

Diaphragm pressure switches, 42 V



Brass body

With screw or push-on terminals

Overpressure safe to 20 bar^{*)}

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.
- Accessories: see page 19

0167 Diaphragm pressure switches with screw terminals

Adjustment range in bar (tolerance at RT)	Thread	Normally open (no) → :		Normally closed (nc) →:]	
0.1-1 (±0.2)	M 10x1 taper	0167	401 01	001	0167 402 01 004
	R 1/8" taper	0167	401 12	002	0167 402 12 005
	R 1/2" taper	0167	401 07	003	0167 402 07 006
	G 1/4"	0167	401 03	037	0167 402 03 038
1-10 (±0.5)	M 10x1 taper	0167	405 01	013	0167 406 01 016
	R 1/8" taper	0167	405 12	014	0167 406 12 017
	R 1/2" taper	0167	405 07	015	0167 406 07 018
	G 1/4"	0167	405 03	041	0167 406 03 042
10-20 (±1.0)	M 10x1 taper	0167	409 01	025	0167 410 01 028
	R 1/8" taper	0167	409 12	026	0167 410 12 029
	R 1/2" taper	0167	409 07	027	0167 410 07 030
	G 1/4"	0167	409 03	045	0167 410 03 046

0167 Diaphragm pressure switches with push-on terminals

Adjustment range in bar (tolerance at RT)	Thread	Normally open (no) → :		Normally closed (nc) →:]	
0.1-1 (±0.2)	M 10x1 taper	0167	403 01	007	0167 404 01 010
	R 1/8" taper	0167	403 12	008	0167 404 12 011
	R 1/2" taper	0167	403 07	009	0167 404 07 012
	G 1/4"	0167	403 03	039	0167 404 03 040
1-10 (±0.5)	M 10x1 taper	0167	407 01	019	0167 408 01 022
	R 1/8" taper	0167	407 12	020	0167 408 12 023
	R 1/2" taper	0167	407 07	021	0167 408 07 024
	G 1/4"	0167	407 03	043	0167 408 03 044
10-20 (±1.0)	M 10x1 taper	0167	411 01	031	0167 412 01 034
	R 1/8" taper	0167	411 12	032	0167 412 12 035
	R 1/2" taper	0167	411 07	033	0167 412 07 036
	G 1/4"	0167	411 03	047	0167 412 03 048

Order No.:
Add figure for
diaphragm/seal material

0167 XXX XX **X** XXX0167 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.

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