



Misting, Cooling and Fogging Products

High-Pressure Pumps and Systems for Exceptional Performance



Product Quality, Reliability and Support You Expect

www.catpumps.com



Photo provided by Atomizing Systems Inc.

Cat Pumps Keeps You Cool, Clean, and in Control

Atomized water keeps customers and computer servers cool, potatoes and lumber humid, and amusement parks fun. From poultry farms to greenhouses, high-pressure misting contributes to happy egg-laying hens and green growing plants. But the opposite is also true: poor heat and humidity control can lead to overheating, loss of service or product, and many unhappy customers.

Equipment builders stake their reputation on system performance. Lost time, production, and customer satisfaction cannot be recovered. This is why Cat Pumps is the leading pump provider to the industry. With over 50 years of high-pressure pump manufacturing, Cat Pumps has built a solid reputation of producing the highest quality, longest-lasting pumps.

Quality is never an accident. Cat Pumps has engineered every last detail of pump design for long-life and reliable performance. When service is necessary, repairs can be made fast without special tools. Cat Pumps stocks service kits and parts for off-the-shelf delivery, plus is supported by a strong worldwide distribution network.

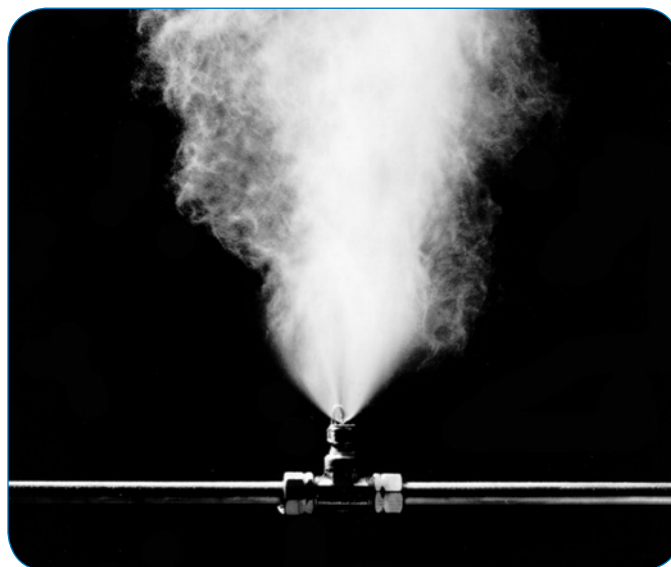


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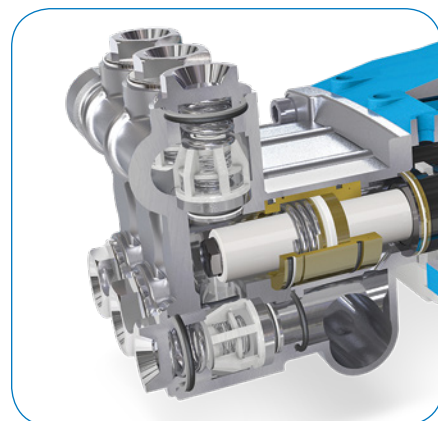
Make every hour count with Cat Pumps. Enjoy these benefits:

- Higher productivity and better yields
- Better system performance with less downtime
- Greater confidence in equipment and system performance

Quality 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



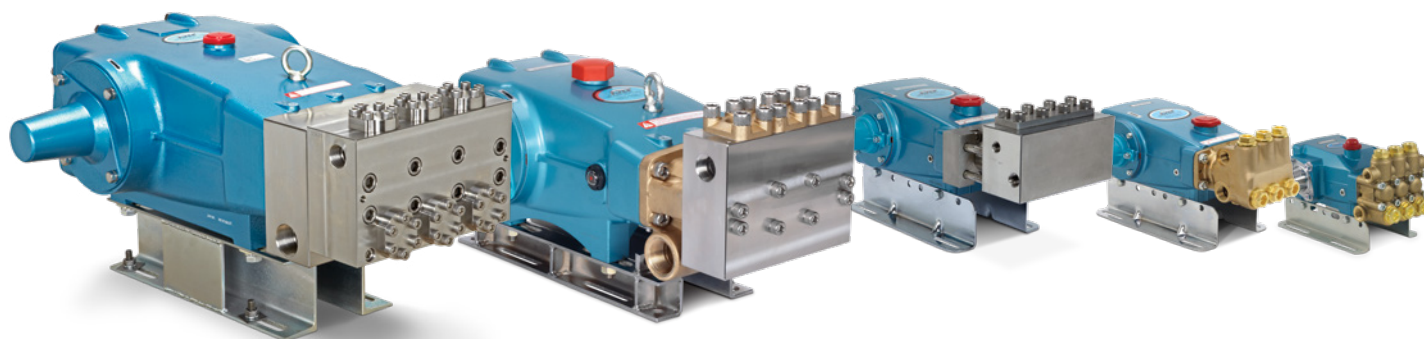
Product Performance Range

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: Brass, 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)



Industry Applications

Humidity/Moisture Control

Misting systems are used to maintain proper moisture and/or consistent humidity. They eliminate static electricity, suspend airborne dust, and ensure that product and materials are less susceptible to brittleness and fracturing.

