



TECHNICAL DATA AND SELECTION OF THE PRESSURE SWITCHES

Regulation screw:

SCREW IN to get an HIGHER pressure

UNSCREW to get a LOWER pressure

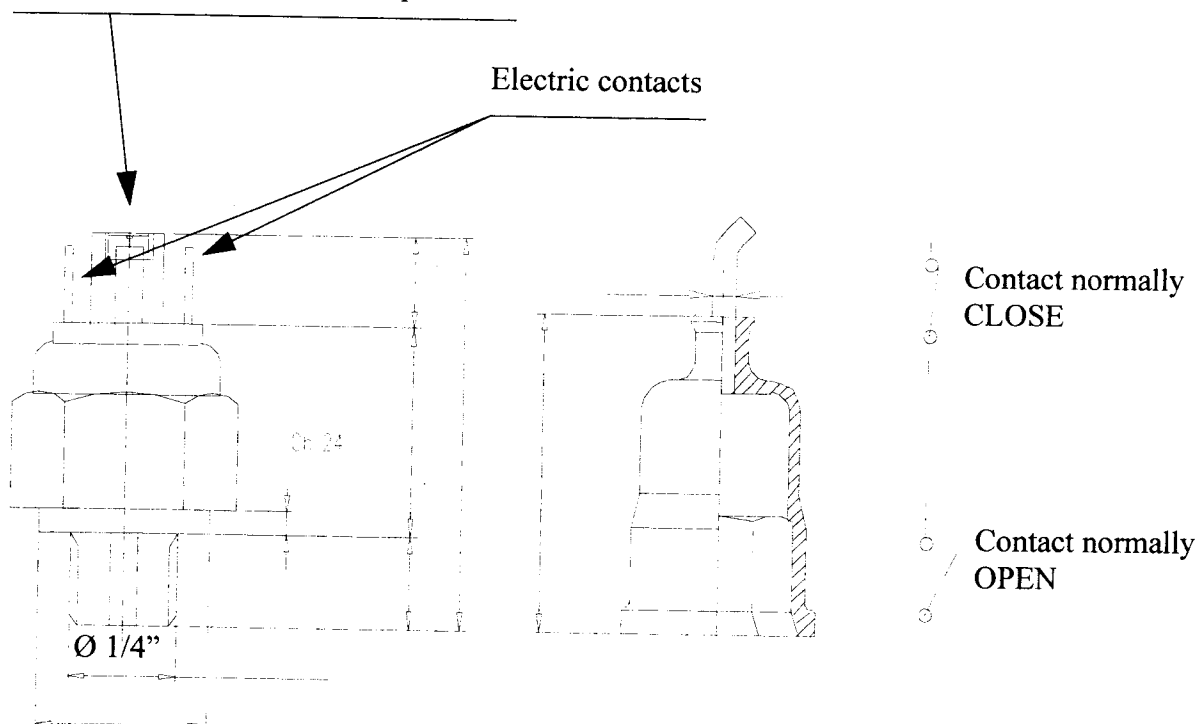


Figure 1: Pressure switch and protection cap.

MATERIALS

- Body Ch 24.....Tropicalised steel (Brass for 650904G01)
- Contacts.....Silver plated 3 microns

The pressure switches are mounted directly on H 300 valve body and they are constantly under pressure. Both normally open switch and normally close switch are available.

The pressure switches selection depends on contact type (normally open or close) and working pressure.



Table 1: Pressure switches selection

Description	Function	Pressure range (bar)	Tolerance range 25° C (bar)	Differential at 25° C (bar)	Max. press. (bar)
Pressure switch 20-70 bar	Contact normally open.	20 - 70	+/- 1	0,8	300
Pressure switch 20-70 bar	Contact normally close.	20 - 70	+/- 1	0,8	300
Pressure switch 0-10 bar for rupture valve	Norm. open, for low pressure (jack rupture valve)	0 - 10	+/- 0,3	0,2	80

TECHNICAL DATA

- Max working voltage.....up to 48 V
- Working temperature range.....from.-5° C until + 60° C
- Tightening torque.....max 0.5 Kgm

N.B. : The pressure switches are delivered already wired, with two female contacts connected to the wire. Three cable lengths are available: 0,8 m (standard) 2,3 m or 5 m: specify required cable length in the order form.



HL 04.09 - 3/4

Rev:B

Date:09-99

ISTRUCTIONS FOR INSTALLATION AND SETUP

The pressure switches can be installed in the place of both the two caps on the upper face of the H300 valve (see Fig. 2) if more than two pressure switches are needed, use "T" fittings.

