

3/2-Way Straight Body Valve with Pneumatic Actuator for On-Off Application.

Mixing and Diverting application

DATA SHEET
5616 G
5619 G

SPECIFICATIONS:

Size : 20 mm (3/4") to 80 mm (3").

CONSTRUCTION :

Body : SG Iron IS-1865-400/15A. Cast Steel
ASTM A216 Gr. WCB, St. St. ASTM
A351 CF8 (SS304), or ASTM A351
CF8M (SS316).

Press. Temp. Rating : As per ANSI B 16.5 Cl. 150.

End connection : Flanged as per ANSI B 16.5 Cl. 150.

Design Standard : As per ASME B 16.5 Cl.150.

Face to Face : As per DIN-3202 Part 1 Series F1.

Testing Standard : As per IS -6157-1981.

Trim : St. St. AISI 420/316 Ground and
Burnished.

Stem packing : Self adjusting, Spring loaded, Teflon
packing.

Seating : Soft seated PTFE.
Optional-VITON/EPDM, Buna Nitrile.

Leakage : Soft seated Class VI, as per ANSI B16.
104-1976.

Working Fluid Pr. : Refer to table below.

Working Temp. : On Steam-continuous 155°C,
Intermittent 180°C with
Teflon seating, Buna Nitrile
80°C, EPDM 135°C, VITON 180°C.

ACTUATOR:

Spring Return Type Pneumatic Cylinder Actuator.

Cylinder / Cover & Piston : Stainless Steel ASTMA351 (CF8).

Piston Packing : Buna Nitrile.

Actuator Spring : IS 4454 Grade III, duly painted.

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

(Signal Pressure). Inlet pressure depended.

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 /Non-lubricated.

Now available
with
CE/PED



Maximum operating : Refer to graph.

pressure differential

Accessories

: Air lock, valve positioner
Indicating limit switch box,
Solenoid valves, Filter
regulator gauge. Other
accessories available on
application.

Application

: For control of air, water, oil, gas,
steam in textile, power generator,
paper and pulp, chemical, air
dryers, PSA nitrogen system,
gas generator and others.

Back Pressure : Suitable upto 2.5 bar.

Instruction manual : Refer to IM 5616G/5616G.

Note : Use of AVCON Filter Regulator
With Gauge. (Relieving type)
set air pressure not more
than 5.5 bar.

SPECIFICATION TABLE

Catalogue Number	Size		Orifice Size	Flow Factor Kv	Max Pressure	Safe Working Pressure	Actuator Model	Air Consumption
	Inch	mm	mm	M ³ /hr.	bar	bar	CY	Lit/cys.
5616G205 5619G205	3/4	20	20	6.3	10	16	80	0.250
					10			
5616G255 5619G255	1	25	25	10	10	16	100	0.350
					10			
5616G405 5619G405	1 ½	40	40	25	7	16	100	0.350
					10			
5616G505 5619G505	2	50	50	40	6	16	125	0.350
					10			
5616G655 5619G655	2 ½	65	65	63	5.6	16	130	0.735
					10			
5616G805 5619G805	3	80	80	100	5.6	16	130	0.900
					10			

❖ Solenoid valve type R321E, R331E or 9354B20, 9358B20 or R356B020, R358B020 recommended.

❖ Actuator in stainless steel casting.

OPERATION : Valve type 5616 G- In normal condition, 'A' port is closed and 'AB' port is connected to 'B' or 'B' port is connected to 'AB'. On introduction of air in the actuator, 'B' port is closed, 'A' port is connected to 'AB' port.

