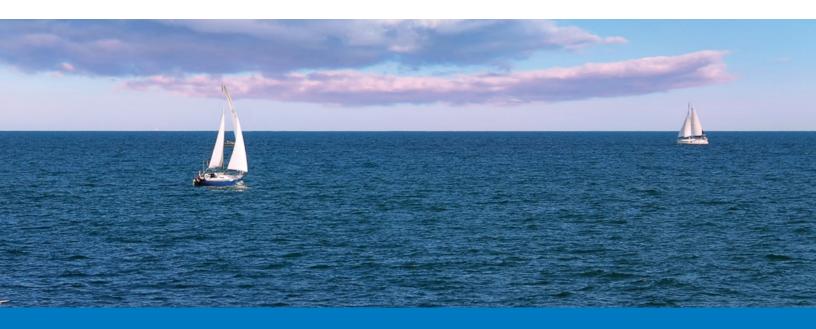


Sea Water Reverse Osmosis/ Desalination Products

Corrosion-Resistant Products for Superior Life and Dependability



Product Quality, Reliability and Support You Expect

www.catpumps.com



Reliable Fresh Water Production

Cat Pumps has earned the reputation as the industry leader for high-pressure SWRO/desalination pumps due to long product life and dependable performance. Our commitment to produce the highest-quality, longest lasting products is supported by maintaining a rigorous zero defect quality assurance program to guarantee consistently high quality products — every time.

Global Presence and Worldwide Acceptance

Desalination (Seawater Reverse Osmosis or SWRO) is a critical process for safety, survival, and comfort in a variety of applications:

- Work and pleasure boats
- Resorts
- Off-shore platforms
- Military/land-based
- Municipalities
- Many others

With operations in the United States, United Kingdom, Belgium, Germany and a distribution network covering the globe, Cat Pumps products and service are everywhere you need them to be.



Products and Service You Can Count On

In addition to receiving the highest quality products available, Cat Pumps customers also benefit from the following services:

- Pumps and repair parts are stock items with 99% order fill rate and ship within 24 hours
- Worldwide sales and distribution channels stocking genuine Cat Pumps products
- Engineering and technical support for product selection, installation, maintenance, and troubleshooting.
 Contact Cat Pumps for more information.

Quality You Need to Keep Your Equipment Running

Cat Pumps designs and builds products to the highest quality levels. Every last design detail is optimized for product life and performance. Examples include the following features:

- Specially formulated seals and high density, polished ceramic plungers typify the attention to design detail that results in thousands of hours of trouble-free service
- Stainless steel valves, seats and springs provide corrosion resistance, positive seating and long life
- Wet seal design increases service life by allowing pumped fluids to cool and lubricate the elastomers on both sides



Product Specification Range

A wide range of pump options are available, including a variety of products that meet 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 3450
- Liquid Temperature: -10° to 200°F (-23° to 93°C)
- Manifold Materials: Nickel Aluminum Bronze, 304 and 316 Stainless Steel, Duplex Stainless Steel. Other materials available on request
- Sealing Material: NBR, FPM, EPDM, PTFE, silicone-free and other materials available upon request
- Drives: Electric, Engine, Hydraulic, Pneumatic



Model 6762 60 gpm (227 lpm), 1200 psi (83 bar)



Small Marine Systems



Model 2SFQ42SEEL with NEMA Motor

316 Stainless Steel

Direct Drive - Hollow Shaft, NEMA 56C

| Pump | Rated | Flow | Rated P | ressure | | at 1000 psi (69 bar) | |
|------------|-------|------|---------|---------|------|----------------------|-----|
| Model | gpm | lpm | psi | bar | rpm | hp | kW |
| 2SF05SEEL | 0.5 | 1.9 | 1200 | 83 | 1725 | 0.3 | 0.2 |
| 2SF10SEEL | 1.0 | 3.8 | 1200 | 83 | 1725 | 0.7 | 0.5 |
| 2SF15SEEL | 1.5 | 5.7 | 1200 | 83 | 1725 | 1.0 | 0.8 |
| 2SF22SEEL | 2.3 | 8.7 | 1200 | 83 | 1725 | 1.6 | 1.2 |
| 2SFQ25SEEL | 2.5 | 9.5 | 1200 | 83 | 1725 | 1.7 | 1.3 |
| 2SFQ29SEEL | 2.9 | 10.8 | 1200 | 83 | 1725 | 2.0 | 1.5 |
| 2SFQ35SEEL | 3.5 | 13.2 | 1200 | 83 | 1725 | 2.4 | 1.8 |
| 2SFQ42SEEL | 4.2 | 15.9 | 1000 | 69 | 1725 | 2.9 | 2.2 |

