

0166

Diaphragm pressure switches max 42 V

Zinc-plated steel body
With spade terminals
Overpressure safe to **4350 psi**¹⁾

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RoHS COMPLIANT

0166 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	0166	403	01	009	0166	404	01	013
	1/4" BSPP	0166	403	03	011	0166	404	03	015
	1/8" NPT	0166	403	04	012	0166	404	04	016
	1/4" NPT	0166	403	09	345	0166	404	09	346
	7/16 – 20 UNF	0166	403	20	305	0166	404	20	307
	9/16 – 18 UNF	0166	403	21	306	0166	404	21	308
14.5 – 145 (± 7.25)	M 10x1 taper	0166	407	01	025	0166	408	01	029
	1/4" BSPP	0166	407	03	027	0166	408	03	031
	1/8" NPT	0166	407	04	028	0166	408	04	032
	1/4" NPT	0166	407	09	349	0166	408	09	350
	7/16 – 20 UNF	0166	407	20	313	0166	408	20	315
	9/16 – 18 UNF	0166	407	21	314	0166	408	21	316
145 – 290 (± 14.50)	M 10x1 taper	0166	411	01	041	0166	412	01	045
	1/4" BSPP	0166	411	03	043	0166	412	03	047
	1/8" NPT	0166	411	04	044	0166	412	04	048
	1/4" NPT	0166	411	09	353	0166	412	09	354
	7/16 – 20 UNF	0166	411	20	321	0166	412	20	323
	9/16 – 18 UNF	0166	411	21	322	0166	412	21	324
290 – 725 (± 29.0)	M 10x1 taper	0166	415	01	057	0166	416	01	061
	1/4" BSPP	0166	415	03	059	0166	416	03	063
	1/8" NPT	0166	415	04	060	0166	416	04	064
	1/4" NPT	0166	415	09	357	0166	416	09	358
	7/16 – 20 UNF	0166	415	20	329	0166	416	20	331
	9/16 – 18 UNF	0166	415	21	330	0166	416	21	332

Order number:
Add figure for diaphragm/seal material

0166 XXX XX **X** XXX 0166 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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- 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



0166 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	0166	401	01	001	0166	402	01	005
	1/4" BSPP	0166	401	03	003	0166	402	03	007
	1/8" NPT	0166	401	04	004	0166	402	04	008
	1/4" NPT	0166	401	09	343	0166	402	09	344
	7/16 – 20 UNF	0166	401	20	301	0166	402	20	303
	9/16 – 18 UNF	0166	401	21	302	0166	402	21	304
14.5 – 145 (± 7.25)	M 10x1 taper	0166	405	01	017	0166	406	01	021
	1/4" BSPP	0166	405	03	019	0166	406	03	023
	1/8" NPT	0166	405	04	020	0166	406	04	024
	1/4" NPT	0166	405	09	347	0166	406	09	348
	7/16 – 20 UNF	0166	405	20	309	0166	406	20	311
145 – 290 (± 14.50)	9/16 – 18 UNF	0166	405	21	310	0166	406	21	312
	M 10x1 taper	0166	409	01	033	0166	410	01	037
	1/4" BSPP	0166	409	03	035	0166	410	03	039
	1/8" NPT	0166	409	04	036	0166	410	04	040
	1/4" NPT	0166	409	09	351	0166	410	09	352
290 – 725 (± 29.0)	7/16 – 20 UNF	0166	409	20	317	0166	410	20	319
	9/16 – 18 UNF	0166	409	21	318	0166	410	21	320
	M 10x1 taper	0166	413	01	049	0166	414	01	053
	1/4" BSPP	0166	413	03	051	0166	414	03	055
	1/8" NPT	0166	413	04	052	0166	414	04	056
	1/4" NPT	0166	413	09	355	0166	414	09	356
	7/16 – 20 UNF	0166	413	20	325	0166	414	20	327
	9/16 – 18 UNF	0166	413	21	326	0166	414	21	328

Order number:
Add figure for diaphragm/seal material

0166 XXX XX **X** XXX 0166 XXX XX **X** XXX

Material	Fluids	Figure 1	Figure 2	Figure 3
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

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