

SBR

DESIGN FEATURES

The R-K 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 pre-set 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.

DIAPHRAGM PRESSURE RELIEF VALVE

SPECIFICATIONS

Upstream Pressure	Vacuum to 150 PSIG	Pressure differential	Plus or Minus 3 PSIG from any pre-set pressure relief point.
Relief Pressure	1/4" to 3/4" 10-125 PSIG 1" 10-100 PSIG 1-1/2" & 2" 10-60 PSIG	Temperature Range	0 F to 140 F for PVC 0 F to 180 F for POLYPRO 0 F to 280 F for PVDF 0 F to 340 F for Teflon
Material	Valve Body PVC Type 1, Grade 1 Polypropylene PVDF Teflon	Valve ports	1/4" to 1" Valve FNPT 1.5" to 2" Valve MPT All valves are fully ported
	Piston Teflon	Mounting method	(4) 1/4" -20 tapped holes for standard machined valve body. (1/4" to 1")
	Diaphragm Primary TEFLON Back-up EPDM		
	Seal EPDM VITON KALREZ		

ORDER INFORMATION

The chart below will specify R - K standard valves regarding valve size, valve material, and seal material. For special orders, please consult the factory for pricing and delivery information.

SBR - X X X - X		SEALS
VALVE SIZE	MATERIAL	
25 = 1/4"	1 = PVC	E = EPDM
50 = 1/2"	2 = POLYPRO	V = VITON
75 = 3/4"	3 = PVDF	K = KALREZ
100 = 1.0"	4 = TEFLON	O = OTHER (Please specify)
150 = 1.5"	5 = OTHER (Please specify)	
200 = 2.0"		

R-K INDUSTRIES



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ONTARIO, CA 91761

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ENGINEERING & PERFORMANCE DATA

