

2/2- Way Angle Seated NB Base (As Per ISO) 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 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) (SS-304). Optional-Investment casted,CF8M(SS-316) (DIN1.4408) (GX6 Cr.Ni MO1810).
Pressure Temp. Rating	: As per ANSI Class 300.
End Connection	: Flange end[5].
Seating	: Standard-Soft seat PTFE 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 Closed.
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 moisture free.
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

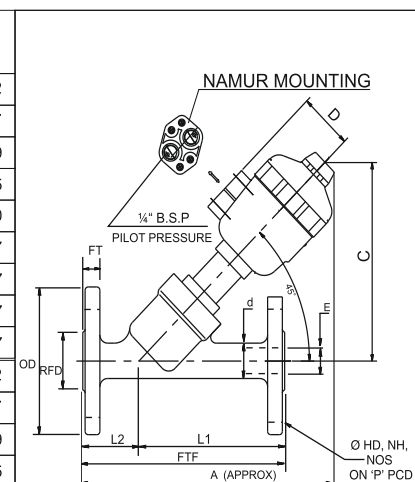
Catalogue Number	Size BSP(F)		Orifice Size	Flow Factor Kv	Maximum Pressure	Inlet Pressure Over / Under the seat	Body Test Pressure	Actuator	Air consumption	Weight ♦ (Approx.)
	Inch	mm								
ISO6812M155 - K51	½	15	16	4.3	12	Over	30	K-51 NC	0.04	1.27
ISO6812M205 - K51	¾	20	16	5.4	16	Over	30	K-51 NC	0.06	1.68
ISO6812M255 - K61	1	25	23	13.6	10	Over	30	K-61 NC	0.16	2.33
ISO6812M305 - K61	1 ¼	30	32	31.8	10	Over	30	K-61 NC	0.16	2.85
ISO6812M355 - K81	1 ½	35	34	31.8	10	Over	30	K-81 NC	0.64	3.97
ISO6812M505 - K81	2	50	45	54.8	10	Over	30	K-81 NC	0.64	4.48
ISO6824M655 - K121	2 ½	65	50	59	6	Over	30	K-121-NC	0.92	5.28
ISO6824M805 - K121	3	80	65	65	5	Over	30	K-121-NC	0.92	5.78
ISO6824M1005-K121	4	100	83	73	4	Over	30	K-121-DA	0.92	6.28
ISO6824M155 - K61	½	15	16	4.3	12	Under	30	K-61 NC	0.16	1.15
ISO6824M205 - K61	¾	20	16	5.4	10	Under	30	K-61 NC	0.25	1.18
ISO6824M255 - K81	1	25	23	13.6	19	Under	30	K-81 NC	0.43	2.40
ISO6824M305 - K81	1 ¼	30	32	31.8	12	Under	30	K-81 NC	0.43	2.90
ISO6824M355 - K121	1 ½	35	34	31.8	10	Under	30	K-121 NC	0.92	3.80
ISO6824M505 - K121	2	50	45	54.8	7	Under	30	K-121 NC	0.92	4.95
ISO6824M655 - K121	2 ½	65	50	59	6	Under	30	K-121-NC	0.92	5.28
ISO6824M805 - K121	3	80	65	65	5	Under	30	K-121-NC	0.92	5.78
ISO6824M1005 -K121	4	100	83	73	4	Under	30	K-121-DA	0.92	6.28

