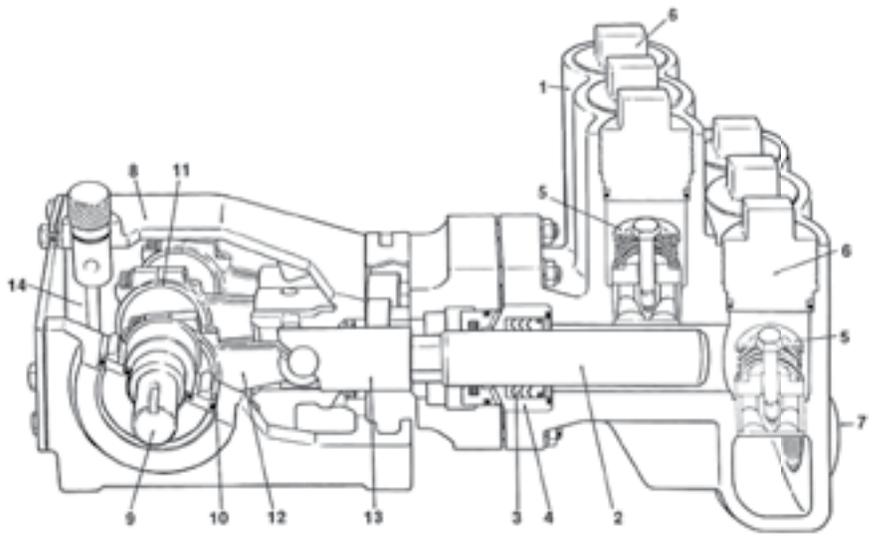




## FLUID-END COMPONENTS

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 babbitt 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	8.3	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	8.9	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	10.6	13.2	15.9	18.5	21.9
20.5	850	8.4	11.2	14.1	16.9	19.7	23.2
21.7	900	8.9	11.9	14.9	17.9	20.9	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
5.5	560	9.4	10.2	10.9	11.7	12.5	13.2

- Horsepower required is based upon 85% overall efficiency.
- Flow is based upon 100% volumetric efficiency.
- Formula: (1) HP required =  $\frac{\text{GPM} \times \text{PSI}}{1457}$  or  $\text{KW} = \frac{\text{LPM} \times \text{BAR}}{511}$  (electric brake)
- (2) Expected GPM =  $\frac{\text{Rated GPM} \times \text{Working RPM}}{\text{Rated RPM}}$
- Expected LPM =  $\frac{\text{Rated LPM} \times \text{Working RPM}}{\text{Rated RPM}}$
- Motor shieve =  $\frac{\text{Pump shieve} \times \text{Pump RPM}}{\text{O.D. size} \times \text{Motor RPM}}$



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