

3/2-Way Pneumatic Piston Operated Valves Mixing or Diverting with Plastic Piston Actuator

DATA SHEET
 PV-5816M Normally 'A' Port Closed
 PV-5819M Normally 'B' Port Closed

SPECIFICATIONS

Size : 20 mm (3/4") to 100 mm (4").

CONSTRUCTION

Body : Cast Iron : IS 210 Gr. FG200
 SG Iron- ASTM A536, Gr.60-40-18 (DIN 0.7043)(GGG40.3).
 Cast Steel: ASTM A 216 Gr. WCB
 St.St.: ASTM A 351CF8(SS304), or ASTM A351CF8M(SS316).
 ASTM A351CF8M(SS316).

Pressure Temp. rating. : As per ANSI B 16.5 Class 150.

End Connection : Flanged as per ANSI B 16.5 Class 150.

Trim : St. St. AISI 420/304/316 Ground and hard chrome plated.

Stem Packing : Self adjusting, Spring loaded, Teflon Packing

Plug and Seat : St. St.: AISI 420/304/316

Seating : Soft seated Teflon backed by EPDM. Optional-VITON/EPDM, Buna Nitrile.

Leakage : Soft Seated Class VI , as per ANSI B 16.104-1976.

Characteristics : Mixing or Diverting

Working Fluid Pressure : Refer to table below.

Working Temperature : On steam- continuous :155°C,
 Intermittent 180°C, EPDM 135°C,
 VITON 180°C

ACTUATOR

Spring Return type Plastic Pneumatic Actuator.

Cylinder, cover & piston : Glass filled polyamide.

Piston Packing : Buna Nitrile.

Actuator Spring : IS 4454 Grade III, duly painted.

Act. Wkg. Pres. : 3.5 to 6 bar (refer to graph)

(Signal Pr.)

Operating cycles : Upto 50 mm 300 cy/hr.,(tested on air,on other fluids this figure may vary). For other sizes detail, refer to AVCON.



Life expectancy : Over one million cycles (lab tested in ideal condition.)

Air Quality : Lubricated, filtered and free of moisture. Shop air or dry instrument quality air.

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, gas, steam in textile, power generator, atomic energy, paper & pulp, chemical, petrochemical industries, PSA nitrogen system, air dryers, gas generators and others.

Back Pressure : Suitable upto 2.5 bar.

Instruction manual : Refer to IM 5816M/5819M.

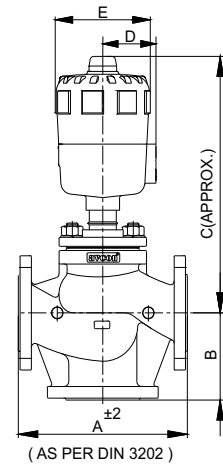
SPECIFICATION TABLE TYPE 5816M Normally 'A' Port Closed.

Catalogue Number	Size	Orifice	Flow Factor Kv	Maximum Pressure in Bar		Actuator Model	Air Consumption	Weight
	mm	mm	M/hr.	Oil/Water/Air	Steam	No.	Lit/Cys.	Kgs.
5816M205	20	20	7	12	10	K-61	0.25	
5816M255	25	25.6	10.5	12	10	K-61	0.25	
5816M305	30			UNDER DEVELOPMENT				
5816M405	40	38	31	7	6	K-81	0.25	
5816M505	50	50	42	6	5	K-101	0.64	
5816M655	65	63	66.5	6	5	K-101	0.64	
5816M805	80	76	95	5	4	K-101	0.64	
5816M1005	100	102	169	4	3	K-101	0.64	
SPECIFICATION TABLE TYPE 5819M Normally 'B' Port closed.								
5819M205	20	20	7	16	10	K-61	0.25	
5819M255	25	25.6	10.5	12	10	K-61	0.25	
5819M305	30			UNDER DEVELOPMENT				
5819M405	40	38	31	10	8	K-81	0.64	
5819M505	50	50	42	10	8	K-101	0.64	
5819M655	65	63	66.5	6	5	K-101	0.64	
5819M805	80	76	95	5	4	K-101	0.64	
5819M1005	100	102	169	4	3	K-101	0.64	

