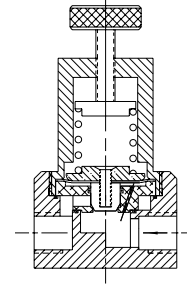


# RSB Series

## Diaphragm Pressure Relief Valve

<b>Material:</b>	PVC, PP, PVDF, TEFLON
<b>Size:</b>	1/2" - 2"
<b>Pressure Rating:</b>	150 psi
<b>Seals:</b>	EPDM, VITON, KALREZ
<b>Piston:</b>	TEFLON
<b>Connections:</b>	FNPT Threaded (1/4" - 1") MPT (1 1/2" - 2")



**ISO 9002 CERTIFIED**

## Engineering Guide Specification

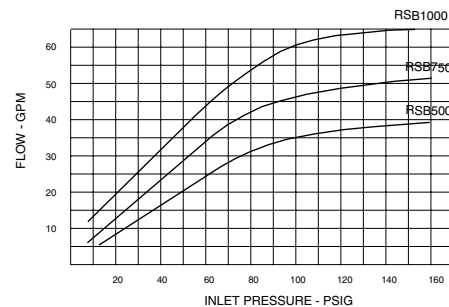
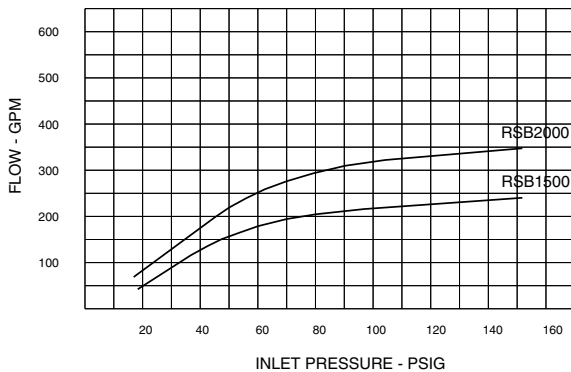
### Materials of Construction:

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

**Guide Specification:** The SIMTECH RSB series diaphragm pressure relief valve is designed to protect piping and equipment from pressure changes where a rapid release of excess pressure 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 relief pressure. Teflon (primary) and EPDM (back-up) diaphragms standard. No metal contact with fluid. Wide adjustable relief 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. Ideal for DI water, harsh chemical, and other high purity applications, as manufactured by SIMTECH.

**Note: Teflon Internals Available for Non Lubricant and Extended Cycle Life Applications**

## Pressure/Temperature Graph: Working PSI/Fahrenheit



The performance curves are showing the flow rate of RSB 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	Cv	Ports
1/2	3.00	4.50	.93	3.67	FNTP
3/4	6.50	4.80	.93	4.28	FNTP
1	4.00	5.09	.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

