CAT PUMPS®
The Pumps with Nine Lives

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.

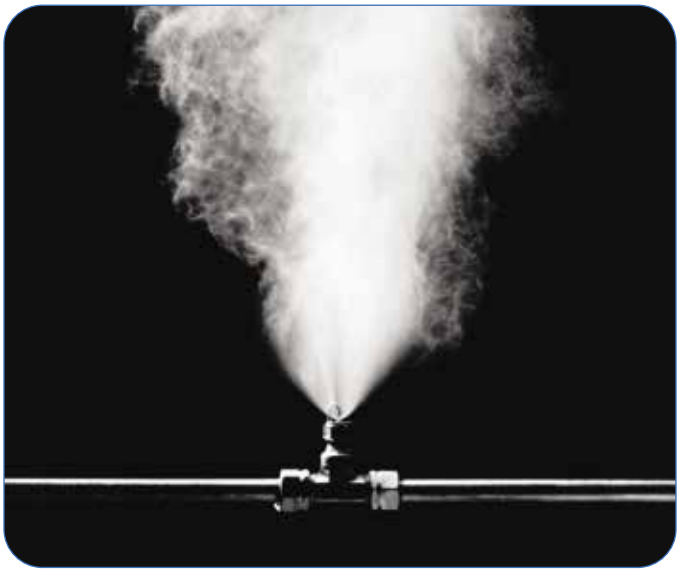


Photo provided by Atomizing Systems Inc.

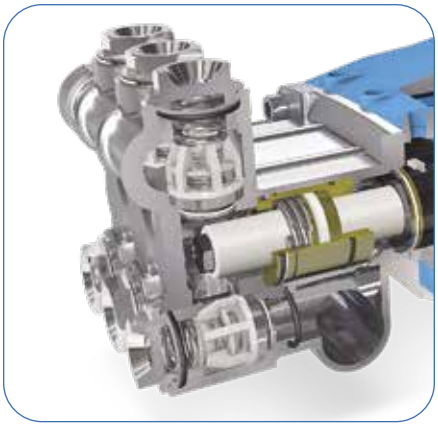
Make every hour count with Cat Pumps. Enjoy these benefits:

- 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

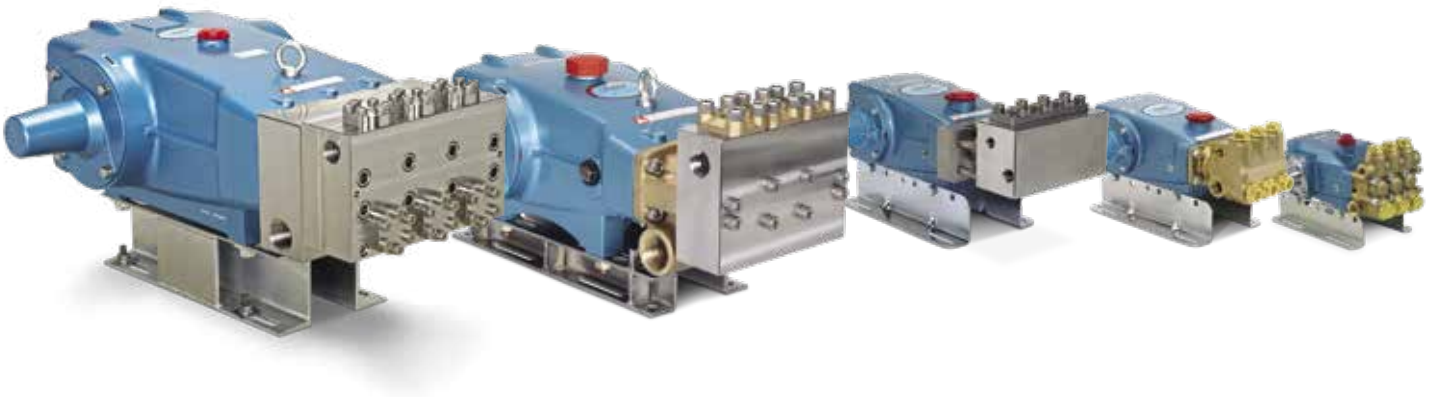


Product Performance Range

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 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.

