CAT PUMPS
International Group

Subject: Distributorship

To whom it may concern:

CAT PUMPS is pleased to confirm that **HIGH PRESSURE PUMPS S.A.S.** is an Authorized Distributor of the International Group and provides full sales and service of our products in Colombia.

Sincerely,

James R. Blanner
Director of International Sales

1681 94th Lane N.E., Minneapolis, MN 55449-4324 Phone: 763•786•5440 FAX: 763•785•4329 e-mail: intlsales@catpumps.com

CAT PUMPS®
The Pumps with Nine Lives

HIGH PRESSURE PUMPS

DISTRIBUIDOR AUTORIZADO

PumpCatalog

Product Quality, Reliability and Support You Expect

www.highpresspumps.com.co

World Leader in Triplex Reciprocating High-Pressure Pumps

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

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

Product Performance Range

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

- Flow: 0.13 to 240 gpm (0.49 to 908 lpm)
- Pressure: 100 to 10,000 psi (6.9 to 689 bar)
- RPM: 100 to 3450
- Liquid Temperature: -10° to 240°F (-23° to 115°C)
- Manifold Materials: Brass, Nickel Aluminum Bronze, 304 and 316 Stainless Steel, Duplex Stainless Steel
- Drives: Electric, Engine, Hydraulic, Pneumatic

comercial@highpresspumps.com.co
Cel. 3022971431 - 3204758874

ProductOrdering

UsingThisCatalog

Thepump 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 modelnumbers listed representstandard pumps equipped with Buna-N sealsand O-rings, exceptforspecialtypumps, such as CO2,TEG and portable extractors,which are fitted with unique sealsforthe application.

Standard Buna-N pump sealsand/or O-ringscan be changed by adding a suffix to the standard model number thatrepresents the desired new seal material.

Optional Seal and O-Ring Configurations

MATERIALCODE	DESCRIPTION	MAXTEMPERATURE*	PUMPMODELSUFFIX
NBR	MediumNitrile(Buna-N)sealsandO-Rings	160°F(71°C)	—
FPM	Fluorocarbon(Viton®)sealsandO-Rings,chemicalresistance	180°F(82°C)	.0110
EPDM	EthylenePropyleneDieneMonomersealsandO-Rings	160°F(71°C)	.0220
HT	High-temperaturehighpressureseals	180°F(88°C)	.3000
STHT	High-temperaturehighpressureseals,specialTeflon®low-pressureseals,NBRO-Rings	190°F(88°C)	.3400
	High-temperaturehighpressureseals,specialTeflon®low-pressureseals,FPMO-Rings	190°F(88°C)	.3410
PTFE	PurePolytetrafluoroethylene(Teflon®)SealsandBuna-NO-Rings	190°F(88°C)	.0700
	PurePolytetrafluoroethylene(Teflon®)SealsandFPMO-Rings	200°F(93°C)	.0710
IPFE	I-Perfluoroelastomer(Teflon®)SealsandIsolastO-Rings	200°F(93°C)	.0770
ST4	SpecialblendPTFEhighandlowpressureseals,Buna-NO-Rings	190°F(88°C)	.4400
	SpecialblendPTFEhighandlowpressureseals,FPMO-Rings	200°F(93°C)	.4410
NBRS	Buna-NsiliconefreesealsandO-Rings	160°F(71°C)	.6000

FPM= Fluorocarbon, EPDM = Ethylene Propylene Diene Monomer, HT = High Temp (EPDM Alternative), STHT = Special PTFEHigh Temperature

PTFE= Pure Polytetrafluoroethylene,IPFE= I-Perfluoroelastomer,ST4 = Special PTFE 4, NBR = Medium Nitrile (Buna-N), NBRS = Buna-N silicon free seals and O-Rings

* See individual datasheet for each pump to verifyactual maximum temperature allowed.

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

Example

Pumpmodel3535canbechangedfromBuna-Nto FPM.Toconvertpumpmodel3535fromBuna-NsealsandO-ringsto FPM (Viton®),addthesuffix(.0110)tothestandardpumpmodelnumber(3535.0110).Usethisnewnumberwhenorderingthepump.

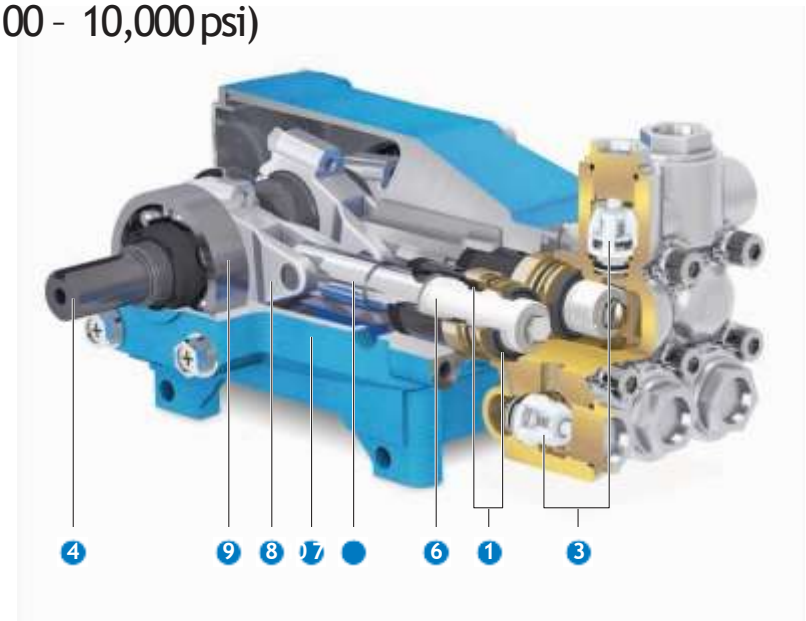
CatPumps configures a number of pumps for specialapplications and certifications such as ATEX, CO2,TEG,Flushed, High-Temp and others. PleasecontactCat Pumps directly at (763) 780-5440formoreinformation.

TableofContents

PumpSelection

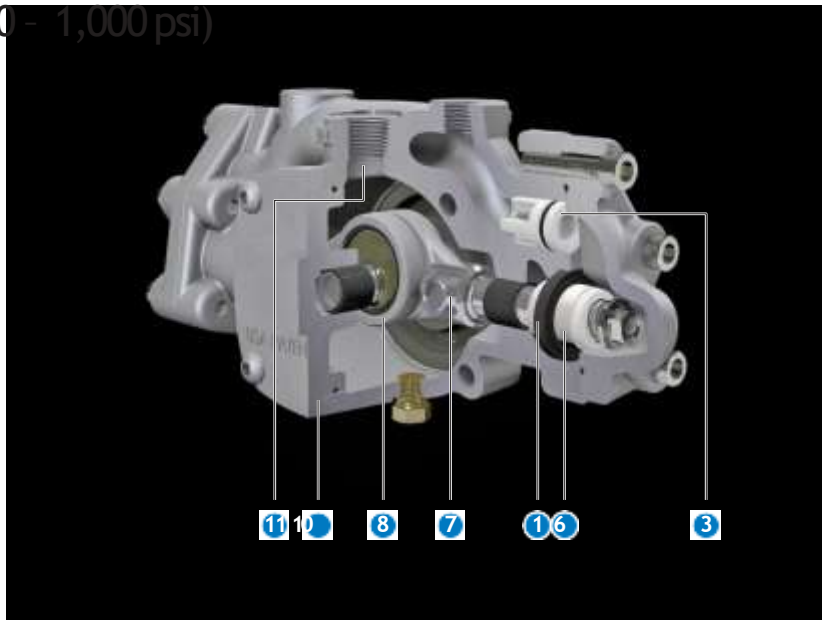
Plunger Pumps (0.13 – 240 gpm, 100 – 10,000 psi)

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 theend of the stroke, the discharge valve closes. As the plunger rod begins its backward stroke, the inlet valve opens to allow more liquid into themanifoldchamber, thereby keeping asmooth forward flow of liquid.



