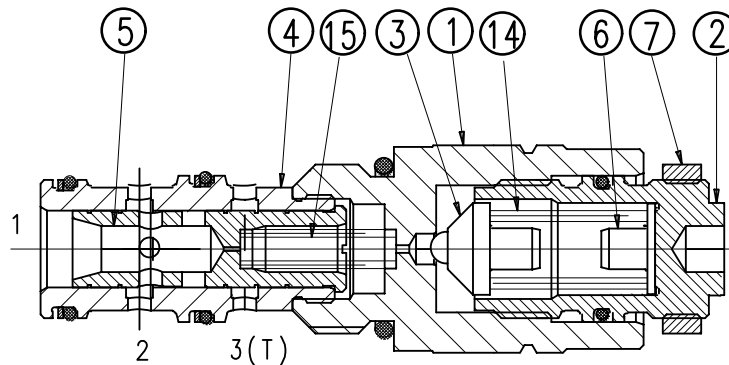


Pilot operated pressure reducing valves of cartridge design are used in hydraulic systems, in which pressure should be reduced in one line.



Description of operation

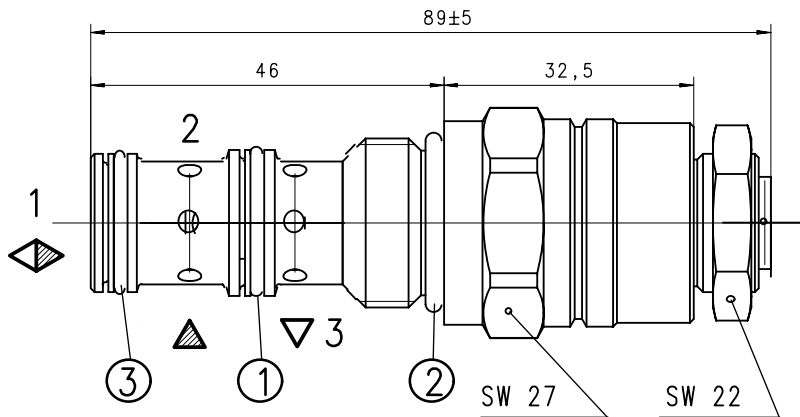
Pilot operated pressure reducing valve type UZRS 6 consists of the main valve (bush 4, spool 5, spring 15) and pilot valve (housing 1, poppet 3, adjustment 2, spring 14). Pressure required is set at the pilot valve by putting the spring 14 under tension.

This makes oil flow through the main valve from port 2 to 1 possible. When pressure at port 1 reaches the set valve, the pilot valve opens and the spool 5 moves back closing flow from 2 to 1. Pilot flow from the pilot valve is drained to port 3(T).

