

PRESSURE SWITCH TYPE HED 3

up to 40 MPa

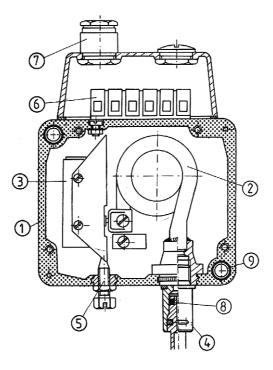
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APPLICATION

Pressure switch type HED 3 is used to switch an electrical circuit on and off in relation to the given pressure value of an oil or another operating medium.

DESCRIPTION OF OPERATION



Increasing pressure is supplied by a dumping tube via connector Stecko 4 sealed with the rubber ring 8. This pressure affects the bourdon tube 2 causing its deformation. As soon as the set pressure is reached, the bourdon tube actuates the micro switch 3 by means of the attached operating lever. The pressure switch is equipped with two micro switches. Position of each micro switch and than time of its action may be adjusted steplessly by means of the adjustment screw. Connection of the pressure switch with an external electrical equipment is made by conductors attached to the terminal strip 6 and the gland 7 - in basic version.

The switch is susceptible to vibration and for that reason it is mounted with the buffers 9.

The pressure switches are design for the following pressure ranges : 2.5, 6.3, 10, 20, 40 MPa.