XP Series Pumps (0.5 – 2 gpm, 100 – 1,000 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 aflow- 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.

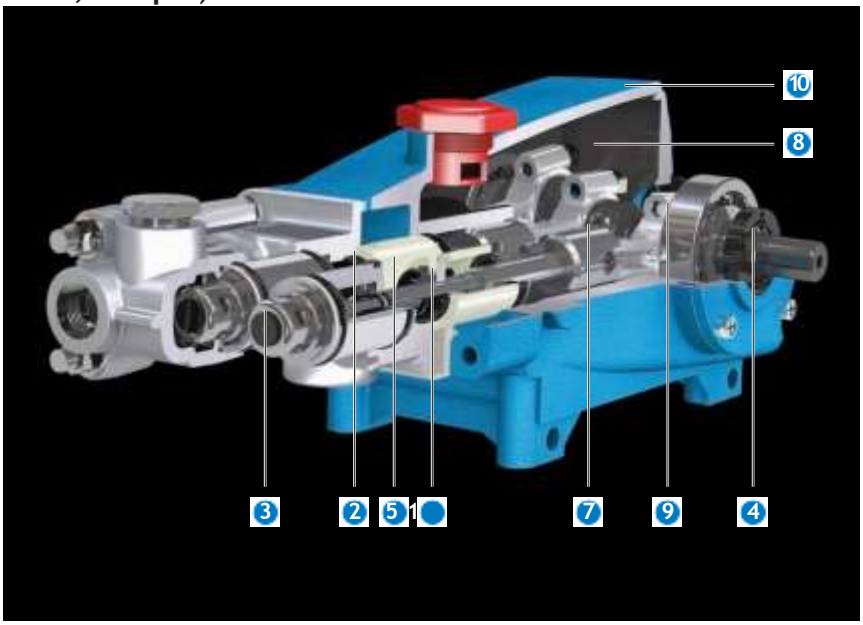


Features

1. Specially formulated, Cat Pumps exclusive high pressure and low pressure seals offer unmatched performance and seallife.
2. 100% wet cup/seal design adds to service life by allowing pumped fluids to cool and lubricate the elastomers on both sides.
3. Stainlesssteel valves, seats,and springs provide corrosion-resistance, positive seating and long life.
4. Chrome-moly crankshaftprovides unmatched strength and surface hardness for long life.
5. Thepatented steppedpistonrod with hard chrome-plated sleeve provides a durable wear surface and easy wet end servicing.
6. Precision-polished, solid ceramic plungers provide maximum resistance to corrosion and abrasion, extending seal life.

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

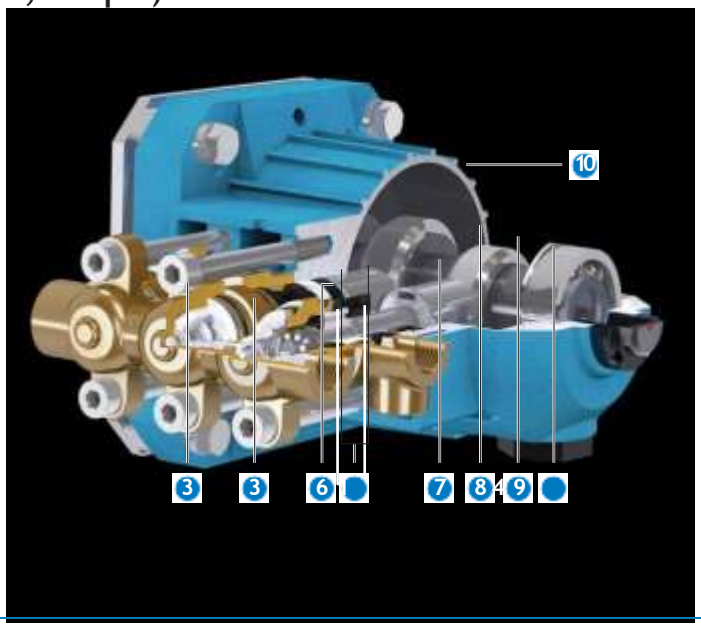
The design of the piston pump is for the fluid to move continually in one, smooth forward direction. This design allows greater suction capabilities and reduces the risk of cavitation providedthe pump is properly primed. At the beginning of the stroke, the mechanically actuated inlet valve (and piston)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



SF Series Pumps (0.5 – 5.0 gpm, 100 – 3,500 psi)

In SF series pumps, both the inlet and discharge valves arespring-loadedclosed 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.



7. The high strength stainless steel plunger rods have a 360° supported crosshead providing uncompromising plunger rodalignment.
8. Matched oversized connecting rods are made of high strength material with exceptionalbearing quality.
9. Oversized ballbearings or tapered roller bearings provide extended bearing life.
10. High Strength, light weight die castaluminum crankcase with splash oil design allows operation at speeds as low as 100 RPM.
11. Patentedgreaseless design uses water from inlet as lubrication, eliminating the maintenance and mess of grease or oil.

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HIGH PRESSURE PUMPS

PlungerPumps

Model4DX10ER

DIRECT DRIVE, HOLLOW SHAFT, BRASS MANIFOLD
Electric Motor, 5/8'and ¾", 56C Face

PUMPMODEL	MAXIMUM FLOW		MAXIMUM PRESSURE		RPM	SHAFT
	GPM	LPM	PSI	BAR		
4DX03ELR	0.3	1.1	2000	138	1725	5/8"
4DX10ER	1.0	3.8	2000	138	3450	5/8"
4DX15ER	1.5	5.7	2000	138	3450	5/8"
4DX20ER	2.0	7.6	2000	138	3450	5/8"
4SP21ELR	2.1	7.9	2000	138	1750	5/8"
4DX27ER	2.7	10.3	2000	138	3450	5/8"
4SP29ELR	2.85	10.8	1200	83	1725	5/8"
4DX30ER	3.0	11.4	2000	138	3450	5/8"
2SF30GES	3.0	11.4	2000	138	3450	¾"
2SF35ES	3.5	13.3	1500	103	3450	5/8"
2SF35GES	3.5	13.3	2000	138	3450	¾"
2SFP50EL	5.0	19.0	500	34.5	1750	5/8"

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

Electric Brake Hp = $\frac{\text{gpm x psi}}{1460}$

Model 2SF22ES

DIRECT DRIVE, HOLLOW SHAFT, BRASS MANIFOLD
Electric Motor, 11/8',184TC Face

PUMPMODEL	MAXIMUM FLOW		MAXIMUM PRESSURE		RPM	SHAFT
	GPM	LPM	PSI	BAR		
5SP30ELR	3.0	11.4	3000	207	1750	1 1/8"
5SP35ELR	3.5	13.3	2500	172	1750	1 1/8"
5SP40ELR	4.0	15.2	2000	138	1750	1 1/8"

Electric Brake Hp = $\frac{\text{gpm x psi}}{1460}$

Model5SP35ELR

DIRECT DRIVE, HOLLOW SHAFT, BRASS MANIFOLD
Engine, ¾"

PUMPMODEL	MAXIMUM FLOW		MAXIMUM PRESSURE		RPM	SHAFT	HP
	GPM	LPM	PSI	BAR			Typical Gas Engine*
4DNX25GSI	2.5	9.5	3000	207	3450	¾"	6.5
4DNX27GSI	2.7	10.3	3000	207	3450	¾"	8
4DX29GUIF	2.9	11.0	2600	179	3450	¾"	6.5
2SF35GS	3.5	13.3	2000	138	3450	¾"	8

*Consult engine manufacturer foractualtorque available at required speed.