316 Stainless Steel

Direct Drive - Solid Shaft, Bell House, NEMA C or SAE



Model 3CP1221 with Bell Housing and NEMA Motor

| Pump | Rated | Flow | Rated P | Rated Pressure at 1000 | | at 1000 p | si (69 bar) |
|------------|-------|------|---------|------------------------|------|-----------|-------------|
| Model | gpm | lpm | psi | bar | rpm | hp | kW |
| 3CP1231 | 2.3 | 8.7 | 2000 | 138 | 1725 | 1.6 | 1.2 |
| 3CP1241 | 3.6 | 13.6 | 2000 | 138 | 1725 | 2.5 | 1.8 |
| 5CPQ6241CS | 4.0 | 15.1 | 2000 | 138 | 1725 | 2.7 | 2.0 |
| 3CP1221 | 4.2 | 15.9 | 2000 | 138 | 1725 | 2.9 | 2.1 |
| 5CP6251 | 5.0 | 18.9 | 2000 | 138 | 1725 | 3.4 | 2.6 |
| 5CPQ6221 | 7.4 | 28 | 1200 | 83 | 1725 | 5.1 | 3.8 |
| 7CP6111 | 10.5 | 39.7 | 2000 | 138 | 1725 | 7.2 | 5.4 |

Nickel Aluminum Bronze

Direct Drive - Solid Shaft, Bell House, NEMA C or SAE

| Pump | Rated | Flow | Rated P | Rated Pressure | | at 1000 psi (69 bar) | |
|-------|-------|------|---------|----------------|------|----------------------|-----|
| Model | gpm | lpm | psi | bar | rpm | hp | kW |
| 237 | 2.3 | 8.7 | 1500 | 103 | 1725 | 1.6 | 1.2 |
| 247 | 3.6 | 13.6 | 1200 | 83 | 1725 | 2.5 | 1.8 |
| 347 | 4.0 | 15.1 | 1800 | 124 | 1725 | 2.7 | 2.0 |
| 277 | 4.2 | 15.9 | 1000 | 69 | 1725 | 2.9 | 2.1 |
| 357 | 5.0 | 18.9 | 1500 | 103 | 1725 | 3.4 | 2.6 |



Model 277 with Bell Housing and NEMA Motor



Model 5CPQ6221

316 Stainless Steel

Belt Drive - Solid Shaft

| Pump | Rated | Flow | Rated Pressure | | | at 1000 psi (69 bar) | |
|----------|-------|------|----------------|-----|------|----------------------|-----|
| Model | gpm | lpm | psi | bar | rpm | hp | kW |
| 311 | 4.0 | 15.1 | 2200 | 152 | 950 | 2.7 | 2.0 |
| 311 alt | 5.0 | 18.9 | 1500 | 103 | 1190 | 3.4 | 2.6 |
| 5CPQ6221 | 6.0 | 22.7 | 2000 | 138 | 1400 | 4.1 | 3.1 |
| 1051 | 10.0 | 37.9 | 2200 | 152 | 958 | 6.8 | 5.1 |
| 7CP6171 | 10.5 | 39.7 | 2000 | 138 | 1450 | 7.2 | 5.4 |

