

2/2 Way Pneumatic Piston Operated Normally Closed, Angle Seated Valves,

With Cylinder Actuator for On-Off Application
SCREWED BSP / NPT (F).

DATA SHEET
PV-6612E/6613E/6614E/E6615E
BSP/NPT(F)

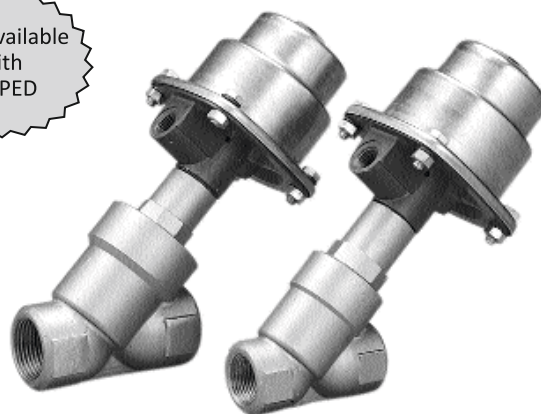
SPECIFICATIONS

Sizes	: 15 mm (1/2") to 80 mm (3")
CONSTRUCTION	
Body and Bonnet	: Investment casted ASTM-A, 351CF8 (St.St. 304) CF8M St.St. 316) & CF3M (St.St.316L).
Pressure Temperature Rating	: As per ANSI class 150.
End Connections	: Standard BSP(F)/ NPT(F)
Seating	: Soft seated Teflon
Optional	: Viton/EPDM/Buna Nitrile.
Leakage	: As per FCI 70-2, Teflon seating class IV. For other soft seating class VI Drop Tight/ Bubble Tight.
Trim	: S.S. AISI 304/316.
Stem Packing	: Self adjusting, Spring loaded Teflon packing.
Characteristics	: On-Off, Normally Closed.
Working Fluid Pressure	: Refer to table below.
Working Temperature	: 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.	
Cylinder Cover	: S.S. AISI 304(deep drawn)
Cylinder Flange	: Pressure die casted, Aluminium Silicon alloy, solution treated and hard anodised.
Piston	: Steel (deep drawn).
Piston Packing	: Buna Nitrile.
Actuator Spring	: IS 4454 Grade III, duly painted.
Actuator Working	: 3.5 to 5.5 bar, (Refer to Graph).
Signal Pressure	
Operating Cycles per hour	: 15mm, 20mm, 25mm upto 600 cy/hr. 35mm and 50mm upto 500 cy/hr.(Tested on Air, on other fluids, this figure may vary).For 65mm and 80mm upto 300 cy/hr.

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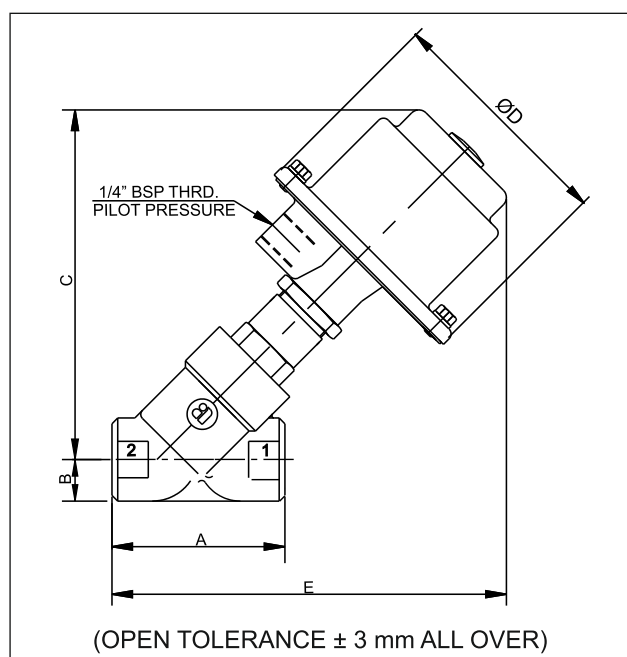
Life Expectancy	: Over one million cycles (lab tested in ideal condition).
Air Quality	: Dry, filtered instrument grade.
Maximum Operating Pressure Differential	: Refer to graph.
Accessory	: Position indicating limit switch box, solenoid valve, filter regulator gauge. Other accessories available on application.
Application	: For control of air, water, oil, gas, steam in textile, power generation, paper & pulp, chemical, petro chemical industries, PSA nitrogen system, air dryer, gas generator and others.
Back Pressure	: All models Max. back pressure 2.5 bar.
Instruction Manual	: Refer to IM 6612/13/14/15E.

SPECIFICATION TABLE NORMALLY CLOSED - (FLOW TO CLOSE, I.E. FLOW OVER THE SEAT)

