

Size 6

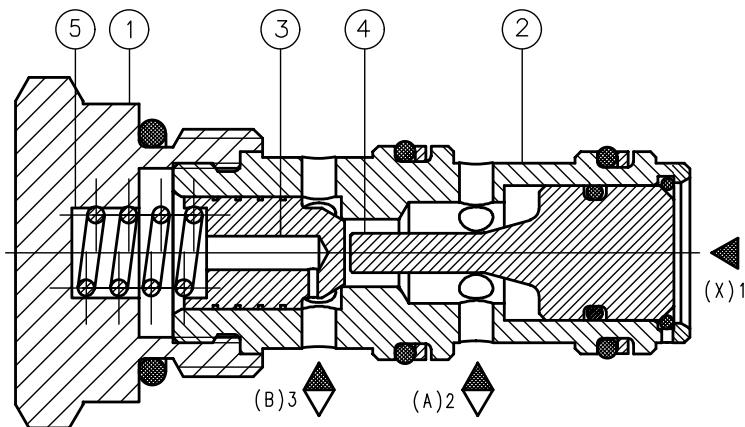
29 MPa

40 dm³/min.

APPLICATION

Pilot check valves allow fluid to pass in one direction with low pressure drop, then prevent reverse flow until pilot pressure is applied.

There are many applications for this valve type, the most common being to lock and hold a cylinder or other hydraulic actuator in position.



DESCRIPTION OF OPERATION

Pressure at the valve port (A) causes the poppet (3) to lift against the spring force (5) allowing flow to the cylinder port (B).

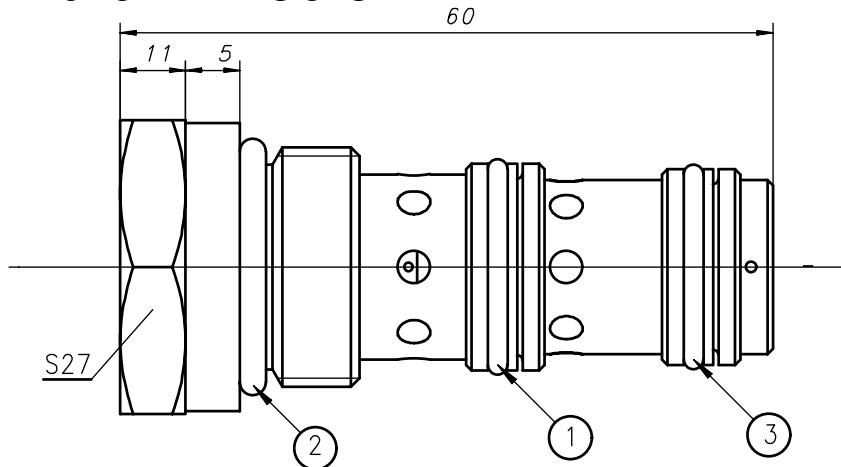
Reverse flow is prevented by the check reseating.

Pressure applied to the pilot port (X) will overcome the cylinder port pressure (B) and lift the piston (4) and poppet from its seat in sleeve (2) allowing return flow. Return flow is possible as long as the pressure is active at the pilot port (X).

