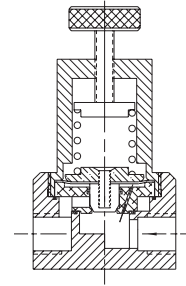


# SBR Series

## Diaphragm Pressure Relief Valve

<b>Material:</b>	PVC, PP, PVDF, TEFLON
<b>Size:</b>	1/4" - 2"
<b>Upstream Pressure:</b>	Vacuum to 150 psi
<b>Relief Pressure:</b>	1/4" to 3/4" - 10 to 125psi 1" - 10 to 100psi 1 1/2" to 2" - 10 to 60psi
<b>Seals:</b>	EPDM, VITON, KALREZ
<b>Diaphragm:</b>	TEFLON
<b>Connections:</b>	Female Threaded (1/4" - 1") Male Threaded (1 1/2" - 2")



**ISO 9002 CERTIFIED**

## Engineering Guide Specification

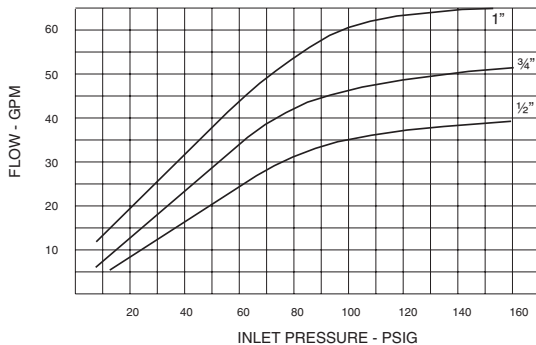
### Materials of Construction:

<b>PVC:</b>	Class 12454B per ASTM D1784
<b>PP:</b>	Class PP 110B76383 per ASTM D4101
<b>PVDF:</b>	Type 1 per ASTM D3222

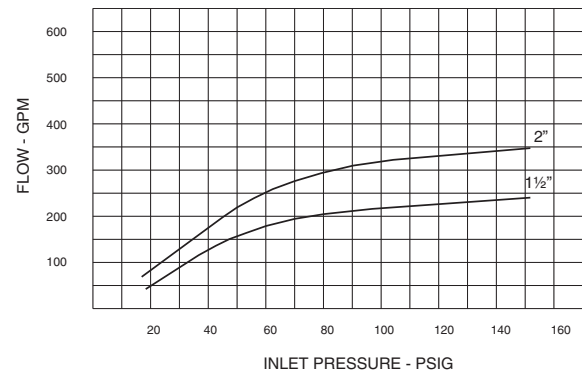
**Guide Specification:** The SIMTECH SBR series diaphragm pressure relief valve is designed to protect piping and equipment from pressure changes where a rapid release of excess pressure is required. Prevents pumps from dead heading, over pressurization, pressure surge conditions, and maintains back 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

Nom. Size	A	B	C	C <sub>v</sub>
1/4"	1.60	2.10	0.39	0.72
1/2"	3.00	4.50	0.93	3.67
3/4"	3.50	4.80	0.93	4.28
1"	4.00	5.09	0.93	5.42
1 1/2"	5.00	5.70	1.50	17.2
2"	6.00	6.50	1.70	22.4

