DIRECT OPERATED PRESSURE RELIEF VALVE TYPE UZPD30



NS 30 | up to 31,5 MPa | up to 330 dm³/min

WK 499 840

Pressure relief valves are designed to limit maximum pressure in the entire hydraulic system or in its part. Depending on the type of mounting in the system, direct operated pressure relief valves type UZPD... can be screwed (cartridge version), mounted into threaded connections (version for threaded connection) or mounted to subplate (version for subplate mounting).



DESCRIPTION OF OPERATION

UZPD30 - 02 S K/200

Direct operated pressure relief valve type mainly consists of body (1), poppet (2), spring (3), set screw (4). Movable poppet (2) is a working element. Cracking pressure setting is made by variation of spring

tension (3) by means of set screw (4). Various springs (2) (exchangeable) correspond to various ranges of cracking pressure adjustment. A dumping element (5) is used to eliminate vibrations of the valve.

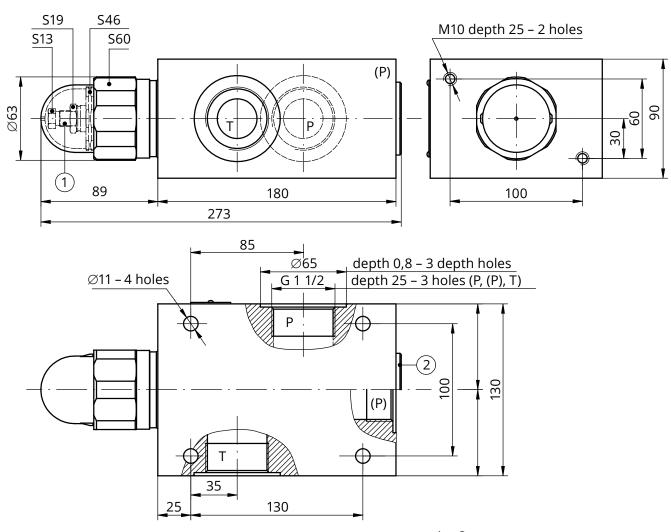
WK 499 840 Q-HYDRAULIKA

TECHNICAL DATA

Hydraulic fluid	mineral oil			
Required filtration	up to 16 μm			
Recommended filtration	up to 10 μm			
Nominal fluid viscosity	37 mm ² /s at temperature 55°C			
Viscosity range	2,8 up to 380 mm ² /s			
Fluid temperature range (in a tank)	recommended		40° C up to 55°C	
	max		–20° C up to +70° C	
Ambient temperature range	-20° C up to +70° C			
Max operating pressure	31,5 MPa			
Maximum pressure in T port	31,5 MPa			
Weight	cartridge design 2,2 kg	for threaded connection 13,9 kg		for subplate mounting 13,9 kg

OVERALL AND CONNECTION DIMENSIONS

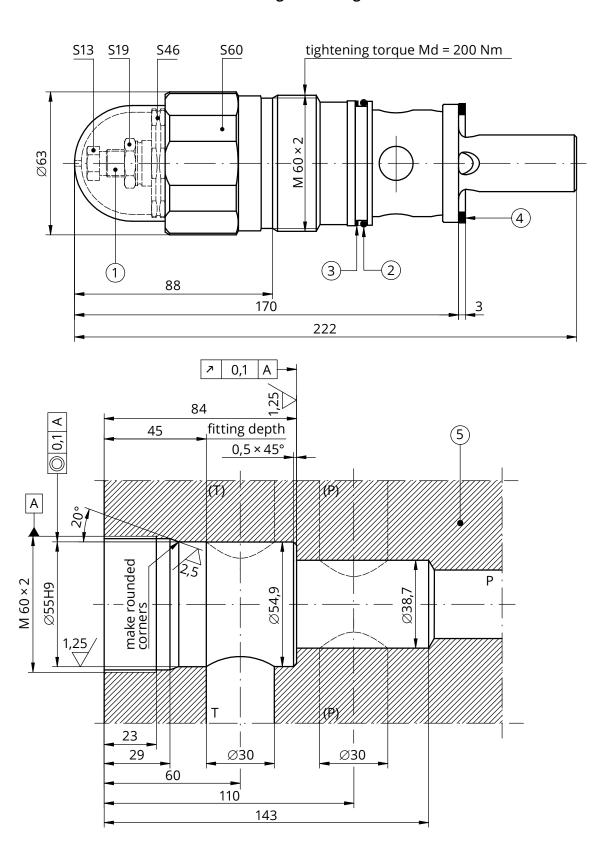
version for threaded connection UZPD30...G...



