

# Operating instructions

## Vacuum switch / Differential vacuum switch

# 610

### Attention

- Do not change adjustment of switches adjusted in the factory.
- Obtain largest and smallest adjustment differences between upper and lower switching points from the diagram.

For settings beyond the prescribed  $\Delta p$ -values (diagram) the connections 3-2 can be short-circuited which will create an inadmissible operating condition.

- Do not change adjustment of screw 5.
- Adjust upper and lower switching points with the main adjusting screw (1).
- With differential vacuum: Connection 4 = P2.  
P1 = higher vacuum.

### Installation

Can be installed in any position. Adjust switching points in installed position. With switching points adjusted in the factory observe specified installation position.

### Adjustment of switching points

Screw 1:

For the lower switching point (lower vacuum) turn in direction minus  $\ominus$  for higher switching points!

Allow vacuum to increase slowly until the higher switching point switches. Decrease vacuum slowly until the lower switching point switches. Repeat this cycle by adjusting screw 1 until the lower switching point is set.

Screw 2:

Setting of switching difference

(Set first the lower switching point with screw 1 !)

For the higher switching point (higher vacuum respectively switching difference) cycle as above, turn clockwise. The switching difference gets larger (higher switching point gets higher).

Screw 3: do not adjust !

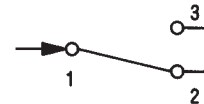
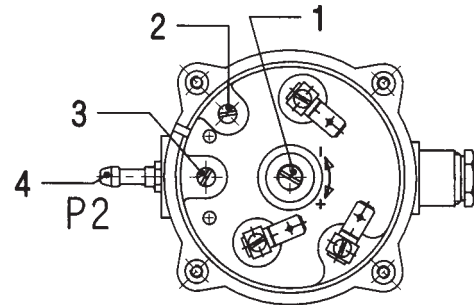
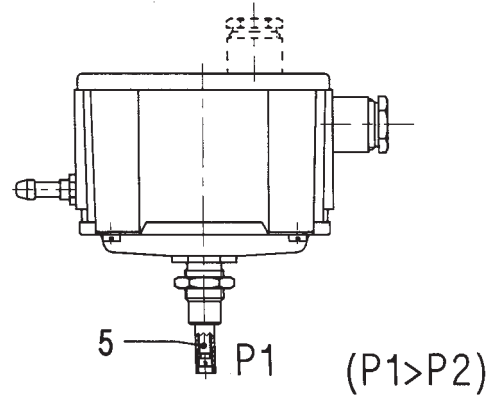
(If necessary repeat adjustment with screw 1 and then screw 2)

### After setting !

Varnish screw 1 and 2

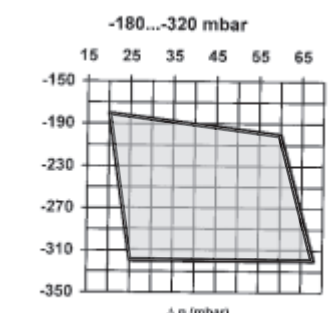
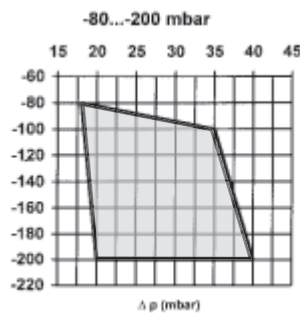
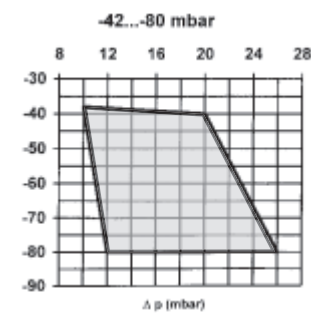
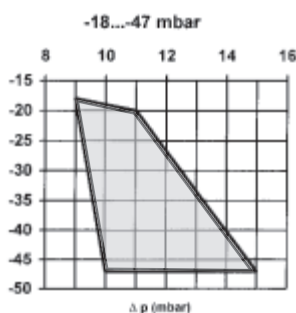
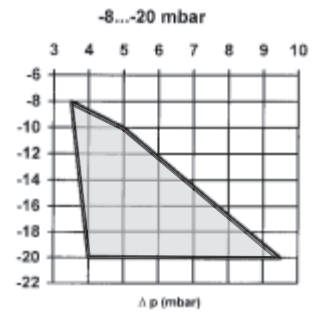
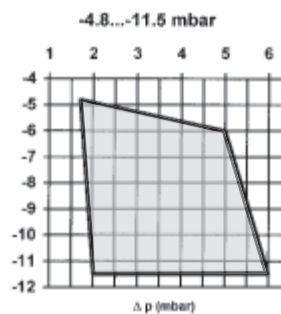
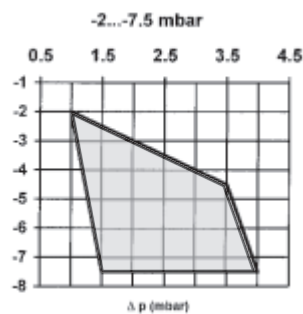
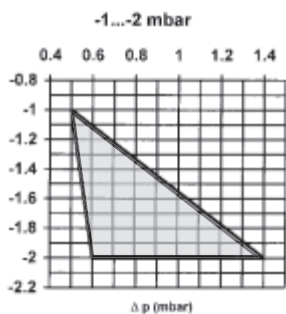
For differential vacuum switch varnish screw 1 air-tight

(Vacuum switches do not necessarily have to be varnish air-tight)



### Example of reading measurement values

- 1 Enter upper switching point, e.g. -1,5 mbar.
- 2 Read the available, adjustable switching difference (in the example 0.55 - 0.95 mbar).



- 1) Supply cable
- 2) Closed circuit contact
- 3) Open circuit contact