

SV Series Vacuum Breakers



SERIES: SV
SIZES: 3/8" to 3"
ENDS: Spigot, Socket, Threaded or Flanged
SEALS: FPM (Viton®)
SPRING: ECTFE (Halar®) Coated Steel
BALL/FLOAT: PP



Chemline **SV Series** vacuum breaker valves are designed as one way valves, opening only when process pressure drops in order to allow air/gas into the process. Its operation is simple as the ball is held at the top of the vertically mounted valve by a coated spring.

Once process pressure drops, the ball comes off the top seal and allows air/gas into the process. When the vacuum has been broken, the spring pushes the ball against the top seal to close the valve and isolate the process.

Features

Opening Pressure

- 0.75 psi (0.05 bar)

Operation

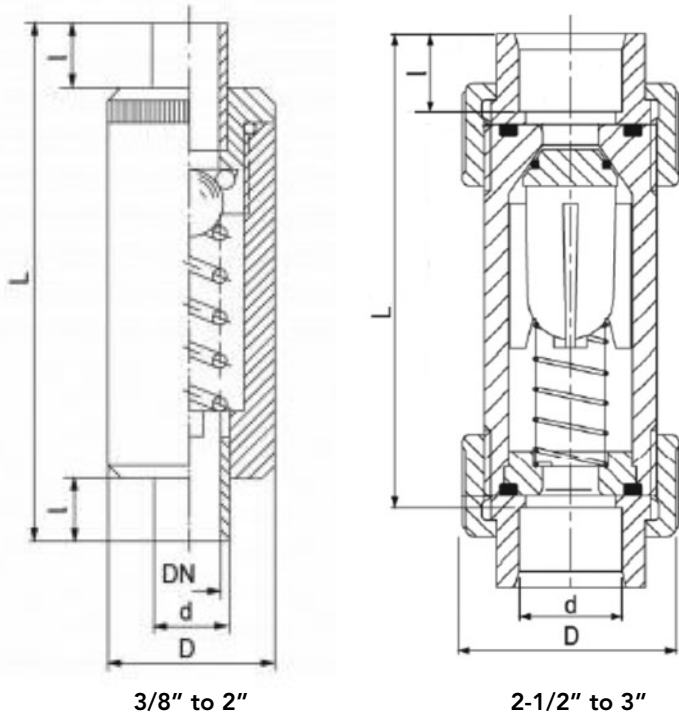
- Medium controlled
- High level of operating safety and long service life
- Low maintenance

Installation

Mount vertically only and with flow in proper direction (as marked on the valve). When installed on tanks, valves must be checked in terms of the safety regulations of the specific application. Operating figures depend on the specific operating values of the application (pressure, temperature, medium, crystallization, etc.)

¹ Only for 3/8" to 2" sizes

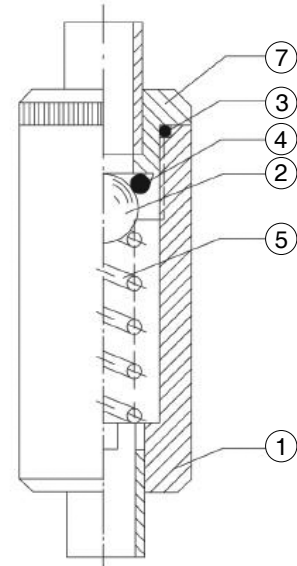
SV Series Vacuum Breakers



PARTS

No.	Part	Pcs.	Materials
1	Body	1	PVC, PP, PVDF ¹
2	Ball/Float	1	PP
3	Seal	2	FPM (Viton®)
4	Seal	1	FPM (Viton®)
5	Pressure Spring	1	ECTFE (Halar®) Coated Steel
6	Bonnet	1	PVC, PP, PVDF ¹

¹ 3/8" to 2" only



DIMENSIONS MM

NET WEIGHTS GRAMS

FLOW RATE

Valve Size			Dimensions			Material			Flow Rate Nm ³ /h
DN inch	DN mm	d mm	D mm	L mm	I mm	PVC	PP	PVDF	
3/8"	10	16	35	114	14	98	69	128	10
1/2"	15	20	40	124	16	128	90	166	14
3/4"	20	25	45	144	19	190	133	173	18
1"	25	32	55	154	22	285	200	371	40
1-1/4"	32	40	70	174	26	505	353	657	60
1-1/2"	40	50	80	194	31	705	494	917	75
2"	50	63	95	224	38	1,225	858	1,593	85
2-1/2"	65	75	134	254	160	1,850	1,295	2,405	180
3"	80	90	134	270	160	3,140	2,198	4,082	180