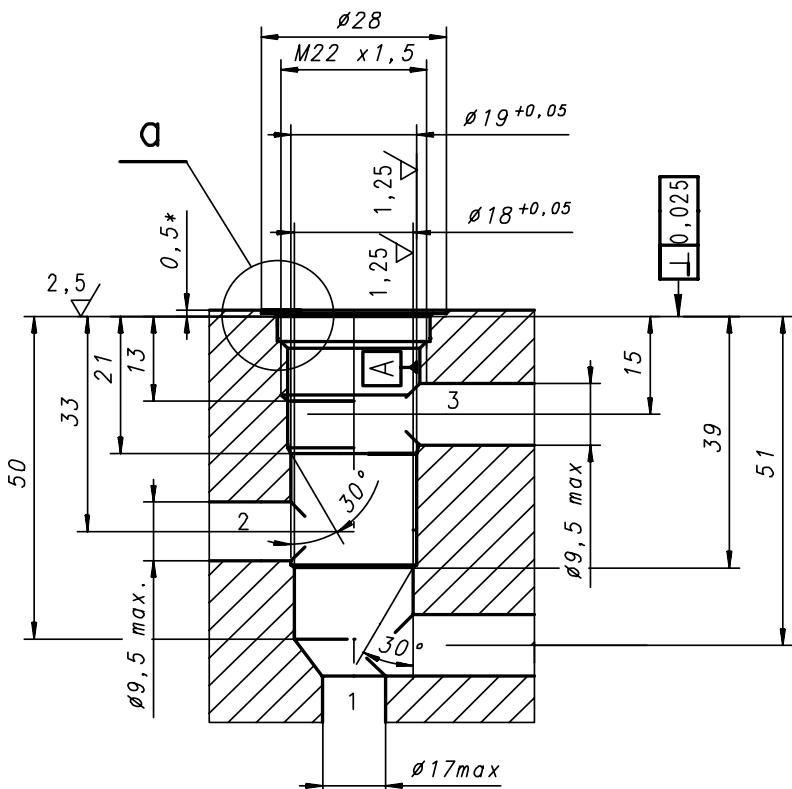
TECHNICAL DATA

Working fluid	Mineral oil
Nominal fluid viscosity	37 mm ² /s at temperature 328 K (55 °C)
Viscosity range	2,8 up to 380 mm ² /s
Optimum working temperature range	313 up to 328 K (40 up to 55 °C)
Fluid temperature range	243 up to 343 K (-30 up to 70 °C)
Required fluid filtration	16 µm
Recommended fluid filtration	10 µm
Max working pressure	29 MPa
Cracking pressure	0,5 MPa
Area ratio (valve surface/piston surface)	1 : 3
Weight	~ 0,1 kg

OVERALL AND CONNECTION DIMENSIONS



pos.1 "O-ring" 15,6 x 1,78
pos.2 "O-ring" 18 x 2,65
pos.3 "O-ring" 15 x 1,8

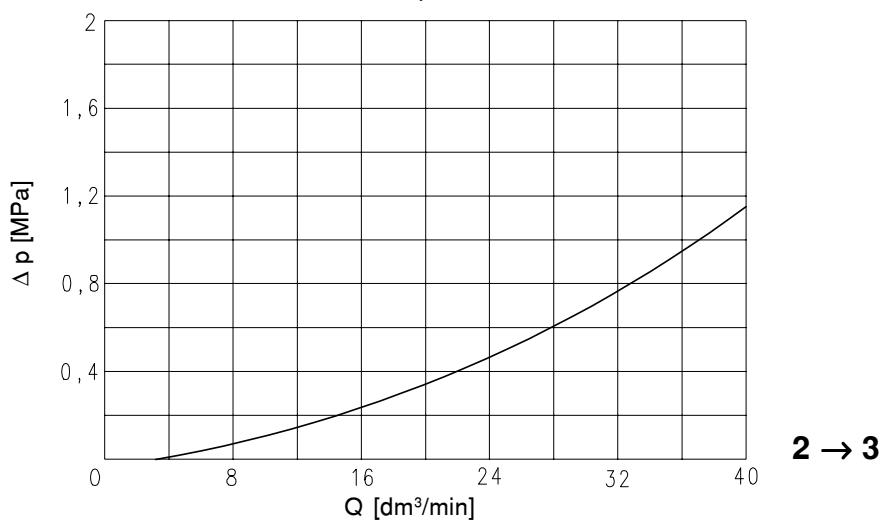


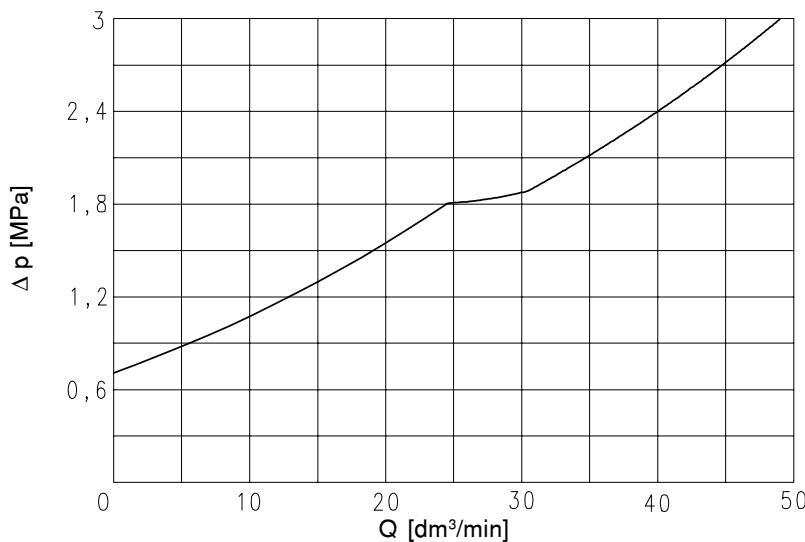
Dimensions of cavity

Tightening torque of cartridge valve - 80Nm

Mounting position-unrestricted

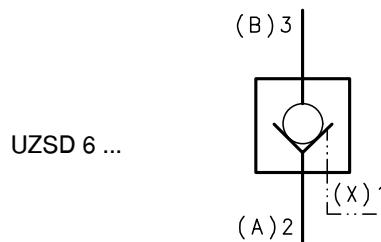
PERFORMANCE CURVES at $\nu = 41 \text{ mm}^2/\text{s}$ and temp. 323 K





3 → 2

SYMBOL



HOW TO ORDER

Orders coded in the way showed below should be forwarded to the manufacturer

UZSD 6		5	M1	*
Series number	02 (00 - 09)	= 02 = installation and connection dimension unchanged		
Cracking pressure	0,5 MPa	= 5		
Kind of cavity	Cavity M22x1,5	= M1		
Sealing	for fluids on mineral oil base for fluid on phosphate ester base	= no designation = V		
Further requirements to be added in text (to agree with the manufacturer)				

CODING EXAMPLE:
UZSD 6 02/5 M1

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