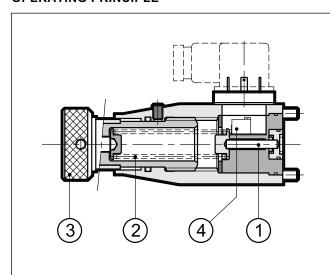




PS* PISTON TYPE PRESSURE SWITCH SERIES 21

p max 650 barmax adjustable p 35 - 140 - 350 - 630 bar

OPERATING PRINCIPLE



- PS* are piston type, hydro-electrical pressure switches.
 - The internal electrical contact is switched when the operating pressure reaches the set value.
- The line pressure acts on piston (1) which is directly loaded by a spring (2) on the opposite side. The spring load is adjustable by means of the knob (3). When the line pressure reaches the set valve, the piston (1) moves and switches the micro-contact (4).
- The pressure switches are available in four pressure ranges, from 35 up to 630 bar, and they can be subplate mounting or 1/4" BSP threaded port type.
- Standard supply is with adjustment knob and with pressure

TECHNICAL CHARACTERISTICS

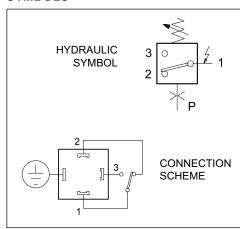
| PRESSURE SWITCH | | PS*2 | |
|----------------------------|---|-----------|--|
| Pressure adjustment range | bar | 3 ÷ 35 | |
| Max operating pressure | bar | 350 | |
| Hysteresis | see par. 5 | | |
| Repeatability | < ± 1 % of set pressure | | |
| Electrical characteristics | see par. 3 | | |
| Ambient temperature range | °C | -20 / +50 | |
| Fluid temperature range | °C | -20 / +80 | |
| Fluid viscosity range | cSt | 10 ÷ 400 | |
| Recommended viscosity | cSt | 25 | |
| Fluid contamination degree | according to ISO 4406:1999 class 20/18/15 | | |
| Mass | kg | 0,67 | |

SYMBOLS

PS*4

6 ÷ 140

350



PS*6

10 ÷ 350

650

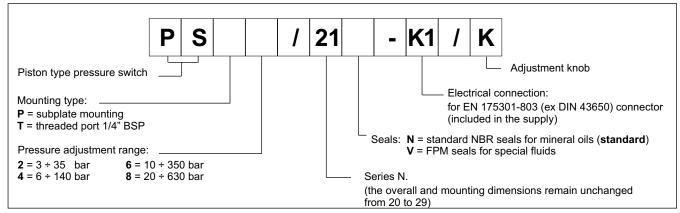
PS*8

20 ÷ 630

650

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1 - IDENTIFICATION CODE



2 - HYDRAULIC FLUIDS

Use mineral oil-based hydraulic fluids HL or HM type, according to ISO 6743-4. For these fluids, use NBR seals (code N). For fluids HFDR type (phosphate esters) use FPM seals (code V). For the use of other fluid types such as HFA, HFB, HFC, please consult our technical department. Using fluids at temperatures higher than 80 °C causes a faster degradation of the fluid and of the seals characteristics. The fluid must be preserved in its physical and chemical characteristics.

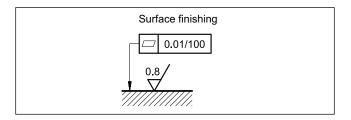
3 - ELECTRICAL CHARACTERISTICS

| | | | AC | | DC | |
|---|--------------|--------------------|--------|--------|-------------|--|
| Power supply | V | 125 | 250 | 30 | 250 | |
| Max load on contacts - resistive - inductive | А | 7 4 | 5 2 | 5 3 | 0,2 0,02 | |
| Electrical insulation (according to CEI EN 60204) | | > 1 M Ω at 500 Vdc | | | | |
| Max switching rate | switches/min | 120 | | | | |
| Protection class (according to CEI EN 60529) | | IP 65 | | | | |

4 - INSTALLATION

The pressure switches can be installed in any position without impairing its correct operation. Ensure that there is no air in the hydraulic circuit.

The subplate mounting pressure switch PSP type is fixed by means of screws on a flat surface with planarity and roughness values equal to or better than those indicated in the relative symbols. If the minimum values are not observed, the fluid can easily leak between the valve and the mounting surface.



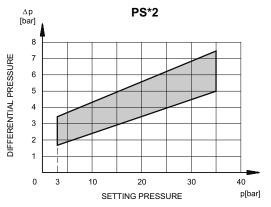
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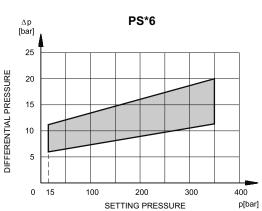


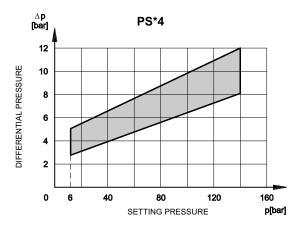
PS*

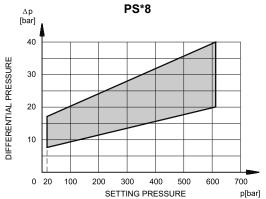
5 - HYSTERESIS CHARACTERISTICS

(values measured with viscosity of 36 cSt at 50°C)





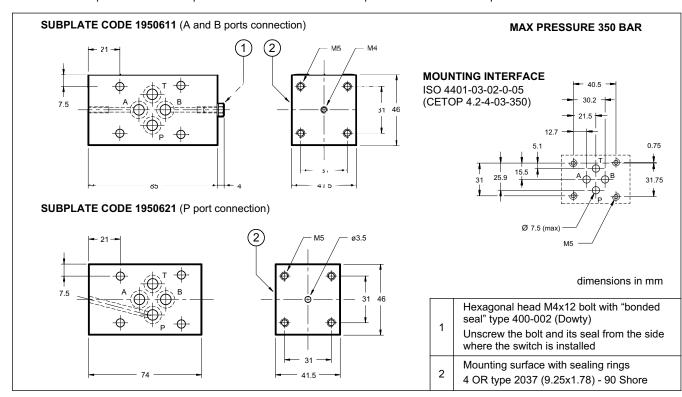




6 - SUBPLATES FOR STACK MOUNTING

The PSP pressure switches can be stack mounted by means of ISO 4401-03 (CETOP 03 subplates), code 1950611 and 1950621.

The subplate code 1950611 permits the connection between the pressure switch and A and/or B ports, depending on where the bolt (1) is installed. The subplate code 1950621 permits the connection between the pressure switch and the P port.



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7 - OVERALL AND MOUNTING DIMENSIONS