Model 66DX40G1I

DIRECT DRIVE, HOLLOW SHAFT, BRASS MANIFOLD
Engine, 1"

PUMPMODEL	MAXIMUM FLOW		MAXIMUM PRESSURE		RPM	SHAFT	HP
	GPM	LPM	PSI	BAR			Typical Gas Engine*
66DX30G1I	3.0	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	4.0	15.2	4000	276	3450	1"	16
66DX50G1I	5.0	19.0	3500	241	3400	1"	13

*Consult engine manufacturer foractualtorque available at required speed.

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PlungerPumps

DIRECT DRIVE, HOLLOW SHAFT, 316 STAINLESS STEEL MANIFOLD
Electric Motor, 5/8",56C Face

PUMPMODEL	MAXIMUM FLOW		MAXIMUM PRESSURE		RPM	SHAFT
	GPM	LPM	PSI	BAR		
2SF05SEEL	0.5	1.9	1200	83	1725	5/8"
2SF10SEEL	1.0	3.8	1200	83	1725	5/8"
2SF15SEEL	1.5	5.7	1200	83	1725	5/8"
2SF22SEEL	2.2	8.4	1200	83	1725	5/8"
2SFQ25SEEL	2.5	9.5	1200	83	1725	5/8"
2SFQ29SEEL	2.85	10.8	1200	83	1725	5/8"
2SFQ35SEEL	3.5	13.3	1200	83	1725	5/8"
2SFQ42SEEL	4.2	15.9	1000	69	1725	5/8"

Electric Brake Hp = $\frac{\text{gpm x psi}}{1460}$

Model 2SF22SEEL

DIRECT DRIVE, HOLLOW SHAFT GEARBOX, BRASS MANIFOLD
Engine, ¾" and 1"

PUMPMODEL	MAXIMUM FLOW		MAXIMUM PRESSURE		RPM	SHAFT	HP
	GPM	LPM	PSI	BAR	ENGINE		Typical Gas Engine*
740G1	2.8	10.6	5000	345	3465	1"	13
3CP1120G	3.5	13.3	2200	152	3600	¾"	8
760G1	3.5	13.3	5000	345	3465	1"	16
5CP3160CSSG1	4.0	15.2	3500	241	3320	1"	13
5CP3120CSSG1	4.5	17.0	3500	241	3353	1"	16
60G1	4.5	17.0	4000	276	3450	1"	18
700G1	4.5	17.0	5000	345	3465	1"	20
5CP3150CSSG1	5.0	19.0	3000	207	3450	1"	13
5CP5135CSSG1	5.8	21.9	3500	241	3450	1"	13
5CP5140CSSG1	6.2	23.4	3000	207	3450	1"	18
5CP6120CSSG1	7.2	27.2	1500	103	3450	1"	8
5CP6180CSSG1	8.0	30.4	1500	103	3450	1"	11
56G1	8.0	30.4	2500	172	3600	1"	16
56HSG1	8.0	30.4	3000	207	3600	1"	22
5CP6190G1	9.7	36.7	1200	83	3450	1"	11
7CP6110CSG1	10.0	38.0	2000	138	3400	1"	18
7CP6160CSG1	10.0	38.0	2500	172	3400	1"	22
7CP6170G1	12.0	45.4	1800	124	3264	1"	16

Note: All 1" Gearboxes arealso available in 1 1/8"size(G118)
*Consult engine manufacturer for actualtorque available at required speed.

Model 56G1

Model5CP3120CSSG1

DIRECT DRIVE, HOLLOW SHAFT GEARBOX, 316 STAINLESS STEEL MANIFOLD
Engine, ¾" and 1"

PUMPMODEL	MAXIMUM FLOW		MAXIMUM PRESSURE		RPM	SHAFT	HP
	GPM	LPM	PSI	BAR	ENGINE		Typical Gas Engine*
3CP1241G	3.0	11.4	2000	138	3600	¾"	5
3CP1211G	3.8	14.4	1500	103	3400	¾"	5
5CPQ6241CSG1	4.0	15.2	2000	138	3600	1"	8
781G1	4.5	17.0	5000	345	3465	1"	20
5CPQ6251G1	5.0	19.0	2000	138	3600	1"	9
5CPQ6221G1	7.4	28.0	1200	83	3600	1"	8
7CP6111CSG1	10.0	38.0	2000	138	3400	1"	18

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

Model7CP6111CSG1

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PlungerPumps

Model 3CP1120

Model5CP3160CSS

Model 3CP1231

Model277

DIRECT DRIVE, SOLID SHAFT, BRASS MANIFOLD
Electric Motor - Bell Housing

PUMPMODEL	MAXIMUM FLOW		MAXIMUM PRESSURE		RPM	SHAFT
	GPM	LPM	PSI	BAR		
5CP4110CSS	2.2	8.4	4000	276	1750	20mm
3CP1130	2.4	9.1	2200	138	1725	16.5mm
5CP3105CSS	2.5	9.5	3500	241	1750	20mm
5CP4112CSS	2.7	10.3	4000	276	1750	20mm
740	2.9	11.0	5000	345	1750	24mm
5CP4114CSS	3.2	12.1	4000	276	1750	20mm
3CP1140	3.6	13.7	2200	152	1725	16.5mm
5CP3110CSS	3.6	13.7	3500	241	1750	20mm
760	3.6	13.6	5000	345	1750	24MM
5CP4116CSS	3.8	14.4	4000	276	1750	20mm
5CP2140WCS	4.0	15.2	2500	172	1725	20mm
3CP1120	4.2	16.0	2200	152	1725	16.5mm
5CP4118CSS	4.2	16.0	4000	276	1750	20mm
5CP3160CSS	4.3	16.3	3500	241	1750	20mm
5CP4120CSS	4.5	17.0	4000	276	1750	20mm
60	4.7	17.9	4000	276	1750	24mm
700	4.7	17.9	5000	345	1750	24mm
5CP3120CSS	4.8	18.2	3000	207	1750	20mm
5CP2150W	5.0	19.0	2000	138	1725	20mm
5CP3150CSS	5.2	19.8	3000	207	1750	20mm
5CP5120	6.0	22.8	2500	172	1750	20mm
5CP5135CSS	6.0	22.8	3500	241	1750	20mm
5CP5140CSS	6.4	24.3	3000	207	1750	20mm
5CP6120	7.4	28.1	1200	83	1725	20mm
56	8.0	30.4	2500	172	1760	24mm
56HS	8.0	30.4	3000	207	1760	24mm
5CP6180CSS	8.2	31.0	1500	103	1750	20MM
5CP6190	10.0	38.0	1200	83	1750	20mm
7CP6110CS	10.5	39.9	2000	138	1750	24mm
7CP6160CS	10.6	40.1	2500	172	1750	24mm

Electric Brake Hp = $\frac{\text{gpm x psi}}{1460}$

DIRECT DRIVE, SOLID SHAFT, 316 STAINLESS STEEL MANIFOLD
Electric Motor - Bell Housing

