



**Angle Seated Valve Type 6812M
As per ASME BPE - (OD Based)**



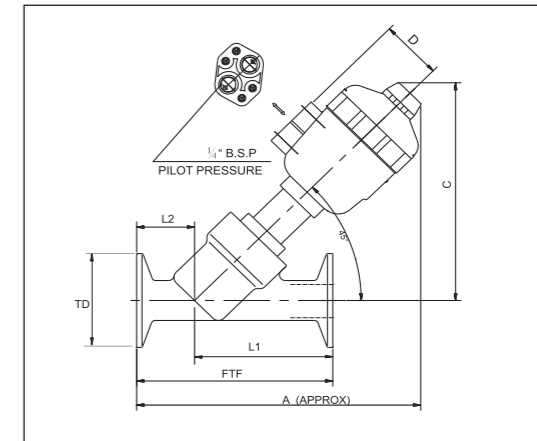
Pioneer Sprit in Valve Automation

Ed. 6812M/24M-2015

DIMENSIONS (IN MM) (BS - TC)

Model	FTF	L2	L1	D	A	C	TD
BS6812M167 - K51	101.6	30	71.6	44	182	157	25
BS6812M217 - K51	101.6	30	71.6	44	187	162	50.4
BS6812M267 - K51	114.3	33	81.3	52	209	180	50.4
BS6812M417 - K81	139.7	27	112.7	60.5	270	226	50.4
BS6812M517 - K81	158.7	32	125.7	60.5	277	230	63.9

Model	FTF	L2	L1	D	A	C	TD
BS6824M167 - K51	101.6	30	71.6	44	182	157	25
BS6824M217 - K61	101.6	30	71.6	44	187	162	50.4
BS6824M267 - K61	114.3	33	81.3	52	209	180	50.4
BS6824M417 - K101	139.7	27	112.7	60.5	270	226	50.4
BS6824M517 - K101	158.7	32	125.7	60.5	277	230	63.9



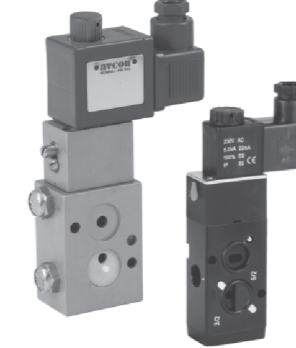
Mechanical Stopper.



Filter Regulator with Gauge.



2-Way/3-Way Namur base Solenoid Valve.



3/2-Way Midget Type Direct Acting Normally Closed.



Limit Switch/ Proximity Switch Box with Linear Movement.



3-Way Plastic Namur Solenoid Valve for Spring Return K-Series Plastic Linear Actuator.



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2/2-Way Angle Seated OD Based (As Per ASME BPE 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 : ½" to 2" (Refer Table)
- 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 : Spigot end (As per ASME BPE).
- 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,



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 : 12.7mm to 25.4mm upto 600 cy/hr., 38.1mm to 50.8mm upto 300cy/hr.(tested on air, on other fluids this figure may vary).

- 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'.

