Pressure Switches 30 A/F

Changeover switch

CE Marking

Directives of the European Council

Machinery Directive
EMC Directive
Low Voltage 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.

An 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.

CE

TECHNICAL DATA

Degree of protection:	IP65 valve connector fitted	
Switching frequency:	200 / min.	
Temperature stability for diaphragm/seal materials:	NBR	-30 °C – +100 °C
	EPDM	-30 °C – +120 °C
	FKM	-5 °C – +120 °C
Mechanical life expectancy:	10^6 cycles (life expectancy of diaphragm pressure switches only for pressures up to max. 50 bar)	
Pressure rise rate:	≤ 1 bar/ms	
Vibration resistance:	10 g / 5–200 Hz sine-wave	
Shock resistance:	294 m/s²; 14 ms half-sine-wave	
Body material:	AlMgSi1 F28	
Switching performance:	see page 7	
Hysteresis:	Type 0159:	approx. 10–30% (not adjustable)
	Type 0161, 0162, 0175:	approx. 10–30% (adjustable at works)

- Panel or manifold mounting for clear, maintenance-friendly installation
- Easily adjustable by user
- High-quality micro-switch for reliable switching
- High overpressure safety
- Connection plug for simple installation on site

0159

Diaphragm/piston pressure switches 250 V

Aluminium body
With changeover switch and silver contacts
Overpressure safe to 200/600 bar [1)]
Max. voltage 250 V

- See page 7 for electrical properties

- Switching point steplessly adjustable with switch in operating condition by turning knurled screw

0159 Diaphragm pressure switches

Adjustment range in bar	Tolerance in bar (room temperature)	$p_{max.}$ in bar	Thread	Order number				
0.2 – 2	± 0.2 – 0.3	200 [1)]	G 1/4 internal	0159	426	14		001
0.5 – 5	± 0.2 – 0.5			0159	427	14		001
1 – 10	± 0.5			0159	428	14		001
2 – 20	± 1.0			0159	429	14		001
5 – 50	± 3.0			0159	430	14		001
10 – 100	± 3.0 – 5.0			0159	431	14		001

0159 Piston pressure switches

Adjustment range in bar	Tolerance in bar (room temperature)	$p_{max.}$ in bar	Thread	Order number				
10 – 100	± 3.0 – 5.0	600 [1)]	G 1/4 internal	0159	432	14		001
25 – 250	± 5.0 – 7.0			0159	433	14		001
40 – 400	± 5.0 – 9.0			0159	434	14		001

Order number
Add figure for diaphragm/seal material

0159 XXX XX **X** XXX

NBR	Hydraulic / machine oil, turpentine, heating oil, air etc.	=	**1**
EPDM	Brake fluid, ozone, acetylene, hydrogen etc.	=	**2**
FKM	Hydraulic fluids (HFA, HFB, HFC, HFD), petrol/gasoline etc.	=	**3**
	See page 38 for temperature ranges of diaphragm / seal materials		

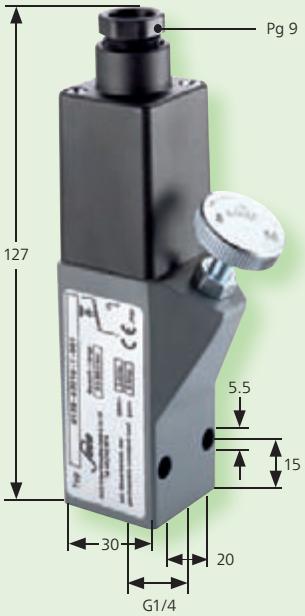
Warning!
When using with oxygen, the relevant accident-prevention regulations must be observed. In addition, we recommend that a maximum operating pressure of 10 bar is not exceeded.

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

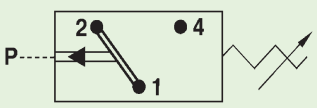
[1)] Static pressure, dynamic pressures should be 30 to 50% lower. These values refer to the hydraulic or pneumatic part of the pressure switch.

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 female thread



- *Also available with switching point preset in our works.*



- *For further technical data see page 38*