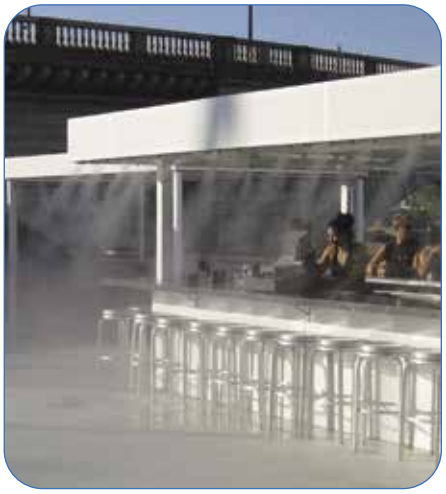


Photo provided by Modern Misting Systems Inc.

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

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.

Photo provided by Atomizing Systems Inc.

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

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, up to 1250 psi. 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 Not Assembled	1 = 8180	Blank = No Pulse Hose
	025 = .25 gpm			2 = 8182	
	050 = .5 gpm		A = Pump and Motor Assembled	4 = 8183	P = Pulse Hose Included
				5 = 8189	

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

*** See Motor Options Chart Below**

Motor Options

MOTORS	8180	8182	8189	8183
Horsepower**	¼ HP	½ HP	½ HP	½ HP
Phase	Single	Single	Single	Single
Hertz	60 Hz	60 Hz	60 / 50 Hz	50 Hz
Voltage	115V / 230V	115V / 230V	115V / 230V	115V / 230V
RPM	1750	1750	1750 /1450	1450
Full Load Amp*	2.8 / 1.4	4.8 / 2.4	4.74 / 2.37	6.4 / 3.2
Service Factor	1.0	1.0	1.15	1.0
Shaft Diameter	½"	½"	½"	½"
Connection	12" Leads	12" Leads	Terminal Box	Terminal Box
Capacitors	Start and Run	Start and Run	Start and Run	Start and Run
Insulation Class	E	E	F	F
Motor Type	ODP	ODP	TEFC	TEFC
Compliance	RoHS CSA	RoHS CSA	RoHS, CE UL, CSA	RoHS, CE UL, CSA
Weight	15.80 lbs	21.75 lbs	25.80 lbs	28.85 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

Designed for continuous-duty applications and built to Cat Pumps' quality standards, system builders prefer these pumps due to their compact size and ease of assembly while providing maximum life. The hollow shaft design perfectly matches standard NEMA 56C and 184C frame electric motors. Flow rates from 0.3 to 4.2 gpm; pressures from 300 to 3000 psi.

BRASS MANIFOLD

NEMA, ⅝" – 56C Face, 1725 RPM

PUMP MODEL	RATED FLOW		RATED PRESSURE			AT 1000 PSI (69 BAR)	
	GPM	LPM	PSI	BAR	RPM	HP	KW
4DX03ELR	0.3	1.1	2000	138	1725	0.3	0.2
4SP21ELR	2.1	8	2000	138	1725	1.4	1.1
4SP29ELR	2.9	11	1200	83	1725	2.0	1.5

HP Calculation = (GPM x PSI) ÷ 1460 **Exception:** 4DX03ELR = (GPM x PSI) ÷ 1060

BRASS MANIFOLD

NEMA, ⅝" – 56C Face, 3450 RPM

PUMP MODEL	RATED FLOW		RATED PRESSURE			AT 1000 PSI (69 BAR)	
	GPM	LPM	PSI	BAR	RPM	HP	KW
4DX10ER	1	3.8	2000	138	3450	0.7	0.5
4DX15ER	1.5	5.7	2000	138	3450	1.0	0.8
4DX20ER	2	7.6	2000	138	3450	1.4	1.0
4DX27ER	2.7	10.3	2000	138	3450	1.8	1.4
4DX30ER	3	11.4	2000	138	3450	2.1	1.5
2SF35ES	3.5	13.3	1500	103	3450	2.4	1.8

3450 rpm models can be run at 1725 rpm for half of the flow
HP Calculation = (GPM x PSI) ÷ 1460