- 1 Set screw
- 2 Plug G 1 1/2 (additional connection P)

OVERALL AND CONNECTION DIMENSIONS

version for cartridge mounting UZPD30...K...



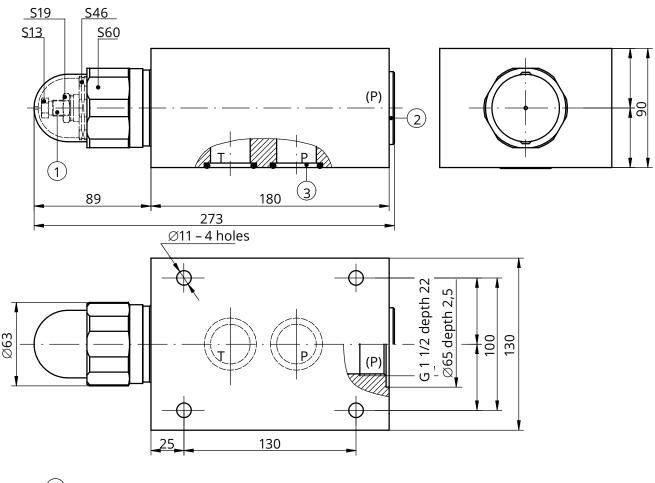
1 - Set screw
2 - Seal **o-ring 49 × 3** - 1 pc
3 - Back up ring **55 × 50,4 × 1,4** - 1 pc
4 - Seal ring **53 × 42,7 × 3** - 1 pc
5 - Valve cavity

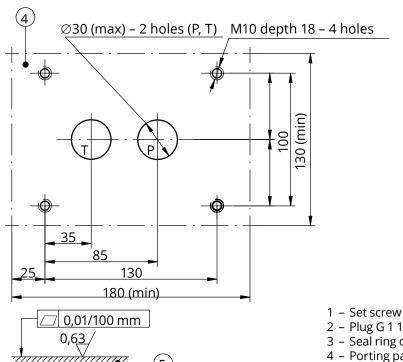
WK 499 840 **Q-HYDRAULIKA**

OVERALL AND CONNECTION DIMENSIONS

version for subplate mounting UZPD30...P...

overall and connection dimensions for a valve



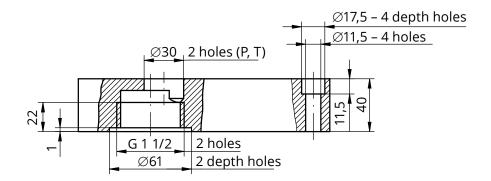


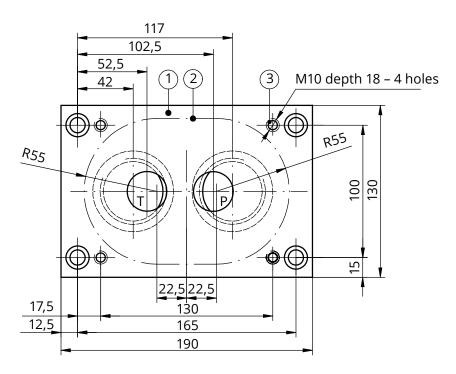
- 2 Plug G 1 1/2 (additional connection P)
- 3 Seal ring o-ring $34 \times 3 2$ pcs
- 4 Porting pattern configuration of connection holes in subplate mounting bolts M10 × 110 -10.9 in accordance with **PN-EN ISO 4762** (PN-87/M-82302) - 4 pcs/kit tightenin torque **Md = 68 Nm**.
- 5 Admissible surface roughness and flatness deviation for a subplate face

