<td>1200</td>
<td>83</td>
<td>1725</td>
</tr>
<tr>
<td>2SFQ40SEEL</td>
<td>2.5</td>
<td>9.5</td>
<td>1200</td>
<td>83</td>
<td>1725</td>
</tr>
<tr>
<td>2SFQ45SEEL</td>
<td>2.85</td>
<td>10.8</td>
<td>1200</td>
<td>83</td>
<td>1725</td>
</tr>
</tbody>
</table>

Note: All 1" Gearboxes are also available in 1 1/8" size (G118).

*Consult engine manufacturer for actual torque available at required speed.

**DIRECT DRIVE, HOLLOW SHAFT GEARBOX, 316 STAINLESS STEEL MANIFOLD**

Engine, 3/4" and 1"

<table>
<thead>
<tr>
<th>PUMP MODEL</th>
<th>MAXIMUM FLOW</th>
<th>MAXIMUM PRESSURE</th>
<th>RPM</th>
<th>SHAFT</th>
<th>HP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPM</td>
<td>LPM</td>
<td>PSI</td>
<td>BAR</td>
<td></td>
</tr>
<tr>
<td>3CP1241G</td>
<td>2.8</td>
<td>10.6</td>
<td>5000</td>
<td>345</td>
<td>3600</td>
</tr>
<tr>
<td>3CP1221G</td>
<td>3.5</td>
<td>13.3</td>
<td>2000</td>
<td>152</td>
<td>3600</td>
</tr>
<tr>
<td>3CP1211G</td>
<td>4.0</td>
<td>15.2</td>
<td>2000</td>
<td>152</td>
<td>3600</td>
</tr>
<tr>
<td>5CP3160CSSG1</td>
<td>5.0</td>
<td>19.0</td>
<td>3000</td>
<td>207</td>
<td>3600</td>
</tr>
<tr>
<td>5CP3120CSSG1</td>
<td>5.8</td>
<td>21.9</td>
<td>3000</td>
<td>207</td>
<td>3600</td>
</tr>
<tr>
<td>5CP3140CSSG1</td>
<td>6.2</td>
<td>23.4</td>
<td>3000</td>
<td>207</td>
<td>3600</td>
</tr>
<tr>
<td>5CP6120CSSG1</td>
<td>7.2</td>
<td>27.2</td>
<td>1500</td>
<td>103</td>
<td>3600</td>
</tr>
<tr>
<td>5CP6180CSSG1</td>
<td>8.0</td>
<td>30.4</td>
<td>1500</td>
<td>103</td>
<td>3600</td>
</tr>
<tr>
<td>5CP6190G1</td>
<td>8.0</td>
<td>30.4</td>
<td>2500</td>
<td>172</td>
<td>3600</td>
</tr>
<tr>
<td>5CP6191G1</td>
<td>8.0</td>
<td>30.4</td>
<td>2500</td>
<td>172</td>
<td>3600</td>
</tr>
<tr>
<td>5CP6120CSSG1</td>
<td>10.0</td>
<td>38.0</td>
<td>2500</td>
<td>172</td>
<td>3600</td>
</tr>
<tr>
<td>5CP6160CSSG1</td>
<td>10.0</td>
<td>38.0</td>
<td>2500</td>
<td>172</td>
<td>3600</td>
</tr>
<tr>
<td>7CP6111CSSG1</td>
<td>12.0</td>
<td>45.4</td>
<td>1800</td>
<td>124</td>
<td>3600</td>
</tr>
</tbody>
</table>

Note: All 1" Gearboxes are also available in 1 1/8" size (G118).

*Consult engine manufacturer for actual torque available at required speed.
### Plunger Pumps

**DIRECT DRIVE, SOLID SHAFT, BRASS MANIFOLD**

Electric Motor–Bell Housing

<table>
<thead>
<tr>
<th>PUMP MODEL</th>
<th>MAXIMUM FLOW GPM</th>
<th>MAXIMUM FLOW LPM</th>
<th>MAXIMUM PRESSURE PSI</th>
<th>MAXIMUM PRESSURE BAR</th>
<th>RPM</th>
<th>SHAFT</th>
</tr>
</thead>
<tbody>
<tr>
<td>5CP4110CSS</td>
<td>2.2</td>
<td>8.4</td>
<td>4000</td>
<td>276</td>
<td>1750</td>
<td>20 mm</td>
</tr>
<tr>
<td>5CP1130</td>
<td>2.4</td>
<td>9.1</td>
<td>2200</td>
<td>138</td>
<td>1725</td>
<td>16.5 mm</td>
</tr>
<tr>
<td>5CP3105CSS</td>
<td>2.5</td>
<td>9.5</td>
<td>3500</td>
<td>241</td>
<td>1750</td>
<td>20 mm</td>
</tr>
<tr>
<td>5CP4112CSS</td>
<td>2.7</td>
<td>10.3</td>
<td>4000</td>
<td>276</td>
<td>1750</td>
<td>20 mm</td>
</tr>
<tr>
<td>740</td>
<td>2.9</td>
<td>11.0</td>
<td>5000</td>
<td>345</td>
<td>1750</td>
<td>24 mm</td>
</tr>
<tr>
<td>5CP4114CSS</td>
<td>3.2</td>
<td>12.1</td>
<td>4000</td>
<td>276</td>
<td>1750</td>
<td>24 mm</td>
</tr>
<tr>
<td>3CP1140</td>
<td>3.6</td>
<td>13.7</td>
<td>2200</td>
<td>152</td>
<td>1725</td>
<td>16.5 mm</td>
</tr>
<tr>
<td>5CP3100CSS</td>
<td>3.6</td>
<td>13.7</td>
<td>3500</td>
<td>241</td>
<td>1750</td>
<td>20 mm</td>
</tr>
<tr>
<td>760</td>
<td>3.6</td>
<td>13.6</td>
<td>5000</td>
<td>345</td>
<td>1750</td>
<td>24 mm</td>
</tr>
<tr>
<td>5CP4116CSS</td>
<td>3.8</td>
<td>14.4</td>
<td>4000</td>
<td>276</td>
<td>1750</td>
<td>20 mm</td>
</tr>
<tr>
<td>3CP2140WCS</td>
<td>4.0</td>
<td>15.2</td>
<td>2500</td>
<td>172</td>
<td>1725</td>
<td>20 mm</td>
</tr>
<tr>
<td>5CP1120</td>
<td>4.2</td>
<td>16.0</td>
<td>2200</td>
<td>152</td>
<td>1725</td>
<td>16.5 mm</td>
</tr>
<tr>
<td>5CP4118CSS</td>
<td>4.2</td>
<td>16.0</td>
<td>4000</td>
<td>276</td>
<td>1750</td>
<td>20 mm</td>
</tr>
<tr>
<td>5CP3160CSS</td>
<td>4.3</td>
<td>16.3</td>
<td>3500</td>
<td>241</td>
<td>1750</td>
<td>24 mm</td>
</tr>
<tr>
<td>5CP4120CSS</td>
<td>4.5</td>
<td>17.0</td>
<td>4000</td>
<td>276</td>
<td>1750</td>
<td>24 mm</td>
</tr>
<tr>
<td>60</td>
<td>4.7</td>
<td>17.9</td>
<td>5000</td>
<td>345</td>
<td>1750</td>
<td>24 mm</td>
</tr>
<tr>
<td>700</td>
<td>4.7</td>
<td>17.9</td>
<td>5000</td>
<td>345</td>
<td>1750</td>
<td>24 mm</td>
</tr>
<tr>
<td>5CP3120CSS</td>
<td>4.8</td>
<td>18.2</td>
<td>3000</td>
<td>207</td>
<td>1750</td>
<td>20 mm</td>
</tr>
<tr>
<td>5CP2150W</td>
<td>5.0</td>
<td>19.0</td>
<td>2000</td>
<td>138</td>
<td>1725</td>
<td>20 mm</td>
</tr>
<tr>
<td>5CP3100CSS</td>
<td>5.2</td>
<td>19.8</td>
<td>3000</td>
<td>207</td>
<td>1750</td>
<td>20 mm</td>
</tr>
<tr>
<td>5CP120</td>
<td>6.0</td>
<td>22.8</td>
<td>2500</td>
<td>172</td>
<td>1750</td>
<td>20 mm</td>
</tr>
<tr>
<td>5CP130CSS</td>
<td>6.0</td>
<td>22.8</td>
<td>3500</td>
<td>241</td>
<td>1750</td>
<td>20 mm</td>
</tr>
<tr>
<td>5CP140CSS</td>
<td>6.4</td>
<td>24.3</td>
<td>3000</td>
<td>207</td>
<td>1750</td>
<td>20 mm</td>
</tr>
<tr>
<td>5CP6120</td>
<td>7.4</td>
<td>28.1</td>
<td>1500</td>
<td>103</td>
<td>1725</td>
<td>20 mm</td>
</tr>
<tr>
<td>56</td>
<td>8.0</td>
<td>30.4</td>
<td>2500</td>
<td>172</td>
<td>1760</td>
<td>24 mm</td>
</tr>
<tr>
<td>56HS</td>
<td>8.0</td>
<td>30.4</td>
<td>3000</td>
<td>207</td>
<td>1760</td>
<td>24 mm</td>
</tr>
<tr>
<td>5CP6180CSS</td>
<td>8.2</td>
<td>31.0</td>
<td>1500</td>
<td>103</td>
<td>1750</td>
<td>20 mm</td>
</tr>
<tr>
<td>5CP6190</td>
<td>10.0</td>
<td>38.0</td>
<td>1200</td>
<td>83</td>
<td>1750</td>
<td>20 mm</td>
</tr>
<tr>
<td>7CP610DCS</td>
<td>10.5</td>
<td>39.9</td>
<td>2000</td>
<td>138</td>
<td>1750</td>
<td>24 mm</td>
</tr>
<tr>
<td>7CP6160CSS</td>
<td>10.6</td>
<td>40.1</td>
<td>2500</td>
<td>172</td>
<td>1750</td>
<td>24 mm</td>
</tr>
<tr>
<td>1730</td>
<td>15.8</td>
<td>59.8</td>
<td>1500</td>
<td>103</td>
<td>1750</td>
<td>30 mm</td>
</tr>
</tbody>
</table>

**DIRECT DRIVE, SOLID SHAFT, 316 STAINLESS STEEL MANIFOLD**

Electric Motor–Bell Housing

<table>
<thead>
<tr>
<th>PUMP MODEL</th>
<th>MAXIMUM FLOW GPM</th>
<th>MAXIMUM FLOW LPM</th>
<th>MAXIMUM PRESSURE PSI</th>
<th>MAXIMUM PRESSURE BAR</th>
<th>RPM</th>
<th>SHAFT</th>
</tr>
</thead>
<tbody>
<tr>
<td>3CP1231</td>
<td>2.3</td>
<td>8.7</td>
<td>2000</td>
<td>138</td>
<td>1725</td>
<td>16.5 mm</td>
</tr>
<tr>
<td>784</td>
<td>2.9</td>
<td>11.0</td>
<td>5000</td>
<td>345</td>
<td>1750</td>
<td>24 mm</td>
</tr>
<tr>
<td>3CP1241</td>
<td>3.6</td>
<td>13.7</td>
<td>2000</td>
<td>138</td>
<td>1725</td>
<td>16.5 mm</td>
</tr>
<tr>
<td>786</td>
<td>3.6</td>
<td>13.7</td>
<td>5000</td>
<td>345</td>
<td>1750</td>
<td>24 mm</td>
</tr>
<tr>
<td>5CPQ6241CS</td>
<td>4.0</td>
<td>15.2</td>
<td>2000</td>
<td>138</td>
<td>1725</td>
<td>20 mm</td>
</tr>
<tr>
<td>5CP221</td>
<td>4.2</td>
<td>16.0</td>
<td>2000</td>
<td>138</td>
<td>1725</td>
<td>16.5 mm</td>
</tr>
<tr>
<td>781</td>
<td>4.7</td>
<td>17.8</td>
<td>5000</td>
<td>345</td>
<td>1750</td>
<td>24 mm</td>
</tr>
<tr>
<td>3CP1221CS</td>
<td>5.0</td>
<td>19.0</td>
<td>1700</td>
<td>117</td>
<td>1750</td>
<td>20 mm</td>
</tr>
<tr>
<td>5CPQ6251</td>
<td>5.0</td>
<td>19.0</td>
<td>2000</td>
<td>138</td>
<td>1725</td>
<td>20 mm</td>
</tr>
<tr>
<td>5CPQ6281CSS</td>
<td>5.5</td>
<td>20.9</td>
<td>2000</td>
<td>138</td>
<td>1725</td>
<td>20 mm</td>
</tr>
<tr>
<td>5CPQ6271CSS</td>
<td>6.6</td>
<td>25.1</td>
<td>1800</td>
<td>124</td>
<td>1725</td>
<td>20 mm</td>
</tr>
<tr>
<td>5CPQ6221</td>
<td>7.4</td>
<td>28.0</td>
<td>1500</td>
<td>103</td>
<td>1725</td>
<td>20 mm</td>
</tr>
<tr>
<td>7CP6111CS</td>
<td>10.5</td>
<td>39.9</td>
<td>2000</td>
<td>138</td>
<td>1750</td>
<td>24 mm</td>
</tr>
</tbody>
</table>

**DIRECT DRIVE, SOLID SHAFT, NICKEL ALUMINUM BRONZE MANIFOLD**

Electric Motor–Bell Housing

<table>
<thead>
<tr>
<th>PUMP MODEL</th>
<th>MAXIMUM FLOW GPM</th>
<th>MAXIMUM FLOW LPM</th>
<th>MAXIMUM PRESSURE PSI</th>
<th>MAXIMUM PRESSURE BAR</th>
<th>RPM</th>
<th>SHAFT</th>
</tr>
</thead>
<tbody>
<tr>
<td>237</td>
<td>2.3</td>
<td>8.7</td>
<td>1500</td>
<td>103</td>
<td>1725</td>
<td>16.5 mm</td>
</tr>
<tr>
<td>247</td>
<td>3.6</td>
<td>13.7</td>
<td>1200</td>
<td>83</td>
<td>1725</td>
<td>16.5 mm</td>
</tr>
<tr>
<td>277</td>
<td>4.2</td>
<td>16.0</td>
<td>1000</td>
<td>69</td>
<td>1725</td>
<td>16.5 mm</td>
</tr>
<tr>
<td>347</td>
<td>4.0</td>
<td>15.2</td>
<td>1800</td>
<td>124</td>
<td>1725</td>
<td>20 mm</td>
</tr>
<tr>
<td>357</td>
<td>5.0</td>
<td>19.0</td>
<td>1500</td>
<td>103</td>
<td>1725</td>
<td>20 mm</td>
</tr>
</tbody>
</table>
# Plunger Pumps

## SOLID SHAFT, BRASS MANIFOLD

<table>
<thead>
<tr>
<th>PUMP MODEL</th>
<th>MAXIMUM FLOW</th>
<th>MAXIMUM PRESSURE</th>
<th>RPM</th>
<th>SHAFT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPM</td>
<td>LPM</td>
<td>PSI</td>
<td>BAR</td>
</tr>
<tr>
<td>SCP4110CSS</td>
<td>2.2</td>
<td>8.4</td>
<td>4000</td>
<td>276</td>
</tr>
<tr>
<td>3CP1130</td>
<td>2.4</td>
<td>9.1</td>
<td>2200</td>
<td>138</td>
</tr>
<tr>
<td>3CP3105CSS</td>
<td>2.5</td>
<td>9.5</td>
<td>3500</td>
<td>241</td>
</tr>
<tr>
<td>SCP4122CSS</td>
<td>2.7</td>
<td>10.3</td>
<td>4000</td>
<td>276</td>
</tr>
<tr>
<td>740</td>
<td>2.9</td>
<td>11.0</td>
<td>5000</td>
<td>345</td>
</tr>
<tr>
<td>1810</td>
<td>3.0</td>
<td>11.4</td>
<td>10000</td>
<td>689</td>
</tr>
<tr>
<td>SCP4114CSS</td>
<td>3.2</td>
<td>12.1</td>
<td>4000</td>
<td>276</td>
</tr>
<tr>
<td>3CP1140</td>
<td>3.6</td>
<td>13.7</td>
<td>2200</td>
<td>152</td>
</tr>
<tr>
<td>3CP3110CSS</td>
<td>3.6</td>
<td>13.7</td>
<td>3500</td>
<td>241</td>
</tr>
<tr>
<td>760</td>
<td>3.6</td>
<td>13.7</td>
<td>5000</td>
<td>345</td>
</tr>
<tr>
<td>SCP4116CSS</td>
<td>3.8</td>
<td>14.4</td>
<td>4000</td>
<td>276</td>
</tr>
<tr>
<td>310</td>
<td>4.0</td>
<td>15.2</td>
<td>2500</td>
<td>172</td>
</tr>
<tr>
<td>SCP2120W</td>
<td>4.0</td>
<td>15.2</td>
<td>2500</td>
<td>172</td>
</tr>
<tr>
<td>SCP2140WCS</td>
<td>4.0</td>
<td>15.2</td>
<td>2500</td>
<td>172</td>
</tr>
<tr>
<td>3CP1120</td>
<td>4.2</td>
<td>16.0</td>
<td>2200</td>
<td>152</td>
</tr>
<tr>
<td>SCP4118CSS</td>
<td>4.2</td>
<td>16.0</td>
<td>4000</td>
<td>276</td>
</tr>
<tr>
<td>3CP3160CSS</td>
<td>4.3</td>
<td>16.3</td>
<td>3500</td>
<td>241</td>
</tr>
<tr>
<td>SCP3120CSS</td>
<td>4.5</td>
<td>17.0</td>
<td>3500</td>
<td>241</td>
</tr>
<tr>
<td>57</td>
<td>4.5</td>
<td>17.0</td>
<td>4000</td>
<td>276</td>
</tr>
<tr>
<td>SCP4120CSS</td>
<td>4.5</td>
<td>17.0</td>
<td>4000</td>
<td>276</td>
</tr>
<tr>
<td>60</td>
<td>4.7</td>
<td>17.9</td>
<td>4000</td>
<td>276</td>
</tr>
<tr>
<td>700</td>
<td>4.7</td>
<td>17.9</td>
<td>5000</td>
<td>345</td>
</tr>
<tr>
<td>SCP3120CSS</td>
<td>4.8</td>
<td>18.2</td>
<td>3000</td>
<td>207</td>
</tr>
<tr>
<td>310</td>
<td>5.0</td>
<td>19.0</td>
<td>1500</td>
<td>103</td>
</tr>
<tr>
<td>SCP2150W</td>
<td>5.0</td>
<td>19.0</td>
<td>2000</td>
<td>138</td>
</tr>
<tr>
<td>530</td>
<td>5.0</td>
<td>19.0</td>
<td>2500</td>
<td>172</td>
</tr>
<tr>
<td>SCP5120</td>
<td>5.0</td>
<td>19.0</td>
<td>3000</td>
<td>207</td>
</tr>
<tr>
<td>SCP3150CSS</td>
<td>5.2</td>
<td>19.7</td>
<td>3000</td>
<td>207</td>
</tr>
<tr>
<td>56</td>
<td>5.5</td>
<td>20.9</td>
<td>3500</td>
<td>241</td>
</tr>
<tr>
<td>SCP5140CSS</td>
<td>5.5</td>
<td>20.9</td>
<td>3500</td>
<td>241</td>
</tr>
<tr>
<td>SCP5120</td>
<td>6.0</td>
<td>22.8</td>
<td>2500</td>
<td>172</td>
</tr>
<tr>
<td>SCP5135CSS</td>
<td>6.0</td>
<td>22.8</td>
<td>3500</td>
<td>241</td>
</tr>
<tr>
<td>1570</td>
<td>6.0</td>
<td>22.8</td>
<td>6000</td>
<td>414</td>
</tr>
<tr>
<td>SCP5140CSS</td>
<td>6.4</td>
<td>24.3</td>
<td>3000</td>
<td>207</td>
</tr>
<tr>
<td>SCP6180CSS</td>
<td>6.9</td>
<td>26.1</td>
<td>1500</td>
<td>103</td>
</tr>
<tr>
<td>650</td>
<td>7.0</td>
<td>26.6</td>
<td>3000</td>
<td>207</td>
</tr>
<tr>
<td>SCP6120</td>
<td>7.4</td>
<td>28.1</td>
<td>1500</td>
<td>103</td>
</tr>
<tr>
<td>SCP6120CS</td>
<td>7.4</td>
<td>28.1</td>
<td>1500</td>
<td>103</td>
</tr>
<tr>
<td>SCP6190</td>
<td>8.0</td>
<td>30.4</td>
<td>1450</td>
<td>100</td>
</tr>
<tr>
<td>56</td>
<td>8.0</td>
<td>30.4</td>
<td>2500</td>
<td>172</td>
</tr>
<tr>
<td>56HS</td>
<td>8.0</td>
<td>30.4</td>
<td>3000</td>
<td>207</td>
</tr>
<tr>
<td>SCP6180CSS</td>
<td>8.2</td>
<td>31.0</td>
<td>1500</td>
<td>103</td>
</tr>
<tr>
<td>1560</td>
<td>9.0</td>
<td>34.0</td>
<td>4000</td>
<td>276</td>
</tr>
<tr>
<td>SCP6190</td>
<td>10.0</td>
<td>38.0</td>
<td>1200</td>
<td>83</td>
</tr>
<tr>
<td>1050</td>
<td>10.0</td>
<td>38.0</td>
<td>2200</td>
<td>152</td>
</tr>
<tr>
<td>660</td>
<td>10.0</td>
<td>38.0</td>
<td>3000</td>
<td>207</td>
</tr>
<tr>
<td>3550</td>
<td>10.0</td>
<td>38.0</td>
<td>6000</td>
<td>414</td>
</tr>
<tr>
<td>6810*</td>
<td>10.0</td>
<td>38.0</td>
<td>10000</td>
<td>689</td>
</tr>
<tr>
<td>7CP6110CS</td>
<td>10.5</td>
<td>39.9</td>
<td>2000</td>
<td>138</td>
</tr>
<tr>
<td>7CP6160CS</td>
<td>10.6</td>
<td>40.1</td>
<td>2500</td>
<td>172</td>
</tr>
<tr>
<td>7CP6170</td>
<td>11.0</td>
<td>41.6</td>
<td>2000</td>
<td>138</td>
</tr>
<tr>
<td>7CP6170</td>
<td>12.0</td>
<td>45.4</td>
<td>1800</td>
<td>124</td>
</tr>
<tr>
<td>1580</td>
<td>12.0</td>
<td>45.4</td>
<td>3000</td>
<td>207</td>
</tr>
<tr>
<td>1050</td>
<td>12.3</td>
<td>46.5</td>
<td>1800</td>
<td>124</td>
</tr>
<tr>
<td>1530</td>
<td>15.6</td>
<td>59.3</td>
<td>1500</td>
<td>103</td>
</tr>
<tr>
<td>1730</td>
<td>15.8</td>
<td>59.8</td>
<td>1500</td>
<td>103</td>
</tr>
</tbody>
</table>

* 17–4SS Stainless Manifolds

For more information, contact us at (763) 780-5440 | info@catpumps.com | www.catpumps.com

Pumps & Accessories Catalog 2022
## Plunger Pumps

### SOLID SHAFT, BRASS MANIFOLD

<table>
<thead>
<tr>
<th>PUMP MODEL</th>
<th>MAXIMUM FLOW</th>
<th>MAXIMUM PRESSURE</th>
<th>RPM</th>
<th>SHAFT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPM</td>
<td>LPM</td>
<td>PSI</td>
<td>BAR</td>
</tr>
<tr>
<td>2560</td>
<td>16.0</td>
<td>60.5</td>
<td>3000</td>
<td>207</td>
</tr>
<tr>
<td>1540E</td>
<td>19.3</td>
<td>73.0</td>
<td>1200</td>
<td>83</td>
</tr>
<tr>
<td>2510</td>
<td>20.0</td>
<td>76.0</td>
<td>2000</td>
<td>138</td>
</tr>
<tr>
<td>2565</td>
<td>20.0</td>
<td>76.0</td>
<td>2500</td>
<td>172</td>
</tr>
<tr>
<td>3560</td>
<td>20.0</td>
<td>76.0</td>
<td>4000</td>
<td>276</td>
</tr>
<tr>
<td>2530</td>
<td>25.0</td>
<td>95.0</td>
<td>1200</td>
<td>83</td>
</tr>
<tr>
<td>3520</td>
<td>25.0</td>
<td>95.0</td>
<td>2000</td>
<td>138</td>
</tr>
<tr>
<td>3570</td>
<td>30.0</td>
<td>113.6</td>
<td>2500</td>
<td>172</td>
</tr>
<tr>
<td>3570S*</td>
<td>30.0</td>
<td>113.6</td>
<td>3000</td>
<td>207</td>
</tr>
<tr>
<td>3560S*</td>
<td>30.0</td>
<td>113.6</td>
<td>3000</td>
<td>207</td>
</tr>
<tr>
<td>3535</td>
<td>40.0</td>
<td>152.0</td>
<td>2000</td>
<td>138</td>
</tr>
<tr>
<td>6835</td>
<td>40.0</td>
<td>152.0</td>
<td>3000</td>
<td>207</td>
</tr>
<tr>
<td>3545</td>
<td>45.0</td>
<td>171.0</td>
<td>1000</td>
<td>69</td>
</tr>
<tr>
<td>3545S*</td>
<td>50.0</td>
<td>189.3</td>
<td>1500</td>
<td>103</td>
</tr>
<tr>
<td>67070</td>
<td>50.0</td>
<td>189.3</td>
<td>2000</td>
<td>138</td>
</tr>
<tr>
<td>6760</td>
<td>60.0</td>
<td>228.0</td>
<td>1200</td>
<td>83</td>
</tr>
<tr>
<td>67070S*</td>
<td>65.0</td>
<td>246.0</td>
<td>2000</td>
<td>138</td>
</tr>
<tr>
<td>6775</td>
<td>75.0</td>
<td>285.0</td>
<td>1200</td>
<td>83</td>
</tr>
</tbody>
</table>

*Intermittent duty cycle is defined as operating pump at stated flow and pressure for no more than 50% of time in any given hour.