Typical Applications:

- Nurseries and Greenhouses
- Air handling units
- Poultry Hatchery
- Vegetable Storage
- Flash Drying
- Automotive Manufacturing Paint Booth
- Wine Barrel Storage
- Meat Processing Rooms
- Textile/Paper Processing
- Print shops
- Concrete Curing
- Lumber Conditioning
- Waste Water Mist Evaporation



Evaporative Cooling/Temperature Control

A high-pressure pump system and nozzles inject atomized water into the air. The results of this type of cooling are dramatic and can reduce air temperature by 20 to 30 degrees depending upon ambient conditions.

Typical Applications:

- Outdoor dining and waiting areas
- Hotels, resorts, and theme parks
- Sporting events
- Warehouses and loading docks
- Poultry barns
- Water mist fire protection
- Recreational areas
- Kennels and veterinary hospitals
- Livestock cooling
- Universities and libraries
- Site tents for personnel cooling



Photo provided by Modern Misting Systems Inc.

Odor and Pest Control

Misting/fogging systems are commonly used in eliminating unwanted odors and pests. The reduction of water and chemicals lowers costs, making misting a great choice for odor and pest control.

Typical Applications:

- Recycling and landfills
- Waste transfer stations
- Trash collection sites
- Water treatment facilities
- Rendering plants
- Food waste sites
- Livestock and poultry sites
- Sanitation
- Paper mills
- Mosquito misting



Photo provided by Atomizing Systems Inc.

Special Effects

Misting/fogging systems are used to simulate fog or smoke and create excitement or intrigue. Misting/fogging systems are a great way to improve the customer experience, create visual effects and drive additional revenue from customer visits.

Typical Applications:

- Theme parks
- Zoos
- Hotels and resorts
- Stadiums
- Gardens
- Pool areas
- Motion picture productions
- Concerts



Photo provided by Atomizing Systems Inc.

Mist Dust Suppression

Misting/fogging is used to control the amount of dust particles in the air. Misting suppresses or removes breathable dust particles, improving air quality and working conditions. Misting also results in equipment life improvement.

Typical Applications:

- Mining
- Conveyor systems
- Crushing and grinding
- Demolition
- Steel mills
- Stockpiles
- Grain and powder transfer
- Livestock buildings



Photo provided by Modern Misting Systems Inc.

Process Cooling

Process cooling uses high pressure mist cooling in manufacturing, power generation and Pre-cooling (HVAC, Cooling Towers, Refrigeration). Misting systems benefits can dramatically improve the quality of products, working environment and efficiencies while reducing production downtime.

Typical Applications:

- Gas turbine cooling
- HVAC systems
- Cooling towers
- Equipment and electronic rooms
- Manufacturing plants
- Pre-cooling
- Injection molding
- Steel casting-machining
- Food processing
- Air scrubbing
- Computer server farms



Photo provided by Atomizing Systems Inc.

Compact Misting Pumps

The 1CX is an incredibly reliable pump designed to keep your systems running. From the oil lubricated drive-end to the specially designed regulator, engineers at Cat Pumps set out to design the best compact misting pump available.

The 1CX is the perfect fit for misting applications that require 0.5 gpm or less. With seals that last thousands of hours before requiring any servicing, the 1CX is small in size but has the same life expectancy as our industrial products.



Model Number Selection Chart

| Series | Flow (1750 rpm) | Regulator | Assemble Option | Motor Option* | Pulse Hose Option |
|--------|-----------------|------------------------|---|---------------|-------------------------|
| 1CX | 013 = .13 gpm | R = Regulator Included | D = Pump and Motor shipped together – not assembled | 1 = 8180 | Blank = No Pulse Hose |
| | 025 = .25 gpm | | | 2 = 8182 | |
| | 050 = .5 gpm | | A = Pump and Motor assembled together | 3 = 8185 | P = Pulse Hose Included |
| | | | | 4 = 8183 | |
| | | | | 5 = 8186 | |