PUMPMODEL	MAXIMUM FLOW		MAXIMUM PRESSURE		RPM	SHAFT
	GPM	LPM	PSI	BAR		
3CP1231	2.3	8.7	2000	138	1725	16.5mm
784	2.9	11.0	5000	345	1750	24mm
3CP1241	3.6	13.7	2000	138	1725	16.5mm
786	3.6	13.7	5000	345	1750	24mm
5CPQ6241CS	4.0	15.2	2000	138	1725	20mm
3CP1221	4.2	16.0	2000	138	1725	16.5mm
781	4.7	17.8	5000	345	1750	24mm
3CP1211CS	5.0	19.0	1700	117	1750	16.5mm
5CPQ6251	5.0	19.0	2000	138	1725	20mm
5CPQ6261CSS	5.5	20.9	2000	138	1725	20mm
5CPQ6271CSS	6.6	25.1	1800	124	1725	20mm
5CPQ6221	7.4	28.0	1200	83	1725	20mm
7CP6111CS	10.5	39.9	2000	138	1750	24mm

DIRECT DRIVE, SOLID SHAFT, NICKEL ALUMINUM BRONZE MANIFOLD
Electric Motor - Bell Housing

PUMPMODEL	MAXIMUM FLOW		MAXIMUM PRESSURE		RPM	SHAFT
	GPM	LPM	PSI	BAR		
237	2.3	8.7	1500	103	1725	16.5mm
247	3.6	13.7	1200	83	1725	16.5mm
277	4.2	16.0	1000	69	1725	16.5mm
347	4.0	15.2	1800	124	1725	20mm
357	5.0	19.0	1500	103	1725	20mm

Electric Brake Hp = $\frac{\text{gpm x psi}}{1460}$

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Direct-Drive MountingComponents

BELL HOUSINGASSEMBLY, NEMA AND SAE

S				* A2	76SAEA23CP
3CP Series	All 3CPModels	56C- 145TC	76056.3CP		
		182/184TC	76184.3CP	B2	76SAEB23CP
		213/215TC	76215.3CP	B4	76SAEB43CP
3FR Series	230- 270,231,241, 271,237,247	56C- 145TC	76056.3FR	A2	76SAEA23FR
		182/184TC	76184.3FR	B2	76SAEB23FR
		213/215TC	76215.3FR	B4	76SAEB43FR
5CP Series	All 5CPModels	56C- 145TC	76056.5CP	A2	76SAEA25CP
		182/184TC	76184.5CP	B2	76SAEB25CP
		213/215TC	76215.5CP	B4	76SAEB45CP
		254/256TC	76256.5CP		
5FR Series	340, 350, 341,351, 347,357	56C- 145TC	76056.5FR	A2	76SAEA25FR
		182/184TC	76184.5FR	B2	76SAEB25FR
		213/215TC	76215.5FR	B4	76SAEB45FR
7CP Series	All 7CPModels	182/184TC	76184.7CP	A2	76SAEA27CP
		213/215TC	76215.7CP	B2	76SAEB27CP
		254/256TC	76256.7CP	B4	76SAEB47CP
7FR/8FR Series	56-60,700-760, 781-786	182/184TC	76184.7FR	A2	76SAEA27FR
		213/215TC	76215.7FR	B2	76SAEB27FR
		254/256TC	76256.7FR	B4	76SAEB47FR
15FR Series	All 15FRModels	213/215TC	76215.15FR	B2	76SAEB215FR
		254/256TC	76256.15FR	B4	76SAEB415FR
		284/286TC	76286.15FR		
35FR Series	All 35FRModels			C2/C4	76SAEC35FR

Bell housing assemblies include mounting hardware and flange

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

IECBellhousingavaildeuponrequest

(Electric)


Bell Housing Assembly (Hydraulic)

FLEXIBLE COUPLER ASSEMBLY, NEMA AND SAE

SERIE				* A2	8271	16.5mmx5/8"	KA-INC
3CP& 3FR	56C	8215	27ft/lbs				
	145TC	8210	27ft/lbs	B2	8272	16.5mmx7/8"	115ft/lbs
	182/184TC	8220	27ft/lbs	B4	8272	16.5mmx7/8"	115ft/lbs
	182/184TC	8225	174ft/lbs				
	213/215TC	8270	92ft/lbs				
5CP& 5FR	56C	8261	74 ft/lbs	A2	8273	20mmx5/8"	115ft/lbs
	145TC	8260	74 ft/lbs	B2	8274	20mmx7/8"	115ft/lbs
	182/184TC	8230	74 ft/lbs	B4	8274	20mmx7/8"	115ft/lbs
	213/215TC	8275	92ft/lbs				
	254/256TC	8217	150ft/lbs				
7CP& 7FR	56C	8218	74ft/lbs				
	182/184TC	8370	74ft/lbs	A2	8371	24mmx5/8"	145ft/lbs
	213/215TC	8375	74ft/lbs	B2	8372	24mmx7/8"	145ft/lbs
	254/256TC	8380	150ft/lbs	B4	8372	24mmx7/8"	145ft/lbs
15FR	213/215TC	8388	150ft/lbs	B2/B4	8387	30mmx7/8"	92ft/lbs
	254/256TC	8382	150ft/lbs				
	284/286TC	8383	225ft/lbs				
35FR				C2/C4	997872	35mmx1¼"	350ft/lbs
				C2/C4	999368	35mmx13/8"	350ft/lbs
				C2/C4	994403	35mmx1½"	350ft/lbs
				C2/C4	999180	35mmx15/8"	350ft/lbs
				C2/C4	999206	35mmx17/8"	350ft/lbs

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

IEC FlexibleCoupler Assembly available upon request.


Flex CouplerSeries

comercial@highpresspumps.com.co
Cel. 3022971431 - 3204758874

PlungerPumps

SOLID SHAFT, BRASS MANIFOLD

Model 1810

Model 310

Model 700

Model 5CP2120W

PUMP MODEL	MAXIMUM FLOW		MAXIMUM PRESSURE		RPM	SHAFT
	GPM	LPM	PSI	BAR		
5CP4110CSS	2.2	8.4	4000	276	1750	20mm
3CP1130	2.4	9.1	2200	138	1725	16.5mm
5CP3105CSS	2.5	9.5	3500	241	1750	20mm
5CP4112CSS	2.7	10.3	4000	276	1750	20mm
740	2.9	11.0	5000	345	1750	24mm
1810**	3.0	11.4	10000	689	1500	30mm
5CP4114CSS	3.2	12.1	4000	276	1750	20mm
3CP1140	3.6	13.7	2200	152	1725	16.5mm
5CP3110CSS	3.6	13.7	3500	241	1750	20mm
760	3.6	13.7	5000	345	1750	24mm
5CP4116CSS	3.8	14.4	4000	276	1750	20mm
310	4.0	15.2	2200	152	950	20mm
5CP2120W	4.0	15.2	2500	172	950	20mm
5CP2140WCS	4.0	15.2	2500	172	1725	20mm
3CP1120	4.2	16.0	2200	152	1725	16.5mm
5CP4118CSS	4.2	16.0	4000	276	1750	20mm
5CP3160CSS	4.3	16.3	3500	241	1750	20mm
5CP3120CSS	4.5	17.0	3500	241	1645	20mm
57	4.5	17.0	4000	276	1285	24mm
5CP4120CSS	4.5	17.0	4000	276	1750	20mm
60	4.7	17.9	4000	276	1750	24mm
700	4.7	17.9	5000	345	1750	24mm
5CP3120CSS	4.8	18.2	3000	207	1750	20mm
310	5.0	19.0	1500	103	1190	20mm
5CP2150W	5.0	19.0	2000	138	1725	20mm
530	5.0	19.0	2500	172	1100	24mm
5CP5120	5.0	19.0	3000	207	1415	20mm
5CP3150CSS	5.2	19.7	3000	207	1750	20mm
56	5.5	20.9	3500	241	1210	24mm
5CP5140CSS	5.5	20.9	3500	241	1500	20mm

** 17 - 4SS Stainless Manifolds

Electric Brake Hp = $\frac{\text{gpm x psi}}{1460}$

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 withadequate horsepower to handle themaximum system flow and pressure required.