Medium to Commercial Marine Systems

316 Stainless Steel

Belt Drive - Solid Shaft

| Pump | Rated | Flow | Rated P | ressure | | at 1000 psi (69 bar) | |
|-------|-------|-------|---------|---------|------|----------------------|------|
| Model | gpm | lpm | psi | bar | rpm | hp | kW |
| 1531 | 15.6 | 59.0 | 1500 | 103 | 1450 | 10.7 | 8.0 |
| 1541 | 18 | 68.1 | 1200 | 83 | 1100 | 12.3 | 9.2 |
| 2511 | 20 | 75.7 | 1500 | 103 | 1450 | 13.7 | 10.2 |
| 2531 | 21 | 79.5 | 1200 | 83 | 860 | 14.4 | 10.7 |
| 3521 | 23 | 87.0 | 2000 | 138 | 800 | 15.8 | 11.8 |
| 2531 | 25 | 94.6 | 1000 | 69 | 1025 | 17.1 | 12.8 |
| 3531 | 36 | 136.2 | 1200 | 83 | 800 | 24.7 | 18.4 |
| 3541 | 45 | 170.3 | 1000 | 69 | 765 | 30.8 | 23.0 |
| 6761 | 60 | 227.0 | 1200 | 83 | 520 | 41.1 | 30.7 |
| 6771 | 75 | 284.0 | 1200 | 83 | 650 | 51.4 | 38.3 |



Model 2531

Duplex Stainless Steel

Belt Drive - Solid Shaft

| Pump | Rated | Flow | Rated Pressure | | | at 1000 psi (69 bar) | | |
|---------|-------|-------|----------------|-----|-----|----------------------|-------|--|
| Model | gpm | lpm | psi | bar | rpm | hp | kW | |
| 1051D | 10 | 37.9 | 2200 | 152 | 958 | 6.8 | 5.1 | |
| 3822 | 23 | 87.0 | 2000 | 138 | 800 | 15.8 | 11.8 | |
| 3832 | 36 | 136.2 | 1200 | 83 | 800 | 24.7 | 18.4 | |
| 6762 | 60 | 227.0 | 1200 | 83 | 520 | 41.1 | 30.7 | |
| 67102 | 100 | 378.5 | 1000 | 69 | 680 | 68.5 | 51.1 | |
| 152R060 | 115 | 435.3 | 1200 | 83 | 360 | 78.8 | 58.8 | |
| 152R080 | 200 | 757.0 | 1200 | 83 | 355 | 137.0 | 102.2 | |
| 152R100 | 240 | 908.4 | 1000 | 69 | 270 | 164.4 | 122.6 | |



Model 1051D

"Q" Pump Option for Low Noise Applications

Cat Pumps designers developed the "Q" pump option for select models to meet the needs of customers asking for quieter operation. The sound level reduction for "Q" option pumps is -6 dB (decibels). Every 3dB is a 50% reduction in sound intensity or acoustic power. In systems where the pump is the most prominent source of sound, this reduction is significant.

"Q" Option Available in Select Models

Cat Pumps currently offers the following pump models with the "Q" option. Please contact Cat Pumps for more information.

- 2SFQ25, 29, 35, 42 SEEL (stainless steel)
- 5CPQ6221, 6241CS (stainless steel)
- 5CPQ6221G1, 6241CSG1, 6251G1 (stainless steel/gearbox)

Accessories



Pressure Regulators

| Model | Flow | Range | Pressure | Range | Ports | |
|----------|----------|------------|------------|----------|-----------------|---------------|
| Model | gpm | lpm | psi | bar | Inlet/discharge | By-pass |
| 7001.100 | 0.5 - 5 | 1.9 - 18.9 | 100 - 1000 | 6.9 - 69 | 3/8" NPT(F) | 1/2" NPT(F) |
| 7011.100 | 1.0 - 10 | 3.8 - 38 | 100 - 1000 | 6.9 - 69 | 1/2" NPT(F) | 3/4" NPT(F) |
| 7021.100 | 2.5 - 25 | 9.5 - 94.6 | 100 - 1000 | 6.9 - 69 | 3/4" NPT (F) | 1" NPT(F) |
| 7031.100 | 3.5 - 35 | 13.2 - 132 | 250 - 1000 | 18-69 | 3/4" NPT (F) | 1" NPT(F) |
| 7375 | 10 - 75 | 38 - 284 | 100 - 1000 | 6.9 - 69 | 1-1/4" NPT(F) | 1-1/2" NPT(F) |
| 7410 | 10 - 100 | 38 - 378 | 100 - 1500 | 6.9 -103 | 1-1/2" NPT(F) | 2" NPT(F) |
| 890706 | 15 - 260 | 57 - 984 | 250 - 1000 | 17-69 | 2" NPT(F) | 2" NPT(M) |



