

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

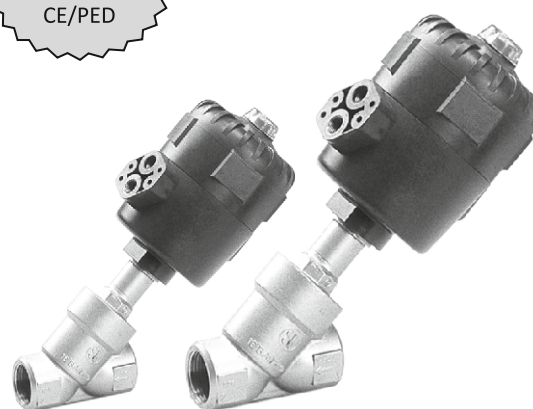
For On-Off Application (Rust Free Design), Normally Closed Type.
6812M For Flow Over The Seat, 6824M For Flow Under The Seat

DATA SHEET
PV-6812M
PV-6824M

SPECIFICATIONS

Sizes	: 15mm (1/2") to 100mm (4").
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 FCI 70-2. PTFE seating class VI. 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 Close.
Working Fluid Press.	: Refer to table below.
Working Temperature	: On steam-continuous 155°C, Intermittent 180°C, EPDM 135°C, VITON 180°C,

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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'.

ACTUATOR

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

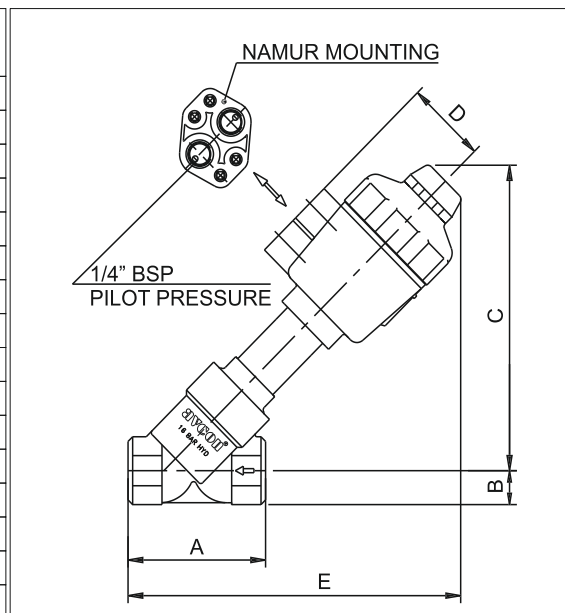
SPECIFICATION TABLE

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	mm	M ³ /hr	bar		bar	No.	Litres /cy.	Kgs.
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
6812M80X - K121	3	80	75	100	3	Over	30	K-121 NC	0.92	5.8
6812M100X - K121	4	100	95	125	3	Over	30	K-121 NC	0.92	6.4
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 - K101	1 1/2	35	34	31.8	10	Under	30	K-101 NC	0.65	3.17
6824M50X - K121	2	50	45	54.8	7	Under	30	K-121 NC	0.92	4.95
6824M80X - K121	3	80	75	100	2	Under	30	K-121 NC	0.92	5.8
6824M100X - K121	4	100	95	125	2	Under	30	K-121 NC	0.92	6.4

