BENCOR (Pty) Ltd.

Dump



Air driven hydraulic pumps type LP

These hydraulic pumps are reciprocating, valve controlled plunger pumps. They are basically oscillating pneumatic/hydraulic pressure intensifiers which are available in three sizes. These pumps stop automatically when the opposing forces on the pneumatic side of the piston are in equilibrium with the forces on the hydraulic side. Likewise the pumps will start when the forces are unequal. This force equivalent also determines the cycle frequency.

The hydraulic pumps type LP are available in various versions e.g. pump only, hydraulic power pack with tank or as turn-key power pack with the required directional valves directly mounted. These pumps are commonly

used in hazardous areas where electric motor drive pumps may cause fire or explosion such as in dye works, mining, pyrotechnic industry, petroleum refineries etc. These pumps also perform well in laboratory presses, jigs or lubrication applications.





Basic type and size		Operating pressure	Pressure ratio	Geom. volume per double stroke	Tapped port (pneumatic)	Symbol
					pressure connection	
	7					
	8	700	1:200	1,5		
LP80-	10	630	1:63	2,3	G 1/4	
	12	430	1:43	3,4	Ø 6mm	
	16	240	1:24	6		¦L
	8	1500	1:243	. 2		⊞∿
	10	1500	1:155	3,1		M _P
	12	700	1:108	4,5		()
LP125-	16	600	1:60	. 8	G 3/8	s s
	18	470	1:47	10,2	Ø 8mm, Ø 10mm	
	20	380	1:38	12,6		
	25	240	1:24	19,6		
	30	160	1:16	28,3		
	8	1500	1:400	. 2		
	10	1500	1:255	3,1		
	12	700	1:177	4,5		
LP160-	16	700	1:100	8	G 1/2	
	18	700	1:78	10,2	Ø 8mm, Ø 10mm	
	20	620	1:63	12,6		
	25	390	1:40	19,6		
	30	265	1:24	28,3		