

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

DATA SHEET  
5616 G  
5619 G

Mixing and Diverting application

## 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 hard-chrome plated.

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

Seating : Soft seated Teflon backed by EPDM. 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 : Stainless Steel ASTMA351 (CF8).

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.



Maximum operating pressure differential : Refer to graph.  
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, air  
and air dryers, gas generator and  
others.

Back Pressure : Suitable upto 2.5 bar.

Instruction manual : Refer to IM 5612/5622.

Note : Use of AVCON FRG (Relieving  
type) set air pressure not more  
than 5.5 bar.

## SPECIFICATION TABLE

Catalogue Number	Size		Orifice Size mm	Flow Factor Kv M <sup>3</sup> /hr.	Max Pressure bar	Safe Working Pressure bar	Actuator Model CY	Air Consumption Lit/cys.
	Inch	mm						
5616G205 5619G205	3/4	20	20	6.3	10 10	16	80	0.250
5616G255 5619G255	1	25	25	10	10 10	16	100	0.350
5616G405 5619G405	1 ½	40	40	25	7 10	16	100	0.350
5616G505 5619G505	2	50	50	40	6 10	16	125	0.350
5616G655 5619G655	2 ½	65	65	63	5.6 10	16	125	0.735
5616G805 5619G805	3	80	80	100	5.6 10	16	150	0.900

❖ Solenoid valve type 9354 or 9358B020 (2mm port) recommended only.

❖ Actuator in stainless steel casting