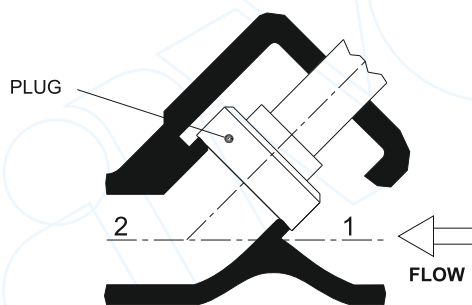
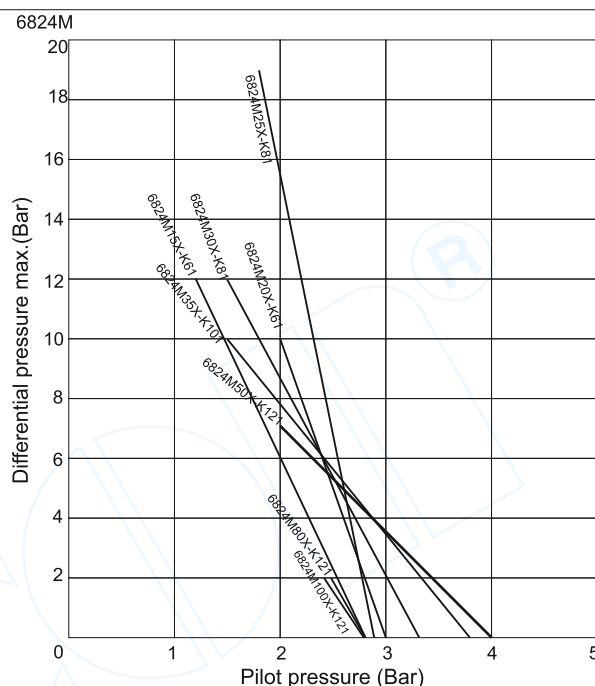
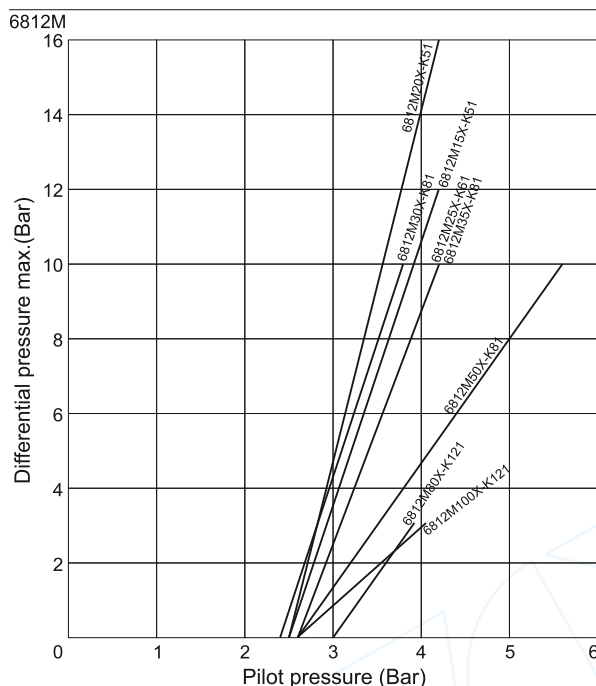
♦ Weight of screwed end valves. For other models refer AVCON.

Water Hammer
Free Design

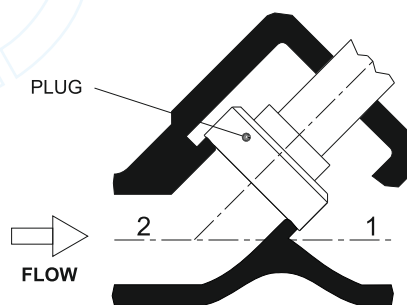
Catalogue Number	Size		Actuator	A	B	C	D	E
	Inch	mm						
6812M15X-K51	1/2	15	K-51	63.5	16.8	157	44.0	177
6812M20X-K51	3/4	20	K-51	75.0	18.0	162	44.0	182
6812M25X-K61	1	25	K-61	90.0	21.5	180	52.0	204
6812M30X-K81	1 1/4	30	K-81	110.0	26.0	226	60.5	260
6812M35X-K81	1 1/2	35	K-81	125.0	29.0	226	60.5	265
6812M50X-K81	2	50	K-81	150.0	35.0	230	60.5	272
6812M80X-K121	3	80	K-121	220.0	50.0	342	87	375
6812M100X-K121	4	100	K-121	235.0	62.0	362	87	385
6824M15X-K61	1/2	15	K-61	63.5	16.8	167	52.0	188
6824M20X-K61	3/4	20	K-61	75.0	18.0	175	52.0	192
6824M25X-K81	1	25	K-81	90.0	21.5	204	60.5	230
6824M30X-K81	1-1/4	30	K-81	110.0	26.0	226	60.5	260
6824M35X-K101	1 1/2	35	K-101	125.0	29.0	300	72.5	320
6824M50X-K121	2	50	K-121	150.0	35.0	322	87.0	365
6824M80X-K121	3	80	K-121	220.0	50.0	342	87.0	375
6824M100X-K121	4	100	K-121	235.0	62.0	362	87.0	385



• Open tolerance ± 3 mm all over.



NORMALLY CLOSED-FLOW OVER THE SEAT
CATALOGUE NO. 6812M



NORMALLY CLOSED-FLOW UNDER THE SEAT
CATALOGUE NO. 6824M

Note:

Technical specifications, details & dimensions are subject to change without prior notice.
Dimensions in the table are approximate subject to final confirmation by AVCON.

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