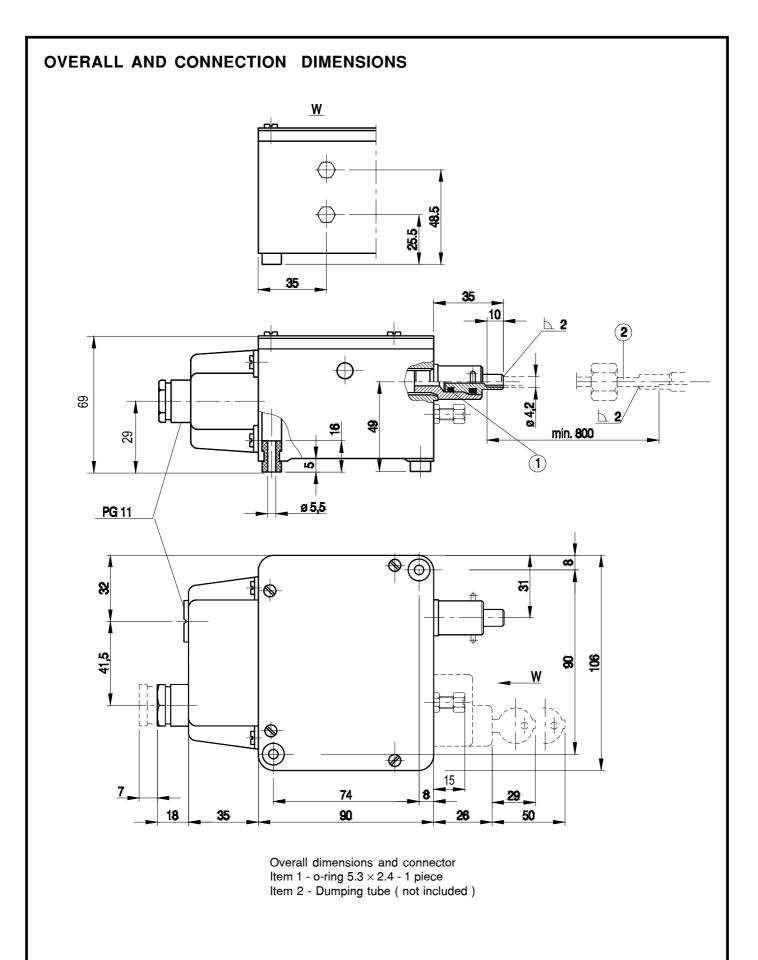


TECHNICAL DATA

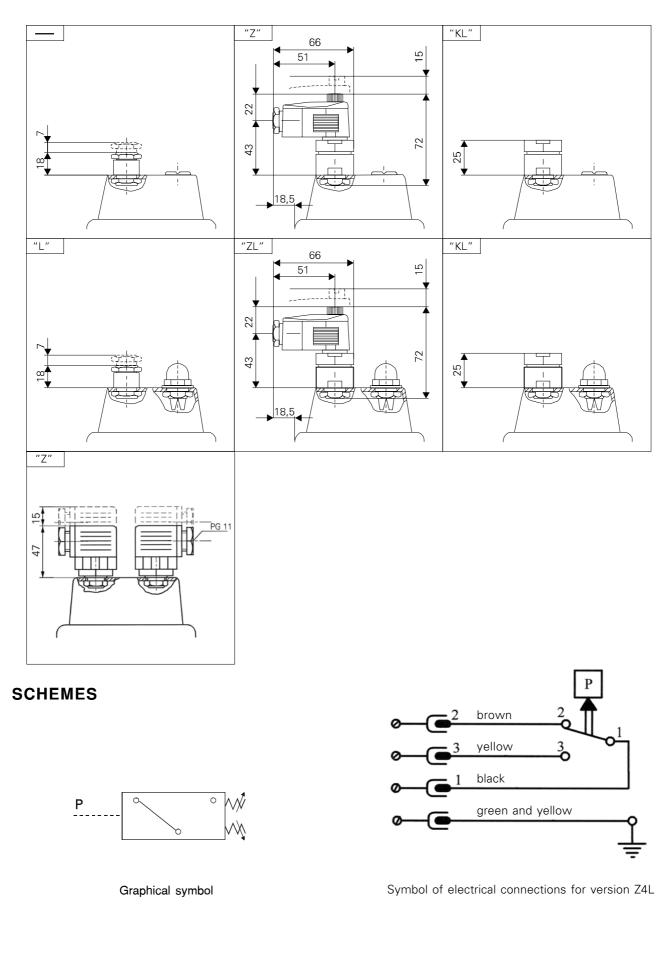
Operatin medium	Mineral oil, phosphate ester, gas, air					
Electrical connection with a gland	PG 11 ; max conductor dia = 8					
Insulation	Electrical connection with a gland					
	IP 55		IP 54			
Mounting position	Optional Fixing by 2 bolts M5 x 20 - 5.8 per PN-85/M - 82215 (DIN 384)					
Switching accuracy	± 1 %					
Switching frequency	30/min					
Contact loading	AC voltage		DC voltage			
	[V]	[A]	[V]	[A]		
	460	10	25 125 250	1.0 0.2 0.1		
Weight	~ 0.8 kg	•	•	•		

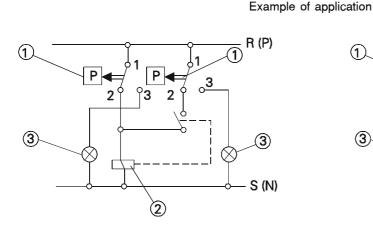
Setting ranges [MPa]			Fixed switching		Maximum	
Decreasin	g pressure	Increasing pressure		pressure difference	Pressure rating [MPa]	operating pressure
min	max	min	max	[MPa]	·]	[MPa]
0.15	2.5	0.25	2.6	0.1 - 2.35	2.5	3
0.4	6.3	0.6	6.5	0.2 - 5.9	6.3	7
0.6	10	0.9	10.3	0.3 - 9.4	10	11
1.0	20	1.8	20.8	0.8 - 19	20	21
2.0	40	3.2	41.2	1.2 - 38	40	42

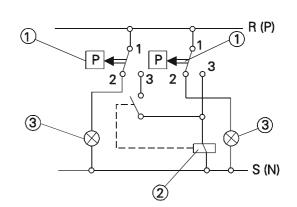
Note : Fixing bolts have to be ordered separately.



Electrical connection







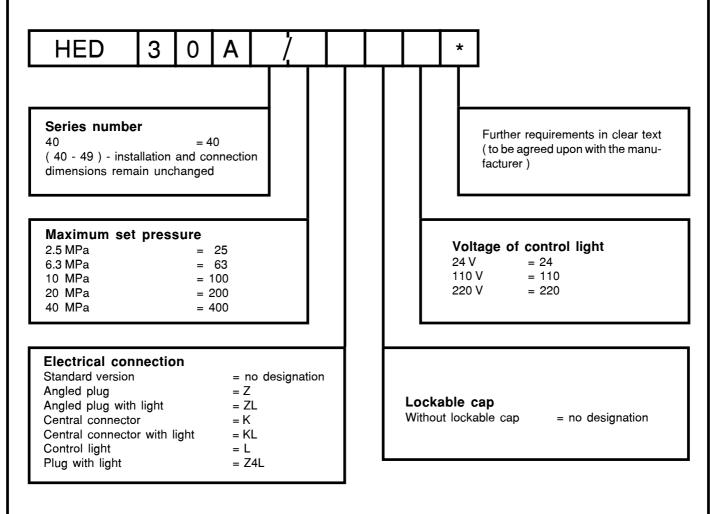
Differential switching with normally open contacts $(2 \times \text{HED})$

Differential switching with normally closed contacts $(2 \times HED)$

- 1 Pressure switch HED 3
- 2 Working relay
- 3 Control light

HOW TO ORDER

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



Coding example : HED 30 A 40/100ZL 110



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-maili: ponar@ponar-wadowice.pl