

Pump Catalog



Product Quality, Reliability and Support You Expect www.catpumps.com

World Leader in Triplex Reciprocating High-Pressure Pumps

Every design detail of our products is based on our commitment to produce the highest-quality, longest lasting products available to our customers. Building on our superior design, Cat Pumps quality is further enhanced by manufacturing production in ISO 9001 registered facilities, where repeatable process result in reliable product performance. Cat Pumps maintains a rigorous zero defect quality assurance program to guarantee consistently high quality products — every time.

Nothing outruns, outlasts and outperforms Cat Pumps products. As one of our first customers stated, Cat Pumps produces "The Pumps with Nine Lives."

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 (7 to 689 bar)
- RPM: 100 to 3450
- Liquid Temperature: -10° to 240°F (-23° to 116°C)
- Materials: Brass, Nickel Aluminum Bronze, 304 and 316 Stainless Steel, Duplex Stainless Steel
- Drives: Electric, Engine, Hydraulic, Pneumatic



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 extractor, 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 Se	eal and O-Ring Configurations	
MATERIAL CODE	DESCRIPTION	PUMP MODEL SUFFIX
FPM	Fluorocarbon (Viton®) seals and O-rings, chemical resistance, rated to 180° F (82° C)	.0110
EPDM	Ethylene Propylene Diene Monomer seals and O-rings	.0220
шт	High-temperature seal for plunger pump high pressure seals	.3000
НТ	High-temperature V-HOT cup for piston pumps, rated to 190° F (87° C)	.3000
STHT	Special Teflon® high temperature low and high pressure seals, rated to 200° F (93° C)	.3400
DTFF	Pure Polytetrafluoroethylene (Teflon®) seals and Buna-N O-rings	.0700
PTFE	Pure Polytetrafluoroethylene (Teflon®) seals and FPM O-rings	.0710
IPFE	Pure Polytetrafluoroethylene (Teflon®) seals and Isolast O-rings	.0770
NBRS	Buna-N silicone free seals and O-rings	.6000

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

Example

Pump model 3535 can be changed from Buna-N to either FPM or EPDM. 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, CO_2 , TEG, Flushed, High-Temp and others. Please contact Cat Pumps directly at (763) 780-5440 for more information.

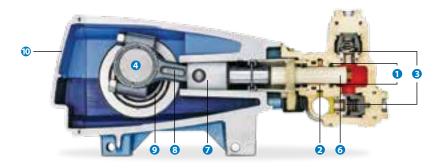
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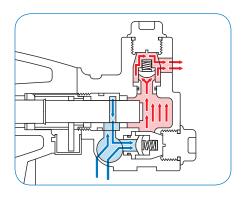
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Pump Design

Plunger Pumps (0.13 – 240 gpm, 100 – 10,000 psi)

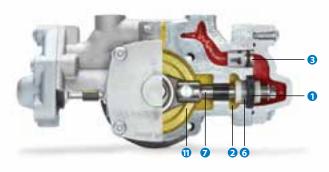


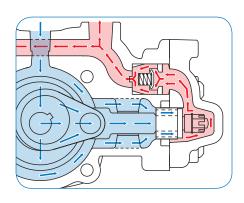


Plunger pumps utilize spring-loaded closed and hydraulically opened inlet and discharge valves to direct flow through the pump manifold. At the beginning of the stroke, the plunger displaces the liquid in the manifold chamber, forcing the discharge valve open. When the plunger reaches the end of the 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. The spring-reinforced, preset packing design of the plunger pumps tolerates significantly greater pressure than piston pumps. The plunger pumps also offer tremendous versatility with optional direct coupling drives and wet-end material options.

XP Series, Plunger Pumps (0.5 – 2 gpm, 100 – 1000 psi)





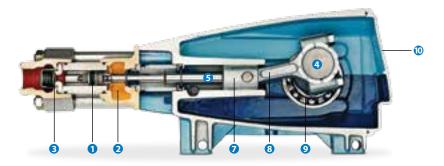
In XP series pumps, fluid enters the inlet port and flows through the drive-end, lubricating the connecting rods and plunger rods as it passes to the inlet valves. Both inlet and discharge valves are spring-loaded closed and hydraulically opened, similar to plunger pumps, however, they utilize a flow-through ceramic plunger design. The continuous forward flow characteristics in conjunction with the packing design of plunger pumps result in improved suction capabilities as well as extended seal life. At the beginning of the stroke, the inlet valve is closed against the ceramic plunger and the flow is forced out through the discharge valve. As the plunger rod begins its backward stroke, the inlet valve opens, moving away from the ceramic plunger, allowing the inlet flow to enter the manifold chamber through the passages in the ceramic plunger.

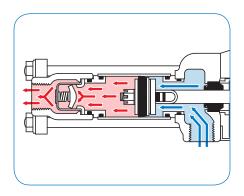
Features

- Specially formulated, Cat Pumps exclusive high-pressure seals/cups 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.
- Stainless steel valves, seats and springs provide corrosionresistance, 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.
- Orecision-polished, solid ceramic plungers provide maximum resistance to corrosion and abrasion, extending seal life.

Pump Design

Piston Pumps (3.0 – 60 gpm, 100 – 1,500 psi)

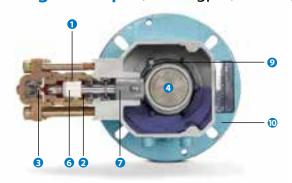


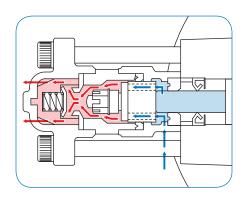


Flow through the piston pump moves continually in one, smooth forward direction. This allows greater suction capabilities and reduces the risk of cavitation. At the beginning of the stroke, the mechanically actuated inlet valve (and piston) will close. As the piston rod moves forward, the liquid is forced 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 discharge chamber, until the stroke is completed.

SF Series, Plunger Pumps (0.5 – 5 gpm, 100 – 3,500 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.

At the beginning of the stroke, the inlet valve is closed against the ceramic plungers and the flow is forced out through the discharge valves. As the plunger rod begins its backward stroke, the inlet valve opens, moving away from the ceramic plunger, allowing the inlet flow to enter the manifold chamber through the passages in the ceramic plunger.

- The high-strength stainless steel plunger rods have a 360° supported crosshead providing uncompromising plunger rod alignment.
- Matched oversized connecting rods are made of high-strength material with exceptional bearing quality.
- Oversized ball bearings or tapered roller bearings provide extended bearing life.
- High-strength, lightweight die cast aluminum crankcase with splash oil design allows operation at speeds as low as 100 rpm.
- Patented greaseless design uses water from inlet as lubrication, eliminating the maintenance and mess of grease or oil.

