

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

With Cylinder Actuator for On-Off Application
FLANGED DESIGN.

DATA SHEET
PV-6612E/6613E/6614E/6615EXX5
FLG

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	: As per ANSI class 150.
End Connections	: Flanged to ANSI Class 150.
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	: 15mm, 20mm, 25mm upto 600 hour cy/hr. 30mm to 80mm upto 500 cy/hr.(tested on Air, on other fluids, this figure may vary).For 65mm and 80mm upto 300 cy/hr.
Life Expectancy	: Over one million cycles (lab

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Air Quality	: tested in ideal condition).
Maximum Operating	: Dry, filtered instrument grade.
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 6612E/6613E/6614E/ 6615EXX5.

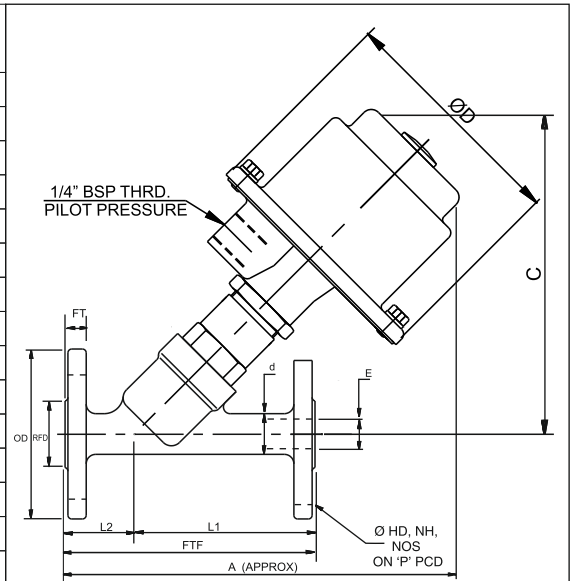
SPECIFICATION TABLE

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

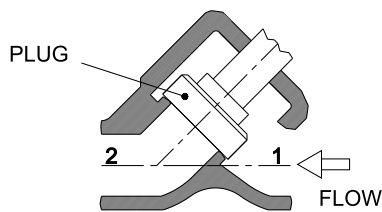
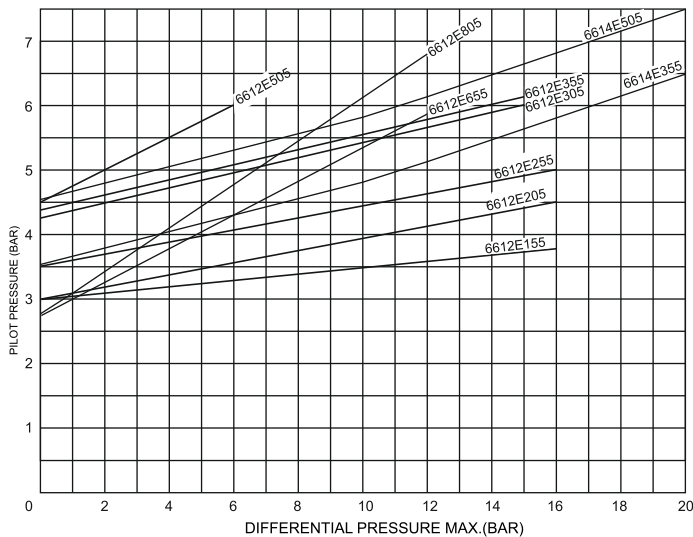
Catalogue Number	Size		orifice Size	Flow Factor Kv	Maximum Working Pressure	INLET POSITION	Safe Working Pressure	Actuator Type	Air Consumption
	BSP (F)								
	Inch	mm	mm	m ³ /hr	bar		bar	Cy	litres/cy
6612E 155	1/2	15	16	4.3	16	FTC	16	70	0.150
6612E 205	3/4	20	16	5.4	16	FTC	16	70	0.150
6612E 255	1	25	23	13.6	16	FTC	16	70	0.160
6612E 305	1 1/2	30	34	31.8	15	FTC	16	70	0.172
6612E 355	1 1/2	35	34	31.8	15	FTC	16	70	0.172
6612E 505	2	50	45	54.5	6	FTC	16	70	0.184
6612E 655	2 1/2	65	65	70	12	FTC	18	130	0.772
6612E 805	3	80	76	89	12	FTC	18	130	0.772
NORMALLY CLOSED - (FLOW TO OPEN, I.E. FLOW UNDER THE SEAT)									
6613E 155	1/2	15	16	4.3	16	FTO	16	70	0.150
6613E 205	3/4	20	16	5.4	16	FTO	16	70	0.150
6613E 255	1	25	23	13.6	10	FTO	16	70	0.160
6613E 355	1 1/2	35	34	31.8	12	FTO	16	70	0.160
NORMALLY CLOSED - (FLOW TO CLOSE, I.E. FLOW OVER THE SEAT)									
6614E355	1 1/2	35	34	31.8	20	FTC	26	100	0.329
6614E505	2	50	45	54.5	20	FTC	26	100	0.329
NORMALLY CLOSED - (FLOW TO OPEN, I.E. FLOW UNDER THE SEAT)									
6615E 355	1 1/2	35	34	31.8	16	FTO	16	100	0.329
6615E 505	2	50	45	54.5	10	FTO	16	100	0.329
6615E 655	2 1/2	65	65	70	5	FTO	18	130	0.772
6615E 805	3	80	76	89	5	FTO	18	130	0.772

