

# **Beck.**

## **The adjustable pressure switches Prescal®.**



# Pressure switch 901 Prescal®

## with adjustable setting



### Application

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

The switching pressure can be adjusted without a pressure gauge using a scaled adjustment knob.

### Temperature range

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

### Diaphragm material

Depending on media NBR, Silicone, FKM (Viton®), EPDM. For 901.8x 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

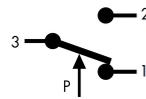
### Mounting position

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

### Arrangement of contacts

für 901.6x, 901.8x, 901.9x

nur für 901.7x



### 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  
 EU ATEX 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, IP 54 and IP 65

## Pressure connection

Type	Tube connection			Threaded connection			
	5.0 mm	6.5 mm	10.0 mm	M10x1	G1/8	G1/4	G1/2
901.61 - 65	PA	PA, PPS	PA, PPS	PA, PVDF CuZn40, AISI 316	PA, PVDF CuZn40, AISI 316	CuZn40, AISI 316	CuZn40
901.66 - 68				CuZn40, AISI 316	CuZn40, AISI 316	CuZn40, AISI 316	CuZn40
901.71 - 76	PA	PA, PPS	PA, PPS	PA, PVDF CuZn40, AISI 316	PA, PVDF CuZn40, AISI 316	CuZn40, AISI 316	
901.77 - 78				CuZn40, AISI 316	CuZn40, AISI 316	CuZn40, AISI 316	CuZn40
901.8x		PA					
901.91 - 93				CuZn40	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.

Viton® is a registered trademark of DuPont Dow Elastomers.  
Prescal® is a registered trademark of Beck GmbH Druckkontrolltechnik.

## Overpressure range

Type	Adjustment range for trip pressure		Switching differential	Maximum positive working pressure standard/extended	Maximum negative working pressure standard/extended
	from	to			
901.61	5 mbar	20 mbar	3 mbar	0.5 / 4 bar	- / - 1 bar
901.62	10 mbar	50 mbar	5 mbar	0.5 / 4 bar	- / - 1 bar
901.63	25 mbar	100 mbar	10 mbar	0.5 / 4 bar	- / - 1 bar
901.64	50 mbar	250 mbar	20 mbar	1 / 4 bar	- / - 1 bar
901.65	100 mbar	500 mbar	50 mbar	1 / 4 bar	- / - 1 bar
901.66	250 mbar	1,000 mbar	150 mbar	10 bar	- 1 bar
901.67	500 mbar	1,500 mbar	250 mbar	10 bar	- 1 bar
901.68	1,000 mbar	3,000 mbar	500 mbar	10 bar	- 1 bar
901.91	1.0 bar	6.0 bar	0.5 – 2.0 bar	25 bar	- 1 bar
901.92	4.0 bar	9.0 bar	0.5 – 2.0 bar	25 bar	- 1 bar
901.93	7.0 bar	12.0 bar	0.5 – 2.0 bar	25 bar	- 1 bar

## Vacuum range

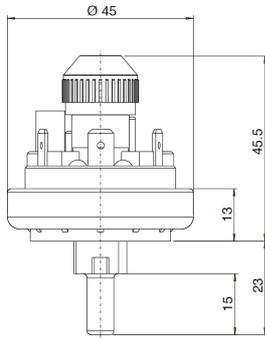
901.71	-5 mbar	- 20 mbar	3 mbar	0.5 / 4 bar	- 1 bar
901.72	-10 mbar	- 50 mbar	5 mbar	0.5 / 4 bar	- 1 bar
901.73	-25 mbar	-100 mbar	10 mbar	0.5 / 4 bar	- 1 bar
901.74	-50 mbar	-125 mbar	20 mbar	0.5 / 4 bar	- 1 bar
901.75	-75 mbar	-200 mbar	25 mbar	1 / 4 bar	- 1 bar
901.76	-100 mbar	-300 mbar	30 mbar	1 / 4 bar	- 1 bar
901.77	-200 mbar	-500 mbar	75 mbar	1 / 4 bar	- 1 bar
901.78	-300 mbar	-700 mbar	75 mbar	1 / 4 bar	- 1 bar

## Differential pressure range

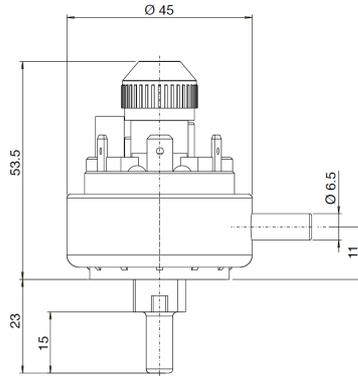
901.81	5 mbar	20 mbar	3 mbar	100 mbar	-100 mbar
901.82	10 mbar	50 mbar	5 mbar	100 mbar	-100 mbar

# Dimensional Drawings

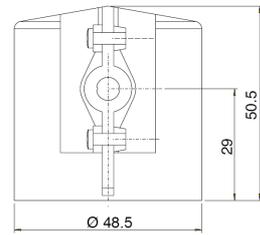
**901.6x/7x**



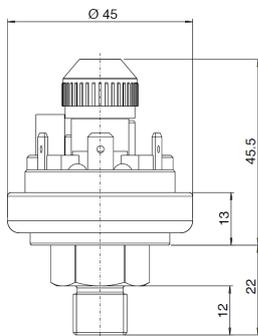
**901.8x**



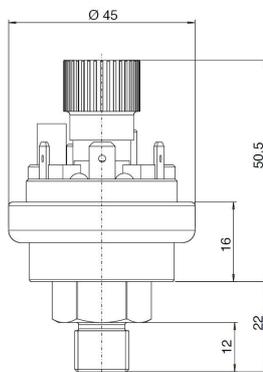
**Protection caps  
6329 IP44**



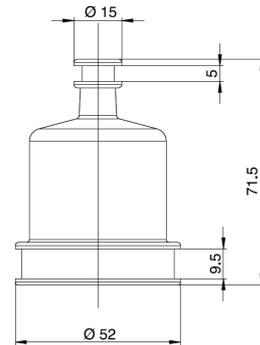
**901.6x/7x**



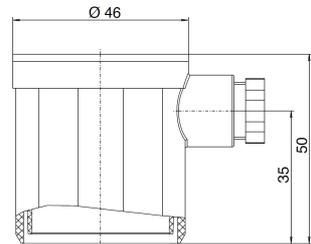
**901.9x**



**6365 IP54**

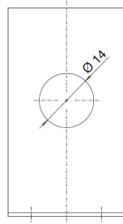


**6371 IP54 / 6372 IP65**

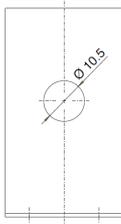


**Mounting brackets**

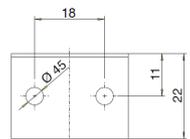
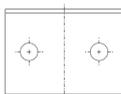
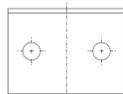
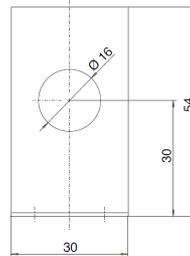
**6403**



**6404**



**6405**



**6374 IP54 / 6375 IP65**