BRASS MANIFOLD

NEMA, 1⅛" – 184C Face, 1750 RPM

PUMP MODEL	RATED FLOW		RATED PRESSURE			AT 1000 PSI (69 BAR)	
	GPM	LPM	PSI	BAR	RPM	HP	KW
5SP30ELR	3	11.4	3000	207	1750	2.1	1.5
5SP35ELR	3.5	13.3	2500	172	1750	2.4	1.8
5SP40ELR	4	15.2	2000	138	1750	2.7	2.0

HP Calculation = (GPM x PSI) ÷ 1460

316 STAINLESS STEEL MANIFOLD

NEMA, ⅝" – 56C Face, 1725 RPM

PUMP MODEL	RATED FLOW		RATED PRESSURE			AT 1000 PSI (69 BAR)	
	GPM	LPM	PSI	BAR	RPM	HP	KW
2SF05SEEL	0.5	1.9	1200	83	1725	0.3	0.3
2SF10SEEL	1	3.8	1200	83	1725	0.7	0.5
2SF15SEEL	1.5	5.7	1200	83	1725	1.0	0.8
2SF22SEEL	2.2	8.3	1200	83	1725	1.5	1.1
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	1200	83	1725	2.9	2.1

HP Calculation = (GPM x PSI) ÷ 1460

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 BELT

Solid Shaft

PUMP MODEL	RATED FLOW		RATED PRESSURE			AT 1000 PSI (69 BAR)	
	GPM	LPM	PSI	BAR	RPM	HP	KW
3CP1130	2.4	9.1	2200	152	1750	1.6	1.2
3CP1140	3.6	13.7	2200	152	1750	2.5	1.8
5CP2120W	4.0	15.2	2500	172	950	2.7	2.0
3CP1120	4.2	16.0	2200	152	1750	2.9	2.1
5CP3160CSS	4.3	16.3	3500	241	1750	2.9	2.2
5CP3120	4.8	18.2	3000	207	1750	3.3	2.5
5CP3150CSS	5.2	19.7	3000	207	1750	3.6	2.7
5CP5120	6.0	22.8	2500	172	1750	4.1	3.1
5CP5140CSS	6.4	24.3	3000	207	1750	4.4	3.3
5CP6120	7.4	28.1	1500	103	1725	5.1	3.8
56	8.0	30.4	2500	172	1760	5.5	4.1
5CP6180CSS	8.2	31.0	1500	103	1750	5.6	4.2
5CP6190	10.0	38.0	1200	83	1750	6.8	5.1
1050	10.0	38.0	2200	152	958	6.8	5.1
7CP6170	11.0	41.6	2000	138	1450	7.5	5.6
1580	12.0	15.4	3000	207	1180	8.2	6.1
1530	15.6	59.3	1500	103	1450	10.7	8.0
2560	16.0	60.5	3000	207	1510	11.0	8.2
1540E	19.3	73.0	1200	83	1180	13.2	9.9
2510	20.0	76.0	2000	138	1450	13.7	10.2
2530	25.0	95.0	1200	83	1025	17.1	12.8
3520	25.0	95.0	2000	138	870	17.1	12.8
3570	30.0	113.6	2500	172	1080	20.5	15.3
3535	36.0	136.2	1200	83	800	24.7	18.4
3535HS*	40.0	152.0	2000	138	888	27.4	20.4
3545	45.0	171.0	1000	69	765	30.8	23.0
3545HS*	50.0	189.3	1500	103	850	34.2	25.5
6760	60.0	228.0	1200	83	520	41.1	30.6

