

Flange End Swing Check Valve



ISO 9002 CERTIFIED

Material:	PVC, CPVC, PP, PVDF
Size:	½" - 8"
Pressure Rating:	150 PSI
Seals:	EPDM or Viton
Connections:	ANSI 150 lb. Flanged

Materials of Construction:

PVC: Class 12454B, ASTM D-1784

CPVC: Class 23447B, ASTM D1784

PP: Class PP110B76383, ASTM D-4101

PVDF: Type 1, ASTM D-3222

Seals: EPDM or Viton

Guide Specification: Swing Check valves shall have flanged body, bonnet, swing arm, and flapper constructed of the material as selected above. Bonnet shall include a swing arm stop to prevent the valve from opening too far. Nuts and bolts shall be 304 SS and seat seal shall be EPDM or Viton, as manufactured by SIMTECH.

Features

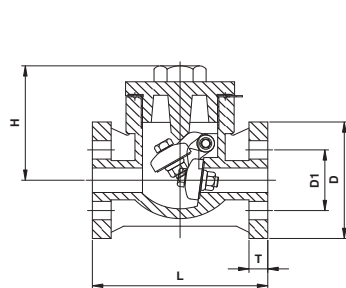
- Suitable for wastewater treatment, chemical plant applications, agricultural irrigation
- Excellent flow characteristics providing minimal pressure drop
- Ideal for horizontal as well as vertical installation
- Top entry for easy in-line maintenance
- Fast closing to minimize water hammer
- All sizes vacuum rated
- Weighted Disc/Shutter available upon request
- PTFE Seals available upon request

Pressure/Temperature Graph: Working PSI/Fahrenheit

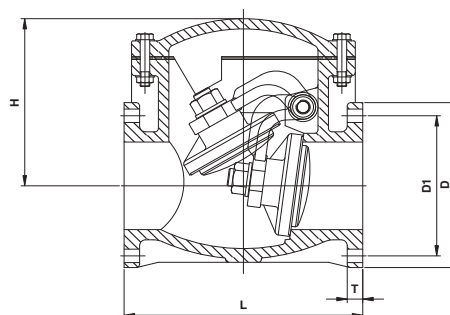
	Seal	Temp.	¾"	1"	1 ½"	2"	2 ½"	3"	4"	6"	8"
PVC	EPDM or FPM	30 F - 70 F	150	150	150	150	150	150	150	100	70
		105 F	150	100	100	100	100	100	100	67	47
		120 F	100	100	100	100	100	100	100	60	40
PP	EPDM or FPM	-5 F - 105 F	150	150	150	150	150	150	150	100	70
		140 F	125	125	125	125	125	125	125	83	58
		175 F	103	103	103	103	103	103	103	69	48
PVDF	EPDM or FPM	-5 F - 105 F	150	150	150	150	150	150	150	100	70
		175 F	120	100	100	100	100	100	100	70	50
		210 F	65	55	55	55	45	45	45	30	30

Dimensional Data

Nom. Size	D	D1	H	L	T	# Holes	Hole Size
1/2"	3.94	2.36	3.66	5.51	0.59	4	0.63
3/4"	3.94	2.76	3.66	5.51	0.59	4	0.63
1"	4.25	3.11	4.63	6.30	0.67	4	0.63
1 1/4"	5.00	3.50	5.35	7.09	0.75	4	0.63
1 1/2"	5.00	3.86	5.39	7.09	0.75	4	0.63
2"	5.98	4.76	6.50	7.87	0.79	4	0.75
2 1/2"	7.01	5.51	6.71	9.45	0.87	4	0.75
3"	7.52	5.98	6.69	10.24	0.87	4	0.75



1/2" & 3/4"



1" to 8"

Back Pressure—psi

Back Pressure in PSI Required to Fully Seat and Seal Valve

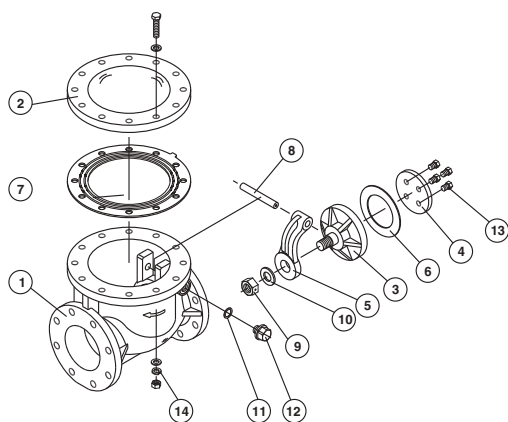
ND	3/4	1	1 1/2	2	2 1/2	3	4	6	8
PSI	2.8	5	5	5	5	5	4	6	6

Flow Rate in Gallons Per Minute

Cv is the number of gallons per minute of water at a temperature of 68°F that will flow through a valve with a 1 psi pressure differential at a specified travel.

ND	3/4	1	1 1/2	2	2 1/2	3	4	6	8
Cv	14	24	81	130	230	300	480	1100	1900

Parts Listing



		Material	Qty
1	Body	PVC, CPVC, PP, PVDF	1
2	Bonnet	PVC, CPVC, PP, PVDF	1
3	Disc	PVC, CPVC, PP, PVDF	1
4	Disc Holder	PVC, CPVC, PP, PVDF	1
5	Sway Arm	PVC, CPVC, PP, PVDF	1