DIRECT DRIVE, HOLLOW SHAFT, BRASS MANIFOLD

Electric Motor, 5/8" and 3/4", 56C Face



Model 4DX10ER

	MAXIMUM FLOW		MAXIMUM	PRESSURE		CHAPT	POWER	
PUMP MODEL	gpm	lpm	psi	bar	RPM	SHAFT	hp	kW
4DX03ELR	0.3	1.1	1200	83	1725	5/8"	0.24	0.18
2SF10ES	1	3.8	2000	138	3450	5/8"	1.4	1.0
4DX10ER	1	3.8	2000	138	3450	5/8"	1.37	1.02
4DX15ER	1.5	5.7	2000	138	3450	5/8"	2.05	1.53
2SF20ES	2	7.6	2000	138	3450	5/8"	2.7	2.0
4DX20ER	2	7.6	2000	138	3450	5/8"	2.74	2.04
4SP21ELR	2.1	7.9	2000	138	1750	5/8"	2.9	2.16
2SF22ELS	2.2	8.4	2000	138	1725	5/8"	3.0	2.2
2SF22ES	2.2	8.4	2000	138	3450	5/8"	3.0	2.2
4DX27ER	2.7	10.3	2000	138	3450	5/8"	3.7	2.76
2SF29ELS	2.85	10.8	1500	103	1725	5/8"	2.9	2.2
2SF30ES	3	11.4	1500	103	3450	5/8"	3.1	2.3
4DX30ER	3	11.4	2000	138	3450	5/8"	4.11	3.07
2SF30GES	3	11.4	2000	138	3450	3/4"	4.1	3.0
2SF35ES	3.5	13.3	1500	103	3450	5/8"	3.6	2.7
2SF35GES	3.5	13.3	2000	138	3450	3/4"	4.8	3.5

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



Model 2SF10ES

DIRECT DRIVE, HOLLOW SHAFT, BRASS MANIFOLD

Electric Motor, 1 1/8", 184TC Face



Model 4SF45ELS

PUMP MODEL	MAXIMUM FLOW gpm lpm		MAXIMUM psi	PRESSURE bar	RPM	SHAFT	POV hp	VER kW
4SF40ELS	4	15.2	3500	241	1725	1 1/8"	9.6	7.1
4SF45ELS	4.5	17.1	3000	207	1725	1 1/8"	9.2	6.8
4SF50ELS	5	19.0	3000	207	1725	1 1/8"	10.3	7.6

DIRECT DRIVE, HOLLOW SHAFT, BRASS MANIFOLD

Engine, 3/4"

PUMP MODEL	MAXIMUM FLOW		MAXIMUM	RPM	SHAFT	HP	
TOMI MODEL	gpm	lpm	psi	bar		Jimi	Typical Gas Engine*
4DNX25GSI	2.5	9.5	2850	197	3450	3/4"	6.5
4DNX27GSI	2.7	10.3	2850	197	3450	3/4"	8
3DX29GSI	2.9	11.0	2500	172	3450	3/4"	6.5
2SF30GS	3	11.4	2000	138	3450	3/4"	6.5
2SFX30GZ	3	11.4	2500	172	3450	3/4"	8
2SF35GS	3.5	13.3	2000	138	3450	3/4"	8

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

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



Model 4DNX25GSI

DIRECT DRIVE, HOLLOW SHAFT, BRASS MANIFOLD

Engine, 1"

PUMP MODEL	MAXIMU gpm	IM FLOW Ipm	MAXIMUM psi	PRESSURE bar	RPM	SHAFT	HP Typical Gas Engine*
66DX30G1I	3	11.4	4000	276	3450	1"	13
4SPX32G1I	3.2	12.2	3000	207	3450	1"	9
66DX35G1I	3.5	13.3	4000	276	3450	1"	13
66DX40G1I	4	15.2	4000	276	3450	1"	16
4SF45GSI	4.5	17.1	3000	207	3450	1"	13
4SF50GSI	5	19.0	3000	207	3450	1"	16



Model 66DX40G1I

DIRECT DRIVE, HOLLOW SHAFT, 316 STAINLESS STEEL MANIFOLD

Electric Motor, 5/8", 56C Face

PUMP MODEL	MAXIMUM FLOW gpm lpm		MAXIMUM PRESSURE psi bar		RPM	SHAFT	PO\ hp	WER kW
2SF05SEEL	0.5	1.9	1200	83	1725	5/8"	0.4	0.3
2SF10SEEL	1	3.8	1200	83	1725	5/8"	0.8	0.6
2SF15SEEL	1.5	5.7	1200	83	1725	5/8"	1.2	0.9
2SF22SEEL	2.2	8.4	1200	83	1725	5/8"	1.8	1.3
2SF25SEEL	2.5	9.5	1200	83	1725	5/8"	2.1	1.5
2SF29SEEL	2.85	10.8	1200	83	1725	5/8"	2.3	1.7
2SF35SEEL	3.5	13.3	1200	83	1725	5/8"	2.9	2.1
2SF42SEEL	4.2	16.0	1000	69	1725	5/8"	2.9	2.1

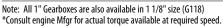


Model 2SF29SEEL

DIRECT DRIVE, HOLLOW SHAFT GEARBOX, BRASS MANIFOLD

Engine, 3/4" and 1"

PUMP MODEL	MAXIMU	M FLOW	MAXIMUM	PRESSURE	RPM		SHAFT	HP
PUMP MODEL	gpm	lpm	psi	bar	Pump	Engine	SHAFT	Typical Gas Engine*
740G1	2.8	10.6	5000	345	1700	3465	1"	13
3CP1120G	3.5	13.3	2200	152	1420	3600	3/4"	8
5CP3160CSSG1	4	15.2	3500	241	1627	3320	1"	13
60G1	4.2	16.0	4000	276	1570	3200	1"	18
5CP3120CSSG1	4.5	17.1	3500	241	1645	3353	1"	16
45G1	4.5	17.1	3500	241	1645	3353	1"	16
700G1	4.5	17.1	5000	345	1700	3465	1"	20
5CP5135CSSG1	5	19.0	3500	241	1515	3090	1"	16
5CP5140CSSG1	5.5	20.9	3500	241	1500	3060	1"	18
5CP6120CSSG1	6.7	25.5	1600	110	1570	3200	1"	8
56G1	8	30.4	2500	172	1760	3600	1"	16
5CP6190G1	8.7	33.1	1200	83	1570	3200	1"	11
7CP6110G1	10	38.0	2000	138	1667	3400	1"	18
7CP6170G1	12	45.6	1800	124	1600	3264	1"	16





Model 56G1



Model 5CP3120CSSG1

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

^{*}Consult engine Mfgr for actual torque available at required speed.