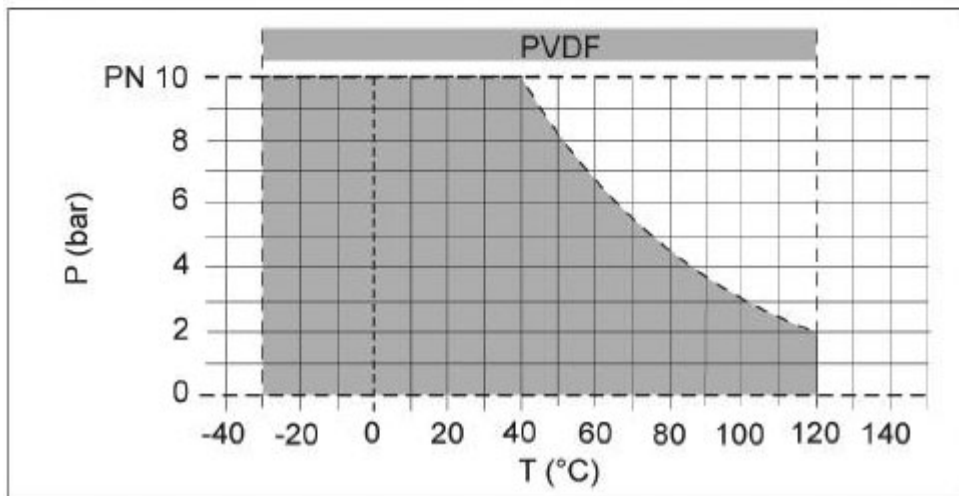
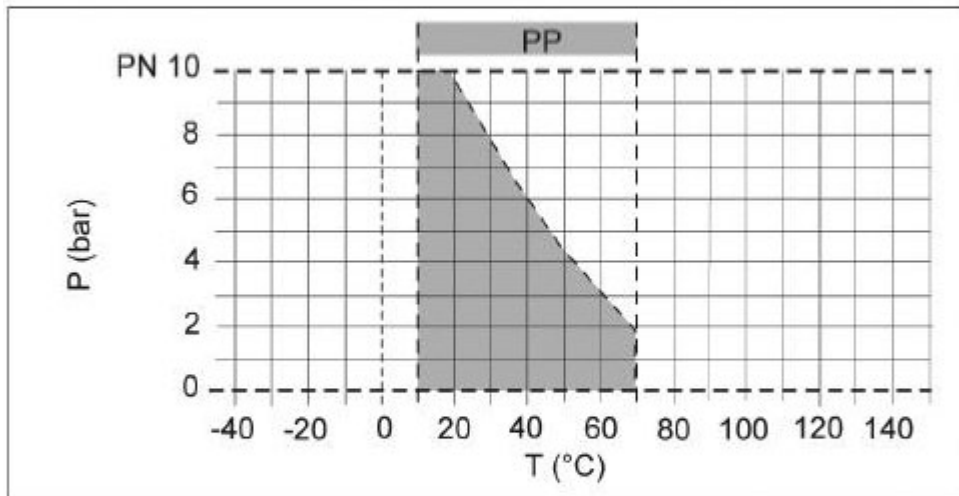
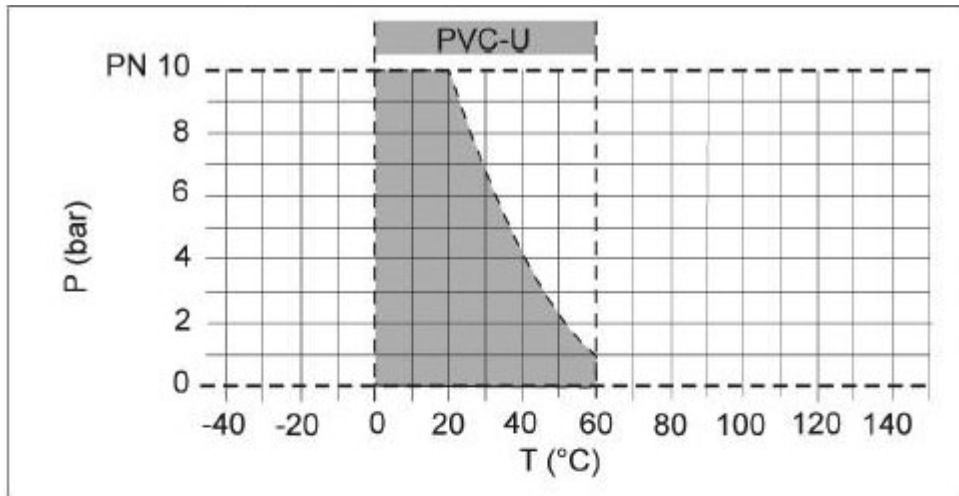
Standard Values:
Flow Velocity Vair ~ 10-20 m/s
Flow based on air (Nm³/h)

ORDERING EXAMPLE

Chemline SV Series Vacuum Breakers				SV	A	015	V	-
Valve Material	A – PVC	B – PP	K – PVDF					
Size	003 – 3/8"	005 – 1/2"	007 – 3/4"	010 – 1"	012 – 1-1/4"			
	015 – 1-1/2"	020 – 2"	025 – 2-1/2"	030 – 3"				
Seals	V – FPM (Viton®)							
End Connectors	BLANK – Spigot S – Socket T – Threaded F – Flanged							

Example: Chemline SV Series Vacuum Breaker, PVC, 1-1/2", with FPM (Viton®) seals, spigot ends

PRESSURE/TEMPERATURE



The pressure/temperature limits are applicable for the stated nominal pressures and a computed operating life factor of 25 years. These are standard values for harmless media (DIN 2403), to which the valve material is resistant.

For other media please refer to the Chemline's Chemical Resistance Guide. The durability of wear parts depends on the operating conditions of the application.

For temperatures below 0°C (PP < +10°C) please specify the precise operating conditions of the application.

P = Operating Pressure
T = Temperature