

- Made of zinc-plated steel (CrVI-free)
- M3 screw terminal
- Overpressure safety up to 300 bar¹⁾



Adjustment range tolerance at room temperature	Male thread	Order number NO → :	Order number NC → :
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0166 Diaphragm pressure switches with M3 screw terminal

0.1 – 1 (±0.2) bar	G 1/4	0166 – 401 03 – X – 003	0166 – 402 03 – X – 007
	G 1/8	0166 – 401 28 – X – 601	0166 – 402 28 – X – 602
	M 10x1 cyl.	0166 – 401 13 – X – 001	0166 – 402 13 – X – 002
	M 10x1 con.	0166 – 401 01 – X – 001	0166 – 402 01 – X – 005
	M 12x1.5 cyl.	0166 – 401 02 – X – 002	0166 – 402 02 – X – 006
	NPT 1/8	0166 – 401 04 – X – 004	0166 – 402 04 – X – 008
0.5 – 3 (±0.3) bar	G 1/4	0166 – 421 03 – X – 070	0166 – 422 03 – X – 070
	G 1/8	0166 – 421 28 – X – 070	0166 – 422 28 – X – 070
	M 10x1 cyl.	0166 – 421 13 – X – 070	0166 – 422 13 – X – 070
	M 10x1 con.	0166 – 421 01 – X – 070	0166 – 422 01 – X – 070
	M 12x1.5 cyl.	0166 – 421 02 – X – 070	0166 – 422 02 – X – 070
	NPT 1/8	0166 – 421 04 – X – 070	0166 – 422 04 – X – 070
1 – 10 (±0.5) bar	G 1/4	0166 – 405 03 – X – 019	0166 – 406 03 – X – 023
	G 1/8	0166 – 405 28 – X – 605	0166 – 406 28 – X – 606
	M 10x1 cyl.	0166 – 405 13 – X – 005	0166 – 406 13 – X – 006
	M 10x1 con.	0166 – 405 01 – X – 017	0166 – 406 01 – X – 021
	M 12x1.5 cyl.	0166 – 405 02 – X – 018	0166 – 406 02 – X – 022
	NPT 1/8	0166 – 405 04 – X – 020	0166 – 406 04 – X – 024
10 – 20 (±1) bar	G 1/4	0166 – 409 03 – X – 035	0166 – 410 03 – X – 039
	G 1/8	0166 – 409 28 – X – 609	0166 – 410 28 – X – 610
	M 10x1 cyl.	0166 – 409 13 – X – 009	0166 – 410 13 – X – 010
	M 10x1 con.	0166 – 409 01 – X – 033	0166 – 410 01 – X – 037
	M 12x1.5 cyl.	0166 – 409 02 – X – 034	0166 – 410 02 – X – 038
	NPT 1/8	0166 – 409 04 – X – 036	0166 – 410 04 – X – 040
20 – 50 (±2) bar	G 1/4	0166 – 413 03 – X – 051	0166 – 414 03 – X – 055
	G 1/8	0166 – 413 28 – X – 613	0166 – 414 28 – X – 614
	M 10x1 cyl.	0166 – 413 13 – X – 013	0166 – 414 13 – X – 014
	M 10x1 con.	0166 – 413 01 – X – 049	0166 – 414 01 – X – 053
	M 12x1.5 cyl.	0166 – 413 02 – X – 050	0166 – 414 02 – X – 054
	NPT 1/8	0166 – 413 04 – X – 052	0166 – 414 04 – X – 056

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
HNBR	Hydraulic/machine oil, ester-based bio-oils	9

Refer to page 41 for the temperature range and application thresholds of sealing materials.



Your order number: 0166 – XXX XX – X – XXX



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

- Made of zinc-plated steel (CrVI-free)
- Spade terminal
- Overpressure safety up to 300 bar¹⁾

Adjustment range tolerance at room temperature	Male thread	Order number NO → :	Order number NC → :
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0166 Diaphragm pressure switches with spade terminal

0.1 – 1 (±0.2) bar	G 1/4	0166 – 403 03 – X – 011	0166 – 404 03 – X – 015
	G 1/8	0166 – 403 28 – X – 603	0166 – 404 28 – X – 604
	M 10x1 cyl.	0166 – 403 13 – X – 003	0166 – 404 13 – X – 004
	M 10x1 con.	0166 – 403 01 – X – 009	0166 – 404 01 – X – 013
	M 12x1.5 cyl.	0166 – 403 02 – X – 010	0166 – 404 02 – X – 014
	NPT 1/8	0166 – 403 04 – X – 012	0166 – 404 04 – X – 016
0.5 – 3 (±0.3) bar	G 1/4	0166 – 423 03 – X – 070	0166 – 424 03 – X – 070
	G 1/8	0166 – 423 28 – X – 070	0166 – 424 28 – X – 070
	M 10x1 cyl.	0166 – 423 13 – X – 070	0166 – 424 13 – X – 070
	M 10x1 con.	0166 – 423 01 – X – 070	0166 – 424 01 – X – 070
	M 12x1.5 cyl.	0166 – 423 02 – X – 070	0166 – 424 02 – X – 070
	NPT 1/8	0166 – 423 04 – X – 070	0166 – 424 04 – X – 070
1 – 10 (±0.5) bar	G 1/4	0166 – 407 03 – X – 027	0166 – 408 03 – X – 031
	G 1/8	0166 – 407 28 – X – 607	0166 – 408 28 – X – 608
	M 10x1 cyl.	0166 – 407 13 – X – 007	0166 – 408 13 – X – 008
	M 10x1 con.	0166 – 407 01 – X – 025	0166 – 408 01 – X – 029
	M 12x1.5 cyl.	0166 – 407 02 – X – 026	0166 – 408 02 – X – 030
	NPT 1/8	0166 – 407 04 – X – 028	0166 – 408 04 – X – 032
10 – 20 (±1) bar	G 1/4	0166 – 411 03 – X – 043	0166 – 412 03 – X – 047
	G 1/8	0166 – 411 28 – X – 611	0166 – 412 28 – X – 612
	M 10x1 cyl.	0166 – 411 13 – X – 011	0166 – 412 13 – X – 012
	M 10x1 con.	0166 – 411 01 – X – 041	0166 – 412 01 – X – 045
	M 12x1.5 cyl.	0166 – 411 02 – X – 042	0166 – 412 02 – X – 046
	NPT 1/8	0166 – 411 04 – X – 044	0166 – 412 04 – X – 048
20 – 50 (±2) bar	G 1/4	0166 – 415 03 – X – 059	0166 – 416 03 – X – 063
	G 1/8	0166 – 415 28 – X – 615	0166 – 416 28 – X – 616
	M 10x1 cyl.	0166 – 415 13 – X – 015	0166 – 416 13 – X – 016
	M 10x1 con.	0166 – 415 01 – X – 057	0166 – 416 01 – X – 061
	M 12x1.5 cyl.	0166 – 415 02 – X – 058	0166 – 416 02 – X – 062
	NPT 1/8	0166 – 415 04 – X – 060	0166 – 416 04 – X – 064

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
HNBR	Hydraulic/machine oil, ester-based bio-oils	9

Refer to page 41 for the temperature range and application thresholds of sealing materials.

Your order number:

0166 – XXX XX – X – XXX



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