

# PV-11 1/2" Pneumatic Adjustable Bypass Valve

## Product Overview

The PV-11 Adjustable Bypass Valve is designed for use in ultra-pure water applications. The design utilizes a molded high purity PFA body with precision machined seats. A machined modified PTFE diaphragm is also utilized for excellent flexibility and life. The integral bypass valve prevents the stagnation and deadheading of media in an ultra-pure water system.



## Features

**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.**

**PVDF coated stainless steel spring.**

**Bypass integral to valve body to prevent stagnation of ultra-pure water.**

**Modified flow configurations with numerous end connections including Parflare available.**

## Benefits

**High cycle life.**

**Lower replacement costs.**

**Less downtime.**

**Reduces effects of corrosive environment.**

**Prevents contamination of media.**

**Reduces connections, mounting space, and overall cost.**

## Specifications

### Materials of Construction

Wetted: PFA, Modified PTFE

Non-wetted: PFA, PVDF, Viton seals, PTFE coated SS springs

### Pressure Ranges

Forward: 27" HG vacuum (913 mbar) to 80 PSIG (5.5 bar) with 20 PSIG (1.4 bar) maximum back pressure

Backward: 27" HG vacuum (913 mbar) to 80 PSIG (5.5 bar) with 50 PSIG (3.4 bar) maximum back pressure

Actuator: 60 PSIG (4.2 bar) to 100 PSIG (7 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)

