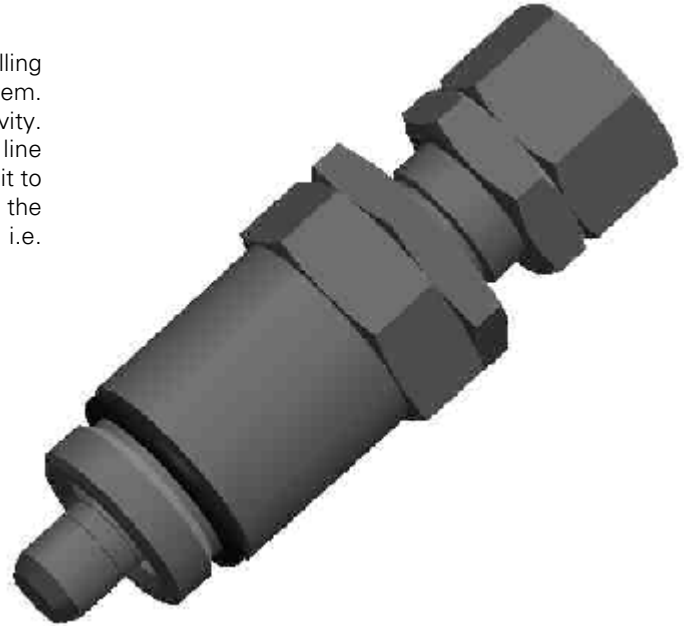


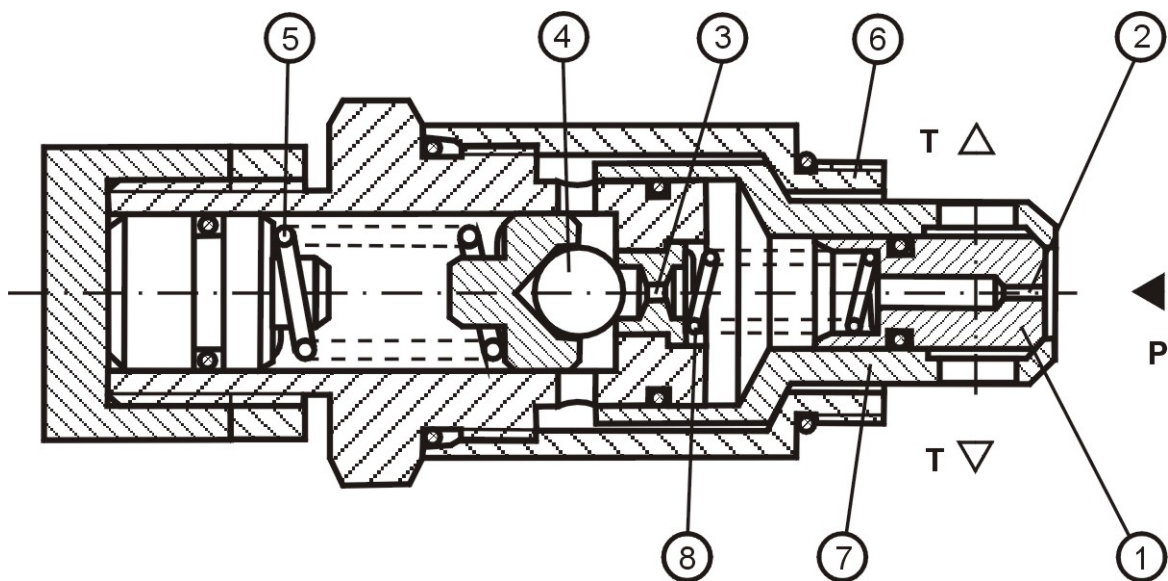
APPLICATION

Pressure relief valves UZPS16 are intended for controlling pressure and keeping it at a set level in hydraulic system. The valve is mounted by screwing into a threaded cavity. The mounting advantage is lack of sealings between line P (pressure) and line T (tank). The valve design enable it to self-seal by holding the valve conical surface down to the cavity age. The valve enable flow in reverse direction i.e. T to P - the valve operates thus as a check valve.



