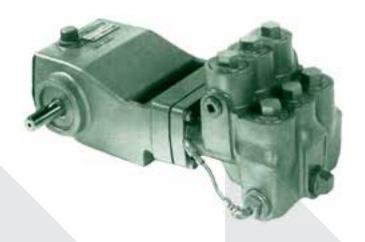
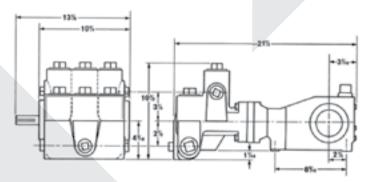
MYERS® CXP SERIES HIGH PRESSURE RECIPROCATING PLUNGER PUMPS



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		Waight I ha				
Rating °F (°C)	Plunger Stroke	Suction Size (NPT)	Discharge Size (NPT)	Input Shaft	Keyway	Weight Lbs. (KG)
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)	А	Ductile Iron
CXP 26-14	26 (98)	1400 (96.6)	900	1 1/2 (38.1)	25 (18.6)	А	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)	В	Ductile Iron
CXP 14-24	14 (53.0)	2450 (169.07)	900	1 1/8 (28.6)	25 (18.6)	В	Ductile Iron
CXP 7-30	7 (26.5)	3000 (206.97)	560	1 (25.4)	15 (11.2)	С	Ductile Iron
CXP 5-35	5 (18.9)	3500 (241.47)	560	7/8 (22.2)	13 (9.7)	С	Ductile Iron

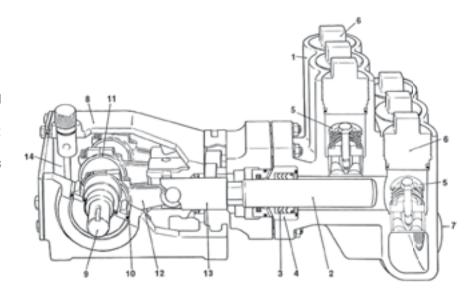
^{*}Pump performance data are based upon 100% volumetric efficiency & 65% overall efficiency



^{**}Pump performance based on valve listed

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
- 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-FND 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.
- II. Crankshaft journal bearings are automotive type, steel-backed babbit inserts.
- 12. Connecting links are cast aluminum with bronze wrist-pin bearings.

GPM

RPM

13. Crossheads are ground and chrome plated to reduce friction and wear in crosshead bores.

CXP 22-16

13.2

14.1

14.9

15 9

9.1

10.2

18 5

13.6

10.5

11.7

9.9

in 6

- 14. Continuous splash lubrication is provided during either direction of rotation.
- 15. Available configured for hydraulic drive.

HORSEPOWER REQUIREMENTS

CXP 30-12												
	RPM	Horsepower Required For:										
GPM		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 18-20												
				Horsepower Required For:									
	GPM	RPM	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					
Ξ	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 5-35												
GPM			Horsepower Required For:										
	GPM	RPM	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					
į	4.9	500	8.4	9.1	9.8	10.4	.	11.8					
	55	560	9.4	10.2	10.9	11.7	125	13.2					

	CXP 26-14												
		RPM	Horsepower Required For:										
	GPM		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 14-24												
			Horsepower Required For:									
GPM	RPM	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 14-24												СХР	7-30			
		Horsepower Required For:						Horsepower Required For:				Horsepower R				
GPM	RPM	1400 psi	1600 psi	1800 psi	2000 psi	2200 psi	2450 psi		GPM	GPM	RPM	2000 psi	2200 psi	2400 psi		
12.1	750	11.6	13.3	14.	16.6	18.3	20.3		5.1	400	7.0	7.7	8.4	I		
12.9	800	12.4	14.2	15.9	17.7	19.5	21.7		5.7	450	7.8	8.6	9.4			
13.7	850	13.2	15.0	16.9	18.8	20.7	23.0		6.4	500	8.8	9.7	10.5			
14.5	900	13.9	15.9	17.9	19.9	21.9	24.4		7.1	560	9.7	10.7	11.7			

- Horsepower required is based upon 85% overall efficiency.
- Flow is based upon 100% volumetric efficiency.

• Formula: (1) HP required = $GPM \times PSI \text{ or } KW = LPM \times BAR$ (electric brake) 1457 511 (2) Expected GPM = Rated GPM x Working RPM or Rated RPM

> Expected LPM = Rated LPM x Working RPM or Rated RPM

Motor shieve = Pump shieve x Pump RPM 0.D. size 0.D. size Motor RPM



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