

BENCOR (Pty) Ltd.

Directional spool valves



Directional spool valves type HSR, HSF, and HSL

The directional spool valves are available as individual valve for pipe connection (type HSL), manifold mounting (type HSF) or as valve banks (type HSR). These valves are utilized to control the direction of movement of hydraulic consumers. All of them are indirectly electr. hydraulically actuated. The control oil demand is either internally sensed from the main circuit or fed externally from a separate control oil circuit.

These valves are equipped with adjustable thread type throttles prolonging the shifting operation, thereby preventing harsh shifting which might cause pressure surges due to high pressure or consumer flow. The valve banks come with a connection block which optionally incorporates e.g. an idle circulation valve, a pressure limiting valve or a pressure reducing valve (control oil supply for high primary pressure).



Nomenclature Directional spool valve

Design: Individual valve for pipe connection or
Manifold mounting
Valve bank

Actuation: Electro-hydraulic
Hydraulic

P_{max}: 400 bar

Q_{max}: 80 ... 160 l/min

Basic types and general parameters

Basic type and size		Flow	Oper. pressure	Control pressure	Tapped ports	
Individual valve for pipe connection	Manifold mounting valve	Q _{max} (l/min)	P _{max} (bar)	P _{contr max} (bar)	A, B, P, R	X, Z
HSL 3	HSF 3	80	400	160	G 1/2	G 1/4
HSL 4	HSF 4	160	400	160	G 3/4	G 1/4

Valve bank coding

HSR 3 / B32C - C1 WG - 1 - G24 - 300

