

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 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 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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with
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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 : 35mm and 50mm upto 300
cy/hr.(tested on air, on other fluids
this figure may vary).

- Air Quality : Lubricated/Non-lubricated.
- 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'.

SPECIFICATION TABLE

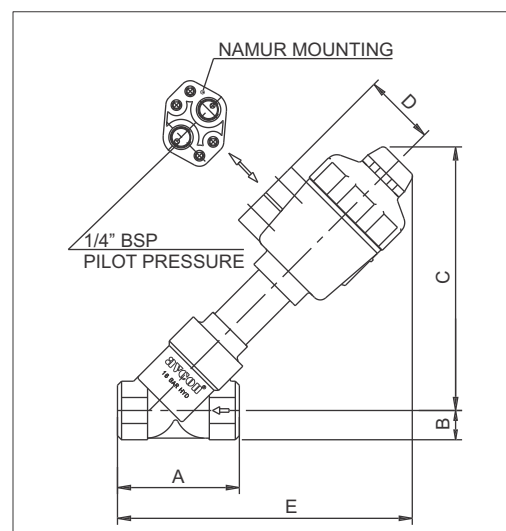
| Catalogue Number | Size BSP(F) | | Orifice Size mm | Flow Factor Kv M ³ /hr | Maximum Pressure bar | Inlet Pressure Over / Under the seat | Body Test Pressure bar | Actuator Type No. | Air consumption Litres /cy. | Weight (Approx.) Kgs. |
|------------------|-------------|----|-----------------|-----------------------------------|----------------------|--------------------------------------|------------------------|-------------------|-----------------------------|-----------------------|
| | 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 - 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 |

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

Water Hammer Free Design

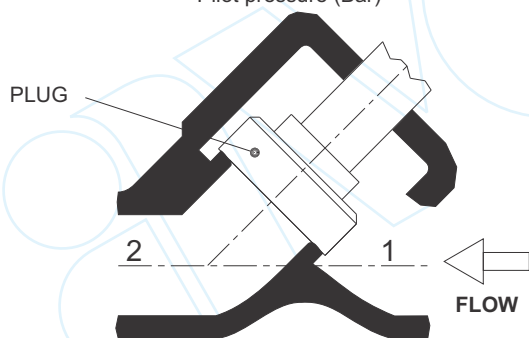
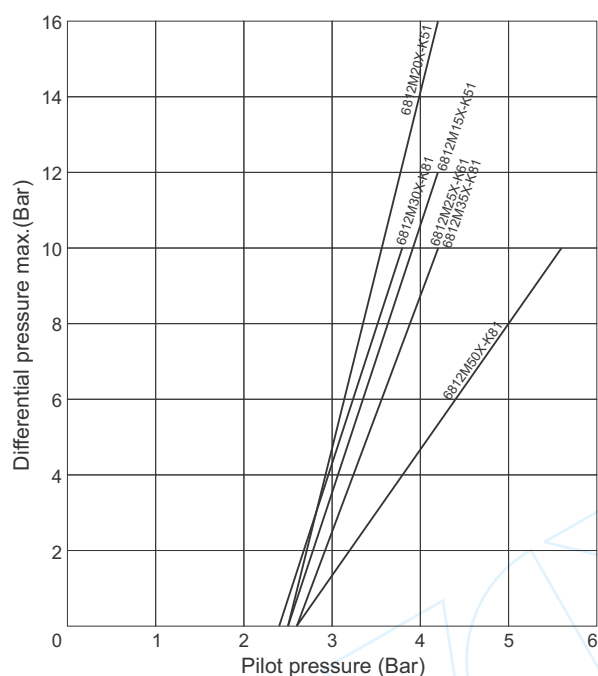
DIMENSIONS (IN MM)

| 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 |
| 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 |



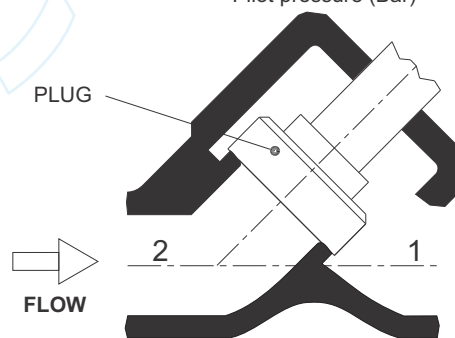
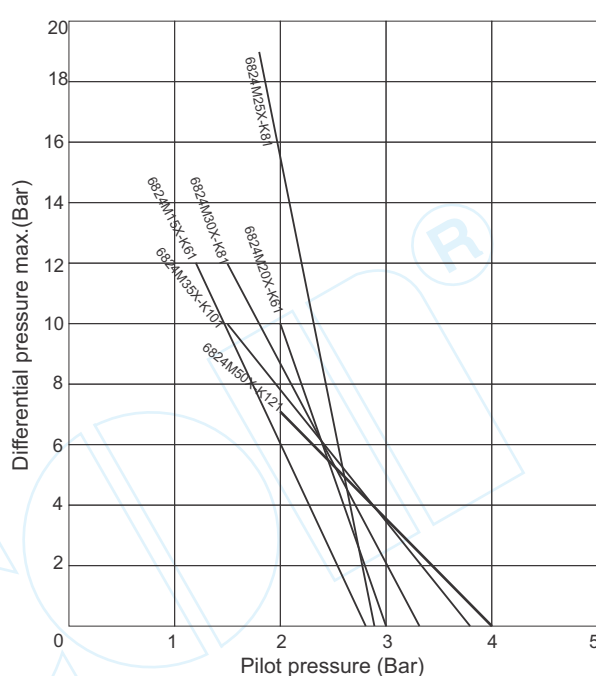
• Open tolerance ± 3 mm all over.

6812M



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

6824M



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.