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

* See Motor Options Chart Below

Motor Options

| Motors | 8180 | 8182 | 8185 | 8183 | 8186 |
|------------------|---------------|---------------|---------------|---------------------|---------------|
| Horsepower** | 1/4 Hp | 1/2 Hp | 1/2 Hp | 1/2 Hp | 1/2 Hp |
| Phase | Single | Single | Single | Single | Single |
| Hertz | 60 Hz | 60 Hz | 60 Hz | 50 Hz | 60 Hz |
| Voltage | 115V / 230V | 115V / 230V | 115V / 230V | 115V / 230V | 115V / 230V |
| rpm | 1750 rpm | 1750 rpm | 1750 rpm | 1450 rpm | 1750 rpm |
| Full load amp* | 2.8 / 1.4 | 4.8 / 2.4 | 4.8 / 2.4 | 6.4 / 3.2 | 4.8 / 2.4 |
| Service factor | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Shaft diameter | 1/2" | 1/2" | 1/2" | 1/2" | 1/2" |
| Connection | 12" leads | 12" leads | Terminal Box | Terminal Box | Terminal Box |
| Capacitors | Start and Run | Start and Run | Start and Run | Start and Run | Start and Run |
| Insulation class | E | E | E | F | E |
| Motor type | ODP | ODP | ODP | TEFC | TEFC |
| Compliance | RoHS CSA | RoHS CSA | RoHS CSA | RoHS, CE UL, CSA | RoHS, CSA |
| Weight | 15.80 lbs | 21.75 lbs | 22.25 lbs | 28.85 lbs | 24.55 lbs |

*NOTE: Without pulse hose amp draw will increase as much as 2 amps depending upon pump model and discharge pressure.

** HP Calculation, 1CX Series only = (GPM X PSI) ÷ 1060

Direct Drive Hollow Shaft Pumps

When it comes to getting the job done, customers rely on Cat Pumps. The direct drive hollow shaft pumps are no exception. Designed for continuous duty applications and built to Cat Pumps quality standards, these pumps are preferred by system builders due to their compact size and ease of assembly.

From specially formulated high-pressure seals to concentric polished ceramic plungers, Cat Pumps direct drive pumps provide maximum life. Compact hollow shaft design is a perfect match for standard NEMA 56C and 184C frame electric motors. Flow rates from 0.5 to 4.0 gpm; pressures from 300 to 3000 psi.



Brass Manifold, 1725 RPM

Electric Motor, NEMA, 5/8" – 56C Face and 1-1/8" – 184C Face

| Pump Model | Max. Flow | | Max Pressure | | rpm | Shaft | Flange |
|------------|-----------|------|--------------|-----|------|--------|--------|
| | gpm | lpm | psi | bar | | | |
| 4DX03ELR | 0.3 | 1.1 | 2000 | 138 | 1725 | 5/8" | 56C |
| 4DX10ER | 0.5 | 1.9 | 2000 | 138 | 1725 | 5/8" | 56C |
| 4DX15ER | 0.75 | 2.9 | 2000 | 138 | 1725 | 5/8" | 56C |
| 4DX20ER | 1.0 | 3.8 | 2000 | 138 | 1725 | 5/8" | 56C |
| 4DX27ER | 1.35 | 5.1 | 2000 | 138 | 1725 | 5/8" | 56C |
| 4DX30ER | 1.5 | 5.7 | 2000 | 138 | 1725 | 5/8" | 56C |
| 4SP21ELR | 2.1 | 8.0 | 2000 | 138 | 1725 | 5/8" | 56C |
| 2SF25ELS | 2.5 | 9.5 | 1500 | 103 | 1725 | 5/8" | 56C |
| 4SP29ELR | 2.9 | 11.0 | 1200 | 83 | 1725 | 5/8" | 56C |
| 5SP30ELR | 3.0 | 11.4 | 3000 | 207 | 1750 | 1-1/8" | 184C |
| 5SP35ELR | 3.5 | 13.3 | 2500 | 172 | 1750 | 1-1/8" | 184C |
| 5SP40ELR | 4.0 | 15.2 | 2000 | 138 | 1750 | 1-1/8" | 184C |

HP calculation = (GPM x PSI) ÷ 1460

Brass Manifold, 3450 RPM

Electric Motor, NEMA, 5/8" – 56C Face

| Pump Model | Max. Flow | | Max Pressure | | rpm | Shaft | Flange |
|------------|-----------|------|--------------|-----|------|-------|--------|
| | gpm | lpm | psi | bar | | | |
| 4DX10ER | 1.0 | 3.8 | 2000 | 138 | 3450 | 5/8" | 56C |
| 4DX15ER | 1.5 | 5.7 | 2000 | 138 | 3450 | 5/8" | 56C |
| 4DX20ER | 2.0 | 7.6 | 2000 | 138 | 3450 | 5/8" | 56C |
| 4DX27ER | 2.7 | 10.3 | 2000 | 138 | 3450 | 5/8" | 56C |
| 4DX30ER | 3.0 | 11.4 | 2000 | 138 | 3450 | 5/8" | 56C |
| 2SF35ES | 3.5 | 13.3 | 1500 | 103 | 3450 | 5/8" | 56C |

HP calculation = (GPM x PSI) ÷ 1460

Direct Drive Bell Housing Pumps

Bell housing mounting is designed for easy assembly and compact size, with a smaller footprint compared to belt drive units. Cat Pump bell housings are made from high strength aluminum and anodized for optimal corrosion resistance.