Commonly UsedFormulas

Required Electric Brake HP* = $\frac{\text{gpm x psi}}{1460}$

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

*Standard 85% Overall Efficiency

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PlungerPumps

SOLID SHAFT, BRASS MANIFOLD

PUMPMODEL	MAXIMUM FLOW		MAXIMUM PRESSURE		RPM	SHAFT
	GPM	LPM	PSI	BAR		
5CP6120	6.0	22.8	1600	110	1400	20mm
5CP5120	6.0	22.8	2500	172	1750	20mm
5CP5135CSS	6.0	22.8	3500	241	1750	20mm
1570	6.0	22.8	6000	414	1350	30mm
5CP5140CSS	6.4	24.3	3000	207	1750	20mm
5CP6180CSS	6.9	26.1	1500	103	1450	20mm
650	7.0	26.6	3000	207	1000	30mm
5CP6120	7.4	28.1	1200	83	1725	20mm
5CP6190	8.0	30.4	1450	100	1450	20mm
56	8.0	30.4	2500	172	1760	24mm
56HS	8.0	30.4	3000	207	1760	24mm
5CP6180CSS	8.2	31.0	1500	103	1750	20mm
1560	9.0	34.0	4000	276	1280	30mm
5CP6190	10.0	38.0	1200	83	1750	20mm
1050	10.0	38.0	2200	152	958	30mm
660	10.0	38.0	3000	207	1429	30mm
3550	10.0	38.0	6000	414	940	35mm
6810**	10.0	38.0	10000	689	600	45mm
7CP6110CS	10.5	39.9	2000	138	1725	24mm
7CP6160CS	10.6	40.1	2500	172	1750	24mm
7CP6170	11.0	41.6	2000	138	1450	24mm
1050	12.0	45.4	1800	124	1150	30mm
7CP6170	12.0	45.4	1800	124	1600	24mm
1580	12.0	45.4	3000	207	1180	30mm
1530	15.6	59.3	1500	103	1450	30mm
1540E	18.0	68.4	1200	83	1100	30mm
2510	20.0	76.0	2000	138	1450	30mm
3560	20.0	76.0	4000	276	1160	35mm
2530	25.0	95.0	1200	83	1025	30mm
3520	25.0	95.0	2000	138	870	35mm
3560	25.0	95.0	3000	207	1450	35mm
3570*	30.0	113.6	3000	207	1080	35mm
3535	36.0	136.2	1200	83	800	35mm
3535HS*	40.0	152.0	2000	138	888	35mm
6835	40.0	152.0	3000	207	625	45mm
3545	45.0	171.0	1000	69	765	35mm
3545HS*	50.0	189.3	1500	103	850	35mm
67070	50.0	189.3	2000	138	653	45mm
6760	60.0	228.0	1200	83	520	45mm
67070*	65.0	246.0	2000	138	850	45mm
6775	75.0	285.0	1200	83	650	45mm

* Intermittentduty only - operating pump atstated flow and pressure for no more than 50% of time in any given hour.
** 304 Stainless Manifolds

Electric Brake Hp = $\frac{\text{gpm x psi}}{1460}$

Model 1570

Model660

Model 1540E

Model 3535

Selecting a Drive

A variety of different drive options are offered by Cat Pumps. Most systems are belt-driven by apulley or clutch, but there are also direct-drive options such as direct coupled, gearboxor hollowshaftdirect drive.

Commonly UsedFormulas

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

$$\text{Pump Pulley*} \times \frac{\text{Pumprpm}}{\text{Motor/Engine rpm}} = \text{Motor Pulley*}$$

*Pitch Diameter

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PlungerPumps

SOLID SHAFT, 316 STAINLESS STEEL MANIFOLD

Model 311

Model 1051

Model 2531

Model 6811

PUMP MODEL	MAXIMUM FLOW		MAXIMUM PRESSURE		RPM	SHAFT
	GPM	LPM	PSI	BAR		
3CP1231	2.3	8.7	2000	138	1725	16.5mm
784	2.9	11.0	5000	345	1750	24mm
3CP1241	3.6	13.7	2000	138	1725	16.5mm
786	3.6	13.7	5000	345	1750	24mm
341	4.0	15.2	1800	124	1725	20mm
5CPQ6241CS	4.0	15.2	2000	138	1725	20mm
311	4.0	15.2	2200	152	950	20mm
3CP1221	4.2	16.0	2000	138	1725	16.5mm
781	4.7	17.9	5000	345	1750	24mm
351	5.0	19.0	1500	103	1725	20mm
3CP1211CS	5.0	19.0	1700	117	1750	16.5mm
5CPQ6251	5.0	19.0	2000	138	1725	20mm
5CPQ6221	6.0	22.8	2000	138	1400	20mm
5CPQ6221	7.4	28.0	1200	83	1725	20mm
1051	10.0	38.0	2200	152	958	30mm
3501	10.0	38.0	5000	345	915	35mm
7CP6111CS	10.5	39.9	2000	138	1725	24mm
7CP6171CS	10.5	39.9	2000	138	1450	24mm
1051	12.0	45.4	1800	124	1150	30mm
3511	14.0	53.2	3000	207	800	35mm
6811	15.0	57.0	5000	345	600	45mm
6801	15.0	57.0	7000	483	600	45mm
1531	15.6	59.0	1500	103	1450	30mm
1541	18.0	68.4	1200	83	1100	30mm
2511	20.0	76.0	1500	103	1450	30mm
2531	25.0	95.0	1200	83	1025	30mm
3521DHS	25.0	95.0	2000	138	870	35mm
6821	25.0	95.0	3000	207	615	45mm
3531D	36.0	136.2	1200	83	800	35mm
3531DHS*	40.0	152.0	2000	138	888	35mm
6831	40.0	152.0	2300	159	625	45mm
3541D	45.0	171.0	1000	69	765	35mm
6841	48.0	182.4	2000	138	615	45mm
3541DHS*	50.0	189.3	1500	103	850	35mm
6761	60.0	228.0	1200	83	520	45mm

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

Electric Brake Hp = $\frac{\text{gpm x psi}}{1460}$

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PlungerPumps

SOLID SHAFT, DUPLEX STAINLESS STEEL MANIFOLD

PUMPMODEL	MAXIMUM FLOW		MAXIMUM PRESSURE		RPM	SHAFT
	GPM	LPM	PSI	BAR		
1051D	10.0	38.0	2200	152	958	30mm
661D	10.0	38.0	3000	207	1429	30mm
1051D	12.0	45.4	1800	124	1150	30mm
6762	60.0	228.0	1200	83	520	45mm
67102	80.0	302.8	1200	83	540	45mm
67102	100.0	378.5	1000	69	680	45mm
157R060	100.0	380.0	2700	186	310	100mm
152R060	115.0	437.0	1200	83	360	100mm
152R061	115.0	437.0	2000	138	360	100mm
152R080	200.0	760.0	1200	83	355	100mm
152R081	200.0	760.0	1560	108	355	100mm
152R100	240.0	912.0	1000	69	270	100mm

