

- Zinc-plated steel (CrVI-free), with spade terminal
- Changeover with gold contacts
- Overpressure safety up to 100 / 400 / 700 bar¹⁾
- 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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0190 Diaphragm pressure switches with spade terminal

100 ¹⁾	0.3 - 1.5	± 0.2	G 1/4	0190 - 457 03 - X - 003
			M 10x1 con.	0190 - 457 01 - X - 001
			M 12x1.5 cyl.	0190 - 457 02 - X - 002
			NPT 1/8	0190 - 457 04 - X - 318
			NPT 1/4	0190 - 457 09 - X - 314
			7/16-20 UNF	0190 - 457 20 - X - 301
			9/16-18 UNF	0190 - 457 21 - X - 302
400 ¹⁾	1 - 10	± 0.5	G 1/4	0190 - 458 03 - X - 042
			M 10x1 con.	0190 - 458 01 - X - 040
			M 12x1.5 cyl.	0190 - 458 02 - X - 041
			NPT 1/8	0190 - 458 04 - X - 343
			NPT 1/4	0190 - 458 09 - X - 340
			7/16-20 UNF	0190 - 458 20 - X - 341
			9/16-18 UNF	0190 - 458 21 - X - 342
	10 - 50	± 3.0	G 1/4	0190 - 459 03 - X - 009
			M 10x1 con.	0190 - 459 01 - X - 007
			M 12x1.5 cyl.	0190 - 459 02 - X - 008
			NPT 1/8	0190 - 459 04 - X - 320
			NPT 1/4	0190 - 459 09 - X - 316
			7/16-20 UNF	0190 - 459 20 - X - 305
9/16-18 UNF			0190 - 459 21 - X - 306	
10 - 100	± 3.0 - 5.0	G 1/4	0190 - 461 03 - X - 012	
		M 10x1 con.	0190 - 461 01 - X - 010	
		M 12x1.5 cyl.	0190 - 461 02 - X - 011	
		NPT 1/8	0190 - 461 04 - X - 321	
		NPT 1/4	0190 - 461 09 - X - 317	
		7/16-20 UNF	0190 - 461 20 - X - 307	
		9/16-18 UNF	0190 - 461 21 - X - 308	

0191 Piston pressure switches with spade terminal

700 ²⁾	50 - 200	± 5.0	G 1/4	0191 - 460 03 - X - 003
			M 10x1 con.	0191 - 460 01 - X - 001
			M 12x1.5 cyl.	0191 - 460 02 - X - 002
			NPT 1/4	0191 - 460 09 - X - 303
			7/16-20 UNF	0191 - 460 20 - X - 301
			9/16-18 UNF	0191 - 460 21 - X - 302

Seal material – Application areas

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

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



Article number:

019X - XXX XX - X - XXX

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

²⁾ Excluding the thread sizes G 1/8, R 1/8, NPT 1/8 and M 10x1 cylindrical/conical.

³⁾ HNBR diaphragm not available for pressure ranges between 0.3 - 1.5 bar.