BEMCO FLUIDTECHNIK LLP Doc: f3.0/FVS/R0

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	
Туре	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.

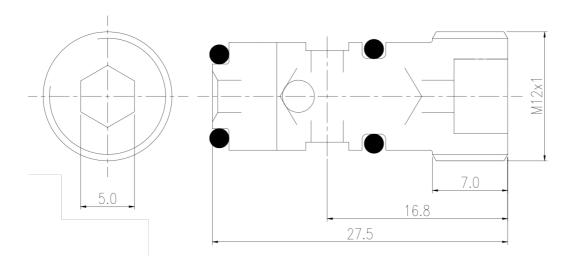
Shuttle valves are crucial for ensuring continuous operation, providing redundancy, and managing pressure signals in various hydraulic applications, such as load sensing circuits, brake systems, and standby/emergency systems, by ensuring that the system always responds to the highest available pressure.

Ordering Information

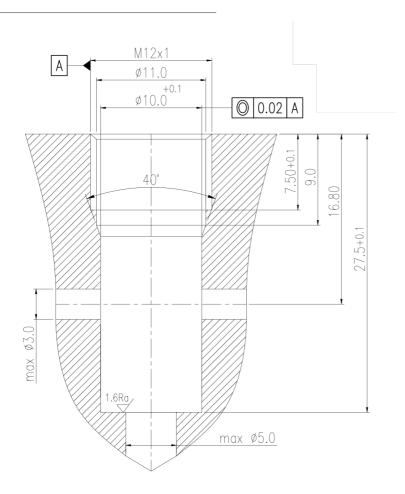
Basic Code	Shuttle Valve	FVS
Size	M12x1	M12
Туре	Cartridge	No code
Version		1x

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Valve Dimensions



Cavity Details



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