SC Series Swing Check Valves



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 PTFE allow its use in the most aggressive chemical services. Pressure drop is low due to the full port design.



SIZES: 3/4" to 8"

ENDS: Flanged

SEALS¹: EPDM or PTFE

Features

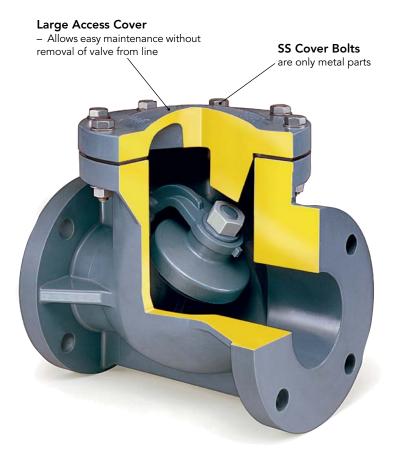
- · Low Pressure Loss
- · Light Weight
- · Horizontal or Vertical Operation

Strong, One-Piece Moulded Flanged Body

· Suitable for installation in metal piping

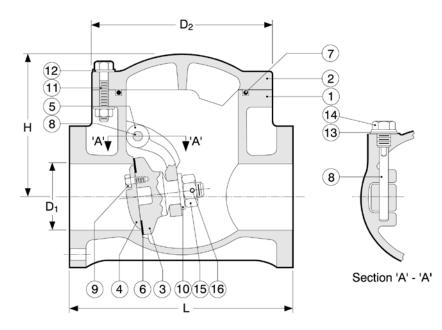
Large Flow Capacity

· Low pressure drop



¹ Standard seals are EPDM in PVC, PP valves, PTFE and PVDF coated EPDM in PVDF valves





PARTS

No.	Part	Pcs.	Materials				
1	Body	1	PVC, PP, PVDF				
2	Bonnet	1	PVC, PP, PVDF				
3	Disc	1	PVC, PVDF ¹				
4	Seat Holder	1	PVC, PP, PVDF				
5	Swing Arm	1	PVC, PP, PVDF				
6	Seat ²	1	EPDM, PTFE ²				
7	Bonnet O-Ring	1	EPDM, PVDF coated EPDM ²				
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 ²				
14	Side Plug	1	PVC, PP, PVDF				
15	Disc Lock Nut	1	PVC, PP, PVDF				
16	Set Pin	1	PVC, PP, PVDF				

¹ PP valve has PVDF disc.

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

Cv

WORKING PRESSURES PSI

NET WEIGHTS LB. DIMENSIONS INCHES VALUES

	PVC Polypropylene		PVDF									USGPM			
	0-25°C	50°C	–20-25°C	60°C	80°C	–20-25°C	100°C								Flow at
Size	32-77°F	122°F	–4-77°F	140°F	176°F	–4-77°F	212°F	PVC	PP	PVDF	D_1	L	D_2	Н	1 psi △P
3/4"	150	100	150	100	85	150	90	1.7	1.3	2.2	0.79	5.51	3.39	3.54	14
1″	150	100	150	100	85	150	90	3.5	2.4	4.4	0.98	6.30	5.12	4.72	24
1-1/2"	150	100	150	100	85	150	90	5.9	3.7	6.2	1.57	7.09	5.71	5.43	81
2″	150	100	150	100	85	150	90	8.8	6.2	10.	1.97	7.87	7.09	6.46	140
2-1/2"	150	100	150	100	85	150	90	11.	7.7	13.	2.56	9.45	7.87	6.61	250
3″	150	100	150	100	85	150	90	13.	8.4	15.	3.15	10.24	8.07	6.73	280
4"	100	75	100	75	60	100	70	21.	15.	25.	3.94	11.81	10.43	8.39	510
5″	100	75	100	75	60	100	70	36.	25.	43.	4.92	13.78	12.99	9.76	750
6"	100	75	100	75	60	100	70	46.	32.	56.	5.91	15.75	14.57	11.14	1,100
8"	70	50	70	50	30	70	50	75.	52.	90.	7.87	19.69	16.73	13.23	1,900

Working pressures of PVC and PP valves fitted with PTFE seals are lower than above. Consult Chemline.

Temperature Ranges: PVC 0 to 60°C (32 to 140°F), **PP** –20 to 90°C (–4 to 194°F), **PVDF** –20 to 100°C (–4 to 212°F).

OPTIONS

• Alternate seat and seals of PTFE or FKM (Viton®)

ORDERING EXAMPLE

Cher	nline SC S	eries Swi	ng Check Va	lves SC	K	015	Р
Valve	Material	A – PVC	B – PP	K – PVDF			
Size	030 – 3"	040 – 4"	015 – 1-1/2" 050 – 5"	060 – 6"	080 –	8"	
Seals	E – EPDM						

Example: Chemline SC Series Swing Check Valve, PVDF, 1-1/2", with PTFE & PVDF coals

VACUUM RATING

- 29.9 inches mercury
- Maximum recommended velocity 5 m/s

PRESSURE TO OPEN/CLOSE PSI

	Minimum △l	P to Open	Minimum $\triangle P$ to Close			
Size	Horizontal	Vertical	Horizontal	Vertical		
1" to 2-1/2"	1.4	1.4	3.6	2.8		
3" to 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. Consult Chemline for Open/Close pressures for alternate materials.

SC Series 09/22



² PVC, PP valves are fitted with EPDM seals as standard (parts 6, 7, 13). PVDF valves have parts 6 & 13 of PTFE and No. 7 of PVDF coated EPDM as standard.