### Selecting a Drive

A variety of different drive options are offered by Cat Pumps. Most systems are belt-driven by a pulley or clutch, but there are also direct-drive options such as direct coupled, gearbox or hollow shaft direct drive.

#### Commonly Used Formulas

\[
\text{Desired rpm} = \frac{\text{Desired gpm} \times \text{Rated rpm}}{\text{Rated gpm}}
\]

\[
\text{Motor Pulley*} = \frac{\text{Pump rpm} \times \text{Rated rpm}}{\text{Motor/Engine rpm}}
\]

*Pitch Diameter

### Selecting a Power Source

Positive displacement pumps can use a variety of different power sources, including electric motors, gas or diesel engines, hydraulic and pneumatic motors. Note: system power sources must be sized with adequate horsepower to handle the maximum system flow and pressure required.

#### Commonly Used Formulas

\[
\text{Electric Motor Horsepower (HP)*} = \frac{\text{gpm x psi}}{1460}
\]

\[
\text{Hydraulic Torque (ft. lbs.) Required} = 3.6 \times \frac{\text{gpm x psi}}{\text{rpm}}
\]

*Standard 85% Overall Efficiency
### SOLID SHAFT, 316 STAINLESS STEEL MANIFOLD

<table>
<thead>
<tr>
<th>PUMP MODEL</th>
<th>MAXIMUM FLOW</th>
<th>MAXIMUM PRESSURE</th>
<th>RPM</th>
<th>SHAFT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPM</td>
<td>LPM</td>
<td>PSI</td>
<td>BAR</td>
</tr>
<tr>
<td>3CP1231</td>
<td>2.3</td>
<td>8.7</td>
<td>2000</td>
<td>138</td>
</tr>
<tr>
<td>784</td>
<td>2.9</td>
<td>11.0</td>
<td>5000</td>
<td>345</td>
</tr>
<tr>
<td>3CP1241</td>
<td>3.6</td>
<td>13.7</td>
<td>2000</td>
<td>138</td>
</tr>
<tr>
<td>786</td>
<td>3.6</td>
<td>13.7</td>
<td>5000</td>
<td>345</td>
</tr>
<tr>
<td>341</td>
<td>4.0</td>
<td>15.2</td>
<td>1800</td>
<td>124</td>
</tr>
<tr>
<td>5CPQ6241CS</td>
<td>4.0</td>
<td>15.2</td>
<td>2000</td>
<td>138</td>
</tr>
<tr>
<td>311</td>
<td>4.0</td>
<td>15.2</td>
<td>2200</td>
<td>152</td>
</tr>
<tr>
<td>3CP1221</td>
<td>4.2</td>
<td>16.0</td>
<td>2000</td>
<td>138</td>
</tr>
<tr>
<td>781</td>
<td>4.7</td>
<td>17.9</td>
<td>5000</td>
<td>345</td>
</tr>
<tr>
<td>351</td>
<td>5.0</td>
<td>19.0</td>
<td>1500</td>
<td>103</td>
</tr>
<tr>
<td>3CP1211CS</td>
<td>5.0</td>
<td>19.0</td>
<td>1700</td>
<td>117</td>
</tr>
<tr>
<td>5CPQ6251</td>
<td>5.0</td>
<td>19.0</td>
<td>2000</td>
<td>138</td>
</tr>
<tr>
<td>5CPQ6221</td>
<td>6.0</td>
<td>22.8</td>
<td>2000</td>
<td>138</td>
</tr>
<tr>
<td>5CPQ6221</td>
<td>7.4</td>
<td>28.0</td>
<td>1500</td>
<td>103</td>
</tr>
<tr>
<td>1051</td>
<td>10.0</td>
<td>38.0</td>
<td>2200</td>
<td>152</td>
</tr>
<tr>
<td>3501</td>
<td>10.0</td>
<td>38.0</td>
<td>5000</td>
<td>345</td>
</tr>
<tr>
<td>7CP6111CS</td>
<td>10.5</td>
<td>39.9</td>
<td>2000</td>
<td>138</td>
</tr>
<tr>
<td>7CP6171CS</td>
<td>11.0</td>
<td>41.6</td>
<td>2000</td>
<td>138</td>
</tr>
<tr>
<td>7CP6171CS</td>
<td>12.0</td>
<td>45.0</td>
<td>1800</td>
<td>124</td>
</tr>
<tr>
<td>1051</td>
<td>12.3</td>
<td>46.5</td>
<td>1800</td>
<td>124</td>
</tr>
<tr>
<td>3511</td>
<td>14.0</td>
<td>53.2</td>
<td>3000</td>
<td>207</td>
</tr>
<tr>
<td>6811</td>
<td>15.0</td>
<td>57.0</td>
<td>5000</td>
<td>345</td>
</tr>
<tr>
<td>6801</td>
<td>15.0</td>
<td>57.0</td>
<td>7000</td>
<td>483</td>
</tr>
<tr>
<td>1531</td>
<td>15.6</td>
<td>59.0</td>
<td>1500</td>
<td>103</td>
</tr>
<tr>
<td>1541</td>
<td>19.3</td>
<td>73.0</td>
<td>1200</td>
<td>83</td>
</tr>
<tr>
<td>2511</td>
<td>20.0</td>
<td>76.0</td>
<td>1500</td>
<td>103</td>
</tr>
<tr>
<td>2531</td>
<td>25.0</td>
<td>95.0</td>
<td>1200</td>
<td>83</td>
</tr>
<tr>
<td>3521DHS</td>
<td>25.0</td>
<td>95.0</td>
<td>2000</td>
<td>138</td>
</tr>
<tr>
<td>6821</td>
<td>25.0</td>
<td>95.0</td>
<td>3000</td>
<td>207</td>
</tr>
<tr>
<td>3531D</td>
<td>36.0</td>
<td>136.2</td>
<td>1200</td>
<td>83</td>
</tr>
<tr>
<td>3531DHS*</td>
<td>40.0</td>
<td>152.0</td>
<td>2000</td>
<td>138</td>
</tr>
<tr>
<td>6831</td>
<td>40.0</td>
<td>152.0</td>
<td>2300</td>
<td>159</td>
</tr>
<tr>
<td>3541D</td>
<td>45.0</td>
<td>171.0</td>
<td>1000</td>
<td>69</td>
</tr>
<tr>
<td>6841</td>
<td>48.0</td>
<td>182.4</td>
<td>2000</td>
<td>138</td>
</tr>
<tr>
<td>3541DHS*</td>
<td>50.0</td>
<td>189.3</td>
<td>1500</td>
<td>103</td>
</tr>
<tr>
<td>6761</td>
<td>60.0</td>
<td>228.0</td>
<td>1200</td>
<td>83</td>
</tr>
</tbody>
</table>

*Intermittent duty cycle is defined as operating pump at stated flow and pressure for no more than 50% of time in any given hour.

### SOLID SHAFT, DUPLEX STAINLESS STEEL MANIFOLD

<table>
<thead>
<tr>
<th>PUMP MODEL</th>
<th>MAXIMUM FLOW</th>
<th>MAXIMUM PRESSURE</th>
<th>RPM</th>
<th>SHAFT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPM</td>
<td>LPM</td>
<td>PSI</td>
<td>BAR</td>
</tr>
<tr>
<td>1051D</td>
<td>10.0</td>
<td>38.0</td>
<td>2200</td>
<td>152</td>
</tr>
<tr>
<td>661D</td>
<td>10.0</td>
<td>38.0</td>
<td>3000</td>
<td>207</td>
</tr>
<tr>
<td>1051D</td>
<td>12.3</td>
<td>46.5</td>
<td>1800</td>
<td>124</td>
</tr>
<tr>
<td>6762</td>
<td>60.0</td>
<td>228.0</td>
<td>1200</td>
<td>83</td>
</tr>
<tr>
<td>67102</td>
<td>80.0</td>
<td>302.8</td>
<td>1200</td>
<td>83</td>
</tr>
<tr>
<td>67102</td>
<td>100.0</td>
<td>378.5</td>
<td>1000</td>
<td>69</td>
</tr>
<tr>
<td>157R060</td>
<td>100.0</td>
<td>380.0</td>
<td>2700</td>
<td>186</td>
</tr>
<tr>
<td>152R060</td>
<td>115.0</td>
<td>437.0</td>
<td>1200</td>
<td>83</td>
</tr>
<tr>
<td>152R061</td>
<td>115.0</td>
<td>437.0</td>
<td>2000</td>
<td>138</td>
</tr>
<tr>
<td>152R080</td>
<td>200.0</td>
<td>760.0</td>
<td>1200</td>
<td>83</td>
</tr>
<tr>
<td>152R081</td>
<td>200.0</td>
<td>760.0</td>
<td>1560</td>
<td>108</td>
</tr>
<tr>
<td>152R100</td>
<td>240.0</td>
<td>912.0</td>
<td>1000</td>
<td>69</td>
</tr>
</tbody>
</table>
### Plunger Pumps

#### SOLID SHAFT, NICKEL ALUMINUM BRONZE MANIFOLD

<table>
<thead>
<tr>
<th>PUMP MODEL</th>
<th>MAXIMUM FLOW</th>
<th>MAXIMUM PRESSURE</th>
<th>RPM</th>
<th>SHAFT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPM</td>
<td>LPM</td>
<td>PSI</td>
<td>BAR</td>
</tr>
<tr>
<td>237</td>
<td>2.3</td>
<td>8.7</td>
<td>1500</td>
<td>103</td>
</tr>
<tr>
<td>277</td>
<td>3.5</td>
<td>13.3</td>
<td>1500</td>
<td>103</td>
</tr>
<tr>
<td>247</td>
<td>3.6</td>
<td>13.7</td>
<td>1200</td>
<td>83</td>
</tr>
<tr>
<td>347</td>
<td>4.0</td>
<td>15.2</td>
<td>1800</td>
<td>124</td>
</tr>
<tr>
<td>317</td>
<td>4.0</td>
<td>15.2</td>
<td>2200</td>
<td>152</td>
</tr>
<tr>
<td>277</td>
<td>4.2</td>
<td>16.0</td>
<td>1000</td>
<td>69</td>
</tr>
<tr>
<td>357</td>
<td>5.0</td>
<td>19.0</td>
<td>1500</td>
<td>103</td>
</tr>
<tr>
<td>1057</td>
<td>10.0</td>
<td>38.0</td>
<td>2200</td>
<td>152</td>
</tr>
<tr>
<td>3507</td>
<td>10.0</td>
<td>38.0</td>
<td>5000</td>
<td>345</td>
</tr>
<tr>
<td>1057</td>
<td>12.3</td>
<td>46.5</td>
<td>1800</td>
<td>124</td>
</tr>
<tr>
<td>3517</td>
<td>14.0</td>
<td>53.2</td>
<td>3000</td>
<td>207</td>
</tr>
<tr>
<td>2537</td>
<td>25.0</td>
<td>95.0</td>
<td>1200</td>
<td>83</td>
</tr>
<tr>
<td>3527</td>
<td>25.0</td>
<td>95.0</td>
<td>2000</td>
<td>138</td>
</tr>
<tr>
<td>3537</td>
<td>36.0</td>
<td>136.2</td>
<td>1200</td>
<td>83</td>
</tr>
<tr>
<td>3537HS*</td>
<td>40.0</td>
<td>152.0</td>
<td>2000</td>
<td>138</td>
</tr>
<tr>
<td>3547</td>
<td>45.0</td>
<td>171.0</td>
<td>1000</td>
<td>69</td>
</tr>
<tr>
<td>6747</td>
<td>48.0</td>
<td>182.4</td>
<td>2000</td>
<td>138</td>
</tr>
<tr>
<td>3547HS*</td>
<td>50.0</td>
<td>189.3</td>
<td>1500</td>
<td>103</td>
</tr>
<tr>
<td>6767</td>
<td>60.0</td>
<td>228.0</td>
<td>1200</td>
<td>83</td>
</tr>
</tbody>
</table>

*Intermittent duty cycle is defined as operating pump at stated flow and pressure for no more than 50% of time in any given hour.

### Piston Pumps

#### PISTON PUMPS, SOLID SHAFT, BRASS MANIFOLD

<table>
<thead>
<tr>
<th>PUMP MODEL</th>
<th>MAXIMUM FLOW</th>
<th>MAXIMUM PRESSURE</th>
<th>RPM</th>
<th>SHAFT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPM</td>
<td>LPM</td>
<td>PSI</td>
<td>BAR</td>
</tr>
<tr>
<td>280</td>
<td>3.0</td>
<td>11.4</td>
<td>1000</td>
<td>69</td>
</tr>
<tr>
<td>290</td>
<td>3.5</td>
<td>13.3</td>
<td>1200</td>
<td>83</td>
</tr>
<tr>
<td>333</td>
<td>4.0</td>
<td>15.2</td>
<td>1200</td>
<td>83</td>
</tr>
<tr>
<td>430</td>
<td>5.0</td>
<td>19.0</td>
<td>1000</td>
<td>69</td>
</tr>
<tr>
<td>323</td>
<td>5.0</td>
<td>19.0</td>
<td>1500</td>
<td>103</td>
</tr>
<tr>
<td>623</td>
<td>6.0</td>
<td>22.8</td>
<td>1200</td>
<td>83</td>
</tr>
<tr>
<td>820</td>
<td>10.0</td>
<td>38.0</td>
<td>1000</td>
<td>69</td>
</tr>
<tr>
<td>390</td>
<td>12.0</td>
<td>45.4</td>
<td>600</td>
<td>41</td>
</tr>
<tr>
<td>1010</td>
<td>13.0</td>
<td>49.4</td>
<td>700</td>
<td>48</td>
</tr>
<tr>
<td>2520*</td>
<td>25.0</td>
<td>95.0</td>
<td>800</td>
<td>55</td>
</tr>
<tr>
<td>6040</td>
<td>40.0</td>
<td>152.0</td>
<td>1500</td>
<td>103</td>
</tr>
<tr>
<td>6020</td>
<td>60.0</td>
<td>228.0</td>
<td>1000</td>
<td>69</td>
</tr>
</tbody>
</table>

*Available as a model 2520C with flushed inlet manifold.

#### PISTON PUMPS, SOLID SHAFT, 316 STAINLESS STEEL MANIFOLD

<table>
<thead>
<tr>
<th>PUMP MODEL</th>
<th>MAXIMUM FLOW</th>
<th>MAXIMUM PRESSURE</th>
<th>RPM</th>
<th>SHAFT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPM</td>
<td>LPM</td>
<td>PSI</td>
<td>BAR</td>
</tr>
<tr>
<td>281</td>
<td>3.0</td>
<td>11.4</td>
<td>1000</td>
<td>69</td>
</tr>
<tr>
<td>291</td>
<td>3.5</td>
<td>13.3</td>
<td>1200</td>
<td>83</td>
</tr>
<tr>
<td>331</td>
<td>4.0</td>
<td>15.2</td>
<td>1200</td>
<td>83</td>
</tr>
<tr>
<td>431</td>
<td>5.0</td>
<td>19.0</td>
<td>1000</td>
<td>69</td>
</tr>
<tr>
<td>621</td>
<td>6.0</td>
<td>22.8</td>
<td>1200</td>
<td>83</td>
</tr>
<tr>
<td>821</td>
<td>10.0</td>
<td>38.0</td>
<td>1000</td>
<td>69</td>
</tr>
<tr>
<td>1011</td>
<td>13.0</td>
<td>49.4</td>
<td>700</td>
<td>48</td>
</tr>
<tr>
<td>6041</td>
<td>40.0</td>
<td>152.0</td>
<td>1500</td>
<td>103</td>
</tr>
<tr>
<td>6021</td>
<td>60.0</td>
<td>228.0</td>
<td>1000</td>
<td>69</td>
</tr>
</tbody>
</table>
### Flushed Manifold Pumps

#### Flushed Manifold Pumps, Solid Shaft

<table>
<thead>
<tr>
<th>PUMP MODEL</th>
<th>MAXIMUM FLOW</th>
<th>MAXIMUM PRESSURE</th>
<th>RPM</th>
<th>SHAFT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPM</td>
<td>LPM</td>
<td>PSI</td>
<td>BAR</td>
</tr>
<tr>
<td>1810K*</td>
<td>3.0</td>
<td>11.4</td>
<td>10000</td>
<td>689</td>
</tr>
<tr>
<td>1530C</td>
<td>15.6</td>
<td>59.0</td>
<td>1500</td>
<td>103</td>
</tr>
<tr>
<td>1540EC</td>
<td>19.3</td>
<td>73.0</td>
<td>1200</td>
<td>83</td>
</tr>
<tr>
<td>2520C</td>
<td>25.0</td>
<td>95.0</td>
<td>800</td>
<td>55</td>
</tr>
<tr>
<td>3520C</td>
<td>25.0</td>
<td>95.0</td>
<td>2000</td>
<td>138</td>
</tr>
<tr>
<td>3570C</td>
<td>30.0</td>
<td>114.0</td>
<td>2500</td>
<td>172</td>
</tr>
<tr>
<td>3535C</td>
<td>36.0</td>
<td>136.2</td>
<td>1200</td>
<td>83</td>
</tr>
</tbody>
</table>

Model numbers ending in "C" indicate flushed cast manifold and "K" indicate flushed block manifold.

*17 - 4SS Stainless Steel Manifolds

#### Flushed Manifold Pumps, Solid Shaft, 316 Stainless Steel Manifold

<table>
<thead>
<tr>
<th>PUMP MODEL</th>
<th>MAXIMUM FLOW</th>
<th>MAXIMUM PRESSURE</th>
<th>RPM</th>
<th>SHAFT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPM</td>
<td>LPM</td>
<td>PSI</td>
<td>BAR</td>
</tr>
<tr>
<td>341C</td>
<td>4.0</td>
<td>15.2</td>
<td>1800</td>
<td>124</td>
</tr>
<tr>
<td>311C</td>
<td>4.0</td>
<td>15.2</td>
<td>2200</td>
<td>152</td>
</tr>
<tr>
<td>781K</td>
<td>4.7</td>
<td>17.9</td>
<td>5000</td>
<td>345</td>
</tr>
<tr>
<td>351C</td>
<td>5.0</td>
<td>19.0</td>
<td>1500</td>
<td>103</td>
</tr>
<tr>
<td>1051C</td>
<td>10.0</td>
<td>38.0</td>
<td>2200</td>
<td>152</td>
</tr>
<tr>
<td>661C</td>
<td>10.0</td>
<td>38.0</td>
<td>3000</td>
<td>207</td>
</tr>
<tr>
<td>3501C</td>
<td>10.0</td>
<td>38.0</td>
<td>5000</td>
<td>345</td>
</tr>
<tr>
<td>7CP6171CCS</td>
<td>11.0</td>
<td>41.6</td>
<td>2000</td>
<td>138</td>
</tr>
<tr>
<td>7CP6171CCS</td>
<td>12.0</td>
<td>45.0</td>
<td>1800</td>
<td>124</td>
</tr>
<tr>
<td>1051C</td>
<td>12.3</td>
<td>46.5</td>
<td>1800</td>
<td>124</td>
</tr>
<tr>
<td>3511C</td>
<td>14.0</td>
<td>53.2</td>
<td>3000</td>
<td>207</td>
</tr>
<tr>
<td>6811K</td>
<td>15.0</td>
<td>57.0</td>
<td>5000</td>
<td>345</td>
</tr>
<tr>
<td>6801K</td>
<td>15.0</td>
<td>57.0</td>
<td>7000</td>
<td>483</td>
</tr>
<tr>
<td>1541C</td>
<td>19.3</td>
<td>73.0</td>
<td>1200</td>
<td>83</td>
</tr>
<tr>
<td>2531C</td>
<td>25.0</td>
<td>95.0</td>
<td>1200</td>
<td>83</td>
</tr>
<tr>
<td>3521C</td>
<td>25.0</td>
<td>95.0</td>
<td>2000</td>
<td>138</td>
</tr>
<tr>
<td>6821K</td>
<td>25.0</td>
<td>95.0</td>
<td>3000</td>
<td>207</td>
</tr>
<tr>
<td>3531C</td>
<td>36.0</td>
<td>136.2</td>
<td>1200</td>
<td>83</td>
</tr>
<tr>
<td>6831K</td>
<td>40.0</td>
<td>152.0</td>
<td>2300</td>
<td>159</td>
</tr>
<tr>
<td>3541C</td>
<td>45.0</td>
<td>171.0</td>
<td>1000</td>
<td>69</td>
</tr>
<tr>
<td>6841K</td>
<td>48.0</td>
<td>182.4</td>
<td>2000</td>
<td>138</td>
</tr>
<tr>
<td>6861K</td>
<td>60.0</td>
<td>228.0</td>
<td>1200</td>
<td>83</td>
</tr>
</tbody>
</table>

Model numbers ending in "C" indicate flushed cast manifold and "K" indicate flushed block manifold.

#### Flushed Manifold Pumps, Solid Shaft, Duplex Stainless Steel Manifold

<table>
<thead>
<tr>
<th>PUMP MODEL</th>
<th>MAXIMUM FLOW</th>
<th>MAXIMUM PRESSURE</th>
<th>RPM</th>
<th>SHAFT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPM</td>
<td>LPM</td>
<td>PSI</td>
<td>BAR</td>
</tr>
<tr>
<td>67102C</td>
<td>100.0</td>
<td>378.5</td>
<td>10000</td>
<td>69</td>
</tr>
<tr>
<td>152R060C</td>
<td>115.0</td>
<td>437.0</td>
<td>1200</td>
<td>83</td>
</tr>
<tr>
<td>152R080C</td>
<td>200.0</td>
<td>760.0</td>
<td>1200</td>
<td>83</td>
</tr>
<tr>
<td>152R100C</td>
<td>240.0</td>
<td>912.0</td>
<td>1000</td>
<td>69</td>
</tr>
</tbody>
</table>

Model numbers ending in "C" indicate flushed cast manifold and "K" indicate flushed block manifold.
High-Temperature Pumps

.3400 SERIES, HIGH-TEMPERATURE AND INTERMITTENT RUN DRY
The “.3400” Series pumps feature specially blended seals and V-packings, expanding pump operating performance to 190° F / 88° C. This modification also allows the pump to run intermittently dry without damaging the seals. Standard plunger pumps can be fitted with these specially blended seals. Ordering this configuration requires adding .3400 to pump base model. For example, a 310 pump fitted with high temperature seals will be 310.3400. Contact Cat Pumps for additional information.

Triethylene Glycol (TEG) Pumps, 240° F

### HIGH-TEMPERATURE/TEG PUMPS, SOLID SHAFT, BRASS MANIFOLD

<table>
<thead>
<tr>
<th>PUMP MODEL</th>
<th>MAXIMUM FLOW</th>
<th>MAXIMUM PRESSURE</th>
<th>RPM</th>
<th>SHAFT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPM</td>
<td>LPM</td>
<td>PSI</td>
<td>BAR</td>
</tr>
<tr>
<td>3CP1130.44101</td>
<td>2.4</td>
<td>9.1</td>
<td>2200</td>
<td>152</td>
</tr>
<tr>
<td>3CP1105.44101</td>
<td>2.5</td>
<td>9.5</td>
<td>3500</td>
<td>241</td>
</tr>
<tr>
<td>3CP1140.44101</td>
<td>3.6</td>
<td>13.7</td>
<td>2200</td>
<td>152</td>
</tr>
<tr>
<td>3CP2120.44101</td>
<td>4.0</td>
<td>15.2</td>
<td>2500</td>
<td>172</td>
</tr>
<tr>
<td>3CP2140.44101</td>
<td>4.0</td>
<td>15.2</td>
<td>2500</td>
<td>172</td>
</tr>
<tr>
<td>3CP1120.44101</td>
<td>4.2</td>
<td>16.0</td>
<td>2200</td>
<td>152</td>
</tr>
<tr>
<td>5CP3105.44101</td>
<td>5.0</td>
<td>19.0</td>
<td>2000</td>
<td>138</td>
</tr>
<tr>
<td>5CP6120.44101</td>
<td>7.4</td>
<td>28.0</td>
<td>1500</td>
<td>103</td>
</tr>
<tr>
<td>1050.44101</td>
<td>10.0</td>
<td>38.0</td>
<td>2200</td>
<td>152</td>
</tr>
<tr>
<td>1050.44101</td>
<td>12.3</td>
<td>46.5</td>
<td>1800</td>
<td>124</td>
</tr>
<tr>
<td>1530.44101</td>
<td>15.6</td>
<td>59.0</td>
<td>1500</td>
<td>103</td>
</tr>
<tr>
<td>1540E.44101</td>
<td>19.3</td>
<td>73.0</td>
<td>1200</td>
<td>83</td>
</tr>
<tr>
<td>2510.44101</td>
<td>20.0</td>
<td>76.0</td>
<td>2000</td>
<td>138</td>
</tr>
<tr>
<td>2530.44101</td>
<td>25.0</td>
<td>95.0</td>
<td>1200</td>
<td>83</td>
</tr>
<tr>
<td>3535.44101</td>
<td>36.0</td>
<td>136.0</td>
<td>1200</td>
<td>83</td>
</tr>
</tbody>
</table>

*Nickel Aluminum Bronze Manifold
Washout Resistant Pumps

### B SERIES, SOLID SHAFT, SPECIAL BRASS MANIFOLD, VEHICLE WASH

<table>
<thead>
<tr>
<th>PUMP MODEL</th>
<th>MAXIMUM FLOW (GPM)</th>
<th>MAXIMUM PRESSURE (PSI)</th>
<th>RPM</th>
<th>SHAFT</th>
</tr>
</thead>
<tbody>
<tr>
<td>340B</td>
<td>4.0</td>
<td>1800</td>
<td>1725</td>
<td>20 mm</td>
</tr>
<tr>
<td>310B</td>
<td>4.0</td>
<td>2200</td>
<td>950</td>
<td>20 mm</td>
</tr>
<tr>
<td>5CP2120B</td>
<td>4.0</td>
<td>2500</td>
<td>950</td>
<td>20 mm</td>
</tr>
<tr>
<td>5CP2140BCS</td>
<td>4.0</td>
<td>2500</td>
<td>950</td>
<td>20 mm</td>
</tr>
<tr>
<td>350B</td>
<td>5.0</td>
<td>2500</td>
<td>1725</td>
<td>20 mm</td>
</tr>
<tr>
<td>5CP2150B</td>
<td>5.0</td>
<td>2500</td>
<td>1725</td>
<td>20 mm</td>
</tr>
</tbody>
</table>

Cat Pumps liquid CO₂ series of pumps feature modifications to accommodate the unique properties of liquid CO₂. Specialty seals are used to handle low lubricity and low temperature that liquid CO₂ applications require. Pump manifolds are modified to allow higher inlet pressures and discharge pressures up to 7,000 psi (483 bar). Drive-end and manifold material combinations are available to cover a wide flow range of flow from 0.34 to 50 gpm (1.3 to 189.2 lpm).

