

SLB

DESIGN FEATURES

The R-K SLB (Super Low Back Pressure/ Relief Valve) series is designed to protect piping and/or system from pressure changes where quick relief of excess pressure is required. Prevents pumps from dead head, over pressure, pressure surges, and maintains back pressure in closed loop systems. This valve is known as a POP-UP, BY-PASS, and BACK PRESSURE Valve..

Adjustable screw and lock-nut allows easy and accurate pre-set relief pressure.

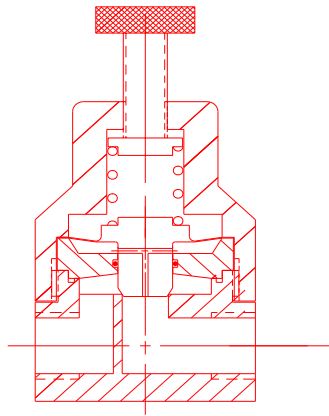
Teflon diaphragm.

No metal contact with fluid.

Small pressure differential band from cracking point to fully open, and from wide open to close.

Top entry makes in-line maintenance quick and easy

Ideal for Pharmaceutical, Biomedical, DI water, harsh chemical, and other high purity applications.



SUPER-LOW BACK PRESSURE / RELIEF VALVE

SPECIFICATIONS

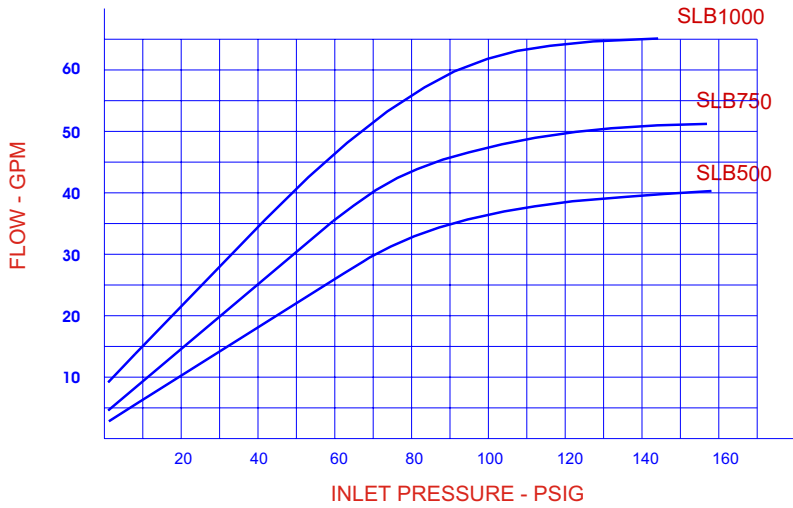
Upstream Pressure	Vacuum to 150 PSIG	Temperature Range	0 F to 140 F for PVC 0 F to 180 F for POLYPRO 0 F to 280 F for PVDF 0 F to 340 F for TEFLON
Back / Relief Pressure	½ to 10 PSIG		
Pressure differential	Plus / Minus 5-10% from any preset point.	Material	Valve Body PVC Type 1 , Grade 1 Polypropylene PVDF Teflon
Valve ports	1/4" to 1" Valve FNPT 1.5" to 2" Valve MPT	Diaphragm	Virgin Teflon
Mounting method	(4) 1/4"-20 tapped holes for standard machined valve body.	Seal	EPDM VITON (Standard) 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.

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

ENGINEERING & PERFORMANCE DATA



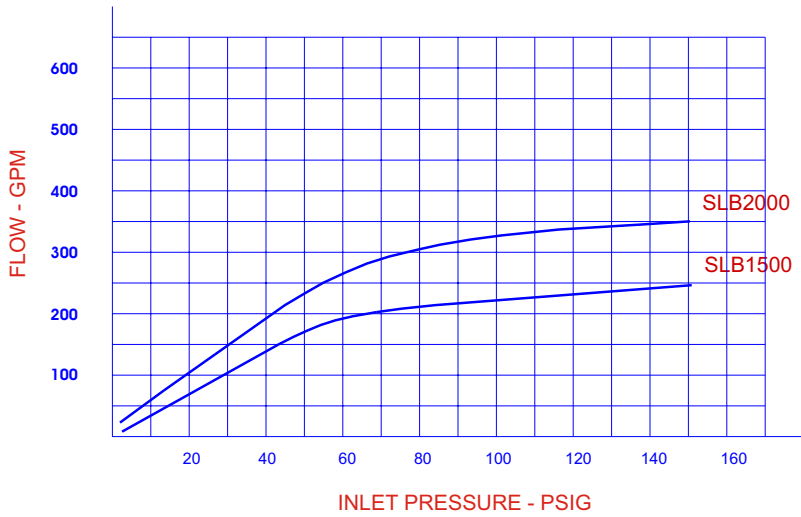
NOTES

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

TEST DATA WAS PERFORMED WITH 68 DEGREE 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

Dim Unit = Inches

Valve size	Ports type	A	B	C	Cv
1/2"	FNPT	2.50	3.85	.65	4.26
3/4"	FNPT	3.00	4.65	.75	4.84
1.0"	FNPT	3.50	6.30	.98	6.78
1.5"	MPT	4.00	7.18	1.25	19.6*
2.0"	MPT	5.00	7.75	1.62	24.3*

(*) Cv value @ 150 GPM

