WE Series Wafer Check Valves

PVC		
SERIES:	WE	
SIZES:	2-1/2" to 8"	
SEALS:	EPDM or FPM (Viton®)	
SPRING	316 Stainless Steel	



The Chemline **WE Series** Wafer Check Valve is a non-return valve ideal for limited space installations. These valves are economical and do not require spacers. They are available in two versions – with or without disc springs. The spring adds force for faster, more silent closing.

features

Compact

- Requires little space in piping systems
- Disc opens fully when installed on ANSI Sch 80 PVC pipe

Easy Installation

- Light weight
- Wafer body slips between standard flanges
- For both ANSI and DIN flanges
- Locating ears to install valve level and centered between flanges

NSF

• Valves are certified to NSF/ANSI Standard 61 for contact with drinking water

Horizontal or Vertical Operation

Available With Disc Springs

- Faster disc closure reduces amount of back flow and consequent water hammer
- Maximum closure is obtained with low
 pressure differential
- Recommended for pulsating flows and horizontal piping

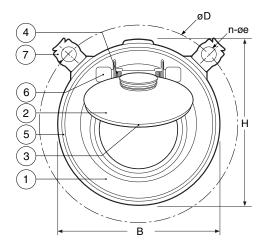
Available Without Disc Spring

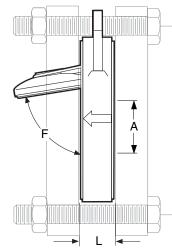
- For applications where no metals are desired
- Lower cost



Closed position

WE Series Wafer Check Valves





PAR	۲S
No.	Part
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PART	S	▲ Recommended Spare Parts			
No.	Part	Pcs.	Materials		
1	Body	1	PVC		
2	Disc/Hinge	1	PVC		
3▲	Disc O-Ring	1	EPDM, FPM(Viton®)		
4▲	Spring	1	316 SS		
5▲	Body O-Ring	2	EPDM, FPM(Viton®)		
6	Hinge Plug	2	PVC		
7	Locating Ears	2	PVC		

VACUUM RATING

• 29.9 inches mercury

INSTALLATION PRECAUTIONS

The following should be observed when assembling onto the discharge side of a pump:

- 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 of 10 times the nominal pipe diameter downstream of pumps, elbows or valves. Example: install a 4" valve 20" away from a pump discharge.

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NOTE:

• Always use valves with spring for pulsating applications and horizontal piping

WORKING PRESSURE PSI DIMENSIONS INCHES											WEIGHTS	C _V VALUES		
Size	20°C 68°F	40°C 104°F	60°C 140°F	L	А	В	с	н	n	Øe	øD	F Max. Opening	Lbs.	Cv
2-1/2″	145	72	15	0.8	1.8	4.3	1.8	4.8	2	0.75	5.50	80°	0.4	102
3″	145	72	15	0.8	2.3	4.9	2.2	5.3	2	0.75	6.00	80°	0.5	176
4″	145	72	15	0.9	2.9	5.9	2.8	6.3	2	0.75	7.50	79°	0.8	286
6″	145	72	15	1.2	4.4	8.5	4.1	8.7	2	0.88	9.50	77°	2.3	664
8″	145	72	15	1.4	5.9	10.8	5.9	10.8	2	0.88	11.75	60°	4.4	1,215

Temperature Range: PVC 0 to 60°C (32 to 140°F)

ORDERING EXAMPLE

	ine Wafer Valves	WE	А	030	E
Valve N	laterial A -	PVC			
Size	025 – 2-1/2" 060 – 6"			- 4″	
Seals	E – EPDM	V – F	PM (Viton®)	
Spring	S – 316 SS	Blan	k – without		

Example: WE Series Wafer Check Valve, PVC, 3", with EPDM seals and 316 SS spring

PRESSURE TO OPEN PSI SEALING PRESSURES (Vertical Installation)

MAX. ALLOWABLE FLOW RATES USGPM

	With	Without	With	Without	At Start-up &	
Size	Spring	Spring	Spring	Spring	Shut-Down	Running
2-1/2″	0.04	0.02	0.02	0.04	80	100
3″	0.04	0.02	0.02	0.04	130	160
4″	0.04	0.02	0.02	0.04	265	330
6″	0.05	0.03	0.03	0.05	370	460
8″	0.06	0.04	0.04	0.06	400	750

Above data is from tests using water on valves with EPDM disc o-ring

WE Series.DS.09.15.22

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