DIRECT DRIVE, HOLLOW SHAFT GEARBOX, 316 STAINLESS STEEL MANIFOLD

Engine, 1"

	PUMP MODEL	MAXIMUM FLOW		MAXIMUM	MAXIMUM PRESSURE		RPM		HP
	TOMI MODEL	gpm	lpm	psi	bar	Pump	Engine	SHAFT	Typical Gas Engine*
-	341G1	4	15.2	2000	138	1725	3515	1"	8
	781G1	4.5	17.1	5000	345	1700	3465	1"	20
	351G1	5	19	1500	103	1725	3515	1"	8
	7CP6111G1	10	38	2000	138	1667	3400	1"	18

POWER

3.3

6.0

8.6

5.4

4.9

6.8

6.3

10.3

12.3

12.9

16.1

9.9

5.1

6.8

10.3

6.1

13.7

8.0

14.4

kW

2.4

4.4

6.4

4.0

3.6

5.1

4.7

7.6

9.1

9.5

11.9

7.3

3.8

5.1

7.6

4.5

10.1

5.9

10.6

SHAFT

16.5 mm

20 mm

20 mm

16.5 mm

20 mm

20 mm

16.5 mm

20 mm

20 mm

24 mm

24 mm

20 mm

20 mm

20 mm

20 mm

20 mm

24 mm

20 mm

24 mm

1725

1725

1725

1725

1725

Note: All 1" Gearboxes are also available in 1 1/8" size. (G118). *Consult engine Mfgr for actual torque available at required speed.



Model 7CP6111G1

DIRECT DRIVE, SOLID SHAFT, BRASS MANIFOLD

6

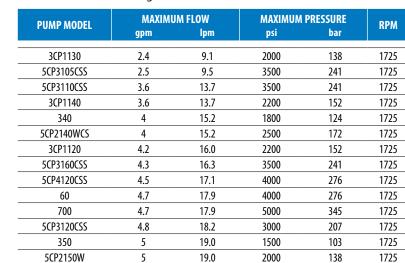
7.4

8

9.7

10.5

Electric Motor - Bell Housing



22.8

28.1

30.4

36.9

39.9



Model 3CP1120



Model 5CP3160CSS

DIRECT DRIVE, SOLID SHAFT, 316 STAINLESS STEEL MANIFOLD

Electric Motor - Bell Housing

5CP5120

5CP6120

56 5CP6190

7CP6110



Model 3CP1231

MAXIMUM FLOW gpm lpm		MAXIMUM psi	PRESSURE bar	RPM	SHAFT	POV hp	VER kW
2.3	8.7	2000	138	1725	16.5 mm	3.2	2.3
3.6	13.7	2000	138	1725	16.5 mm	4.9	3.6
4	15.2	1800	124	1725	20 mm	4.9	3.6
4	15.2	2000	138	1725	20 mm	5.5	4.1
4.2	16.0	2000	138	1725	16.5 mm	5.8	4.3
4.7	17.8	5000	345	1750	24 mm	16.1	12.0
5	19.0	1500	103	1725	20 mm	5.1	3.8
5	19.0	2000	138	1725	20 mm	6.8	5.1
7.4	28.0	1200	83	1725	20 mm	6.1	4.5
10.5	39.9	2000	138	1725	24 mm	14.4	10.6
	2.3 3.6 4 4.2 4.7 5 7.4	gpm lpm 2.3 8.7 3.6 13.7 4 15.2 4 15.2 4.2 16.0 4.7 17.8 5 19.0 5 19.0 7.4 28.0	gpm lpm psi 2.3 8.7 2000 3.6 13.7 2000 4 15.2 1800 4 15.2 2000 4.2 16.0 2000 4.7 17.8 5000 5 19.0 1500 5 19.0 2000 7.4 28.0 1200	gpm lpm psi bar 2.3 8.7 2000 138 3.6 13.7 2000 138 4 15.2 1800 124 4 15.2 2000 138 4.2 16.0 2000 138 4.7 17.8 5000 345 5 19.0 1500 103 5 19.0 2000 138 7.4 28.0 1200 83	gpm lpm psi bar RPM 2.3 8.7 2000 138 1725 3.6 13.7 2000 138 1725 4 15.2 1800 124 1725 4 15.2 2000 138 1725 4.2 16.0 2000 138 1725 4.7 17.8 5000 345 1750 5 19.0 1500 103 1725 5 19.0 2000 138 1725 7.4 28.0 1200 83 1725	gpm lpm psi bar RPM SHAFI 2.3 8.7 2000 138 1725 16.5 mm 3.6 13.7 2000 138 1725 16.5 mm 4 15.2 1800 124 1725 20 mm 4 15.2 2000 138 1725 20 mm 4.2 16.0 2000 138 1725 16.5 mm 4.7 17.8 5000 345 1750 24 mm 5 19.0 1500 103 1725 20 mm 5 19.0 2000 138 1725 20 mm 7.4 28.0 1200 83 1725 20 mm	gpm lpm psi bar RPM SHAFT hp 2.3 8.7 2000 138 1725 16.5 mm 3.2 3.6 13.7 2000 138 1725 16.5 mm 4.9 4 15.2 1800 124 1725 20 mm 4.9 4 15.2 2000 138 1725 20 mm 5.5 4.2 16.0 2000 138 1725 16.5 mm 5.8 4.7 17.8 5000 345 1750 24 mm 16.1 5 19.0 1500 103 1725 20 mm 5.1 5 19.0 2000 138 1725 20 mm 6.8 7.4 28.0 1200 83 1725 20 mm 6.1

2500

1200

2500

1200

2000

172

83

172

83

138

DIRECT DRIVE, SOLID SHAFT, NICKEL ALUMINUM BRONZE MANIFOLD

Electric Motor - Bell Housing

PUMP MODEL	MAXIMU	M FLOW	MAXIMUM	MAXIMUM PRESSURE			POWER	
FOMF MODEL	gpm	lpm	psi	bar	RPM	SHAFT	hp	kW
237	2.3	8.7	1500	103	1725	16.5 mm	2.4	1.7
247	3.6	13.7	1200	83	1725	16.5 mm	3.0	2.2
347	4	15.2	1800	124	1725	20 mm	4.9	3.6
357	5	19.0	1500	103	1725	20 mm	5.1	3.8



Model 277

Direct-Drive Mounting Components

BELL HOUSING ASSEMBLY

PUMP SERIES	MODELS	MOTOR FRAME	BELL HOUSING ASSY
360	2604420 40	56C - 145TC	76056.3CP
3CP Series	3CP1120 - 40, — 3CP1231 - 41 —	182/184TC	76184.3CP
Sches	3CI 1231 41 —	213/215TC	76215.3CP
250	220 270 224 244	56C - 145TC	76056.3FR
3FR Series	230 - 270, 231 - 241, — 237 - 247 —	182/184TC	76184.3FR
Sches	231 241 —	213/215TC	76215.3FR
		56C - 145TC	76056.5CP
5CP	5CP2140WCS - 5CP2150W — 5CP3110CSS - 5CP6190, —	182/184TC	76184.5CP
Series	5CP6221 - 5CP6251	213/215TC	76215.5CP
		254/256TC	76256.5CP
5FR	340 -350, 341 - 351,	182/184TC	76184.5FR
Series	347 - 357	213/215TC	76215.5FR
700		182/184TC	76184.7CP
7CP Series	7CP6110, 7CP6111	213/215TC	76215.7CP
Series		254/256TC	76256.7CP
7FR/8FR	EC CO 700 701 701V	213/215TC	76215.7FR
Series	56, 60, 700, 781, 781K —	254/256TC	76256.7FR



