

0240/0241

Diaphragm/piston pressure switches

Depending on connection, suitable for 42 V or 250 V
With snap action switch and silver contacts
Overpressure safe to **4350/8700** psi¹⁾



Technical Data

Voltage:	42 V / 250 V depending on connection
Current:	max. 2 A
Degree of protection:	IP67
Protection class:	2, protective insulation, <input type="checkbox"/>
Switching frequency:	200 / min.
Differential:	10 – 20% not adjustable
Mechanical life expectancy:	10 ⁶ cycles (at pressures up to 50 bar)
Materials:	body: zinc-plated steel protective cover: anodised aluminum
cable:	standard delivery 2 m with wire end sleeves
max. ramp rate:	≤ 15 psi / ms

- Switching point can be adjusted after potting
- Degree of protection **IP67**

0240 Diaphragm pressure switches

Adjustment range in psi	Tolerance in psi (at room temperature)	Thread	Order number				P _{max.} in psi
4.35 – 21.75	± 2.9	1/4" BSPP	0240	457	03	003	4350 ¹⁾
		NPT 1/8	0240	457	04	300	
		NPT 1/4	0240	457	09	305	
		7/16-20 UNF	0240	457	20	310	
		9/16-18 UNF	0240	457	21	315	
14.5 – 145	± 7.25	1/4" BSPP	0240	458	03	006	
		NPT 1/8	0240	458	04	301	
		NPT 1/4	0240	458	09	306	
		7/16-20 UNF	0240	458	20	311	
		9/16-18 UNF	0240	458	21	316	
145 – 290	± 14.5	1/4" BSPP	0240	459	03	009	
		NPT 1/8	0240	459	04	302	
		NPT 1/4	0240	459	09	307	
		7/16-20 UNF	0240	459	20	312	
		9/16-18 UNF	0240	459	21	317	
290 – 725	± 29.0	1/4" BSPP	0240	461	03	012	
		NPT 1/8	0240	461	04	303	
		NPT 1/4	0240	461	09	308	
		7/16-20 UNF	0240	461	20	313	
		9/16-18 UNF	0240	461	21	318	

0241 Piston pressure switches

Adjustment range in psi	Tolerance in psi (at room temperature)	Thread	Order number				P _{max.} in psi
725 – 2175	± 72.5	1/4" BSPP	0241	460	03	003	8700 ¹⁾
		NPT 1/8	0241	460	04	304	
		NPT 1/4	0241	460	09	309	
		7/16-20 UNF	0241	460	20	314	
		9/16-18 UNF	0241	460	21	319	

Order number:
Add figure for
diaphragm/seal material

024X XXX XX **X** XXX

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

Warning!

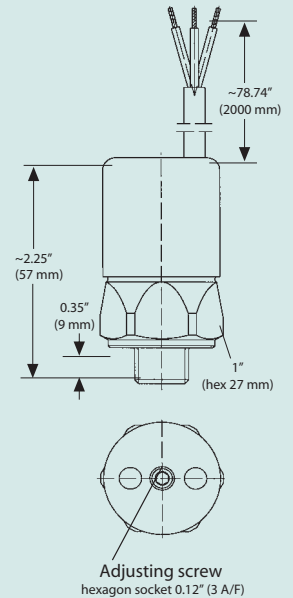
When using with oxygen, the relevant accident-prevention regulations must be observed. In addition, we recommend that a maximum operating pressure of 145 psi is not exceeded.

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 IP67

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.



- Options:
other cable lengths and connectors on request
fixed, pre-set switching point

- Other body materials and connection threads on request.

- Other diaphragm/seal materials on request, e.g. HNBR, silicone (last one for diaphragm type only).

Contact assignment:

- 1 = black
- 2 = red
- 4 = white

