

# 2/2 Way Pneumatic Piston Operated Normally Open, Angle Seated Valves,

With Cylinder Actuator for On-Off Application  
FLANGED DESIGN.

DATA SHEET  
PV-6622E/6623E/6624E/6625EXX5  
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 Rating : 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 Signal Pressure : 3.5 to 5.5 bar, (Refer to Graph).

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 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 6622E/6623E/6625E.

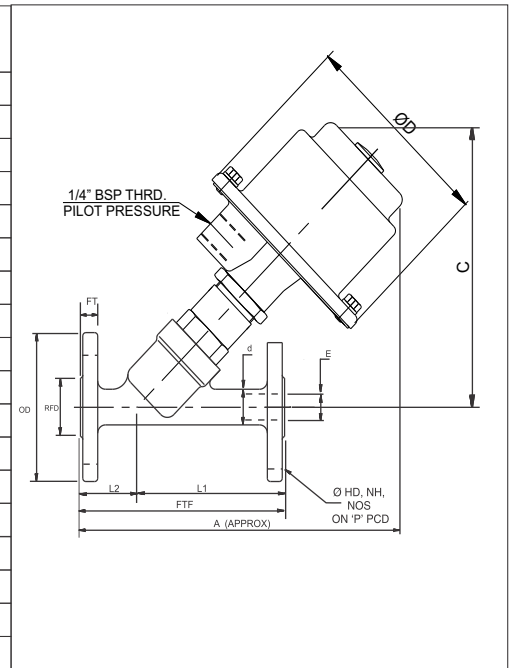
## SPECIFICATION TABLE

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

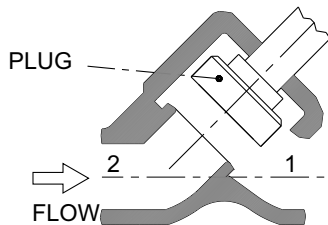
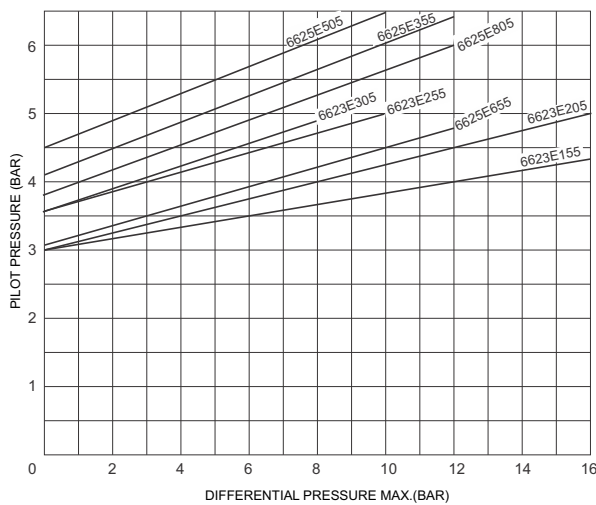
Catalogue Number	Size BSP (F)		orifice Size mm	flow Factor Kv m <sup>3</sup> /hr	Maximum Working Pressure bar	INLET POSITION	Safe Working Pressure bar	Actuator Type Cy	Air Consumption litres/cy
	Inch	mm							
6622E 155	1/2	15	16	4.3	16	FTC	16	70	0.150
6622E 205	3/4	20	16	5.4	16	FTC	16	70	0.150
6622E 255	1	25	23	13.6	16	FTC	16	70	0.160
6622E 305	1 ¼	30	34	31.8	15	FTC	16	70	0.172
6622E 355	1½	35	34	31.8	15	FTC	16	70	0.172
6622E 505	2	50	45	54.5	6	FTC	16	70	0.184
6622E 655	2½	65	65	70	12	FTC	18	130	0.772
6622E 805	3	80	76	89	12	FTC	18	130	0.772
NORMALLY OPEN - (FLOW TO OPEN, I.E. FLOW UNDER THE SEAT)									
6623E 155	½	15	16	4.3	16	FTO	16	70	0.150
6623E 205	3/4	20	16	5.4	16	FTO	16	70	0.150
6623E 255	1	25	23	13.6	10	FTO	16	70	0.160
6623E 305	1 ¼	30	34	31.8	8	FTO	16	70	0.160
NORMALLY OPEN - (FLOW TO CLOSE, I.E. FLOW OVER THE SEAT)									
6624E355	1½	35	34	31.8	16	FTC	16	100	0.329
6624E505	2	50	45	54.5	10	FTC	16	100	0.329
NORMALLY OPEN - (FLOW TO OPEN, I.E. FLOW UNDER THE SEAT)									
6625E 355	1½	35	34	31.8	12	FTO	16	100	0.329
6625E 505	2	50	45	54.5	10	FTO	16	100	0.329
6625E 655	2½	65	65	70	5	FTO	18	130	0.772
6625E 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													
6622E155	1/2	15	130	25	105	21.3	103.5	15	11.6	4	15.8	60.3	90	157	182
6622E205	3/4	20	150	37	113	26.9	103.5	20	13.2	4	15.8	69.9	100	162	187
6622E255	1	25	160	32	128	33.7	103.5	25	14.7	4	15.8	79.4	110	180	209
6622E305	1 1/4	30	180	41	140	42.4	103.5	32	16.3	4	15.8	88.9	115	226	265
6622E355	1 1/2	35	200	47	153	48.3	103.5	40	17.9	4	15.8	98.4	125	226	270
6622E505	2	50	230	71	159	60.3	103.5	50	19.5	4	19.05	120.7	150	230	277
6622E655	2 1/2	65	290	52	238	64	178	55.5	22.7	4	19.05	139.7	180	370	395
6622E805	3	80	310	57.5	252.5	76.2	178	68.2	24.3	4	19.05	152.4	190	393	435
6623E155	1/2	15	130	25	105	21.3	103.5	15	11.6	4	15.8	60.3	90	157	182
6623E205	3/4	20	150	37	113	26.9	103.5	20	13.2	4	15.8	69.9	100	162	187
6623E255	1	25	160	32	128	33.7	103.5	25	14.7	4	15.8	79.4	110	180	209
6623E305	1 1/4	30	180	40	140	42.2	103.5	38.2	16.3	4	15.8	88.9	115	180	265
6624E355	1 1/2	35	200	47	153	48.3	138	40	17.9	4	15.8	18.4	125	230	270
6625E355	1 1/2	35	200	47	153	48.3	103.5	40	17.9	4	15.8	98.4	125	226	270
6625E505	2	50	230	71	159	60.3	103.5	50	19.5	4	19.05	120.7	150	230	277
6625E655	2 1/2	65	290	52	238	64	178	55.5	22.7	4	19.05	139.7	180	370	395
6625E805	3	80	310	57.5	252.5	76.2	178	68.2	24.3	4	19.05	152.4	190	393	435

