

3/2 Way Pneumatic Piston Operated **Mixing or Diverting Valves**

With Cylinder Actuator, For On-Off Application (Rust Free Design)

DATA SHEET 6616E-NORMALLY 'A' PORT CLOSED 6619E-NORMALLY 'B' PORT CLOSED

SPECIFICATIONS

Sizes CONSTRUCTION : 15 mm (1/2") to 50 mm (2")

Body and Bonnet

: Investment casted ASTM-A, 351CF8 (St.St. 304) CF8M

St.St. 316).

Pressure Temperature : As per ANSI class 300.

End Connections : Standard BSP(F)/ NPT(F). Seating : Soft seated Teflon backed by

EPDM. Optional-VITON /EPDM,

Buna Nitrile.

: As per ANSI B16.104 - 1976 Leakage

> 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/normally

open.

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.

: IS 4454 Grade III, duly painted. **Actuator Spring Actuator Working** : 3.5 to 6 bar, (refer to graph).

Signal Pressure

Operating Cycles per

: 15mm, 20mm, 25mm upto 600

cy/hr. 35mm and 50mm upto300 cy/hr. (tested on air, on other fluids, this figure may vary).

Life Expectancy

Maximum Operating

Application

Pressure Differential

Accessory

Air Quality

Position indicating limit switch box,

solenoid valve, filter regulator gauge. Other accessories available on application.

Refer to graph.

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

: Over one million cycles (lab

tested in ideal condition).

Lubricated /Non-lubricated.

and in process plants.

Back Pressure Refer to table below or 2.5 bar. Instruction Manual : Refer to IM 6616E/6619E.

SPECIFICATION TABLE

Catalogue Number	Size BSP (F)		orifice Size	flow Factor Kv	Maximum* Working Pressure	Safe Working Pressure	Actuator Type	Air Consumption
	Inch	mm	mm	m³/hr	bar	bar	Су	litres/cy
6616E 15 6619E 15	1/2	15	15	3.3	10	16	70	0.150
6616E 20 6619E 20	3/4	20	18	4.7	10	16	70	0.150
6616E 25 6619E 25	1	25	23	8.5	10	16	70	0.160
6616E 35 6619E 35	1½	35	36	22.5	10	16	100	0.310
6616E 50 6619E 50	2	50	45	35.0	7	16	100	0.326

^{*} Inlet Pressure at 'A' port or 'B' port.

