

0163

Diaphragm pressure switches max 42 V

Zinc-plated steel body
With spade terminals
Overpressure safe to **8700 psi**¹⁾

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RoHS COMPLIANT

0163 Diaphragm pressure switches with spade terminals

Adjustment range in psi (tolerance at room temperature)	Thread	SPST-NO (normally open) → :				SPST-NC (normally closed) → >			
1.45 – 14.5 (± 2.90)	M 10x1 taper	0163	403	01	009	0163	404	01	013
	1/4" BSPP	0163	403	03	011	0163	404	03	015
	1/8" NPT	0163	403	04	012	0163	404	04	016
	1/4" NPT	0163	403	09	345	0163	404	09	346
	7/16 – 20 UNF	0163	403	20	305	0163	404	20	307
	9/16 – 18 UNF	0163	403	21	306	0163	404	21	308
14.5 – 145 (± 7.25)	M 10x1 taper	0163	407	01	025	0163	408	01	029
	1/4" BSPP	0163	407	03	027	0163	408	03	031
	1/8" NPT	0163	407	04	028	0163	408	04	032
	1/4" NPT	0163	407	09	349	0163	408	09	350
	7/16 – 20 UNF	0163	407	20	313	0163	408	20	315
	9/16 – 18 UNF	0163	407	21	314	0163	408	21	316
145 – 290 (± 14.50)	M 10x1 taper	0163	411	01	041	0163	412	01	045
	1/4" BSPP	0163	411	03	043	0163	412	03	047
	1/8" NPT	0163	411	04	044	0163	412	04	048
	1/4" NPT	0163	411	09	353	0163	412	09	354
	7/16 – 20 UNF	0163	411	20	321	0163	412	20	323
	9/16 – 18 UNF	0163	411	21	322	0163	412	21	324
290 – 725 (± 29.0)	M 10x1 taper	0163	415	01	057	0163	416	01	061
	1/4" BSPP	0163	415	03	059	0163	416	03	063
	1/8" NPT	0163	415	04	060	0163	416	04	064
	1/4" NPT	0163	415	09	357	0163	416	09	358
	7/16 – 20 UNF	0163	415	20	329	0163	416	20	331
	9/16 – 18 UNF	0163	415	21	330	0163	416	21	332

Order number:
Add figure for diaphragm/seal material

0163 XXX XX **X** XXX 0163 XXX XX **X** XXX

NBR (BunaN)	Hydraulic / machine oil, turpentine, heating oil, air etc.	=	1	=	1
EPDM	Hydrogen, acetylene, ozone, brake fluid etc.	=	2	=	2
FKM	Hydraulic fluids (HFA, HFB, HFC, HFD), petrol/gasoline etc.	=	3	=	3

See page 10 for temperature ranges of diaphragm / seal materials

Warning!

When using with oxygen, the relevant accident-prevention regulations must be observed. In addition, we recommend that a maximum operating pressure of 145 psi is not exceeded.

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

Degree of protection IP65

The type approval does not apply without restriction to all environmental conditions. It is the responsibility of the user to check whether the connection complies with regulations other than those stated, and whether it can be used for special applications which could not be foreseen by us in advance.

With male thread



- Also available with switching point preset in our factory.
- For ready-wired variants, see page 34 onwards.
- Other body materials and connection threads on request.
- Other diaphragm / seal materials on request, e.g. HNBR, silicone (last one for diaphragm type only).

• Accessories: see page 19



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With male thread



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- Other diaphragm / seal materials on request, e.g. HNBR, silicone (last one for diaphragm type only).

• Accessories: see page 19



0163 Diaphragm pressure switches with screw terminals

Adjustment range in psi (tolerance at room temperature)	Thread	SPST-NO (normally open) —> :				SPST-NC (normally closed) —> :			
1.45 – 14.5 (± 2.90)	M 10x1 taper	0163	401	01	001	0163	402	01	005
	1/4" BSPP	0163	401	03	003	0163	402	03	007
	1/8" NPT	0163	401	04	004	0163	402	04	008
	1/4" NPT	0163	401	09	343	0163	402	09	344
	7/16 – 20 UNF	0163	401	20	301	0163	402	20	303
	9/16 – 18 UNF	0163	401	21	302	0163	402	21	304
14.5 – 145 (± 7.25)	M 10x1 taper	0163	405	01	017	0163	406	01	021
	1/4" BSPP	0163	405	03	019	0163	406	03	023
	1/8" NPT	0163	405	04	020	0163	406	04	024
	1/4" NPT	0163	405	09	347	0163	406	09	348
	7/16 – 20 UNF	0163	405	20	309	0163	406	20	311
145 – 290 (± 14.50)	9/16 – 18 UNF	0163	405	21	310	0163	406	21	312
	M 10x1 taper	0163	409	01	033	0163	410	01	037
	1/4" BSPP	0163	409	03	035	0163	410	03	039
	1/8" NPT	0163	409	04	036	0163	410	04	040
	1/4" NPT	0163	409	09	351	0163	410	09	352
290 – 725 (± 29.0)	7/16 – 20 UNF	0163	409	20	317	0163	410	20	319
	9/16 – 18 UNF	0163	409	21	318	0163	410	21	320
	M 10x1 taper	0163	413	01	049	0163	414	01	053
	1/4" BSPP	0163	413	03	051	0163	414	03	055
	1/8" NPT	0163	413	04	052	0163	414	04	056
	1/4" NPT	0163	413	09	355	0163	414	09	356
	7/16 – 20 UNF	0163	413	20	325	0163	414	20	327
	9/16 – 18 UNF	0163	413	21	326	0163	414	21	328

Order number:
Add figure for **0163** XXX XX **X** XXX **0163** XXX XX **X** XXX
● diaphragm/seal material

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