

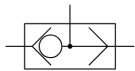
SHUTTLE VALVE - CARTRIDGE



Ball Seat Design | Cartridge Type | 420 bar

Specification/ Technical Data

Max. Operating Pressure	420 bar
Flow Capacity	15 LPM
Design	Ball Seat
Type	Cartridge
Size	M12
Body Material	Carbon Steel
Media	Mineral Oil
Oil Temperature Range	+10 to 60°C
Oil Viscosity	ISO VG 46-100
Oil Cleanliness (ISO 4406)	20/18 /15
Orientation	Any
Weight (approx.)	0.1 Kg
Tightening Torque	10 Nm



A hydraulic shuttle valve is a type of directional control valve that automatically selects the higher pressure fluid source from two inlet ports and directs it to a single outlet port. It essentially acts as an "OR" logic element in a hydraulic circuit.

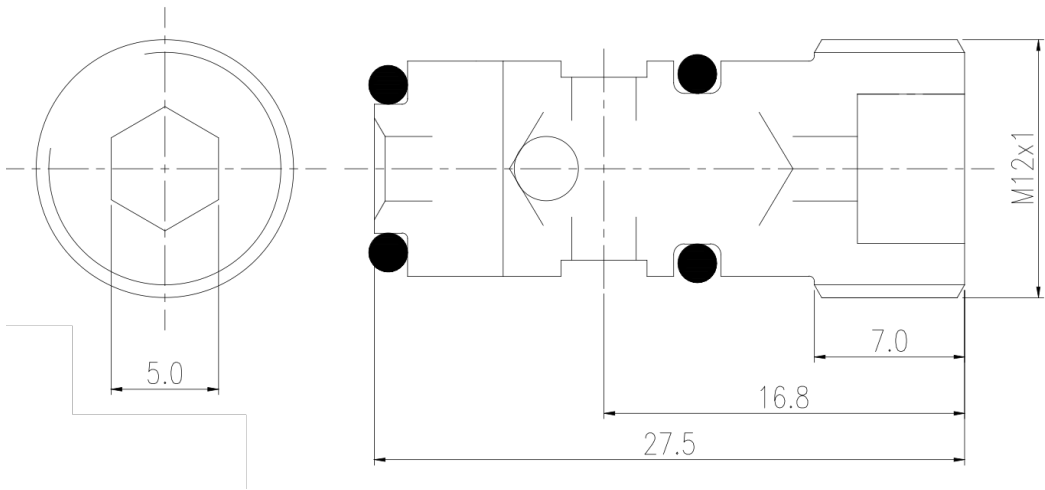
Its basic structure involves a movable internal ball, within a cylindrical body with 2 ports. When fluid pressure is applied to one inlet, it pushes the ball towards the opposite inlet, blocking it, and allowing the fluid to flow out through the common outlet. If the other inlet then experiences higher pressure, the ball moves in the opposite direction, blocking the first inlet and allowing flow from the second.

Shuttle valves are crucial for ensuring continuous operation, providing redundancy, and managing pressure signals in various hydraulic applications, such as load sensing circuits, brake systems, and standby/emergency systems, by ensuring that the system always responds to the highest available pressure.

Ordering Information

Basic Code	Shuttle Valve	FVS
Size	M12x1	M12
Type	Cartridge	No code
Version		1x

Valve Dimensions



Cavity Details

