



CHEMLINE SWING CHECK VALVE

Data Manual



CRN
Registered
Coast Chemline

SERIES: SC¹

SIZES: 3/4" – 8"

ENDS: Flanged

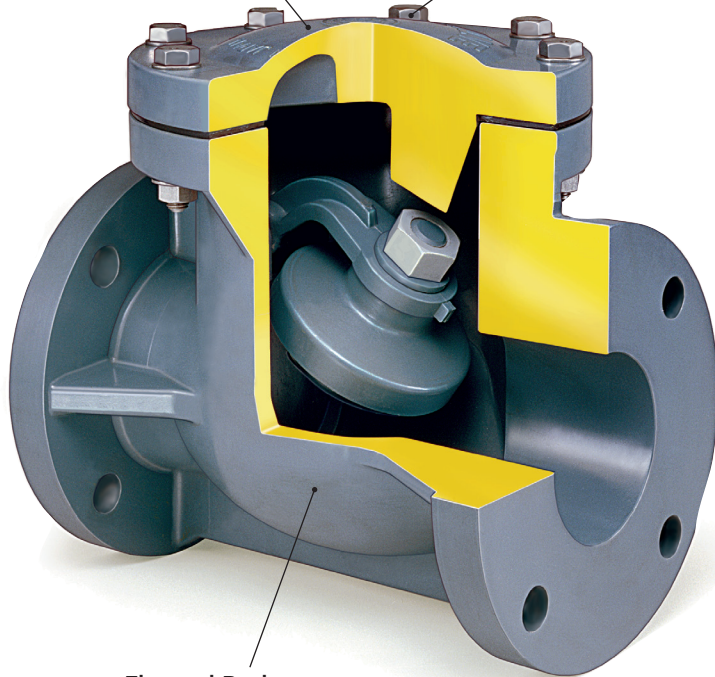
SEALS:² EPDM, PTFE

Large Access Cover

– Allows easy maintenance without removal of valve from line

SS Cover Bolts

are only metal parts



Flanged Body – Strong, one-piece moulded

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

CRN Registration numbers by province

- Ontario: OC11045.5
- Newfoundland: OC11045.50
- Saskatchewan/Manitoba/Quebec: OC11045.56
- New Brunswick: OC11045.57
- Nova Scotia: OC11045.58
- P.E.I.: OC11045.59
- British Columbia: not required
- Alberta: not required³

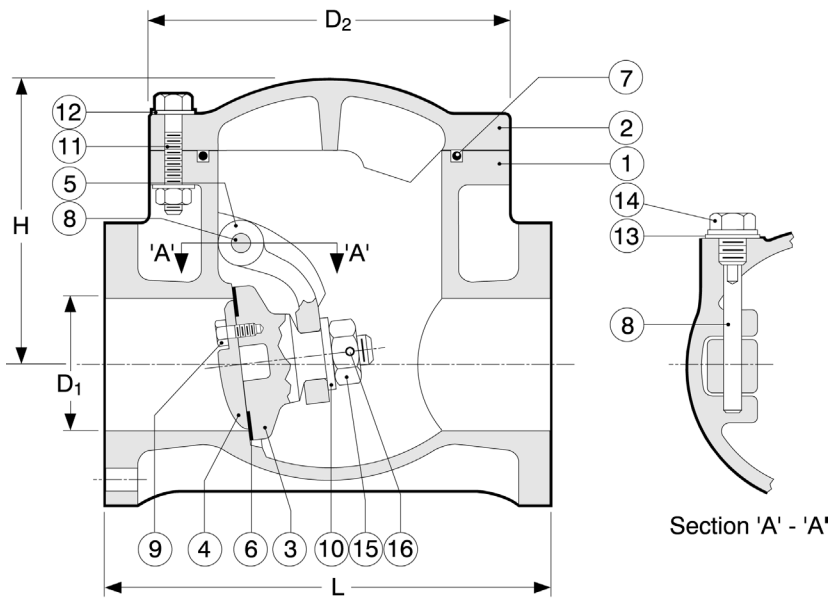


Optional Adjustable External Weighted Swing Arm – for quicker and quieter operation in low flow services

¹ All PVC valve parts are now made of High Impact PVC material.

² Standard seals are EPDM in PVC, PP valves, PTFE and PVDF coated EPDM in PVDF valves.

³ Not required for non-expandable fluids.



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.

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.

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

WORKING PRESSURES PSI

NET WEIGHTS LB. **DIMENSIONS** INCHES

Cv VALUES

Size	PVC		Polypropylene			PVDF		PVC	PP	PVDF	D ₁	L	D ₂	H	USGPM Flow at 1 psi ΔP
	0-25°C 32-77°F	50°C 122°F	-20-25°C -4-77°F	60°C 140°F	80°C 176°F	-20-25°C -4-77°F	100°C 212°F								
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®)
- External lever and weight or spring to assist disc to close faster

VACUUM RATING

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

ORDERING EXAMPLE

Chemline Swing Check Valves				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 – PTFE & PVDF					

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

PRESSURE TO OPEN/CLOSE PSI

Size	Minimum ΔP to Open		Minimum ΔP to Close	
	Horizontal	Vertical	Horizontal	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. Consult Chemline for Open/Close pressures for alternate materials.