0163

Diaphragm pressure switches up to 42 V with spade terminal

- Made of zinc-plated steel (CrVI-free)
- Spade terminal
- Overpressure safety up to 600 bar[1)]



Adjustment range (Tolerance at room temperature)	Male thread	Order number NO —› |:	Order number NC —› :|

0163 Diaphragm pressure switches with spade terminal

0.1 - 1 (± 0.2) bar	G1/4	0163 - 403 03 - X - 011	0163 - 404 03 - X - 015
	G1/8	0163 - 403 28 - X - 603	0163 - 404 28 - X - 604
	M10x1 cyl.	0163 - 403 13 - X - 003	0163 - 404 13 - X - 004
	M10x1 con.	0163 - 403 01 - X - 009	0163 - 404 01 - X - 013
	M12x1.5 cyl.	0163 - 403 02 - X - 010	0163 - 404 02 - X - 014
	NPT1/8	0163 - 403 04 - X - 012	0163 - 404 04 - X - 016
0.5 - 3 (± 0.3) bar	G1/4	0163 - 423 03 - X - 070	0163 - 424 03 - X - 070
	G1/8	0163 - 423 28 - X - 070	0163 - 424 28 - X - 070
	M10x1 cyl.	0163 - 423 13 - X - 070	0163 - 424 13 - X - 070
	M10x1 con.	0163 - 423 01 - X - 070	0163 - 424 01 - X - 070
	M12x1.5 cyl.	0163 - 423 02 - X - 070	0163 - 424 02 - X - 070
	NPT1/8	0163 - 423 04 - X - 070	0163 - 424 04 - X - 070
1 - 10 (± 0.5) bar	G1/4	0163 - 407 03 - X - 027	0163 - 408 03 - X - 031
	G1/8	0163 - 407 28 - X - 607	0163 - 408 28 - X - 608
	M10x1 cyl.	0163 - 407 13 - X - 007	0163 - 408 13 - X - 008
	M10x1 con.	0163 - 407 01 - X - 025	0163 - 408 01 - X - 029
	M12x1.5 cyl.	0163 - 407 02 - X - 026	0163 - 408 02 - X - 030
	NPT1/8	0163 - 407 04 - X - 028	0163 - 408 04 - X - 032
10 - 20 (± 1.0) bar	G1/4	0163 - 411 03 - X - 043	0163 - 412 03 - X - 047
	G1/8	0163 - 411 28 - X - 611	0163 - 412 28 - X - 612
	M10x1 cyl.	0163 - 411 13 - X - 011	0163 - 412 13 - X - 012
	M10x1 con.	0163 - 411 01 - X - 041	0163 - 412 01 - X - 045
	M12x1.5 cyl.	0163 - 411 02 - X - 042	0163 - 412 02 - X - 046
	NPT1/8	0163 - 411 04 - X - 044	0163 - 412 04 - X - 048
20 - 50 (± 2.0) bar	G1/4	0163 - 415 03 - X - 059	0163 - 416 03 - X - 063
	G1/8	0163 - 415 28 - X - 615	0163 - 416 28 - X - 616
	M10x1 cyl.	0163 - 415 13 - X - 015	0163 - 416 13 - X - 016
	M10x1 con.	0163 - 415 01 - X - 057	0163 - 416 01 - X - 061
	M12x1.5 cyl.	0163 - 415 02 - X - 058	0163 - 416 02 - X - 062
	NPT1/8	0163 - 415 04 - X - 060	0163 - 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
FFKM	Chemical acids, diluted alkalis, ketones, ester's, alcohols	6
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:	0163 – XXX XX – X – XXX

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

0163

Diaphragm pressure switches up to 42 V with M3 screw terminal

- Made of zinc-plated steel (CrVI-free)
- M3 screw terminal
- Overpressure safety up to 600 bar[1)]

Adjustment range (Tolerance at room temperature)	Male thread	**Order number** NO —› |:	**Order number** NC —› :|

0163 Diaphragm pressure switches with M3 screw terminal

0.1 - 1 (± 0.2) bar	G1/4	0163 - 401 03 - X - 003	0163 - 402 03 - X - 007
	G1/8	0163 - 401 28 - X - 601	0163 - 402 28 - X - 602
	M10x1 cyl.	0163 - 401 13 - X - 001	0163 - 402 13 - X - 002
	M10x1 con.	0163 - 401 01 - X - 001	0163 - 402 01 - X - 005
	M12x1.5 cyl.	0163 - 401 02 - X - 002	0163 - 402 02 - X - 006
	NPT1/8	0163 - 401 04 - X - 004	0163 - 402 04 - X - 008
0.5 - 3 (± 0.3) bar	G1/4	0163 - 421 03 - X - 070	0163 - 422 03 - X - 070
	G1/8	0163 - 421 28 - X - 070	0163 - 422 28 - X - 070
	M10x1 cyl.	0163 - 421 13 - X - 070	0163 - 422 13 - X - 070
	M10x1 con.	0163 - 421 01 - X - 070	0163 - 422 01 - X - 070
	M12x1.5 cyl.	0163 - 421 02 - X - 070	0163 - 422 02 - X - 070
	NPT1/8	0163 - 421 04 - X - 070	0163 - 422 04 - X - 070
1 - 10 (± 0.5) bar	G1/4	0163 - 405 03 - X - 019	0163 - 406 03 - X - 023
	G1/8	0163 - 405 28 - X - 605	0163 - 406 28 - X - 606
	M10x1 cyl.	0163 - 405 13 - X - 005	0163 - 406 13 - X - 006
	M10x1 con.	0163 - 405 01 - X - 017	0163 - 406 01 - X - 021
	M12x1.5 cyl.	0163 - 405 02 - X - 018	0163 - 406 02 - X - 022
	NPT1/8	0163 - 405 04 - X - 020	0163 - 406 04 - X - 024
10 - 20 (± 1.0) bar	G1/4	0163 - 409 03 - X - 035	0163 - 410 03 - X - 039
	G1/8	0163 - 409 28 - X - 609	0163 - 410 28 - X - 610
	M10x1 cyl.	0163 - 409 13 - X - 009	0163 - 410 13 - X - 010
	M10x1 con.	0163 - 409 01 - X - 033	0163 - 410 01 - X - 037
	M12x1.5 cyl.	0163 - 409 02 - X - 034	0163 - 410 02 - X - 038
	NPT1/8	0163 - 409 04 - X - 036	0163 - 410 04 - X - 040
20 - 50 (± 2.0) bar	G1/4	0163 - 413 03 - X - 051	0163 - 414 03 - X - 055
	G1/8	0163 - 413 28 - X - 613	0163 - 414 28 - X - 614
	M10x1 cyl.	0163 - 413 13 - X - 013	0163 - 414 13 - X - 014
	M10x1 con.	0163 - 413 01 - X - 049	0163 - 414 01 - X - 053
	M12x1.5 cyl.	0163 - 413 02 - X - 050	0163 - 414 02 - X - 054
	NPT1/8	0163 - 413 04 - X - 052	0163 - 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
FFKM	Chemical acids, diluted alkalis, ketones, ester's, alcohols	6
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:	**0163 – XXX XX – X – XXX**



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