

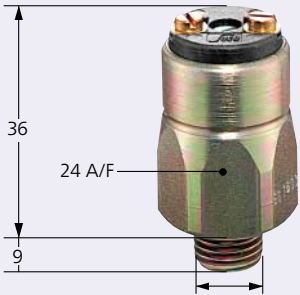
0166

Diaphragm pressure switches, 42 V



Zinc-plated steel body
With M3 screw terminals
Overpressure safe to 300 bar *)

With external thread



- Also available with switching point preset in our works.
- Other body materials and connection threads on request

• Accessories: see page 19



0166 Diaphragm pressure switches

Adjustment range in bar (tolerance at RT)	Thread	Normally open (no) → :		Normally closed (nc) → :	
0.1-1 (± 0.2)	M 10x1 taper	0166 401 01	001	0166 402 01	005
	M 12x1.5	0166 401 02	002	0166 402 02	006
	G 1/4"	0166 401 03	003	0166 402 03	007
	NPT 1/8"	0166 401 04	004	0166 402 04	008
	G 1/8"	0166 401 28	601	0166 402 28	602
	M 10x1 cyl.	0166 401 13	001	0166 402 13	002
1-10 (± 0.5)	M 10x1 taper	0166 405 01	017	0166 406 01	021
	M 12x1.5	0166 405 02	018	0166 406 02	022
	G 1/4"	0166 405 03	019	0166 406 03	023
	NPT 1/8"	0166 405 04	020	0166 406 04	024
	G 1/8"	0166 405 28	605	0166 406 28	606
	M 10x1 cyl.	0166 405 13	005	0166 406 13	006
10-20 (± 1.0)	M 10x1 taper	0166 409 01	033	0166 410 01	037
	M 12x1.5	0166 409 02	034	0166 410 02	038
	G 1/4"	0166 409 03	035	0166 410 03	039
	NPT 1/8"	0166 409 04	036	0166 410 04	040
	G 1/8"	0166 409 28	609	0166 410 28	610
	M 10x1 cyl.	0166 409 13	009	0166 410 13	010
20-50 (± 2.0)	M 10x1 taper	0166 413 01	049	0166 414 01	053
	M 12x1.5	0166 413 02	050	0166 414 02	054
	G 1/4"	0166 413 03	051	0166 414 03	055
	NPT 1/8"	0166 413 04	052	0166 414 04	056
	G 1/8"	0166 413 28	613	0166 414 28	614
	M 10x1 cyl.	0166 413 13	013	0166 414 13	014

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.

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