5CP6190BH73



Bell Housing Series

FLEXIBLE COUPLER ASSEMBLY

PUMP SERIES	MOTOR FRAME	FLEX COUPLER ASSY	HP RATING
	56C	8215	3
2CD 0 2ED	145TC	8210	3
3CP & 3FR Series	182/184TC	8220	3
Jelles	182/184TC	8225	10
	213/215TC	8270	20
	56C	8261	10
CCD 0 CED	145TC	8260	10
5CP & 5FR Series	182/184TC	8230	10
Jelles	213/215TC	8275	20
	254/256TC	8217	20
7CD 0 7ED	182/184TC	8370	10
7CP & 7FR Series	213/215TC	8375	10
Jelles	254/256TC	8380	20



Flex Coupler Series

BELT DRIVE, SOLID SHAFT, BRASS AND 304 STAINLESS STEEL MANIFOLD



Model 1810



Model 310



Model 700



Model 5CP2120W

PUMP MODEL	MAXIMU	M FLOW	MAXIMUM	PRESSURE	DDM	RPM SHAFT	POWER	
PUMP MODEL	gpm	lpm	psi	bar	KPM	SHAFI	hp	kW
3CP1130	2.4	9.1	2000	138	1725	16.5 mm	3.3	2.4
5CP3105CSS	2.5	9.5	3500	241	1725	20 mm	6.0	4.4
1810	3	11.4	10000	690	1500	30 mm	20.5	15.2
3CP1140	3.6	13.7	2200	152	1725	16.5 mm	5.4	4.0
5CP3110CSS	3.6	13.7	3500	241	1725	20 mm	8.6	6.4
340	4	15.2	1800	124	1725	20 mm	4.9	3.6
310	4	15.2	2200	152	950	20 mm	6.0	4.5
5CP2120W	4	15.2	2500	172	950	20 mm	6.8	5.1
5CP2140WCS	4	15.2	2500	172	1725	20 mm	6.8	5.1
3CP1120	4.2	16.0	2200	152	1725	16.5 mm	6.3	4.7
5CP3160CSS	4.3	16.3	3500	241	1725	20 mm	10.3	7.6
45	4.5	17.1	3500	241	1645	20 mm	10.8	8.0
5CP3120	4.5	17.1	3500	241	1645	20 mm	10.8	8.0
57	4.5	17.1	4000	276	1285	24 mm	12.3	9.1
5CP4120CSS	4.5	17.1	4000	276	1725	20 mm	12.3	9.1
60	4.7	17.9	4000	276	1725	24 mm	12.9	9.5
700	4.7	17.9	5000	345	1725	24 mm	16.1	11.9
5CP3120CSS	4.8	18.2	3000	207	1725	20 mm	9.9	7.3
310	5	19.0	1500	103	1190	20 mm	5.1	3.8
350	5	19.0	1500	103	1725	20 mm	5.1	3.8
5CP2150W	5	19.0	2000	138	1725	20 mm	6.8	5.1
530	5	19.0	2500	172	1100	24 mm	8.6	6.3
5CP5120	5	19.0	3000	207	1415	20 mm	10.3	7.6
550	5	19.0	3000	207	1415	24 mm	10.3	7.6
5CP5140CSS	5.5	20.9	3500	241	1500	20 mm	13.2	9.8
56	5.5	20.9	3500	241	1210	24 mm	13.2	9.8

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

Required Electric Brake HP* = $\frac{\text{gpm x psi}}{1460}$ Hydraulic Torque (ft. lbs.) = $3.6 \text{ x} \frac{\text{gpm x psi}}{\text{rpm}}$

*Standard 85% Overall Efficiency

BELT DRIVE, SOLID SHAFT, BRASS AND 304 STAINLESS STEEL MANIFOLD

PUMP MODEL	MAXIMU	IM FLOW	MAXIMUM	PRESSURE	RPM	CHAFT	POWER	
PUMP MODEL	gpm	lpm	psi	bar	KPINI	SHAFT	hp	kW
5CP6120	6	22.8	1600	110	1450	20 mm	6.6	4.9
5CP5120	6	22.8	2500	172	1725	20 mm	10.3	7.6
1570	6	22.8	6000	414	1350	30 mm	24.7	18.2
650	7	26.6	3000	207	1000	30 mm	14.4	10.6
5CP6120	7.4	28.1	1200	83	1725	20 mm	6.1	4.5
56	8	30.4	2500	172	1725	24 mm	13.7	10.1
1560	8	30.4	4000	276	1140	30 mm	21.9	16.2
5CP6190	9.7	36.9	1200	83	1725	20 mm	8.0	5.9
1050	10	38.0	2200	152	958	30 mm	15.1	11.2
660	10	38.0	3000	207	1429	30 mm	20.5	15.2
3550	10	38	6000	414	940	35 mm	41.1	30.7
6810	10	38.0	10000	690	600	45 mm	68.5	50.7
7CP6110	10.5	39.9	2000	138	1725	24 mm	14.4	10.6
7CP6170	11	41.6	2000	138	1450	24 mm	15.1	11.2
1050	12	45.4	1800	124	1150	30 mm	14.8	10.9
1580	12	45.4	3000	207	1180	30 mm	24.7	18.4
1530	15.6	59.3	1500	103	1450	30 mm	16.0	11.9
1540E	18	68.4	1200	83	1100	30 mm	14.8	10.9
2510	20	76.0	2000	138	1450	30 mm	27.4	20.3
3560	20	76.0	4000	276	1160	35 mm	54.8	40.5
2530	21	79.8	1200	83	860	30 mm	17.3	12.8
3520	23	87.4	2000	138	800	35 mm	31.5	23.3
2530	25	95.0	1000	69	1025	30 mm	17.1	12.7
3560	25	95.0	3000	207	1450	35 mm	51.4	38.0
3570	30	113.6	3000	207	1080	35 mm	61.6	46.0
3535	36	136.8	1200	83	800	35 mm	29.6	21.9
3537HS*	40	152.0	2000	138	888	35 mm	54.8	43.4
6835	40	152.0	3000	207	625	45 mm	82.2	60.8
3545	45	171.0	1000	69	765	35 mm	30.8	22.8
3545HS*	50	190.0	1500	103	850	35 mm	51.4	38.0
6760	60	228.0	1200	83	520	45 mm	49.3	36.5
6775	75	285.0	1200	83	650	45 mm	61.6	45.6



Model 1570



Model 660



Model 1540E

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.

