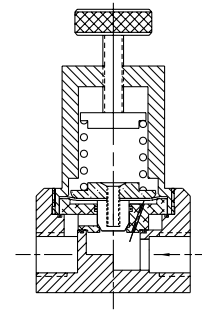


# RBP Series

## Back Pressure Regulator

- Material:** PVC, PP, PVDF, TEFLON  
**Size:** 1/4" - 2"  
**Pressure Rating:** Vacuum to 150 psi  
**Diaphragm:** Teflon ( EPDM Backed )  
**Seals:** EPDM, VITON, KALREZ  
**Connections:** FNPT Threaded (1/4" - 1")  
 MPT (1 1/2" - 2")



ISO 9002 CERTIFIED

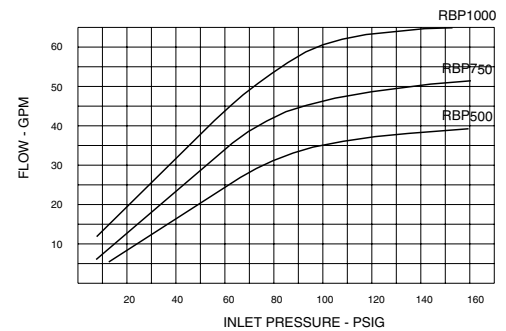
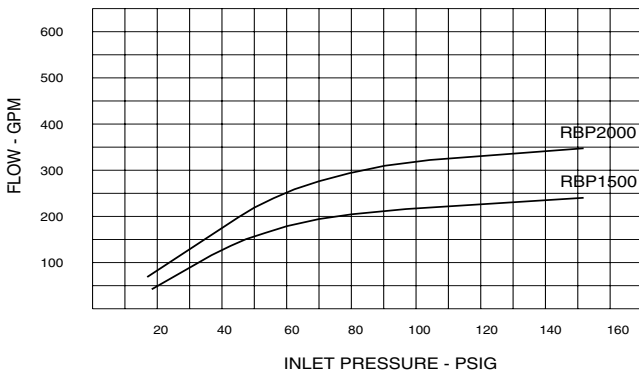
## Engineering Guide Specification

### 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 RBP series back pressure regulator is designed to protect piping and equipment from pressure changes where a constant regulated pressure on the up stream side of the valve is required. Prevents pumps from dead heading, over pressurization, pressure surge conditions, and maintains back pressure in closed loop systems. Adjustable screw and lock-nut makes it easy to accurately preset desired up-stream pressure. Teflon (primary) and EPDM (back-up) diaphragms standard. No metal contact with fluid. Wide adjustable pressure range (10-125 PSI) Small pressure differential band from cracking point to fully open, and from fully open to close. Top entry makes in-line maintenance quick and easy, as manufactured by SIMTECH.

## Pressure/Temperature Graph: Working PSI/Fahrenheit



The performance curves are showing the flow rate of BPR with its piston seals is fully open, and 100% of the fluid flow thru the valve. These curves will be changed depend upon to the flow of the system and at each different pressure setting point.

## Dimensional Data

d Inches	A	B	C	C <sub>v</sub>	Ports
1/2	3.00	4.50	0.93	3.67	FNTP
3/4	3.50	4.80	0.93	4.28	FNTP
1	4.00	5.09	0.93	5.42	FNTP
1 1/2	5.00	5.70	1.50	17.2*	FNTP
2	6.00	6.50	1.70	22.4*	FNTP

(\*) Cv value @ 150 GPM