Cat Pumps offers full technical and engineering support to properly select pumps for the specific application. Pumps are available in brass and 316 stainless steel. Cat Pumps has provided liquid CO₂ pumping solutions for over 25 years, working closely with research facilities, universities, equipment manufacturers and site locations to design and provide the best solutions. Please contact Cat Pumps for additional information.

**TECH TIP**

**Pump Rotation**

Forward rotation (towards the manifold) is recommended to allow optimum lubrication of the crosshead area. If your installation does not allow for forward rotation, reverse rotation is acceptable if the crankcase oil is above the red dot in the oil gauge. This indicates adequate lubrication.
ATEX Pumps

Under the ATEX Directive, equipment is designated by group, category and zone. Cat Pumps has been certified as ATEX 2, which also covers ATEX 3 requirements.

ATEX-certified high-pressure pumps will be specially labeled and supplied with a signed ATEX Declaration of Conformity. Pumps will be numbered with the “ATEX2” suffix added to the standard pump model number. Contact Cat Pumps for additional information.

The following pump series comply with the ATEX directive for Group 2, Category 2, and Zones 1 and 2. This Group 2 includes Zones G (1 & 2).

Pump Series

- 3CP* Plunger Pumps
- 3 Frame* Plunger Pumps
- 5CP* Plunger Pumps
- 5 Frame* Plunger Pumps
- 7CP* Plunger Pumps
- 7 Frame* Plunger Pumps
- 28 Frame Plunger Pumps
- 35 Frame Plunger Pumps
- 38 Frame Plunger Pumps
- 60 Frame Plunger Pumps
- 68 Frame Plunger Pumps

* Excludes models equipped with gearbox

1CX Series Compact Misting Pumps

MODEL NUMBER SELECTION CHART
Pump with Electric Motor, 1250 psi Maximum Pressure

<table>
<thead>
<tr>
<th>PUMP SERIES</th>
<th>FLOW (1750 RPM)</th>
<th>REGULATOR</th>
<th>ASSEMBLE OPTION</th>
<th>MOTOR OPTION</th>
<th>PULSE HOSE OPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1CX</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>013</td>
<td>.13 gpm</td>
<td>D</td>
<td>Pump and motor shipped together–not assembled</td>
<td>1 = 8180</td>
<td>Blank = No Pulse Hose</td>
</tr>
<tr>
<td>025</td>
<td>.25 gpm</td>
<td>D</td>
<td>Pump and motor shipped together–not assembled</td>
<td>2 = 8182</td>
<td></td>
</tr>
<tr>
<td>050</td>
<td>.50 gpm</td>
<td>A</td>
<td>Pump and motor assembled together</td>
<td>3 = 8183</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>P</td>
<td>Pulse Hose</td>
<td>5 = 8186</td>
<td></td>
</tr>
</tbody>
</table>

Example: 1CX050RA2P = .5 gpm, Regulator, Assembled, 8182 Motor, Pulse Hose Included

*Motor Options:
1. 8180—¾ hp, ODP, 115/230 V, 60 Hz, 1 ph, 1750 rpm, 12 inch leads
2. 8182—½ hp, ODP, 115/230 V, 60 Hz, 1 ph, 1750 rpm, 12 inch leads
3. 8183—½ hp, ODP, 115/230 V, 60 Hz, 1 ph, 1450 rpm, terminal box
4. 8186—½ hp, TEFC, 115/230 V, 60 Hz, 1 ph, 1750 rpm, terminal box

* HP Calculation (1CX Series only): GPM x PSI ÷ 1060

NOTE: Without pulse hose amp draw will increase as much as 2 amps depending upon pump model and discharge pressure.
## 1XP Series Portable Extractor Pumps

### 1XP Pump with AC Induction Motor
- Long service life
- Dual-frequency for world-wide use
- Constant torque

#### AC Induction Motor
**60 Hz, 120V (1750 rpm)**

<table>
<thead>
<tr>
<th>GPM</th>
<th>MAX PSI</th>
<th>PUMP ASSEMBLY</th>
<th>SFA</th>
<th>HP</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5</td>
<td>600</td>
<td>1XP050.031</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.75</td>
<td>500</td>
<td>1XP075.031</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.85</td>
<td>500</td>
<td>1XP085.031</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>450</td>
<td>1XP100.031</td>
<td>4.0</td>
<td>1/3</td>
</tr>
<tr>
<td>1.25</td>
<td>400</td>
<td>1XP125.031</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.5</td>
<td>325</td>
<td>1XP150.031</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>250</td>
<td>1XP200.031</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### AC Induction Motor
**50 Hz, 240V (1450 rpm)**

<table>
<thead>
<tr>
<th>GPM</th>
<th>MAX PSI</th>
<th>PUMP ASSEMBLY</th>
<th>SFA</th>
<th>HP</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.40</td>
<td>600</td>
<td>1XP050.031</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.60</td>
<td>500</td>
<td>1XP075.031</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.70</td>
<td>500</td>
<td>1XP085.031</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.80</td>
<td>450</td>
<td>1XP100.031</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>400</td>
<td>1XP125.031</td>
<td>2.1</td>
<td>1/3</td>
</tr>
<tr>
<td>1.2</td>
<td>325</td>
<td>1XP150.031</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.70</td>
<td>250</td>
<td>1XP200.031</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.30</td>
<td>1000</td>
<td>1XP050.051</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.60</td>
<td>1000</td>
<td>1XP075.051</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.70</td>
<td>1000</td>
<td>1XP085.051</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.75</td>
<td>800</td>
<td>1XP100.051</td>
<td>3.8</td>
<td>1/3</td>
</tr>
<tr>
<td>1</td>
<td>800</td>
<td>1XP125.051</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.2</td>
<td>600</td>
<td>1XP150.051</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.70</td>
<td>450</td>
<td>1XP200.051</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.75</td>
<td>1000</td>
<td>1XP100.071</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.90</td>
<td>1000</td>
<td>1XP125.071</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.20</td>
<td>800</td>
<td>1XP150.071</td>
<td>4.6</td>
<td>1/4</td>
</tr>
<tr>
<td>1.50</td>
<td>700</td>
<td>1XP180.071</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.70</td>
<td>550</td>
<td>1XP200.071</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.20</td>
<td>1000</td>
<td>1XP150.101</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.40</td>
<td>800</td>
<td>1XP180.101</td>
<td>6.3</td>
<td>1</td>
</tr>
<tr>
<td>1.70</td>
<td>750</td>
<td>1XP200.101</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 1XP Pump with DC Permanent Magnet Motor
- Low amp draw
- Compact
- Lighter weight

#### DC Permanent Magnet
**120 Volt – ½ HP – ODP and TEFC Enclosures**

<table>
<thead>
<tr>
<th>GPM</th>
<th>MAX PSI</th>
<th>AMPS (AT MAX PSI)</th>
<th>PUMP ASSEMBLY ODP MOTOR</th>
<th>PUMP ASSEMBLY TEF C MOTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5</td>
<td>600</td>
<td>4.0</td>
<td>1XP050.03DC</td>
<td>1XP050.03DCT</td>
</tr>
<tr>
<td>0.75</td>
<td>500</td>
<td>4.0</td>
<td>1XP075.03DC</td>
<td>1XP075.03DCT</td>
</tr>
<tr>
<td>0.85</td>
<td>400</td>
<td>4.0</td>
<td>1XP085.03DC</td>
<td>1XP085.03DCT</td>
</tr>
<tr>
<td>1</td>
<td>350</td>
<td>4.0</td>
<td>1XP100.03DC</td>
<td>1XP100.03DCT</td>
</tr>
<tr>
<td>1.25</td>
<td>300</td>
<td>4.0</td>
<td>1XP125.03DC</td>
<td>1XP125.03DCT</td>
</tr>
<tr>
<td>1.5</td>
<td>250</td>
<td>4.0</td>
<td>1XP150.03DC</td>
<td>1XP150.03DCT</td>
</tr>
<tr>
<td>2.3</td>
<td>150</td>
<td>4.0</td>
<td>1XP200.03DC</td>
<td>1XP200.03DCT</td>
</tr>
</tbody>
</table>

#### DC Permanent Magnet
**240 Volt – ½ HP ODP**

<table>
<thead>
<tr>
<th>GPM</th>
<th>MAX PSI</th>
<th>AMPS (AT MAX PSI)</th>
<th>PUMP ASSEMBLY ODP MOTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5</td>
<td>600</td>
<td>2.0</td>
<td>1XP050.03DC2</td>
</tr>
<tr>
<td>0.75</td>
<td>500</td>
<td>2.0</td>
<td>1XP075.03DC2</td>
</tr>
<tr>
<td>0.85</td>
<td>400</td>
<td>2.0</td>
<td>1XP085.03DC2</td>
</tr>
<tr>
<td>1</td>
<td>350</td>
<td>2.0</td>
<td>1XP100.03DC2</td>
</tr>
<tr>
<td>1.25</td>
<td>300</td>
<td>2.0</td>
<td>1XP125.03DC2</td>
</tr>
<tr>
<td>1.5</td>
<td>250</td>
<td>2.0</td>
<td>1XP150.03DC2</td>
</tr>
<tr>
<td>2.3</td>
<td>150</td>
<td>2.0</td>
<td>1XP200.03DC2</td>
</tr>
</tbody>
</table>

For more information, contact us at (763) 780-5440 | info@catpumps.com | www.catpumps.com
## 1K SERIES–SUBMERSIBLE SUMP PUMPS
Stainless steel submersible sump pumps offer solutions to pumping semi-dirty water or fresh water with suspended solids up to ¾”.

<table>
<thead>
<tr>
<th>Flow Range</th>
<th>Up to 88 gpm</th>
<th>Operation</th>
<th>Manual or Automatic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Range</td>
<td>Up to 24 psi</td>
<td>Maximum Temperature</td>
<td>Continuous 122° F</td>
</tr>
<tr>
<td>RPM</td>
<td>3450 rpm</td>
<td></td>
<td>Intermittent 140° F</td>
</tr>
<tr>
<td>Discharge Fitting</td>
<td>1 ¼”, 1 ½” NPT(F)</td>
<td>Maximum Solids Diameter</td>
<td>¾”</td>
</tr>
<tr>
<td>Horsepower</td>
<td>1/3, ½, ¾, 1, 1 ½ HP</td>
<td>Material</td>
<td>304 Stainless Steel</td>
</tr>
</tbody>
</table>

## 2K SERIES–SUBMERSIBLE PUMPS
Stainless steel submersible pumps offer reliable pumping of freshwater or industrial waste water with suspended solids up to 2”.

<table>
<thead>
<tr>
<th>Flow Range</th>
<th>Up to 180 gpm</th>
<th>Operation</th>
<th>Manual or Automatic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Range</td>
<td>Up to 19.5 psi</td>
<td>Maximum Temperature</td>
<td>Continuous 104° F</td>
</tr>
<tr>
<td>RPM</td>
<td>3450 rpm</td>
<td></td>
<td>Intermittent 140° F</td>
</tr>
<tr>
<td>Discharge Fitting</td>
<td>2” NPT(F)</td>
<td>Maximum Solids Diameter</td>
<td>2”</td>
</tr>
<tr>
<td>Horsepower</td>
<td>½, 1, 1 ½, 2 HP</td>
<td>Material</td>
<td>304 Stainless Steel</td>
</tr>
</tbody>
</table>

## 3K SERIES–END-SUCTION CENTRIFUGAL PUMPS, SINGLE STAGE
Stainless steel end-suction centrifugal pumps offer dependable performance and flexibility in moving high-volume liquids at low pressure. Single stage sold as either pump kit or motorized unit.

<table>
<thead>
<tr>
<th>Flow Range</th>
<th>Up to 90 gpm</th>
<th>Discharge Fitting</th>
<th>1” NPT(F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Range</td>
<td>Up to 63 psi</td>
<td>Shaft Seal</td>
<td>Mech Type 21</td>
</tr>
<tr>
<td>Minimum Inlet Pressure to Prime</td>
<td>Flooded</td>
<td>Horsepower</td>
<td>1/4, 1/2, 1, 1 ½, 2, 3 HP</td>
</tr>
<tr>
<td>RPM</td>
<td>1725 or 3450 rpm</td>
<td>Maximum Temperature</td>
<td>160° F</td>
</tr>
<tr>
<td>Inlet Fitting</td>
<td>1 ¼”, 1 ½” NPT(F)</td>
<td>Material</td>
<td>304 Stainless Steel</td>
</tr>
</tbody>
</table>

## 3K SERIES–END-SUCTION CENTRIFUGAL PUMPS, TWO STAGE (METRIC FRAME)
Stainless steel end-suction centrifugal pumps offer dependable performance and flexibility in moving high-volume liquids at low pressure. Sold as motorized unit only.

<table>
<thead>
<tr>
<th>Flow Range</th>
<th>Up to 66 gpm</th>
<th>Discharge Fitting</th>
<th>1” NPT(F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Range</td>
<td>Up to 106 psi</td>
<td>Shaft Seal</td>
<td>Mech Type 21</td>
</tr>
<tr>
<td>Minimum Inlet Pressure to Prime</td>
<td>Flooded</td>
<td>Horsepower</td>
<td>2, 3, 5 (IP 55 TEFC)</td>
</tr>
<tr>
<td>RPM</td>
<td>3450 RPM</td>
<td>Maximum Temperature</td>
<td>140° F</td>
</tr>
<tr>
<td>Inlet Fitting</td>
<td>1 ¼”, 1 ½” NPT(F)</td>
<td>Material</td>
<td>304 Stainless Steel</td>
</tr>
</tbody>
</table>

## 3K SERIES–END-SUCTION CENTRIFUGAL PUMPS, TWO STAGE (NEMA FRAME)
Stainless steel end-suction centrifugal pumps offer dependable performance and flexibility in moving high-volume liquids at low pressure. Sold as either pump kit or motorized unit.

<table>
<thead>
<tr>
<th>Flow Range</th>
<th>Up to 66 gpm</th>
<th>Discharge Fitting</th>
<th>1” NPT(F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Range</td>
<td>Up to 106 psi</td>
<td>Shaft Seal</td>
<td>Mech Type 21</td>
</tr>
<tr>
<td>Minimum Inlet Pressure to Prime</td>
<td>Flooded</td>
<td>Horsepower</td>
<td>2, 3, 5</td>
</tr>
<tr>
<td>RPM</td>
<td>3450 RPM</td>
<td>Maximum Temperature</td>
<td>140° F</td>
</tr>
<tr>
<td>Inlet Fitting</td>
<td>1 ¼”, 1 ½” NPT(F)</td>
<td>Material</td>
<td>304 Stainless Steel</td>
</tr>
</tbody>
</table>
## Centrifugal Pumps

### 4K SERIES—END-SUCTION CENTRIFUGAL PUMPS, SINGLE STAGE
Sold as pump kit or motorized unit.

<table>
<thead>
<tr>
<th>Flow Range</th>
<th>Up to 380 gpm</th>
<th>Discharge Fitting Flange</th>
<th>ANSI 150 lb. – 1¼&quot;, 1½&quot;, 2&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Range</td>
<td>286 ft. Head</td>
<td>Shaft Seal</td>
<td>Mech Type 21</td>
</tr>
<tr>
<td>Minimum Inlet Pressure to Prime</td>
<td>Flooded</td>
<td>Horsepower</td>
<td>1, 1 ½, 2, 3, 5, 7 ½, 10, 15 HP</td>
</tr>
<tr>
<td>RPM</td>
<td>1725 or 3450 rpm</td>
<td>Maximum Temperature</td>
<td>160° F</td>
</tr>
<tr>
<td>Inlet Fitting Flange</td>
<td>ANSI 150 lb. – 2&quot;, 2 ½&quot;, 3&quot;</td>
<td>Material</td>
<td>304 Stainless Steel</td>
</tr>
</tbody>
</table>

### 5K SERIES—SELF PRIMING CENTRIFUGAL PUMPS
Sold as pump kit or motorized unit.

<table>
<thead>
<tr>
<th>Flow Range</th>
<th>Up to 18.5 gpm</th>
<th>Discharge Fitting</th>
<th>1” NPT(F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Range</td>
<td>190 ft. Head</td>
<td>Shaft Seal</td>
<td>Mech Type 21</td>
</tr>
<tr>
<td>Maximum Suction Lift</td>
<td>25 Feet</td>
<td>Horsepower</td>
<td>1 ½, 2 HP</td>
</tr>
<tr>
<td>RPM</td>
<td>3450 rpm</td>
<td>Maximum Temperature</td>
<td>113° F</td>
</tr>
<tr>
<td>Inlet Fitting</td>
<td>1 ¼” NPT(F)</td>
<td>Material</td>
<td>304 Stainless Steel</td>
</tr>
</tbody>
</table>

### 6K SERIES—OPEN IMPELLER END-SUCTION CENTRIFUGAL PUMPS
Stainless steel open impeller centrifugal pumps handles suspended solids in liquid and dirty water, and handles solids up to ¾” spherical. Sold as motorized unit only.

<table>
<thead>
<tr>
<th>Flow Range</th>
<th>Up to 250 gpm</th>
<th>Discharge Fitting</th>
<th>2” NPT(F) (with external hose barb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Range</td>
<td>65 ft. Head</td>
<td>Shaft Seal</td>
<td>Mech Type 21</td>
</tr>
<tr>
<td>Minimum Inlet Pressure to Prime</td>
<td>Flooded</td>
<td>Horsepower</td>
<td>1 ½, 2, 3</td>
</tr>
<tr>
<td>RPM</td>
<td>3450 RPM</td>
<td>Maximum Temperature</td>
<td>194° F</td>
</tr>
<tr>
<td>Inlet Fitting</td>
<td>2&quot;, 2 ½” NPT(F)</td>
<td>Material</td>
<td>304 Stainless Steel</td>
</tr>
</tbody>
</table>

### 8K SERIES—VERTICAL MULTIPLE STAGE CENTRIFUGAL PUMPS
Stainless steel vertical multiple stage pumps designed for high volume and high ft. head clean or hot water applications. Sold as a bare pump or motorized unit (w/NEMA motor sizes).

<table>
<thead>
<tr>
<th>Flow Range</th>
<th>Up to 390 gpm</th>
<th>Discharge Fitting</th>
<th>1 ¼” to 4” ANSI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Range</td>
<td>930 ft. Head</td>
<td>Shaft Seal</td>
<td>Mechanical - Silicon / Carbide / Carbon / FPM</td>
</tr>
<tr>
<td>Minimum Inlet Pressure to Prime</td>
<td>Flooded</td>
<td>Horsepower Range</td>
<td>½ to 50 HP</td>
</tr>
<tr>
<td>RPM</td>
<td>3450 RPM</td>
<td>Temperature Range</td>
<td>−22° F to 248° F</td>
</tr>
<tr>
<td>Inlet Fitting</td>
<td>1 ¼” to 4” ANSI</td>
<td>Material</td>
<td>304 or 316 Stainless Steel</td>
</tr>
</tbody>
</table>
Custom Pumping Systems
YOU DEFINE. WE DESIGN AND DELIVER.

Custom-Engineered to Meet Your Application Demands

Cat Pumps is an industry leader in providing customers with quality custom-engineered pumping systems to meet a wide range of application needs. By selecting a Cat Pumps pumping system, customers eliminate the hassle and expense of designing, multiple source buying, fabricating and testing. Our knowledgeable and helpful technical sales team assists with proper component selection as well as installation, operation and maintenance support.

All systems are designed, built and pressure tested to verify performance. To begin the quoting process, contact us at (763) 780-5440 or submit the custom system quote form at catpumps.com.

With thousands of installations running around the world, Cat Pumps is the supplier of choice for custom pumping systems.

Call or go online to start your quote today.
Custom Pumping Systems

System Configuration

With extensive experience building thousands of systems, Cat Pumps can help determine the best configuration for any application.

✔ Base
System design starts with choosing the base that best fits the application. Numerous base configurations are available to meet space, portability, sound and material demands.

- Standard  •  Vertically Stacked  •  Portable  •  Enclosed  •  Multiple Pump

✔ Power Source
A qualified technical staff with extensive experience can assist in recommending the correct product for any power source available.

- Electric  •  Gas  •  Diesel  •  Hydraulic  •  Pneumatic

✔ Drive Package
A wide variety of drive packages are available to complement any power source of choice.

- Belt  •  Direct Drive  •  Gearbox  •  Flex Coupling/Bell Housing  •  Clutch

✔ Accessories
Choose from hundreds of high-quality genuine Cat Pumps accessories for optimum system performance and life.

- Regulator  •  Unloader  •  Relief / Pop-off Valve  •  Pressure Gauge
- Pulsation Dampener  •  Inlet Stabilizer  •  Inlet Filter / Strainer  •  Guns  •  Oil

Cat Pumps Advanced Control Options

Ask about the wide variety of advanced control options designed to provide maximum system performance as well as maximum system protection. Options include:

- Variable Frequency Drives (VFD)
- PID Loop (varies speed of pump to maintain system pressure)
- Multiple Pump Systems
- Low-Pressure Seal Monitors
- Auto Shutdowns (Temperature and Low Inlet Pressure)

Other control options are available upon request.
Demand Genuine Cat Pumps Accessories

Cat Pumps offers a wide range of high quality accessories adhering to the same exacting standards as our industry-leading pumps. Every accessory is performance tested and designed to match each pump’s operating specifications. By demanding genuine Cat Pumps products, you receive the best value and lowest cost of ownership over the life of the system.

For maximum system protection, Cat Pumps recommends the use of a primary regulating device, secondary pressure relief device, and discharge pressure gauge. In addition to these system components, this catalog includes hundreds of other genuine Cat Pumps accessories. Improve system performance and protect your pumping system investment with the brand you can trust — Cat Pumps.

Maximum System Performance

Cat Pumps offers a wide range of high quality accessories adhering to the same exacting standards as our industry-leading pumps. Every accessory is performance tested and designed to match each pump’s operating specifications. By demanding genuine Cat Pumps products, you receive the best value and lowest cost of ownership over the life of the system. Protect your pumping system investment with the brand you can trust — Cat Pumps.
**Typical Installation**

1. Unloader
2. Regulator
3. Pop-Off Valve
4. Relief Valve
5. Pressure Gauge
6. Pulsation Dampener*
7. Inlet Filter
8. Inlet Pressure Regulator
9. Inlet Stabilizer
10. Thermal Valve
11. Oil Gauge/Drain Kit
12. Easy Start Valve
13. Throttle Controller
14. LPS Monitor
15. Bypass Hose
16. Shaft Protector
17. Oil Cap Protector
18. Rails

NOTE: These illustrations show the basic elements for a typical installation of a high-pressure piston or plunger pump. Not all components shown are required for all applications or systems. Proper system installation, routine lubrication, monitoring and maintenance of components are basic guarantees of optimum pump performance. Cat Pumps does not assume any liability or responsibility for the design or operation of a customer's high-pressure system.

*Preferred mounting of the pulsation dampener is directly on the discharge manifold of the pump. Systems using a pressure unloader require the pulsation dampener installed down stream when the bypass is returned to the inlet of the pump and an inlet pressure regulator or check valve is used.
Discharge Accessories

Primary Pressure Control

CPC Pressure Regulators

- Cat Pumps manufactured product.
- Typically used for multiple pump, nozzle and gun applications.
- Conical design lowers minimum required bypass flow and eliminates cavitation effects, extending performance life.

