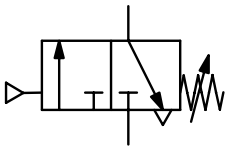
PRESSURE AND VACUUM SWITCH WITH PNEUMATIC OUTPUT, TYPE "AIRTROL®" PP / VP

Description	Pilot-actuated pressure valve with precisely adjustable pilot setpoint. Perfect for applications which require intrinsic safety, pneumatic sequencing or pressure relief. Valves are normally opened or closed. The switch complies with FDA regulations and is suitable for water and food products.		
Media	5 µm filtered compressed air		
Pressure valve	3-port/2-way air-assisted servo valve with exhaust to atmosphere, NO or NC, made of nylon		
	Supply pressure:	1.4…8 bar, untapped exhaust	
	Air consumption:	max. 0.3 l/min at 2 bar supply pressure or max. 0.7 l/min at 7 bar	
	Pneumatic connection:	quick connector for hose external diameter of 4 mm (5/32")	
	Flow rate:	70 l/min at 7 bar, nominal size DN 0.2, K_v = 0.05	
	Switching time:	64 ms at 6 bar supply pressure	
Accuracy	Pressure switch:	at supply pressure variation of 0.7 bar: < 7 mbar pressure deviation	
	Vacuum switch:	at supply pressure variation of 0.3 bar: < 3 mbar pressure deviation	
	Repeatability:	± 2% FS	
Temperature range	4 °C to 60 °C / 40 °F to 140 °F	**Mounting position**	any
Material	Body: polysulphone	Spring:	stainless steel
	Diaphragm: polyurethane	Media non-contact parts:	nylon, carbon fibre nylon, acetal



70…350 mbar / 7 bar
-30…-170 / -850 mbar

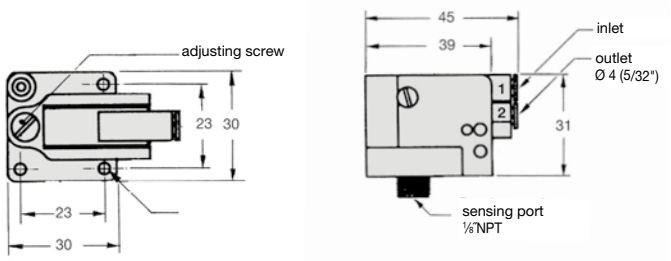
Description	Supply pressure of switching valve	Hysteresis typical mbar	Hysteresis max. mbar	Over-pressure max. bar	Measurement range bar	Order number	D*
Switch with pneumatic output, NO				⅛" NPT male, supply pressure 1.4…8 bar		**PP / VP700**	
pressure switch	1.4…8 bar	15	30	2	0.07… 0.35	**PP700- 5PT**	
		20	40	4	0.07… 1.0	**PP700- 15PT**	
*1	NO	20	70	4	0.07… 2.1	**PP700- 30PT**	
		35	140	8	0.20… 4.2	**PP700- 60PT**	
		50	240	8	0.35… 7.0	**PP700-100PT**	
vacuum switch	1.4…8 bar	15	35	-1	-0.03…-0.17	**VP700- 5PT**	
		20	40	-1	-0.03…-0.34	**VP700- 10PT**	
*1	NO	35	70	-1	-0.07…-0.85	**VP700- 30PT**	
Switch with pneumatic output, NC				⅛" NPT male, supply pressure 1.4…8 bar		**PP / VP701**	
pressure switch	1.4…8 bar	15	30	2	0.07… 0.35	**PP701- 5PT**	
		20	40	4	0.07… 1.0	**PP701- 15PT**	
*2	NC	20	70	4	0.07… 2.1	**PP701- 30PT**	
		35	140	8	0.20… 4.2	**PP701- 60PT**	
		50	240	8	0.35… 7.0	**PP701-100PT**	
vacuum switch	1.4…8 bar	15	35	-1	-0.03…-0.17	**VP701- 5PT**	
		20	40	-1	-0.03…-0.34	**VP701- 10PT**	
*2	NC	35	70	-1	-0.07…-0.85	**VP701- 30PT**	

PP/VP700-...PT

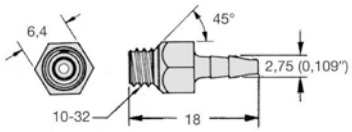
PP/VP701-...FM

Special options, add or change the appropriate letter

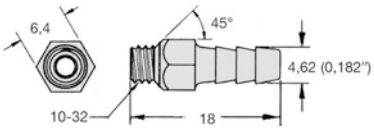
flush mounting	barbed fitting made of nylon,		Ø 1/16", Ø 2 mm	. P70. - . . . **FM**
panel mounting	barbed fitting made of nylon,		Ø 1/16", Ø 2 mm	. P70. - . . . **PM**
manifold mounting				. P70. - . . . **MM**
barbed fitting	for FM and PM,	nylon,	Ø 1/16", Ø 2 mm	. P70. - . . . . . **B80** Stand.
		nylon,	Ø ⅛", Ø 4 mm	. P70. - **B85**
		polysulphone,	Ø 1/16", Ø 2 mm	. P70. - **P80**
		polysulphone,	Ø ⅛", Ø 4 mm	. P70. - **P85**
free of grease and oil	specially cleaned, suitable for oxygen			. P70. - . . . . . **L**



PP / VP70



B80 / P80



B85 / P85

*1 only output signal in the absence of input signal (positive pressure, vacuum)
*2 no output signal in the absence of input signal (positive pressure, vacuum)

* Product group

PDF CAD
www.aircom.net

Order example:
PP700-5PT