Pump options for direct drive bell housings include brass and 316 stainless steel manifolds. Available flow rates: 2.3 to 10.5 gpm, with pressures up to 4000 psi. Bell housings are available as individual components or assembled as complete pump/motor assemblies.



Brass Manifold, 1725 rpm

Electric Motor - Bell Housing

| Pump Model | Max. Flow | | Max Pressure | | rpm | Shaft |
|------------|-----------|------|--------------|-----|------|---------|
| | gpm | lpm | psi | bar | | |
| 3CP1130 | 2.4 | 9.1 | 2000 | 138 | 1725 | 16.5 mm |
| 3CP1140 | 3.6 | 13.7 | 2200 | 152 | 1725 | 16.5 mm |
| 5CP2140WCS | 4.0 | 15.2 | 2500 | 172 | 1725 | 20 mm |
| 3CP1120 | 4.2 | 16.0 | 2200 | 152 | 1725 | 16.5 mm |
| 5CP4120CSS | 4.5 | 17.1 | 4000 | 276 | 1725 | 20 mm |
| 5CP3120CSS | 4.8 | 18.2 | 3000 | 207 | 1725 | 20 mm |
| 5CP2150W | 5.0 | 19.0 | 2000 | 138 | 1725 | 20 mm |
| 5CP5120 | 6.0 | 22.8 | 2500 | 172 | 1725 | 20 mm |
| 5CP5140CSS | 6.7 | 25.5 | 3000 | 207 | 1725 | 20 mm |
| 5CP6120 | 7.4 | 28.1 | 1200 | 83 | 1725 | 20 mm |
| 56 | 8.0 | 30.4 | 2500 | 172 | 1725 | 24 mm |
| 5CP6180CSS | 8.2 | 31.1 | 1500 | 103 | 1750 | 20 mm |
| 5CP6190 | 10.0 | 38.0 | 1200 | 83 | 1750 | 20 mm |
| 7CP6110CS | 10.5 | 39.9 | 2000 | 138 | 1725 | 24 mm |

HP calculation = (GPM x PSI) ÷ 1460

316 Stainless Steel Manifold, 1725 rpm

Electric Motor - Bell Housing

| Pump Model | Max. Flow | | Max Pressure | | rpm | Shaft |
|------------|-----------|------|--------------|-----|------|---------|
| | gpm | lpm | psi | bar | | |
| 3CP1231 | 2.3 | 8.7 | 2000 | 138 | 1725 | 16.5 mm |
| 3CP1241 | 3.6 | 13.7 | 2000 | 138 | 1725 | 16.5 mm |
| 5CPQ6241CS | 4.0 | 15.2 | 2000 | 138 | 1725 | 20 mm |
| 3CP1221 | 4.2 | 16.0 | 2000 | 138 | 1725 | 16.5 mm |
| 3CP1211CS | 5.0 | 19.0 | 1700 | 117 | 1750 | 16.5 mm |
| 5CPQ6251 | 5.0 | 19.0 | 2000 | 138 | 1725 | 20 mm |
| 5CPQ6221 | 7.4 | 28.1 | 1200 | 83 | 1725 | 20 mm |
| 7CP6111CS | 10.5 | 39.9 | 2000 | 138 | 1725 | 24 mm |

HP calculation = (GPM x PSI) ÷ 1460

Direct Drive Mounting Components

Bell Housing Assembly

| Pump Series | Models | Motor Frame | Bell Housing Assy |
|----------------|--------------------------|-------------|-------------------|
| 3CP Series | All 3CP Models | 56C - 145TC | 76056.3CP |
| | | 182/184TC | 76184.3CP |
| | | 213/215TC | 76215.3CP |
| 5CP Series | All 5CP Models | 56C - 145TC | 76056.5CP |
| | | 182/184TC | 76184.5CP |
| | | 213/215TC | 76215.5CP |
| | | 254/256TC | 76256.5CP |
| 7CP Series | All 7CP Models | 56C - 145TC | 76056.7CP |
| | | 182/184TC | 76184.7CP |
| | | 213/215TC | 76215.7CP |
| | | 254/256TC | 76256.7CP |
| 7FR/8FR Series | 56, 60, 700-760, 781-786 | 182/184TC | 76184.7FR |
| | | 213/215TC | 76215.7FR |
| | | 254/256TC | 76256.7FR |



