



# Angle Seated Valve Type 6812M As per ISO Standard (NB Base)

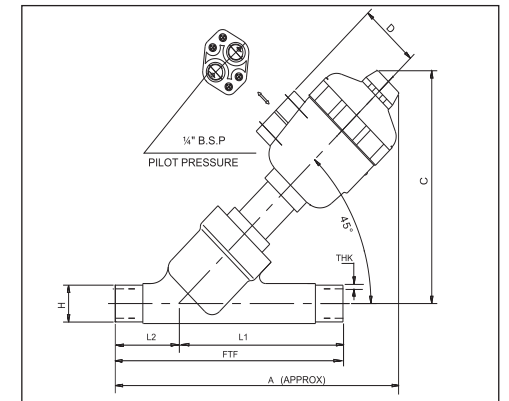


**Pioneer Spirit in Valve Automation**

Ed:6812M/24M12.15

### DIMENSIONS ( IN MM) SPIGOT - AS PER ISO - 4200

Model	H	THK	FTF	L1	L2	A	C	D
ISO6812M156 - K51	21.3	1.6	130	105	25	182	157	44
ISO6812M206 - K51	26.9	1.6	150	113	37	187	162	44
ISO6812M256 - K61	33.7	1.6	160	128	32	209	180	52
ISO6812M306 - K61	42.4	1.6	180	139	41	265	226	60.5
ISO6812M356 - K81	48.3	1.6	200	153	47	270	226	60.5
ISO6812M506 - K81	60.3	1.6	230	159	71	277	230	60.5



### DIMENSIONS ( IN MM) FLANGED - ANSI - CLASS - 150

Model	FTF	L2	L1	d	D	E	FT	NH	HD	P	OD	C	A
ISO6812M155-A1 - K51	130	25	105	21.3	35	15	11	4	16	60	89	157	182
ISO6812M205-A1 - K51	150	37	113	26.9	43	20	11	4	16	70	98	162	187
ISO6812M255-A1 - K61	160	32	128	33.7	51	25	11	4	16	79	108	180	209
ISO6812M305-A1 - K61	180	41	139	42.4	64	32	13	4	16	89	117	226	265
ISO6812M355-A1 - K81	200	47	153	48.3	73	40	14	4	16	98	127	226	270
ISO6812M505-A1 - K81	230	71	159	60.3	92	50	16	4	19	121	152	230	277

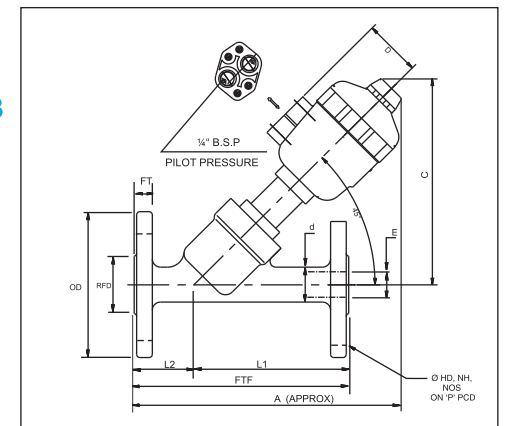
### DIMENSIONS ( IN MM) FLANGED - PN16 - DIN - 2533 - 2543

Model	FTF	L2	L1	d	D	E	FT	NH	HD	P	OD	C	A
ISO6812M155-PN16-K51	130	25	105	21.3	35	15	14	4	14	65	95	157	182
ISO6812M205-PN16-K51	150	37	113	26.9	43	20	16	4	14	75	105	162	187
ISO6812M255-PN16-K61	160	32	128	33.7	51	25	16	4	14	85	115	180	209
ISO6812M305-PN16-K61	180	41	139	42.4	64	32	18	4	18	100	140	226	265
ISO6812M405-PN16-K81	200	47	153	48.3	73	40	18	4	18	110	150	226	270
ISO6812M505-PN16-K81	230	71	159	60.3	92	50	20	4	18	125	165	230	277

### DIMENSIONS ( IN MM) FLANGED - ANSI - CLASS - 300

Model	FTF	L2	L1	d	D	E	FT	NH	HD	P	OD	C	A
ISO6812M155-A3 - K51	130	25	105	21.3	35	15	14	4	16	67	95	157	182
ISO6812M205-A3 - K51	150	37	113	26.9	43	20	16	4	19	83	117	162	187
ISO6812M255-A3 - K61	160	32	128	33.7	51	25	17	4	19	89	124	180	209
ISO6812M305-A3 - K61	180	41	139	42.4	64	32	19	4	19	98	133	226	265
ISO6812M355-A3 - K81	200	47	153	48.3	73	40	21	4	22	114	156	226	270
ISO6812M505-A3 - K81	230	71	159	60.3	92	50	22	8	19	127	165	230	277

When enquiry please identify type of flange required.



