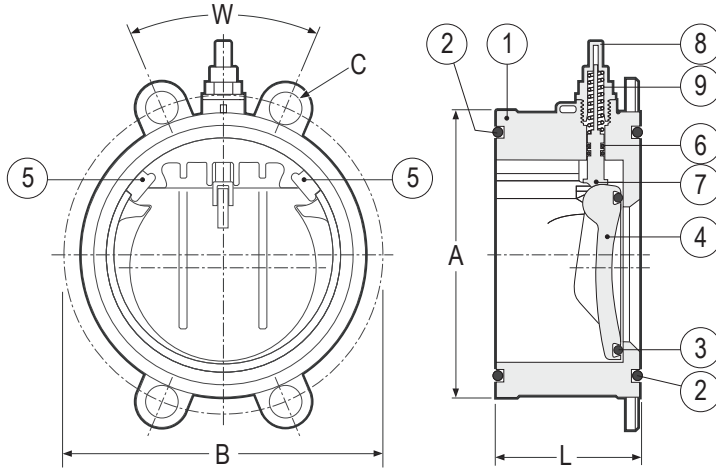


# PW Series Wafer Check Valves



## PARTS

▲ Recommended Spare Parts

No.	Part	Pcs.	Materials
1	Body	1	PVC, PP, PVDF, PPG
2▲	Body O-Ring	2	EPDM, FPM (Viton <sup>®</sup> )
3▲	Disc O-Ring	1	EPDM, FPM (Viton <sup>®</sup> )
4	Disc	1	PVC, PP, PVDF, PPG
5	Disc Retainer	2	PVC, PP, PVDF, PPG
6▲	Stem O-Ring	2	EPDM, FPM (Viton <sup>®</sup> )
7	Indicator Stem	1	PVDF
8	Indicator Cover	1	Clear ABS
9	Spring	1	304 SS

## VACUUM RATING

- Full Vacuum

## DIMENSIONS INCHES

## WEIGHTS LB.

## C<sub>v</sub> VALUES

Size	L	A	B	C	W	PVC	PP	PPG	PVDF	C <sub>v</sub> Value
3"	2.8	4.9	5.8 – 6.3	0.8	1.8	1.26	0.84	1.00	1.57	180
4"	3.2	6.1	6.9 – 7.5	0.8	1.8	1.87	1.26	1.48	2.36	400
6"	4.2	8.4	9.2 – 9.5	0.9	1.8	5.40	3.62	4.25	6.77	1,000
8"	5.5	10.4	11.4 – 11.8	0.9	1.8	6.61	5.29	6.39	8.82	2,500
10"	5.5	12.8	13.8 – 14.3	1.1	1.2	11.60	9.28	11.20	15.40	3,500
12"	7.1	14.7	15.8 – 17.0	1.1	1.2	18.90	15.20	18.20	25.10	4,500

## WORKING PRESSURES PSI

Size	PVC			PP			PPG				PVDF			
	20°C 68°F	40°C 104°F	60°C 140°F	40°C 104°F	60°C 140°F	80°C 176°F	40°C 104°F	60°C 140°F	80°C 176°F	105°C 220°F	40°C 104°F	60°C 140°F	80°C 176°F	100°C 212°F
3"	150	130	70	90	70	58	150	130	90	45	150	130	90	60
4"	150	130	70	90	70	58	150	130	90	45	150	130	90	60
6"	150	130	70	90	70	58	150	130	90	45	150	130	90	60
8"	150	130	70	90	70	58	150	130	90	45	150	130	90	60
10"	150	130	70	90	70	58	150	130	90	45	150	130	90	60
12"	150	130	70	90	70	58	150	130	90	45	150	130	90	60

Temperature Ranges: PVC 0 to 60°C (32 to 140°F), PP -20 to 90°C (-4 to 194°F), PPG -20 to 115°C (-4 to 240°F), PVDF -40 to 140°C (-40 to 284°F).

## PRESSURES TO OPEN PSI

## SEALING PRESSURES PSI

## MAXIMUM ALLOWABLE FLOW RATES

## USGPM

Size	Spring Type			Maximum Back Pressure Required to Seal (psi)	at Start-Up and Shut-Down	Running State
	50 psi	90 psi	150 psi			
3"	0.1	0.25	0.5	1.5	125	200
4"	0.1	0.25	0.5	1.5	225	300
6"	0.1	0.25	0.5	1.5	500	600
8"	0.1	0.25	0.5	1.5	650	900
10"	0.1	0.25	0.5	1.5	800	1,300
12"	0.1	0.25	0.5	1.5	900	1,700

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

## ORDERING EXAMPLE

Chemline Wafer Check Valves	PW	A	030	E
Valve Material	A - PVC G - PPG	B - PP K - PVDF		
Size	030 - 3" 080 - 8"	040 - 4" 100 - 10"	060 - 6" 120 - 12"	
Seals	E - EPDM	V - FPM (Viton <sup>®</sup> )		

Example: PW Series Wafer Check Valve, PVC, 3", with EPDM seals.

## INSTALLATION PRECAUTIONS:

- Never install the valve directly to a pump.
- Never install the valve directly to a bend or elbow.
- Install all wafer check valves a minimum distance of 5 to 10 times the nominal pipe diameter downstream of pumps, elbows or valves.