0170 / 0171

Diaphragm/piston pressure switches 42 V

Zinc-plated steel body, with push-on terminals With changeover switch and silver contacts Overpressure safe to 100/300/600 bar*)



0170 Diaphragm pressure switches

Adjustment range in bar	Tolerance in bar (RT)	Thread	Order number	p _{max.} in bar
		M10x1taper	0170 457 01 001	
0.3 - 1.5	± 0.2	M 12x1.5	0170 457 02 002	
		G 1/4"	0170 457 03 003	100*)
		M10x1taper	0170 458 01 004	
1 - 10	± 0.5	M 12x1.5	0170 458 02 005	
		G 1/4"	0170 458 03 006	
1 - 10	± 0.5 - 1.0	M10x1taper	0170 458 01 040	
		M 12x1.5	0170 458 02 041	
		G 1/4"	0170 458 03 042	
10 - 50	± 3.0	M10x1taper	0170 459 01 007	
		M 12x1.5	0170 459 02 008	300*)
		G 1/4"	0170 459 03 009	
10 - 100	± 3.0 - 5.0	M10x1taper	0170 461 01 010	
		M 12x1.5	0170 461 02 011	
		G 1/4"	0170 461 03 012	

0171 Piston pressure switches

Adjustment range in bar	Tolerance in bar (RT)	Thread	Order number	p _{max.} in bar
50 - 200	± 5.0	M10x1taper	0171 460 01 001	
		M12x1.5	0171 460 02 002	600*)
		G 1/4"	0171 460 03 003	

017X XXX XX XX XXX

Order number

Add figure fo	or diaphragm/seai materiai		4
NBR	Hydraulic / machine oil, turpentine, heating oil, air etc.	=	1
EPDM	Hydrogen, acetylene, ozone, brake fluid etc.	=	2
FKM	Hydraulic fluids (HFA, HFB, HFC, HFD), petrol/gasoline etc.	=	3
	See page 21 for temperature ranges of diaphragm mater	ials	

Warning!

When using with oxygen, the relevant accident-prevention regulations must be observed. In addition, we recommend that a maximum operating pressure of 10 bar is not exceeded.

Piston-type pressure switches are only to a limited extent suitable for use with gases and oxygen. See explanation on page 5.

*) 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.

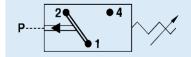


With external thread

- Also available with switching point preset in our works.
- For ready-wired variants, see page 30 onwards.
- Other body materials and connection threads on request.



Accessories: see page 29



• For further technical data, see page 21.



www.suco.de

Pressure Switches 27 A/F

Changeover contacts
With silver or gold contacts



- High-quality micro-switch for reliable switching
- Switching point easy to adjust ¹⁾
- Hysteresis can be set in our works 2)
- Self-cleaning contacts for a long working life (only 250 V versions)
- High overpressure safety
- Long working life under harsh operating conditions
- Connection plug or protective cap to protect against moisture and dirt, and thus easy replacement on site by service personnel
- Various thread connections available to suit your installation
- Ready-wired variants see pages 30-33
- A choice of zinc-plated steel or stainless steel as body material and a selection of diaphragm materials ensure high resistance to media



¹⁾ Switches we have preset are secured with sealing paint and have the switching pressure stamped on their body.

²⁾ Except for Series 0140/0141

TECHNICAL DATA



	,	Voltage		Max. current				Body material				
	24 V	42 V	250 V	50 mA	2 A	4 A	Gold contacts	Silver contacts	Adjustable hysteresis	Zinc-plated steel	Stainless steel 1.4305	DIN valve connector
0140*)			•		•			•		•		
0141*)			•		•			•		•		
0170		•				•		•	•	•		
0171		•				•		•	•	•		
0180*)			•			•		•	•	•		
0181*)			•			•		•	•	•		
0184*)			•			•		•	•	•		•
0185*)			•			•		•	•	•		•
0186*)			•			•		•	•		•	
0187*)			•			•		•	•		•	
0190	•			•			•		•	•		
0191	•			•			•		•	•		
0196	•			•			•		•		•	
0197	•			•			•		•		•	

^{*)} For further details of switching performance, see page 7

TECHNICAL DATA

CE MarkingDirectives of the
European Council

Machinery Directive, EMC Directive Low Voltage Directive ATEX Directive

Equipment that falls under these directives must have a declaration of conformity and carry the CE marking.

SUCO pressure switches are electrical equipment and therefore fall under the Low Voltage Directive 73/23/EC.

A EC Declaration of Conformity has been prepared for all products that fall under these directives and is kept on our premises. The catalogue pages for the relevant switches carry the CE marking.



Accessories

For 27 A/F pressure switches



Protective cap

With two cable entries for 1.7 - 2.3 mm cable diameter Not suitable for voltages above 42 V!

Order No.: 1-1-70-621-007



Connection plug

Cable gland Pg9 (clamping range 6 - 9 mm)

Order No.: 1-1-80-652-002



Application matrix for accessories

Pressure-switch range	Protective cap 1-1-70-621-007	Connector plug 1-1-80-652-002	Connector plug with indicator light to DIN 43650
0140 / 0141			
0170 / 0171	•	•	
0180 / 0181	(up to max. 42V)	•	
0184 / 0185			(for 24V and 250V on request) see also page 25
0190 / 0191	•	•	
0186 / 0187	(up to max. 42V)	•	
0196 / 0197	•	•	