

Diaphragm Pressure Regulator

- Material:** PVC, PP, PVDF, TEFLON
- Size:** 1/4" - 2"
- Pressure Rating:** 150 psi
- Upstream Pressure:** Vacuum to 150psig
- Regulated Pressure:** 1 to 100 psig (1/4") 5 to 100 psig (1/2" - 2")
- Seals:** EPDM, VITON, KALREZ
- Connections:** FNPT Threaded (1/4" - 1")
MPT Threaded (1 1/2" - 2")
- Mounting:** 1/4-20 tapped holes (1/4" - 1")



ISO 9002 CERTIFIED

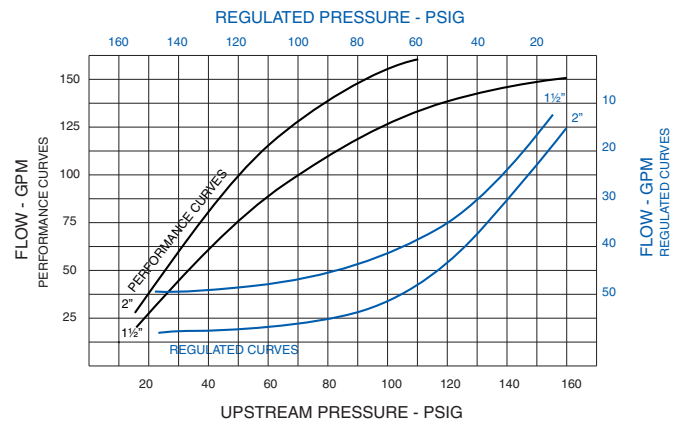
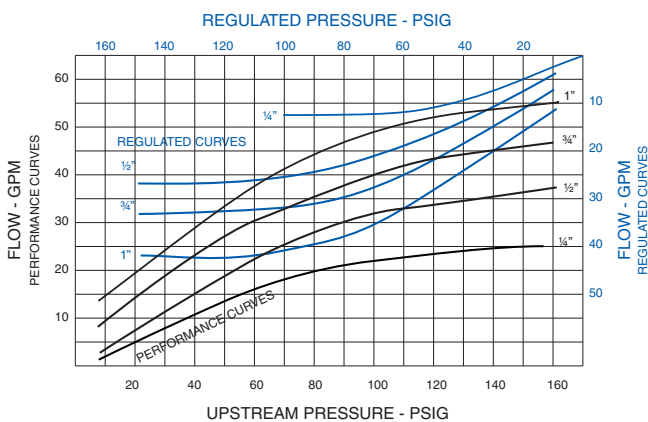
Engineering Guide Specification

Materials of Construction:

- PVC:** Class 12454B per ASTM D1784
- PP:** Class PP 110B76383 per ASTM D4101
- PVDF:** Type 1 per ASTM D3222

Guide Specification: The SIMTECH DPR Series diaphragm pressure regulator is designed to be more sensitive to pressure changes while protecting piping systems. This pressure reducing valve is designed to provide excellent flow ratios over a wide pressure range. Teflon (primary) and EPDM (back-up) diaphragms are ideal for DI water or other ultra pure applications. Adjustable screw and lock-nut makes pre-set downstream pressure more precise and accurate. Wide working pressure range (5 to 100 PSIG) Top entry and parallel inlet and outlet ports to facilitate installation and avoid piping problems. This compact pressure reducing valve is designed to keep the stainless steel spring totally isolated from the fluid chamber insuring no metal contact with the fluid. It is ideally suitable for most harsh chemicals, DI water, and other high purity applications.

Pressure/Temperature Graph: Working PSI/Fahrenheit



Performance curves show the flow rate of DPR valves with piston seal fully open. Regulated curves show the flow rate of DPR valves at the points of pre-set downstream pressure. Test data was performed with 68°F water, and 160 psig maximum pressure.

These performance curves will be changed with higher viscosity liquid and/or higher temperature. Consult manufacturer directly for custom products or special applications.

Dimensional Data

Nom. Size	A	B	C	C _v
1/4"	1.60	2.10	0.39	0.72
1/2"	3.00	4.20	0.70	2.85
3/4"	3.50	4.90	0.90	4.67
1"	4.00	5.40	1.10	6.84
1 1/2"	5.00	8.00	1.50	16.60
2"	6.00	9.00	1.70	22.10