Bell Housing Series

Flexible Coupler Assembly

| Pump Series | Motor Frame | Flex Coupler Assy | HP Rating |
|------------------|-------------|-------------------|-----------|
| 3CP Series | 56C | 8215 | 3 |
| | 145TC | 8210 | 3 |
| | 182/184TC | 8220 | 3 |
| | 182/184TC | 8225 | 10 |
| | 213/215TC | 8270 | 20 |
| 5CP Series | 56C | 8261 | 10 |
| | 145TC | 8260 | 10 |
| | 182/184TC | 8230 | 10 |
| | 213/215TC | 8275 | 20 |
| | 254/256TC | 8217 | 20 |
| 7CP & 7FR Series | 56C | 8218 | 10 |
| | 182/184TC | 8370 | 10 |
| | 213/215TC | 8375 | 10 |
| | 254/256TC | 8380 | 20 |



Flex Coupler Series

Belt Drive Pumps

Belt drive pumps offer longer life by running at slower speeds, reducing pump wear. For continuous duty applications, an oversized pump running slower can provide over 10,000 hours of operation before needing seal or valve servicing.

Cat Pumps belt-driven pumps can be configured to obtain exact performance required. With the flexibility of varying pulley ratios, flow can be selected regardless of motor or pump rpm.



Brass Manifold

| Pump Model | Max. Flow | | Max Pressure | | Max rpm | Shaft |
|------------|-----------|-------|--------------|-----|---------|---------|
| | gpm | lpm | psi | bar | | |
| 3CP1140 | 3.6 | 13.7 | 2200 | 152 | 1725 | 16.5 mm |
| 5CP2120W | 4.0 | 15.2 | 2500 | 172 | 950 | 20 mm |
| 3CP1120 | 4.2 | 16.0 | 2200 | 152 | 1725 | 16.5 mm |
| 5CP3120 | 4.5 | 17.1 | 3500 | 241 | 1645 | 20 mm |
| 5CP5120 | 5.0 | 19.0 | 3000 | 207 | 1415 | 20 mm |
| 5CP6190 | 8.0 | 30.4 | 1450 | 100 | 1450 | 20 mm |
| 56 | 8.0 | 30.4 | 2500 | 172 | 1725 | 24 mm |
| 5CP6190 | 10.0 | 38.0 | 1200 | 83 | 1725 | 20 mm |
| 7CP6170 | 10.5 | 39.9 | 2000 | 138 | 1450 | 24 mm |
| 1050 | 12.0 | 45.6 | 1800 | 124 | 1150 | 30 mm |
| 1530 | 15.6 | 59.3 | 1500 | 103 | 1450 | 30 mm |
| 1540E | 18.0 | 68.4 | 1200 | 83 | 1100 | 30 mm |
| 2510 | 20.0 | 76.0 | 2000 | 138 | 1450 | 30 mm |
| 2530 | 25.0 | 95.0 | 1200 | 83 | 1025 | 30 mm |
| 3520 | 25.0 | 95.0 | 2000 | 138 | 870 | 35 mm |
| 3535 | 36.0 | 136.8 | 1200 | 83 | 800 | 35 mm |
| 3545 | 45.0 | 171.0 | 1000 | 69 | 765 | 35 mm |
| 3545HS* | 50.0 | 190.0 | 1500 | 103 | 850 | 35 mm |
| 6760 | 60.0 | 228.0 | 1200 | 83 | 520 | 45 mm |

HP calculation = (GPM x PSI) ÷ 1460

*Intermittent duty only – operating pump at stated flow and pressure for no more than 50% of the time in any given hour.

$$\text{Desired RPM} = \text{Desired GPM} \times \frac{\text{Rated RPM}}{\text{Rated GPM}}$$

316 Stainless Steel Manifold

| Pump Model | Max. Flow | | Max Pressure | | Max rpm | Shaft |
|------------|-----------|-------|--------------|-----|---------|---------|
| | gpm | lpm | psi | bar | | |
| 3CP1241 | 3.6 | 13.7 | 2000 | 138 | 1725 | 16.5 mm |
| 3CP1211CS | 5.0 | 19.0 | 1700 | 117 | 1725 | 16.5 mm |
| 5CPQ6221 | 6.0 | 22.8 | 2000 | 138 | 1400 | 20 mm |
| 7CP6171CS | 10.5 | 39.9 | 2000 | 138 | 1450 | 24 mm |
| 1051 | 12.0 | 45.6 | 1800 | 124 | 1150 | 30 mm |
| 1531 | 15.6 | 59.28 | 1500 | 103 | 1450 | 30 mm |
| 1541 | 18.0 | 68.4 | 1200 | 83 | 1100 | 30 mm |
| 2511 | 20.0 | 76.0 | 1500 | 103 | 1450 | 30 mm |
| 2531 | 25.0 | 95.0 | 1200 | 83 | 1025 | 30 mm |
| 3521DHS | 25.0 | 95.0 | 2000 | 138 | 870 | 35 mm |
| 3531D | 36.0 | 136.8 | 1200 | 83 | 800 | 35 mm |
| 3531DHS* | 40.0 | 152 | 2000 | 138 | 888 | 35 mm |
| 3541D | 45.0 | 171 | 1000 | 69 | 765 | 35 mm |
| 6761 | 60.0 | 228 | 1200 | 83 | 520 | 45 mm |
| 67102 | 80.0 | 303 | 1200 | 83 | 500 | 45 mm |
| 67102 | 100.0 | 378 | 1000 | 69 | 680 | 45 mm |