STEEL NICKEL PLATED MODELS, FLOW THROUGH
Piston and Seat are 316 Stainless Steel

<table>
<thead>
<tr>
<th>MODEL</th>
<th>FLOW RANGE</th>
<th>PRESSURE RANGE</th>
<th>PORTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPM</td>
<td>LPM</td>
<td>PSI</td>
</tr>
<tr>
<td>7001</td>
<td>0.5–5</td>
<td>1.9–19</td>
<td>100–1000</td>
</tr>
<tr>
<td>7002</td>
<td>0.5–5</td>
<td>1.9–19</td>
<td>500–2000</td>
</tr>
<tr>
<td>7003</td>
<td>0.5–5</td>
<td>1.9–19</td>
<td>1500–3000</td>
</tr>
<tr>
<td>7011</td>
<td>1.0–10</td>
<td>3.8–38</td>
<td>100–1000</td>
</tr>
<tr>
<td>7012</td>
<td>1.0–10</td>
<td>3.8–38</td>
<td>500–2000</td>
</tr>
<tr>
<td>7013</td>
<td>1.0–10</td>
<td>3.8–38</td>
<td>1500–3000</td>
</tr>
<tr>
<td>7014</td>
<td>1.0–10</td>
<td>3.8–38</td>
<td>2000–4000</td>
</tr>
<tr>
<td>7021</td>
<td>2.5–25</td>
<td>9.5–95</td>
<td>100–1000</td>
</tr>
<tr>
<td>7022</td>
<td>2.5–25</td>
<td>9.5–95</td>
<td>500–2000</td>
</tr>
<tr>
<td>7023</td>
<td>2.5–25</td>
<td>9.5–95</td>
<td>1500–3000</td>
</tr>
<tr>
<td>7024</td>
<td>2.5–25</td>
<td>9.5–95</td>
<td>2000–4000</td>
</tr>
<tr>
<td>7031</td>
<td>3.5–35</td>
<td>13.2–132</td>
<td>250–1000</td>
</tr>
<tr>
<td>7032</td>
<td>3.5–35</td>
<td>13.2–132</td>
<td>1000–2000</td>
</tr>
<tr>
<td>7033</td>
<td>3.5–35</td>
<td>13.2–132</td>
<td>1500–3000</td>
</tr>
</tbody>
</table>

316 STAINLESS STEEL MODELS, FLOW THROUGH
Piston and Seat are 316 Stainless Steel

<table>
<thead>
<tr>
<th>MODEL</th>
<th>FLOW RANGE</th>
<th>PRESSURE RANGE</th>
<th>PORTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPM</td>
<td>LPM</td>
<td>PSI</td>
</tr>
<tr>
<td>7001.100</td>
<td>0.5–5</td>
<td>1.9–19</td>
<td>100–1000</td>
</tr>
<tr>
<td>7002.100</td>
<td>0.5–5</td>
<td>1.9–19</td>
<td>500–2000</td>
</tr>
<tr>
<td>7003.100</td>
<td>0.5–5</td>
<td>1.9–19</td>
<td>1500–3000</td>
</tr>
<tr>
<td>7011.100</td>
<td>1.0–10</td>
<td>3.8–38</td>
<td>100–1000</td>
</tr>
<tr>
<td>7012.100</td>
<td>1.0–10</td>
<td>3.8–38</td>
<td>500–2000</td>
</tr>
<tr>
<td>7013.100</td>
<td>1.0–10</td>
<td>3.8–38</td>
<td>1500–3000</td>
</tr>
<tr>
<td>7014.100</td>
<td>1.0–10</td>
<td>3.8–38</td>
<td>2000–4000</td>
</tr>
<tr>
<td>7720</td>
<td>0.5–10</td>
<td>1.9–19</td>
<td>2000–10000</td>
</tr>
<tr>
<td>7021.100</td>
<td>2.5–25</td>
<td>9.5–95</td>
<td>100–1000</td>
</tr>
<tr>
<td>7022.100</td>
<td>2.5–25</td>
<td>9.5–95</td>
<td>500–2000</td>
</tr>
<tr>
<td>7023.100</td>
<td>2.5–25</td>
<td>9.5–95</td>
<td>1500–3000</td>
</tr>
<tr>
<td>7024.100</td>
<td>2.5–25</td>
<td>9.5–95</td>
<td>2000–4000</td>
</tr>
<tr>
<td>7031.100</td>
<td>3.5–35</td>
<td>13.2–132</td>
<td>250–1000</td>
</tr>
<tr>
<td>7032.100</td>
<td>3.5–35</td>
<td>13.2–132</td>
<td>1000–2000</td>
</tr>
<tr>
<td>7033.100</td>
<td>3.5–35</td>
<td>13.2–132</td>
<td>1500–3000</td>
</tr>
<tr>
<td>7350</td>
<td>1.0–12</td>
<td>3.8–45</td>
<td>400–1500</td>
</tr>
<tr>
<td>7366</td>
<td>1.0–12</td>
<td>3.8–45</td>
<td>3000–6000</td>
</tr>
<tr>
<td>7361</td>
<td>10–60</td>
<td>38–228</td>
<td>400–1000</td>
</tr>
<tr>
<td>7363</td>
<td>10–60</td>
<td>38–228</td>
<td>600–1800</td>
</tr>
</tbody>
</table>

316 STAINLESS STEEL MODELS, TEE MOUNT

<table>
<thead>
<tr>
<th>MODEL</th>
<th>FLOW RANGE</th>
<th>PRESSURE RANGE</th>
<th>PORTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPM</td>
<td>LPM</td>
<td>PSI</td>
</tr>
<tr>
<td>7350</td>
<td>1.0–12</td>
<td>3.8–45</td>
<td>400–1500</td>
</tr>
<tr>
<td>7366</td>
<td>1.0–12</td>
<td>3.8–45</td>
<td>3000–6000</td>
</tr>
<tr>
<td>7361</td>
<td>10–60</td>
<td>38–228</td>
<td>400–1000</td>
</tr>
<tr>
<td>7363</td>
<td>10–60</td>
<td>38–228</td>
<td>600–1800</td>
</tr>
</tbody>
</table>

TECH TIP

7001–7033, 7375, 7376 Series Regulators exclusively from Cat Pumps feature conical design delivering unmatched performance and life.

Features:

- Conical design lowers minimum bypass flow from 10%–5%, optimizing system performance
- Virtually eliminates cavitation effects across piston and seat, significantly extending life
- Compact in-line plumbing
- Low-pressure override provides smooth and stable operation without chatter.
## Primary Pressure Control

### Unloaders, Trapped Pressure
- Typically used with trigger gun applications.
- Reduces load on pump and motor when in bypass.
- Easily converted into a relief valve.

### BRASS MODELS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>FLOW RANGE GPM</th>
<th>PRESSURE RANGE PSI</th>
<th>PORTS</th>
<th>BYPASS</th>
</tr>
</thead>
<tbody>
<tr>
<td>75005</td>
<td>0.5–6.0</td>
<td>100–2000</td>
<td>6.9–138</td>
<td>1/4” NPT(M) / 1/4” NPT(F)</td>
</tr>
<tr>
<td>7581</td>
<td>0.5–6.5</td>
<td>230–2300</td>
<td>16–158</td>
<td>1/4” NPT(M) / 1/4” NPT(F)</td>
</tr>
<tr>
<td>7582</td>
<td>0.5–8.0</td>
<td>100–1000</td>
<td>6.9–69</td>
<td>1/4” NPT(M) / 1/4” NPT(F)</td>
</tr>
<tr>
<td>7583</td>
<td>0.5–8.0</td>
<td>250–2000</td>
<td>18–138</td>
<td>1/4” NPT(M) / 1/4” NPT(F)</td>
</tr>
<tr>
<td>7620</td>
<td>0.5–8.0</td>
<td>100–3200</td>
<td>6.9–220</td>
<td>1/4” BSP(M) / 1/4” BSP(F)</td>
</tr>
<tr>
<td>7693</td>
<td>2.5–10.5</td>
<td>230–2300</td>
<td>16–158</td>
<td>1/4” NPT(F) / 1/4” NPT(F)</td>
</tr>
<tr>
<td>7694</td>
<td>2.5–10.5</td>
<td>400–4050</td>
<td>28–280</td>
<td>1/4” NPT(F) / 1/4” NPT(F)</td>
</tr>
<tr>
<td>7630</td>
<td>2.0–10.5</td>
<td>400–5100</td>
<td>28–350</td>
<td>1/4” NPT(M) / 1/4” NPT(F)</td>
</tr>
<tr>
<td>7537</td>
<td>1.0–21</td>
<td>230–2600</td>
<td>16–179</td>
<td>1/2” NPT(F) / 1/2” NPT(F)</td>
</tr>
<tr>
<td>7542</td>
<td>1.0–21</td>
<td>800–4000</td>
<td>55–275</td>
<td>1/2” NPT(F) / 1/2” NPT(F)</td>
</tr>
<tr>
<td>7590</td>
<td>10–52</td>
<td>400–2175</td>
<td>28–150</td>
<td>1” NPT(F) / 1” NPT(F)</td>
</tr>
<tr>
<td>7592</td>
<td>10–52</td>
<td>450–2500</td>
<td>31–175</td>
<td>1” NPT(F) / 1” NPT(F)</td>
</tr>
<tr>
<td>7593</td>
<td>10–52</td>
<td>750–4050</td>
<td>51–280</td>
<td>1” BSPP(G) / 1” BSPP(G)</td>
</tr>
<tr>
<td>9950</td>
<td>50–120</td>
<td>100–2900</td>
<td>69–200</td>
<td>1 1/4” BSPP(F) / 1 1/2” BSPP(F)</td>
</tr>
</tbody>
</table>

### STAINLESS STEEL MODELS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>FLOW RANGE GPM</th>
<th>PRESSURE RANGE PSI</th>
<th>PORTS</th>
<th>BYPASS</th>
</tr>
</thead>
<tbody>
<tr>
<td>7501**</td>
<td>0.5–6.0</td>
<td>100–4000</td>
<td>6.9–275</td>
<td>1/2” NPT(F) / 1/4” NPT(M) Modular/3CP, SCP</td>
</tr>
<tr>
<td>9970*</td>
<td>0.1–15.9</td>
<td>1160–11600</td>
<td>80–800</td>
<td>1/2” BSPP(G) / 1/2” BSPP(G)</td>
</tr>
<tr>
<td>7531*</td>
<td>1.0–21</td>
<td>400–2200</td>
<td>28–155</td>
<td>1/2” NPT(F) / 1/2” NPT(F)</td>
</tr>
<tr>
<td>7533*</td>
<td>1.0–21</td>
<td>800–4000</td>
<td>55–275</td>
<td>1/2” NPT(F) / 1/2” NPT(F)</td>
</tr>
<tr>
<td>7536*</td>
<td>1.0–21</td>
<td>3000–6000</td>
<td>207–414</td>
<td>1/2” NPT(F) / 1/2” NPT(F)</td>
</tr>
</tbody>
</table>

* This unloader will not work on models SCP4120, SCP6120, SCP6180CSS and SCP6190 pumps.

### TECH TIP

**REGULATING UNLOADER TO RELIEF VALVE CONVERSION**

Pressure-Sensitive Regulating Unloaders are typically used as a primary pressure regulating device. They can be converted to a Relief Valve to be used as a secondary pressure relief device by removing the discharge check valve, O-ring and spring.

**Example:**

<table>
<thead>
<tr>
<th>Unloader PN</th>
<th>Modifications</th>
<th>Converted Relief Valve PNs</th>
</tr>
</thead>
<tbody>
<tr>
<td>7537</td>
<td>Remove parts 441, 443, 444</td>
<td>7537.100 (NBR Seals) / 7537.1110 (FPM Seals)</td>
</tr>
</tbody>
</table>
Discharge Accessories

Primary or Secondary Pressure Control

Pressure Relief Valves

- Heavy duty; conveniently mounts directly into discharge line.
- Wide pressure and flow range models available.

BRASS MODELS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>FLOW RANGE</th>
<th>PRESSURE RANGE</th>
<th>PORTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPM LPM PSI BAR</td>
<td>INLET/DISCHARGE</td>
<td>BYPASS</td>
</tr>
<tr>
<td>7189</td>
<td>0.5–6.6</td>
<td>19–249</td>
<td>100–650</td>
</tr>
<tr>
<td>7190</td>
<td>0–6.5</td>
<td>0–246</td>
<td>400–5000</td>
</tr>
</tbody>
</table>

316 STAINLESS STEEL MODELS, FLOW THROUGH

<table>
<thead>
<tr>
<th>MODEL</th>
<th>FLOW RANGE</th>
<th>PRESSURE RANGE</th>
<th>PORTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPM LPM PSI BAR</td>
<td>INLET/DISCHARGE</td>
<td>BYPASS</td>
</tr>
<tr>
<td>7034</td>
<td>0–21</td>
<td>0–80</td>
<td>400–2200</td>
</tr>
<tr>
<td>7036</td>
<td>0–21</td>
<td>0–80</td>
<td>800–4000</td>
</tr>
<tr>
<td>7037</td>
<td>0–21</td>
<td>0–80</td>
<td>3000–5700</td>
</tr>
<tr>
<td>890718</td>
<td>10–50</td>
<td>38–189</td>
<td>1000–8000</td>
</tr>
<tr>
<td>890709</td>
<td>20–60</td>
<td>76–227</td>
<td>1500–4000</td>
</tr>
<tr>
<td>890731</td>
<td>15–75</td>
<td>56–284</td>
<td>100–400</td>
</tr>
<tr>
<td>890700</td>
<td>30–180</td>
<td>114–680</td>
<td>1000–3000</td>
</tr>
<tr>
<td>890702</td>
<td>25–210</td>
<td>95–795</td>
<td>500–2000</td>
</tr>
<tr>
<td>890706</td>
<td>15–260</td>
<td>57–984</td>
<td>250–1000</td>
</tr>
<tr>
<td>890704</td>
<td>45–320</td>
<td>170–1211</td>
<td>500–2000</td>
</tr>
</tbody>
</table>

Note: All trapped pressure unloaders can be configured as a relief valve, see page 25.

BRASS MODELS, TEE MOUNT

<table>
<thead>
<tr>
<th>MODEL</th>
<th>FLOW RANGE</th>
<th>PRESSURE RANGE</th>
<th>PORTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPM LPM PSI BAR</td>
<td>INLET/DISCHARGE</td>
<td>BYPASS</td>
</tr>
<tr>
<td>7084*</td>
<td>1.0–3.5</td>
<td>3.8–13</td>
<td>100–600</td>
</tr>
<tr>
<td>7085*</td>
<td>1.0–3.5</td>
<td>3.8–13</td>
<td>205–2300</td>
</tr>
<tr>
<td>7561</td>
<td>0–4.0</td>
<td>0–15.1</td>
<td>100–1250</td>
</tr>
<tr>
<td>7808</td>
<td>2.8–7.8</td>
<td>9.5–30</td>
<td>150–1450</td>
</tr>
<tr>
<td>7802</td>
<td>2.8–7.8</td>
<td>9.5–30</td>
<td>850–3575</td>
</tr>
<tr>
<td>997304</td>
<td>0–20</td>
<td>0–75.7</td>
<td>0–300</td>
</tr>
<tr>
<td>7196</td>
<td>0–21</td>
<td>0–80</td>
<td>100–7250</td>
</tr>
<tr>
<td>7595</td>
<td>1.0–53</td>
<td>3.8–200</td>
<td>260–2600</td>
</tr>
</tbody>
</table>

* Model 7084C & 7085C available with handles

Need selection assistance?

Browse the complete Cat Pumps accessory catalog using the product selector at catpumps.com. Search by applicable information including model number, performance, material or product type.

You can also browse the Service & Training section to find system design, installation and maintenance information, as well as handy formulas and charts to assist in all phases of selection and design.
Discharge Accessories

Secondary Pressure Control

Pop-Off Valves
- Opens when system exceeds preset pressure.
- Lightweight, compact design quickly and conveniently mounts directly into discharge line.
- Ultra compact models for portable systems.

**BRASS MODELS**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MAX FLOW GPM</th>
<th>PRESSURE RANGE PSI BAR</th>
<th>MAX RELIEF SETTING PSI BAR</th>
<th>PORTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>30960</td>
<td>6.0 23</td>
<td>300–1500 20–103</td>
<td>1650 114</td>
<td>¼&quot; NPT(M) ½&quot; Barb</td>
</tr>
<tr>
<td>33960</td>
<td>6.0 23</td>
<td>300–1500 20–103</td>
<td>1650 114</td>
<td>½&quot; NPT(M) ½&quot; Barb</td>
</tr>
<tr>
<td>33960S</td>
<td>6.0 23</td>
<td>1000–4000 69–275</td>
<td>4400 303</td>
<td>½&quot; NPT(M) ½&quot; Barb</td>
</tr>
<tr>
<td>33961</td>
<td>6.0 23</td>
<td>1000–4000 69–275</td>
<td>4400 303</td>
<td>½&quot; NPT(M) ½&quot; Barb</td>
</tr>
<tr>
<td>33961S</td>
<td>6.0 23</td>
<td>1000–4000 69–275</td>
<td>4400 303</td>
<td>½&quot; NPT(M) ½&quot; Barb</td>
</tr>
<tr>
<td>9940</td>
<td>25 95</td>
<td>1000–4000 69–275</td>
<td>4400 303</td>
<td>½&quot; NPT(M) 1&quot; Barb</td>
</tr>
</tbody>
</table>

**316 STAINLESS STEEL MODELS**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MAX FLOW GPM</th>
<th>PRESSURE RANGE PSI BAR</th>
<th>MAX RELIEF SETTING PSI BAR</th>
<th>PORTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>9960</td>
<td>6.0 23</td>
<td>300–1500 20–103</td>
<td>1650 114</td>
<td>¼&quot; NPT(M) ½&quot; Barb</td>
</tr>
<tr>
<td>9960S</td>
<td>6.0 23</td>
<td>300–1500 20–103</td>
<td>1650 114</td>
<td>½&quot; NPT(M) ½&quot; Barb</td>
</tr>
<tr>
<td>9961</td>
<td>6.0 23</td>
<td>1000–3000 69–207</td>
<td>3300 228</td>
<td>½&quot; NPT(M) ½&quot; Barb</td>
</tr>
<tr>
<td>9961S</td>
<td>6.0 23</td>
<td>1000–3000 69–207</td>
<td>3300 228</td>
<td>½&quot; NPT(M) ½&quot; Barb</td>
</tr>
<tr>
<td>9962</td>
<td>6.0 23</td>
<td>1000–4000 69–275</td>
<td>4400 303</td>
<td>½&quot; NPT(M) ½&quot; Barb</td>
</tr>
<tr>
<td>9962S</td>
<td>6.0 23</td>
<td>1000–4000 69–275</td>
<td>4400 303</td>
<td>½&quot; NPT(M) ½&quot; Barb</td>
</tr>
<tr>
<td>997587</td>
<td>15 57</td>
<td>1500–10000 105–689</td>
<td>11000 758</td>
<td>½&quot; NPT(F) 1&quot; NPT(F)</td>
</tr>
<tr>
<td>9941</td>
<td>25 95</td>
<td>1000–4000 69–275</td>
<td>4400 303</td>
<td>½&quot; NPT(M) 1&quot; Barb</td>
</tr>
<tr>
<td>890711</td>
<td>50 189</td>
<td>1000–6000 69–414</td>
<td>7500 517</td>
<td>1&quot; NPT(M) 1&quot; NPT(F)</td>
</tr>
<tr>
<td>890710</td>
<td>100 378</td>
<td>300–1500 20–103</td>
<td>1875 129</td>
<td>1&quot; NPT(M) 1&quot; NPT(F)</td>
</tr>
<tr>
<td>890714**</td>
<td>100 378</td>
<td>300–1500 20–103</td>
<td>1875 129</td>
<td>1&quot; NPT(M) 1&quot; NPT(F)</td>
</tr>
<tr>
<td>890715</td>
<td>100 378</td>
<td>800–4000 55–275</td>
<td>4000 258</td>
<td>2&quot; NPT(M) 2&quot; NPT(F)</td>
</tr>
<tr>
<td>890712</td>
<td>115 435</td>
<td>500–3000 35–207</td>
<td>3750 258</td>
<td>1&quot; NPT(M) 1&quot; NPT(F)</td>
</tr>
<tr>
<td>890703</td>
<td>135 511</td>
<td>400–1500 28–103</td>
<td>1875 129</td>
<td>2&quot; NPT(M) 2&quot; NPT(F)</td>
</tr>
<tr>
<td>890713</td>
<td>210 795</td>
<td>800–4000 55–275</td>
<td>5000 345</td>
<td>2&quot; NPT(M) 2&quot; NPT(F)</td>
</tr>
</tbody>
</table>

RUPTURE DISC ASSEMBLY

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MAX FLOW GPM</th>
<th>MAX RELIEF SETTING PSI BAR</th>
<th>PORTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>9921</td>
<td>20 76</td>
<td>10000 689</td>
<td>¼&quot;NPT(M) ¼&quot; NPT(F)</td>
</tr>
<tr>
<td>9920</td>
<td>20 76</td>
<td>15000 1034</td>
<td>¼&quot;NPT(M) ¼&quot; NPT(F)</td>
</tr>
</tbody>
</table>

**Primary and Secondary Relief**

Cat Pumps always recommends each high-pressure pumping system to be equipped with a primary and secondary safety relief device as a safeguard against over pressurization. Either a pressure regulator or pressure regulating unloader can be used as a primary relief device, but a pressure relief or pop-off valve should always be included when designing a system. This is an economical alternative to protect a system from failure that can damage expensive system components and lead to costly downtime.
Discharge Accessories

Pressure Gauges
Accurately monitors pump outlet pressure.
- Glycerine-filled for consistent and accurate pressure readings.
- Sealed stainless steel case eliminates corrosion risk.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PRESSURE RANGE PSI</th>
<th>MAXIMUM TEMPERATURE °F</th>
<th>PORT MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>6091</td>
<td>0–1000</td>
<td>0–69</td>
<td>¼&quot; NPT(M)</td>
</tr>
<tr>
<td>6092**</td>
<td>0–1000</td>
<td>0–69</td>
<td>¼&quot; NPT(M)</td>
</tr>
<tr>
<td>6086</td>
<td>0–1500</td>
<td>0–103</td>
<td>¼&quot; NPT(M)</td>
</tr>
<tr>
<td>6094**</td>
<td>0–1500</td>
<td>0–103</td>
<td>¼&quot; NPT(M)</td>
</tr>
<tr>
<td>6088</td>
<td>0–3000</td>
<td>0–207</td>
<td>¼&quot; NPT(M)</td>
</tr>
<tr>
<td>6096**</td>
<td>0–3000</td>
<td>0–207</td>
<td>¼&quot; NPT(M)</td>
</tr>
<tr>
<td>6089</td>
<td>0–6000</td>
<td>0–415</td>
<td>¼&quot; NPT(M)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PRESSURE RANGE PSI</th>
<th>MAXIMUM TEMPERATURE °F</th>
<th>PORT MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>6069</td>
<td>0–600</td>
<td>0–41</td>
<td>¼&quot; NPT(M)</td>
</tr>
<tr>
<td>6071</td>
<td>0–1500</td>
<td>0–103</td>
<td>¼&quot; NPT(M)</td>
</tr>
<tr>
<td>6085</td>
<td>0–1500</td>
<td>0–103</td>
<td>¼&quot; NPT(M)</td>
</tr>
<tr>
<td>6073</td>
<td>0–3000</td>
<td>0–207</td>
<td>¼&quot; NPT(M)</td>
</tr>
<tr>
<td>6097</td>
<td>0–3000</td>
<td>0–207</td>
<td>¼&quot; NPT(M)</td>
</tr>
<tr>
<td>6127</td>
<td>0–4000</td>
<td>0–275</td>
<td>¼&quot; NPT(M)</td>
</tr>
<tr>
<td>6076</td>
<td>0–6000</td>
<td>0–415</td>
<td>¼&quot; NPT(M)</td>
</tr>
<tr>
<td>6087</td>
<td>0–6000</td>
<td>0–415</td>
<td>¼&quot; NPT(M)</td>
</tr>
<tr>
<td>6081*</td>
<td>0–20000</td>
<td>0–1379</td>
<td>½&quot; NPT(M)</td>
</tr>
</tbody>
</table>

* Black polyester case  ** Back Mount

Valve Plug Adapters
Used to add an accessory to discharge port
- Replaces one top valve plug with a ported valve plug to add a pressure gauge, pop-off valve or other accessory.
- Eliminates the need for additional plumbing on the discharge port.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MODELS USED</th>
<th>PORT MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>35759</td>
<td>1DX, 2DX, 3DX</td>
<td>¼&quot; NPT(F)</td>
</tr>
<tr>
<td>35761</td>
<td>2DX, 3DX</td>
<td>¼&quot; NPT(F)</td>
</tr>
<tr>
<td>134670</td>
<td>3DNX, 3SPX, 4DX, 4DNX, 4SPX, 5SP</td>
<td>¼&quot; NPT(F)</td>
</tr>
<tr>
<td>35758</td>
<td>66DX Series</td>
<td>½&quot; NPT(F)</td>
</tr>
<tr>
<td>998954</td>
<td>3CP Series, 310–350, SCP2100 Series</td>
<td>½&quot; NPT(F)</td>
</tr>
<tr>
<td>34549</td>
<td>45, SCP3105–3160CSS, SCP5120–5CP5140</td>
<td>½&quot; NPT(F)</td>
</tr>
<tr>
<td>45939T</td>
<td>56–60</td>
<td>½&quot; NPT(F)</td>
</tr>
<tr>
<td>34447</td>
<td>7PPR, 15PPR, 5CP6120, SCP6180CSS, 7CP</td>
<td>½&quot; NPT(F)</td>
</tr>
<tr>
<td>43848</td>
<td>1530, 1530C, 1730</td>
<td>½&quot; NPT(F)</td>
</tr>
<tr>
<td>76795</td>
<td>3507, 3517</td>
<td>¼&quot; NPT(F)</td>
</tr>
<tr>
<td>997878</td>
<td>3560</td>
<td>¼&quot; NPT(F)</td>
</tr>
<tr>
<td>76678</td>
<td>3527, 3537, 3547, 3570, 3570C, 3570S</td>
<td>¼&quot; NPT(F)</td>
</tr>
<tr>
<td>76461</td>
<td>6760, 6775</td>
<td>¼&quot; NPT(F)</td>
</tr>
</tbody>
</table>

Quick Disconnect Assemblies
Used to connect discharge hose to discharge hose.
- Straight-through flow design.

<table>
<thead>
<tr>
<th>MODELS</th>
<th>MATERIAL</th>
<th>MAXIMUM PSI</th>
<th>PORT MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>990469</td>
<td>Brass</td>
<td>2000</td>
<td>½&quot; NPT(F) x ½&quot; NPT(F)</td>
</tr>
<tr>
<td>34380</td>
<td>Brass</td>
<td>4000</td>
<td>½&quot; NPT(F) x ½&quot; NPT(F)</td>
</tr>
<tr>
<td>34381</td>
<td>Steel</td>
<td>10000</td>
<td>½&quot; NPT(F) x ½&quot; NPT(F)</td>
</tr>
</tbody>
</table>
Discharge Accessories

Pulsation Dampeners

Used when a smooth output flow and pressure are required.
• Pressurized bladder absorbs impact from pressure spikes, providing smoother flow.
• Most models are field repairable and rechargeable.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MAXIMUM FLOW</th>
<th>PRESSURE RANGE</th>
<th>BLADDER MATERIAL</th>
<th>VOLUME</th>
<th>PRECHARGE</th>
<th>PORT INLET</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPM</td>
<td>LPM</td>
<td>PSI</td>
<td>BAR</td>
<td>CUBIC INCHES</td>
<td>PSI</td>
</tr>
<tr>
<td>6029</td>
<td>15</td>
<td>57</td>
<td>100–3000</td>
<td>6.9–207</td>
<td>NBR</td>
<td>10</td>
</tr>
<tr>
<td>6011</td>
<td>25</td>
<td>95</td>
<td>100–7200</td>
<td>6.9–500</td>
<td>NBR</td>
<td>15</td>
</tr>
<tr>
<td>6018</td>
<td>40</td>
<td>151</td>
<td>100–3000</td>
<td>6.9–207</td>
<td>NBR</td>
<td>45</td>
</tr>
<tr>
<td>6022</td>
<td>70</td>
<td>265</td>
<td>100–1500</td>
<td>6.9–103</td>
<td>NBR</td>
<td>120</td>
</tr>
</tbody>
</table>

Due to the design of positive displacement pumps, small pressure spikes are caused during each rotation. In certain operations, these spikes can cause accelerated wear or damage to the pump or downstream components. The installation of a pulsation dampener is the best practice to reduce pressure fluctuations.

