

# PRESSURE SWITCH TYPE USPH 4

WK 450 398

up to 35 MPa

-1-

04. 2000r.

#### **APPLICATION**

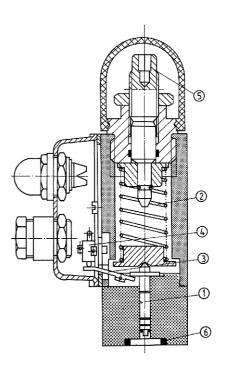
Pressure switch type USPH 4 serves to switch an electrical circuit on and off by means of a micro switch under the influence of pressure variations in relation to the set pressure.

The pressure switch may be used to control or monitor processes i.e. by means of a visual (light) or acoustic (bell) indicator. Sandwich plate type ULBC is used between the subplate and the pressure switch when mounting. The pressure switch is fixed to the sandwich plate by two bolts M4 x 16. Mating surfaces are sealed by means of O-rings which are included with the switch.



#### DESCRIPTION OF OPERATION

Pressure affects the piston 1 which lifts unclamping the lever 3. The lever switches the micro switch. The switching pressure is set at the adjusting element by means of the spring 2. As soon as pressure force decreases, the spring causes the piston to move downward. The piston pushes the lever and switches the micro switch to its initial state.

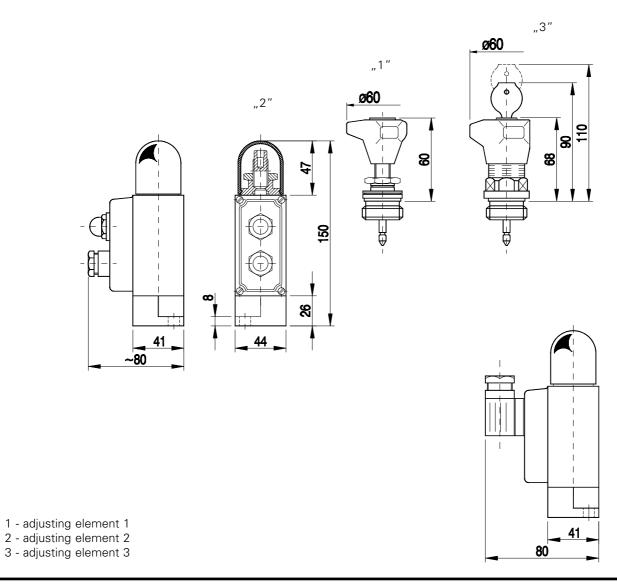


Item 6 - O-ring 12 x 2 - 1 piece

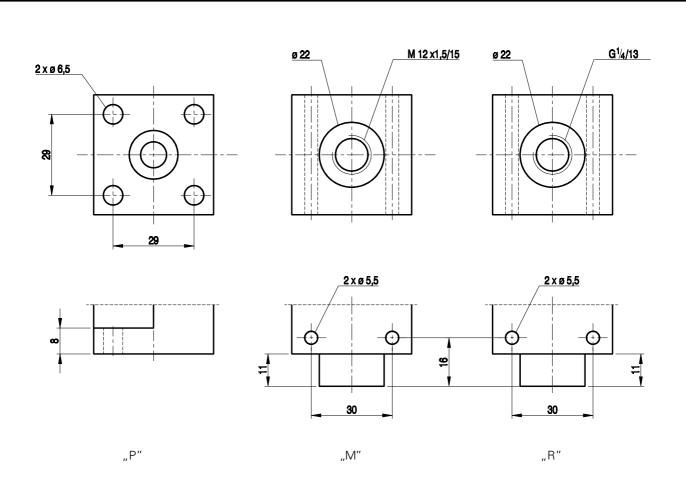
#### TECHNICAL DATA

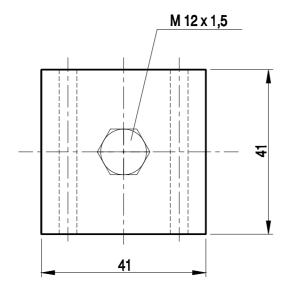
Hydraulic fluid	Mineral oil or phosphate ester
Nominal fluid viscosity	37 mm²/s at the temperature of 328 K
Viscosity range	2.8 to 380 mm <sup>2</sup> /s
Optimum working temperature (fluid in a tank)	313 - 328 K
Fluid temperature range	243 - 343 K
Filtration	up to 16 mm
Maximum operating pressure	10 MPa, 20 MPa, 35 MPa
Switching repeatibility	± 2 % of pressure setting
Maximum contact loading	5 A for AC voltage 250 V DC voltage 30 V
Insulation	IP 65 per PN/E-08106 ( DIN 40050 )
Weight	0.6 kg
Weight of ULBC	0.8 kg ( size 6 ), 1.9 kg ( size 10 )

## OVERALL AND CONNECTION DIMENSIONS

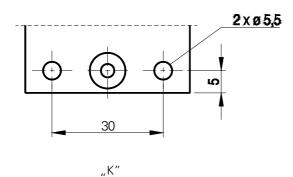


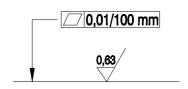
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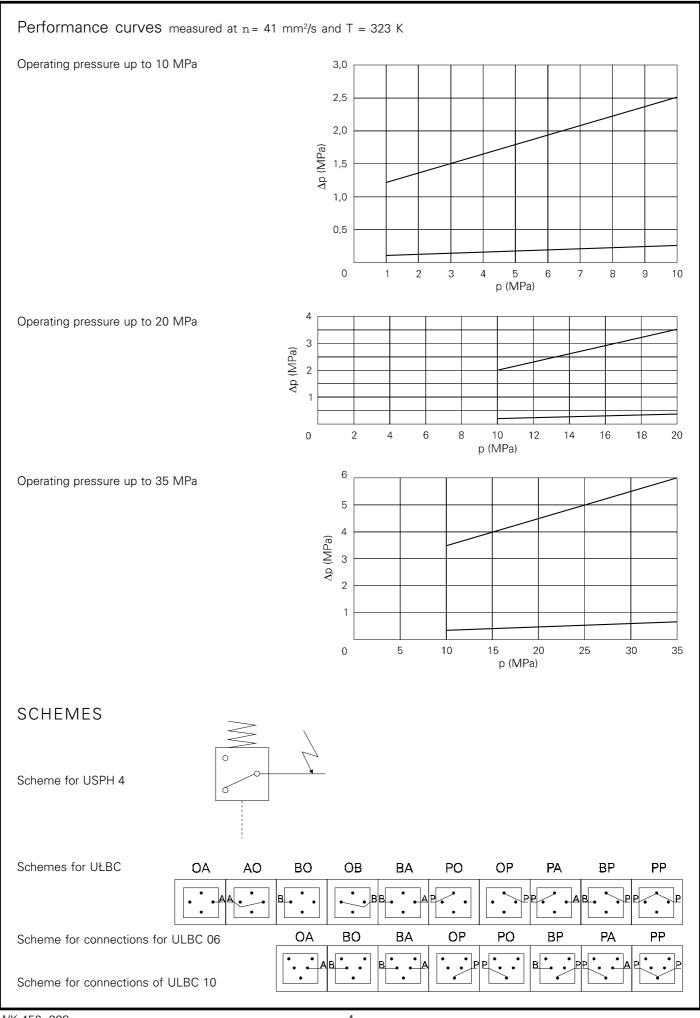


- "P" subplate mounting "M" threaded connections M12 x 1.5 "R" threaded connections G 1/4 "K" side subplate mounting