HP calculation = (GPM x PSI) ÷ 1460

*Intermittent duty only – operating pump at stated flow and pressure for no more than 50% of the time in any given hour.

$$\text{Desired RPM} = \text{Desired GPM} \times \frac{\text{Rated RPM}}{\text{Rated GPM}}$$

“The applications I serve often require the pumps to perform at the edge of their operating limits. Cat Pumps are the only pumps that can handle the application variation and still meet the demands in life that customers need.”

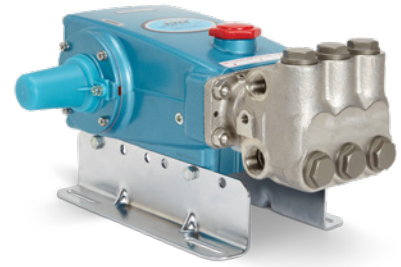
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Flush-Style Pumps

Flush pumps ("K" or "C" option) provide an external seal flush between the high and low pressure seals, adding considerable life to seals and wear elements.

Flush pumps are ideal for applications that pump liquids with poor lubricity properties, such as demineralized or highly purified water, which is often used for inlet turbine fogging. Clean room humidification can also use demineralized water/ high-purity water.

Cat Pumps products have been used with confidence for years on applications with low lubricity fluids. Contact Cat Pumps application specialists to properly size and select pumps and accessories, including power unit system design.



316 Stainless Steel Manifold

| Pump Model | Max. Flow | | Max Pressure | | rpm | Shaft |
|------------|-----------|-------|--------------|-----|------|-------|
| | gpm | lpm | psi | bar | | |
| 311C | 4.0 | 15.2 | 2200 | 152 | 950 | 20 mm |
| 781K | 4.7 | 17.9 | 5000 | 345 | 1750 | 24 mm |
| 1051C | 10.0 | 38.0 | 2200 | 152 | 958 | 30 mm |
| 661C | 10.0 | 38.0 | 3000 | 207 | 1429 | 30 mm |
| 3501C | 10.0 | 38.0 | 5000 | 345 | 915 | 35 mm |
| 7CP6171CCS | 10.5 | 39.9 | 2000 | 138 | 1450 | 24 mm |
| 7CP6111CCS | 10.5 | 39.9 | 2000 | 138 | 1750 | 24 mm |
| 1051C | 12.0 | 45.4 | 1800 | 124 | 1150 | 30 mm |
| 3511C | 14.0 | 53.2 | 3000 | 207 | 800 | 35 mm |
| 6811K | 15.0 | 57.0 | 5000 | 345 | 600 | 45 mm |
| 6801K | 15.0 | 57.0 | 7000 | 483 | 600 | 45 mm |
| 1541C | 18.0 | 68.0 | 1200 | 83 | 1100 | 30 mm |
| 2831K | 25.0 | 95.0 | 1200 | 83 | 1025 | 30 mm |
| 3521C | 25.0 | 95.0 | 2000 | 138 | 870 | 35 mm |
| 6821K | 25.0 | 95.0 | 3000 | 207 | 615 | 45 mm |
| 3531C | 36.0 | 136.2 | 1200 | 83 | 800 | 35 mm |
| 6831K | 40.0 | 152.0 | 2300 | 159 | 625 | 45 mm |
| 3541C | 45.0 | 171.0 | 1000 | 69 | 765 | 35 mm |
| 6841K | 48.0 | 182.4 | 2000 | 138 | 615 | 45 mm |
| 6861K | 60.0 | 228.0 | 1200 | 83 | 520 | 45 mm |
| 67102C | 100.0 | 378.5 | 1000 | 69 | 680 | 45 mm |

HP calculation = (GPM x PSI) ÷ 1460

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

$$\text{Desired RPM} = \text{Desired GPM} \times \frac{\text{Rated RPM}}{\text{Rated GPM}}$$

Custom Pumping Systems

For over 25 years, Cat Pumps has been the industry leader in providing custom-engineered pumping systems to meet a wider range of application needs. By selecting Cat Pumps for your next pumping system, customers eliminate the hassle and expense of designing, multiple source buying, fabrication and testing. The technical sales team assists with proper component selection, as well as installation, 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 experience building thousands of systems, Cat Pumps can help determine the best configuration for any application.