Common Drawing For Flanged Valves.

### ACCESSORIES FOR ANGLE SEATED VALVES

<p><b>3/2-Way Midget Type Direct Acting Normally Closed</b></p>	<p><b>Filter Regulator with Gauge.</b></p>	<p><b>Limit Switch/ Proximity Switch Box with Linear Movement.</b></p>	<p><b>3-Way Plastic Namur Solenoid Valve for Spring Return K-Series Plastic Linear Actuator.</b></p>
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Manufactured by:

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## 2/2-Way Angle Seated NB Base (As Per ISO) 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.

### 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)  
(SS-304). Optional-Investment  
casted,CF8M(SS-316) (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].  
Seating : Standard-Soft seat PTFE backed  
by EPDM. Optional-VITON/EPDM/  
Buna Nitrile.  
Leakage : As per ANSI B16.104-1976  
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,



Air Quality : Lubricated /Non-lubricated  
moisture free.  
Max. Operating : Refer to graph.  
Pressure differential.  
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 : 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 : 15mm, 20mm, 25mm upto 600  
Per hour : cy/hr., 35mm and 50mm upto 300  
cy/hr.(tested on air, on other fluids  
this figure may vary).

### SPECIFICATION TABLE

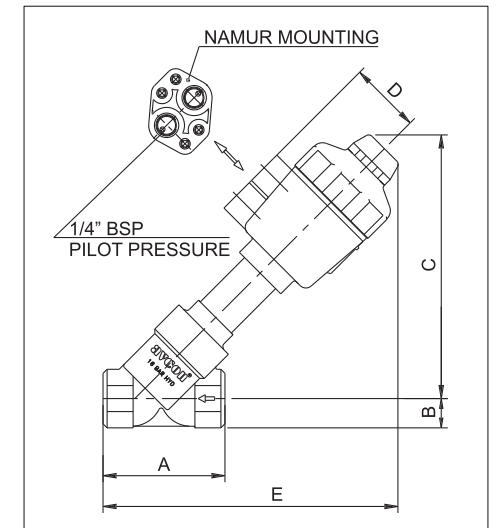
Catalogue Number	Size BSP(F)		Orifice Size	Flow Factor Kv	Maximum Pressure	Inlet Pressure Over / Under the seat	Body Test Pressure	Actuator	Air consumption	Weight (Approx.)
	Inch	mm								
ISO6812M15X - K51	1/2	15	16	4.3	12	Over	30	K-51 NC	0.04	0.97
ISO6812M20X - K51	3/4	20	16	5.4	16	Over	30	K-51 NC	0.06	1.18
ISO6812M25X - K61	1	25	23	13.6	10	Over	30	K-61 NC	0.16	1.83
ISO6812M30X - K61	1 1/4	30	32	31.8	10	Over	30	K-61 NC	0.16	2.35
ISO6812M35X - K81	1 1/2	35	34	31.8	10	Over	30	K-81 NC	0.64	3.27
ISO6812M50X - K81	2	50	45	54.8	10	Over	30	K-81 NC	0.64	3.78
ISO6824M15X - K61	1/2	15	16	4.3	12	Under	30	K-61 NC	0.16	1.15
ISO6824M20X - K61	3/4	20	16	5.4	10	Under	30	K-61 NC	0.25	1.18
ISO6824M25X - K81	1	25	23	13.6	19	Under	30	K-81 NC	0.43	2.40
ISO6824M30X - K81	1 1/4	30	32	31.8	12	Under	30	K-81 NC	0.43	2.90
ISO6824M35X - K121	1 1/2	35	34	31.8	10	Under	30	K-121 NC	0.92	3.80
ISO6824M50X - 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.