Electric Brake Hp = $\frac{\text{gpm x psi}}{1460}$

Model 6762

Model 152R100

BELT DRIVE, SOLID SHAFT, NICKEL ALUMINUM BRONZE MANIFOLD

PUMPMODEL	MAXIMUM FLOW		MAXIMUM PRESSURE		RPM	SHAFT
	GPM	LPM	PSI	BAR		
237	2.3	8.7	1500	103	1725	16.5mm
277	3.5	13.3	1500	103	1420	16.5mm
247	3.6	13.7	1200	83	1725	16.5mm
347	4.0	15.2	1800	124	1725	20mm
317	4.0	15.2	2200	152	950	20mm
277	4.2	16.0	1000	69	1725	16.5mm
357	5.0	19.0	1500	103	1725	20mm
1057	10.0	38.0	2200	152	958	30mm
3507	10.0	38.0	5000	345	915	35mm
1057	12.0	45.4	1800	124	1150	30mm
3517	14.0	53.2	3000	207	800	35mm
2537	25.0	95.0	1200	83	1025	30mm
3527	25.0	95.0	2000	138	870	35mm
3537	36.0	136.2	1200	83	800	35mm
3537HS*	40.0	152.0	2000	138	888	35mm
3547	45.0	171.0	1000	69	765	35mm
6747	48.0	182.4	2000	138	615	45mm
6767	60.0	228.0	1200	83	520	45mm

* Intermittentduty only - operating pump atstated flow and pressure for no more than 50% of time in any given hour.

Electric Brake Hp = $\frac{\text{gpm x psi}}{1460}$

Model277

Model 3517

comercial@highpresspumps.com.co
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PistonPumps

Model280

PISTON PUMPS, SOLID SHAFT, BRASS MANIFOLD
Belt Drive

PUMPMODEL	MAXIMUM FLOW		MAXIMUM PRESSURE		RPM	SHAFT
	GPM	LPM	PSI	BAR		
280	3.0	11.4	1000	69	1330	16.5mm
290	3.5	13.3	1200	83	1200	16.5mm
333	4.0	15.2	1200	83	1070	16.5mm
430	5.0	19.0	1000	69	1040	16.5mm
323	5.0	19.0	1500	103	1000	20mm
623	6.0	22.8	1200	83	850	25mm
820	10.0	38.0	1000	69	940	25mm
390	12.0	45.4	600	41	1200	20mm
1010	13.0	49.4	700	48	900	25mm
2520*	25.0	95.0	800	55	772	30mm
6040	40.0	152.0	1500	103	500	45mm
6020	60.0	228.0	1000	69	500	45mm

*Available as a model 2520C with flushed inlet manifold

Electric Brake Hp = $\frac{\text{gpm x psi}}{1460}$

Model820

PISTON PUMPS, SOLID SHAFT, 316 STAINLESS STEEL MANIFOLD
Belt Drive

PUMPMODEL	MAXIMUM FLOW		MAXIMUM PRESSURE		RPM	SHAFT
	GPM	LPM	PSI	BAR		
281	3.0	11.4	1000	69	1330	16.5mm
291	3.5	13.3	1200	83	1200	16.5mm
331	4.0	15.2	1200	83	1070	16.5mm
431	5.0	19.0	1000	69	1040	16.5mm
621	6.0	22.8	1200	83	850	25mm
821	10.0	38.0	1000	69	940	25mm
1011	13.0	49.4	700	48	900	25mm
6041	40.0	152.0	1500	103	500	45mm
6021	60.0	228.0	1000	69	500	45mm

Electric Brake Hp = $\frac{\text{gpm x psi}}{1460}$

Model 2520

Model 6020

TECH TIP

PumpRotation

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

ForwardRotation

ReverseRotation

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Flushed Manifold Pumps

FLUSHED MANIFOLD PUMPS, SOLID SHAFT, BRASS, NICKEL ALUMINUM BRONZE
Belt Drive

PUMPMODEL	MAXIMUM FLOW		MAXIMUM PRESSURE		RPM	SHAFT
	GPM	LPM	PSI	BAR		
1810K**	3.0	11.4	10000	689	1500	30mm
1530C	15.6	59.0	1500	103	1450	30mm
1540EC	18.0	68.4	1200	83	1100	30mm
2520C	25.0	95.0	800	55	772	30mm
3520C	25.0	95.0	2000	138	870	35mm
3570C	30.0	114.0	3000	207	1080	30mm
3535C	36.0	136.2	1200	83	800	35mm

Model numbersending in "C "indicate flushed castmanifold and "K "indicate flushed block manifold.
**17 - 4SS Stainless Steel Manifolds

Model 3520C

Electric Brake Hp = $\frac{\text{gpm x psi}}{1460}$

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

PUMPMODEL	MAXIMUM FLOW		MAXIMUM PRESSURE		RPM	SHAFT
	GPM	LPM	PSI	BAR		
341C	4.0	15.2	1800	124	1725	20mm
311C	4.0	15.2	2200	152	950	20mm
781K	4.7	17.9	5000	345	1750	24mm
351C	5.0	19.0	1500	103	1725	20mm
1051C	10.0	38.0	2200	152	958	30mm
661C	10.0	38.0	3000	207	1429	30mm
3501C	10.0	38.0	5000	345	915	35mm
7CP6171CCS	10.5	39.9	2000	138	1450	24mm
7CP6111CCS	10.5	39.9	2000	138	1750	24mm
1051C	12.0	45.4	1800	124	1150	30mm
3511C	14.0	53.2	3000	207	800	35mm
6811K	15.0	57.0	5000	345	600	45mm
6801K	15.0	57.0	7000	483	600	45mm
1541C	18.0	68.0	1200	83	1100	30mm
2531C	25.0	95.0	1200	83	1025	30mm
3521C	25.0	95.0	2000	138	870	35mm
6821K	25.0	95.0	3000	207	615	45mm
3531C	36.0	136.2	1200	83	800	35mm
6831K	40.0	152.0	2300	159	625	45mm
3541C	45.0	171.0	1000	69	765	35mm
6841K	48.0	182.4	2000	138	615	45mm
6861K	60.0	228.0	1200	83	520	45mm
67102C	100.0	378.5	1000	69	680	45mm

Model numbersending in "C "indicate flushed castmanifold and "K "indicate flushed block manifold.

Model 781K

Electric Brake Hp = $\frac{\text{gpm x psi}}{1460}$

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

PUMPMODEL	MAXIMUM FLOW		MAXIMUM PRESSURE		RPM	SHAFT
	GPM	LPM	PSI	BAR		
152R060C	115.0	437.0	1200	83	360	100mm
152R080C	200.0	760.0	1200	83	355	100mm
152R100C	240.0	912.0	1000	69	270	100mm

Model numbersending in "C "indicate flushed castmanifold and "K "indicate flushed block manifold.

Model 1051C

Model 67102

Electric Brake Hp = $\frac{\text{gpm x psi}}{1460}$

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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 190° F /88° C. This modification also allows the pump to run intermittently dry without damaging the seals. Standard plunger pumps can be fitted with these specially blended seals. Ordering this configuration requires adding .3400 to pump base model. For example, a 310 pump fitted with high temperature seals will be 310.3400. Contact CatPumps for additional information.

