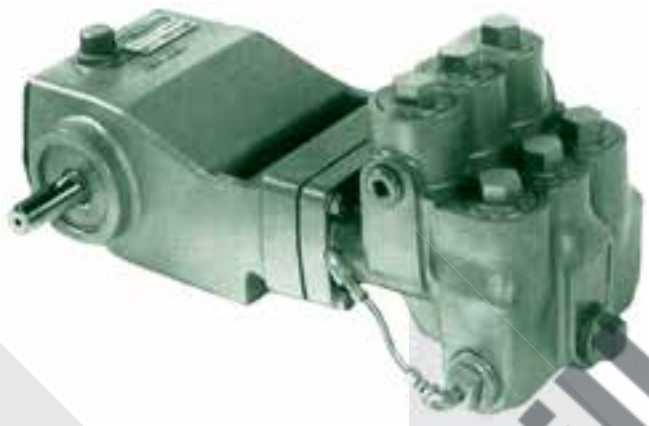
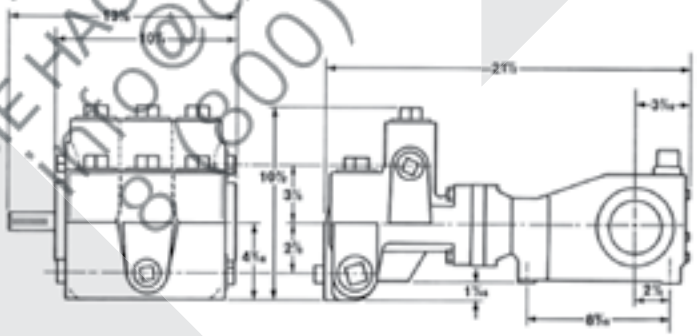
MYERS® CXP SERIES
HIGH PRESSURE RECIPROCATING PLUNGER PUMPS



The CXP Series plunger pump adds a new dimension of rugged versatility to Pentair's Myers line of high pressure industrial pumps. In one basic unit, the CXP offers seven interchangeable plunger and seal packages, allowing complete hydraulic coverage between 1200 PSI/30 gpm and 3500 PSI/5 gpm. The CXP handles liquids up to 160° F (71°C) with a maximum inlet pressure of 75 PSI. Optimum flow and pressure is easily converted, even in the field, by changing the plunger and seal kit. Three different valves with different flow areas (valves A, B and C) fit into the same valve deck and are also Interchangeable. The CXP Series combines Pentair's manufacturing expertise and understanding of applications to provide a pump with the strength and versatility for any demanding high pressure job.

DIMENSIONS (FOR ESTIMATING ONLY)



SPECIFICATIONS

Temperature Rating °F (°C)	Size in Inches (Millimeters)					Weight Lbs. (KG)
	Plunger Stroke	Suction Size (NPT)	Discharge Size (NPT)	Input Shaft	Keyway	
160 (71)	1 1/4 (31.75)	1 1/2 (38.10)	1 (25.40)	1 1/8 (28.58)	1/4 x 1/8 (6.35 x 3.18)	152 (69)

PUMP PERFORMANCE*

Catalog Number	Maximum Rated Capacity GPM (LPM)	Maximum Rated Pressure PSI (BAR)	Maximum Rated Speed RPM	Plunger Size Inch (mm)	Maximum HP (KW)	Valve**	Fluid End Material
CXP 30-12	30 (114)	1200 (82.7)	900	1 5/8 (41.3)	25 (18.6)	A	Ductile Iron
CXP 26-14	26 (98)	1400 (96.6)	900	1 1/2 (38.1)	25 (18.6)	A	Ductile Iron
CXP 22-16	22 (83)	1650 (113.8)	900	1 3/8 (34.9)	25 (18.6)	A	Ductile Iron
CXP 18-20	18 (68.1)	2000 (137.9)	900	1 1/4 (31.8)	25 (18.6)	B	Ductile Iron
CXP 14-24	14 (53.0)	2450 (169.07)	900	1 1/8 (28.6)	25 (18.6)	B	Ductile Iron
CXP 7-30	7 (26.5)	3000 (206.97)	560	1 (25.4)	15 (11.2)	C	Ductile Iron
CXP 5-35	5 (18.9)	3500 (241.47)	560	7/8 (22.2)	13 (9.7)	C	Ductile Iron

*Pump performance data are based upon 100% volumetric efficiency & 65% overall efficiency
**Pump performance based on valve listed

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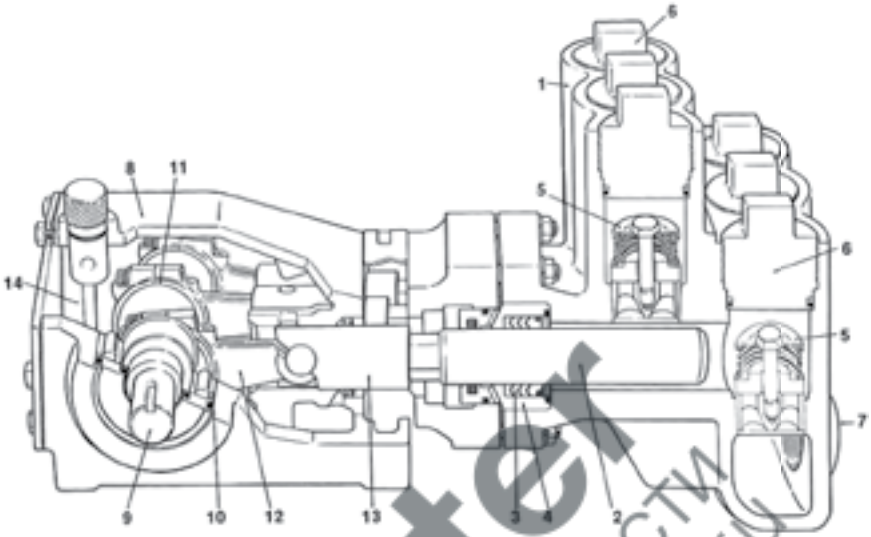
FLUID-END COMPONENTS