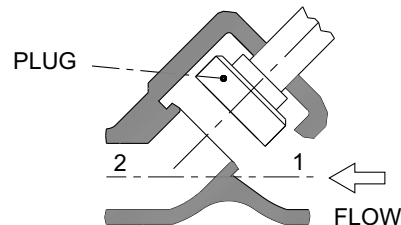
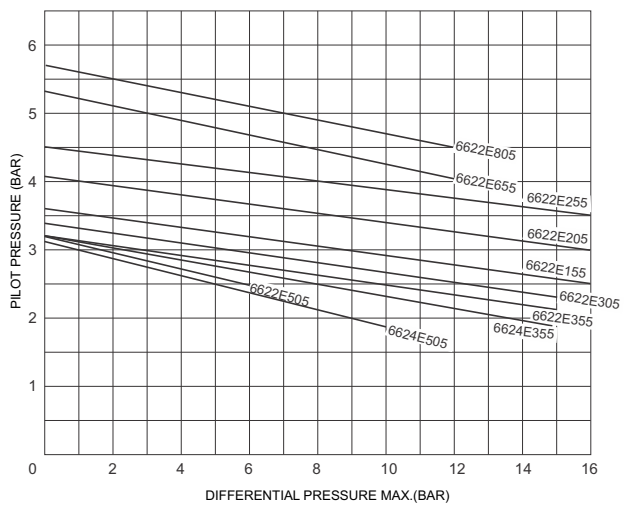


6623E/6625E



NORMALLY OPEN-FLOW TO OPEN PLUG  
CAT. NO. 6623E/6625E  
(FTO)

6622E/6624E



NORMALLY OPEN-FLOW TO CLOSE PLUG  
CAT. NO. 6622E / 6624E  
(FTC)

**Note:**

Technical specifications, details & dimensions are subject to change without prior notice. Dimensions in the table are approximate subject to final confirmation by AVCON.