

Directional spool valve

3.1 Directional spool valve type HSF

Directional spool valves are a type of directional valve. They control the direction of movement and the velocity of single and double-acting hydraulic consumers.

The directional spool valve type HSF is a manifold mounting valve. Due to the robust design, it reaches operating pressures of up to 400 bar.

Adjustable threaded throttles are used to adjust the response time. Harsh switching operations and decompression surges, particularly in the event of high pressure and large consumer volumes, can be avoided this way.

Features and benefits:

- Smooth switching for large flows
- Suitable for high pressures due to steel housing

Intended applications:

- Mining machinery (incl. oil production)
- Cranes and lifting equipment
- Construction and construction materials machinery
- Material handling (industrial trucks, etc.)



Nomenclature:	Directional spool valve
Design:	Individual valve for manifold mounting
Actuation:	Electro-hydraulic Hydraulic
p_{max}:	400 bar
Q_{max}:	80 ... 160 lpm

Design and order coding example

HSF4	/C321	- L	- 1	- G24	- 300
				Pressure setting pressure limiting valve [bar]	
				Solenoid voltage	12V DC, 24V DC, 98V DC, 205V DC, 110V AC, 230V AC
			End plate	Internal or external control oil return	
			Valve sections	With/without adjustable switching speed	
			Connection block	▪ With/without pressure limiting valve (tool or manually adjustable) ▪ Internal or external control oil supply (max. 160 bar)	
Basic type and size	Type HSF: Manifold mounting				