

3/2-Way Pneumatic Piston Operated Valve for Mixing or Diverting Application with Linear Pneumatic Actuator-Piston Actuator

For On-Off Application (Rust Free Design)

DATA SHEET
6816M-Normally 'A' Port Closed.
6819M-Normally 'B' Port Closed.

SPECIFICATIONS

Sizes	: 15mm (½") to 50mm (2").
CONSTRUCTION	
Body and Bonnet	: Investment casted ASTM A351 CF8(St.St.304)CF8M(St.St.316)
Pressure Temp. Rating	: As per ANSI class 300.
End Connections	: Standard BSP(F) Optional-NPT(F)
Seating	: Soft seated Teflon backed by EPDM. Optional-VITON/EPDM, Buna Nitrile.
Leakage Class	: As per ANSI FCI 70-2, Teflon seating class IV. For other soft seating class VI Drop Tight/Bubble Tight.
Trim	: SS AISI 304/316
Stem Packing	: Self adjusting, Spring loaded PTFE packing.
Characteristics	: On-Off, normally closed / normally open
Working Fluid Pressure	: Refer to table below.
Working Temperature	: On steam- continuous :155°C, Intermittent 180°C, with PTFE seating, Buna Nitrile 80°C, EPDM 135°C, VITON 180°C

ACTUATOR

Spring Return type Engineering Plastic/ S.S. investment casted Pneumatic Actuator.	
Cylinder cover, Body &	: Glass filled polyamide/ S.S. piston investment casted
Piston Packing	: Buna Nitrile.
Actuator Spring	: IS 4454 Grade III, duly painted.
Actuator Working Signal Pressure	: 3.5 to 6 bar (refer to graph)
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).



Life expectancy	: Over one million cycles (lab tested in ideal condition).
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 in process plants.
Back Pressure	: Generally all models are for back pressure upto 2.5 bar. However for specific application where higher back pressure is exceeded, refer to 'AVCON'.

SPECIFICATION TABLE FOR TYPE 6816M & 6819M

Catalogue Number	Size		Orifice Size mm	Flow Factor Kv M ³ /hr.	Maximum Working Pressure		Actuator Model No.	Air Consumption Litres/cys.	Weight Kgs.
	Inch	mm			Water	Steam			
					Bar	Bar			
6816M15 x K51 6819M15 x K51	½	15	15	3.3	16 16	12 12	K-51	0.25	1.30
6816M20 x K61 6819M20 x K61	¾	20	18	4.7	7 16	7 16	K-61	0.25	1.60
6816M25 x K61 6819M25 x K61	1	25	23	8.5	7 16	6 16	K-61	0.25	1.65
6816M35 x K-101 6819M35 x K-101	1 ½	35	36	22.5	8 16	8 16	K-101	0.310	6.20
6816M50 x K-101 6819M50 x K-101	2	50	45	35	8 12	8 12	K-101	0.326	7.90

Note: 6816MXX is Mixing Valve with 'A' Port Closed, Flow 'B' to 'AB' and 6819MXX is Diverting Valve with 'B' Port Closed, Flow 'AB' to 'A'.
6816MXX & 6819MXX cannot be interchange and to be ordered out separately.