OVERALL AND CONNECTION DIMENSIONS

version for subplate mounting UZPD30...P...

overall and connection dimensions for subplate type G 499 944



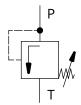


- 1 Mounting face of valve
- 2 Recess in subplate for coupling fittings for threaded pipes
- Holes for bolts mounting the valve mounting bolts
 M10 × 110 -10.9 in acordance with PN-EN ISO 4762
 (PN-87/M-82302) 4 pcs/kit tightening torque
 Md = 68 Nm subplates and mounting bolts must be ordered separately

WK 499 840 Q-HYDRAULIKA

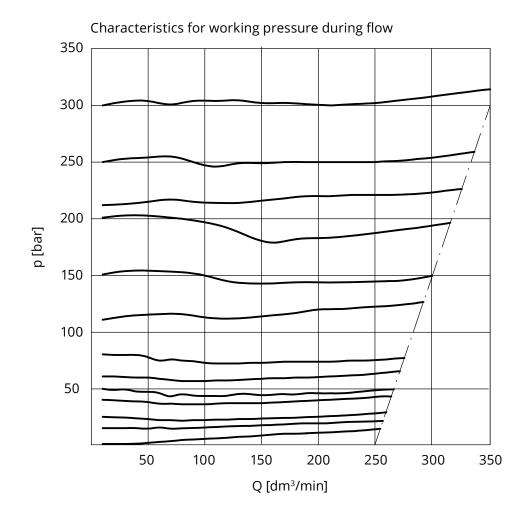
SCHEMES

Graphical symbol of the valve type **UZPD30...**



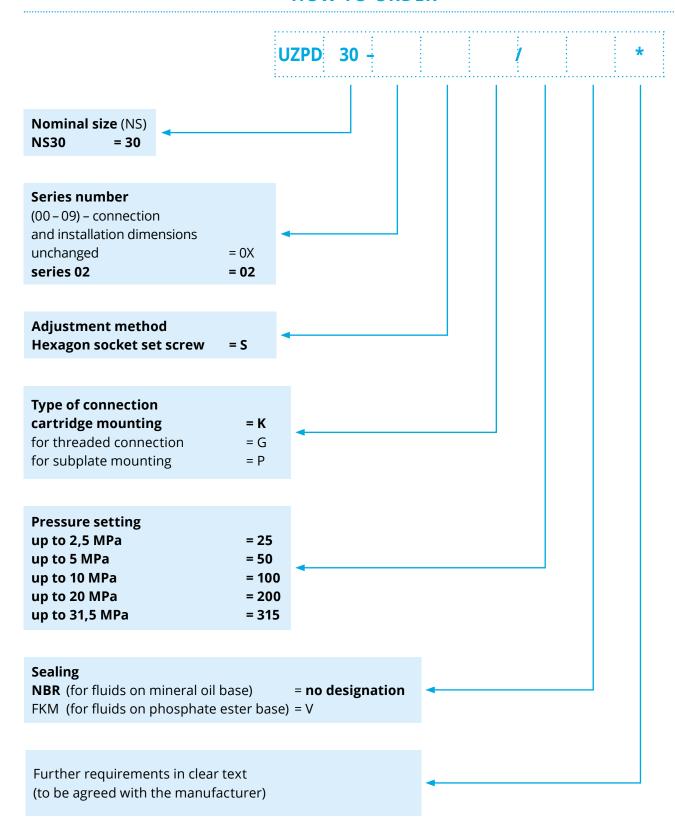
PERFORMANCE CURVES

measured at viscosity $v = 41 \text{ mm}^2$ /s and temperature t = 50 °C



Q-HYDRAULIKA WK 499 840

HOW TO ORDER



NOTES:

The pressure relief valve should be ordered according to the above coding.

The symbols in bold are the preferred versions available in short delivery time.

Coding example: UZPD30 - 02 S K /315