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

Commonly Used Formulas

 $\frac{\text{Desired}}{\text{rpm}} = \frac{\text{Desired}}{\text{gpm}} \times \frac{\text{Rated rpm}}{\text{Rated gpm}}$

 $\begin{array}{cccc} \text{Pump} & \text{Pump rpm} \\ \text{Pulley*} & \text{X} & \frac{\text{Pump rpm}}{\text{Motor/Engine rpm}} & = & \text{Motor} \\ \end{array}$

*Pitch Diameter



Model 3535

BELT DRIVE, SOLID SHAFT, 316 STAINLESS STEEL MANIFOLD



Model 311



Model 1051



Model 2531



Model 6811

	MAYIMI	IM FLOW	MAYIMIIM	PRESSURE			POWER	
PUMP MODEL	gpm	lpm	psi	bar	RPM	SHAFT	hp	kW
		•						
231	2.3	8.7	1500	103	1725	16.5 mm	2.4	1.7
3CP1231	2.3	8.7	2000	138	1725	16.5 mm	3.2	2.3
271	3.5	13.3	1500	103	1420	16.5 mm	3.6	2.7
241	3.6	13.7	1200	83	1725	16.5 mm	3.0	2.2
3CP1241	3.6	13.7	2000	138	1725	16.5 mm	4.9	3.6
341	4	15.2	1800	124	1725	20 mm	4.9	3.6
5CP6241CS	4	15.2	2000	138	1725	20 mm	5.5	4.1
311	4	15.2	2200	152	950	20 mm	6.0	4.5
3CP1221	4.2	16.0	2000	138	1725	16.5 mm	5.8	4.3
781	4.5	17.1	5000	345	1700	24 mm	15.4	11.4
351	5	19.0	1500	103	1725	20 mm	5.1	3.8
5CP6251	5	19.0	2000	138	1725	20 mm	6.8	5.1
5CP6221	6	22.8	2000	138	1400	20 mm	8.2	6.1
5CP6221	7.4	28.0	1200	83	1725	20 mm	6.1	4.5
1051	10	38	2200	152	958	30 mm	15.1	11.2
1861	10	38	2200	152	958	30 mm	15.1	11.2
3801	10	38	5000	345	915	35 mm	34.2	25.3
7CP6111	10.5	39.9	2000	138	1725	24 mm	14.4	10.6
7CP6171	11	39.9	2000	138	1450	24 mm	14.4	10.6
1051	12	45.6	1800	124	1150	30 mm	14.8	10.9
3811	14	53.2	3000	207	800	35 mm	28.8	21.3
6811	15	57	5000	345	600	45 mm	51.4	38.0
6801	15	57	7000	483	600	45 mm	71.9	53.2
1531	15.6	59.28	1500	103	1450	30 mm	16.0	11.9
1541	18	68.4	1200	83	1100	30 mm	14.8	10.9
2511	20	76	1500	103	1450	30 mm	20.5	15.2
2531	21	79.8	1200	83	860	30 mm	17.3	12.8
2831	21	79.8	1200	83	860	30 mm	17.3	12.8
3521	23	87.4	2000	138	800	35 mm	31.5	23.3
3821	23	87.4	2000	138	800	35 mm	31.5	23.3
2531	25	95	1000	69	1025	30 mm	17.1	12.7
6821	25	95	3000	207	615	45 mm	51.4	38.0
3531	36	136.8	1200	83	800	35 mm	29.6	21.9
3831	36	136.8	1200	83	800	35 mm	29.6	21.9
3531HS*	40	152	2000	138	888	35 mm	54.8	40.5
6831		152	2300	159	625	45 mm	63.0	46.6
3541	40 45	171	1000	69	765		30.8	22.8
3841	45	171		69	-	35 mm		
			1000		765	35 mm	30.8	22.8
6841	48	182.4	2000	138	615	45 mm	65.8	48.7
6761	60	228	1200	83	520	45 mm	49.3	36.5
6861	60	228	1200	83	520	45 mm	49.3	36.5
6771	75	285	1200	83	650	45 mm	61.6	45.6

 $^{^{\}ast}$ Intermittent duty only – operating pump at stated flow and pressure for no more than 50% of time in any given hour.

BELT DRIVE, SOLID SHAFT, DUPLEX STAINLESS STEEL MANIFOLD

PUMP MODEL	MAXIMU gpm	M FLOW	MAXIMUM psi	PRESSURE bar	RPM	SHAFT	PO\ hp	VER kW
	31		•					
1051D	10	38	2200	152	958	30 mm	15.1	11.2
661D	10	38	3000	207	1429	30 mm	20.5	15.2
3501	10	38	5000	345	915	35 mm	34.2	25.3
3511	14	53.2	3000	207	800	35 mm	28.8	21.3
3822	23	87.4	2000	138	800	35 mm	31.5	23.3
3832	36	136.8	1200	83	800	35 mm	29.6	21.9
6762	60	228	1200	83	520	45 mm	49.3	36.5
6862	60	228	1200	83	520	45 mm	49.3	36.5
157R060	100	380	2700	186	310	100 mm	184.9	136.8
152R060	115	437	1200	83	360	100 mm	94.5	69.9
152R080	200	760	1200	83	355	100 mm	164.4	121.6
157R080	200	760	1560	108	355	100 mm	213.7	158.1
152R100	240	912	1000	69	270	100 mm	164.4	121.6



Model 6762

Model 152R100



Model 277



Model 3517

BELT DRIVE, SOLID SHAFT, NICKEL ALUMINUM BRONZE MANIFOLD

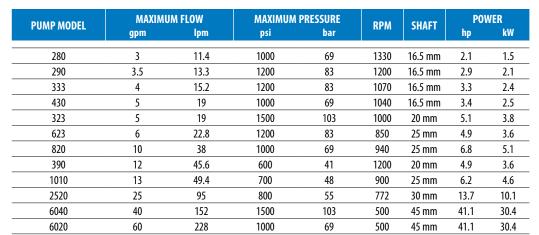
PUMP MODEL	MAXIMU	JM FLOW	MAXIMUM	PRESSURE	RPM	SHAFT	PO	VER
FOMF MODEL	gpm	lpm	psi	bar	NF M	SHAFT	hp	kW
237	2.3	8.7	1500	103	1725	16.5 mm	2.4	1.7
277	3.5	13.3	1500	103	1420	16.5 mm	3.6	2.7
247	3.6	13.7	1200	83	1725	16.5 mm	3.0	2.2
347	4	15.2	1800	124	1725	20 mm	4.9	3.6
317	4	15.2	2200	152	950	20 mm	6.0	4.5
357	5	19.0	1500	103	1725	20 mm	5.1	3.8
1057	10	38	2200	152	958	30 mm	15.1	11.2
3507	10	38	5000	345	915	35 mm	34.2	25.3
1057	12	45.6	1800	124	1150	30 mm	14.8	10.9
3517	14	53.2	3000	207	800	35 mm	28.8	21.3
3527HS*	20	76	2300	159	700	35 mm	31.5	23.3
2537	21	79.8	1200	83	860	30 mm	17.3	12.8
3527	23	87.4	2000	138	800	35 mm	31.5	23.3
3537	36	136.8	1200	83	800	35 mm	29.6	21.9
3537HS*	40	152	2000	138	888	35 mm	54.8	40.5
6747	48	182.4	2000	138	615	45 mm	65.8	48.7
6767	60	228	1200	83	520	45 mm	49.3	36.5
6777	75	285	1200	83	650	45 mm	61.6	45.6