**Pulsation Dampener Benefits:**
• Produces smooth, consistent flow
• Protects downstream components (e.g., regulator, unloader, relief valve)
• Reduces water hammer
• Improved performance at low rpm

**TECH TIP**
Due to the design of positive displacement pumps, small pressure spikes are caused during each rotation. In certain operations, these spikes can cause accelerated wear or damage to the pump or downstream components. The installation of a pulsation dampener is the best practice to reduce pressure fluctuations.

**Pulsation Dampener Ordering Information**
For optimal performance, pulsation dampener precharge should be set accordingly:
• Rechargeable (6011–6031) should be preset at 50% of the operating pressure
• Rebuildable (701501–701610) should be preset to 75% of the operating pressure

To change the preset precharge, add a .800 to the part number and specify precharge pressure.
Inlet Accessories

Filters

Used to filter solid particulates in water.

- Flow from inside-to-outside allows sediment to collect inside the removable filter screen.
- Removable bowl permits easy cleaning without removing filter or plumbing.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>SUCTION/ PRESSURIZED FLOW</th>
<th>SCREEN</th>
<th>PORTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPM LPM</td>
<td>MESH MATERIAL</td>
<td>INLET DISCHARGE</td>
</tr>
<tr>
<td>WHITE NYLON BODY</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7104*</td>
<td>6/10</td>
<td>23/38</td>
<td>80</td>
</tr>
<tr>
<td>7105*</td>
<td>15/20</td>
<td>57/76</td>
<td>80</td>
</tr>
<tr>
<td>7106*</td>
<td>20/25</td>
<td>76/95</td>
<td>80</td>
</tr>
<tr>
<td>7107*</td>
<td>35/50</td>
<td>133/189</td>
<td>80</td>
</tr>
<tr>
<td>7108*</td>
<td>60/75</td>
<td>227/284</td>
<td>80</td>
</tr>
<tr>
<td>CLEAR NYLON BODY</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7104.4*</td>
<td>6/10</td>
<td>23/38</td>
<td>80</td>
</tr>
<tr>
<td>7105.5*</td>
<td>15/20</td>
<td>57/76</td>
<td>80</td>
</tr>
<tr>
<td>7106.6*</td>
<td>20/25</td>
<td>76/95</td>
<td>80</td>
</tr>
<tr>
<td>7107.7*</td>
<td>35/50</td>
<td>133/189</td>
<td>80</td>
</tr>
<tr>
<td>7108.8*</td>
<td>60/75</td>
<td>227/284</td>
<td>80</td>
</tr>
<tr>
<td>POLYPROPYLENE BODY (Y-INLINE)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7109</td>
<td>100/150</td>
<td>378/567</td>
<td>80</td>
</tr>
<tr>
<td>WHITE NYLON BODY (MICRO)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7203</td>
<td>10 gpm max</td>
<td>38</td>
<td>80</td>
</tr>
<tr>
<td>7204</td>
<td>10 gpm max</td>
<td>38</td>
<td>80</td>
</tr>
<tr>
<td>CLEAR NYLON BODY (MICRO)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7203.3</td>
<td>10 gpm max</td>
<td>38</td>
<td>80</td>
</tr>
<tr>
<td>7204.4</td>
<td>10 gpm max</td>
<td>38</td>
<td>80</td>
</tr>
<tr>
<td>REINFORCED COMPOSITE BODY (W/ BRASS THREADED PORTS, ¼” BSP(F) AUXILIARY PORT)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>32738</td>
<td>8 gpm max</td>
<td>30</td>
<td>50</td>
</tr>
<tr>
<td>32748</td>
<td>8 gpm max</td>
<td>30</td>
<td>50</td>
</tr>
</tbody>
</table>

S = 304 Stainless steel, SS = 316 Stainless steel  Optional Mesh sizes available
* For suction applications refer to Data Sheets for inlet pressure losses vs. flow to prevent cavitation.

Inlet Pressure Gauges

Accurately monitors pump inlet pressure.

- Glycerine-filled for consistent and accurate pressure readings.
- Sealed stainless steel case eliminates corrosion risk.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MAXIMUM PRESSURE</th>
<th>TEMPERATURE RANGE</th>
<th>PORTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PSI BAR</td>
<td>(° F)  (° C)</td>
<td>INLET</td>
</tr>
<tr>
<td>BRASS MODELS (BRASS FITTING AND BOURDON TUBE, 304 SS CASE)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6082</td>
<td>100 6.9</td>
<td>30-160 -1.1–71</td>
<td>¼” NPT(M) Bottom</td>
</tr>
<tr>
<td>997901</td>
<td>400 28</td>
<td>0-150 -17–65</td>
<td>¼” NPT(M) Bottom</td>
</tr>
<tr>
<td>STAINLESS STEEL MODELS (316 SS FITTING AND BOURDON TUBE, 304 SS CASE)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>997068*</td>
<td>160 11</td>
<td>-4–140 -20–60</td>
<td>¼” NPT(M) Bottom</td>
</tr>
<tr>
<td>997336</td>
<td>160 11</td>
<td>0–140 -17–60</td>
<td>¼” NPT(M) Panel Mount</td>
</tr>
<tr>
<td>994063*</td>
<td>400 28</td>
<td>0–210 -17–98</td>
<td>½” NPT(M) Bottom</td>
</tr>
</tbody>
</table>

* Black polyester case
Note: Maximum inlet pressure is 70 psi on most pumps. Review pump data sheet.
Inlet Accessories

Inlet Pressure Regulators
Used to set and maintain consistent pressure at pump inlet.

- Convenient, compact in-line installation.
- Adjustable and non-adjustable models available.
- Improves pump performance.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MAXIMUM FLOW</th>
<th>INLET PRESSURE</th>
<th>OUTLET PRESSURE</th>
<th>PORTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPM</td>
<td>PSI</td>
<td>PSI</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LPM</td>
<td>BAR</td>
<td>BAR</td>
<td>INLET</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BRASS – NONADJUSTABLE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7069</td>
<td>10</td>
<td>38</td>
<td>40–200</td>
<td>3–14</td>
</tr>
<tr>
<td>7071</td>
<td>10</td>
<td>38</td>
<td>40–200</td>
<td>3–14</td>
</tr>
<tr>
<td>STAINLESS STEEL – ADJUSTABLE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>755075</td>
<td>0–12</td>
<td>0–45</td>
<td>350</td>
<td>24</td>
</tr>
<tr>
<td>755100</td>
<td>0–20</td>
<td>0–76</td>
<td>350</td>
<td>24</td>
</tr>
<tr>
<td>755150</td>
<td>0–50</td>
<td>0–189</td>
<td>350</td>
<td>24</td>
</tr>
<tr>
<td>755200</td>
<td>0–75</td>
<td>0–284</td>
<td>350</td>
<td>24</td>
</tr>
</tbody>
</table>

Inlet Pressure Relief Valves
Protects the inlet line from overpressurization.

- Simple preset design to protect from excessive inlet pressure or pressure spikes.
- Built for convenient compact installation.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>FLOW RANGE</th>
<th>RELIEF PRESSURE</th>
<th>PORTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPM</td>
<td>PSI</td>
<td>INLET</td>
</tr>
<tr>
<td></td>
<td>LPM</td>
<td>BAR</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BRASS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7420</td>
<td>0–10</td>
<td>0–378</td>
<td>125</td>
</tr>
<tr>
<td>STAINLESS STEEL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7421</td>
<td>0–10</td>
<td>0–378</td>
<td>75</td>
</tr>
</tbody>
</table>

Inlet Stabilizers
Used to maintain consistent inlet pressure.

- Eliminates cavitation and potentially damaging surges and hydraulic spikes.
- Compact, easy installation with matching adapter assemblies.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MAXIMUM FLOW</th>
<th>INLET PRESSURE RANGE</th>
<th>PORTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPM</td>
<td>PSI</td>
<td>ADAPTER SIZES AVAILABLE</td>
</tr>
<tr>
<td></td>
<td>LPM</td>
<td>BAR</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>STAINLESS STEEL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>711500</td>
<td>15</td>
<td>57</td>
<td>2.0–50</td>
</tr>
<tr>
<td>714500</td>
<td>45</td>
<td>170</td>
<td>2.0–50</td>
</tr>
<tr>
<td>717500</td>
<td>75</td>
<td>284</td>
<td>2.0–50</td>
</tr>
<tr>
<td>719500</td>
<td>320</td>
<td>1211</td>
<td>2.0–60</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FITTING SIZE</th>
<th>INLET STABILIZERS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>711500</td>
</tr>
<tr>
<td></td>
<td>714500</td>
</tr>
<tr>
<td></td>
<td>717500</td>
</tr>
<tr>
<td></td>
<td>719500</td>
</tr>
</tbody>
</table>

STRAIGHT ADAPTER FITTINGS

<table>
<thead>
<tr>
<th>SIZE</th>
<th>FITTING</th>
</tr>
</thead>
<tbody>
<tr>
<td>½&quot; NPT(M)</td>
<td>711502</td>
</tr>
<tr>
<td>¼&quot; NPT(M)</td>
<td>711503</td>
</tr>
<tr>
<td>1&quot; NPT(M)</td>
<td>711504</td>
</tr>
<tr>
<td>1 ¼&quot; NPT(M)</td>
<td>711505</td>
</tr>
<tr>
<td>1 ½&quot; NPT(M)</td>
<td>711506</td>
</tr>
<tr>
<td>2&quot; NPT(M)</td>
<td>714508</td>
</tr>
<tr>
<td>2 ½&quot; NPT(M)</td>
<td>717508</td>
</tr>
</tbody>
</table>

ELBOW ADAPTER FITTINGS

<table>
<thead>
<tr>
<th>SIZE</th>
<th>FITTING</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 ½&quot;</td>
<td>701818</td>
</tr>
<tr>
<td>2 ½&quot;</td>
<td>701828</td>
</tr>
<tr>
<td>3&quot;</td>
<td>701833</td>
</tr>
<tr>
<td>6&quot;</td>
<td>719529</td>
</tr>
</tbody>
</table>
Thermal Valves

Reduces heat build-up in a closed-loop bypass system.
- Lightweight with three port size options for easy installation.
- Recommended when bypass is redirected to pump inlet.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>TEMPERATURE</th>
<th>PORTS</th>
<th>MAXIMUM FLOW</th>
<th>MAXIMUM PRESSURE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>°F</td>
<td>INLET</td>
<td>BLEED</td>
<td>GPM</td>
</tr>
<tr>
<td>BRASS MODELS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7140</td>
<td>145</td>
<td>¼&quot; NPT(M)</td>
<td>½&quot; NPT(F)</td>
<td>25</td>
</tr>
<tr>
<td>7141</td>
<td>145</td>
<td>½&quot; NPT(M)</td>
<td>½&quot; NPT(F)</td>
<td>25</td>
</tr>
<tr>
<td>7142</td>
<td>165</td>
<td>¼&quot; NPT(M)</td>
<td>½&quot; NPT(F)</td>
<td>25</td>
</tr>
<tr>
<td>7143</td>
<td>165</td>
<td>½&quot; NPT(M)</td>
<td>½&quot; NPT(F)</td>
<td>25</td>
</tr>
<tr>
<td>7144</td>
<td>165</td>
<td>¾&quot; NPT(M)</td>
<td>½&quot; NPT(F)</td>
<td>25</td>
</tr>
<tr>
<td>7145</td>
<td>165</td>
<td>⅜&quot; NPT(M)</td>
<td>⅛&quot; NPT(F)</td>
<td>25</td>
</tr>
<tr>
<td>7146</td>
<td>130</td>
<td>⅛&quot; NPT(M)</td>
<td>⅛&quot; NPT(F)</td>
<td>25</td>
</tr>
<tr>
<td>7170</td>
<td>180</td>
<td>¼&quot; NPT(M)</td>
<td>⅛&quot; NPT(F)</td>
<td>25</td>
</tr>
<tr>
<td>7171</td>
<td>180</td>
<td>⅛&quot; NPT(M)</td>
<td>⅛&quot; NPT(F)</td>
<td>25</td>
</tr>
<tr>
<td>7172</td>
<td>180</td>
<td>½&quot; NPT(M)</td>
<td>⅛&quot; NPT(F)</td>
<td>25</td>
</tr>
<tr>
<td>7175</td>
<td>190</td>
<td>⅛&quot; NPT(M)</td>
<td>⅛&quot; NPT(F)</td>
<td>25</td>
</tr>
<tr>
<td>7176</td>
<td>190</td>
<td>⅛&quot; NPT(M)</td>
<td>⅛&quot; NPT(F)</td>
<td>25</td>
</tr>
<tr>
<td>7177</td>
<td>190</td>
<td>⅛&quot; NPT(M)</td>
<td>⅛&quot; NPT(F)</td>
<td>25</td>
</tr>
<tr>
<td>BRASS-MICRO MODELS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7116</td>
<td>145</td>
<td>⅜&quot; BSP(M)</td>
<td>7 mm</td>
<td>25</td>
</tr>
<tr>
<td>REINFORCED COMPOSITE MODELS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7128</td>
<td>165</td>
<td>¼&quot; NPT(M)</td>
<td>½&quot; NPT(F)</td>
<td>25</td>
</tr>
<tr>
<td>7129</td>
<td>165</td>
<td>⅜&quot; NPT(M)</td>
<td>½&quot; NPT(F)</td>
<td>25</td>
</tr>
<tr>
<td>7130</td>
<td>165</td>
<td>½&quot; NPT(M)</td>
<td>½&quot; NPT(F)</td>
<td>25</td>
</tr>
<tr>
<td>7135</td>
<td>145</td>
<td>¼&quot; NPT(M)</td>
<td>½&quot; NPT(F)</td>
<td>25</td>
</tr>
<tr>
<td>7136</td>
<td>145</td>
<td>⅜&quot; NPT(M)</td>
<td>½&quot; NPT(F)</td>
<td>25</td>
</tr>
<tr>
<td>7137</td>
<td>145</td>
<td>½&quot; NPT(M)</td>
<td>½&quot; NPT(F)</td>
<td>25</td>
</tr>
<tr>
<td>7138</td>
<td>130</td>
<td>¼&quot; NPT(M)</td>
<td>½&quot; NPT(F)</td>
<td>25</td>
</tr>
</tbody>
</table>

Garden Hose Assemblies

Used to connect garden hose to pump inlet port.
- Convenient swivel for easy inlet connection.
- Inlet screen for filtering.

<table>
<thead>
<tr>
<th>MODELS</th>
<th>MATERIAL</th>
<th>USED ON PUMP MODELS</th>
<th>PORT</th>
</tr>
</thead>
<tbody>
<tr>
<td>941516</td>
<td>Brass</td>
<td>4DX Series, 4DNX Series, 4SP</td>
<td>⅜&quot; NPT(M)</td>
</tr>
<tr>
<td>941517</td>
<td>Brass</td>
<td>4SF Series, 66DX Series, 5CP, 5SP</td>
<td>⅛&quot; NPT(M)</td>
</tr>
</tbody>
</table>
Specialty Accessories

Easy Start Valve

Designed to relieve pump discharge line pressure during system start-up.

- Use with a pressure-sensitive regulating unloader (install after unloader).
- Requires less engine or motor start-up power.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MAXIMUM FLOW GPM</th>
<th>MAXIMUM PRESSURE PSI</th>
<th>OPENING PRESSURE PSI</th>
<th>INLET PORT</th>
<th>BARB</th>
</tr>
</thead>
<tbody>
<tr>
<td>7126</td>
<td>8.0</td>
<td>4050</td>
<td>105</td>
<td>¼&quot; NPT(M)</td>
<td>¼&quot;</td>
</tr>
</tbody>
</table>

Throttle Control

Reduces engine wear and fuel consumption by lowering rpm when pump is in bypass.

- Can be used on any size gas engine.
- Used with pressure-sensitive regulating unloaders.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MAXIMUM PRESSURE PSI</th>
<th>ACTUATION PRESSURE PSI</th>
<th>INLET PORT</th>
</tr>
</thead>
<tbody>
<tr>
<td>8100</td>
<td>4000</td>
<td>250</td>
<td>¼&quot; NPT(M)</td>
</tr>
</tbody>
</table>

Mag-Jet and Pulsator Assemblies

Converts water-pressure pump to a water-jetting pump.

- Eliminates traditional dry pumping chamber that causes damage to pump.
- Easily mounts in the manifold inlet plug on most Cat Pumps models.

**MAG-JET ASSEMBLIES**

- 31804: 3CP1100CS, 3CP1120, 3CP1120G, 3CP1130, 3CP1140
- 31810: 56, 56G1, 56G118, 56H5, 56HSG1, 56HSG118S7, 60, 60G1, 60G118
- 31814: 310, 340, 350, 3CP2120W, 3CP2140WCS, 3CP2150W
- 31815: 45, 45G1, 5CP3120, 5CP3120CSS, 5CP3120CSSG1, 5CP5120, 5CP5120CSS, 5CP5135CSS, 5CP5135CSSG1, 5CP5140CSS, 5CP5140CSSG1, 5CP5140CSSG118
- 31845: 530, 550, 660, 1050, 5CP6120, 5CP6120CSSG1, 7CP6110CS, 7CP6110CSSG1, 7CP6160CS, 7CP6160CSSG1, 7CP6170, 7CP6170G1

**PULSATOR ASSEMBLIES**

- 34455: 2SFX Series Pumps
- 76560: 1560
- 35450: 66DX Series
- 34451: 56, 56H5G1, 56G118, 56H5, 56HSG1, 56HSG117, 57, 60, 60G1, 60G118
- 34458: 45, 5CP3120, 5CP3120CSS, 5CP3120CSSG1, 5CP5120, 5CP5120CSS, 5CP5140CSS, 5CP5140CSSG1, 5CP5140CSSG118
- 34448: 660, 1050, 7CP6110CS, 7CP6110CSSG1, 7CP6160CS, 7CP6160CSSG1, 7CP6170, 7CP6170G1
- 77071: 2510
**Auto Shut-Off Assemblies**

Used to automatically shut system off when trigger gun is released or nozzle is closed.

- Assembly includes a pair of pressure switches, mechanical relay, electrical box and toggle switch.
- Higher horsepower units use a magnetic motor starter and overload heaters.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>HORSEPOWER/PHASE</th>
<th>VOLTAGE</th>
<th>PRESSURE SWITCH MODELS</th>
<th>MECHANICAL RELAY MODEL</th>
<th>STARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>34870</td>
<td>2/1</td>
<td>115</td>
<td>31615, 31625</td>
<td>34542</td>
<td>NA</td>
</tr>
<tr>
<td>34871</td>
<td>3/1</td>
<td>220</td>
<td>31615, 31625</td>
<td>34543</td>
<td>NA</td>
</tr>
<tr>
<td>12VAUTO80</td>
<td>1/DC</td>
<td>12</td>
<td>31615, 31625</td>
<td>76593</td>
<td>NA</td>
</tr>
</tbody>
</table>

**LPS Monitors**

Designed to sense water leakage past the low-pressure seals.

- Can configure the monitor to PLC or PC based systems.
- Light option to alert maintenance personnel when pump seal replacement is required.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>USED ON PUMP MODELS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLC/PC INTERFACE FOR 15 AND 18 FRAME PLUNGER PUMPS</td>
<td>Plunger pumps: 650 thru 1810K</td>
</tr>
<tr>
<td>30664</td>
<td></td>
</tr>
<tr>
<td>INDICATOR LIGHT FOR 15 AND 18 FRAME PLUNGER PUMPS</td>
<td>Plunger pumps: 650 thru 1810K</td>
</tr>
<tr>
<td>30664.120VAC, 30664.240VAC</td>
<td></td>
</tr>
<tr>
<td>30290, 30292</td>
<td></td>
</tr>
<tr>
<td>30290.120VAC</td>
<td></td>
</tr>
</tbody>
</table>

**Float Valves**

Maintains adequate liquid level in reservoir to provide consistent flow to pump inlet.

- Adjustable or preset models available.
- Compact and easy to install.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MAXIMUM FLOW GPM</th>
<th>MAXIMUM INLET PRESSURE PSI</th>
<th>INLET PORT</th>
<th>INTERNAL BODY</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADJUSTABLE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>31013</td>
<td>7.1</td>
<td>145</td>
<td>10</td>
<td>1/4&quot; BSP(M)</td>
</tr>
<tr>
<td>32010</td>
<td>8.0</td>
<td>145</td>
<td>10</td>
<td>1/4&quot; BSP(M)</td>
</tr>
</tbody>
</table>
**Specialty Accessories**

**Pressure Switches**

Pressure-activated control device to control on-off operation of low amp system components.

- Non-adjustable, preset pressure setting for consistent system protection.
- 3-wire construction for either normally open or normally closed operation.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MAXIMUM PRESSURE</th>
<th>SWITCHING PRESSURE</th>
<th>VOLTAGE RANGE</th>
<th>MAXIMUM AMP</th>
<th>INLET PORT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PSI</td>
<td>BAR</td>
<td>PSI</td>
<td>BAR</td>
<td></td>
</tr>
<tr>
<td>STAINLESS STEEL – NPT PORTS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>31615</td>
<td>3650</td>
<td>250</td>
<td>215</td>
<td>15</td>
<td>12–250</td>
</tr>
<tr>
<td>31625</td>
<td>3650</td>
<td>250</td>
<td>360</td>
<td>25</td>
<td>12–250</td>
</tr>
<tr>
<td>31640</td>
<td>3650</td>
<td>250</td>
<td>580</td>
<td>40</td>
<td>12–250</td>
</tr>
</tbody>
</table>

**Flow Switches**

Flow control device used to shut down pump when trigger on gun is released.

- Mount to discharge fitting of unloader to monitor when gun is open or closed.
- Use in conjunction with a relay switch.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>FLOW RANGE</th>
<th>MAXIMUM PRESSURE</th>
<th>MAXIMUM VOLTAGE</th>
<th>PORTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPM</td>
<td>LPM</td>
<td>PSI</td>
<td>BAR</td>
</tr>
<tr>
<td>BRASS MODELS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>33786</td>
<td>1.6–15.9</td>
<td>6–60</td>
<td>5100</td>
<td>350</td>
</tr>
<tr>
<td>33776</td>
<td>0.8–8</td>
<td>3–30</td>
<td>3650</td>
<td>250</td>
</tr>
<tr>
<td>33778</td>
<td>1.0–15.9</td>
<td>3.8–60</td>
<td>5100</td>
<td>350</td>
</tr>
</tbody>
</table>

**Thermostat**

Device to adjust and maintain temperature of a high-pressure water system.

- Adjustable to an accuracy of ±5° F.
- UL/CSA approved.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>TEMPERATURE RANGE</th>
<th>MAXIMUM PRESSURE</th>
<th>VOLTAGE RANGE</th>
<th>MAXIMUM AMPS</th>
<th>PORTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>°F</td>
<td>PSI</td>
<td>BAR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>76239</td>
<td>86°–302° F</td>
<td>4000</td>
<td>276</td>
<td>120–240</td>
<td>20</td>
</tr>
</tbody>
</table>
### Guns, Gun & Lance Assemblies

Ergonomic construction with smooth trigger action-reducing operator fatigue.

- Safety lock to prevent unintentional operation.
- Stainless steel seat and ball for thousands of continuous cycles.

