

# 0168

## Diaphragm pressure switches, 42 V

Zinc-plated steel body,

With screw or push-on terminals

Overpressure safe to 300 bar<sup>\*)</sup>

With internal thread for compression fittings to DIN 2353



### 0168 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 12 x 1,5 internal	0168 401 16   001	0168 402 16   002
1-10 (± 0.5)		0168 405 16   005	0168 406 16   006
10-20 (± 1.0)		0168 409 16   009	0168 410 16   010
20-50 (±2.0)		0168 413 16   013	0168 414 16   014

### 0168 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 12 x 1,5 internal	0168 403 16   003	0168 404 16   004
1-10 (± 0.5)		0168 407 16   007	0168 408 16   008
10-20 (± 1.0)		0168 411 16   011	0168 412 16   012
20-50 (±2.0)		0168 415 16   015	0168 416 16   016

**Order No.:**  
**Add figure for**  
**diaphragm/seal material**

0168 XXX XX **X** XXX      0168 XXX XX **X** XXX

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

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.

<sup>\*)</sup> 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.

With internal 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



# 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 <sup>6</sup> cycles (at pressures up to 50 bar)
Vibration resistance:	10 g / 5-200 Hz sine-wave
Shock resistance:	294 m/s <sup>2</sup> ; 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
<b>0163</b>	•	•				•
<b>0166</b>	•	•			•	
<b>0167</b>	•		•	•		
<b>0168</b>	•	•			•	
<b>0169</b>	•	•				•

- 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 operation<sup>1)</sup>
- 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

<sup>1)</sup> 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**