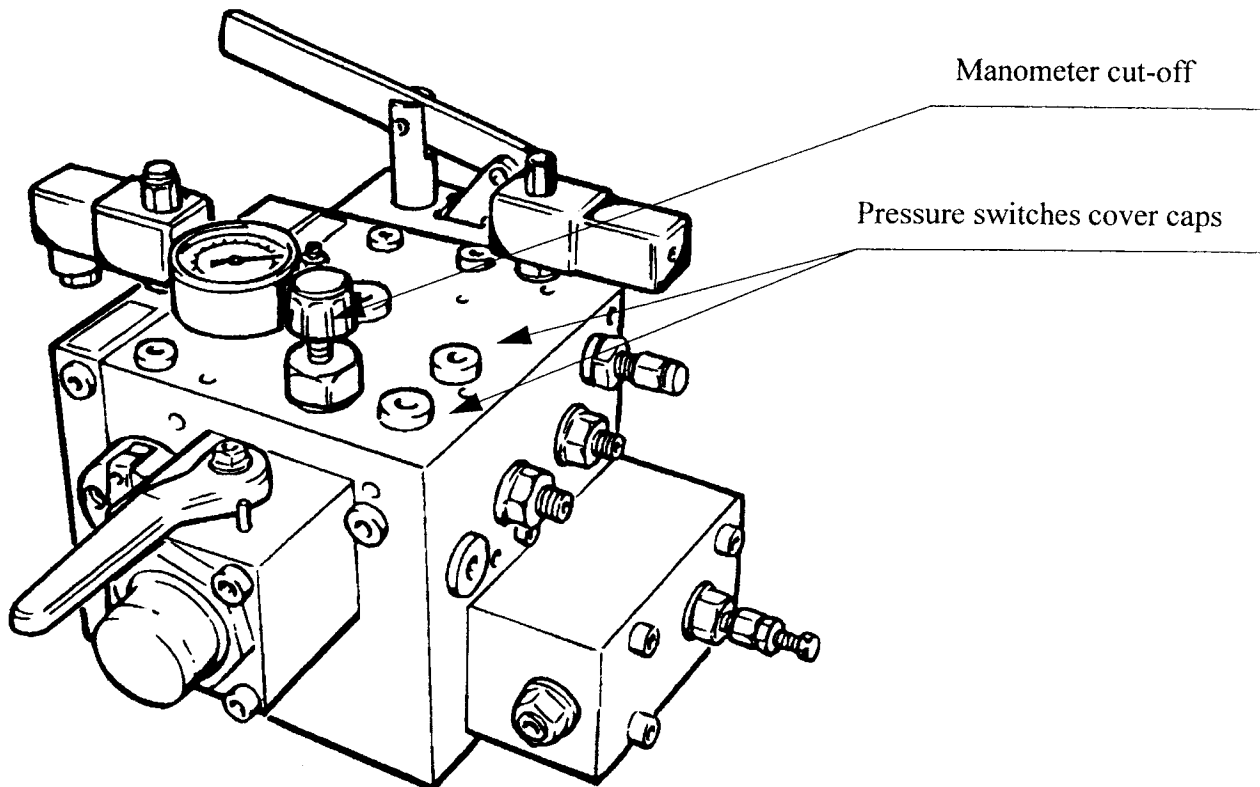


Figure 2: Position of the pressure switches cover caps.

INSTALLATION

- Close the shut off valve and discharge the pressure inside the H300 valve.
- Screw away one of the two caps using a M6 hexagonal key.
- Insert the bonded seal in the pressure switch body thread and screw it in place with a 24 mm key.
- Connect the two female contacts of the wire with the male contacts on the pressure switch body (see Fig. 1).
- Insert the black rubber cap on the pressure switch body. Be careful not to disconnect the electric contacts.
- Connect the free end of the cable with two free binding clamps in the terminal box.
- Connect the terminal box with the power panel (the setup depends on the type of the power panel: contact the manufacturer).



HL 04.09 - 4/4

Rev:B

Date:09-99

REGULATION INSTRUCTIONS

The pressure switches regulation is made turning the screw on the top of the p.s. body (see Fig. 1). Screwing the screw inside the body an **higher** switching pressure is obtained, unscrewing it a **lower** switching pressure is obtained.

- After the pressure switch installation, open the shut off valve to give pressure to the H300 valve.
- Open the manometer cut off cock (see Fig. 2): the manometer must indicate the static pressure of the lift.
- Close the shut off valve again.
- Actuate the hand pump until the manometer indicates the right switching pressure (see "SWITCHING PRESSURES" here below).
- Connect the two wires of the pressure switch cable (that end in the terminal box) with a device (ex. a tester) that can detect electric circuit continuity.
- Turn the regulation screw on the pressure switch body to obtain the switching OPEN/CLOSE (or CLOSE / OPEN if the pressure switch is of the normally close type) at the right pressure.

SWITCHING PRESSURES:

- Overpressure: $1,4 \times$ max. static pressure.
- Overload (according to EN81-2 pto. 14.2.5.2): $1,1 \times$ max. static pressure.
- Full load: 75% of the rated load or $0,9 \times$ max. static pressure.