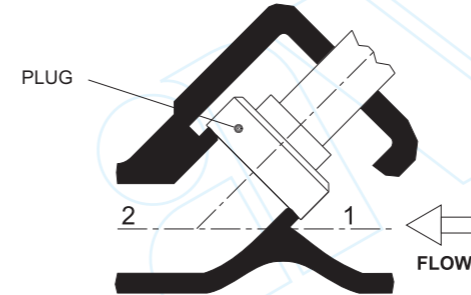
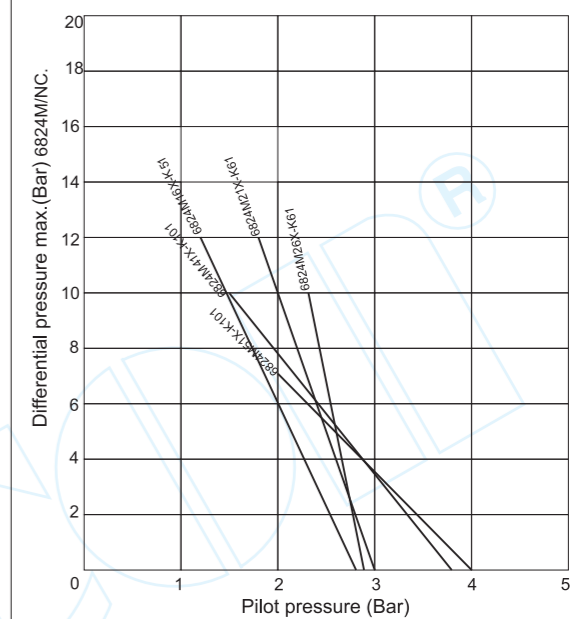
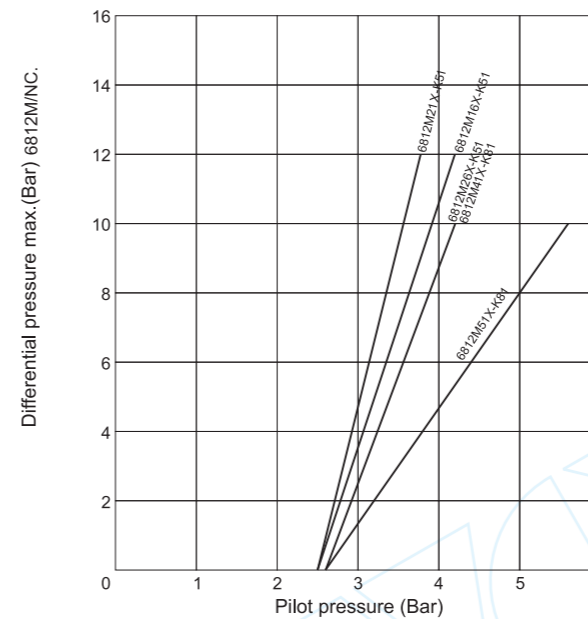
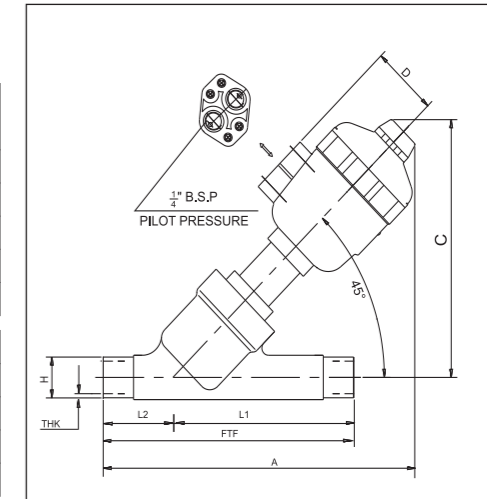
SPECIFICATION TABLE

Catalogue Number	Size SPG(M)	Orifice Size	Flow Factor Kv	Maximum Pressure	Inlet Pressure Over / Under the seat	Body Test Pressure	Actuator	Air consumption	Weight ♦ (Approx.)
	mm								
BS6812M166 - K51	12.7	16	4.3	12	Over	30	K-51 NC	0.04	0.97
BS6812M216 - K51	19.05	16	5.4	12	Over	30	K-51 NC	0.06	1.18
BS6812M266 - K51	25.4	23	13.6	10	Over	30	K-51 NC	0.16	1.83
BS6812M416 - K81	38.1	34	31.8	10	Over	30	K-81 NC	0.64	3.27
BS6812M516 - K81	50.8	45	54.8	10	Over	30	K-81 NC	0.64	3.78
BS6824M166 - K51	12.7	16	4.3	12	Under	30	K-51 NC	0.16	1.15
BS6824M216 - K61	19.05	16	5.4	12	Under	30	K-61 NC	0.25	1.18
BS6824M266 - K61	25.4	23	13.6	10	Under	30	K-61 NC	0.43	2.40
BS6824M416 - K101	38.1	34	31.8	10	Under	30	K-101 NC	0.92	3.80
BS6824M516 - K101	50.8	45	54.8	7	Under	30	K-101 NC	0.92	4.95

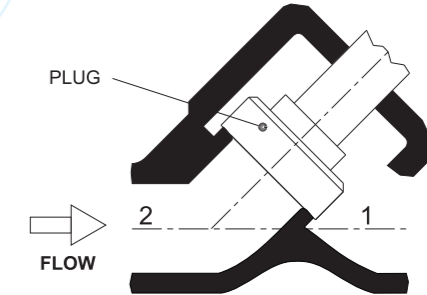
♦ Weight of TC end valves. For other models refer AVCON.

DIMENSIONS (IN MM) (BS - SPG)

Model	H	THK	FTF	L1	L2	A	C	D
BS6812M166 - K51	12.7	1.65	105	72.5	32.5	182	157	44
BS6812M216 - K51	19.05	1.65	120	90.5	29.5	187	162	44
BS6812M266 - K51	25.4	1.65	125	96	29	209	180	52
BS6812M416 - K81	38.1	1.65	160	133	27	265	226	60.5
BS6812M516 - K81	50.8	1.65	180	148	32	270	226	60.5
BS6824M166 - K51	12.7	1.65	105	72.5	32.5	182	157	44
BS6824M216 - K61	19.05	1.65	120	90.5	29.5	187	162	44
BS6824M266 - K61	25.4	1.65	125	96	29	209	180	52
BS6824M416 - K101	38.1	1.65	160	133	27	265	226	60.5
BS6824M516 - K101	50.8	1.65	180	148	32	270	226	60.5



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.