Triethylene Glycol (TEG) Pumps, 240° F

Model 3CP1120.44101

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

Belt and Bell Housing Drive

PUMP MODEL	MAXIMUM FLOW		MAXIMUM PRESSURE		RPM	SHAFT
	GPM	LPM	PSI	BAR		
3CP1130.44101	2.4	9.1	2200	152	1725	16.5mm
5CP3105CS.44101	2.5	9.5	3500	241	1750	20mm
3CP1140.44101	3.6	13.7	2200	152	1725	16.5mm
5CP2120W.44101	4.0	15.2	2500	172	950	20mm
5CP2140CS.44101	4.0	15.2	2500	172	1725	20mm
3CP1120.44101	4.2	16.0	2200	152	1725	16.5mm
5CP2150W.44101	5.0	19.0	2000	138	1725	20mm
5CP6120.44101	6.0	22.8	1600	110	1400	20mm
5CP6120.44101	7.4	28.0	1200	83	1725	20mm
1050.44101	10.0	38.0	2200	152	958	30mm
1050.44101	12.0	45.4	1800	124	1150	30mm
1530.44101	15.6	59.0	1500	103	1450	30mm
1540E.44101	18.0	68.4	1200	83	1100	30mm
2530.44101	25.0	95.0	1200	83	1025	30mm
3535.44101	36.0	136.0	1200	83	800	35mm

Electric Brake Hp = $\frac{\text{gpm x psi}}{1460}$

Model 1050.44101

HIGH-TEMPERATURE/TEG PUMPS, SOLID SHAFT, 316 STAINLESS STEEL AND NICKEL ALUMINUM BRONZE MANIFOLD

Belt and Bell Housing Drive

PUMP MODEL	MAXIMUM FLOW		MAXIMUM PRESSURE		RPM	SHAFT
	GPM	LPM	PSI	BAR		
3CP1231.44101	2.3	8.7	2000	138	1725	16.5mm
3CP1241.44101	3.6	13.7	2000	138	1725	16.5mm
5CPQ6241.44101	4.0	15.2	2000	138	1725	20mm
3CP1221.44101	4.2	16.0	2000	138	1725	16.5mm
5CPQ6251.44101	5.0	19.0	2000	138	1725	20mm
5CPQ6221.44101	6.0	22.8	2000	138	1400	20mm
1051.44101	10.0	38.0	2200	152	958	30mm
1051.44101	12.0	45.4	1800	124	1150	30mm
3517.44101*	14.0	53.0	3000	207	800	35mm
1531.44101	15.6	59.0	1500	103	1450	30mm
1541.44101	18.0	68.4	1200	83	1100	30mm
3521DHS.44101	25.0	95.0	2000	138	870	35mm
2531.44101	25.0	95.0	1200	83	1025	30mm
3531D.44101	36.0	136.2	1200	83	800	35mm

*Nickel Aluminum Bronze Manifold

Electric Brake Hp = $\frac{\text{gpm x psi}}{1460}$

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Washout Resistant Pumps

B SERIES, SOLID SHAFT, SPECIAL BRASS MANIFOLD, VEHICLE WASH
Belt and Bell Housing Drive

PUMP MODEL	MAXIMUM FLOW		MAXIMUM PRESSURE		RPM	SHAFT
	GPM	LPM	PSI	BAR		
340B	4.0	15.2	1800	124	1725	20 mm
310B,310BQ*	4.0	15.2	2200	152	950	20 mm
5CP2120B	4.0	15.2	2500	172	950	20 mm
5CP2140BCS	4.0	15.2	2500	172	1725	20 mm
350B	5.0	19.0	1500	103	1725	20 mm
5CP2150B	5.0	19.0	2000	138	1725	20 mm

*"Q" Option is designed for applications where a reduced sound level is desirable.


Model 310B

Electric Brake Hp = $\frac{\text{gpm x psi}}{1460}$

Liquid CO_2 Pumps

Cat Pumps liquid CO_2 series of pumps feature modifications to accommodate the unique properties of liquid CO_2. Specialty seals are used to handle low lubricity and low temperature that liquid CO_2 applications require. Pump manifolds are modified to allow higher inlet pressures and discharge pressures up to 7,000 psi (483 bar). Drive-end and manifold material combinations are available to cover a wide flow range of flow from 0.34 to 50 gpm (1.3 to 189.2 lpm).

Cat Pumps offers full technical and engineering support to properly select pumps for the specific application. Pumps are available in brass and 316 stainless steel. Cat Pumps has provided liquid 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

Demand Genuine Cat Pumps Accessories

MAXIMUM SYSTEM PERFORMANCE

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

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

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HIGH PRESSURE PUMPS

ATEX Pumps

3560 ATEX

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

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

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

Pump Series

- 3CP* Plunger Pumps
- 3 Frame* Plunger Pumps
- 5CP* Plunger Pumps
- 5 Frame* Plunger Pumps
- 7CP* Plunger Pumps
- 7 Frame* Plunger Pumps
- 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

* Excludes models equipped with gearbox

1CX Series Compact Misting Pumps

MODEL NUMBER SELECTION CHART
Pump with Electric Motor, 1000 psi max pressure

SERIES	FLOW (1750 RPM)	REGULATOR	ASSEMBLY 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

***Motor Options:**

1. 8180 – ¼hp, ODP, 115/230V, 60Hz, 1ph, 1750 rpm, 12 inch leads

2. 8182 – ½hp, ODP, 115/230V, 60Hz, 1ph, 1750 rpm, 12 inch leads

3. 8185 – ½hp, ODP, 115/230V, 60Hz, 1ph, 1750 rpm, terminal box

4. 8183 – ½hp, ODP, 115/230 V, 50Hz, 1ph, 1450 rpm, terminal box

5. 8186 – ½hp, TEFC, 115/230 V, 60Hz, 1ph, 1750 rpm, terminal box

* 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

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1XP Series Portable Extractor Pumps

1XP Pump with AC Induction Motor

- Long Service Life
- Dual Frequency for world-wide use
- Constant torque

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

GPM	MAX PSI	PUMP ASSEMBLY	SFA	HP
0.5	600	1XP050.031	4.0	1/3
0.75	500	1XP075.031		
0.85	500	1XP085.031		
1	450	1XP100.031		
1.25	400	1XP125.031		
1.5	325	1XP150.031		
2	250	1XP200.031		
0.4	1000	1XP050.051	8.0	½
0.7	1000	1XP075.051		
0.8	1000	1XP085.051		
0.9	800	1XP100.051		
1.2	800	1XP125.051		
1.5	600	1XP150.051		
2	450	1XP200.051		
0.9	1000	1XP100.071	9.0	¾
1.1	1000	1XP125.071		
1.4	800	1XP150.071		
1.75	700	1XP180.071		
2	550	1XP200.071		
1.45	1000	1XP150.101	12.6	1
1.8	800	1XP180.101		
2	750	1XP200.101		

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

GPM	MAX PSI	PUMP ASSEMBLY	SFA	HP
0.40	600	1XP050.031	2.1	⅓
0.60	500	1XP075.031		
0.70	500	1XP085.031		
0.80	450	1XP100.031		
1	400	1XP125.031		
1.2	325	1XP150.031		
1.70	250	1XP200.031		
0.30	1000	1XP050.051	3.8	½
0.60	1000	1XP075.051		
0.70	1000	1XP085.051		
0.75	800	1XP100.051		
1	800	1XP125.051		
1.2	600	1XP150.051		
1.70	450	1XP200.051		
0.75	1000	1XP100.071	4.6	¾
0.90	1000	1XP125.071		
1.20	800	1XP150.071		
1.50	700	1XP180.071		
1.70	550	1XP200.071		
1.20	1000	1XP150.101	6.3	1
1.40	800	1XP180.101		
1.70	750	1XP200.101		

