

# 0180 / 0181

## Diaphragm / piston pressure switches up to 250 V

- Zinc-plated steel (CrVI-free)
- Changeover with silver contacts
- Overpressure safety up to 100 / 400 / 700 bar<sup>1)</sup>
- Hysteresis adjustable at factory

$p_{max}$ in bar	Adjustment range in bar	Tolerance at room temperature in bar	Male thread	Article number
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### 0180 Diaphragm pressure switches with spade terminal

100 <sup>1)</sup>	0.3 - 1.5	± 0.2	G1/4	0180 - 457 03 - X - 003	
			M10x1 con.	0180 - 457 01 - X - 001	
			M12x1.5 cyl.	0180 - 457 02 - X - 002	
			NPT1/8	0180 - 457 04 - X - 318	
			NPT1/4	0180 - 457 09 - X - 314	
			7/16-20 UNF	0180 - 457 20 - X - 301	
			9/16-18 UNF	0180 - 457 21 - X - 302	
400 <sup>1)</sup>	1 - 10	± 0.5	G1/4	0180 - 458 03 - X - 042	
			M10x1 con.	0180 - 458 01 - X - 040	
			M12x1.5 cyl.	0180 - 458 02 - X - 041	
			NPT1/8	0180 - 458 04 - X - 343	
			NPT1/4	0180 - 458 09 - X - 340	
			7/16-20 UNF	0180 - 458 20 - X - 341	
				9/16-18 UNF	0180 - 458 21 - X - 342
	10 - 50	± 3.0	G1/4	0180 - 459 03 - X - 009	
			M10x1 con.	0180 - 459 01 - X - 007	
			M12x1.5 cyl.	0180 - 459 02 - X - 008	
			NPT1/8	0180 - 459 04 - X - 320	
			NPT1/4	0180 - 459 09 - X - 311	
7/16-20 UNF			0180 - 459 20 - X - 305		
			9/16-18 UNF	0180 - 459 21 - X - 306	
10 - 100	± 3.0 - 5.0	G1/4	0180 - 461 03 - X - 012		
		M10x1 con.	0180 - 461 01 - X - 010		
		M12x1.5 cyl.	0180 - 461 02 - X - 011		
		NPT1/8	0180 - 461 04 - X - 321		
		NPT1/4	0180 - 461 09 - X - 312		
		7/16-20 UNF	0180 - 461 20 - X - 307		
			9/16-18 UNF	0180 - 461 21 - X - 308	

### 0181 Piston pressure switches with spade terminal

700 <sup>1)</sup>	50 - 200	± 5.0	G1/4	0181 - 460 03 - X - 003
			M10x1 con.	0181 - 460 01 - X - 001
			M12x1.5 cyl.	0181 - 460 02 - X - 002
			NPT1/8	0181 - 460 04 - X - 304
			NPT1/4	0181 - 460 09 - X - 303
			7/16-20 UNF	0181 - 460 20 - X - 301
			9/16-18 UNF	0181 - 460 21 - X - 302

### Seal material – Application areas

NBR	Hydraulic/machine oil, heating oil, air, nitrogen, etc.	1
EPDM	Brake fluid, hydrogen, oxygen, acetylene, etc.	2
FKM	Hydraulic fluids (HFA, HFB, HFD), petrol/gasoline, etc.	3
FFKM	Chemical acids, diluted alkalis, ketones, ester's, alcohols	6
HNBR <sup>2)</sup>	Hydraulic/machine oil, ester-based bio-oils	9

Refer to page 53 for the temperature range and application thresholds of sealing materials.

Article number: **018X - XXX XX - X - XXX**

<sup>1)</sup> Static value. Dynamic value is 30-50 % lower. Values pertain to the hydraulic/pneumatic part of the pressure switch.

<sup>2)</sup> HNBR diaphragm not available for pressure ranges between 0.3 - 1.5 bar.

M.4  
hex 27

