

# 0163

## Diaphragm pressure switches 42 V

Zinc-plated steel body  
 With M3 screw terminals  
 Overpressure safe to 600 bar <sup>1)</sup>



With external thread



- Also available with switching point preset in our works.
- Other body materials and connection threads on request.
- Other diaphragm / seal materials on request, e.g. HNBR, silicone (last one for diaphragm type only).

• Accessories: see page 21



### 0163 Diaphragm pressure switches with screw terminals

Adjustment range in bar (tolerance at room temperature)	Thread	Normally open (no) → :	Normally closed (nc) →:
0.1–1 (± 0.2)	M 10x1 taper	0163 401 01 X 001	0163 402 01 X 005
	M 12x1.5	0163 401 02 X 002	0163 402 02 X 006
	G 1/4	0163 401 03 X 003	0163 402 03 X 007
	NPT 1/8	0163 401 04 X 004	0163 402 04 X 008
	G 1/8	0163 401 28 X 601	0163 402 28 X 602
	M 10x1 cyl.	0163 401 13 X 001	0163 402 13 X 002
1–10 (± 0.5)	M 10x1 taper	0163 405 01 X 017	0163 406 01 X 021
	M 12x1.5	0163 405 02 X 018	0163 406 02 X 022
	G 1/4	0163 405 03 X 019	0163 406 03 X 023
	NPT 1/8	0163 405 04 X 020	0163 406 04 X 024
	G 1/8	0163 405 28 X 605	0163 406 28 X 606
	M 10x1 cyl.	0163 405 13 X 005	0163 406 13 X 006
10–20 (± 1.0)	M 10x1 taper	0163 409 01 X 033	0163 410 01 X 037
	M 12x1.5	0163 409 02 X 034	0163 410 02 X 038
	G 1/4	0163 409 03 X 035	0163 410 03 X 039
	NPT 1/8	0163 409 04 X 036	0163 410 04 X 040
	G 1/8	0163 409 28 X 609	0163 410 28 X 610
	M 10x1 cyl.	0163 409 13 X 009	0163 410 13 X 010
20–50 (± 2.0)	M 10x1 taper	0163 413 01 X 049	0163 414 01 X 053
	M 12x1.5	0163 413 02 X 050	0163 414 02 X 054
	G 1/4	0163 413 03 X 051	0163 414 03 X 055
	NPT 1/8	0163 413 04 X 052	0163 414 04 X 056
	G 1/8	0163 413 28 X 613	0163 414 28 X 614
	M 10x1 cyl.	0163 413 13 X 013	0163 414 13 X 014

**Order number:**  
 Add figure for diaphragm/seal material

0163 XXX XX X XXX 0163 XXX XX X XXX

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

See page 10 for temperature ranges of diaphragm / seal 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>1)</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.