Base

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 • Oil

Advanced Control Options



Ask about advanced control options designed to provide maximum system performance as well as 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.

Accessories

CPC Pressure Regulators

Primary Pressure Control

Brass

| Model | Flow Range | | Pressure Range | |
|-------|------------|------------|----------------|-----------|
| | gpm | lpm | psi | bar |
| 7001 | 0.5 - 5 | 1.9 - 19 | 100 - 1000 | 6.9 - 69 |
| 7002 | 0.5 - 5 | 1.9 - 19 | 500 - 2000 | 35 - 138 |
| 7003 | 0.5 - 5 | 1.9 - 19 | 1500 - 3000 | 103 - 207 |
| 7011 | 1 - 10 | 3.8 - 38 | 100 - 1000 | 6.9 - 69 |
| 7012 | 1 - 10 | 3.8 - 38 | 500 - 2000 | 35 - 138 |
| 7013 | 1 - 10 | 3.8 - 38 | 1500 - 3000 | 103 - 207 |
| 7021 | 2.5 - 25 | 9.5 - 95 | 100 - 1000 | 6.9 - 69 |
| 7022 | 2.5 - 25 | 9.5 - 95 | 500 - 2000 | 35 - 138 |
| 7023 | 2.5 - 25 | 9.5 - 95 | 1500 - 3000 | 103 - 207 |
| 7031 | 3.5 - 35 | 13.2 - 132 | 250 - 1000 | 18 - 69 |
| 7032 | 3.5 - 35 | 13.2 - 132 | 1000 - 2000 | 69 - 138 |
| 7033 | 3.5 - 35 | 13.2 - 132 | 1500 - 3000 | 103 - 207 |

316 Stainless Steel

| Model | Flow Range | | Pressure Range | |
|----------|------------|------------|----------------|-----------|
| | gpm | lpm | psi | bar |
| 7001.100 | 0.5 - 5 | 1.9 - 19 | 100 - 1000 | 6.9 - 69 |
| 7002.100 | 0.5 - 5 | 1.9 - 19 | 500 - 2000 | 35 - 138 |
| 7003.100 | 0.5 - 5 | 1.9 - 19 | 1500 - 3000 | 103 - 207 |
| 7011.100 | 1 - 10 | 3.8 - 38 | 100 - 1000 | 6.9 - 69 |
| 7012.100 | 1 - 10 | 3.8 - 38 | 500 - 2000 | 35 - 138 |
| 7013.100 | 1 - 10 | 3.8 - 38 | 1500 - 3000 | 103 - 207 |
| 7021.100 | 2.5 - 25 | 9.5 - 95 | 100 - 1000 | 6.9 - 69 |
| 7022.100 | 2.5 - 25 | 9.5 - 95 | 500 - 2000 | 35 - 138 |
| 7023.100 | 2.5 - 25 | 9.5 - 95 | 1500 - 3000 | 103 - 207 |
| 7031.100 | 3.5 - 35 | 13.2 - 132 | 250 - 1000 | 18 - 69 |
| 7032.100 | 3.5 - 35 | 13.2 - 132 | 1000 - 2000 | 69 - 138 |
| 7033.100 | 3.5 - 35 | 13.2 - 132 | 1500 - 3000 | 103 - 207 |
| 7376 | 10 - 75 | 38 - 284 | 500 - 2000 | 35 - 138 |



7001

Relief Valves

Primary or Secondary Pressure Control

Brass

| Model | Flow Range | | Pressure Range | |
|----------|------------|-----------|----------------|-----------|
| | gpm | lpm | psi | bar |
| 7085 | 1.0 - 3.5 | 3.8 - 13 | 205 - 2300 | 14 - 158 |
| 7561 | 0 - 4.0 | 0 - 15.1 | 100 - 1000 | 6.9 - 69 |
| 7080 | 2.8 - 7.8 | 9.5 - 30 | 150 - 1450 | 10 - 100 |
| 7082 | 2.8 - 7.8 | 9.5 - 30 | 850 - 3575 | 59 - 246 |
| 7693.100 | 2.5 - 10.5 | 9.5 - 40 | 230 - 2300 | 16 - 60 |
| 7694.100 | 2.5 - 10.5 | 9.5 - 40 | 400 - 4050 | 28 - 280 |
| 7537.100 | 1.0 - 21 | 3.8 - 80 | 230 - 2600 | 16 - 179 |
| 7542.100 | 1.0 - 21 | 3.8 - 80 | 800 - 4000 | 55 - 275 |
| 7595 | 1.0 - 53 | 3.8 - 200 | 260 - 2600 | 18 - 180 |
| 7593.100 | 10 - 52 | 38 - 200 | 750 - 4050 | 51 - 280 |
| 9950.100 | 50 - 120 | 190 - 456 | 100 - 2900 | 6.9 - 200 |

