

# PV-16 3/4" Pneumatic PFA 3 Way Valve

## Product Overview

The PV-16 PFA diaphragm valve is designed for use in high purity semiconductor applications, and is also ideally suited for ultra-pure water and aggressive chemical or gas applications. The design utilizes a molded high purity PFA body with precision machined seat and diaphragm sealing areas. A one piece machined modified PTFE diaphragm is also utilized for excellent flexibility and life. A full 3/4" orifice provides maximum flow capability in a compact package.

## Features

**One piece precision machined diaphragm manufactured from the latest technology modified PTFE. Provides over five times the flexural life as compared to conventional PTFE. Tongue and groove seat and diaphragm for positive through flow shut off and diaphragm to body seal.**

**Halar coated stainless steel spring.**

## Benefits

**High cycle life.**

**Lower replacement costs.**

**Less downtime.**

**Reduces effects of corrosive environments.**



## Specifications

### Materials of Construction

Wetted: PFA, Modified PTFE

Non-wetted: PVDF, Viton, PTFE coated SS spring

### Pressure Ranges

0 - 120 PSIG (8.3 bar) See Cracking Pressure Chart on next page.

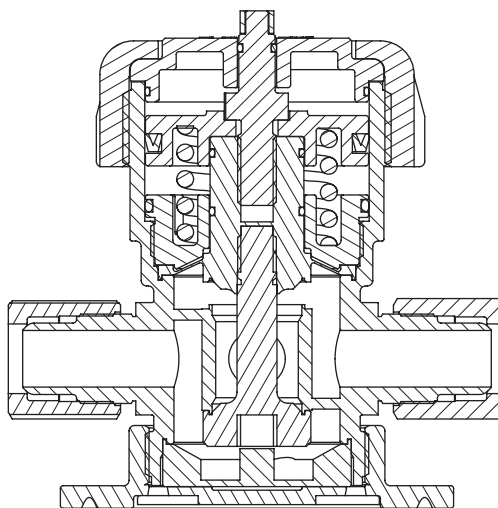
Actuation: 60 PSIG (4.1 bar) - 120 PSIG (8.3 bar)

Pressure ranges for operation at ambient temperatures. For use at higher temperatures consult Pressure/Temperature chart on page 3.

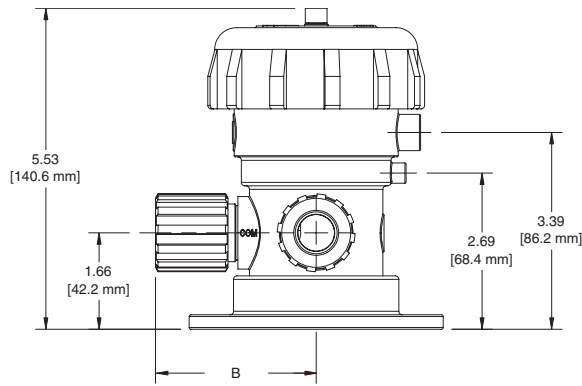
### Temperature Ranges

Ambient: 0° - 150° F (-17° - 66° C)

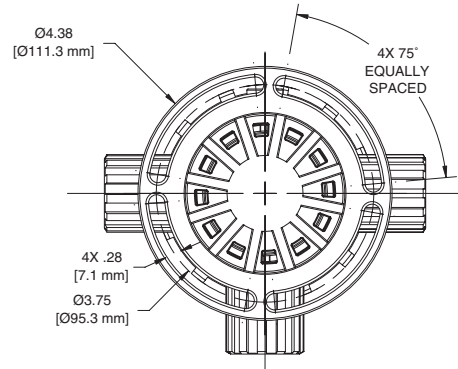
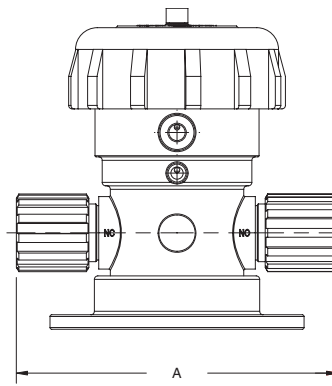
Fluid: 0° - 266° F (-17° - 130° C)



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BRACKETED DIMENSIONS  
ARE IN mm.



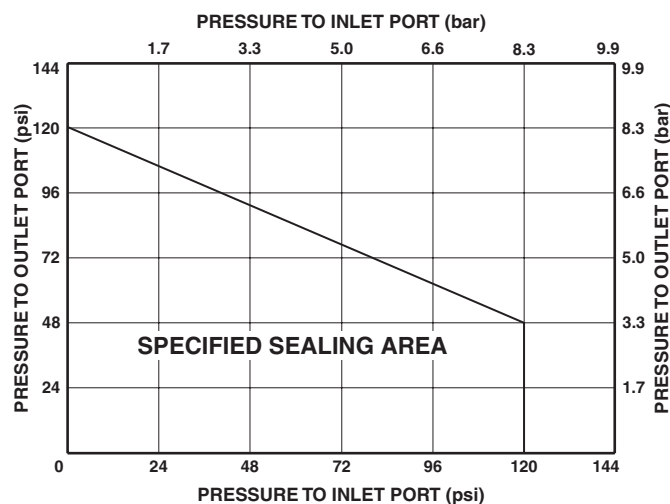
AIR PORT CONNECTION, 1/8" FNPT  
TEST PORT CONNECTION, 1/4-28 UNF

Model Number	Cv	Kv	Flow Configuration	Port Configuration	Dimensions	
					A	B
PV-16-3612	5.4	77.0	3 WAY COM NC NO	3/4" Parflare	5.54" [140.72 mm]	2.81" [71.37 mm]
PV-16-3612-01	5.4	77.0		3/4" Parflare Long	6.48" [164.59 mm]	2.81" [71.37 mm]
PV-16-3616	7.3	104.1		1" Parflare*	9.12" [231.65 mm]	4.56" [115.82 mm]
PV-16-3712	7.3	104.1		3/4" Parbond	5.90" [149.86 mm]	2.95" [74.93 mm]
PV-16-4612	5.4	77.0	3 WAY Reversed Ports NO COM NC	3/4" Parflare	5.54" [140.72 mm]	2.81" [71.37 mm]
PV-16-4612-01	5.4	77.0		3/4" Parflare Long	6.48" [164.59 mm]	2.81" [71.37 mm]
PV-16-4616	7.3	104.1		1" Parflare*	9.12" [231.65 mm]	4.56" [115.82 mm]
PV-16-4712	7.3	104.1		3/4" Parbond	5.90" [149.86 mm]	2.95" [74.93 mm]

Parflare model numbers are supplied with PVDF nuts. Also available with PFA (-T) nuts.

\*Ends are fused on.

## CRACKING PRESSURE



## PRESSURE DROP VS. FLOW RATE