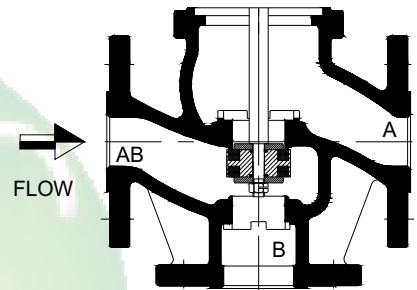
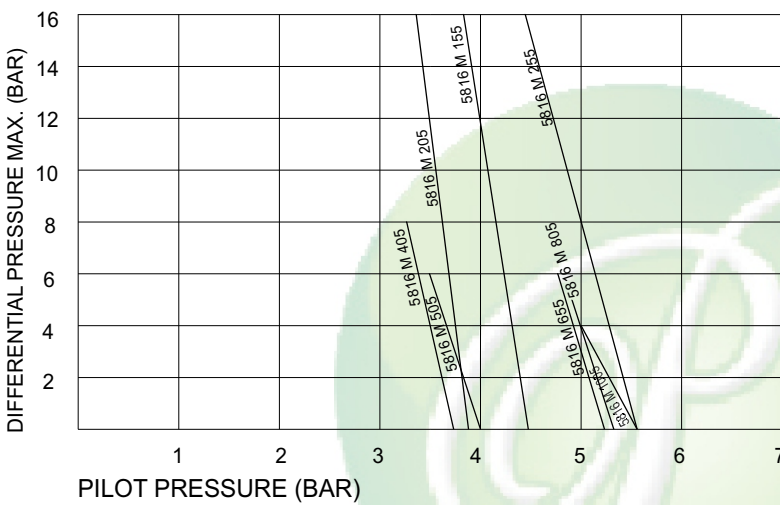
DIMENSIONS (IN MM)

Catalogue Number	Size		Actuator	A	B	C	D	E
	Inch	mm						
58XXM205	3/4	20	K-61	150	70	220	52	80
58XXM255	1	25	K-81	160	75	265	60.5	100
58XXM405	1 ½	40	K-81	200	90	330	73	120
58XXM505	2	50	K-101	230	100	342	73	120
58XXM655	2 ½	65	K-121	290	120	454	87	161
58XXM805	3	75	K-121	310	130	460	87	161
58XXM1005	4	100	K-121	350	150	485	87	161

Combine dimensional table for 5816M and 5819M.

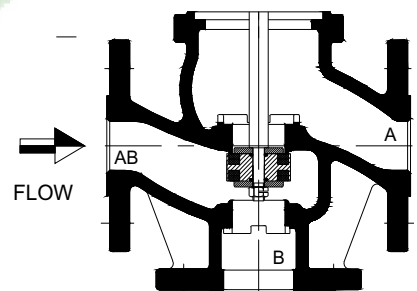
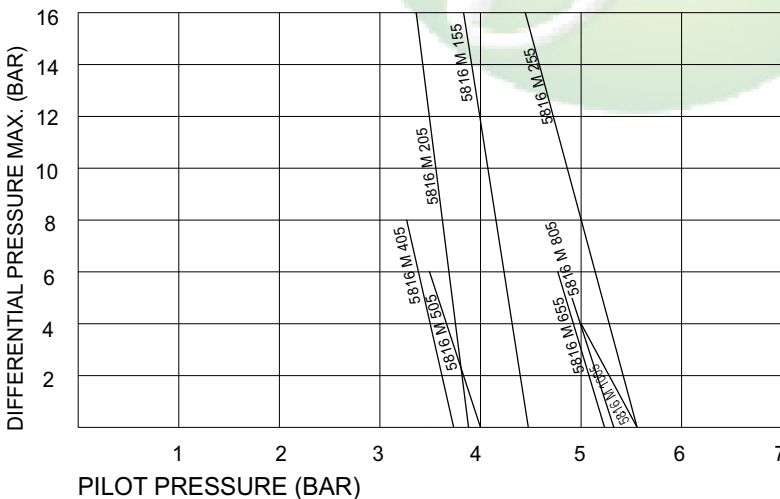


LINE INLET PRESSURE V/S SIGNAL PRESSURE



NORMALLY CLOSE-FLOW OVER THE SEAT
CAT NO. 5816 M

LINE INLET PRESSURE V/S SIGNAL PRESSURE



NORMALLY CLOSE-FLOW OVER THE SEAT
CAT NO. 5819 M

Note:

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