



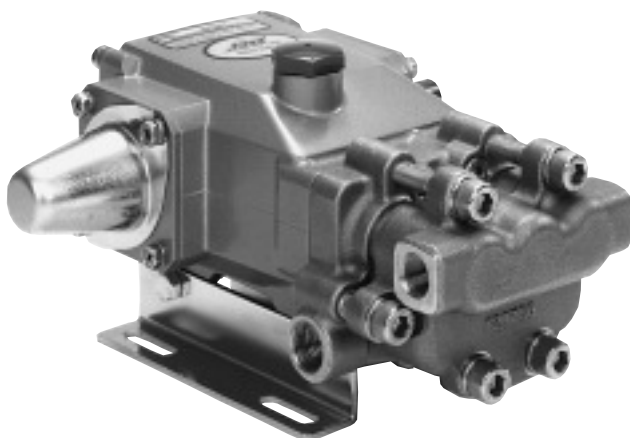
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O.E.M. 3CP Stainless Steel Plunger Pump

Models

3CP1221
3CP1231
3CP1241

FEATURES

Superior Design

- Triplex plunger design delivers smoother liquid flow.
- Hi-Pressure Seals are completely lubricated and cooled by the liquid being pumped.
- Inlet and discharge valve assemblies interchange for easier maintenance.
- Lubricated Lo-Pressure Seal provides double protection against external leakage.
- Oil bath crankcase assures optimum lubrication.
- Close tolerance concentricity of the ceramic plunger maximizes seal life.

Quality Materials

- Precision design 316 stainless steel valves and seats are hardened and polished for ultimate seating and extended valve life.
- 316 SSL manifolds for strength and corrosion resistance.
- Special concentric, high-density, polished, solid ceramic plungers provide a true wear surface and extended seal life.
- Specially formulated, CAT PUMP exclusive, Hi-Pressure Seals offer unmatched performance and seal life.
- Die cast aluminum crankcase provides high strength, minimum weight and precision tolerance control.
- Chrome-moly crankshaft gives unmatched strength and surface hardness.
- Oversized crankshaft bearings with greater capacity mean longer bearing life.

Easy Maintenance

- Wet-end is easily serviced without entering crankcase, requiring less time and effort.
- Preset packings mean no packing gland adjustment is necessary, reducing maintenance costs.

⚠ WARNING

All systems require both a primary pressure regulating device (i.e., regulator, unloader) and a secondary pressure safety relief device (i.e., pop-off valve, safety valve). Failure to install such relief devices could result in personal injury or damage to the pump or to system components. CAT PUMPS does not assume any liability or responsibility for the operation of a customer's high pressure system.

SPECIFICATIONS

U.S. Measure

Metric Measure

MODEL 3CP1221

Flow4.2 GPM (16 L/M)
Pressure Range100 to 2000 PSI (7 to 140 BAR)
RPM1725 RPM (1725 RPM)
Stroke0.500" (12.7 mm)

MODEL 3CP1231 Direct Drive

Flow2.3 GPM (8.7 L/M)
Pressure Range100 to 2000 PSI (7 to 140 BAR)
RPM1725 RPM (1725 RPM)
Stroke0.276" (7 mm)

MODEL 3CP1241 Direct Drive

Flow3.6 GPM (13.6 L/M)
Pressure Range100 to 2000 PSI (7 to 140 BAR)
RPM1725 RPM (1725 RPM)
Stroke0.433" (11 mm)

COMMON SPECIFICATIONS

Inlet Pressure RangeFlooded to 70 PSI (Flooded to 4.9 BAR)
Bore0.709" (18 mm)
Crankcase Capacity10 oz. (0.3 L)
Maximum Liquid Temperature160°F (71°C)
Above 130°F call CAT PUMPS for inlet conditions and elastomer recommendations.
Inlet Ports (2)1/2" NPTF (1/2" NPTF)
Discharge Ports (2)3/8" NPTF (3/8" NPTF)
Pulley MountingEither Side (Either Side)
Shaft Diameter0.650" (16.5 mm)
Weight14.84 lbs. (6.7 kg)
Dimensions9.69 x 8.78 x 5.35" (246 x 223 x 136 mm)

ELECTRIC HORSEPOWER REQUIREMENTS

MODEL	FLOW		PRESSURE			MOTOR PULLEY SIZE	
	U.S. GPM	L/M	PSI 1200	PSI 1500	PSI 2000	Using 1750 RPM Motor	5.0" Pump Pulley O.D.
3CP1221	4.2	16	3.5	4.3	5.8	1725	5.0
	3.5	13.2	2.9	3.6	4.8	1531	4.4
	3.0	11.4	2.5	3.1	4.1	1313	3.8
3CP1231	2.3	8.7	1.9	2.4	3.2	1725	Direct Drive
3CP1241	3.6	13.6	3.0	3.7	4.9	1725	Direct Drive

DETERMINING THE PUMP R.P.M.	Rated G.P.M.	=	"Desired " G.P.M.
	Rated R.P.M.	=	"Desired " R.P.M.
DETERMINING THE REQUIRED H.P.	GPM x PSI	=	Electric Brake
	1460	=	H. P. Required
DETERMINING MOTOR PULLEY SIZE	Motor Pulley O.D.	=	Pump Pulley O.D.
	Pump R.P.M.	=	Motor R.P.M.

See complete Drive Packages [Incls: Pulleys, Belts, Hubs, Key] Tech Bulletin 003.
Refer to pump Service Manual for repair procedure, additional technical information and pump warranty.

"Customer confidence is our greatest asset"