DESCRIPTION OF OPERATION

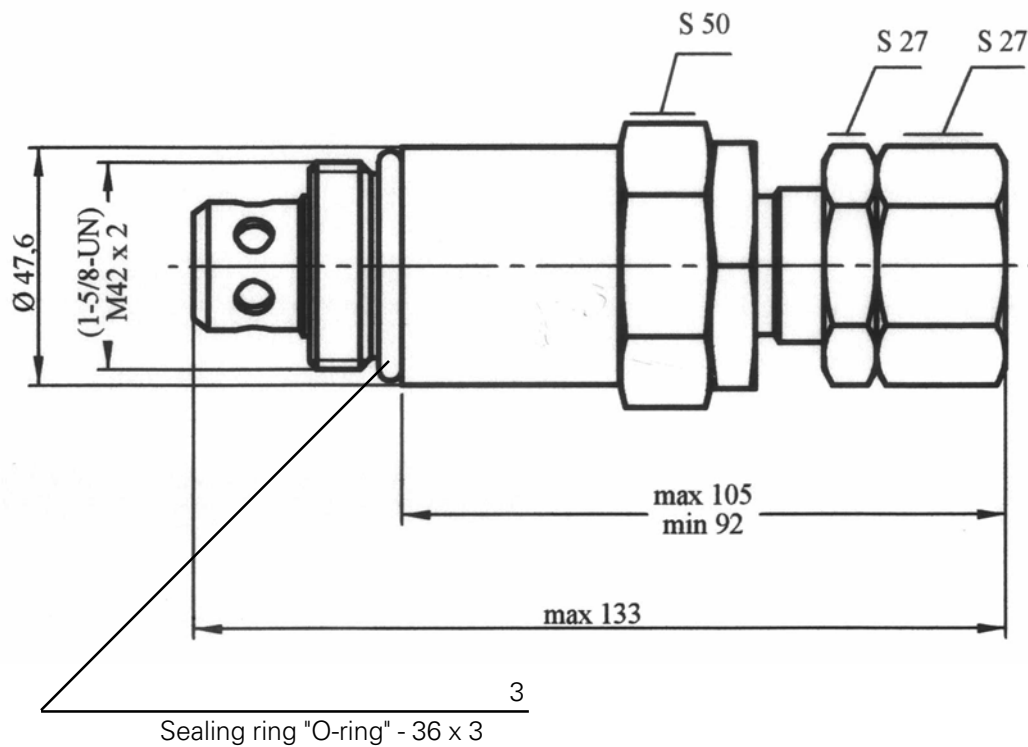
The valve UZPS16 is two-stage comprising main and control stages. Controlled pressure acts on bottom surface of the main stage spool and also on upper surface via a jet bore 2. Pressure acts also via a jet bore 3 on the control stage ball 4. On exceeding tension force of a spring 5 pressure lifts the ball 4 up causing flow to a tank via a slot between the housing 6 and cone 7. Fluid flow through the jet bore 3 will cause pressure drop above the upper surface of the spool 1, opening of the main stage and flow from line P to T. The valve allows fluid flow from line T to P as well. Pressure affecting surface of the cone 7 from line T to P will follow.



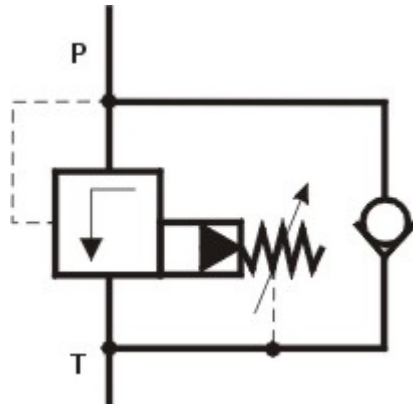
TECHNICAL DATE

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 (40 up to 55 °C)
Fluid temperature range	243 up to 343 K (- 30 up to 70 °C)
Min. working pressure	0,5 MPa
Max. working pressure	35 MPa
Max allowable fluid flow	150 dm ³ / min
Required fluid filtration	16 µm
Recommended fluid filtration	10 µm
Weight	1,15 kg

OVERALL DIMENSIONS



SYMBOL



HOW TO ORDER

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

UZPS 16 - 12 / 350 - M1 *

Series number

12 = 12
(10 - 19) installation and connection
dimension unchanged

Pressure setting

35 MPa = 350

Kind of cavity

Cavity M42 x 2 = M1
Cavity 1-5 / 8-12 UN = G1

Further requirements to be added in text

(to agree with the manufacturer)

CODING EXAMPLE :
UZPS 16 - 12 / 350 - M1

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

 **PONAR**[®]
wadowice