

2/2-Way Pneumatic Piston Operated Valve with Engineering Plastic-Piston Actuator

DATA SHEET
PV-5812M-NC
PV-5822M-NO

For On-Off Application, 5812M For Flow Above Seat (Normally Closed),
5822M For Flow Above Seat (Normally Open).

SPECIFICATIONS

Sizes : 15mm (½") to 150mm (6").

CONSTRUCTION

Body : Cast Iron : IS 210 Gr. FG 200
SG Iron- ASTM A536, Gr.60-40-18
(DIN 0.7043)(GGG40.3).
Cast Steel: ASTM A 216 Gr. WCB
St.St.: ASTM A 351CF8(SS304),or
ASTM A351CF8M(SS316).

Pressure Temp. Rating : As per ANSI B 16.5 Class 150.
End Connections : Flanged as per ANSI B 16.5 Class 150.
Trim : St. St. AISI 420/304/316 Ground
and hard chrome plated.

Stem Packing : Self adjusting, Spring loaded,
Teflon Packing

Plug and Seat : St. St.: AISI 420/304/316
Seating : Soft seated Teflon backed by
EPDM. Optional-VITON/EPDM,
Buna Nitrile.

Leakage : Soft Seated Class VI , as per
ANSI B 16.104-1976.

Characteristics : On-Off, normally close/open.
Working Fluid Pressure : Refer to table below.
Working Temperature : On steam- continuous :155°C,
Intermittent 180°C, EPDM 135°C,
VITON 180°C

ACTUATOR

Spring Return type Engineering Plastic Pneumatic
Actuator. (Except size 150 mm)
Cylinder Cover & Piston: Glass filled polyamide.
Piston Packing : Buna Nitrile.
Actuator Spring : IS 4454 Grade III, duly painted.
Act. Wkg. Pres. : 3.5 to 6 bar (refer to graph)
(Signal Pr.)
Operating cycles : Upto 50 mm 300 cy/hr.,(tested on
air,on other fluids this figure may
vary). For other size details,
refer to AVCON.



Life expectancy : Over one million cycles (lab
tested in ideal condition.)
Air Quality : Lubricated filtered and free
of moisture. Shop air or dry
instrument quality air.
Max. Operating
Pressure differential : Refer to graph.
Accessories : Air lock, position indicating
limit switch box, solenoid
valve, filter regulator gauge.
Other accessories available
on application.
Application : For control of air, water, gas,
steam in textile, power generator,
paper & pulp, chemical,
petrochemical industries,
PSA nitrogen system, air dryers,
gas generators and others.
Back Pressure : Suitable upto 2.5 bar.
Instruction manual : Refer to IM 5812M/5822M.

SPECIFICATION TABLE

TYPE 5812M, FOR NORMALLY CLOSED VALVE, FLOW ABOVE SEAT

Catalogue Number	Size mm	Orifice Size mm	Flow Factor Kv M ³ /hr.	Maximum Pressure in Bar		Actuator Model No.	Air Consumption Lit/Cys.	Weight Kgs.
				Oil/Water/Air	Steam			
5812M155	15	15	4	16	10	K-61	0.06	3.1
5812M205	20	20	7	16	10	K-61	0.06	3.73
5812M255	25	25	10.5	16	10	K-81	0.25	6.43
5812M305	30	UNDER DEVELOPMENT						
5812M405	40	38	31	12	10	K-101	0.64	11.38
5812M505	50	50	42	10	8	K-101	0.64	15.67
SPECIFICATION TABLE TYPE 5822M, FOR NORMALLY OPEN VALVE, FLOW ABOVE SEAT								
5822M155	15	15	4	16	10	K-61	0.06	3.0
5822M205	20	20	7	16	10	K-61	0.06	3.74
5822M255	25	25	10.5	16	10	K-81	0.25	6.17
5822M305	30	UNDER DEVELOPMENT						
5822M405	40	38	31	8	7	K-101	0.64	10.27
5822M505	50	50	42	6	5	K-101	0.64	14.27

Note : 5812 & 5822 can not be interchanged & are to be ordered out separately.