Pop-off Valves / Relief Valves

| Model | Max | Max Flow | | Range | Ports | | |
|--------|-----|----------|-------------|----------|-----------------|----------------|--|
| Model | gpm | lpm | psi | bar | Inlet/discharge | By-pass | |
| 9960 | 6 | 23 | 300 - 1500 | 21 - 103 | 1/4" NPT(M) | 3/4" Barb | |
| 9941 | 25 | 95 | 1000 - 4000 | 69 - 275 | 3/4" NPT(M) | 1" Barb | |
| 890710 | 100 | 380 | 300 - 1500 | 21 - 103 | 1" NPT(M) | 1" NPT(F) | |
| 890713 | 210 | 795 | 500 - 4000 | 35 - 275 | 2" NPT(M) | 2" NPT(F) | |



Crankcase Oil

| Part Number | Description |
|-------------|---|
| 6107 | Bottle - 21 Ounces |
| 6100 | Case : 12 - 21 ounce bottles |
| 6105 | 5 Gallon Twin Pack: 2 x 2.5 gallon jugs |
| 6109 | Drum: 30 gallons |



Clutches

| Model | Outside Diameter | Grooves | Belt Type | Pump Shaft Diameter | Pumps Models |
|-------|---------------------|---------|--------------|------------------------|----------------------|
| 34960 | 7" | 1 | А | 16.5 mm | 3CP Series |
| 34962 | 7" | 1 | А | 20 mm | 311 - 351, 317 - 357 |
| 34970 | 7" | 1 | А | 20 mm | 5CP Series |
| 34965 | 7" | 2 | А | 16.5 mm | 3CP Series |
| 34963 | 7" | 2 | А | 20 mm | 311 - 351, 317 - 357 |
| 34980 | 7" | 2 | А | 20 mm | 5CP Series |
| 76980 | 10" | 2 | В | 20 mm | 311 - 351, 317 - 357 |
| 76970 | 10" | 2 | В | 20 mm | 5CP Series |
| 34563 | 12.4" | 2 | В | 30 mm | 1051, 1531, 1541 |

Accessories

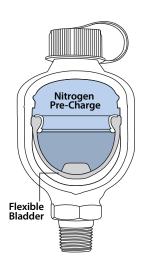
Pulsation Dampeners

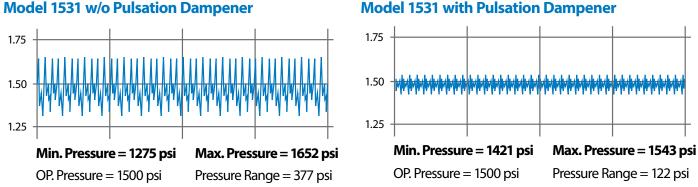
| Model | Max | c Flow Pressure Range | | Volume | Ports | |
|--------|-----|-----------------------|-------------|-----------|---------|---------------|
| Model | gpm | lpm | lpm psi bar | | cu. in. | Ports |
| 6031 | 15 | 57 | 100 - 2400 | 6.9 - 165 | 10 | 1/2" NPT(M) |
| 6014 | 25 | 94.6 | 100 - 2400 | 6.9 - 165 | 20 | 3/4" NPT(M) |
| 6015 | 70 | 265 | 100 - 1500 | 6.9 - 103 | 120 | 1-1/4" NPT(M) |
| 701550 | 100 | 378.5 | 100 - 3365 | 6.9 - 232 | 122 | 1-1/2" NPT(F) |
| 701557 | 320 | 1211 | 100 - 1275 | 6.9 - 88 | 214 | 1-1/2" NPT(F) |

A pulsation dampener contains a dry nitrogen charged bladder that is used to absorb both the high and low fluctuations of pressure produced by a positive displacement pump. A pulsation dampener's bladder not only absorbs the pressure spikes during operation, but due to the nitrogen charged bladder, it pushes flow back into the stream during the low pressure wave, reducing the total fluctuation to 2-3% when properly sized.

