Swing Check Valves

CHEMLINE Plastics Limited

Your Pipeline To Quality

The Chemline SC Series Swing Check Valve is the heaviest duty solid plastic non-return valve available. The strong one piece flanged body is suitable for installation in any type of piping, horizontally or vertically. A large choice of body materials and seals including PVDF and Teflon® allow its use in the most aggressive chemical services. Pressure drop is low due to full flow design.

PVC†, PP, PVDF

SERIES: SC

SIZES: 3/4" – 8"

ENDS: Flanged

SEALS: EPDM, Teflon®

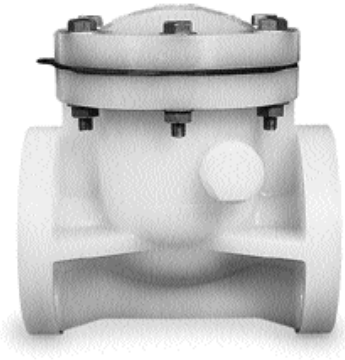
Low Pressure Loss

Horizontal or Vertical Operation

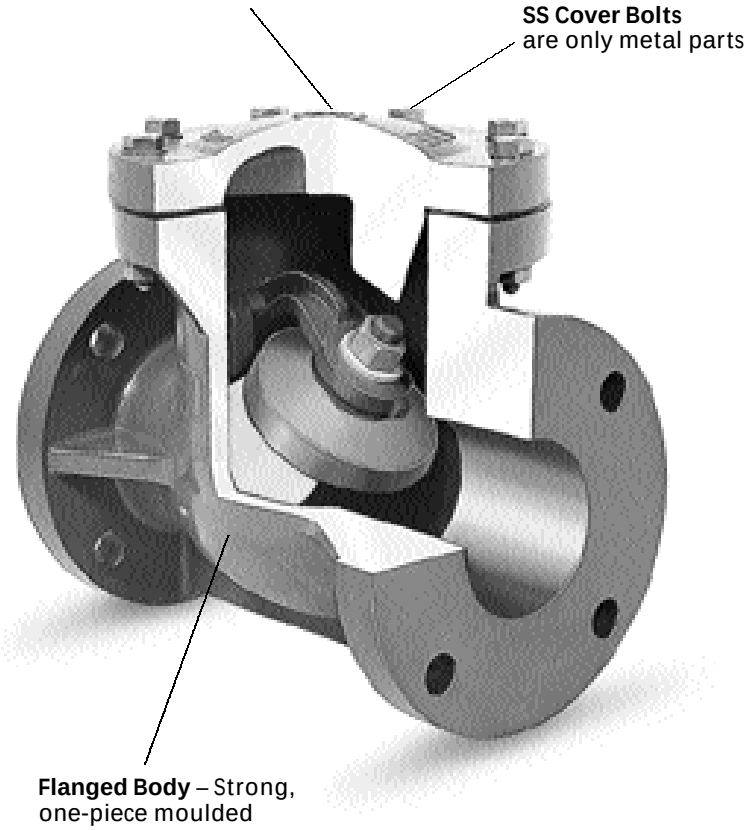
Heavy Duty Design

Features

- **Strong, One-Piece Moulded Flanged Body** – Suitable for installation in metal piping
- **Light Weight**
- **Large Flow Capacity** – Low pressure drop



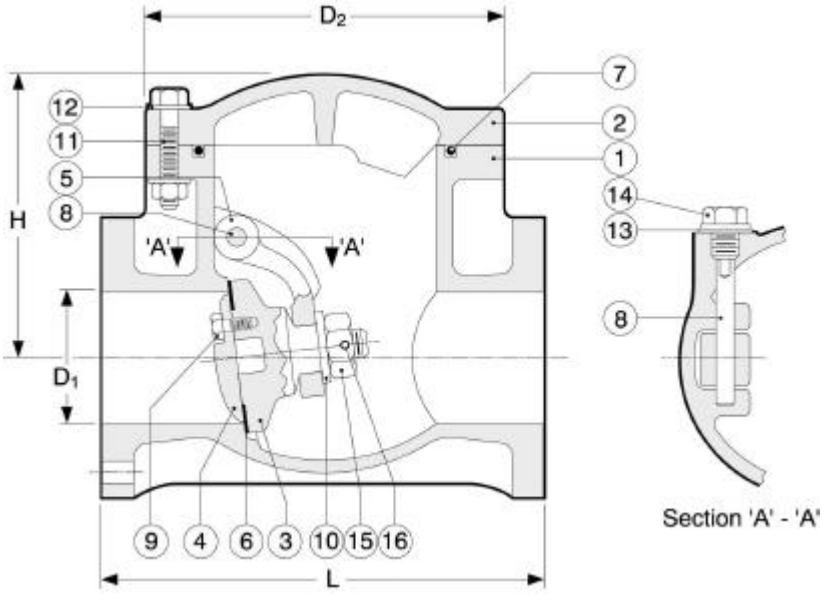
PVDF Valve – Resists extremely aggressive chemicals



***** Standard seals are EPDM in PVC, PP valves, Teflon® and PVDF coated EPDM in PVDF valves.
† All PVC valve parts are now made of High Impact PVC material.