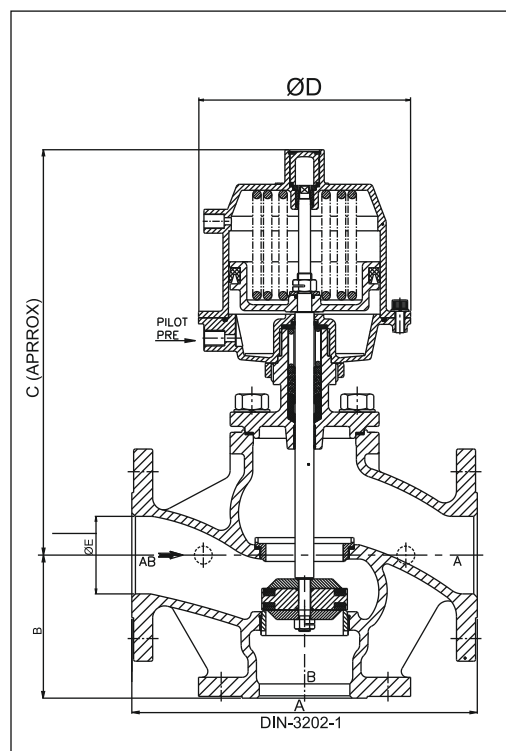
Valve type 5619G-Normally, 'B' port is closed and 'A' port is connected to 'AB' or 'AB' port is connected to 'A'. On receiving signal 'A' port is closed and 'B' port is connected to 'AB' or 'AB' port connected to 'B'.

Mixing : Valves can be used for introducing two different fluids (mixing), through two different ports to common port 'AB'.

Diverting : One fluid coming through port 'AB' can be diverted to 'A', port or 'B' port.

DIMENSIONS IN MM

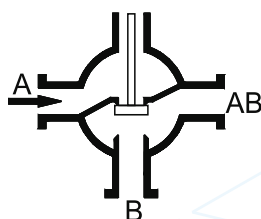
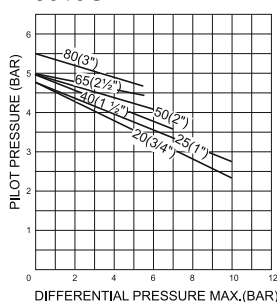
Catalogue Number	Size		A	B	C	ØD	ØE	Weigh kgs.*
	Inch	mm						
5616G205 5619G205	3/4	20	150	70	242	95	20	6
5616G255 5619G255	1	25	160	75	370	110	25	7.5
5616G405 5619G405	1 ½	40	200	90	370	110	38	8.5
5616G505 5619G505	2	50	230	100	395	178	50	26
5616G655 5619G655	2 ½	65	290	120	340	240	65	30
5616G805 5619G805	3	80	310	130	353	240	80	35



• OPEN TOLERANCE ±3mm ALL OVER

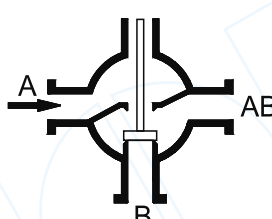
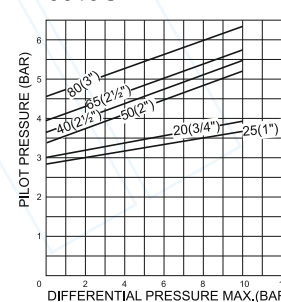
* WEIGHT GIVEN ONLY STANDARD BONNET, CAST STEEL VALVES.

5616G



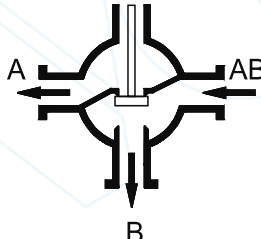
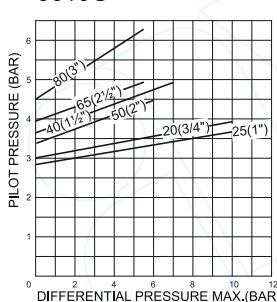
N/O 5616 -'A' at Pressure 'AB' connected to 'B'

5619G



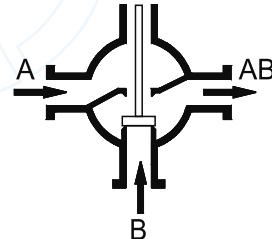
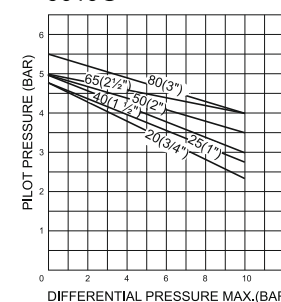
N/O 5619 -Pressure at port 'A' connected to 'AB' - B is closed

5616G



Diverting 5616-Pressure at 'AB' connected to 'B', 'A' port is closed

5619G



Mixing 5619-Pressure at port 'A' connected to 'AB', pressure port 'B' closed

Note:

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

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