

Diaphragm pressure switches, 42 V

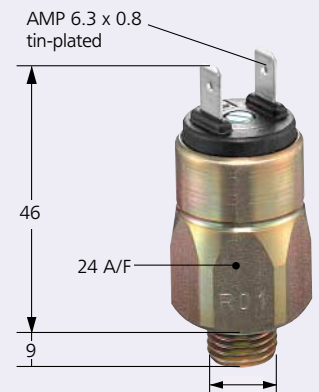
Zinc-plated steel body
With push-on terminals
Overpressure safe to 300 bar^{*)}



0166 Diaphragm pressure switches

Adjustment range in bar (tolerance at RT)	Thread	Normally open (no) → :	Normally closed (nc) → :
0.1-1 (± 0.2)	M10x1 taper	0166 403 01 009	0166 404 01 013
	M 12x1.5	0166 403 02 010	0166 404 02 014
	G 1/4"	0166 403 03 011	0166 404 03 015
	NPT 1/8"	0166 403 04 012	0166 404 04 016
	G 1/8"	0166 403 28 603	0166 404 28 604
	M 10x1 cyl.	0166 403 13 003	0166 404 13 004
1-10 (± 0.5)	M 10x1 taper	0166 407 01 025	0166 408 01 029
	M 12x1.5	0166 407 02 026	0166 408 02 030
	G 1/4"	0166 407 03 027	0166 408 03 031
	NPT 1/8"	0166 407 04 028	0166 408 04 032
	G 1/8"	0166 407 28 607	0166 408 28 608
	M 10x1 cyl.	0166 407 13 007	0166 408 13 008
10-20 (± 1.0)	M 10x1 taper	0166 411 01 041	0166 412 01 045
	M 12x1.5	0166 411 02 042	0166 412 02 046
	G 1/4"	0166 411 03 043	0166 412 03 047
	NPT 1/8"	0166 411 04 044	0166 412 04 048
	G 1/8"	0166 411 28 611	0166 412 28 612
	M 10x1 cyl.	0166 411 13 011	0166 412 13 012
20-50 (±2.0)	M 10x1 taper	0166 415 01 057	0166 416 01 061
	M 12x1.5	0166 415 02 058	0166 416 02 062
	G 1/4"	0166 415 03 059	0166 416 03 063
	NPT 1/8"	0166 415 04 060	0166 416 04 064
	G 1/8"	0166 415 28 615	0166 416 28 616
	M 10x1 cyl.	0166 415 13 015	0166 416 13 016

With external thread



- Also available with switching point preset in our works.
- For ready-wired variants, see page 30 onwards.
- Other body materials and connection threads on request.

Order No.:
Add figure for
diaphragm/seal material

0166 XXX XX **X** XXX 0166 XXX XX **X** XXX

NBR	Hydraulic / machine oil, turpentine, heating oil, air etc.	=	1	=	1
EPDM	Hydrogen, acetylene, ozone, brake fluid etc.	=	2	=	2
FKM	Hydraulic fluids (HFA, HFB, HFC, HFD), petrol/gasoline etc.	=	3	=	3

See page 10 for temperature ranges of diaphragm 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.

^{*)} 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.

- Accessories: see page 19



Pressure Switches

24 A/F

Normally open or normally closed,
Maximum voltage 42 V



TECHNICAL DATA

Degree of protection:	IP 65
	Terminals IP 00
Switching frequency:	200 / min.
Temperature stability:	NBR -30° ... +100°C EPDM -30° ... +120°C FKM - 5° ... +120°C
Mechanical life expectancy:	10 ⁶ cycles (at pressures up to 50 bar)
Vibration resistance:	10 g / 5-200 Hz sine-wave
Shock resistance:	294 m/s ² ; 14 ms half-sine-wave



TECHNICAL DATA

Type	Switching power	Material		Overpressure safe up to:		
		Zinc-plated Steel	Brass	20 bar	300 bar	600 bar
0163	•	•				•
0166	•	•			•	
0167	•		•	•		
0168	•	•			•	
0169	•	•				•

- Compact switch design, normally closed (nc) or normally open (no)
- Low-cost mechanical pressure switch to high Suco quality standards
- High overpressure resistance and long working life even under harsh operating conditions
- Switching point easy to adjust - even during operation¹⁾
- Various thread connections to suit your installation (see relevant product data sheet)
- Ready-wired variants - see Catalogue page 30
- Versions with push-on and screw terminals
- Available with gold contacts on request
- Other body materials are also possible

¹⁾ Pressure switches can be supplied preset from our works. Switches we have preset are secured with sealing paint and have the switching pressure stamped on their body.

Accessories

For all 24 A/F pressure switches



Protective cap

With central cable gland
for 1.5 ... 5 mm cable diameter
Order No.: 1-1-66-621-010



Protective cap

With two cable entries
for 1.7 ... 2.2 mm cable diameter
Order No.: 1-1-66-621-003