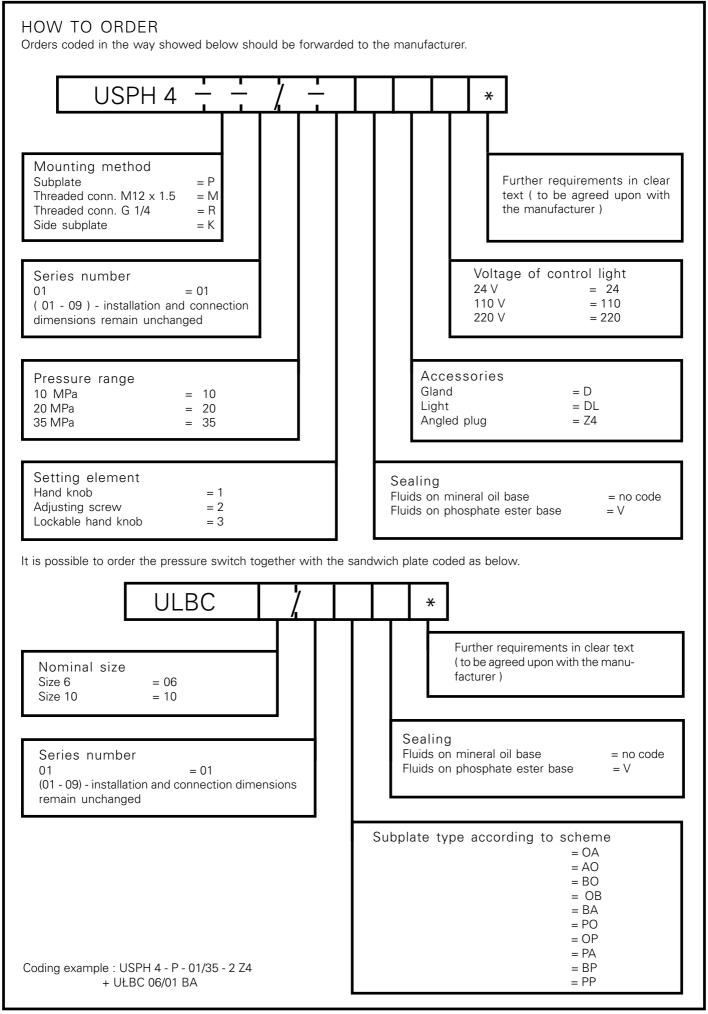




Admissible surface roughness and flatness deviation for a subplate face.

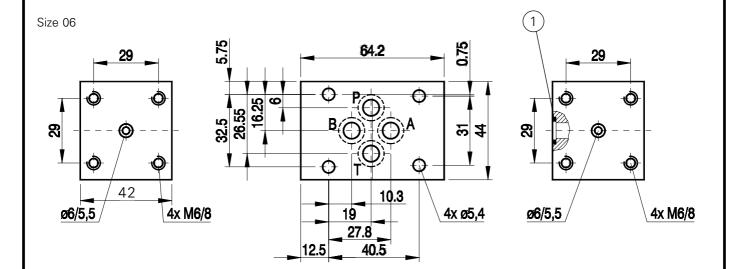


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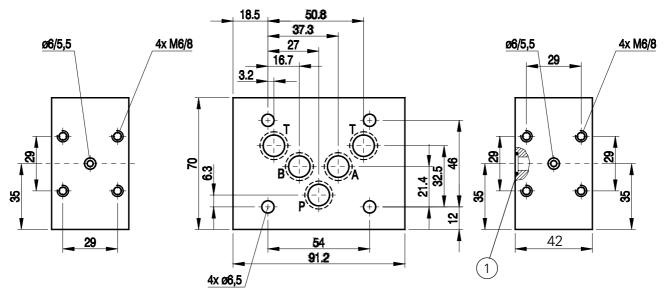
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## OVERALL AND CONNECTION DIMENSION FOR SANDWICH PLATE



Item 1 - o-ring 9.2 x 1.8 - 4 pcs

Size 10



Item 1 - o-ring 12 x 2 - 5 pcs



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