

0240/0241

Diaphragm / piston pressure switches

- Made of zinc-plated steel (Cr VI-free)
- Overpressure safe to 300 / 600 bar¹⁾
- Switching point adjustable during operation
- Safety class 2, safety insulation



p _{max.} in bar	Adjustment range in bar	Tolerance at room temperature	Thread	Order number:
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0240 Diaphragm pressure switches

300 ¹⁾	0.3 – 1.5	± 0.2	G 1/4	0240	457 03	X	003
			NPT 1/8	0240	457 04	X	300
			NPT 1/4	0240	457 09	X	305
			7/16-20 UNF	0240	457 20	X	310
			9/16-18 UNF	0240	457 21	X	315
	1 – 10	± 0.5	G 1/4	0240	458 03	X	006
			NPT 1/8	0240	458 04	X	301
			NPT 1/4	0240	458 09	X	306
			7/16-20 UNF	0240	458 20	X	311
			9/16-18 UNF	0240	458 21	X	316
	10 – 20	± 1.0	G 1/4	0240	459 03	X	009
			NPT 1/8	0240	459 04	X	302
			NPT 1/4	0240	459 09	X	307
			7/16-20 UNF	0240	459 20	X	312
			9/16-18 UNF	0240	459 21	X	317
	20 – 50	± 2.0	G 1/4	0240	461 03	X	012
			NPT 1/8	0240	461 04	X	303
			NPT 1/4	0240	461 09	X	308
			7/16-20 UNF	0240	461 20	X	313
			9/16-18 UNF	0240	461 21	X	318

0241 Piston pressure switches

600 ¹⁾	50 – 150	± 5.0	G 1/4	0241	460 03	X	003
			NPT 1/8	0241	460 04	X	304
			NPT 1/4	0241	460 09	X	309
			7/16-20 UNF	0241	460 20	X	314
			9/16-18 UNF	0241	460 21	X	319

Diaphragm / seal material – areas of application

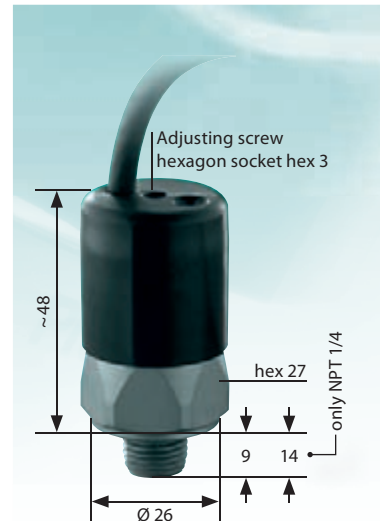
NBR	Hydraulic / machine oil, heating oil, air, nitrogen etc.	1
EPDM	Brake fluid, ozone, acetylene, hydrogen etc.	2
FKM	Hydraulic fluids (HFA, HFB, HFD), petrol/gasoline etc.	3

Temperature ranges of diaphragm / seal materials see page 40

Order number:	024X - XXX XX - X - XXX
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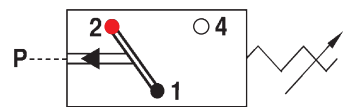
Piston pressure switches are only to a limited extent suitable for use with gases.
See explanation on page 9.

With male thread



Contact assignment:

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



Options:

- other cable lengths and connectors on request
- fixed preset switching point

- We offer other body materials and connecting threads upon request.

- Other diaphragm- / seal materials are available on request, e.g. HNBR or silicone for diaphragm pressure switches.

¹⁾ Static value. Dynamic value is 30-50% lower. The values refer to the hydraulic or pneumatic part of the pressure switch.

0240/0241

Diaphragm / piston pressure switch



- With changeover switch and silver contacts
- Switching point can be adjusted after potting, degree of protection IP67
- Depending on connection, suitable for 42 V or 250 V

CE marking

SUCO pressure switches rated with an operating limit of 250 V are covered by the Low Voltage Directive 73/23/EC.

An EC Declaration of Conformity has been issued for these pressure switches and is on file at our offices. The corresponding switches bear the CE mark in our catalogue.



Degree of protection type IP67

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

Oxygen warning!

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

Technical data

Voltage:	max. 42 V / 250 V depending on connection	
Current:	max. 2 Ampere	
Protection class:	2, protective insulation <input type="checkbox"/>	
Temperature resistance of the membrane / seal materials	NBR (Buna-N)	-40°C – +100°C
	EPDM	-30°C – +120°C
	FKM	-5°C – +120°C
	Silicone	-40°C – +120°C
	HNBR	-30°C – +120°C
Switching frequency:	200 / min.	
Mechanical life expectancy:	10 ⁶ cycles (for diaphragm pressure switches, life expectancy value only applicable for pressures up to max. 50 bar)	
Pressure rise rate:	≤ 1 bar / ms	
Hysteresis:	Average value of 10-20% (not adjustable)	
Vibration resistance:	10 g / 5 – 200 Hz sine wave	
Shock resistance:	294 m / s ² ; 14 ms half sine wave	
Materials:	Zinc-plated steel body Protective cover anodised aluminium	
Cable:	Standard length 2 m with wire end sleeves	
Degree of protection:	IP67	
Weight in grams:	approx. 100 g	