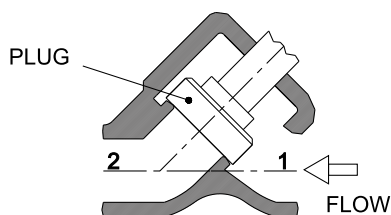
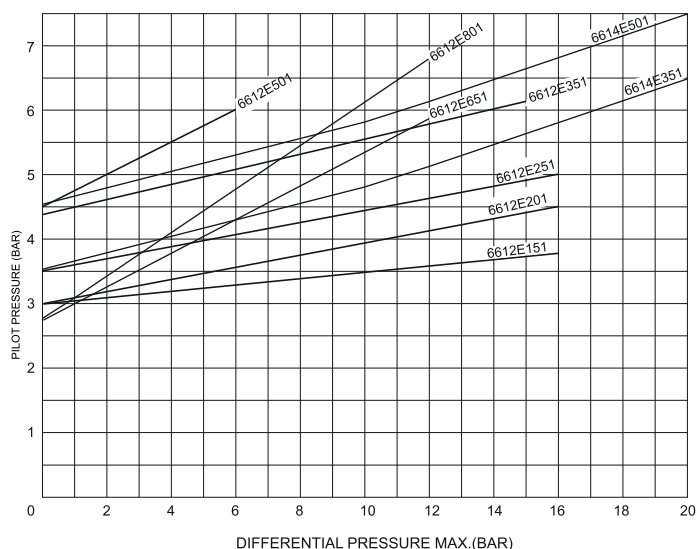
Catalogue Number	Size BSP (F)		orifice Size	Flow Factor Kv	Maximum Working Pressure	INLET POSITION	Safe Working Pressure	Actuator Type	Air Consumption
	Inch	mm	mm	m ³ /hr	bar		bar	Cy	litres/cy
6612E 151	1/2	15	16	4.3	16	FTC	16	70	0.150
6612E 201	3/4	20	16	5.4	16	FTC	16	70	0.150
6612E 251	1	25	23	13.6	16	FTC	16	70	0.160
6612E 351	1½	35	34	31.8	15	FTC	16	70	0.172
6612E 501	2	50	45	54.5	6	FTC	16	70	0.184
6612E 651	2½	65	65	70	12	FTC	18	130	0.772
6612E 801	3	80	76	89	12	FTC	18	130	0.772
NORMALLY CLOSED - (FLOW TO OPEN, I.E. FLOW UNDER THE SEAT)									
6613E 151	1/2	15	16	4.3	16	FTO	16	70	0.150
6613E 201	3/4	20	16	5.4	16	FTO	16	70	0.150
6613E 251	1	25	23	13.6	10	FTO	16	70	0.160
NORMALLY CLOSED - (FLOW TO CLOSE, I.E. FLOW OVER THE SEAT)									
6614E351	1½	35	34	31.8	20	FTC	26	100	0.329
6614E501	2	50	45	54.5	20	FTC	26	100	0.329
NORMALLY CLOSED - (FLOW TO OPEN, I.E. FLOW UNDER THE SEAT)									
6615E 351	1½	35	34	31.8	16	FTO	16	100	0.329
6615E 501	2	50	45	54.5	10	FTO	16	100	0.329
6615E 651	2½	65	65	70	5	FTO	18	130	0.772
6615E 801	3	80	76	89	5	FTO	18	130	0.772

DIMENSIONS (IN MM)

CATALOGUE NUMBER	SIZE		A	B	C	D	E	WEIGHT (Kgs)
	Inch	mm						
6612 E 151	1/2	15	63.5	16.8	155	103.5	174	1.360
6612 E 201	3/4	20	75.0	18.0	160	103.5	180	1.510
6612 E 251	1	25	90.0	21.5	165	103.5	190	1.820
6612 E 351	1½	35	125.0	29.0	180	103.5	216	2.580
6612 E 501	2	50	150.0	35.0	190	103.5	235	3.490
6612 E 651	2½	65	183.5	44	370	178	395	6.0
6612 E 801	3	75	220	50	393	178	435	6.5
6613 E 151	1/2	15	63.5	16.8	155	103.5	174	1.360
6613 E 201	3/4	20	75.0	18	160	103.5	180	1.510
6613 E 251	1	25	90.0	21.5	165	103.5	190	1.820
6614 E 351	1½	35	125.0	29.0	190	138	268	3.0
6614 E 501	2	50	150.0	35.0	200	138	285	3.8
6615 E 351	1½	35	125.0	29.0	190	138	268	3.0
6615 E 501	2	50	150.0	35.0	200	138	285	3.8
6615 E 651	2½	65	183.5	44	370	178	395	6.0
6615 E 801	3	75	220	50	393	178	435	6.5

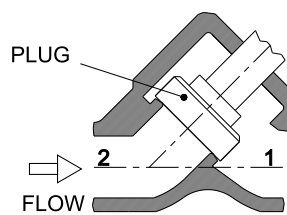
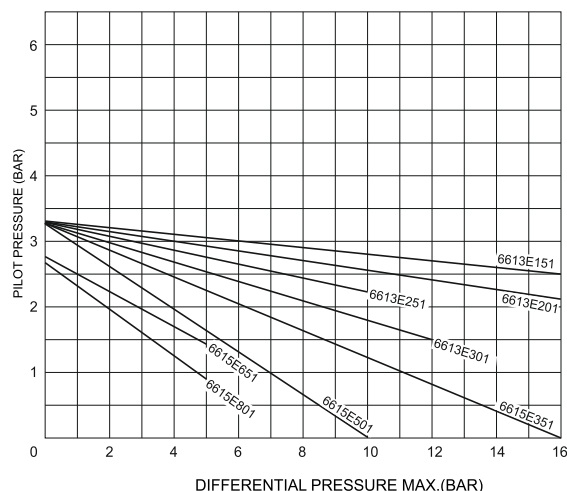


6612E / 6614E



NORMALLY CLOSED-FLOW TO CLOSE PLUG
CAT. NO. 6612E/6614E(FTC)

6613E/6615E



NORMALLY CLOSED-FLOW TO OPEN PLUG
CAT. NO. 6613E/6615E (FTO)

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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