

Pressure Reducing Valve Type 582



General

- **Size:** 3/8"–2"
- **Material:** PVC, CPVC, PROGEF® Standard PP, SYGEF® Standard PVDF
- **Bonnet:** Glass-filled PP
- **Diaphragm:** PTFE/EPDM
- **Seals:** EPDM, FPM, PTFE
- **End Connection:** Solvent cement socket, threaded, flanged, fusion spigot, fusion socket
- **Mounting:** Stainless steel threaded inserts
- **Set Pressure Range:** 7-130psi
- **Hysteresis:** Approx. 1.5–5.8 psi
- **Standard Pack Quantity:** 1 valve

Key Certifications

- **FDA CFR 21 177.1520:** PP and PVDF
- **FDA CFR 21 177.2600:** EPDM and FPM
- **FDA CFR 21 177.1550:** PTFE
- **USP 25 Class VI (physiological non-toxic):** PP and PVDF
- **ABS:** All materials

Sample Specification

The Type 582 Pressure Reducing Valve shall control downstream pressure. The set pressure shall be controlled via an adjustment screw. The body shall be fully molded. The spindle shall be of non-rising design. The bonnet connection shall be of threaded design. Versions utilizing elastomeric cartridge seals shall be positive shutoff. Versions utilizing PTFE cartridge seals be leakage class C according to DIN EN1226-1. The seal material shall be indicated by the color of an external tab. ANSI versions shall meet ANSI B16.5 150lb standards. All valves shall be tested in accordance to ISO9393. All valves shall be manufactured under ISO9001 for Quality and ISO14001 for Environmental Management. Following assembly, every valve shall be tested and certified bubble tight exceeding Class VI standards.

Important Note

- Minimum of 15psi differential pressure required to ensure proper functionality.

Material Specification

PVC valves shall meet ASTM D1784 cell classification 12454 standards. CPVC valves shall meet ASTM D1784 cell classification 23447-B standards. PP valves shall meet ASTM D5847-14 cell classification PP0510B66851 standards. PVDF valves shall be type 1, grade 2 according to ASTM D3222 standards. Valves of all materials shall be RoHS compliant.

Valve Function

The pressure reducing valve reduces the line pressure to a set value on the valve outlet. The outlet pressure is in no direct relation to the inlet pressure. Independent of raising or falling inlet pressure, the outlet pressure stays constant.

Key Design Feature

Fully Molded

The Type 582 Valve Body is fully molded, providing several performance benefits. Machining bodies can create sharp corners at high stress points that can lead to stress cracking. The flow characteristics between two like machined bodies can differ significantly because of small dimensional inconsistencies and true union connections often require additional fusions which increases the number of leak paths in a given valve. The Type 582 eliminates all of these issues to provide consistent performance with a variety of end connection options.



Optional Features

- **Gauge:** SS304, Brass
- **Gauge Guard:** PVDF/EPDM, PVDF/FPM
- **End Connection:** Alternatives available upon request
- **Set Pressure Range:** 4-44psi
- **Cleaned:** Silicone free/oil free
- **High Purity:** Elastomeric version with positive shutoff

Material Availability

- $\frac{3}{8}$ " (d16) - PVC metric spigot (adapter unions available)
- $\frac{1}{2}$ "-2" (d20-d63) - All material/end connections



Optional Feature

Pressure Gauges

- A pressure gauge can be mounted on either side of the valve to accommodate required installation direction and ensure gauge visibility. The two sides of the valve are differentiated by a letter molded into each side of the valve as shown below, side A flow going left to right and side B flow going right to left.
- Standard gauges are 304 stainless steel or brass with either EPDM or FPM elastomeric seals.
- Alternative gauges of the user's preference can be installed upon request either with a threaded adapter or direct mount.
- All valve bodies can accommodate two gauges at a time and both sides can be drilled to measuring either upstream or downstream pressure.