#### SHUT-OFF GUN, BRASS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MAXIMUM FLOW</th>
<th>MAXIMUM PRESSURE</th>
<th>PORTS</th>
<th>STYLE</th>
<th>TRIGGER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPM</td>
<td>LPM</td>
<td>PSI</td>
<td>BAR</td>
<td>INLET</td>
</tr>
<tr>
<td>33425</td>
<td>8</td>
<td>30</td>
<td>2900</td>
<td>200</td>
<td>¼&quot; NPT(F)</td>
</tr>
<tr>
<td>76165</td>
<td>8</td>
<td>30</td>
<td>4000</td>
<td>275</td>
<td>¼&quot; NPT(F)</td>
</tr>
<tr>
<td>35150</td>
<td>8</td>
<td>30</td>
<td>5000</td>
<td>345</td>
<td>¼&quot; NPT(F)</td>
</tr>
<tr>
<td>31260</td>
<td>8</td>
<td>30</td>
<td>5100</td>
<td>350</td>
<td>¼&quot; NPT(F)</td>
</tr>
<tr>
<td>31137</td>
<td>10</td>
<td>38</td>
<td>4500</td>
<td>310</td>
<td>¼&quot; NPT(F)</td>
</tr>
<tr>
<td>36140</td>
<td>10.5</td>
<td>40</td>
<td>5000</td>
<td>345</td>
<td>¼&quot; NPT(F)</td>
</tr>
<tr>
<td>31265</td>
<td>13</td>
<td>49</td>
<td>3650</td>
<td>252</td>
<td>¼&quot; NPT(F)</td>
</tr>
<tr>
<td>39410</td>
<td>21</td>
<td>80</td>
<td>7250</td>
<td>500</td>
<td>½&quot; BSP(F)</td>
</tr>
<tr>
<td>39415</td>
<td>32</td>
<td>121</td>
<td>1750</td>
<td>120</td>
<td>½&quot; BSP(F)</td>
</tr>
<tr>
<td>39420</td>
<td>53</td>
<td>200</td>
<td>2900</td>
<td>200</td>
<td>¼&quot; BSP(F)</td>
</tr>
</tbody>
</table>

#### SHUT-OFF GUN, STAINLESS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MAXIMUM FLOW</th>
<th>MAXIMUM PRESSURE</th>
<th>PORTS</th>
<th>STYLE</th>
<th>TRIGGER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPM</td>
<td>LPM</td>
<td>PSI</td>
<td>BAR</td>
<td>INLET</td>
</tr>
<tr>
<td>36126</td>
<td>10</td>
<td>38</td>
<td>4000</td>
<td>275</td>
<td>¼&quot; NPT(F)</td>
</tr>
<tr>
<td>33600</td>
<td>10.5</td>
<td>40</td>
<td>5800</td>
<td>400</td>
<td>½&quot; NPT(F)</td>
</tr>
<tr>
<td>992641</td>
<td>10.5</td>
<td>40</td>
<td>14500</td>
<td>999</td>
<td>¼&quot; BSP(F)</td>
</tr>
</tbody>
</table>

#### WEEP GUN, BRASS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MAXIMUM FLOW</th>
<th>MAXIMUM PRESSURE</th>
<th>PORTS</th>
<th>STYLE</th>
<th>TRIGGER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPM</td>
<td>LPM</td>
<td>PSI</td>
<td>BAR</td>
<td>INLET</td>
</tr>
<tr>
<td>76168</td>
<td>8</td>
<td>30</td>
<td>4000</td>
<td>275</td>
<td>¼&quot; NPT(F)</td>
</tr>
<tr>
<td>35151</td>
<td>8</td>
<td>30</td>
<td>5000</td>
<td>345</td>
<td>¼&quot; NPT(F)</td>
</tr>
<tr>
<td>36141</td>
<td>10.5</td>
<td>40</td>
<td>5000</td>
<td>345</td>
<td>¼&quot; NPT(F)</td>
</tr>
</tbody>
</table>

#### DUMP GUN, BRASS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MAXIMUM FLOW</th>
<th>MAXIMUM PRESSURE</th>
<th>PORTS</th>
<th>LANCE LENGTH</th>
<th>TRIGGER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPM</td>
<td>LPM</td>
<td>PSI</td>
<td>LENGTH</td>
<td>SQUEEZE</td>
</tr>
<tr>
<td>32300</td>
<td>10</td>
<td>38</td>
<td>3000</td>
<td>16&quot;</td>
<td>Pressure Compensated</td>
</tr>
<tr>
<td>32301</td>
<td>10</td>
<td>38</td>
<td>3000</td>
<td>32&quot;</td>
<td>Pressure Compensated</td>
</tr>
<tr>
<td>39411</td>
<td>21</td>
<td>80</td>
<td>7250</td>
<td>50&quot;</td>
<td>Pressure Compensated</td>
</tr>
<tr>
<td>39422</td>
<td>21</td>
<td>80</td>
<td>7250</td>
<td>32&quot;</td>
<td>Pressure Compensated</td>
</tr>
<tr>
<td>39440</td>
<td>32</td>
<td>121</td>
<td>1750</td>
<td>32&quot;</td>
<td>Standard</td>
</tr>
</tbody>
</table>
Operator Controls

Lances

A variety of lance types, lengths and materials ready to install to any ¼” gun.

- Ventilated insulator for operator comfort and safety.
- Durable nozzle protector reducing nozzle and property damage.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MAXIMUM FLOW</th>
<th>MAXIMUM PRESSURE</th>
<th>LENGTH</th>
<th>PORTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPM</td>
<td>LPM</td>
<td>PSI</td>
<td>BAR</td>
</tr>
<tr>
<td>ZINC PLATED STRAIGHT TUBE WITH HAND GRIP</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>32264</td>
<td>10.5</td>
<td>40</td>
<td>3650</td>
<td>252</td>
</tr>
<tr>
<td>36267</td>
<td>10.5</td>
<td>40</td>
<td>3650</td>
<td>252</td>
</tr>
<tr>
<td>32268</td>
<td>10.5</td>
<td>40</td>
<td>3650</td>
<td>252</td>
</tr>
<tr>
<td>ZINC PLATED TUBE WITH VENTED GRIP AND NOZZLE PROTECTOR</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>31017</td>
<td>10.5</td>
<td>40</td>
<td>3650</td>
<td>252</td>
</tr>
<tr>
<td>33201*</td>
<td>10.5</td>
<td>40</td>
<td>3650</td>
<td>252</td>
</tr>
<tr>
<td>32036</td>
<td>10.5</td>
<td>40</td>
<td>3650</td>
<td>252</td>
</tr>
<tr>
<td>32031</td>
<td>10.5</td>
<td>40</td>
<td>3650</td>
<td>252</td>
</tr>
<tr>
<td>32032</td>
<td>10.5</td>
<td>40</td>
<td>3650</td>
<td>252</td>
</tr>
<tr>
<td>STAINLESS STEEL TUBE WITH VENTED GRIP AND NOZZLE PROTECTOR</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>31219</td>
<td>8</td>
<td>30</td>
<td>3100</td>
<td>350</td>
</tr>
<tr>
<td>31220</td>
<td>8</td>
<td>30</td>
<td>3100</td>
<td>350</td>
</tr>
<tr>
<td>32042</td>
<td>10.5</td>
<td>40</td>
<td>3650</td>
<td>252</td>
</tr>
<tr>
<td>33200*</td>
<td>10.5</td>
<td>40</td>
<td>3650</td>
<td>252</td>
</tr>
<tr>
<td>STAINLESS STEEL LANCE ASSEMBLY</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>32437</td>
<td>21</td>
<td>80</td>
<td>7250</td>
<td>500</td>
</tr>
<tr>
<td>32438</td>
<td>21</td>
<td>80</td>
<td>7250</td>
<td>500</td>
</tr>
<tr>
<td>39194</td>
<td>21</td>
<td>80</td>
<td>7250</td>
<td>500</td>
</tr>
<tr>
<td>32440**</td>
<td>32</td>
<td>121</td>
<td>1750</td>
<td>120</td>
</tr>
</tbody>
</table>

* Dual Lance  
** Steel Zinc Plated
Nozzles

Applicator/orifice defines rate and pattern of fluid.

- Easily mounts to a ¼” lance.
- Nozzle types available: change over, rotating and turbo.
- Durable ceramic nozzle/insert for greater resistance to wear.

### MODELS

<table>
<thead>
<tr>
<th>MODELS</th>
<th>MAXIMUM FLOW GPM</th>
<th>MAXIMUM PRESSURE BAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>32149</td>
<td>7</td>
<td>26</td>
</tr>
<tr>
<td></td>
<td>2600</td>
<td>3000</td>
</tr>
<tr>
<td>32149</td>
<td>7</td>
<td>26</td>
</tr>
<tr>
<td></td>
<td>2600</td>
<td>3000</td>
</tr>
</tbody>
</table>

### TURBO-NOZZLES

**3000 PSI MAX**

<table>
<thead>
<tr>
<th>MODELS</th>
<th>NOZZLE SIZE</th>
<th>FLOW RANGE GPM</th>
<th>PRESSURE RANGE PSI</th>
</tr>
</thead>
<tbody>
<tr>
<td>7265.20</td>
<td>2.0</td>
<td>1.1 – 1.7</td>
<td>83 – 207</td>
</tr>
<tr>
<td>7265.30</td>
<td>3.0</td>
<td>1.6 – 2.6</td>
<td>83 – 207</td>
</tr>
<tr>
<td>7265.35</td>
<td>3.5</td>
<td>1.9 – 3.0</td>
<td>83 – 207</td>
</tr>
<tr>
<td>7265.40</td>
<td>4.0</td>
<td>2.2 – 3.5</td>
<td>83 – 207</td>
</tr>
<tr>
<td>7265.45</td>
<td>4.5</td>
<td>2.4 – 3.9</td>
<td>83 – 207</td>
</tr>
<tr>
<td>7265.50</td>
<td>5.0</td>
<td>2.8 – 4.4</td>
<td>83 – 207</td>
</tr>
<tr>
<td>7265.55</td>
<td>5.5</td>
<td>3.0 – 4.8</td>
<td>83 – 207</td>
</tr>
<tr>
<td>7266.60</td>
<td>6.0</td>
<td>3.2 – 5.2</td>
<td>83 – 207</td>
</tr>
<tr>
<td>7266.65</td>
<td>6.5</td>
<td>3.6 – 5.7</td>
<td>83 – 207</td>
</tr>
</tbody>
</table>

### ROTATING NOZZLES

**3650 PSI MAX**

<table>
<thead>
<tr>
<th>MODELS</th>
<th>NOZZLE SIZE</th>
<th>FLOW RANGE GPM</th>
<th>PRESSURE RANGE PSI</th>
</tr>
</thead>
<tbody>
<tr>
<td>7625.30</td>
<td>3.0</td>
<td>1.6 – 2.9</td>
<td>1200 – 3650</td>
</tr>
<tr>
<td>7625.35</td>
<td>3.5</td>
<td>1.9 – 3.3</td>
<td>1200 – 3650</td>
</tr>
<tr>
<td>7625.40</td>
<td>4.0</td>
<td>2.2 – 3.8</td>
<td>1200 – 3650</td>
</tr>
<tr>
<td>7625.45</td>
<td>4.5</td>
<td>2.4 – 4.3</td>
<td>1200 – 3650</td>
</tr>
<tr>
<td>7625.50</td>
<td>5.0</td>
<td>2.8 – 4.8</td>
<td>1200 – 3650</td>
</tr>
<tr>
<td>7625.55</td>
<td>5.5</td>
<td>3.0 – 5.2</td>
<td>1200 – 3650</td>
</tr>
<tr>
<td>7625.60</td>
<td>6.0</td>
<td>3.2 – 5.7</td>
<td>1200 – 3650</td>
</tr>
<tr>
<td>7625.65</td>
<td>6.5</td>
<td>3.6 – 6.2</td>
<td>1200 – 3650</td>
</tr>
<tr>
<td>7625.70</td>
<td>7.0</td>
<td>3.8 – 6.7</td>
<td>1200 – 3650</td>
</tr>
<tr>
<td>7625.80</td>
<td>8.0</td>
<td>4.4 – 7.7</td>
<td>1200 – 3650</td>
</tr>
</tbody>
</table>

### ROTATING NOZZLES

**5100 PSI MAX**

<table>
<thead>
<tr>
<th>MODELS</th>
<th>NOZZLE SIZE</th>
<th>FLOW RANGE GPM</th>
<th>PRESSURE RANGE PSI</th>
</tr>
</thead>
<tbody>
<tr>
<td>7632.30</td>
<td>3.0</td>
<td>2.4 – 3.4</td>
<td>2600 – 5100</td>
</tr>
<tr>
<td>7632.35</td>
<td>3.5</td>
<td>2.8 – 3.9</td>
<td>2600 – 5100</td>
</tr>
<tr>
<td>7632.40</td>
<td>4.0</td>
<td>3.2 – 4.5</td>
<td>2600 – 5100</td>
</tr>
<tr>
<td>7632.45</td>
<td>4.5</td>
<td>3.6 – 5.1</td>
<td>2600 – 5100</td>
</tr>
<tr>
<td>7632.50</td>
<td>5.0</td>
<td>4.0 – 5.6</td>
<td>2600 – 5100</td>
</tr>
<tr>
<td>7632.55</td>
<td>5.5</td>
<td>4.4 – 6.2</td>
<td>2600 – 5100</td>
</tr>
<tr>
<td>7632.60</td>
<td>6.0</td>
<td>4.8 – 6.7</td>
<td>2600 – 5100</td>
</tr>
<tr>
<td>7632.65</td>
<td>6.5</td>
<td>5.2 – 7.3</td>
<td>2600 – 5100</td>
</tr>
<tr>
<td>7632.70</td>
<td>7.0</td>
<td>5.6 – 7.9</td>
<td>2600 – 5100</td>
</tr>
<tr>
<td>7632.80</td>
<td>8.0</td>
<td>6.4 – 9.1</td>
<td>2600 – 5100</td>
</tr>
</tbody>
</table>

---

Need selection help?

If psi and nozzle gpm is known, then nozzle number can be calculated as follows:

\[
\text{Nozzle number} = \frac{\text{gpm}}{\sqrt{\frac{4000}{\text{psi}}}}
\]

If psi and nozzle number is known, then gpm can be calculated as follows:

\[
\text{gpm} = \text{nozzle number} \times \sqrt{\frac{4000}{\text{psi}}}
\]

If gpm and nozzle number is known, then psi can be calculated as follows:

\[
\text{psi} = \left( \frac{\text{gpm}}{\text{nozzle number}} \right)^2 \times 4000
\]

A nozzle selection chart can also be found online at catpumps.com in the Literature section under Reference Documents.
## Operator Controls

### Vari-Nozzles

Used with downstream chemical injector to apply chemical at low pressure.
- Adjusts spray angle from 0° to 60° for cleaning flexibility.

<table>
<thead>
<tr>
<th>MODELS</th>
<th>NOZZLE SIZE</th>
<th>FLOW RANGE GPM</th>
<th>PRESSURE RANGE PSI</th>
<th>PORT</th>
</tr>
</thead>
<tbody>
<tr>
<td>7920</td>
<td>2.0</td>
<td>1.0–1.9</td>
<td>3.8–7.2</td>
<td>¼” BSP(F)</td>
</tr>
<tr>
<td>7930</td>
<td>3.0</td>
<td>1.5–2.9</td>
<td>5.7–10.8</td>
<td>¼” BSP(F)</td>
</tr>
<tr>
<td>7935</td>
<td>3.5</td>
<td>1.8–3.3</td>
<td>6.6–12.6</td>
<td>¼” BSP(F)</td>
</tr>
<tr>
<td>7940</td>
<td>4.0</td>
<td>2.0–3.8</td>
<td>7.8–14.4</td>
<td>¼” BSP(F)</td>
</tr>
<tr>
<td>7945</td>
<td>4.5</td>
<td>2.2–4.3</td>
<td>8.3–16.3</td>
<td>¼” BSP(F)</td>
</tr>
<tr>
<td>7950</td>
<td>5.0</td>
<td>2.5–4.7</td>
<td>9.5–17.8</td>
<td>¼” BSP(F)</td>
</tr>
<tr>
<td>7955</td>
<td>5.5</td>
<td>2.8–5.2</td>
<td>10.6–19.7</td>
<td>¼” BSP(F)</td>
</tr>
<tr>
<td>7960</td>
<td>6.0</td>
<td>3.0–5.6</td>
<td>11.4–21.2</td>
<td>¼” BSP(F)</td>
</tr>
<tr>
<td>7970</td>
<td>7.0</td>
<td>3.5–6.6</td>
<td>13.2–25.0</td>
<td>¼” BSP(F)</td>
</tr>
</tbody>
</table>

### Foamers

Draws chemical and air to create thick foam.
- Lance and chemical bottle can be fitted to a standard 1/4” gun.
- Convenient chemical injector adjustment knob or handle for adjusting chemical draw.
- Stainless Steel orifice and FPM O-rings for chemical compatibility.

<table>
<thead>
<tr>
<th>MODELS</th>
<th>FLOW RANGE GPM</th>
<th>PRESSURE RANGE PSI</th>
<th>TYPE</th>
<th>PORT</th>
</tr>
</thead>
<tbody>
<tr>
<td>32017</td>
<td>2–4</td>
<td>7.6–15.2</td>
<td>w/o Bottle</td>
<td>¼” BSP(F)</td>
</tr>
<tr>
<td>39234</td>
<td>2–4</td>
<td>7.6–15.2</td>
<td>w/ 1-Liter Bottle</td>
<td>¼” BSP(F)</td>
</tr>
<tr>
<td>39196</td>
<td>2–4</td>
<td>7.6–15.2</td>
<td>w/ 2-Liter Bottle</td>
<td>¼” BSP(F)</td>
</tr>
</tbody>
</table>

### Chemical Injectors

Provides and regulates chemicals into pump stream.
- Mount directly to unloader or in-line on discharge plumbing.
- Must be used with low-pressure nozzle to activate chemical draw.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>ORIFICE SIZE (MM)</th>
<th>FLOW RANGE GPM</th>
<th>MAXIMUM PRESSURE PSI</th>
<th>PORTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>7182</td>
<td>1.8 mm</td>
<td>2–4</td>
<td>3500</td>
<td>½” NPT(M) ½” NPT(M)</td>
</tr>
<tr>
<td>7192</td>
<td>1.8 mm</td>
<td>2–4</td>
<td>3500</td>
<td>M18 x 1.0 ½” NPT(M)</td>
</tr>
<tr>
<td>7183</td>
<td>2.1 mm</td>
<td>3–5</td>
<td>3500</td>
<td>M18 x 1.0 ½” NPT(M)</td>
</tr>
<tr>
<td>7193</td>
<td>2.1 mm</td>
<td>3–5</td>
<td>3500</td>
<td>M18 x 1.0 ½” NPT(M)</td>
</tr>
<tr>
<td>7184</td>
<td>2.3 mm</td>
<td>3–6</td>
<td>3500</td>
<td>M18 x 1.0 ½” NPT(M)</td>
</tr>
<tr>
<td>7194</td>
<td>2.3 mm</td>
<td>3–6</td>
<td>3500</td>
<td>M18 x 1.0 ½” NPT(M)</td>
</tr>
<tr>
<td>7224</td>
<td>2.3 mm</td>
<td>3–6</td>
<td>3500</td>
<td>M22 x 1.5 ½” NPT(M)</td>
</tr>
<tr>
<td>7231</td>
<td>1.8 mm</td>
<td>2.0</td>
<td>3145</td>
<td>M18 x 1.0 ½” NPT(M)</td>
</tr>
<tr>
<td>7242</td>
<td>2.0 mm</td>
<td>2.9</td>
<td>129</td>
<td>M18 x 1.0 ½” NPT(M)</td>
</tr>
<tr>
<td>7232</td>
<td>2.1 mm</td>
<td>3.0</td>
<td>114</td>
<td>M18 x 1.0 ½” NPT(M)</td>
</tr>
<tr>
<td>7332</td>
<td>2.1 mm</td>
<td>3–4</td>
<td>11.4–15</td>
<td>M18 x 1.0 ½” NPT(M)</td>
</tr>
<tr>
<td>7243</td>
<td>2.1 mm</td>
<td>3–5</td>
<td>11.4–19</td>
<td>M22 x 1.5 ½” NPT(M)</td>
</tr>
<tr>
<td>7367</td>
<td>2.1 mm</td>
<td>3–5</td>
<td>11.4–19</td>
<td>M20 x 1.0 ½” NPT(M)</td>
</tr>
<tr>
<td>7722</td>
<td>1.8 mm</td>
<td>2–4</td>
<td>3500</td>
<td>½” NPT(M) ½” NPT(M)</td>
</tr>
<tr>
<td>7723</td>
<td>2.1 mm</td>
<td>3–5</td>
<td>3500</td>
<td>½” NPT(M) ½” NPT(M)</td>
</tr>
<tr>
<td>7724</td>
<td>2.3 mm</td>
<td>3–6</td>
<td>3500</td>
<td>½” NPT(M) ½” NPT(M)</td>
</tr>
</tbody>
</table>

For more information, contact us at (763) 780-5440 | info@catpumps.com | www.catpumps.com
Operator Controls

Pulse Pumps

Harsh chemicals can damage the inner components of a high-pressure pump if run through the main pumping chamber. Pulse pumps from Cat Pumps are a cost-effective solution to bypass the primary pump, injecting these solutions down-stream and preventing premature wear on parts. This allows users to run standard high-pressure pumps instead of special, more costly stainless steel pumps with chemical-resistant seals.

The same proven quality and attention to detail that customers have come to expect from Cat Pumps is built into every pulse pump chemical injector. With pressures up to 207 bar (3,000 psi) and injection rates up to 12 gph, these pulse pumps can be used on a wide variety of new or existing systems. The installation process is so simple that pumps can be retrofitted quickly in the field.

Features
- Long lasting and simple to service
- Can be used with a wide range of high-pressure pumps, from small direct-drive to large belt-driven pumps
- Easy to retrofit in the field
- Accurate and easy-to-control injection rates

- Two pulse pumps can be used on one high-pressure pump to double chemical injection rate or use two separate chemicals
- Chemical pump can be turned on and off independently from main system

Typical Applications
- Sanitizing / Disinfecting
- Pressure Wash
- Truck Mount
- Vehicle and Equipment Wash
- Surface Cleaning

High-pressure injection downstream from the system pump.
- Eliminates harsh chemicals passing through pump.
- Simple field retrofit of existing pumps.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>FLOW RANGE</th>
<th>PRESSURE RANGE</th>
<th>PORTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPH</td>
<td>PSI BAR</td>
<td></td>
</tr>
<tr>
<td>6340, 6341</td>
<td>1.0–10.5</td>
<td>6.9–138</td>
<td>1/8” NPT(F), 1/8” NPT(F)</td>
</tr>
<tr>
<td>6350, 6351</td>
<td>1.0–12.0</td>
<td>35–207</td>
<td>1/4” Hose Barb, 1/4” NPT(F)</td>
</tr>
</tbody>
</table>

Note: Contact Cat Pumps for selection of Adapter Assembly to fit your pump model.

6340/6341 MAXIMUM INJECTION RATE

<table>
<thead>
<tr>
<th>PUMP RPM</th>
<th>INJECTION RATE</th>
<th>PUMP RPM</th>
<th>INJECTION RATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000</td>
<td>5.5 gph</td>
<td>1500</td>
<td>10.0 gph</td>
</tr>
<tr>
<td>1100</td>
<td>7.0 gph</td>
<td>1600</td>
<td>10.5 gph</td>
</tr>
<tr>
<td>1200</td>
<td>8.0 gph</td>
<td>1700</td>
<td>10.5 gph</td>
</tr>
<tr>
<td>1300</td>
<td>9.0 gph</td>
<td>1800</td>
<td>10.5 gph</td>
</tr>
<tr>
<td>1400</td>
<td>9.5 gph</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

6350/6351 MAXIMUM INJECTION RATE

<table>
<thead>
<tr>
<th>PUMP RPM</th>
<th>INJECTION RATE</th>
<th>PUMP RPM</th>
<th>INJECTION RATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>500</td>
<td>5.0 gph</td>
<td>1000</td>
<td>10.0 gph</td>
</tr>
<tr>
<td>600</td>
<td>6.0 gph</td>
<td>1100</td>
<td>11.0 gph</td>
</tr>
<tr>
<td>700</td>
<td>7.0 gph</td>
<td>1200</td>
<td>12.0 gph</td>
</tr>
<tr>
<td>800</td>
<td>8.0 gph</td>
<td>1800</td>
<td>12.0 gph</td>
</tr>
<tr>
<td>900</td>
<td>9.0 gph</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

INTERNAL DIAPHRAGM MATERIAL

<table>
<thead>
<tr>
<th>6340</th>
<th>6341</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPDM</td>
<td>FPM</td>
</tr>
</tbody>
</table>

INTERNAL O-RING & VALVE MATERIAL

<table>
<thead>
<tr>
<th>6350</th>
<th>6351</th>
</tr>
</thead>
<tbody>
<tr>
<td>FPM O-Ring</td>
<td>FPM O-Ring</td>
</tr>
<tr>
<td>Acetal Inlet Valve</td>
<td>Stainless Steel Inlet Valve</td>
</tr>
</tbody>
</table>
Lubrication Accessories

Crankcase Oil

Genuine Cat Pumps crankcase oil provides maximum life and performance.
- Custom blend, premium grade, petroleum-based hydraulic oil for all Cat Pumps.
- Anti-wear additives protects metal-to-metal drive surfaces, extending drive life.
- High oxidative and chemical stability resists deposit formations and provides consistent fluid performance.
- Premium anti-corrosion additives offer protection in the most demanding operating environments.

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>CAPACITY</th>
<th>PUMP MODELS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISO 68</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6107</td>
<td>Bottle – 21 ounces</td>
<td>All piston and plunger pumps</td>
</tr>
<tr>
<td>6100</td>
<td>Case – (12) 21 ounce bottles</td>
<td></td>
</tr>
<tr>
<td>6102</td>
<td>Jug – 2.5 gallons</td>
<td></td>
</tr>
<tr>
<td>6105</td>
<td>Twin pack – (2) 2.5 gallons</td>
<td></td>
</tr>
<tr>
<td>6109</td>
<td>Drum – 30 gallons</td>
<td></td>
</tr>
<tr>
<td>997657</td>
<td>Jug – 1 gallon</td>
<td>All piston and plunger pumps – Food Grade</td>
</tr>
<tr>
<td>997638</td>
<td>Case – (4) 1 gallons</td>
<td></td>
</tr>
<tr>
<td>ISO 100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6115</td>
<td>Pail – 5 gallons</td>
<td>152R060/C, 152R080/C, 152R100/C, 157R060/080, Specialty Pumps</td>
</tr>
<tr>
<td>6116</td>
<td>Drum – 16 gallons</td>
<td></td>
</tr>
<tr>
<td>6121</td>
<td>Case – (4) 4 liters</td>
<td></td>
</tr>
</tbody>
</table>

OILERS – GRAVITY FEED WITH 1/4” NPT(M) THREADS

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>CAPACITY</th>
<th>PUMP MODELS</th>
</tr>
</thead>
<tbody>
<tr>
<td>30278</td>
<td>1 ounce</td>
<td>2520/C, 2510/11, 2530–2537, Except 2831/K, 35/38 Series, Except 3541/C, 3545, 3841/K</td>
</tr>
<tr>
<td>30429</td>
<td>10 ounces</td>
<td>6020, 6040, 6760–6777, Except 6747, 6861/K, Except 6801/K–6841/K</td>
</tr>
</tbody>
</table>

Gear Lube

Maximize life with genuine Cat Pumps Gear Lube.
- Low friction and operating temperature for low wear, extending gear box life.
- Anti-wear, anti-rust, anti-corrosion formulation to extend gearbox life.
- Excellent oxidation and thermal stability extends fluid life.
- Used on all Cat Pumps gearbox pumps except 3CP1120G, 3CP1211G and 3CP1221G. (crankcase oil is used instead of Gear Lube).