^{*} Intermittent duty only — 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

Belt Drive





Model 280

PISTON P Belt Drive

Model 820

PISTON PUMPS, SOLID SHAFT, 316 STAINLESS STEEL MANIFOLD

PUMP MODEL	MAXIMUM FLOW		MAXIMUM	PRESSURE	DDM	RPM SHAFT	PO	WER
PUMP MODEL	gpm	lpm	psi	bar	KPM	SHAFT	hp	kW
281	3	11.4	1000	69	1330	16.5 mm	2.1	1.5
291	3.5	13.3	1200	83	1200	16.5 mm	2.9	2.1
331	4	15.2	1200	83	1070	16.5 mm	3.3	2.4
431	5	19	1000	69	1040	16.5 mm	3.4	2.5
621	6	22.8	1200	83	850	25 mm	4.9	3.6
821	10	38	1000	69	940	25 mm	6.8	5.1
1011	13	49.4	700	48	900	25 mm	6.2	4.6
2521	25	95	800	55	772	30 mm	13.7	10.1
6041	40	152	1500	103	500	45 mm	41.1	30.4
6021	60	228	1000	69	500	45 mm	41.1	30.4



Model 2520

Model 6020

TECH TIP

Pump Rotation

Forward rotation (toward the manifold) is recommended for optimum lubrication of the crosshead area, increasing drive-end life. If the 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 assures adequate lubrication.



Forward Rotation



Reverse Rotation

Flushed Manifold Pumps

FLUSHED MANIFOLD PUMPS, SOLID SHAFT, BRASS AND 304 STAINLESS STEEL MANIFOLD Belt Drive

PUMP MODEL	MAXIMUM FLOW		MAXIMUM PRESSURE		RPM	SHAFT	POWER	
POMP MODEL	gpm	lpm	psi	bar	NEM	JUNE	hp	kW
1810K	3	11.4	10000	690	1500	30 mm	20.5	15.2
1540EC	18	68.4	1200	83	1100	30 mm	14.8	10.9
3520C	23	87.4	2000	138	800	35 mm	31.5	23.3
3535C	36	136.8	1200	83	800	35 mm	29.6	21.9





Model 3520C

FLUSHED MANIFOLD PUMPS, SOLID SHAFT, 316 STAINLESS STEEL MANIFOLD Rolf Drive

PUMP MODEL	MAXIMUM FLOW		MAXIMUM	MAXIMUM PRESSURE		SHAFT	POWER	
PUMP MODEL	gpm	lpm	psi	bar	RPM	SHAFI	hp	kW
311C	4	15.2	2200	152	950	20 mm	6.0	4.5
781K	4.5	17.1	5000	345	1700	24 mm	15.4	11.4
1051C	10	38	2200	152	958	30 mm	15.1	11.2
1861K	10	38	3000	207	1429	30 mm	20.5	15.2
3801K	10	38	5000	345	915	35 mm	34.2	25.3
7CP6171C	10.5	39.9	2000	138	1450	24 mm	14.4	10.6
7CP6111C	10.5	39.9	2000	138	1750	24 mm	14.4	10.6
3811K	14	53.2	3000	207	800	35 mm	28.8	21.3
6811K	15	57	5000	345	600	45 mm	51.4	38.0
6801K	15	57	7000	483	600	45 mm	71.9	53.2
2831K	21	79.8	1200	83	860	30 mm	17.3	12.8
3521C	23	87.4	2000	138	800	35 mm	31.5	23.3
3821K	23	87.4	2000	138	800	35 mm	31.5	23.3
6821K	25	95	3000	207	615	45 mm	51.4	38.0
3531C	36	136.8	1200	83	800	35 mm	29.6	21.9
3831K	36	136.8	1200	83	800	35 mm	29.6	21.9
6831K	40	152	2300	159	625	45 mm	63.0	46.6
3541C	45	171	1000	69	765	35 mm	30.8	22.8
3841K	45	171	1000	69	765	35 mm	30.8	22.8
6841K	48	182.4	2000	138	615	45 mm	65.8	48.7
6861K	60	228	1200	83	52	45 mm	49.3	36.5

 $Model \ numbers \ ending \ in \ ``C" \ indicates \ flushed \ cast \ manifold, \ ``K" \ indicates \ flushed \ block \ manifold.$



Model 781K



Model 1051C

FLUSHED MANIFOLD PUMPS, SOLID SHAFT, DUPLEX STAINLESS STEEL MANIFOLDBelt Drive

PUMP MODEL	MAXIMUM FLOW		MAXIMUM	MAXIMUM PRESSURE		SHAFT	POWER	
POMP MODEL	gpm	lpm	psi	bar	RPM	SHAFT	hp	kW
3501C	10	38	5000	345	915	35 mm	34.2	25.3
661C	10	38	3000	207	1429	30 mm	20.5	15.2
3511C	14	53.2	3000	207	800	35 mm	28.8	21.3
152R060C	115	437	1200	83	360	100 mm	94.5	69.9
152R080C	200	760	1200	83	355	100 mm	164.4	121.6
152R100C	240	912	1000	69	270	100 mm	164.4	121.6

Model numbers ending in "C" indicates flushed cast manifold, "K" indicates flushed block manifold.



Model 3841K

High Temperature Pumps



Model 1051.3400

.3400 SERIES, HIGH TEMPERATURE AND INTERMITTENT RUN DRY

The ".3400" Series pumps feature specially blended seals and V-packings, expanding pump operating performance to 200° F / 93° C. This modification also allows the pump to run intermittently dry without damaging the seals. Any 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



Model 3CP1120.44101

TRIETHYLENE GLYCOL PUMPS, SOLID SHAFT, BRASS MANIFOLDBelt and Bell Housing Drive

PUMP MODEL	MAXIMUM FLOW			MAXIMUM PRESSURE		SHAFT	POWER	
	gpm	lpm	psi	bar			hp	kW
3CP1130.44101	2.4	9.1	2200	152	1725	16.5 mm	3.6	2.7
5CP3105CS.44101	2.5	9.5	3500	241	1725	20 mm	6.0	4.4
3CP1140.44101	3.6	13.7	2200	152	1725	16.5 mm	5.4	4.0
5CP2120W.44101	4	15.2	2500	172	950	20 mm	6.8	5.1
5CP21040WCS.44101	4	15.2	2500	172	1725	20 mm	6.8	5.1
3CP1120.44101	4.2	16.0	2200	152	1725	16.5 mm	6.3	4.7
5CP6120.44101	6	22.8	1600	110	1400	20 mm	6.6	4.9
1050.44101	10	38.0	2200	152	958	30 mm	15.1	11.2
1050.44101	12	45.6	1800	124	1150	30 mm	14.8	10.9
1540E.44101	18	68.4	1200	83	1100	30 mm	14.8	10.9
2530.44101	21	79.8	1200	83	860	30 mm	17.3	12.8
2530.44101	25	95.0	1000	69	1025	30 mm	17.1	12.7