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

Water Hammer
Free Design

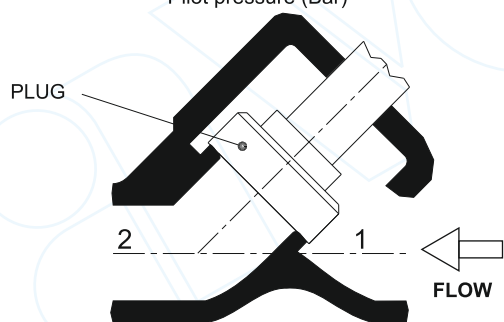
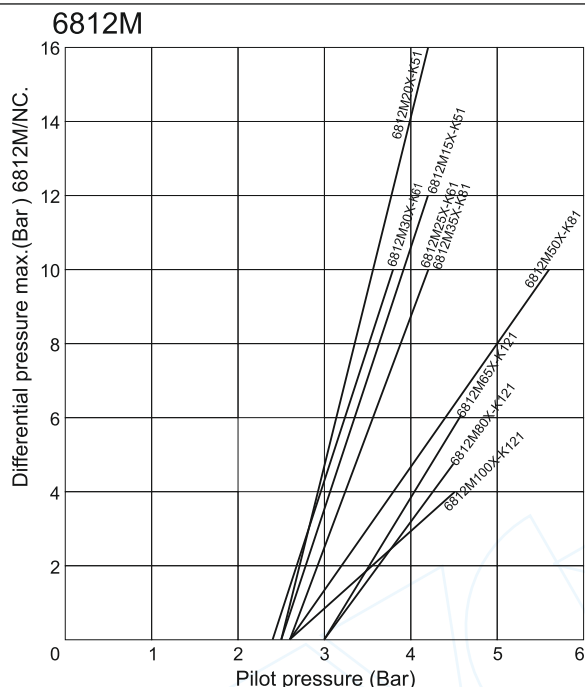
Catalogue Number	Size		Actuator	FTF	L2	L1	d	D	E	FT	NH	HD	P	OD	C	A
	Inch	mm														
ISO6812M155 - K51	½	15	K-51	130	25	105	21.3	44	15	11	4	16	60	89	157	182
ISO6812M205 - K51	¾	20	K-51	150	37	113	26.9	44	20	11	4	16	70	98	162	187
ISO6812M255 - K61	1	25	K-61	160	32	128	33.7	52	25	11	4	16	79	108	180	209
ISO6812M305 - K61	1 ¼	30	K-61	180	41	139	42.4	52	32	13	4	16	89	117	226	265
ISO6812M355 - K81	1 ½	35	K-81	200	47	153	48.3	60.5	40	14	4	16	98	127	226	270
ISO6812M505 - K81	2	50	K-81	230	71	159	60.3	60.5	50	16	4	19	121	152	230	277
ISO6812M655 - K121	2 ½	65	K-121	290	-	-	603	87	65	22	4	19	140	178	250	287
ISO6812M805 - K121	3	80	K-121	310	-	-	70	87	75	23.5	4	19	152	190	260	297
ISO6812M1005 - K121	4	100	K-121	350	-	-	90	87	100	23.5	8	19	190	229	270	307
ISO6824M155 - K61	½	15	K-61	130	25	105	21.3	44	15	11	4	16	60	89	157	182
ISO6824M205 - K61	¾	20	K-61	150	37	113	26.9	44	20	11	4	16	70	98	162	187
ISO6824M255 - K81	1	25	K-81	160	32	128	33.7	52	25	11	4	16	79	108	180	209
ISO6824M305 - K81	1 ¼	30	K-81	180	41	139	42.4	52	32	13	4	16	89	117	226	265
ISO6824M355 - K121	1 ½	35	K-121	200	47	153	48.3	60.5	40	14	4	16	98	127	226	270
ISO6824M505 - K121	2	50	K-121	230	71	159	60.3	60.5	50	16	4	19	121	152	230	277
ISO6824M655 - K121	2 ½	65	K-121	290	-	-	603	87	65	22	4	19	140	178	250	287
ISO6824M805 - K121	3	80	K-121	310	-	-	70	87	75	23.5	4	19	152	190	260	297
ISO6824M1005 - K121	4	100	K-121	350	-	-	90	87	100	23.5	8	19	190	229	270	307

• Open tolerance ±3 mm all over.

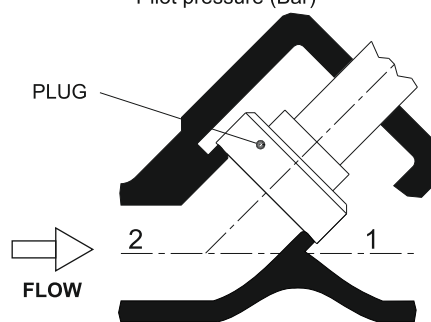
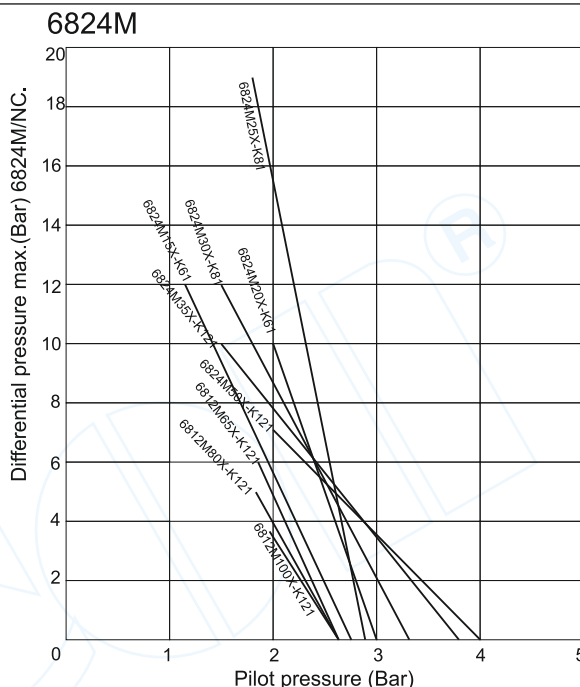


NB BASED DESIGN

with Built in Flanges as per ASME-B 16.5 Class-150



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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