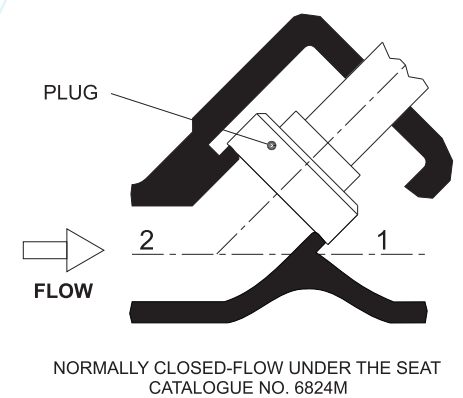
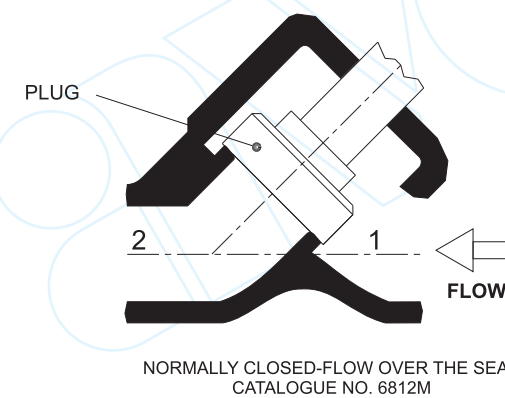
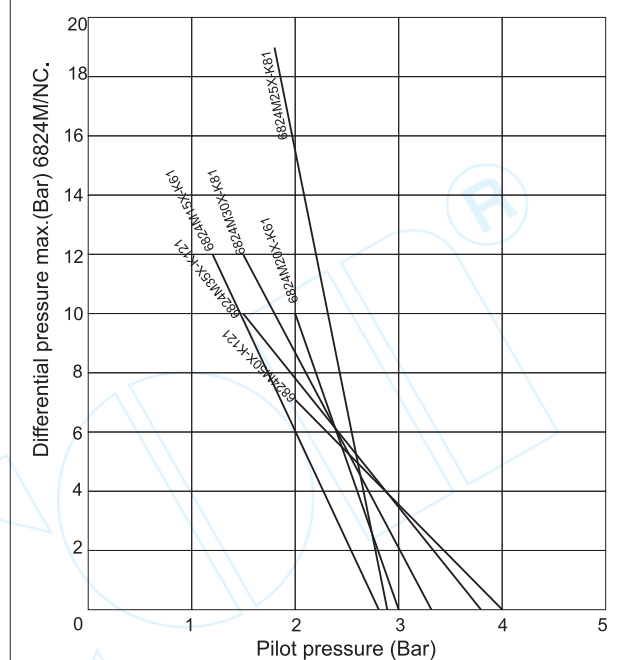
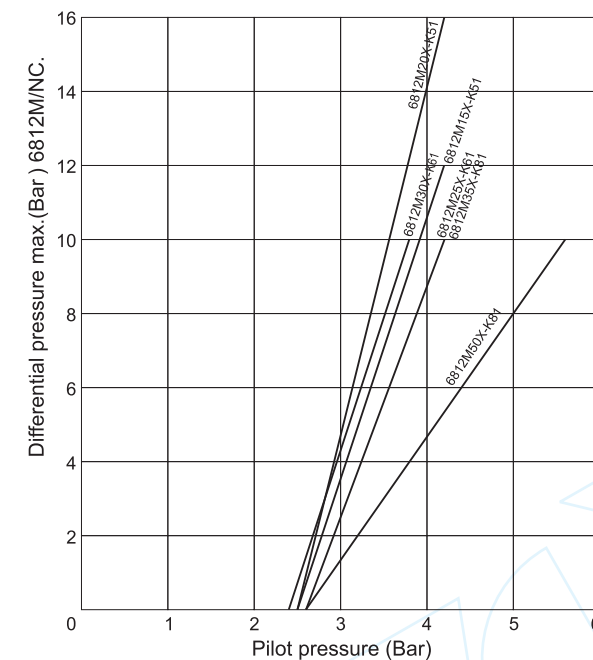
### DIMENSIONS ( IN MM ) AS PER ISO 228 (G THREAD)

Catalogue Number	Size		Actuator	A	B	C	D	E
	Inch	mm						
ISO6812M151 - K51	1/2	15	K-51	63.5	16.8	157	44.0	177
ISO6812M201 - K51	3/4	20	K-51	75.0	18.0	162	44.0	182
ISO6812M251 - K61	1	25	K-61	90.0	21.5	180	52.0	204
ISO6812M301 - K61	1 1/4	30	K-61	110.0	26.0	226	60.5	260
ISO6812M351 - K81	1 1/2	35	K-81	125.0	29.0	226	60.5	265
ISO6812M501 - K81	2	50	K-81	150.0	35.0	230	60.5	272
ISO6824M151 - K61	1/2	15	K-61	63.5	16.8	167	52.0	188
ISO6824M201 - K61	3/4	20	K-61	75.0	18.0	175	52.0	192
ISO6824M251 - K81	1	25	K-81	90.0	21.5	204	60.5	230
ISO6824M301 - K81	1 1/4	30	K-81	110.0	26.0	226	60.5	260
ISO6824M351 - K121	1 1/2	35	K-121	125.0	29.0	310	87.0	348
ISO6824M501 - K121	2	50	K-121	150.0	35.0	322	87.0	365

● Open tolerance ±3 mm all over.



G THREADS AS PER ISO 228 BSP(F)



### Note:

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