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HYDRAULICKÉ SYSTÉMY

## AULICKE SYSTEMY UKŁADY HYDRAULICZ

# Pressure Switches for all applications

DS - 507 / DS - 502





#### How to order DS-507 etc. 100% compatible (electrically and hydraulically) to DS-307/DS-302 DS-507 / P 90 = 90° - subplate (p max. = 350 bar) = lead seal (not for version with scale) Standard DS-507, DS-502 L-MP 24 = 4-pole appliance inlet 24 V-DC L-MP 220 = 4-pole appliance inlet 220 V-AC LED-34 = plug with indicating function DIN 43650 = electrical connector M 12 x 1 = contact gold on silver palladium = Viton®fluoroelastomers AUX S Pressure set at factory: standard pressure increasing, on request decreasing additional notes (indicated by bar) = flange mounting Dmax. V2 = scale and knurled knob special-SCH = panel mounting pressure ranges : standard sealing SS = with lock E 10 H2 \*AS-H2 55 = 5- 55 bar 300 bar 200 bar 100 = 10-100 bar 400 bar 200 bar \*\*SS = special sealing (low friction) 150 = 20-150 bar 500 bar only for following pressure ranges: 240 = 40-240 bar 500 bar 400 bar

350 = 20-350 bar

500 bar

400 bar

Viton® is a registered trademark of DuPont Performance Elastomers.

5 - 55 bar

40 - 240 bar

## Pressure Switch, Characteristics

10 - 100 bar

20 - 350 bar

DS-507/DS-502	piston diameter mm					
	ø 4		ø 5	ø 6		
1. General		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		96		
Design	spring-loaded piston, because of mechanical turn is no longer possible to get the spring screwed on "block					
Connection	thread G 1/4 female or subplate, pitch circle ø 44 mm					
Adjustment	adjustable screw top or knurled knob					
Safety	locking screw or lock (E 10 H2 [Type AS])					
Mounting position	variable					
2. Hydraulic data						
Switching pressure range	20-350 bar	40-240 bar	20-150 bar	10-100 bar	5-55 bar	
Switching accuracy	variations of less than 1%					
Ambient temperature	- 40 °C up to + 90 °C					
Fluid	oil, oil-in-water-emulsion					
3. Electric data						
Switch	mechanical double-throw switch > 10 Mio. circuits silver profile contact (Ag 999); on request (AUX): gold on silver palladium profile contact					
Current	AC - DC current					
Protection according to DIN 40050	IP 65					
Electrical connection	appliance inlet according to DIN 43650 (PG 9, on request PG 11 without additional price) / on request M 12 x					
4. Features	*11					
Housing	Aluminium					
Switching travel	~ 0,5 mm - reducing wear of seal and ram to a minimum					
Subplates	valve mounting NG 6 and NG 10 (only for subplate connection Type DS-507/F and DS-502/F)					

Rights of alteration reserved in sense of technical development!

In order to retain service-life over a long period vibrations, oscillations and high switching currents resp. inductive loads should - as far as possible - be avoided.

<sup>\*\*</sup> no stock delivery!

## Switching capacity

Nominal switching capacity:

Standard micro switch: Silver (Ag 999), CEE 24; VDE 0630 50 TSD circuits, T85, UL 1054/CSA C22.2 No. 55 6 TSD, T90



#### NOTE!

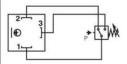
The unit may only be installed by technical specialists. Comply with the national and international regulations for the installation of electro-technical equipment. Voltage supply in compliance with EN 50178, SELV, PELV. Ensure that the equipment is not energized before connecting the unit.

voltage V	max. switching capacity resistive load A	motor load (inductiv) A	
250 AC	5	1	
24 DC 5		4	

## Electrical Connection

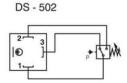
### Symbols

DS - 507 (Standard)



connection:

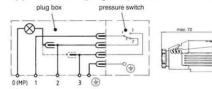
NCC: clamp 1-2 NOC: clamp 1-3



connection:

NCC: clamp 1-3 NOC: clamp 1-2

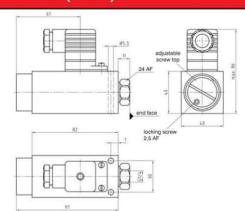
#### Appliance inlet (plug box) with indicator lamp



Utilization of the insert for indicator lamp only in connection with the plug box (see graphical symbol above). The indicator lamp can be connected to clamp 2 or clamp 3 on request. The clamp connection "MP" is directly provided on the sheet bar of the insert for indicator lamp.

# Dimensions DS-507(502)





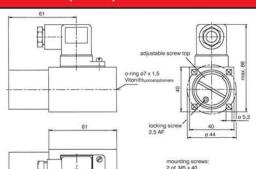
Connection: G 1/4 - female

Protection: IP 65

Limitation to avoid the fall out of the knurled knob by means of a snap ring.

# Dimensions DS-507(502)/F





Connection: subplate mounting

Protection: IP 65

Limitation to avoid the fall out of the knurled knob by means of a snap ring.