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>CAPACITY</th>
<th>PUMP MODELS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6110</td>
<td>Bottle – 16 ounces</td>
<td>45G1, 56G1, 56HS5G1, 60G1, 700G1, 740G1, 760G1, 781G1, SCP3105CSSG1, SCP3120CSSG1, SCP3160CSSG1, SCP513CSSG1, SCP5140CSSG1, SCP5140CSSG1/18, SCP6120CSSG1, SCP6180CSSG1, SCP6190G1, SCPQ6221G1, SCPQ6241CSSG1, SCPQ6251G1, 7CP6170G1, 7CP6110CSSG1, 7CP6111CSSG1, 7CP6190G1</td>
</tr>
<tr>
<td>6111</td>
<td>Case, (12) 16 ounce bottles</td>
<td></td>
</tr>
</tbody>
</table>
Anti-Seize and Sealants

Sealant and anti-seize ensure proper pump operation.
- Anti-Seize protects metal-to-metal surfaces from galling, seizing, friction and wear.
- Sealant is used to fill between mating surfaces within the manifold.

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>CAPACITY</th>
<th>PUMP MODELS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTI-SEIZE AND SEALANTS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6106</td>
<td>2 milliliters</td>
<td>Anti-seize for pump shafts and keys – all plunger pumps</td>
</tr>
<tr>
<td>6139</td>
<td>8 ounces</td>
<td>Anti-seize for threads – all stainless steel plunger pumps</td>
</tr>
<tr>
<td>6124</td>
<td>3 ounces</td>
<td>Liquid gasket for O-rings, seals – all plunger pumps</td>
</tr>
</tbody>
</table>

Loctite is a registered trademark of Henkel Corporation.

Pump Protector

The Ultimate Protection for Long-Term Storage of Pressure Washer Pumps.
The best solution: use specially formulated Pump Protector from Cat Pumps to protect your pressure washer pump from freezing, corrosion, mineral deposits and premature wear. Recommended for use with all pressure washers, Pump Protector adds lubrication to pistons, valves and seals to prevent sticking.

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>CAPACITY</th>
<th>PUMP MODELS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUMP PROTECTOR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6208</td>
<td>Case–(6) 12 oz bottles</td>
<td>All pressure washer pump models</td>
</tr>
</tbody>
</table>

How to Order: Order part number 6208 for a case of six bottles; 12 fluid ounces (355 ml) each

CHECK OUT

Cat Pumps Pressure Washer Pump Protector
There is no better way to protect your pump than using Pump Protector.
www.youtube.com/CatPumps1968
Pump Accessories

Oil Drain/Level Indicator Kits
Easily monitor crankcase oil level at-a-glance and improve pump maintenance.

- Conveniently monitor oil when existing bubble gauge is obscured.
- Oil drain kit can be mounted at desired location for easy maintenance.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>USED ON PUMP MODELS</th>
</tr>
</thead>
<tbody>
<tr>
<td>76144</td>
<td>Piston pumps: 2520 through 6041 Plunger pumps: 2510 thru 6861K. EXCEPT 35 and 38 Frame series</td>
</tr>
</tbody>
</table>

Oil Level Indicator w/Drain Kit

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>MATERIAL</th>
<th>PUMP MODELS</th>
</tr>
</thead>
<tbody>
<tr>
<td>76334</td>
<td>25130 STCP</td>
<td>230–277, 280, 290, 333, 430</td>
<td></td>
</tr>
<tr>
<td>76334</td>
<td>26516 STCP</td>
<td>2520/C, 2510/11, 2530–2537, 2560, 2565, 2831/K</td>
<td></td>
</tr>
<tr>
<td>29445</td>
<td>AL 6020, 6040, 6747, 6760–6775, 6801/K, 6831/K, 6861/K, 67070, 67102 Included with pump</td>
<td></td>
<td></td>
</tr>
<tr>
<td>30764*</td>
<td>NY 650, 660, 1050, 1530, 1540E, 1560, 1570, 1580 (6 mm Holes)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>30764**</td>
<td>NY 661C, 661D, 1051, 1051C, 1051D, 1057, 1531, 1541, 1541C (6 mm Holes)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>855046*</td>
<td>NY 650, 660, 1050, 1530, 1540E, 1560, 1570, 1580 Included with pump (8 mm Holes)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>855047**</td>
<td>NY 661C, 661D, 1051, 1051C, 1051D, 1057, 1531, 1541, 1541C Included with pump (8 mm Holes)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>26516:15FR STCP</td>
<td>1050, 44101, 1051, 44101, 1531, 44101, 1541, 44101 Included with pump (8 mm Holes)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>43339</td>
<td>STCP 621, 623, 820, 821, 1010, 1011</td>
<td></td>
<td></td>
</tr>
<tr>
<td>43256</td>
<td>STCP 530, 550</td>
<td></td>
<td></td>
</tr>
<tr>
<td>118672</td>
<td>STCP 310–350S, 311–357, 3CP1120–1140, 3CP1221–1241, 3CP2120W/2150W, 3CP3120, 3CP6120–6190, 3CPQ6221/6251</td>
<td></td>
<td></td>
</tr>
<tr>
<td>120220</td>
<td>STCP 7CP6170</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* See Tech Bulletin 128 **Nylon protectors w/ two stainless screws.

DRAIN KITS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>34314</td>
<td>127409 PE</td>
<td>3CP, 5CP and 66DX Series</td>
</tr>
<tr>
<td>34334</td>
<td>549726 PE</td>
<td>4DNX and 4DX Series</td>
</tr>
<tr>
<td>990394</td>
<td>34314 PE All piston and plunger pumps and 66DX, except 35 and 38 Frame series</td>
<td></td>
</tr>
<tr>
<td>990394</td>
<td>828710 PE All piston and plunger pumps and 66DX, except 35 and 38 Frame series</td>
<td></td>
</tr>
</tbody>
</table>

Protectors – Shaft and Oil Cap

Safety devices to eliminate exposure to rotating pump shaft and to minimize water leakage into pump.

- Shaft protector not included with pump unless otherwise noted.
- Oil cap protector not included with pump except 35/38 series pumps.

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>MATERIAL</th>
<th>PUMP MODELS</th>
</tr>
</thead>
<tbody>
<tr>
<td>25130 STCP</td>
<td>AL 6020, 6040, 6747, 6760–6775, 6801/K, 6831/K, 6861/K, 67070, 67102 Included with pump</td>
<td></td>
</tr>
<tr>
<td>26516 STCP</td>
<td>650, 660, 1050, 1530, 1540E, 1560, 1570, 1580 (6 mm Holes)</td>
<td></td>
</tr>
<tr>
<td>29445 AL 6020, 6040, 6747, 6760–6775, 6801/K, 6831/K, 6861/K, 67070, 67102 Included with pump</td>
<td></td>
<td></td>
</tr>
<tr>
<td>30764* NY 650, 660, 1050, 1530, 1540E, 1560, 1570, 1580 Included with pump (8 mm Holes)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>30764** NY 661C, 661D, 1051, 1051C, 1051D, 1057, 1531, 1541, 1541C Included with pump (8 mm Holes)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>855046* NY 650, 660, 1050, 1530, 1540E, 1560, 1570, 1580 Included with pump (8 mm Holes)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>855047** NY 661C, 661D, 1051, 1051C, 1051D, 1057, 1531, 1541, 1541C Included with pump (8 mm Holes)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>26516:15FR STCP 1050, 44101, 1051, 44101, 1531, 44101, 1541, 44101 Included with pump (8 mm Holes)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>43339 STCP 621, 623, 820, 821, 1010, 1011</td>
<td></td>
<td></td>
</tr>
<tr>
<td>43256 STCP 530, 550</td>
<td></td>
<td></td>
</tr>
<tr>
<td>118672 STCP 310–350S, 311–357, 3CP1120–1140, 3CP1221–1241, 3CP2120W/2150W, 3CP3120, 3CP6120–6190, 3CPQ6221/6251</td>
<td></td>
<td></td>
</tr>
<tr>
<td>120220 STCP 7CP6170</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* See Tech Bulletin 128 **Nylon protectors w/ two stainless screws.

OIL CAP PROTECTORS

Oil fill cap protector prevents water from entering crankcase. Not included with pump except on 4DX, 35 and 38 series pumps.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>12749</td>
<td>PE 3CP, 5CP and 66DX Series</td>
</tr>
<tr>
<td>549726</td>
<td>PE 4DNX and 4DX Series</td>
</tr>
<tr>
<td>828710</td>
<td>PE All piston and plunger pumps, except the 1CX, 2SF, 2SFX, 3CP, 4DX, 4DNX, 4SF, 4SP, 4SPX, 5CP, 5SP, 66DX, 67DX</td>
</tr>
</tbody>
</table>

Material codes: AL = Aluminum, NY = Nylon, PE = Polyethylene, STCP = Steel/Chrome Plated
### Keys – Direct Drive

Provides alignment and secures pump shaft to motor shaft or hub/pulley.

- Keys supplied with Cat Pumps.
- Keys supplied with gearboxes and flexible couplings.

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>SIZE</th>
<th>PUMP MODELS</th>
</tr>
</thead>
<tbody>
<tr>
<td>30050</td>
<td>⅛&quot; x ⅛&quot; x 1 ¼&quot;</td>
<td>2SF Electric, Gas and Stainless Steel Series</td>
</tr>
<tr>
<td>30088</td>
<td>1/4&quot; x 1/4&quot; x 1 1/4&quot;</td>
<td>Flexible Couplings: 8220, 8225, 8230</td>
</tr>
<tr>
<td>34050</td>
<td>⅛&quot; x ⅛&quot; x 27mm</td>
<td>4DX25GS1/27GS1, 4DX Series, 4SP Series</td>
</tr>
<tr>
<td>44294</td>
<td>⅜&quot; x ⅜&quot; x 1 ⅛&quot;</td>
<td>Gearboxes (engine side): 8010, 8075</td>
</tr>
<tr>
<td>44459</td>
<td>8 x 7 x 24mm</td>
<td>Gearboxes (pump side): 8071, 8081</td>
</tr>
<tr>
<td>45217</td>
<td>⅜&quot; x ⅜&quot; x 64mm</td>
<td>66DX30G1/40G1/50G1/60G1</td>
</tr>
<tr>
<td>49411</td>
<td>⅜&quot; x ⅜&quot; x 59mm</td>
<td>67DX39G1</td>
</tr>
<tr>
<td>57352</td>
<td>5 x 5 x 21mm</td>
<td>Gearboxes (pump side): 8010, 8075</td>
</tr>
<tr>
<td>101814</td>
<td>6 x 6 x 27mm</td>
<td>Gearboxes (pump side): 8065, 8068, 8076, 8077</td>
</tr>
<tr>
<td>134760</td>
<td>¼&quot; x ¼&quot; x 45mm</td>
<td>5SP Series</td>
</tr>
<tr>
<td>831844</td>
<td>¼&quot; x ¼&quot; x 56mm</td>
<td>4SPX2G1</td>
</tr>
</tbody>
</table>

### Keys – Belt Drive

Provides alignment and secures pump shaft to hub/pulley.

- Keys not supplied with pump.

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>SIZE</th>
<th>PUMP MODELS</th>
</tr>
</thead>
<tbody>
<tr>
<td>30047</td>
<td>5 x 5 x 24</td>
<td>280, 290, 333, 430, 230–277, SCP1120–1140, 1221–1241</td>
</tr>
<tr>
<td>30067</td>
<td>8 x 7.25 x 25</td>
<td>56, 530, 550, 700, 740, 760, 781/K, 784, 786, 650–661D, 1050–1057, 1530/31, 1540E/41, 1810/K, 7CP610/100CS–7CP6171CS</td>
</tr>
<tr>
<td>30089</td>
<td>5 x 5 x 36.5</td>
<td>Clutch models: 34060/63, 34964/605</td>
</tr>
<tr>
<td>35034</td>
<td>6 x 8 x 26 (Step)</td>
<td>Clutch model: 34299</td>
</tr>
<tr>
<td>43048</td>
<td>14 x 9 x 90</td>
<td>6020, 6040, 6747, 6760–6775, 6801–6861K, 67070, 67102/C</td>
</tr>
<tr>
<td>50146</td>
<td>7 x 7 x 40</td>
<td>621, 623, 820, 821, 1010, 1011, 1951</td>
</tr>
<tr>
<td>890601</td>
<td>28 x 170 (Step)</td>
<td>152RO60/C, 152RO80/C, 152RO100/C, 157RO60, 157RO80</td>
</tr>
<tr>
<td>890602</td>
<td>28 x 16 x 170</td>
<td>152RO60/C, 152RO80/C, 152RO100/C, 157RO60, 157RO80</td>
</tr>
<tr>
<td>990036</td>
<td>8 x 7 x 40</td>
<td>1530/31, 1540E41/41, 1560, 1570, 1580, 2510/11, 2520/C, 2530–2537, 2560, 2565, 2831/K</td>
</tr>
<tr>
<td>990069</td>
<td>8 x 6.35 x 40</td>
<td>Clutch model: 34563</td>
</tr>
<tr>
<td>991036</td>
<td>8 x 7 x 36</td>
<td>Clutch models: 34628, 34630</td>
</tr>
</tbody>
</table>
### Rail, Direct Mount and Complete Mounting Assemblies

Mount pump onto a secure, horizontal base with either rail assemblies or direct-mount assemblies.

- Rail assembly, direct mount assembly or complete mounting assembly not included with pump unless otherwise noted.
- Use direct mount assembly when mounting block or flat base is used or pulley extends over edge of base.

### PART NUMBER | PUMP MODELS
--- | ---
**RAIL ASSEMBLIES – STEEL/ZINC PLATED/STAINLESS STEEL**
126604 | 6020, 6040, 6747, 6760–6775, 6801/K, 6811/K, 6821/K, 6831/K
30612 | 280, 290, 230–277, 3CP1120–1140, 3CP1221–1241, 3CP1211CS
30614 | 2520/2520C, 2510/11, 2530–2537, 2560, 2565, 2831/K
30645 | 530, 550, 45, 56, 60, 700, 740, 760, 781/K, 784, 786
990550 | 650, 660–661D, 1050, 1051, 1057, 1530, 1531, 1540E, 1541, 1560, 1570, 1580, 1730, 1810/K
**DIRECT MOUNT ASSEMBLIES – STEEL/ZINC PLATED**
34018 | 3520/C, 3535, 3545, 3560
**MOUNTING ASSEMBLIES** (INCLUDES: RAILS, KEY, PULLEY/HUB AND SHAFT PROTECTOR)
30641 | 3CP1120–1140, 3CP1221–1241
30651 | 280, 290, 230–277
30652 | 333, 430
30653 | 623–1010
30660 | 530, 550, 700, 740, 760, 781/K, 784, 786, 56, 60
30661 | 650–661D, 1050–1057, 1530/31, 1540E/41, 1560, 1810/K

* 304 stainless steel ** See Tech Bulletin 078
NEMA Mounting Components

Bell Housing and Flexible Coupling

Compact direct mounting to hydraulic or electric motors reducing space requirements.

- Coupling assembly includes metric and standard coupling halves, spyder and keys.
- Special urethane flexible spyder designed for extended life with high temperature and high rpm.
- Used with standard NEMA electric motors.

NEMA Bell Housing Assemblies

<table>
<thead>
<tr>
<th>PUMP SERIES</th>
<th>MODELS</th>
<th>MOTOR FRAME</th>
<th>BELL HOUSING ASSY</th>
</tr>
</thead>
<tbody>
<tr>
<td>3CP</td>
<td>All 3CP Models</td>
<td>56C–145TC</td>
<td>76056.3CP</td>
</tr>
<tr>
<td></td>
<td></td>
<td>182/184TC</td>
<td>76184.3CP</td>
</tr>
<tr>
<td></td>
<td></td>
<td>213/215TC</td>
<td>76215.3CP</td>
</tr>
<tr>
<td></td>
<td></td>
<td>182/184TC</td>
<td>76184.3FR</td>
</tr>
<tr>
<td></td>
<td></td>
<td>213/215TC</td>
<td>76215.3FR</td>
</tr>
<tr>
<td>5CP</td>
<td>All 5CP Models</td>
<td>56C–145TC</td>
<td>76056.5CP</td>
</tr>
<tr>
<td></td>
<td></td>
<td>182/184TC</td>
<td>76184.5CP</td>
</tr>
<tr>
<td></td>
<td></td>
<td>213/215TC</td>
<td>76215.5CP</td>
</tr>
<tr>
<td></td>
<td></td>
<td>254/256TC</td>
<td>76256.5CP</td>
</tr>
<tr>
<td>5FR</td>
<td>340, 341, 347, 350, 351, 357</td>
<td>56C–145TC</td>
<td>76056.5FR</td>
</tr>
<tr>
<td></td>
<td></td>
<td>182/184TC</td>
<td>76184.5FR</td>
</tr>
<tr>
<td></td>
<td></td>
<td>213/215TC</td>
<td>76215.5FR</td>
</tr>
<tr>
<td></td>
<td></td>
<td>254/256TC</td>
<td>76256.5FR</td>
</tr>
<tr>
<td>7CP</td>
<td>All 7CP Models</td>
<td>56C–145TC</td>
<td>76056.7CP</td>
</tr>
<tr>
<td></td>
<td></td>
<td>182/184TC</td>
<td>76184.7CP</td>
</tr>
<tr>
<td></td>
<td></td>
<td>213/215TC</td>
<td>76215.7CP</td>
</tr>
<tr>
<td></td>
<td></td>
<td>254/256TC</td>
<td>76256.7CP</td>
</tr>
<tr>
<td>7FR/8FR</td>
<td>56–60, 700–760, 781–786</td>
<td>182/184TC</td>
<td>76184.7FR</td>
</tr>
<tr>
<td></td>
<td></td>
<td>213/215TC</td>
<td>76215.7FR</td>
</tr>
<tr>
<td></td>
<td></td>
<td>254/256TC</td>
<td>76256.7FR</td>
</tr>
<tr>
<td></td>
<td></td>
<td>284/286TC</td>
<td>76286.7FR</td>
</tr>
<tr>
<td>15 FR/18 FR</td>
<td>All 15 &amp; 18 FR models</td>
<td>213/215TC</td>
<td>76215.15FR</td>
</tr>
<tr>
<td></td>
<td></td>
<td>254/256TC</td>
<td>76256.15FR</td>
</tr>
<tr>
<td></td>
<td></td>
<td>284/286TC</td>
<td>76286.15FR</td>
</tr>
</tbody>
</table>

* See page 48 for 1180 RPM motor options for some 15 FR pumps.

NEMA Flexible Coupler Assemblies

<table>
<thead>
<tr>
<th>PUMP SERIES</th>
<th>MOTOR FRAME</th>
<th>FLEX COUPLER ASSY</th>
<th>SHFT TO SHFT</th>
<th>TORQUE RATING FT·LB</th>
</tr>
</thead>
<tbody>
<tr>
<td>3CP &amp; 3FR</td>
<td>56C</td>
<td>8215</td>
<td>16.5mm x 1/4&quot;</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>145TC</td>
<td>8210</td>
<td>16.5mm x 1/4&quot;</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>182/184TC</td>
<td>8220</td>
<td>16.5mm x 1 1/4&quot;</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>182/184TC</td>
<td>8225</td>
<td>16.5mm x 1 1/4&quot;</td>
<td>74</td>
</tr>
<tr>
<td></td>
<td>213/215TC</td>
<td>8270</td>
<td>16.5mm x 1 1/4&quot;</td>
<td>74</td>
</tr>
<tr>
<td>5CP &amp; 5FR</td>
<td>56C</td>
<td>8261</td>
<td>20mm x 1/4&quot;</td>
<td>74</td>
</tr>
<tr>
<td></td>
<td>145TC</td>
<td>8260</td>
<td>20mm x 1 1/2&quot;</td>
<td>74</td>
</tr>
<tr>
<td></td>
<td>182/184TC</td>
<td>8230</td>
<td>20mm x 1 1/2&quot;</td>
<td>74</td>
</tr>
<tr>
<td></td>
<td>213/215TC</td>
<td>8275</td>
<td>20mm x 1 1/2&quot;</td>
<td>92</td>
</tr>
<tr>
<td></td>
<td>245/256TC</td>
<td>8217</td>
<td>20mm x 1 1/2&quot;</td>
<td>92</td>
</tr>
<tr>
<td>7CP &amp; 7FR</td>
<td>56C/145TC</td>
<td>8218</td>
<td>24mm x 1/4&quot;</td>
<td>74</td>
</tr>
<tr>
<td></td>
<td>182/184TC</td>
<td>8370</td>
<td>24mm x 1 1/2&quot;</td>
<td>74</td>
</tr>
<tr>
<td></td>
<td>213/215TC</td>
<td>8375</td>
<td>24mm x 1 1/2&quot;</td>
<td>74</td>
</tr>
<tr>
<td></td>
<td>254/256TC</td>
<td>8380</td>
<td>24mm x 1 1/2&quot;</td>
<td>92</td>
</tr>
<tr>
<td></td>
<td>284/286TC</td>
<td>8389</td>
<td>24mm x 1 1/2&quot;</td>
<td>150</td>
</tr>
<tr>
<td>15 FR/18 FR</td>
<td>213/215TC</td>
<td>8388</td>
<td>30mm x 1 1/2&quot;</td>
<td>150</td>
</tr>
<tr>
<td></td>
<td>254/256TC</td>
<td>8382</td>
<td>30mm x 1 1/2&quot;</td>
<td>150</td>
</tr>
<tr>
<td></td>
<td>284/286TC</td>
<td>8383</td>
<td>30mm x 1 1/2&quot;</td>
<td>225</td>
</tr>
</tbody>
</table>

Need selection help?

Q. How can I find the rpm needed to get specific gpm (Gallons Per Minute) I want?
A. Desired rpm = Desired gpm x Rated rpm
   Rated gpm

Q. Is there a simple way to find the approximate horsepower I’ll need to run the pump?
A. Electric Brake Horsepower
   (Standard 85% Mech. Efficiency)
   Required hp* = gpm x psi
   1460

Q. What size motor pulley should I use?
A. Pump Pulley
   (Outer Diameter) x
   Pump rpm
   Motor/Engine rpm

*Consult Engine Manufacturer
Motor Options

“C” Face, 60 Hz
Provides easily-assembled pump and motor units.

- Motors from Marathon Electric, WorldWide Electric and WEG
- Contact Cat Pumps for additional motor options, like IEC, 50 Hz, RPM options, EXP and more.

<table>
<thead>
<tr>
<th>HORSE POWER</th>
<th>VOLTAGE</th>
<th>FRAME</th>
<th>PART NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 PH, 1750 RPM, TEFC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.5</td>
<td>115/208–230</td>
<td>56C</td>
<td>8105</td>
</tr>
<tr>
<td>0.75</td>
<td>115/208–230</td>
<td>56C</td>
<td>8175</td>
</tr>
<tr>
<td>1</td>
<td>115/208–230</td>
<td>56C</td>
<td>8110</td>
</tr>
<tr>
<td>1.5</td>
<td>115/208–230</td>
<td>56C</td>
<td>8115</td>
</tr>
<tr>
<td>2</td>
<td>115/208–230</td>
<td>56C</td>
<td>8120</td>
</tr>
<tr>
<td>2.5</td>
<td>115/208–230</td>
<td>56C</td>
<td>8125</td>
</tr>
<tr>
<td>3</td>
<td>208–230/460</td>
<td>184TC</td>
<td>999839</td>
</tr>
<tr>
<td>5</td>
<td>208–230/460</td>
<td>184TC</td>
<td>997634</td>
</tr>
<tr>
<td>7.5</td>
<td>208–230/460</td>
<td>215TC</td>
<td>999766</td>
</tr>
<tr>
<td>10</td>
<td>208–230/460</td>
<td>215TC</td>
<td>999720</td>
</tr>
<tr>
<td>1 PH, 3450 RPM, TEFC OR ODP</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.5</td>
<td>115/230</td>
<td>56C</td>
<td>8054*</td>
</tr>
<tr>
<td>2</td>
<td>115/230</td>
<td>56C</td>
<td>8052*</td>
</tr>
<tr>
<td>3</td>
<td>115/208–230</td>
<td>56C</td>
<td>992139**</td>
</tr>
<tr>
<td>5</td>
<td>230</td>
<td>56C</td>
<td>8057***</td>
</tr>
</tbody>
</table>

* TEFC with ¾” Shaft
** ODP with ¾” Shaft
*** ODP with ¾” Shaft

| 3 PH, 1180 RPM, TEFC |  | | |
| 5 | 208–230/460 | 215TC | 994274 |
| 7.5 | 208–230/460 | 256TC | 994975 |
| 10 | 208–230/460 | 256TC | 994910 |
| 15 | 208–230/460 | 286TC | 994915 |
| 20 | 208–230/460 | 286TC | 994920 |

| 3 PH, 1750 RPM, TEFC |  | | |
| 0.33 | 208–230/460 | 56C | 990324 |
| 0.5 | 208–230/460 | 56C | 997671 |
| 1 | 208–230/460 | 56C | 999189 |
| 1.5 | 208–230/460 | 56C | 998843 |
| 2 | 208–230/460 | 56C | 899247 |
| 2.5 | 208–230/460 | 56C | 8126 |
| 3 | 208–230/460 | 182TC | 899302 |
| 5 | 208–230/460 | 184TC | 996543 |
| 7.5 | 208–230/460 | 213TC | 999436 |
| 10 | 208–230/460 | 215TC | 999377 |
| 15 | 208–230/460 | 254TC | 994001 |
| 20 | 208–230/460 | 256TC | 997645 |

| 3 PH, 3450 RPM, TEFC |  | | |
| 1.5 | 208–230/460 | 56C | 994794 |
| 3 | 230/460 | 56C | 8053 |

Drive Flexibility
Motors can be sold separately or with a pump as an assembled unit.

