

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	Flow Factor Kv	Max. Working Pressure	Safe Working Pressure	Actuator Model	Air Consumption
No.	Inch	(mm)	(mm)	M ³ /hr.	Bar	Bar	CY	Lit/cys.
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 1/2	40	40	23	8	16	100	0.565
5612E505 5622E505	2	50	50	42	8	16	120	0.735
5612E655 5622E655	2 1/2	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.

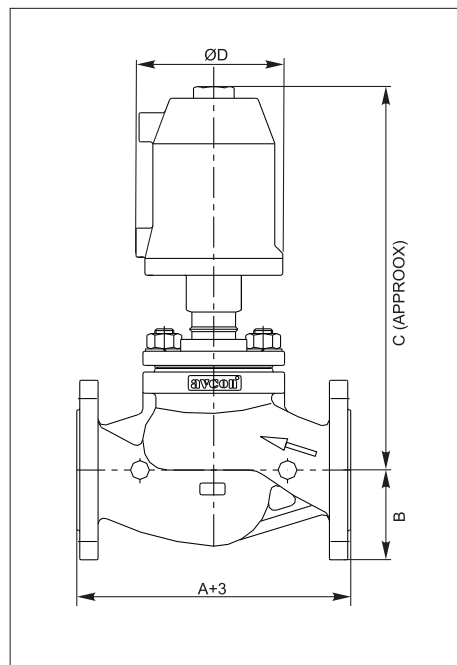
Application : For control of air, water, oil, gas,
steam in textile, power generator,
paper and pulp, chemical, air dryers
PSA nitrogen system, air and air
dryers, gas generator and others.

Back Pressure : Suitable upto 2.5 bar.

Instruction manual : Refer to IM 5612E/5622E.

DIMENSIONS IN MM

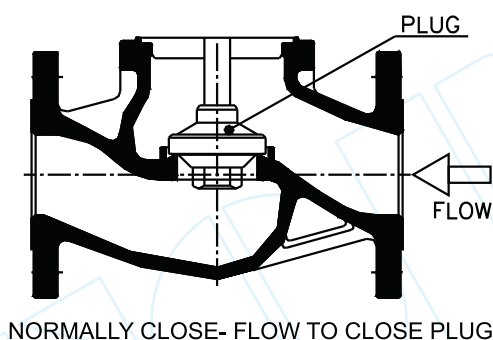
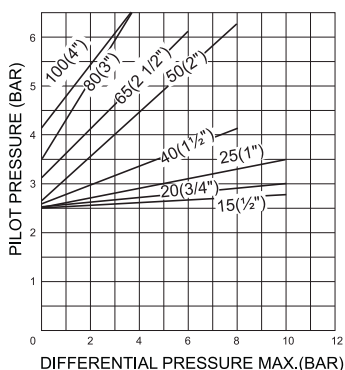
Catalogue Number	Size		A	B	C	ØD	Weight kgs.*
	Inch	mm					
5612E155 5622E155	½	15	130	45	236	95	4
5612E205 5622E205	¾	20	150	49	242	95	5.5
5612E255 5622E255	1	25	160	54	276	95	7
5612E405 5622E405	1 ½	40	200	76	290	110	8
5612E505 5622E505	2	50	230	88	300	150	19
5612E655 5622E655	2 ½	65	290	93	335	150	21
5612E805 5622E805	3	80	310	108	343	150	28
5612E1005 5622E1005	4	100	350	116	360	150	38
5612E1505 5619E1505	6	150					



• OPEN TOLERANCE ± 3 mm ALL OVER

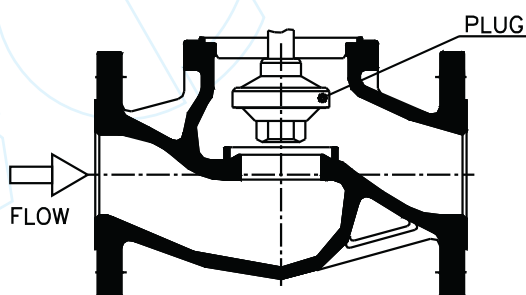
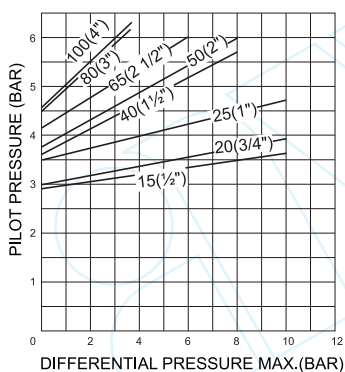
* WEIGHT GIVEN ONLY STANDARD BONNET, CAST STEEL VALVES

5612E



NORMALLY CLOSE- FLOW TO CLOSE PLUG

5622E



NORMALLY CLOSE- FLOW TO OPEN PLUG

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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avcon[®]

Manufactured by:

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