

0190/0191

Diaphragm / piston pressure switches 24 V with gold contacts



With male thread

(all measurements in mm)



- All pressure switches can be factory preset upon request.
- Ready-wired versions can be found starting on page 38-41.
- We offer other body materials and connecting threads upon request.
- Other diaphragm- / seal materials are available on request, e.g. HNBR or silicone for diaphragm pressure switches.

■ For further technical data see page 26/27.



Accessories see page 28

- Zinc-plated steel body (CrVI-free), with spade terminals
- With snap action switch
- Max. voltage 24 V
- Overpressure safe up to: 1,450 / 4,350 (100/300 bar) diaphragm type ¹⁾
8,700 psi (600 bar) piston type ¹⁾
- Adjustable differential at factory

0190 Diaphragm pressure switches with spade terminals

P max. in psi (bar)	Adjustment range in psi (bar)	Tolerance in psi (bar) (at room temperature)	Thread	Order number:
1,450psi ¹⁾ (100 bar) ¹⁾	4.35 – 21.75psi (0.3 – 1.5 bar)	± 2.9psi (± 0.2 bar)	M 10x1 taper	0190 457 01 001
			1/4" BSPP	0190 457 03 003
			1/8" NPT	0190 457 04 318
			1/4" NPT	0190 457 09 314
			7/16 – 20 UNF	0190 457 20 301
			9/16 – 18 UNF	0190 457 21 302
4,350psi ¹⁾ (300 bar) ¹⁾	14.5 – 145psi (1 – 10 bar)	± 7.25psi (± 0.5 bar)	M 10x1 taper	0190 458 01 040
			1/4" BSPP	0190 458 03 042
			1/8" NPT	0190 458 04 343
			1/4" NPT	0190 458 09 340
			7/16 – 20 UNF	0190 458 20 341
			9/16 – 18 UNF	0190 458 21 342
4,350psi ¹⁾ (300 bar) ¹⁾	145 – 725psi (10 – 50 bar)	± 43.5psi (± 3 bar)	M 10x1 taper	0190 459 01 007
			1/4" BSPP	0190 459 03 009
			1/8" NPT	0190 459 04 320
			1/4" NPT	0190 459 09 316
			7/16 – 20 UNF	0190 459 20 305
			9/16 – 18 UNF	0190 459 21 306
4,350psi ¹⁾ (300 bar) ¹⁾	145 – 1450psi (10 – 100 bar)	± 43.5 – 72.5psi (± 3 – 5 bar)	M 10x1 taper	0190 461 01 010
			1/4" BSPP	0190 461 03 012
			1/8" NPT	0190 461 04 321
			1/4" NPT	0190 461 09 317
			7/16 – 20 UNF	0190 461 20 307
			9/16 – 18 UNF	0190 461 21 308

0191 Piston pressure switches with spade terminals

P max. in psi (bar)	Adjustment range in psi (bar)	Tolerance in psi (bar) (at room temperature)	Thread	Order number:
8,700psi ¹⁾ (600 bar) ¹⁾	725 – 2,900psi (50 – 200 bar)	± 72.5psi (± 5 bar)	M 10x1 taper	0191 460 01 001
			1/4" BSPP	0191 460 03 003
			1/8" NPT	0191 460 04 304
			1/4" NPT	0191 460 09 303
			7/16 – 20 UNF	0191 460 20 301
			9/16 – 18 UNF	0191 460 21 302

Diaphragm / seal material – areas of application

NBR (BunaN)	Hydraulic / machine oil, heating oil, air, nitrogen etc.	1
EPDM	Brake fluid, ozone, acetylene, hydrogen etc.	2
FKM (Viton®)	Hydraulic fluids (HFA, HFB, HFD), petrol/gasoline etc.	3

Temperature ranges of diaphragm / seal materials see page 26

Order number: 019X-XXX XX-X-XXX

Piston pressure switches are only to a limited extent suitable for use with gases. See explanation on page 9.

¹⁾ Static pressure, dynamic pressures should be 30 to 50% lower. These values refer to the hydraulic or pneumatic part of the pressure switch.