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

STAINLESS BELT

Solid Shaft

PUMP MODEL	RATED FLOW		RATED PRESSURE			AT 1000 PSI (69 BAR)	
	GPM	LPM	PSI	BAR	RPM	HP	KW
3CP1231	2.3	8.7	2000	138	1725	1.6	1.2
3CP1241	3.6	13.7	2000	138	1725	2.5	1.8
5CPQ6241CS	4.0	15.2	2000	138	1725	2.7	2.0
3CP1221	4.2	16	2000	138	1725	2.9	2.1
3CP1211CS	5.0	19	1700	117	1750	3.4	2.6
5CPQ6251	5.0	19	2000	138	1725	3.4	2.6
5CPQ6281CSS	5.5	21	2000	138	1725	3.8	2.8
5CPQ6221	6.0	22.7	2000	138	1400	4.1	3.1
5CPQ6271CSS	6.6	25	1800	124	1725	4.5	3.4
5CPQ6221	7.4	28	1500	103	1725	5.1	3.8
1051	10.0	37.9	2200	152	958	6.8	5.1
7CP6111CS	10.5	39.9	2000	138	1750	7.2	5.4
7CP6171CS	12	45	1800	124	1600	8.2	6.1
1051	12.3	46.5	1800	124	1180	8.4	6.3
1531	15.6	59	1500	103	1450	10.7	8.0
1541	19.3	73	1200	83	1180	13.2	9.9
2511	20	75.7	1500	103	1450	13.7	10.2
3521DHS	25	95	1200	83	870	17.1	12.8
2531	25	94.6	1200	83	1025	17.1	12.8
3531D	36	136.2	1200	83	800	24.7	18.4
3531DHS*	40	151	2000	138	888	27.4	20.4
3541D	45	170.3	1000	69	765	30.8	23.0
3541DHS*	50	189	1500	103	850	34.2	25.5
6761	60	227	1200	83	520	41.1	30.6
67102	80	303	1200	83	500	54.8	40.9
67102	100	378	1000	69	680	68.5	51.1

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

FLUSH BELT

Solid Shaft

PUMP MODEL	RATED FLOW		RATED PRESSURE			AT 1000 PSI (69 BAR)	
	GPM	LPM	PSI	BAR	RPM	HP	KW
301C	3.2	12.2	2200	152	1725	2.2	1.6
311C	4.0	15.2	2200	152	950	2.7	2.0
781K	4.7	17.9	5000	345	1750	3.2	2.4
351C	5.0	19.0	1500	103	1725	3.4	2.6
1051C	10.0	38.0	2200	152	958	6.8	5.1
7CP6111CCS	10.5	39.9	2000	138	1450	7.2	5.4
7CP6171CCS	12.0	45.0	1800	124	1600	8.2	6.1
3511C	14.0	53.2	3000	207	800	9.6	7.2
6811K	15.0	57.0	5000	345	630	10.3	7.7
1541C	19.3	73.0	1200	83	1180	13.2	9.9
2531C	25.0	95.0	1200	83	1025	17.1	12.8
3521C	25.0	95.0	2000	138	870	17.1	12.8
6821K	25.0	95.0	3000	207	615	17.1	12.8
3531C	36	136.2	1200	83	800	24.7	18.4
6831K	40	152.0	2300	159	625	27.4	20.4
3541C	45	171.0	1000	69	765	30.8	23.0
6841K	48	182.4	2000	138	615	32.9	24.5
6861K	60	228.0	1200	83	520	41.1	30.6
67102C	100	378.5	1000	69	680	68.5	51.1

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

Solid Shaft, NEMA Bell Housing

PUMP MODEL	RATED FLOW		RATED PRESSURE		RPM		AT 1000 PSI (69 BAR)	
	GPM	LPM	PSI	BAR	1180	1750	HP	KW
5CP4110CS	2.2	8.4	4000	276		•	1.5	1.1
3CP1130	2.4	9.1	2200	152		•	1.6	1.2
5CP3105CSS	2.5	9.5	3500	241		•	1.7	1.3
5CP4112CSS	2.7	10.3	4000	276		•	1.8	1.4
740	2.9	11	5000	345		•	2.0	1.5
5CP4114CSS	3.2	12.1	4000	276		•	2.2	1.6
3CP1140	3.6	13.7	2200	152		•	2.5	1.8
5CP4116CSS	3.8	14.4	4000	276		•	2.6	1.9
5CP2140WCS	4	15.2	2500	172		•	2.7	2.0
3CP1120	4.2	16	2200	152		•	2.9	2.1
5CP3160CSS	4.3	16.3	3500	241		•	2.9	2.2
5CP4120CSS	4.5	17	4000	276		•	3.1	2.3
5CP3120CSS	4.8	18.2	3000	207		•	3.3	2.5
5CP2150W	5	19	2000	138		•	3.4	2.6
5CP3150CSS	5.2	19.8	3000	207		•	3.6	2.7
5CP5120	6	22.8	2500	172		•	4.1	3.1
5CP5140CSS	6.4	24.3	3000	207		•	4.4	3.3
5CP6120	7.4	28.1	1500	103		•	5.1	3.8
56	8	30.4	2500	172		•	5.5	4.1
5CP6180CSS	8.2	31	1500	103		•	5.6	4.2
5CP6190	10	38	1200	83		•	6.8	5.1
7CP6110CS	10.5	39.9	2000	138		•	7.2	5.4
1580	12	45.6	2425*	167	•		8.2	6.1
1050	12.3	46.7	1800	124	•		8.4	6.3
1530	12.7	48.3	1500	103	•		8.7	6.5
1730	15.8	60	1500	103		•	10.8	8.1
1540E	19.3	73.3	1200	83	•		13.2	9.9