Benefits:

- Produces smooth, consistent flow
- · Protects downstream system components (i.e., regulator, unloader, relief valve)
- Reduces water hammer
- Improves performance at low rpm





For best results, the dampeners should be mounted as close to the pump head as possible, preferably in a vertical position. Dampener should be charged at 60% of operating pressure.

Model 1531 w/o Pulsation Dampener



Direct Mounting Components

Cat Pumps direct mounting options offer perfect alignment and easy assembly. Available for electric motors, hydraulic motors, and gas/diesel engines. Take advantage of direct drive pumps with off the shelf delivery from Cat Pumps.

Features

- Compact direct mounting reduces space requirement
- Ease of assembly reduces fabrication costs
- · Eliminates belt selection, sizing and adjustment
- Optimal alignment reduces side-loading for quiet, trouble-free operation



Electric (NEMA) Mounting

Bell Housing Assembly

| Pump Series | Models | Motor Frame | Bell Housing Assy |
|----------------|---------------------|----------------|----------------------|
| 260 | | 56C - 145TC | 76056.3CP |
| 3CP Series | 3CP1221 - 41 | 182/184TC | 76184.3CP |
| Jelles | | 213/215TC | 76215.3CP |
| 3FR Series | | 56C - 145TC | 76056.3FR |
| | 237 - 247 | 182/184TC | 76184.3FR |
| | | 213/215TC | 76215.3FR |
| | | 56C - 145TC | 76056.5CP |
| 5CP | | 182/184TC | 76184.5CP |
| Series | 5CPQ6221 - 5CPQ6251 | 213/215TC | 76215.5CP |
| | | 254/256TC | 76256.5CP |
| 5FR | 247 257 | 182/184TC | 76184.5FR |
| Series | 347 - 357 | 213/215TC | 76215.5FR |
| 760 | | 182/184TC | 76184.7CP |
| 7CP Series | 7CP6111 | 213/215TC | 76215.7CP |
| JEIIES | | 254/256TC | 76256.7CP |

Flexible Coupler Assembly

| Pump Series | Motor Frame | Flex Coupler Assy | Shaft to Shaft | HP Rating |
|----------------|----------------|----------------------|----------------------|--------------|
| 3CP | 56C | 8215 | 16.5mm x 5/8" | 3 |
| | 145TC | 8210 16.5mm x 7/8" | | 3 |
| | 182/184TC | 8220 | 16.5mm x 1 1/8" | 3 |
| | 182/184TC | 8225 | 8225 16.5mm x 1 1/8" | |
| | 213/215TC | 8270 | 16.5mm x 1 3/8" | 20 |
| | 56C | 8261 | 20mm x 5/8" | 10 |
| | 145TC | 8260 | 20mm x 7/8" | 10 |
| 5CP & 5FR | 182/184TC | 8230 | 20mm x 1 1/8" | 10 |
| | 213/215TC | 8275 | 8275 20mm x 1 3/8" | |
| | 245/256TC | 8217 | 20mm x 1 5/8" | 20 |
| 7CP | 182/184TC | 8370 | 24mm x 1 1/8" | 10 |
| | 213/215TC | 8375 | 24mm x 1 3/8" | 10 |
| | 254/256TC | 8380 | 24mm x 1 5/8" | 20 |

Hydraulic, SAE Mounting Components

Bell Housing Assembly

| Pump Series | Models | SAE Type | Bell Housing Assembly |
|----------------|---------------|-------------|--------------------------|
| 3CP Series | 3CP1221-1241 | A2 | 76SAEA2.3CP |
| | | B2 | 76SAEB2.3CP |
| | | B4 | 76SAEB4.3CP |
| 3FR | 237-277 | A2 | 76SAEA2.3FR |
| Series | | B2 | 76SAEB2.3FR |
| | | B4 | 76SAEB4.3FR |
| 5CP Series | 5CPQ6221-6251 | A2 | 76SAEA2.5CP |
| | | B2 | 76SAEB2.5CP |
| | | B4 | 76SAEB4.5CP |
| 5FR | 311, 347-357 | A2 | 76SAEA2.5FR |
| Series | | B2 | 76SAEB2.5FR |
| | | B4 | 76SAEB4.5FR |
| 7CP Series | 7CP6111-6171 | A2 | 76SAEA2.7CP |
| | | B2 | 76SAEB2.7CP |
| | | B4 | 76SAEB4.7CP |