1XP Pump with DC Permanent Magnet Motor

- Low amp draw
- Compact
- Lighter weight

DC Permanent Magnet – 120Volt-1/3HP ODP and TEFC Enclosures

GPM	MAX PSI	AMPS (AT MAX PSI)	PUMP ASSEMBLY ODP MOTOR	PUMP ASSEMBLY TEFC MOTOR
0.5	600	4.0	1XP050.03DC	1XP050.03DCT
0.75	500	4.0	1XP075.03DC	1XP075.03DCT
0.85	400	4.0	1XP085.03DC	1XP085.03DCT
1	350	4.0	1XP100.03DC	1XP100.03DCT
1.25	300	4.0	1XP125.03DC	1XP125.03DCT
1.5	250	4.0	1XP150.03DC	1XP150.03DCT
2.3	150	4.0	1XP200.03DC	1XP200.03DCT

DC Permanent Magnet – 240Volt-1/3HP ODP

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

Centrifugal Pumps

1K SERIES - SUBMERSIBLE SUMP PUMPS

Stainlesssteelsubmersiblesump pumps offersolutions to pumpingsemi-dirty wateror freshwaterwith suspended solids up to 3/8".

FlowRange	Up to 88 gpm	Operation	Manual or Automatic
Pressure Range (up to 24 psi)	55ft. Head	MaximumTemperature	Continuous122°F
RPM	3450 rpm		Intermittent 140°F
DischargeFitting	1 ¼", 1 ½" NPT(F)	Maximum Solids Diameter	¾"
Horsepower	1/3½, ¾, 1, 1 ½ HP		

2K SERIES - SUBMERSIBLE PUMPS

Stainlesssteelsubmersiblepumps offerreliablepumping of freshwateror industrial wastewaterwith suspended solids up to 2".

FlowRange	Up to 180 gpm	Operation	Manual or Automatic
Pressure Range (up to 19.5 psi)	46ft. Head	MaximumTemperature	Continuous 104°F
RPM	3450 rpm		Intermittent 140°F
DischargeFitting	2" NPT(F)	Maximum Solids Diameter	2"
Horsepower	½, 1, 1 ½, 2 HP		

3K SERIES - END-SUCTION CENTRIFUGAL PUMPS, SINGLE STAGE

Stainlesssteelend-suctioncentrifugalpumps offerdependableperformance and flexibilityin moving high volumeliquidsatlow pressure. Singlestagesold as eitherpump kitor motorized unit.

FlowRange	Up to 90 gpm	DischargeFitting	1"NPT(F)
Pressure Range (up to 63 psi)	145 ft. Head	Shaft Seal	MechType 21
Minimum Inlet Pressure toPrime	Flooded	Horsepower	1/3½, ¾, 1, 1 ½, 2, 3 HP
RPM	1725 or 3450 rpm	MaximumTemperature	160°F
InletFitting	1 ¼", 1 ½" NPT(F)		

3K SERIES - END-SUCTION CENTRIFUGAL PUMPS, TWO STAGE (METRIC FRAME)

Stainlesssteelend-suctioncentrifugalpumps offerdependableperformance and flexibilityin moving high volumeliquidsatlow pressure. Sold as motorized unitonly.

FlowRange	Up to 66 gpm	DischargeFitting	1"NPT(F)
Pressure Range (up to 106 psi)	245 ft. Head	Shaft Seal	MechType 21
Minimum Inlet Pressure to Prime	Flooded	Horsepower	2, 3, 5 (IP55 TEFC)
RPM	3450 RPM	MaximumTemperature	140°F
InletFitting	1 ¼", 1 ½" NPT(F)		

3K SERIES - END-SUCTION CENTRIFUGAL PUMPS, TWO STAGE (NEMA FRAME)

Stainlesssteelend-suctioncentrifugalpumps offerdependableperformance and flexibilityin moving high volumeliquidsatlow pressure. Sold as eitherpump kit or motorized unit.

FlowRange	Up to 66 gpm	DischargeFitting	1"NPT(F)
Pressure Range (up to 106 psi)	245 ft. Head	Shaft Seal	MechType 21
Minimum Inlet Pressure toPrime	Flooded	Horsepower	2, 3, 5
RPM	3450 RPM	MaximumTemperature	140°F
InletFitting	1 ¼", 1 ½" NPT(F)		

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HIGH PRESSURE PUMPS

CentrifugalPumps

4K SERIES - END-SUCTION CENTRIFUGAL PUMPS, SINGLE STAGE

Sold as pump kit or motorized unit.

FlowRange	Up to 380 gpm	DischargeFitting Flange	ANSI 150 lb. - 1¼", 1½", 2"
Pressure Range (up to 124 psi)	286 ft. Head	Shaft Seal	MechType 21
Minimum Inlet Pressure to Prime	Flooded	Horsepower	1, 1 ½, 2, 3, 5, 7 ½, 10, 15HP
RPM	1725 or 3450 rpm	MaximumTemperature	160°F
Inlet Fitting Flange	ANSI 150lb. - 2", 2 ½", 3"		

5K SERIES - SELF PRIMING CENTRIFUGAL PUMPS

Sold as pump kit or motorized unit.

Flow Range	Up to 18.5 gpm	DischargeFitting	1"NPT(F)
PressureRange(upto 82 psi)	190 ft. Head	ShaftSeal	MechType 21
RPM	3450rpm	Horsepower	1, 2 HP
InletFitting	1 ¼" NPT(F)	Maximum Temperature	113°F

6K SERIES - OPEN IMPELLER END-SUCTION CENTRIFUGAL PUMPS

Stainlesssteelopen impellercentrifugalpumpshandlessuspendedsolids in liquidanddirty water,andhandles solidsup to ¾" spherical.Sold as motorized unitonly.

FlowRange	Up to 250 gpm	DischargeFitting	2"NPT(F)(with external hose barb)
Pressure Range (up to 28 psi)	65 ft. Head	Shaft Seal	MechType 21
Minimum Inlet Pressure to Prime	Flooded	Horsepower	1 ½, 2, 3, 4
RPM	3450 RPM	MaximumTemperature	194°F
InletFitting	2", 2 ½" NPT(F)		

8K SERIES - VERTICAL MULTIPLE STAGE CENTRIFUGAL PUMPS

Stainlesssteelverticalmultiple stagepumps designed forhigh volumeand highft.headcleanor hot water applications.Sold as abarepump or motorized unit(w/NEMAmotorsizes).

FlowRange	Up to 390 gpm	DischargeFitting	1 ¼" to 4" ANSI
Pressure Range (up to 403 psi)	930 ft. Head	Shaft Seal	Mechanical - Silicon / Carbide /Carbon /FPM
Minimum Inlet Pressure to Prime	Flooded	Horsepower Range	½ to 50 HP
RPM	3450 RPM	TemperatureRange	-22°F to248°F
InletFitting	1 ¼" to 4" ANSI		

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WWW.HIGHPRESSPUMPS.COM.CO

comercial@highpresspumps.com.co

info@highpresspumps.com.co

Cels. 302 2971431
320 4758874
313 2033213