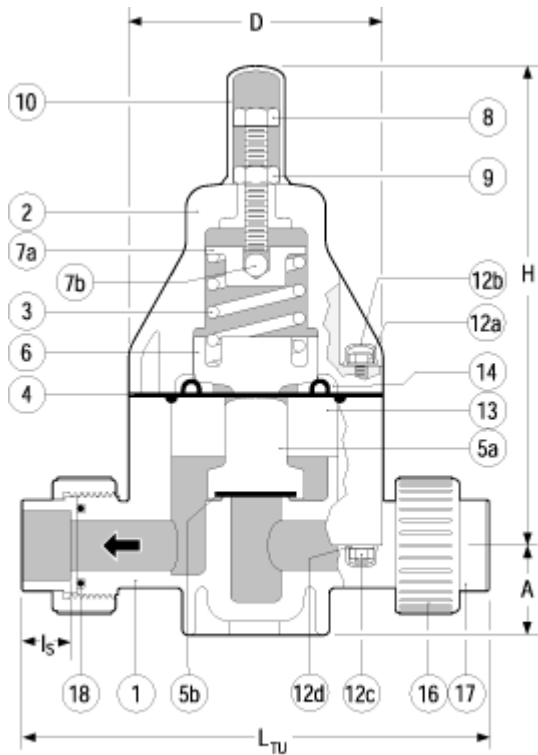




CHEMLINE SB12 DATASHEET

SB 12 Back Pressure Relief / Valve Components, 1/2" to 2" Sizes

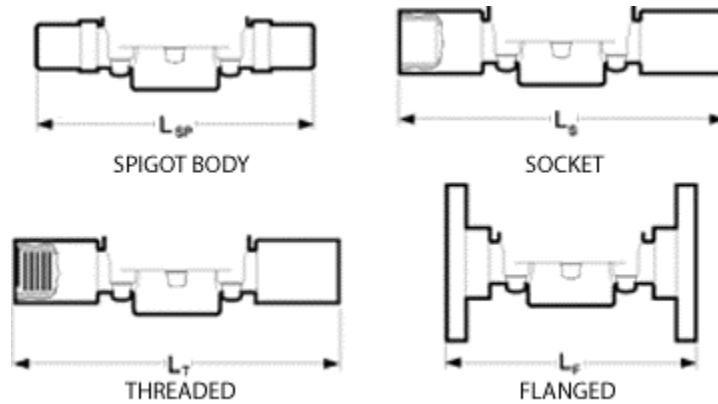


C121-SB12-S32ba

#	Part	Material
1	Body	PVC,PP,PVDF
2	Bonnet	PPG
3	Spring	304 SS
4	Diaphragm	Teflon bonded EPDM
5a	Piston	PVC, PP, PVDF
5b	Seat	EPDM Viton
6	Spring Retainer	PPG
7a	Spring Retainer	Cad Plated Steel
7b	Ball	304 SS
8	Tensioning Bolt	304 SS
9	Lock Nut	304 SS
10	Spring Bolt Cap	PE
12a	Bolt	PE
12b	Hex Bolt	304 SS
12c	Hex Nut	304 SS
13	Spacer Disk	PVC, PP, PVDF
14	Pressure Plate	PP
16	Union Nut	PVC, PP, PVDF
17	End Connector	PVC, PP, PVDF
18	Face O Ring	EPDM Viton



Fitting Ends. For dimensions of fitting ends see table below diagram



Dimensions in inches			PVC							PP & PVDF			Flow GPM
Size	D	H	A	Is	L _{TU}	L _{SP}	L _S	L _T	L _F	A	L _{SP}	L _{TU}	1 psi Pressure diff
3/8"	3.2	6.9	1.0	0.6	6.5	5.7	7.4	7.2	4.5	0.9	5.7	NA	2.1
1/2"	3.2	6.9	1.0	0.6	6.8	5.7	8.0	7.8	6.3	0.9	5.7	7.1	3.0
3/4"	4.2	8.0	1.5	0.7	8.3	6.9	9.3	8.9	7.4	1.4	6.9	8.4	6.6
1"	4.2	8.0	1.5	0.9	8.5	6.9	9.6	9.3	7.4	1.4	6.9	8.7	8.7
1-1/4"	5.8	10.3	2.2	1.0	10.9	8.8	11.6	11.2	9.2	2.1	8.8	10.9	18.0
1-1/2"	5.8	10.3	2.2	1.2	11.1	8.8	12.2	11.5	9.5	2.1	8.8	11.2	20.0
2"	5.8	10.3	2.2	1.5	11.3	9.6	12.9	12.0	10.0	2.1	9.6	13.2	21.4

Maximum Pressures, psi

Size	PVC				Polypropylene					PVDF				
	20°C 68° F	30°C 86° F	40°C 104° F	50°C 122° F	20°C 68° F	30°C 86° F	40°C 104° F	50°C 122° F	50°C 122° F	20°C 68° F	30°C 86° F	40°C 104° F	50°C 122° F	50°C 122° F
3/8"	150	105	60	15	150	90	60	35	15	150	100	60	45	30
1/2"	150	105	60	15	150	90	60	35	15	150	100	60	45	30
3/4"	150	105	60	15	150	90	60	35	15	150	100	60	45	30
1"	150	105	60	15	150	90	60	35	15	150	100	60	45	30
1-1/4"	150	105	60	15	150	90	60	35	15	150	100	60	45	30
1-1/2"	150	105	60	15	150	90	60	35	15	150	100	60	45	30
2"	150	105	60	15	150	90	60	35	15	150	100	60	45	30