

0196 / 0197

Diaphragm / piston pressure switches up to 24 V with stainless steel housing

- Stainless steel housing (1.4305 / AISI 303)
- Fitted with changeover contact and gold contacts
- Overpressure safety up to 100 / 400 / 600 / 700 bar¹⁾
EPDM-TW and silicone diaphragm up to max. 35 bar²⁾
- 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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0196 Diaphragm pressure switches with spade terminal

100 ¹⁾	0.3 - 1.5	± 0.2	G 1/4 DIN 3852-2-A	0196 - 446 60 - X - 001
	1 - 10	± 0.5		0196 - 458 60 - X - 050

400 ¹⁾	0.5 - 5	± 0.3	G 1/4	0196 - 457 03 - X - 003
	1 - 10	± 0.5		0196 - 458 03 - X - 006
	10 - 50	± 3.0		0196 - 459 03 - X - 009
	10 - 100	± 3.0 - 5.0		0196 - 461 03 - X - 012

0197 Piston pressure switches with spade terminal

700 ¹⁾	50 - 200	± 5.0	G 1/4	0197 - 460 03 - X - 003
600 ^{1) 3)}			NPT 1/8	0197 - 460 04 - X - 304

Seal material – Application areas

NBR	Hydraulic/machine oil, air, nitrogen, etc.	1
EPDM	Water, Brake fluid, hydrogen, oxygen, acetylene, etc.	2
EPDM-TW ²⁾	Drinking water (p _{max} ≤ 35 bar)	5
FKM	Hydraulic fluids (HFA, HFB, HFD), petrol/gasoline, etc.	3
FFKM	Hot water, chemical acids, diluted alkalis, ketones, ester's, alcohols	6
Silicone ²⁾	Water, food products, air, etc. (p _{max} ≤ 35 bar)	8
HNBR	Hydraulic/machine oil, ester-based bio-oils	9

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

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hex 27



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

²⁾ Functional safety and reliability only up to max. 35 bar with EPDM-TW and silicone diaphragm.

³⁾ Including the thread sizes G 1/8, R 1/8 and M 10x1 cylindrical/conical.