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Swing Check Valves



PARTS

No.	Part	Pcs.	Materials
1	Body	1	PVC, PP, PVDF
2	Bonnet	1	PVC, PP, PVDF
3	Disc	1	PVC, PVDF†
4	Seat Holder	1	PVC, PP, PVDF
5	Swing Arm	1	PVC, PP, PVDF
6	Seat	1	EPDM, PTFE*
7	Bonnet O-Ring	1	EPDM, PVDF – coated EPDM*
8	Hinge Pin	1	PVC, PP, PVDF
9	Disc Bolt	Set	PVC, PP, PVDF
10	Washer	1	PVC, PP, PVDF
11	Bolt & Nut	Set	304 SS
12	Washer	Set	304 SS
13	Sheet Gasket	1	EPDM, PTFE*
14	Side Plug	1	PVC, PP, PVDF
15	Disc Lock Nut	1	PVC, PP, PVDF
16	Set Pin	1	PVC, PP, PVDF

* PVC, PP valves are fitted with EPDM seals as standard (parts 6, 7, 13). PVDF valves have parts 6 & 13 of Teflon® PTFE and No. 7 of PVDF coated EPDM as standard. † PP valve has PVDF disc.

All PVC valve parts are now made of High Impact PVC.

WORKING PRESSURES PSI — NET WEIGHTS LB. — DIMENSIONS INCHES — C_V VALUES

Size	PVC 0-20°C 32-68°F	PVC 50°C 122°F	Polypropylene –20-60°C –4-140°F	Polypropylene 80°C 176°F	PVDF –20-60°C –4-140°F	PVDF 100°C 212°F	PVC	PP	CPVC	D_1	L	D_2	H	USGPM Flow at 1 psi △P
3/4"	150	100	100	85	85	60	1.7	1.3	2.2	0.79	5.51	3.39	3.54	14.
1"	150	100	100	85	85	60	3.5	2.4	4.4	0.98	6.30	5.12	4.72	24.
1-1/2"	150	100	100	85	85	60	5.9	3.7	6.2	1.57	7.09	5.71	5.43	81.
2"	150	100	100	85	85	60	8.8	6.2	10.	1.97	7.87	7.09	6.46	140.
2-1/2"	150	100	100	85	85	60	11.	7.7	13.	2.56	9.45	7.87	6.61	250.
3"	150	100	100	85	75	45	13.	8.4	15.	3.15	10.24	8.07	6.73	280.
4"	100	75	75	60	75	45	21.	15.	25.	3.94	11.81	10.43	8.39	510.
5"	100	75	75	60	60	40	36.	25.	43.	4.92	13.78	12.99	9.76	750.
6"	100	75	75	60	50	30	46.	32.	56.	5.91	15.75	14.87	11.14	1100.
8"	70	50	50	30	45	30	75.	52.	90.	7.87	19.69	16.73	13.23	1900.

Working pressures of PVC and PP valves fitted with Teflon® seals are lower than above. Consult Chemline.
Temperature Ranges: PVC 0 to 60ºC (32 to 140ºF), **PP** –20 to 90ºC (–4 to 194ºF), **PVDF** –20 to 100ºC (–4 to 212ºF).

ORDERING EXAMPLE

Chemline Swing Check Valve					**SC**	**K**	**015**	**P**
Valve Material	**A** - PVC	**B** - PP	**K** - PVDF					
Size	**007** - 3/4"	**010** - 1"	**015** - 1-1/2"	**020** - 2"	**025** - 2-1/2"			
	030 - 3"	**040** - 4"	**050** - 5"	**060** - 6"	**080** - 8"			
Seals	**E** - EPDM	**P** - Teflon® & PVDF						

Example: Flanged Swing Check Valve, PVDF, 1-1/2", with Teflon® & PVDF seals.

PRESSURE TO OPEN/CLOSE PSI

Size	Minimum △P to Open Horizontal	Minimum △P to Open Vertical	Minimum △P to Close Horizontal	Minimum △P to Close Vertical
1"- 2-1/2"	1.4	1.4	3.6	2.8
3"- 5"	1.4	1.4	4.3	3.6
6"	1.4	2.1	5.0	4.3
8"	2.1	2.8	5.0	4.3

Above data is from tests using water on valves with EPDM disc facing.

OPTIONS

- Alternate seat and seals of Teflon® or Viton
- External lever and weight or spring to assist disc to close faster

VACUUM RATING

- 29.9 inches mercury

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Established in 1968