* Maximum pressure with a 20 HP motor. Contact Cat Pumps if higher pressure is required.

316 STAINLESS STEEL MANIFOLD

Solid Shaft, NEMA Bell Housing

PUMP MODEL	RATED FLOW		RATED PRESSURE		RPM		AT 1000 PSI (69 BAR)	
	GPM	LPM	PSI	BAR	1180	1750	HP	KW
3CP1231	2.3	8.7	2000	138		•	1.6	1.2
786	2.9	11	5000	345		•	2.0	1.5
3CP1241	3.6	13.7	2000	138		•	2.5	1.8
5CPQ6241CS	4.0	15.2	2000	138		•	2.7	2.0
3CP1221	4.2	16	2000	138		•	2.9	2.1
781	4.7	17.8	5000	345		•	3.2	2.4
3CP1211CS	5.0	19	1700	117		•	3.4	2.6
5CPQ6251	5.0	19	2000	138		•	3.4	2.6
5CPQ6281CSS	5.5	21	2000	138		•	3.8	2.8
5CPQ6271CSS	6.6	25	1800	124		•	4.5	3.4
5CPQ6221	7.4	28	1500	103		•	5.1	3.8
7CP6111CS	10.5	39.9	2000	138		•	7.2	5.4
1051	12.3	46.5	1800	124	•		8.4	6.3
1531	12.7	48.3	1500	103	•		8.7	6.8
1731	15.8	59.8	1500	10		•	10.8	8.1
1541	19.3	73	1200	83	•		13.2	9.9

"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."

Ali E. • Aniks

Direct Mounting Components

Bell Housings for Motors Provide Assembly Convenience

Cat Pumps bell housings offer a fast and convenient way to mount high-pressure pumps to electric motors in a direct-drive configuration. Bell housings are available as individual components or assembled as a complete pump/motor assembly. Take advantage of Cat Pumps off-the-shelf service for this highly convenient line of electric motor bell housings.

Features:

- Optimal alignment reduces side-loading for longer life, trouble-free operation
- Compact direct mounting reduces space requirement
- Cast from lightweight, high-strength aluminum alloy
- Ease of assembly reduces fabrication costs
- Slotted housings allow easy access to coupler set screws
- Available as a complete drive package for convenient assembly

Cat Pumps offers a wide variety of bell housings and flex coupler assemblies.

Electric, NEMA Mounting Components

BELL HOUSING ASSEMBLY

PUMP SERIES	MODELS	MOTOR FRAME	BELL HOUSING ASSEMBLY
3CP	All 3CP Models	56C–145TC	76056.3CP
		182/184TC	76184.3CP
		213/215TC	76215.3CP
3FR	All 3FR Models	56C–145TC	76056.3FR
		182/184TC	76184.3FR
		213/215TC	76215.3FR
5CP	All 5CP Models	56C–145TC	76056.5CP
		182/184TC	76184.5CP
		213/215TC	76215.5CP
		254/256TC	76256.5CP
5FR	341 – 357	56C–145TC	76056.FR
		182/184TC	76184.5FR
		213/215TC	76215.5FR
7CP	7CP6111CS	56C–145TC	76056.CP
		182/184TC	76184.7CP
		213/215TC	76215.7CP
		254/256TC	76256.7CP
15FR	1051 – 1731	213/215TC	76215.15FR
		254/256TC	76256.15FR
		284/286TC	76286.15FR