TRIETHYLENE GLYCOL PUMPS, SOLID SHAFT, 316 STAINLESS STEEL MANIFOLDBelt and Bell Housing Drive



Model 1050.44101

PUMP MODEL	MAXIMUM FLOW		MAXIMUM	RPM	SHAFT	POWER		
FUMF MUDEL	gpm	lpm	psi	bar	NEW	SHAFT	hp	kW
3CP1231.44101	2.3	8.7	2000	138	1725	16.5 mm	3.2	2.3
3CP1241.44101	3.6	13.7	2000	138	1725	16.5 mm	4.9	3.6
5CP6241CS.44101	4	15.2	2000	138	1725	20 mm	5.5	4.1
3CP1221.44101	4.2	16.0	2000	138	1725	16.5 mm	5.8	4.3
5CP6251.44101	5	19.0	2000	138	1725	20 mm	6.8	5.1
5CP6221.44101	6	22.8	2000	138	1400	20 mm	8.2	6.1
1051.44101	10	38.0	2200	152	958	30 mm	15.1	11.2
1051.44101	12	45.6	1800	124	1150	30 mm	14.8	10.9
1541.44101	18	68.4	1200	83	1100	30 mm	14.8	10.9
2531.44101	21	79.8	1200	83	860	30 mm	17.3	12.8
2531.44101	25	95.0	1000	69	1025	30 mm	17.1	12.7

Washout Resistant Pumps

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

Belt and Bell Housing Drive

PUMP MODEL	MAXIMU	MAXIMUM FLOW		PRESSURE	RPM	CU 4 ET	POWER	
PUMP MUDEL	gpm	lpm	psi	bar	KPM	SHAFT	hp	kW
310B	4	15.2	2200	152	950	20 mm	6.0	4.5
5CP2120B	4	15.2	2500	172	950	20 mm	6.8	5.1
340B	4	15.2	1800	124	1725	20 mm	4.9	3.7
5CP2140BCS	4	15.2	2500	172	1725	20 mm	6.8	5.1
350B	5	19	1500	103	1725	20 mm	5.1	3.9
5CP2150B	5	19	2000	138	1725	20 mm	6.8	5.1



Model 310B

Liquid CO₂ Pumps

Cat Pumps liquid CO_2 series of pumps feature modifications to accommodate the unique properties of liquid CO_2 . The seals are modified to handle low lubricity and low temperature that liquid CO_2 applications require. Pump manifolds are modified for inlet pressures to 800 psi (55 bar) and discharge pressures up to 5,000 psi (345 bar). Drive-end and manifold combinations are available to cover a wide flow range of flow from 0 .68 to 30 gpm (2.6 to 113.5 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 ${\rm CO_2}$ 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.



Model 1530RSCM.CO2

Industry Leading Customer Service

Cat Pumps employs a knowledgeable and experienced customer service team that provides assistance with order information, as well as technical assistance in product selection, installation, maintenance support, 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. Email: techsupport@catpumps.com



ATEX Pumps



3560 APPEX

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
- * Excludes models equipped with gearbox
- 7 Frame* Plunger Pumps
- 8 Frame Plunger Pumps
- 15 Frame Plunger Pumps
- 18 Frame Plunger Pumps
- 25 Frame Plunger Pumps
- 28 Frame Plunger Pumps
- 35 Frame Plunger Pumps
- 38 Frame Plunger Pumps
- 60 Frame Plunger Pumps
- 68 Frame Plunger Pumps

MODEL NUMBER SELECTION CHART

Pump with Electric Motor, 1000 psi max pressure



SERIES	FLOW (1750 RPM)	REGULATOR	ASSEMBLE OPTION	MOTOR OPTION*	PULSE HOSE OPTION
1CX	013 = .13 gpm	R = Regulator	$D = Pump \ and \ motor \ shipped \ together - not \ assembled$	1=8180	Blank = No Pulse Hose
	025 = .25 gpm	Included		2=8182	
	050 = .5 gpm		$A = Pump \ and \ motor \ assembled \ together$	3=8185	P = Pulse Hose Included
				4=8183	

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

*Motor Options:

8180 – 1/4 hp, 115/230 V, 60Hz, 1ph, 1750 rpm, 12 inch leads
 8185 – 1/2 hp, 115/230 V, 60Hz, 1ph, 1750 rpm, 12 inch leads
 8185 – 1/2 hp, 115/230 V, 60Hz, 1ph, 1750 rpm, terminal box
 8183 – 1/2 hp, 115/230 V, 50Hz, 1ph, 1450 rpm, terminal box

¹CX Series Compact Misting Pumps

^{*} 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 \div 1060

1XP Series Portable Extractor Pumps

PORTABLE EXTRACTOR PUMPS, DIRECT DRIVE, ALUMINUM MANIFOLD

Electric Motor (Induction) Included

PUMP MODEL	MAXIMUM FLOW		MAXIMUM	PRESSURE	DDM	POWER	
POMP MODEL	gpm	lpm	psi bar		RPM	hp	kW
1XP050.031	0.5	1.9	800	54.4	1725	1/3	0.24
1XP075.031	0.75	2.9	600	40.8	1725	1/3	0.24
1XP085.031	0.85	3.2	600	40.8	1725	1/3	0.24
1XP100.031	1	3.8	500	34.0	1725	1/3	0.24
1XP125.031	1.25	4.8	400	27.2	1725	1/3	0.24
1XP150.031	1.5	5.7	325	22.1	1725	1/3	0.24
1XP200.031	2	7.6	250	17.0	1725	1/3	0.24
1XP050.051	0.4	1.5	1000	68.0	1725	1/2	0.37
1XP075.051	0.7	2.7	1000	68.0	1725	1/2	0.37
1XP085.051	0.8	3.0	1000	68.0	1725	1/2	0.37
1XP100.051	0.9	3.4	800	54.4	1725	1/2	0.37
1XP125.051	1.2	4.6	800	54.4	1725	1/2	0.37
1XP150.051	1.5	5.7	600	40.8	1725	1/2	0.37
1XP200.051	2	7.6	450	30.6	1725	1/2	0.37
1XP150.071	1.4	5.3	800	54.4	1725	3/4	0.55
1XP200.071	2	7.6	550	37.4	1725	3/4	0.55



Model 1XP150.031



PORTABLE EXTRACTOR PUMPS, DIRECT DRIVE, ALUMINUM MANIFOLD

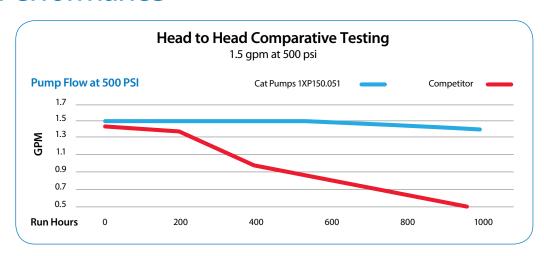
Electric Motor (Permanent Magnet) Included