Flexible Coupler Assembly

| Pump Series | SAE Type | Flex Coupler Assy | Shaft to Shaft | HP Rating |
|----------------|-------------|----------------------|-------------------|--------------|
| 3CP & 3FR | A2 | 8271 | 16.5mm x 5/8" | 10 |
| | B2, B4 | 8272 | 16.5mm x 7/8" | 10 |
| 5CP & 5FR | A2 | 8273 | 20mm x 5/8" | 10 |
| | B2, B4 | 8274 | 20mm x 7/8" | 10 |
| 7CP | A2 | 8371 | 24mm x 5/8" | 20 |
| | B2, B4 | 8372 | 24mm x 7/8" | 20 |

Bell Housing Assemblies include mounting hardware and flange

SAE TYPE:

A2 = SAE "A" 2 Bolt, 3.25" PilotB2 = SAE "B" 2 Bolt, 4" PilotB4 = SAE "B" 4 Bolt, 4" Pilot

Gas/Diesel Direct Mount Gearbox

316 Stainless Steel

Gearbox Drive 3/4" and 1"

| Pump Model | Rated Flow | | Rated Pressure | | Engine | Pump | Shaft | at 1000 psi (69 bar) | |
|---------------|------------|------|----------------|-----|--------|------|-------|----------------------|-------|
| | gpm | lpm | psi | bar | rpm | rpm | Shart | hp | kW |
| 3CP1241G | 3.0 | 11.4 | 2000 | 138 | 3600 | 1412 | 3/4" | 2.6 | 18.5 |
| 3CP1211G | 3.8 | 14.4 | 1500 | 103 | 3400 | 1333 | 3/4" | 3.3 | 5.1 |
| 3CP1221G | 3.5 | 13.2 | 1500 | 103 | 3600 | 1412 | 3/4" | 3.0 | 11.8 |
| 5CPQ6241CSG1 | 4.0 | 15.1 | 2000 | 138 | 3600 | 1760 | 1" | 3.4 | 30.8 |
| 5CP6251G1 | 5.0 | 18.9 | 2000 | 138 | 3600 | 1760 | 1" | 4.3 | 51.4 |
| 5CPQ6221G1 | 7.4 | 28.0 | 1200 | 83 | 3600 | 1760 | 1" | 6.4 | 59.1 |
| 7CP6111G1 | 10.0 | 37.9 | 2000 | 83 | 3400 | 1760 | 1" | 8.6 | 102.7 |

Note: All 1" Gearboxes are also available in 1-1/8" size (G118). Pump models listed include pump and gearbox

*Consult engine manufacturer for actual torque available at required speed

Custom Pumping Systems

Cat Pumps is the industry leader in providing custom-engineered pumping systems to meet a wide range of application needs. By selecting Cat Pumps for your next pumping system, you eliminate the expense of designing, multiple source buying, fabrication and testing. The Cat Pumps technical sales team assists with proper component selection, as well as operation and maintenance support.

All systems are designed, built and pressure tested in the Cat Pumps Minneapolis location. To begin the quoting process, call the main office 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.

System Configuration

With extensive design experience, Cat Pumps can help determine the best configuration for any application. Common options listed below:

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 • 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 • Clutch

Accessories

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

- Regulator
 Relief / Pop-off Valve
 Pressure Gauge
 Pulsation Dampener
- Inlet Filter / Strainer







Customer Care that Keeps You in Business



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.

ABOUT CAT PUMPS

Proven Quality, Customer Focused

Cat Pumps is the world leader in the design, manufacture and marketing of the most dependable high-pressure positive displacement reciprocating triplex pumps and systems in the market. Our mission to exceed customer expectations for quality, reliability, availability, delivery, technical expertise and aftermarket support to assure the best value in all the industries served.

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