

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

DATA SHEET
5612 E
5622 E

SPECIFICATIONS:

Sizes : 15 mm (1/2") to 100 mm (4").

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.

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

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

Plug and Seat : St. St. 304 or 316.

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

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

Characteristics : On-Off, normally close and normally open.

Working Fluid Pr. : Refer to table below.

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

ACTUATOR:

Spring Return Type Pneumatic Actuator.

Actuator Cover : Stainless Steel ASTMA351 (CF8).

Cylinder flange : Stainless Steel ASTMA351 (CF8).

Piston : Steel (Forming).

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).

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).

SPECIFICATION TABLE

Catalogue Number	Size		Orifice Size (mm)	Flow Factor Kv (M ³ /hr.)	Max. Working Pressure (Bar)	Safe Working Pressure (Bar)	Actuator Model (CY)	Air Consumption (Lit/cys.)
	Inch	(mm)						
5612E155 5622E155	1/2	15	15	4	10	16	80	0.350
5612E205 5622E205	3/4	20	20	7	10	16	80	0.350
5612E255 5622E255	1	25	25	10.5	10	16	80	0.350
5612E405 5622E405	1 ½	40	40	23	8	16	100	0.565
5612E505 5622E505	2	50	50	42	8	16	120	0.735
5612E655 5622E655	2 ½	65	65	66.5	6	16	120	0.735
5612E805 5622E805	3	80	80	95	3.5	16	120	0.735
5612E1005 5622E1005	4	100	100	169	3.5	16	120	0.735
5612E1505 5622E1505	6	150	150		3.5	16	120	0.735



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

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.

Sales Point : Full ported flanged valve to give maximum flow, long life, simple in construction.

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 5612E/5622E.