FLEXIBLE COUPLER ASSEMBLY

PUMP SERIES	MOTOR FRAME	FLEX COUPLER ASSEMBLY	SHAFT TO SHAFT	TORQUE RATING
3CP	56C	8215	16.5mm x ⅝"	27 ft-lbs
	145TC	8210	16.5mm x ⅞"	27 ft-lbs
	182/184TC	8220	16.5mm x 1⅛"	27 ft-lbs
	182/184TC	8225	16.5mm x 1⅛"	74 ft-lbs
	213/215TC	8270	16.5mm x 1⅜"	92 ft-lbs
5CP & 5FR	56C	8261	20mm x ⅝"	74 ft-lbs
	145TC	8260	20mm x ⅞"	74 ft-lbs
	182/184TC	8230	20mm x 1⅛"	74 ft-lbs
	213/215TC	8275	20mm x 1⅜"	92 ft-lbs
	245/256TC	8217	20mm x 1⅝"	150 ft-lbs
7CP	56C –145TC	8218	24mm x ⅝"	74 ft-lbs
	182/184TC	8370	24mm x 1⅛"	74 ft-lbs
	213/215TC	8375	24mm x 1⅜"	74 ft-lbs
	254/256TC	8380	24mm x 1⅝"	150 ft-lbs
15FR	213/215TC	8388	30mm x 1⅜"	150 ft-lbs
	254/256TC	8382	30mm x 1⅝"	150 ft-lbs
	284/286TC	8383	30mm x 1⅞"	225 ft-lbs

Note: IEC Bell Housing Assemblies and Flex Couplers Assemblies also available, contact Cat Pumps for more information.

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 Monitor
- 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	6.9 – 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	0 – 3.7	0 – 14	203 – 2030	14 – 140
7561	0 – 4.0	0 – 15.1	100 – 1250	6.9 – 86
7080	0 – 8.0	0 – 30	145 – 1450	10 – 100
7082	0 – 8.0	0 – 30	320 – 3200	22 – 220
7693.100	2.5 – 10.5	9.5 – 40	230 – 2300	16 – 160
7694.100	2.5 – 10.5	9.5 – 40	406 – 4060	28 – 280
7537.100	1.0 – 21	3.8 – 80	406 – 2320	28 – 160
7542.100	1.0 – 21	3.8 – 80	406 – 4050	28 – 280
7595	0 – 53	0 – 200	290 – 2900	20 – 200
7593.100	0 – 53	0 – 200	410 – 4050	28 – 280
9950.100	0 – 120	0 – 450	290 – 2900	20 – 200

316 Stainless Steel

MODEL	FLOW RANGE		PRESSURE RANGE	
	GPM	LPM	PSI	BAR
7034	0 – 21	0 – 80	218 – 2175	15 – 150
7036	0 – 21	0 – 80	406 – 4060	28 – 280
890709	20 – 60	76 – 227	1500 – 4000	103 – 276
890706	15 – 260	56 – 984	250 – 1000	17 – 69

7595

Pop–Off Valves

SECONDARY PRESSURE CONTROL

Brass

MODEL	FLOW RANGE		PRESSURE RANGE	
	GPM	LPM	PSI	BAR
33961	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	MAXIMUM PSI	BAR	FITTING	PORT
6086	1500	103	Brass	¼" NPT(M)
6088	3000	207	Brass	¼" NPT(M)
6085	1500	103	316 Stainless	¼" NPT(M)
6097	3000	207	316 Stainless	¼" NPT(M)

6088

Misting Nozzles

Leak-Free Check Valve, Inline Screen

MODEL	DIAMETER (MM)	INLET PORT	MAXIMUM PSI		FLOW, 1000 PSI (69 BAR)	
			PSI	BAR	GPM	LPM
31943	0.25	¼" NPT(M)	1000	69	0.025	0.08
31944	0.3	¼" NPT(M)	1000	69	0.055	0.2
31945	0.5	¼" NPT(M)	1000	69	0.08	0.3

31943, 31944, 31945

Pulsation Dampeners

Carbon Steel Body, Sealed, Fixed Precharge

MODEL	MAXIMUM 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
6022	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.

6022

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
6016	40	151	100 – 2000	6.9 – 138	NBR	45	450
6015	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.

6031

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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