

Beck.

The factory-set pressure switches.



Pressure switch 901

with factory-set pressure setting



Application

Factory-set pressure switch monitoring overpressure, vacuum or differential pressure of liquid and gaseous – also aggressive – media

Pressure setting and switching differential are factory-set by the manufacturer.

Temperature range

Ambient temperature from -20°C to $+85^{\circ}\text{C}$
Temperature of media up to 85°C or 130°C depending on material of pressure connection and diaphragm

Diaphragm material

Depending on media NBR, Silicone, FKM (Viton®), EPDM
For 901.30 Silicone, others upon request

Electrical rating

Standard version	max.	6 (1.5) A / 250 VAC
	max.	10 (2) A / 250 VAC
	max.	2 A / 24 VDC
Low-voltage version	max.	100 mA / 24 VAC
	max.	30 mA / 24 VDC

Electrical connection

Tab terminal 6.3 mm x 0.8 mm in accordance with DIN 46244

Life

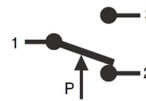
Mechanically more than 10^6 cycles

Mounting position

Mounting in any position, to be specified for settings below 100 mbar

Arrangement of contacts

for 901.1x, 901.30,
901.41, 901.51



only for 901.2x



Damping

Restrictors alternatively with 0.3/0.5/0.8 mm diameter

Protection

IP00 without protection cap
IP44 / IP54 / IP65 depending on the used protection cap

Protection class

Protection class II is only met by using a protection cap from our accessories program.
The pressure switch without protection cap is provided for installation in equipment. The construction of the equipment and the type of installation determine the protection class.

Conformity

EU Low Voltage Directive
EU RoHS Directive

Warning

Read instructions before use. This regulating and control unit must be installed in compliance with the applicable regulations.

Accessories

Various mounting brackets and protection caps with IP 44, IP44, IP54 and IP65

Pressure connection

Type	Tube connection			Threaded connection			
	5.0 mm	6.5 mm	10.0 mm	M10x1	G1/8	G1/4	G1/2
901.1x	PA	PA, PPS	PA, PPS	PA, PVDF CuZn40, AISI 316	PA, PVDF CuZn40, AISI 316	PA, PVDF CuZn40, AISI 316	CuZn40
901.2x	PA	PA, PPS	PA, PPS	PA, PVDF CuZn40, AISI 316	PA, PVDF CuZn40, AISI 316	CuZn40, AISI 316	CuZn40
901.30		PA					
901.41		PA, PPS	PA, PPS	PA, PVDF CuZn40, AISI 316	PA, PVDF CuZn40, AISI 316	CuZn40, AISI 316	CuZn40
901.51				CuZn40, AISI 316	CuZn40, AISI 316	CuZn40, AISI 316	

PA = polyamide, PVDF = polyvinylidene fluoride, PPS = polyphenylsulfide, CuZn40 = brass, AISI 316 = stainless steel

For temperature above 85° C metal or PPS pressure connection is required. Upon request pressure connections of other sizes, other plastics or brass nickel-plated are available.

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Overpressure range

Type	Factory-set trip pressure		Switching differential (Hysteresis)		Tolerance band of trip pressure	Maximum positive working pressure	Maximum negative working pressure
	between	and	lower end of range	upper end of range		standard/extended	standard/extended
901.1x	5 mbar	200 mbar	2.5 mbar	50 mbar	± 10 %	0.5 / 4 bar	- / - 1 bar
	200 mbar	1,000 mbar	50 mbar	150 mbar	± 10 %	1 / 4 bar	- / - 1 bar
901.41	500 mbar	3,000 mbar	200 mbar	600 mbar	± 10 %	10 bar*	- 1 bar
901.51	1.0 bar	12 bar	0.2 bar	1.5 bar	± 10 %	25 bar	- 1 bar

*For pressure connections made of plastic, the maximum permissible working pressure is 7 bar!

