

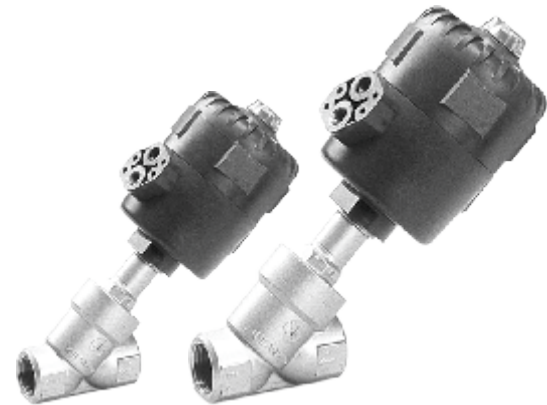
2/2-Way Angled Metal Body Valve with Engineering Plastic-Piston Actuator.

DATA SHEET
PV-6812M
PV-6824M

For On-Off Application (Rust Free Design), Normally Closed Type.
6812M For Flow Over The Seat, 6824M For Flow Under The Seat

SPECIFICATIONS

Sizes	: 15mm (1/2") to 50mm (2").
Construction	: 6812M-NC-Flow over the seat. 6824M-NC-Flow under the seat.
Body and Bonnet	: Standard-Investment casted SS-ASTM A351 CF8 (DIN1.4301). Optional-Investment casted SS- ASTM A351CF8M (DIN1.4408) (GX6 Cr.Ni MO1810)
Pressure Temp. Rating	: As per ANSI Class 300.
End Connection	: Standard- BSP(F), Optional- NPT(F)[1], Socket weld[2], Flange end[5], Spigot end [6], TC end[7].
Seating	: Standard-Soft seat PTFE backed by EPDM. Optional-VITON/EPDM/ Buna Nitrile.
Leakage	: As per ANSI B16.104-1976 PTFE seating class IV Drop Tight/Bubble Tight.
Trim	: Standard-SS AISI 304, Optional-SS AISI 316.
Stem Packing	: Self adjusting, Spring loaded PTFE packing.
Characteristic	: On-Off, Normally Closed.
Working Fluid Press.	: Refer to table bellow.
Working Temperature	: On steam-continuous 155°C, Intermittent 180 °C, EPDM 135 °C, VITON 180 °C,



ACTUATOR

Spring Return type Engineering Plastic Pneumatic Actuator.
Cylinder, Cover, Body : Glass filled polyamide.
& Piston

Piston Packing	: Buna Nitrile.
Actuator Spring	: IS 4454 Grade III, duly painted.
Pilot Pressure	: 3.5 to 6 bar (refer to graph)
Solenoid Mounting	: Valve has built in Namur mounting interface, any standard Namur Solenoid Valve can be fitted
Operating cycles Per hour	: 15mm, 20mm, 25mm upto 600 cy/hr., 35mm and 50mm upto 300 cy/hr.(tested on air, on other fluids this figure may vary).

Air Quality	: Lubricated/Non-lubricated.
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, oil, gas, steam in textile, power generation, paper & pulp, chemical, petrochemical industries, PSA nitrogen system, air dryer, gas generator and others.
Back Pressure	: Generally all models are suitable for back pressure upto 2.5 bar. However for specific application where higher back pressure is expected, refer to 'AVCON'.

SPECIFICATION TABLE

Catalogue Number	Size BSP(F)		Orifice Size	Flow Factor Kv	Maximum Pressure	Inlet Pressure Over / Under the seat	Body Test Pressure	Actuator Type	Air consumption	Weight ◆ (Approx.)
	Inch	mm								
6812M15X - K51	1/2	15	16	4.3	12	Over	30	K-51 NC	0.04	0.97
6812M20X - K51	3/4	20	16	5.4	16	Over	30	K-51 NC	0.06	1.18
6812M25X - K61	1	25	23	13.6	10	Over	30	K-61 NC	0.16	1.83
6812M30X - K81	1 1/4	30	32	31.8	10	Over	30	K-81 NC	0.25	2.35
6812M35X - K81	1 1/2	35	34	31.8	10	Over	30	K-81 NC	0.64	3.27
6812M50X - K81	2	50	45	54.8	10	Over	30	K-81 NC	0.64	3.78
6824M15X - K61	1/2	15	16	4.3	12	Under	30	K-61 NC	0.16	1.15
6824M20X - K61	3/4	20	16	5.4	10	Under	30	K-61 NC	0.25	1.18
6824M25X - K81	1	25	23	13.6	19	Under	30	K-81 NC	0.43	2.40
6824M30X - K81	1 1/4	30	32	31.8	12	Under	30	K-81 NC	0.43	2.90
6824M35X - K121	1 1/2	35	34	31.8	10	Under	30	K-121 NC	0.92	3.80
6824M50X - K121	2	50	45	54.8	7	Under	30	K-121 NC	0.92	4.95

◆ Weight of screwed end valves. For other models refer AVCON.

Water Hammer
Free Design