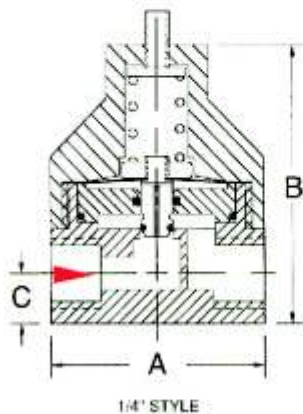
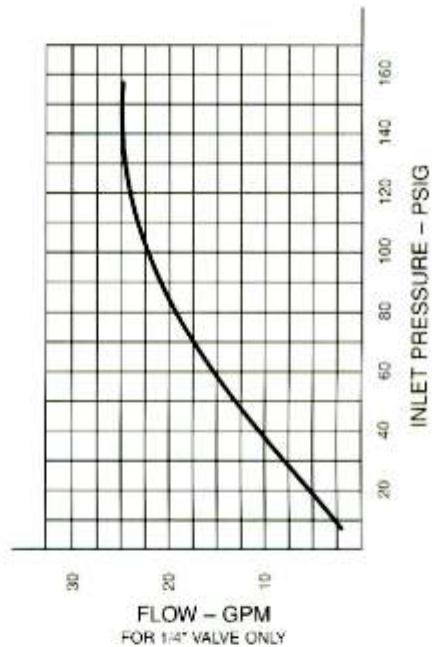
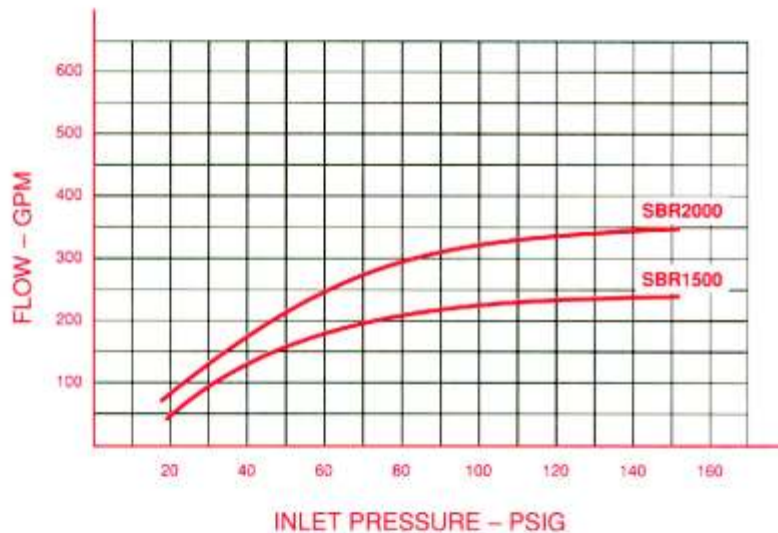
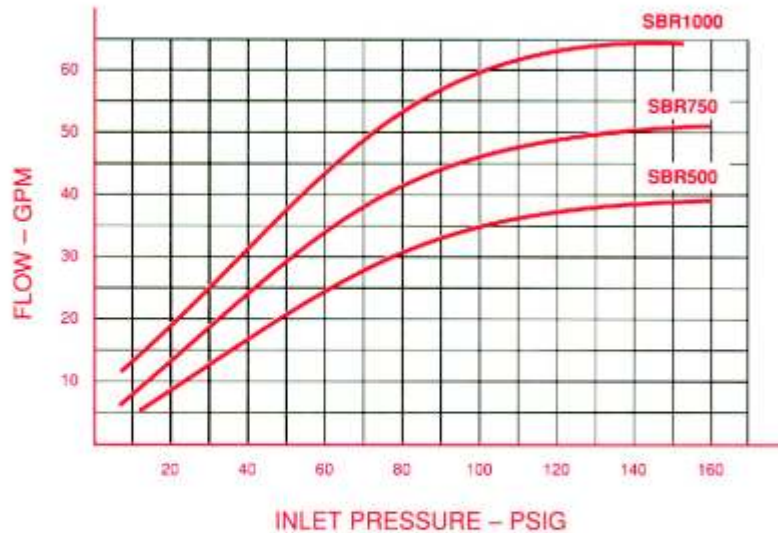
NOTES

THE PERFORMANCE CURVES SHOW THE FLOW RATE OF SBR VALVES WITH THE VALVE FULLY OPEN AND 100% FLOW THRU THE VALVE. THESE CURVES WILL CHANGE DEPENDING ON THE FLOW THRU THE SYSTEM AT EACH DIFFERENT SET POINT.

TEST DATA WAS PERFORMED WITH 68 DEGREE F WATER, AND 160 PSIG MAXIMUM PRESSURE.

THESE PERFORMANCE CURVES WILL BE CHANGED WITH HIGHER VISCOSITY LIQUID AND/OR HIGHER TEMPERATURE.

CONSULT YOUR LOCAL SALES REP OR MANUFACTURER DIRECTLY FOR CUSTOM PRODUCTS OR SPECIAL APPLICATIONS.

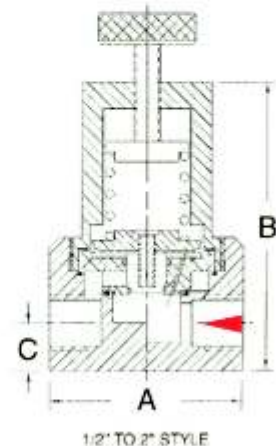


DIMENSIONAL DATA

DIMENSIONS IN INCHES

Valve size	Ports	A	B	C	Cv
1/4"	FNPT	1.60	2.10	.39	.72
1/2"	FNPT	3.00	4.50	.93	3.67
3/4"	FNPT	3.50	4.80	.93	4.28
1.0"	FNPT	4.00	5.09	.93	5.42
1.5"	MPT	5.00	5.70	1.50	17.2"
2.0"	MPT	6.00	6.50	1.70	22.4"

(*) Cv value @ 150 GPM



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