Vacuum range

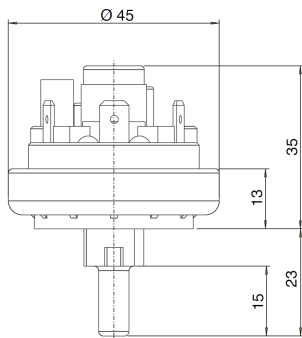
Type	Factory-set trip pressure		Switching differential (Hysteresis)		Tolerance band of trip pressure	Maximum positive working pressure	Maximum negative working pressure
	between	and	lower end of range	upper end of range		standard/extended	standard/extended
901.2x	-5 mbar	-200 mbar	2.5 mbar	50 mbar	± 10 %	0.5 / 4 bar	- 1 bar
	-200 mbar	-900 mbar	50 mbar	150 mbar	± 10 %	1 / 4 bar	- 1 bar

Differential pressure range

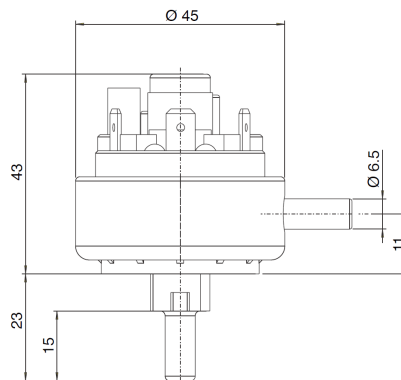
Type	Factory-set trip pressure		Switching differential (Hysteresis)		Tolerance band of trip pressure	Maximum positive working pressure	Maximum negative working pressure
	between	and	lower end of range	upper end of range		standard/extended	
901.30	5 mbar	50 mbar	2.5 mbar	25 mbar	± 10 %	100 mbar	- 100 mbar

Dimensional Drawings

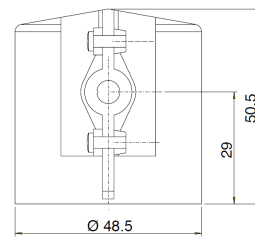
901.10/20



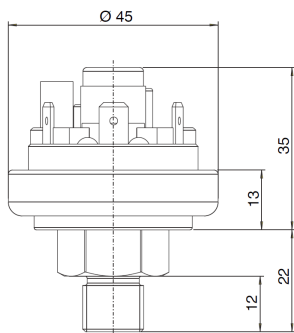
901.30



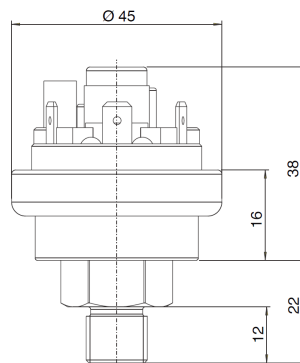
**Protection caps
6329 IP44**



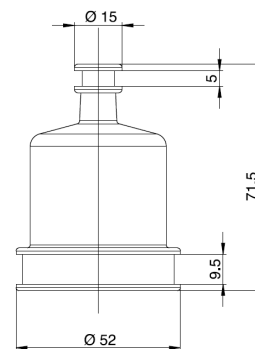
901.11/21/41



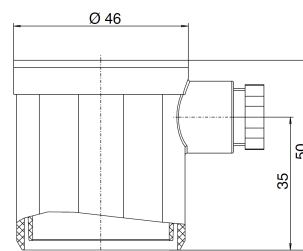
901.51



6345 IP54

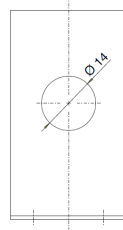


6371 IP54 / 6372 IP65

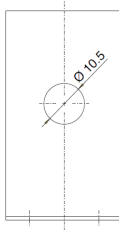


Mounting brackets

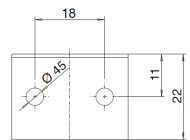
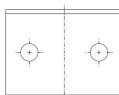
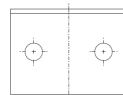
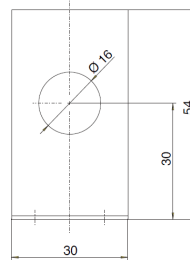
6403



6404



6405



6374 IP54 / 6375 IP65