Motor-Driven Applications

- Pressure Washers
- Industrial High-Pressure Power Units
- Self-Serve Car Wash
- Car Wash Prep Units
- Washdown Systems
- Misting/Cooling/Fogging System
- Salt Water Desalination/SWRO

For more information, contact us at (763) 780-5440 | info@catpumps.com | www.catpumps.com
## SAE Mounting Components

### SAE Bell Housing Assemblies

<table>
<thead>
<tr>
<th>PUMP SERIES</th>
<th>MODELS</th>
<th>SAE TYPE</th>
<th>BELL HOUSING ASSEMBLY</th>
</tr>
</thead>
<tbody>
<tr>
<td>3CP</td>
<td>3CP1120–1140, 3CP1231–1241</td>
<td>B2</td>
<td>76SAEB2.3CP</td>
</tr>
<tr>
<td></td>
<td></td>
<td>B4</td>
<td>76SAEB4.3CP</td>
</tr>
<tr>
<td>3FR</td>
<td>237, 247, 277</td>
<td>B2</td>
<td>76SAEB2.3FR</td>
</tr>
<tr>
<td></td>
<td></td>
<td>B4</td>
<td>76SAEB4.3FR</td>
</tr>
<tr>
<td>5CP</td>
<td>5CP3105, 3110, 3160, 3120, 5CPM210, 5120, 6120, 6180CSS, 6190, 5CPQ6221–6271</td>
<td>A2</td>
<td>76SAEB2.5CP</td>
</tr>
<tr>
<td></td>
<td></td>
<td>B2</td>
<td>76SAEB2.5CP</td>
</tr>
<tr>
<td></td>
<td></td>
<td>B4</td>
<td>76SAEB4.5CP</td>
</tr>
<tr>
<td>5FR</td>
<td>347, 357</td>
<td>A2</td>
<td>76SAEB2.5FR</td>
</tr>
<tr>
<td></td>
<td></td>
<td>B2</td>
<td>76SAEB2.5FR</td>
</tr>
<tr>
<td></td>
<td></td>
<td>B4</td>
<td>76SAEB4.5FR</td>
</tr>
<tr>
<td>7CP</td>
<td>7CP6110CSS, 7CP6111CS</td>
<td>A2</td>
<td>76SAEB2.7CP</td>
</tr>
<tr>
<td></td>
<td></td>
<td>B2</td>
<td>76SAEB2.7CP</td>
</tr>
<tr>
<td></td>
<td></td>
<td>B4</td>
<td>76SAEB4.7CP</td>
</tr>
<tr>
<td>7FR</td>
<td>56, 60, 700, 740, 760, 781, 784, 786</td>
<td>A2</td>
<td>76SAEB2.7FR</td>
</tr>
<tr>
<td></td>
<td></td>
<td>B2</td>
<td>76SAEB2.7FR</td>
</tr>
<tr>
<td></td>
<td></td>
<td>B4</td>
<td>76SAEB4.7FR</td>
</tr>
<tr>
<td>15FR</td>
<td>1570, 1560, 660, 1580, 1530, 1540E, 1541, 1505, 1531, 1557</td>
<td>B2</td>
<td>76SAEB2.15FR</td>
</tr>
<tr>
<td></td>
<td></td>
<td>B4</td>
<td>76SAEB4.15FR</td>
</tr>
<tr>
<td>25FR</td>
<td>All 25FR Pumps</td>
<td>C2/C4</td>
<td>76SAEC.25FR</td>
</tr>
<tr>
<td>35FR</td>
<td>All 35FR Pumps 3501–3517, 3520–3527, 3535–3545, 3560, 3570</td>
<td>C2/C4</td>
<td>76SAEC.35FR</td>
</tr>
</tbody>
</table>

Bell Housing Assemblies include mounting hardware and flange

**SAE TYPE:**
- A2 = SAE "A" 2 Bolt, 3.25" Pilot
- B2 = SAE "B" 2 Bolt, 4" Pilot
- B4 = SAE "B" 4 Bolt, 4" Pilot
- C2 = SAE "C" 2 Bolt, 5" Pilot
- C4 = SAE "C" 4 Bolt, 5" Pilot

### SAE Flexible Coupler Assemblies

<table>
<thead>
<tr>
<th>PUMP SERIES</th>
<th>SAE TYPE</th>
<th>FLEX COUPLER ASSY</th>
<th>SHAFT TO SHAFT</th>
<th>TORQUE RATING FT-LB</th>
</tr>
</thead>
<tbody>
<tr>
<td>3CP &amp; 3FR</td>
<td>A2</td>
<td>8271</td>
<td>16.5mm x 5/8&quot;</td>
<td>74</td>
</tr>
<tr>
<td></td>
<td>B2/B4</td>
<td>8272</td>
<td>16.5mm x 3/4&quot;</td>
<td>74</td>
</tr>
<tr>
<td>5CP &amp; 5FR</td>
<td>A2</td>
<td>8273</td>
<td>20mm x 5/8&quot;</td>
<td>74</td>
</tr>
<tr>
<td></td>
<td>B2/B4</td>
<td>8274</td>
<td>20mm x 7/8&quot;</td>
<td>74</td>
</tr>
<tr>
<td>7CP &amp; 7FR</td>
<td>A2</td>
<td>8371</td>
<td>24mm x 5/8&quot;</td>
<td>92</td>
</tr>
<tr>
<td></td>
<td>B2/B4</td>
<td>8372</td>
<td>24mm x 3/4&quot;</td>
<td>92</td>
</tr>
<tr>
<td>15FR</td>
<td>B2/B4</td>
<td>8387</td>
<td>30mm x 7/8&quot;</td>
<td>150</td>
</tr>
<tr>
<td>25FR</td>
<td>B2/C4</td>
<td>994303</td>
<td>30mm x 1 1/4&quot;</td>
<td>188</td>
</tr>
<tr>
<td>35FR</td>
<td>C2/C4</td>
<td>997872</td>
<td>35mm x 1 1/4&quot;</td>
<td>350</td>
</tr>
<tr>
<td></td>
<td>C2/C4</td>
<td>999368</td>
<td>35mm x 1 3/8&quot;</td>
<td>350</td>
</tr>
<tr>
<td></td>
<td>C2/C4</td>
<td>999403</td>
<td>35mm x 1 1/2&quot;</td>
<td>350</td>
</tr>
<tr>
<td></td>
<td>C2/C4</td>
<td>999180</td>
<td>35mm x 1 5/8&quot;</td>
<td>350</td>
</tr>
<tr>
<td></td>
<td>C2/C4</td>
<td>999206</td>
<td>35mm x 1 7/8&quot;</td>
<td>350</td>
</tr>
</tbody>
</table>
Drive Accessories

Hubs and Hub/Key Assemblies

Metric sized hubs to match metric shaft diameter of pump.
- Contact Cat Pumps for available hubs for motor shafts.
- Metric sized hub with matching metric key for pump shaft only.

<table>
<thead>
<tr>
<th>DIAMETER (MM)</th>
<th>TYPE</th>
<th>PART NUMBER</th>
<th>PUMP MODELS</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUB (STEEL)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>H</td>
<td>33000 *</td>
<td>530, 550, 700, 740, 760, 781/K, 784, 786, 56, 60, 7CP610CS–7CP6171CS</td>
</tr>
<tr>
<td>25</td>
<td>H</td>
<td>30234</td>
<td>621, 623, 820, 821, 1010, 1011</td>
</tr>
<tr>
<td>30</td>
<td>B</td>
<td>990012 *</td>
<td>650–661D, 1050–1057, 1530/31, 1540E/41, 1560, 1570, 1580, 1810/K,</td>
</tr>
<tr>
<td>30</td>
<td>H</td>
<td>30059 *</td>
<td>2510/11, 2530–2537, 2560, 2565, 2831/K</td>
</tr>
<tr>
<td>45</td>
<td>B</td>
<td>990014 *</td>
<td>6020, 6040, 6747, 6760–6775, 6801/K, 6811/K, 6821/K, 6831/K, 6841/K, 6861/K, 67102, 67070</td>
</tr>
<tr>
<td>100</td>
<td>M</td>
<td>990068</td>
<td>152R060/C, 152R080/C, 152R100/C, 157R060, 157R080</td>
</tr>
</tbody>
</table>

Note: *Add “Z” to part number for zinc plated hub

HUB AND KEY ASSEMBLY (STEEL)

<table>
<thead>
<tr>
<th>DIAMETER (MM)</th>
<th>TYPE</th>
<th>PART NUMBER</th>
<th>PUMP MODELS</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.5</td>
<td>H</td>
<td>30942</td>
<td>280, 290, 333, 430, 3CP1120–1140, 3CP1221–1241, 230–277</td>
</tr>
<tr>
<td>25</td>
<td>H</td>
<td>30284</td>
<td>621, 623, 820, 821, 1010, 1011</td>
</tr>
<tr>
<td>30</td>
<td>H</td>
<td>30209</td>
<td>2510/11, 2520/C, 2530–2537, 2831/K</td>
</tr>
</tbody>
</table>

Note: Do not exceed 100 ft lb for models 2560, 2565

Clutches

Engages/disengages pump and drive device to meet flow demands.
- Reduces amount of time pump is running, saving energy and increasing pump life.
- Broad range of clutches up to 100 ft lb torque for high performance.

<table>
<thead>
<tr>
<th>MODELS</th>
<th>CLUTCH DIAMETER/NUMBER OF GROOVES</th>
<th>BELT TYPE</th>
<th>PUMP SHAFT DIAMETER</th>
<th>PUMP MODELS</th>
</tr>
</thead>
<tbody>
<tr>
<td>34960</td>
<td>7”/1</td>
<td>A</td>
<td>16.5 mm</td>
<td>3CP1120–1140, 3CP1221–1241</td>
</tr>
<tr>
<td>34961</td>
<td>7”/1</td>
<td>A</td>
<td>16.5 mm</td>
<td>280, 290, 333, 430, 230–277</td>
</tr>
<tr>
<td>34962</td>
<td>7”/1</td>
<td>A</td>
<td>20.0 mm</td>
<td>323, 390, 310–350S, 311–357, 45</td>
</tr>
<tr>
<td>34963</td>
<td>7”/2</td>
<td>A</td>
<td>20.0 mm</td>
<td>323, 390, 310–350S, 311–357, 45</td>
</tr>
<tr>
<td>34964</td>
<td>7”/2</td>
<td>A</td>
<td>20.0 mm</td>
<td>280, 290, 333, 430, 230–277</td>
</tr>
<tr>
<td>34965</td>
<td>7”/2</td>
<td>A</td>
<td>20.0 mm</td>
<td>3CP1120–1140, 3CP1221–1241</td>
</tr>
<tr>
<td>34970</td>
<td>7”/1</td>
<td>A</td>
<td>20.0 mm</td>
<td>SCP2120W–2150W, 3120/3120CSS, SCP5120–5140CSS, SCP6120–6190, SCPQ6221–6251</td>
</tr>
<tr>
<td>34980</td>
<td>7”/2</td>
<td>A</td>
<td>20.0 mm</td>
<td>SCP2120W–2150W, 3120/3120CSS, SCP5120–5140CSS, SCP6120–6190, SCPQ6221–6251</td>
</tr>
<tr>
<td>34971</td>
<td>7.3”/8</td>
<td>Poly-V, L-Style</td>
<td>24.0 mm</td>
<td>7CP610CS–7CP6171CS</td>
</tr>
<tr>
<td>76970</td>
<td>10”/2</td>
<td>B</td>
<td>20.0 mm</td>
<td>SCP Plunger Pumps</td>
</tr>
<tr>
<td>76980</td>
<td>10”/2</td>
<td>B</td>
<td>20.0 mm</td>
<td>323, 390, 310–350S, 311–357, 45</td>
</tr>
<tr>
<td>34628</td>
<td>12.4”/1</td>
<td>B</td>
<td>24.0 mm</td>
<td>56, 60, 530, 550, 700, 740, 760, 781/K, 784, 786</td>
</tr>
<tr>
<td>34630</td>
<td>12.4”/2</td>
<td>B</td>
<td>24.0 mm</td>
<td>56, 60, 530, 550, 700, 740, 760, 781/K, 784, 786</td>
</tr>
<tr>
<td>34563</td>
<td>12.4”/2</td>
<td>B</td>
<td>30.0 mm</td>
<td>650–661D, 1050–1057, 1530/31, 1540E/41, 1560, 1570, 1580, 1810/K</td>
</tr>
<tr>
<td>30655</td>
<td>12.4”/2</td>
<td>B</td>
<td>30.0 mm</td>
<td>2510, 2511, 2530, 2530E, 2531, 2537, 2560, 2565, 2831</td>
</tr>
</tbody>
</table>

Note: Do not exceed 100 ft lb for models 2560, 2565
Pulleys and Pulley/Hub w/Key

A combination one-piece pulley and hub construction for pump shaft installation.

- Contact Cat Pumps for available pulley sizes for either pump or motor side.

<table>
<thead>
<tr>
<th>PUMP SHAFT DIAMETER (MM)</th>
<th>PART NUMBER</th>
<th>PULLEY DIAMETER NO. OF GROOVES</th>
<th>BELT TYPE</th>
<th>PUMP MODELS</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.5</td>
<td>30032</td>
<td>5” / 1</td>
<td>A</td>
<td>230, 290, 333, 430, 3CP Series</td>
</tr>
<tr>
<td>16.5</td>
<td>30048</td>
<td>8” / 1</td>
<td>A/B</td>
<td>230, 290, 333, 430, 3CP Series</td>
</tr>
<tr>
<td>20</td>
<td>30058</td>
<td>8” / 1</td>
<td>A/B</td>
<td>310–357, 5CP Series</td>
</tr>
</tbody>
</table>

**PULLEY/HUB COMBINATION WITH TWO SET SCREWS (STEEL/ZINC PLATED)**

<table>
<thead>
<tr>
<th>PUMP SHAFT DIAMETER (MM)</th>
<th>PART NUMBER</th>
<th>PULLEY DIAMETER NO. OF GROOVES</th>
<th>BELT TYPE</th>
<th>PUMP MODELS</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.5</td>
<td>30244</td>
<td>8” / 1</td>
<td>A/B</td>
<td>230, 290, 333, 430, 3CP Series</td>
</tr>
<tr>
<td>16.5</td>
<td>30246</td>
<td>5” / 1</td>
<td>A</td>
<td>230, 290, 333, 430, 3CP Series</td>
</tr>
<tr>
<td>20</td>
<td>30633</td>
<td>8” / 1</td>
<td>A/B</td>
<td>310–357, 5CP Series</td>
</tr>
</tbody>
</table>

**PULLEY/HUB COMBINATION WITH TWO SET SCREWS AND KEY ASSEMBLY (STEEL)**

<table>
<thead>
<tr>
<th>HUB SIZE</th>
<th>PART NUMBER</th>
<th>PULLEY DIAMETER NO. OF GROOVES</th>
<th>BELT TYPE</th>
<th>PUMP MODELS</th>
</tr>
</thead>
</table>

**PULLEY ONLY (CAST IRON)**

<table>
<thead>
<tr>
<th>HUB SIZE</th>
<th>PART NUMBER</th>
<th>PULLEY DIAMETER NO. OF GROOVES</th>
<th>BELT TYPE</th>
<th>PUMP MODELS</th>
</tr>
</thead>
</table>

Service Tools

**Pliers**

Quick valve and snap ring removal/installation.

- Reverse pliers used for easy valve seat removal.
- Snap ring pliers used for Inlet Stabilizers assemblies.

**REVERSE PLIERS**

**SNAP RING**

Oil Gauge Removal Tool

Quick and easy replacement of crankcase oil gauge.

- Required for replacement of oil gauge.

**MODEL**

**SIZE**

M28
Service Tools

Seal Case Removal Tools
Simplifies seal replacement for various plunger pumps.
- Available as ½” drive socket or T-wrench.

<table>
<thead>
<tr>
<th>½” DRIVE SOCKETS</th>
<th>MODEL</th>
<th>FRAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>33004</td>
<td>5 Frame</td>
<td></td>
</tr>
<tr>
<td>33005*</td>
<td>7 Frame</td>
<td></td>
</tr>
<tr>
<td>33006</td>
<td>15 Frame</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>T-WRENCHES</th>
<th>MODEL</th>
<th>FRAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>45103</td>
<td>5 Frame</td>
<td></td>
</tr>
<tr>
<td>43257</td>
<td>7 Frame</td>
<td></td>
</tr>
<tr>
<td>43523</td>
<td>15 Frame</td>
<td></td>
</tr>
</tbody>
</table>

* For model 45, use 7 frame seal case removal tool.

Piston Pump Tools
These specialty installation tools minimize risk of damage to cup/seal during replacement.
- Used for piston pumps only.

<table>
<thead>
<tr>
<th>CUP INSTALLATION</th>
<th>MODEL</th>
<th>MODELS USED</th>
</tr>
</thead>
<tbody>
<tr>
<td>16981</td>
<td>280, 290, 820</td>
<td></td>
</tr>
<tr>
<td>22130</td>
<td>280, 290, 820</td>
<td></td>
</tr>
<tr>
<td>43548</td>
<td>320, 323</td>
<td></td>
</tr>
<tr>
<td>43749</td>
<td>333</td>
<td></td>
</tr>
<tr>
<td>27964</td>
<td>390</td>
<td></td>
</tr>
<tr>
<td>15770</td>
<td>1010</td>
<td></td>
</tr>
<tr>
<td>27853</td>
<td>2520</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SEAL INSTALLATION</th>
<th>MODEL</th>
<th>FRAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>25084</td>
<td>3, 4 Frame</td>
<td></td>
</tr>
</tbody>
</table>

Crankcase Oil Seal Kit
This specialty oil seal tool kit will assist in replacement of the 60 frame crankcase oil seals.
- Remove and re-install crankcase oil seal from wet-end.
- Minimize risk of damage to plunger/piston rod surfaces.
- Used for plunger or piston pumps

<table>
<thead>
<tr>
<th>MODEL</th>
<th>INCLUDES</th>
</tr>
</thead>
<tbody>
<tr>
<td>31173</td>
<td>Guide, washer, 9 screws and 3 oil seals</td>
</tr>
</tbody>
</table>
New Pumps

Cat Pumps continues to build on its market leading position with the introduction of new products. Every new product is built with the same winning business philosophy: manufacture the longest-lasting most dependable products and back them with availability from stock. Contact us to learn why customers worldwide trust Cat Pumps to keep their equipment running.

### New Pumps Specifications

<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
<th>TYPICAL APPLICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1730</strong></td>
<td></td>
</tr>
<tr>
<td>Max Flow:</td>
<td>15.8 gpm / 60 lpm</td>
</tr>
<tr>
<td>Max Pressure:</td>
<td>1500 psi / 103 bar</td>
</tr>
<tr>
<td>Max RPM:</td>
<td>1750</td>
</tr>
<tr>
<td>Inlet Ports (2): 1” NPT(F)</td>
<td></td>
</tr>
<tr>
<td>Discharge Ports (2): ¾” NPT(F)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Car Wash</td>
</tr>
<tr>
<td></td>
<td>• Tank Cleaning</td>
</tr>
<tr>
<td></td>
<td>• Equipment Washdown</td>
</tr>
</tbody>
</table>

| **2560**       |                       |
| Max Flow:      | 16 gpm / 60.8 lpm     |
| Max Pressure:  | 3000 psi / 207 bar    |
| Max RPM:       | 1510                  |
| Inlet Ports (2): 1 ¼” NPT(F) |
| Discharge Ports (2): ¾” NPT(F) |
|                | • Hydro Excavating    |
|                | • Water Jetting       |
|                | • Equipment Washdown  |

| **2565**       |                       |
| Max Flow:      | 20 gpm / 76 lpm       |
| Max Pressure:  | 2500 psi / 172 bar    |
| Max RPM:       | 1450                  |
| Inlet Ports (2): 1 ¼” NPT(F) |
| Discharge Ports (2): ¾” NPT(F) |
|                | • Hydro Excavating    |
|                | • Water Jetting       |
|                | • Central Cleaning System |

| **66DX50G11** |                       |
| Max Flow:     | 5.0 gpm / 18.9 lpm    |
| Max Pressure: | 3500 psi / 241 bar    |
| Max RPM:      | 3250                  |
| Inlet Ports (2): ½” NPT(F) |
| Discharge Ports (2): ¼” NPT(F), ¼” NPT(M) |
| Shaft:        | 1” Hollow             |
|                | • High-Pressure Wash  |
|                | • Surface Cleaner     |
|                | • Water Jetting       |

| **56HS**      |                       |
| Max Flow:     | 8.0 gpm / 30.2 lpm    |
| Max Pressure: | 3000 psi / 207 bar    |
| Max RPM:      | 1760                  |
| Inlet Ports (2): ½” NPT(F) |
| Discharge Ports (2): ¾” NPT(F) |
|                | • Hydro Excavating    |
|                | • High-Pressure Wash  |
|                | • Water Jetting       |
New Products and Updates

25FR PUMPS – BELL HOUSINGS FOR HYDRAULIC MOTOR (SAE)

25FR PUMPS – MODELS 2510, 2530, 2560, 2565

A simple upgrade to the crankcase allows 25 FR Pumps to be direct bell house-driven by SAE “C” 2 or 4-bolt hydraulic motors. Bell housings and flex couplers are stock items.

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>76SAEC.25FR</td>
<td>Bell Housing Assembly</td>
</tr>
<tr>
<td>994303</td>
<td>Flex Coupler Assembly</td>
</tr>
</tbody>
</table>
Cat Pumps Resources On-Demand

Take advantage of the many support options Cat Pumps offers its distributors, OEMs and end users. From live service and support to 24/7 online information and materials, customers can get help they need, when they need it.

- **All-New catpumps.com**
  Answers to your questions can be just a click away. Get up-to-date product information, service documents and videos, pump and system configuration tools, and more!
  - A blog to keep you updated on the latest Cat Pumps news and developments
  - A new mobile-friendly platform, ensuring the best experience on any device
  - Upgraded worldwide distributor search engine offers faster, more customizable results

- **Product, Application & Service Literature**
  Complete catalogs of pumps, accessories and systems are available in print and online on our website. Sales literature includes the following items:
  - Sell Sheets and brochures for specific markets and products
  - Design guides for high-pressure systems and flush-style pumps
  - Technical Bulletins

- **Training Videos**
  Informative “Whiteboard Sessions” videos cover a variety of technical topics in short and easy-to-comprehend lessons conducted by Cat Pumps engineering.
  Find them at www.catpumps.com/whiteboard-sessions and on the Cat Pumps YouTube channel.

- **Service Videos**
  Learn how to service seal and valve kits in these authorized Cat Pumps videos, hosted on the Cat Pumps YouTube channel and website.
  Find them at these links:
  www.catpumps.com/service-videos  www.youtube.com/catkumps1968

- **Live Industry-Leading Service & Support**
  Cat Pumps knowledgeable and experienced customer service team provides assistance with order information, as well as technical support in product selection, installation, maintenance, pump repair and general system troubleshooting.
  
  Live Support is available M–F, 8:00 a.m. to 5:00 p.m. CST at (763) 780-5440.
  Customer Care: orders@catpumps.com | Tech Support: techsupport@catpumps.com
Customer Service — Another Cat Pumps Difference

When customers do business with Cat Pumps, they benefit not only from long-lasting dependable products, but also from excellent customer service and support. Cat Pumps customers enjoy the following benefits:

- 99.4% order fill rate, supported by world-class inventory management system
- 99.9% shipping accuracy, which means customers receive what they ordered
- 99.8% of orders ship within 24 hours for fast on-the-job delivery
- Worldwide distribution network stocking genuine Cat Pumps products and parts
- Industry-leading customer service with “live” support, from phone operators to Technical Services
- Experienced staff on call to assist with inquiries, from designing power units to system troubleshooting
- Email sales@catpumps.com for fast response to questions and requests or call (763) 780-5440

Sales and service support is provided by highly qualified distribution network covering the U.S., Canada, and Mexico. Cat Pumps has an international presence with sales offices in the U.K., Belgium and Germany as well as a worldwide distribution channel.

Complete, Accurate and Fast Order Shipping

Pumps and parts are stocked for off-the-shelf delivery. Wherever customers are in the world, Cat Pumps service and support are never far away. Long-lasting products backed by excellent customer service are why Cat Pumps is the best choice for high-pressure pumps and systems.
Cat Pumps Locations

**Cat Pumps–World Headquarters**
1681 94th Lane Northeast
Minneapolis, MN 55449
USA
P: (763) 780-5440
F: (763) 780-2958
technical@catpumps.com
www.catpumps.com

**Territories Served**
U.S., Canada

**International Division**
P: (763) 780-5440
F: (763) 785-4329
intlsales@catpumps.com
www.catpumps.com

**Territories Served**
Africa, Asia, Australia, Central and South America, Mexico, Middle East, New Zealand, Turkey

**Cat Pumps International N.V.**
Heiveldekens 6A
2550 Kontich
Belgium
P: 32 3 450 71 50
F: 32 3 450 71 51
cpi@catpumps.be
www.catpumps.be

**Territories Served**
Western Europe (except U.K., Germany, and Austria)

**Cat Pumps (U.K.) Ltd.**
1 Fleet Business Park, Sandy Lane
Church Crookham
FLEET, Hampshire GU52 8BF
England
P: +44 (0) 1252 622031
F: +44 (0) 1252 626655
sales@catpumps.co.uk
technical@catpumps.co.uk
www.catpumps.co.uk

**Territories Served**
U.K. and Ireland

**Cat Pumps Deutschland GmbH**
Buchwiesse 2, D-65510
Idstein
Germany
P: +49 6126 9303 0
F: +49 6126 9303 33
info@catpumps.de
www.catpumps.de

**Territories Served**
Austria, Commonwealth of Independent States (CIS), Germany and Eastern Europe

**SALES, DISTRIBUTION, SERVICE**
Call today for product and application assistance. (763) 780-5440 or visit us at www.catpumps.com

Cat Pumps occupies over 145,000 sq. ft. at its world headquarters in Minneapolis, MN.

For International inquiries go to www.catpumps.com and navigate to the “Contact Us” link.

©2020–2021 Cat Pumps Inc. All rights reserved. All written and visual data contained in this document are based on the latest product information available at the time of publication.
Cat Pumps reserves the right to make changes at any time without notice. All other brand names or marks are used for identification purposes and are trademarks of their respective owners.