1. Cylinder body of high-strength ductile iron.
2. Ceramic plungers are non-scoring, high alumino ceramic with ground smooth surface of 12 RMS.
3. High pressure seals are wetted seal design, lubricated and cooled by suction fluid for longer seal life.
4. Seal plate of stainless steel features easy and quick replacement of seals.
5. Spring-loaded center post valves have acetal valves and stainless steel seats. Double springs for high speed and longer life.
6. Valve caps of stainless steel with o-ring seals and back-up ring. Valves can be serviced without disturbing piping.
7. Suction and discharge valves are located for easy service. Large threaded suction openings on sides and front. Discharge openings are tapped



POWER-END COMPONENTS

8. Crankcase of rugged cast iron supports the crankshaft and provides as an oil reservoir for continuous splash lubrication. Cover section quickly removable for easy service.
9. Automotive type crankshaft is high strength ductile iron.
10. Bearings feature roller bearings for high loads.
11. Crankshaft journal bearings are automotive type, steel-backed babbit inserts.
12. Connecting links are cast aluminum with bronze wrist-pin bearings.
13. Crossheads are ground and chrome plated to reduce friction and wear in crosshead bores.
14. Continuous splash lubrication is provided during either direction of rotation.
15. Available configured for hydraulic drive.

HORSEPOWER REQUIREMENTS

CXP 30-12

GPM	RPM	Horsepower Required For: 200 psi	400 psi	600 psi	800 psi	1000 psi	1200 psi
25.2	750	3.5	6.9	10.4	13.8	17.3	20.8
26.9	800	3.7	7.4	11.1	14.8	18.5	22.2
28.6	850	3.9	7.9	11.8	15.7	19.6	23.6
30.3	900	4.2	83	12.5	16.6	20.8	25.0

CXP 26-14

GPM	RPM	Horsepower Required For: 400 psi	600 psi	800 psi	1000 psi	1200 psi	1400 psi
21.5	750	5.9	89	11.8	14.8	17.7	20.7
22.9	800	6.3	9.4	12.6	15.7	18.9	22.0
24.4	850	6.7	10.0	13.4	16.7	20.1	23.4
25.8	900	7.1	10.6	14.2	17.7	21.3	24.8

CXP 22-16

GPM	RPM	Horsepower Required For: 600 psi	800 psi	1000 psi	1200 psi	1400 psi	1650 psi
18.1	750	7.5	9.9	12.4	14.9	17.4	20.5
19.3	800	7.9	i0.6	13.2	15.9	18.5	21.9
205	850	8.4	11.2	14.1	16.9	19.7	23.2
21.7	900	8.9	11.9	14.9	17.9	209	24.6

CXP 18-20

GPM	RPM	Horsepower Required For: 1000 psi	1200 psi	1400 psi	1600 psi	1800 psi	2000 psi
14.9	750	10.2	12.3	14.3	16.4	18.4	20.5
15.9	800	10.9	13.1	15.3	17.5	19.6	21.8
16.9	850	11.6	13.9	16.2	18.6	20.9	23.2
17.9	900	12.3	14.7	17.2	19.7	22.1	24.6

CXP 14-24

GPM	RPM	Horsepower Required For: 1400 psi	1600 psi	1800 psi	2000 psi	2200 psi	2450 psi
12.1	750	11.6	13.3	14.	16.6	18.3	20.3
12.9	800	12.4	14.2	15.9	17.7	19.5	21.7
13.7	850	13.2	15.0	16.9	18.8	20.7	23.0
14.5	900	13.9	15.9	17.9	19.9	21.9	24.4

CXP 7-30

GPM	RPM	Horsepower Required For: 2000 psi	2200 psi	2400 psi	2600 psi	2800 psi	3000 psi
5.1	400	7.0	7.7	8.4	9.1	9.8	10.5
5.7	450	7.8	8.6	9.4	10.2	11.0	11.7
6.4	500	8.8	9.7	10.5	11.4	12.3	13.2
7.1	560	9.7	10.7	11.7	12.7	13.6	14.6

CXP 5-35

GPM	RPM	Horsepower Required For: 2500 psi	2700 psi	2900 psi	3100 psi	3300 psi	3500 psi
3.9	400	6.7	7.2	7.8	8.3	8.8	9.4
4.4	450	7.6	8.2	8.8	9.4	10.0	10.6
4.9	500	8.4	9.1	9.8	10.4	11.1	11.8
55	560	9.4	10.2	10.9	11.7	125	13.2

- Horsepower required is based upon 85% overall efficiency.
- Flow is based upon 100% volumetric efficiency.
- Formula: (1) HP required = (electric brake) $\frac{\text{GPM x PSI}}{1457}$ or KW = $\frac{\text{LPM x BAR}}{511}$

  (2) Expected GPM = Rated GPM x $\frac{\text{Working RPM}}{\text{Rated RPM}}$

  Expected LPM = Rated LPM x $\frac{\text{Working RPM}}{\text{Rated RPM}}$

  Motor shieve O.D. size = Pump shieve O.D. size x $\frac{\text{Pump RPM}}{\text{Motor RPM}}$

PENTAIR

1101 MYERS PARKWAY, ASHLAND, OH 44805
WWW.FEMYERS.COM
PH: 855-274-8948

490 PINEBUSH ROAD, UNIT 4, CAMBRIDGE, ONTARIO N1T 0A5
WWW.FEMYERS.COM
PH: 800-387-4386 ORDERS FAX: 888-606-5484