

0140/0141

Diaphragm/piston pressure switches 250 V

Zinc-plated steel body (CrVI-free), with screw terminals
 With changeover switch and silver contacts
 Overpressure safe to 300/600 bar ¹⁾

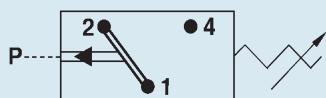
- See page 7 for electrical properties



With male thread



- Also available with switching point preset in our works.
- For ready-wired variants, see page 34 onwards.
- Other body materials and connection threads on request.
- Protection class 2, protective insulation
- Other diaphragm / seal materials on request, e.g. HNBR, silicone (last one for diaphragm type only).



- For further technical data, see page 23.

0140 Diaphragm pressure switches with screw terminals

| Adjustment range in bar | Tolerance in bar (at room temperature) | Thread | Order number | p _{max.} in bar |
|-------------------------|--|-------------|-----------------|--------------------------|
| 0.3 – 1.5 | ± 0.2 | G 1/4 | 0140 457 03 003 | 300 ¹⁾ |
| | | NPT 1/8 | 0140 457 04 300 | |
| | | NPT 1/4 | 0140 457 09 305 | |
| | | 7/16-20 UNF | 0140 457 20 310 | |
| | | 9/16-18 UNF | 0140 457 21 315 | |
| 1 – 10 | ± 0.5 | G 1/4 | 0140 458 03 006 | |
| | | NPT 1/8 | 0140 458 04 301 | |
| | | NPT 1/4 | 0140 458 09 306 | |
| | | 7/16-20 UNF | 0140 458 20 311 | |
| | | 9/16-18 UNF | 0140 458 21 316 | |
| 10 – 20 | ± 1.0 | G 1/4 | 0140 459 03 009 | |
| | | NPT 1/8 | 0140 459 04 302 | |
| | | NPT 1/4 | 0140 459 09 307 | |
| | | 7/16-20 UNF | 0140 459 20 312 | |
| | | 9/16-18 UNF | 0140 459 21 317 | |
| 20 – 50 | ± 2.0 | G 1/4 | 0140 461 03 012 | |
| | | NPT 1/8 | 0140 461 04 303 | |
| | | NPT 1/4 | 0140 461 09 308 | |
| | | 7/16-20 UNF | 0140 461 20 313 | |
| | | 9/16-18 UNF | 0140 461 21 318 | |

0141 Piston pressure switches with screw terminals

| Adjustment range in bar | Tolerance in bar (at room temperature) | Thread | Order number | p _{max.} in bar |
|-------------------------|--|-------------|-----------------|--------------------------|
| 50 – 150 | ± 5.0 | G 1/4 | 0141 460 03 003 | 600 ¹⁾ |
| | | NPT 1/8 | 0141 460 04 304 | |
| | | NPT 1/4 | 0141 460 09 309 | |
| | | 7/16-20 UNF | 0141 460 20 314 | |
| | | 9/16-18 UNF | 0141 460 21 319 | |

Order number 014X XXX XX X XXX
Add figure for diaphragm/seal material

| | | | |
|---|---|---|----------|
| NBR | Hydraulic / machine oil, turpentine, heating oil, air etc. | = | 1 |
| EPDM | Brake fluid, ozone, acetylene, hydrogen etc. | = | 2 |
| FKM | Hydraulic fluids (HFA, HFB, HFC, HFD), petrol/gasoline etc. | = | 3 |
| See page 23 for temperature ranges of diaphragm/seal materials | | | |

Warning!

When using with oxygen, the relevant accident-prevention regulations must be observed. In addition, we recommend that a maximum operating pressure of 10 bar is not exceeded.

Piston-type pressure switches are only to a limited extent suitable for use with gases and oxygen. See explanation on page 5.

¹⁾ Static pressure, dynamic pressures should be 30 to 50% lower. These values refer to the hydraulic or pneumatic part of the pressure switch.

Degree of protection IP65

The type approval does not apply without restriction to all environmental conditions. It is the responsibility of the user to check whether the connection complies with regulations other than those stated, and whether it can be used for special applications which could not be foreseen by us in advance.