PUMP MODEL	MAXIMUM FLOW			PRESSURE	RPM		WER kW
	gpm	lpm	psi	bar		hp	KVV
1XP050.03DC	0.5	1.9	600	40.8	1725	1/3	0.24
1XP075.03DC	0.75	2.9	500	34.0	1725	1/3	0.24
1XP085.03DC	0.85	3.2	400	27.2	1725	1/3	0.24
1XP100.03DC	1	3.8	350	23.8	1725	1/3	0.24
1XP125.03DC	1.25	4.8	300	20.4	1725	1/3	0.24
1XP150.03DC	1.5	5.7	250	17.0	1725	1/3	0.24
1XP200.03DC	2.3	8.7	150	10.2	1725	1/3	0.24

Model 1XP150.03DC

Unmatched Performance

For nearly 50 years,
Cat Pumps has been providing
the longest-lasting pumps
available. The durability of
the 1XP Series pumps make
it a great fit for portable
extractors. Head-to-head
testing against competitors
shows once again: when
it comes to long life and
durability, nothing beats
Cat Pumps.



Centrifugal Pumps

304 STAINLESS STEEL CASING

Centrifugal pumps offer solutions for high-flow, low-pressure industrial pumping needs. Typical fluids pumped include fresh water, semi-contaminated water or liquids with some suspended solids. Below is a sampling of popular centrifugal models that include the pump, seal and motor. Most of the pumps listed are rated at 3450 rpm, but many models are available at 1725 rpm. Contact Cat Pumps for more information.



SUBMERSIBLE PUMPS WITH INTEGRAL MOTOR AND SEAL*

45 to 100 gpm (170 to 379 lpm)

PUMP MODEL	MAXIMU	M FLOW	MAXIMUM PRESSURE		JRE	HORSE	POWER	PHASE/VOLTAGE
FUMF MODEL	gpm	lpm	psi	bar	ft/head	hp	kW	PHASE/VULTAGE
1K100	45	170	10	0.69	23	0.3	0.2	1PH / 115V**
1K201	73	276	17	1.17	39	0.5	0.4	1PH / 115V**
1K203	73	276	17	1.17	39	0.5	0.4	1PH / 115V***
1K205	73	276	17	1.17	39	0.5	0.4	3PH / 460V***
1K301	74	280	21	1.45	49	0.8	0.6	1PH / 115V**
1K303	74	280	21	1.45	49	0.8	0.6	1PH / 115V***
1K305	74	280	21	1.45	49	0.8	0.6	3PH / 460V***
2K102	88	333	9	0.62	21	0.5	0.4	1PH / 230V***
2K103	88	333	9	0.62	21	0.5	0.4	1PH / 230V**
2K200	100	379	11	0.76	25	1.0	0.7	1PH / 115V**
2K202	100	379	11	0.76	25	1.0	0.7	1PH / 230V**

 $[\]hbox{*Motor side seal is NBR fitted Carbon/Ceramic and impeller side seal is Viton$^$$ fitted Silicon Carbide/Silicone Carbide.}$

END-SUCTION MOTORIZED UNITS WITH TEFC 56J NEMA MOTOR

38 to 63 gpm (144 to 238 lpm)

<i>3</i> 1 '								
3K132WT0	38	144	62	4.3	143	2.0	1.5	1PH / 115/208-230V
3K132WT3	38	144	62	4.3	143	2.0	1.5	3PH / 208-230/460V
3K392BT3	52	197	13	0.9	30	0.5	0.4	3PH / 208-230/460V
3K142WT0	63	238	32	2.2	74	1.0	0.7	1PH / 115/208-230V
3K142WT3	63	238	32	2.2	74	1.0	0.7	3PH / 208-230/460V
3K152WT0	63	238	44	3.0	102	1.5	1.1	1PH / 115/208-230V
3K152WT3	63	238	44	3.0	102	1.5	1.1	3PH / 208-230/460V
3K162WT3	63	238	63	4.3	146	3.0	2.2	3PH / 208-230/460V

Note: All motors are rated at 3450 rpm except model 3K392BT3 which is rated at 1725. All models listed are equipped with a Viton®/Carbon/Ceramic chemical resistant seal. Buna-N and high temperature seals are also available.

END-SUCTION MOTORIZED UNITS WITH TEFC 213/215JM NEMA MOTOR

153 to 380 gpm (579 to 1,438 lpm)

133 to 300 gpiii (373	to 1, 150 ipi11)							
4K142WT3	153	579	90	6.2	208	0.5	0.4	3PH / 208-230/460V
4K192WT3	250	946	82	5.7	189	1.0	0.7	3PH / 208-230/460V
4K252WT3	380	1,438	84	5.8	194	1.0	0.7	3PH / 208-230/460V

 $Note: All\ motors\ are\ rated\ at\ 3450\ rpm.\ All\ models\ listed\ are\ equipped\ with\ a\ Viton\ \ref{Carbon/Ceramic} Ceramic\ chemical\ resistant\ seal.\ Buna-N\ and\ high\ temperature\ seals\ are\ also\ available.$

SELF-PRIMING MOTORIZED UNITS WITH TEFC 56J NEMA MOTOR

18.5 gpm (70 lpm)

5K112WT0	18.5	70	56	3.9	129	1.0	0.7	1PH / 115/208-230V
5K112WT3	18.5	70	56	3.9	129	1.0	0.7	3PH / 208-230/460V
5K122WT0	18.5	70	82	5.7	189	1.0	0.7	1PH / 115/208-230V
5K122WT3	18.5	70	82	5.7	189	2.0	1.5	3PH / 208-230/460V

Note: All motors are rated at 3450 rpm. All models listed are equipped with a Viton®/Carbon/Ceramic chemical resistant seal. Buna-N and high temperature seals are also available.

^{**}Supplied with automatic float switch

^{***}Manual models, no float switch

Accessories

MAXIMUM SYSTEM PERFORMANCE



Demand Genuine Cat Pumps Accessories

Cat Pumps offers a wide range of accessories that meet the same exacting standards as its pumps. A pumping system's performance is as good as its weakest component, which is why accessory components are rigorously tested and evaluated. The goal is to provide the best system value by offering pumps and accessories that exceed performance and reliability expectations. Cat Pumps products offers the lowest possible life cycle cost.



Check out our complete line of accessories online at **catpumps.com**

Custom Pumping Systems

YOU DEFINE. WE DESIGN AND DELIVER.



Custom Engineered to Meet Your Application Demands



For nearly 30 years, Cat Pumps has been the 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, fabrication and testing. The 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 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.

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 Captive Acceleration Tube (C.A.T.)
- 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.









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

Cat Pumps Locations

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Territories Served

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

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