316 Stainless Steel

| Model | Flow Range | | Pressure Range | |
|----------|------------|-----------|----------------|-----------|
| | gpm | lpm | psi | bar |
| 7501.100 | 0.5 - 6.0 | 1.9 - 23 | 100 - 2000 | 6.9 - 138 |
| 7034 | 0 - 21 | 0 - 38 | 400 - 2200 | 28 - 155 |
| 7036 | 0 - 21 | 0 - 38 | 800 - 4000 | 55 - 275 |
| 890709 | 20 - 60 | 76 - 227 | 1500 - 4000 | 103 - 275 |
| 890700 | 30 - 180 | 114 - 680 | 1000 - 3000 | 70 - 207 |



7595

Pop-Off Valves

Secondary Pressure Control

Brass

| Model | Flow Range | | Max Relief Setting | |
|-------|------------|-----|--------------------|-----|
| | gpm | lpm | psi | bar |
| 30961 | 6 | 23 | 4400 | 228 |
| 9940 | 25 | 95 | 4400 | 228 |

316 Stainless Steel

| Model | Flow Range | | Pressure Range | |
|-------|------------|-----|----------------|-----|
| | gpm | lpm | psi | bar |
| 9962 | 6 | 23 | 4400 | 228 |
| 9941 | 25 | 95 | 4400 | 228 |



9941

Accessories

Pressure Gauges

Bottom-mount

| Model | Max psi | bar | Fitting | Port |
|-------|---------|-----|---------------|-------------|
| 6086 | 1500 | 103 | Brass | 1/4" NPT(M) |
| 6088 | 3000 | 207 | Brass | 1/4" NPT(M) |
| 6085 | 1500 | 103 | 316 Stainless | 1/4" NPT(M) |
| 6097 | 3000 | 207 | 316 Stainless | 1/4" NPT(M) |



6088

Misting Nozzles

Leak-Free Check Valve, Inline Screen

| Model | Diameter (mm) | Inlet Port | Max. Pressure | | Flow, 1000 psi (69 bar) | |
|-------|------------------|---------------|---------------|-----|-------------------------|------|
| | | | psi | bar | gpm | lpm |
| 31943 | 0.25 | 1/4" NPT(M) | 1000 | 69 | 0.025 | 0.08 |
| 31944 | 0.3 | 1/4" NPT(M) | 1000 | 69 | 0.055 | 0.2 |
| 31945 | 0.5 | 1/4" NPT(M) | 1000 | 69 | 0.08 | 0.3 |



31943, 31944, 31945

Pulsation Dampeners

Carbon Steel Body, Sealed, Fixed Precharge

| Model | Max Flow | | Pressure Range | | Bladder Material | Volume Cubic Inches | Precharge psi |
|-------|----------|-----|----------------|---------|---------------------|------------------------|------------------|
| | gpm | lpm | psi | bar | | | |
| 6026 | 15 | 57 | 300 - 600 | 20 - 41 | NBR | 10 | 250 |
| 6028 | 15 | 57 | 600 - 1000 | 41 - 69 | NBR | 10 | 450 |



6028

316 SS Fitting and Lower Body with Carbon Steel Upper Body, Adjustable Precharge, Rechargeable

| | | | | | | | |
|------|----|-----|------------|-----------|-----|-----|-----|
| 6029 | 15 | 57 | 100 - 3000 | 6.9 - 207 | NBR | 10 | 450 |
| 6018 | 40 | 151 | 100 - 3000 | 6.9 - 207 | NBR | 45 | 450 |
| 6012 | 70 | 265 | 100 - 1500 | 6.9 - 103 | NBR | 120 | 450 |

Note: Optimal pre-charge should be preset to 50% of operating pressure. To change pre-charge, add .800 to part number and specify pre-charge.



6018

316 Stainless Steel Fitting and Body, Adjustable Precharge, Rechargeable

| | | | | | | | |
|------|----|-----|------------|-----------|-----|-----|-----|
| 6031 | 15 | 57 | 100 - 2400 | 6.9 - 168 | NBR | 10 | 450 |
| 6014 | 25 | 95 | 100 - 2400 | 6.9 - 168 | NBR | 20 | 450 |
| 6013 | 40 | 151 | 100 - 2000 | 6.9 - 138 | FPM | 45 | 450 |
| 6015 | 70 | 265 | 100 - 1500 | 6.9 - 103 | NBR | 120 | 450 |
| 6016 | 40 | 151 | 100 - 2000 | 6.9 - 138 | NBR | 45 | 450 |

Note: Optimal pre-charge should be preset to 50% of operating pressure. To change pre-charge, add .800 to part number and specify pre-charge.



6031

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