

HSP - ELECTRIC DRIVEN SPLIT FLOW MULTI-OUTLET PUMPS



HSP44E104

Working pressure 700 Bar

Multiple outlet valve options

Precise control to achieve synchronised lift

The HSP range of electric driven, split flow, hydraulic pumps is designed to deliver equal volumes of oil from each individual control valve regardless of any variations in the hydraulic pressure. The range offers a selection of outlet valve configurations ranging from a 2-outlet model with manually operated directional control valves, through to a 8-outlet model with electric solenoid operated valves. Each valve outlet is connected directly to an independent internal piston pump which is driven by a common electric motive force. This technology allows each internal piston pump to deliver an equal amount of oil flow per minute regardless of any variations in the required operating pressure at each control valve outlet. With HSP split flow pumps lifting and positioning large, unevenly weighted loads using multiple jacking points in a synchronised, level lift and controlled manner is easily achievable. Individual control of each valve on all electric valve versions, is via a specially made electric control box with easily identifiable on/off switches for each applicable valve plus a synchronised lift control button for all of the selected control valves. Maximum working pressure of all HSP pumps is 700 Bar with an externally adjustable pressure relief valve on each outlet for easy pressure adjustment between 70 and 700 Bar. A full range of system components is available and detailed on pages 51 to 60.

Optional extra's include a fully automatic PLC controlled synchronised lifting system, with a variety of user settings, such as target lifting height, maximum tolerance between the jacking points and other key settings, all controlled from a centralised touch screen computer.

Model number	Valve configuration	Valve type	Oil Capacity Litres	Oil flow per outlet l/min	Motor voltage	Weight kg
HSP23M54	2 x 3-way	manual	50	0.9	380 / 440	178
HSP24M54	2 x 4-way	manual	50	0.9	380 / 440	178
HSP33M104	3 x 3-way	manual	100	1.8	380 / 440	333
HSP34M104	3 x 4-way	manual	100	1.8	380 / 440	333
HSP43M104	4 x 3-way	manual	100	1.1	380 / 440	272
HSP44M104	4 x 4-way	manual	100	1.1	380 / 440	272
HSP23E54	2 x 3-way	electric	50	0.9	380 / 440	180
HSP24E54	2 x 4-way	electric	50	0.9	380 / 440	180
HSP33E104	3 x 3-way	electric	100	1.8	380 / 440	335
HSP34E104	3 x 4-way	electric	100	1.8	380 / 440	335
HSP43E104	4 x 3-way	electric	100	1.1	380 / 440	274
HSP44E104	4 x 4-way	electric	100	1.1	380 / 440	274
HSP63E104	6 x 3-way	electric	100	0.9	380 / 440	335
HSP64E104	6 x 4-way	electric	100	0.9	380 / 440	335
HSP83E104	8 x 3-way	electric	150	0.7	380 / 440	370
HSP84E104	8 x 4-way	electric	150	0.7	380 / 440	370

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- >> Working pressure 700 Bar
- >> Equal output flow regardless of pressure
- >> Control panel with selector switches for each individual outlet, allowing for single or multiple (synchronised) operation
- >> Externally adjustable pressure relief valve for control of maximum system pressure

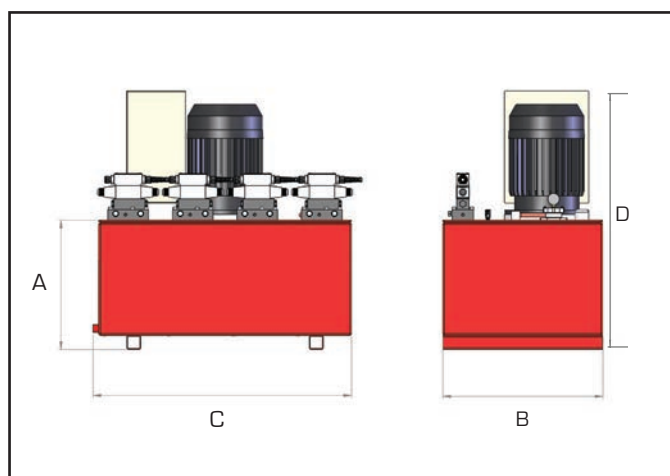
Choice of manual or electric valve options

Reservoir capacity 50 to 150 litres

Consistent single speed flow rate

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- >> Hi-Force HSP series split flow pumps fitted with low voltage solenoid valves are complete with a low voltage control system, which allows the user to individually or simultaneously control each valve and the movement of the lifting cylinder pistons. Once the load is correctly supported, by the selected cylinder pistons, the synchronised lift operation can commence. The operation of the HSP Pump Unit can be entirely controlled from the remote control panel, which features individual valve on/off switches and a set of cylinder piston lift and lower buttons that can be individually selected for inclusion in the lift operation.



Model number	Oil capacity		Dimensions in mm			
	Litres		A	B	C	D
HSP2 (all models)	50		460	570	500	817
HSP3 (all models)	100		460	570	920	920
HSP4 (all models)	100		460	570	920	920
HSP6 (all models)	100		470	800	750	920
HSP8 (all models)	150		470	800	1010	1085