DIMENSIONS (IN MM)

Model	SIZE		FTF	L2	L1	d	D	E	FT	NH	HD	P	OD	C	A
	Inch	mm													
6612E155	1/2	15	130	25	105	21.3	103.5	15	11.6	4	15.8	60.3	90	155	182
6612E205	3/4	20	150	37	113	26.9	103.5	20	13.2	4	15.8	69.9	100	160	187
6612E255	1	25	160	32	128	33.7	103.5	25	14.7	4	15.8	79.4	110	165	209
6612E305	1 1/4	30	180	41	140	42.4	103.5	32	16.3	4	15.8	88.9	115	172	265
6612E355	1 1/2	35	200	47	153	48.3	103.5	40	17.9	4	15.8	98.4	125	180	270
6612E505	2	50	230	71	159	60.3	103.5	50	19.5	4	19.05	120.7	150	190	277
6612E655	2 1/2	65	290	52	238	64	178	55.5	22.7	4	19.05	139.7	180	370	395
6612E805	3	80	310	57.5	252.5	76.2	178	68.2	24.3	4	19.05	152.4	190	393	435
6613E155	1/2	15	130	25	105	21.3	103.5	15	11.6	4	15.8	60.3	90	155	182
6613E205	3/4	20	150	37	113	26.9	103.5	20	13.2	4	15.8	69.9	100	160	187
6613E255	1	25	160	32	128	33.7	103.5	25	14.7	4	15.8	79.4	110	165	209
6613E305	1 1/4	30	180	40	140	42.2	103.5	38.2	16.3	4	15.8	88.9	115	172	265
6614E355	1 1/2	35	200	47	153	48.3	138	40	17.9	4	15.8	98.4	125	190	190
6614E505	2	50	230	71	159	60.3	138	50	19.5	4	19.05	120.7	150	200	200
6615E355	1 1/2	35	200	47	153	48.3	103.5	40	17.9	4	15.8	98.4	125	270	270
6615E505	2	50	230	71	159	60.3	103.5	50	19.5	4	19.05	120.7	150	277	277
6615E655	2 1/2	65	290	52	238	64	178	55.5	22.7	4	19.05	139.7	180	370	395
6615E805	3	80	310	57.5	252.5	76.2	178	68.2	24.3	4	19.05	152.4	190	393	435

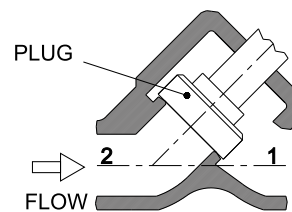
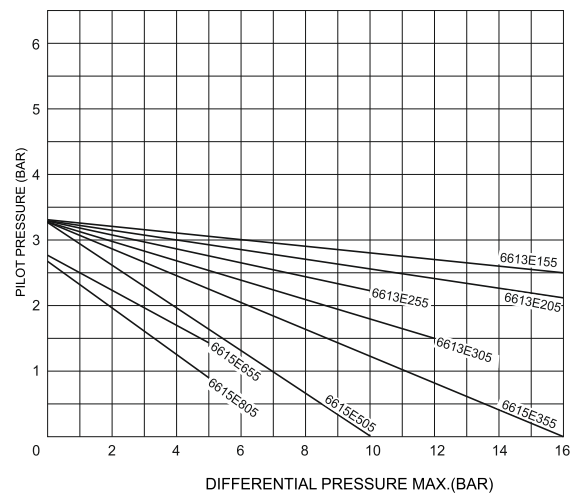


6612E / 6614E



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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