

GENERAL CHARACTERISTICS



The pressure switches PSV4 series use, as sensitive element, a diaphragm or a piston depending on the measuring range. An electrical contact, SPDT type, is activated when the set value is reached.

The adjusting screw is mounted on the head of the instruments, you can set the calibration value, within the entire measuring range. Appropriate mechanical stops protect the electrical contact from excess of pressure.

The electrical connections is realized via a DIN-43650 plug with IP65 degree of protection.

These pressure switches are used in hydraulic and pneumatic equipment, in the industrial plants, pumps, machine tools etc..



- Pressure control from 0.2 to 400 bar.
- SPDT contact.
- Easy to use and adjust.
- Easy to install.

SETTING RANGES

Tab.1

Diaphragm bar	Piston bar	Tolerance value bar	Hysteresis fixed bar	P max bar			T max (°) °C	Code
				Ottone	Acciaio	Inox		
0,2 - 2,5	-	± 0,15	± 0,25	25	25	25	-20/+80	025 R
1 - 12	-	± 0,6	± 1,2	25	25	25	-20/+80	012 S
1 - 12	-	± 0,6	± 1,2	150	150	150	-20/+80	012 SM
5 - 50	-	± 2,5	± 5,0	150	150	150	-20/+80	050 TM
-	1 - 12	± 0,6	± 2,4	300	300	300	-20/+80	012 P
-	5 - 50	± 2,5	± 10	300	300	300	-20/+80	050 T
-	10 - 100	± 5,0	± 20	300	300	300	-20/+80	100 V
-	20 - 200	± 10	± 40	300	300	300	-20/+80	200 Z
-	50 - 400	± 20	± 100	600	600	600	-20/+80	400 Y

(*) Reference to NBR diaphragm, stainless steel piston / NBR seals

Factory set - Decreasing	00D	..	Letter of range code
Factory set - Increasing	00U	..	

► The set point value is shown in description master data ◀

TECHNICAL DATA

Tab.2

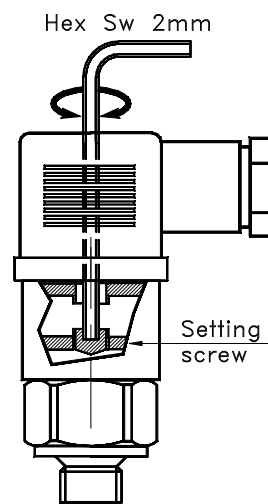
	Description	S Standard R On request		Code	
		Body	Tropicalized steel		S
	Brass	-	R	L	
	Stainless steel AISI-316	-	R	X	
		°C			
Diaphragm and seals	NBR	-20/+80	S	-	(-)
	EPDM	-20/+90	-	R	E
	VITON	-20/+150	-	R	V
	PTFE	-30/+200	-	R	T
Piston	St. steel AISI-316	-30/+140	S	-	(-)

	Description	S Standard R On request		Code	
		Process connection	1/8" M - UNI 228/1		-
1/8" M - UNI 7/1	-		R	2	
1/8" M - NPT	-		R	4	
1/4" M - UNI 7/1	-		R	6	
1/4" M - UNI 228/1	S		-	1	
1/4" M - NPT	-		R	5	
M10x1 Taper	-		R	3	
Contact	250VAC 0,5A	SPDT	-	R	F4
	48 VDC 0,2A				
Electrical output	Plug DIN 43650	IP65	S	-	M3
-	Mechanical life	10 ⁶ cicli	S	-	-
-	Switching frequency	90 cycle/min	S	-	-

ADJUSTMENT

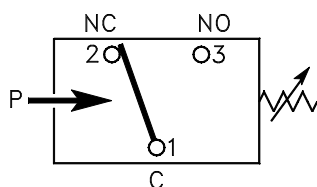
To adjust the set point, turn the screw located into the head of the pressure switch.

- Clockwise = Increase (+)
- Counterclockwise = decrease (-)



WIRING

Tab.3



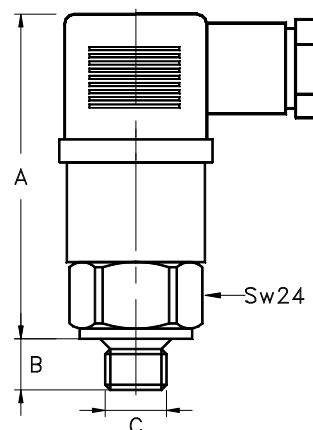
SPDT

F4

DIMENSIONS mm.

Tab.4

A	B	C	Code
66	9	1/8" M - UNI 228/1	0
66	9	1/8" M - UNI 7/1	2
66	9,5	1/8" M - NPT	4
66	14,4	1/4" M - UNI 7/1	6
66	10,5	1/4" M - UNI 228/1	1
66	14,4	1/4" M - NPT	5
66	9	M10x1 Taper	3



NOMENCLATURE

PSV	F4	100-V	M3	(-)	(-)	6	IP65
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		•					
			•				
				•			
					•		
						•	
							•

-	Type
Tab.2-3	Contact and Wiring
Tab.1	Adjustable range or Setting value – Sensing element
Tab.2	Electrical output
Tab.2	Body material
Tab.2	Diaphragm / piston material
Tab.2-4	Process connection
Tab.2	Degree of protection