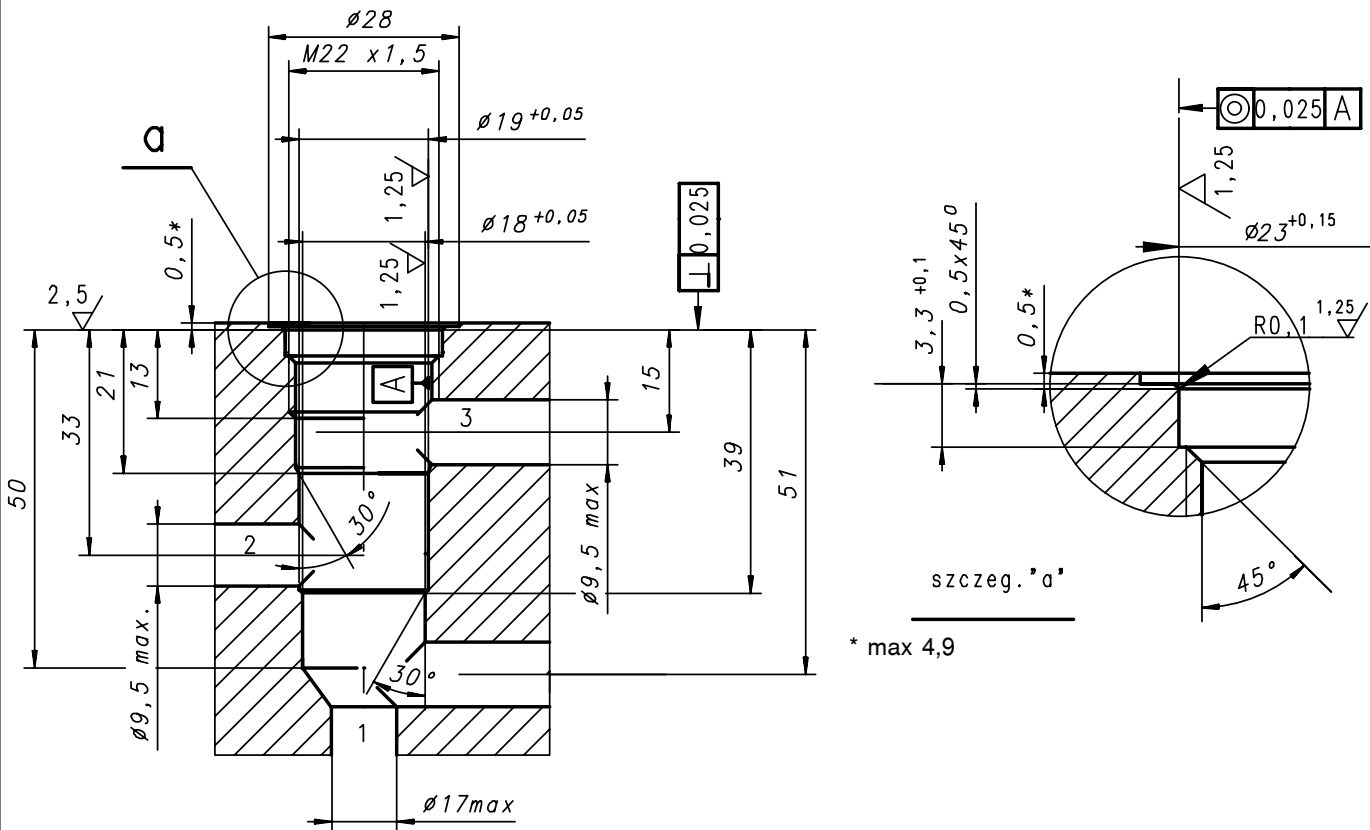
TECHNICAL DATA

Working fluid	Mineral oil
Nominal fluid viscosity	37 mm ² /s at temperature 328 K
Viscosity range	2,8 up to 380 mm ² /s
Optimum working temperature range	313 up to 328 K
Fluid temperature range	243 up to 343 K
Required fluid filtration	16 μm
Recommended fluid filtration	10 μm
Operating pressure - up to	29 MPa
Cracking pressure range	up to 5; 10; 20; 29 MPa
Flow rate - up to	50 dm ³ /min
Weight	0,2 kg

OVERALL AND CONNECTION DIMENSIONS



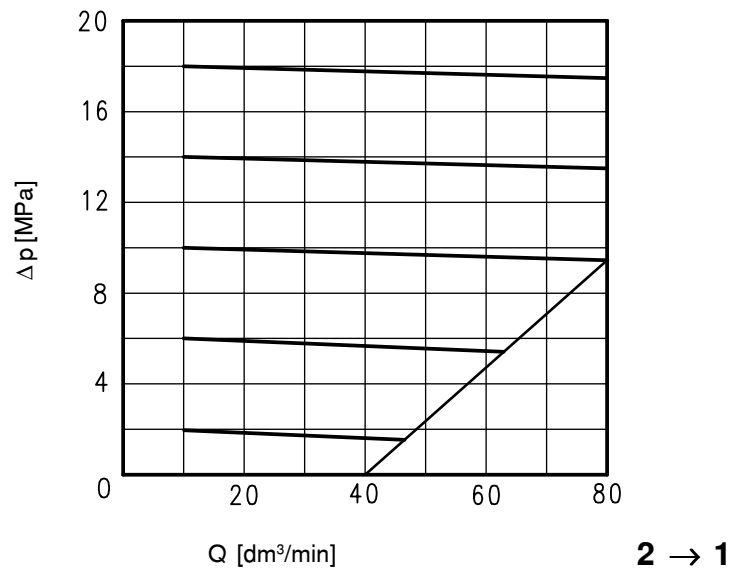
- item.1 "O-ring" 15,6 x 1,78 - 1 szt.
- item.2 "O-ring" 18 x 2,65 - 1 szt.
- item.3 "O-ring" 15 x 1,8



Dimensions of cavity
Tightening torque for cartridge valve - 80Nm

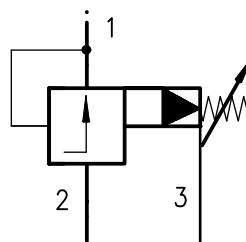
Performance curves at $n=41\text{mm}^2/\text{s}$ and temperature 323 K

Flow curve



SYMBOL

UZRS 6...



HOW TO ORDER

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

UZRS 6	02 / 50	— 2	— M 1	*
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Series number

02 = 02

Cracking pressure

5 MPa = 50
10 MPa = 100
20 MPa = 200
29 MPa = 290

Adjustment

Pivot with hexagonally cavity = 2

Kind of cavity

Cavity M22x1,5 = M1

Sealing

for fluids on mineral oil base = no designation
for fluid on phosphate ester base = V

Further requirements to be added in text (to agree with the manufacturer)

CODING EXAMPLE :

UZRS 6 - 02/50-2- M1 V

PONAR WADOWICE S.A.
ul. Wojska Polskiego 29
34-100 Wadowice
tel. 033/ 823 39 43, 823 30 41
fax 033/ 873 48 80
e-mail: ponar@ponar-wadowice.pl

