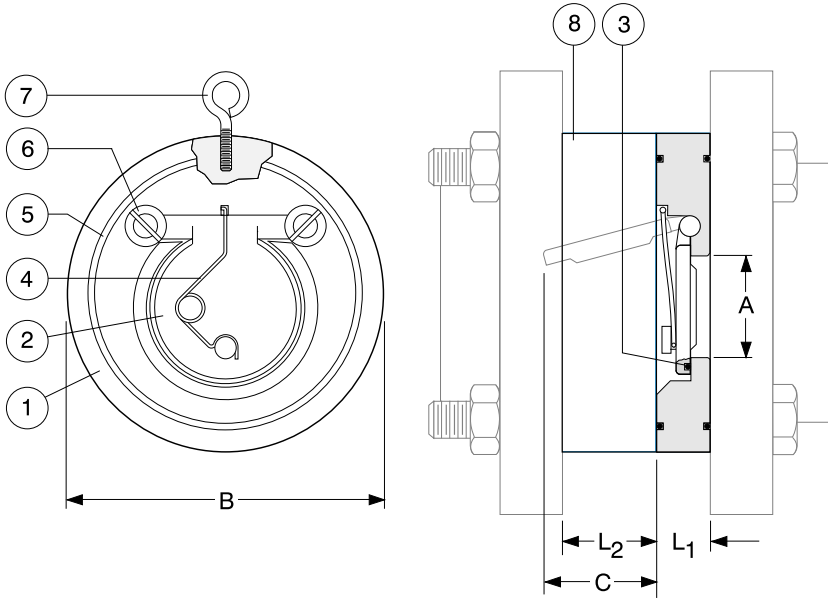


WP Series Wafer Check Valves



PARTS

▲ Recommended Spare Parts

No.	Part	Pcs.	Materials
1	Body	1	PVC, PP, PVDF
2	Disc	1	PVC, PP, PVDF
3▲	Disc O-Ring	1	EPDM, FPM (Viton [®]), Teflon [®]
4▲	Disc Spring	1	316 SS, Hastelloy [®] 1
5▲	Body O-Ring	2	EPDM, FPM (Viton [®]), Teflon [®]
6	Hinge Plug	2	PVC, PP, PVDF
7	Eye Bolt	1	304 SS
8	Spacer ²	1	PVC, PP, PVDF

¹ Hastelloy springs are normally supplied on valves with Teflon[®] O-rings. 316 SS springs are supplied with EPDM or FPM (Viton[®]) O-rings.

² Valves up to 8" require spacers for full disc opening and are supplied as standard with all PVC and PP valves. Spacers are optional for 10" and 12" valves.

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 5 to 10 times the nominal pipe diameter

downstream of pumps, elbows or valves

WORKING PRESSURE

PSI

Size	PVC & PP		PVC		PP		PVDF					DIMENSIONS INCHES			WEIGHTS LB.		C _v VALUES		
	20°C 68°F	40°C 104°F	60°C 140°F	60°C 140°F	80°C 176°F	20°C 68°F	40°C 104°F	60°C 140°F	80°C 176°F	100°C 212°F	L ₁	L ₂	A	B	C	Without Spacer	With Spacer	Sch 40 Without Spacer	Sch 80 With Spacer
2"	145	130	65	50	20	145	140	130	100	60	0.8	1.0	1.3	4.1	1.8	0.5	0.9	58	74
2-1/2"	145	130	65	50	20	145	140	130	100	60	0.8	1.5	1.6	4.8	2.0	0.6	2.1	77	108
3"	145	130	65	50	20	145	140	130	100	60	0.8	1.6	2.0	5.4	2.9	0.7	1.6	105	203
4"	145	110	50	50	20	145	140	130	100	60	0.9	2.0	2.8	6.5	3.6	1.1	3.1	224	300
6"	145	110	45	50	20	145	140	110	90	60	1.0	2.0	4.4	8.7	5.8	2.3	4.7	718	949
8"	100	87	45	30	15	100	100	87	68	30	1.4	3.5	5.9	10.9	7.5	4.5	11.0	980	1,175
10"	87	60	36	30	15	87	87	60	45	30	1.6	3.9	7.5	13.0	9.0	7.0	17.4	1,880	2,050
12"	87	60	36	30	15	87	87	60	45	30	1.8	5.9	8.5	15.0	10.2	11.5	28.3	2,520	2,940

Working pressures of PVC and PP valves fitted with Teflon[®] 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 -40 to 120°C (-40 to 250°F).

ORDERING EXAMPLE

Chemline Wafer Check Valves		WP	A	030	E	S
Valve Material	A - PVC K - PVDF	B - PP				
Size	020 - 2"	025 - 2-1/2"				
	030 - 3"	040 - 4"				
	060 - 6"	080 - 8"				
	100 - 10"	120 - 12"				
Seals	E - EPDM P - Teflon [®]	V - FPM (Viton [®])				
Spring	S - 316 SS H - Hastelloy [®]	Blank - without				

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

PRESSURE TO OPEN

PSI

SEALING PRESSURES

MAXIMUM ALLOWABLE FLOW RATES

USGPM

Size	With Spring		Without Spring	With or Without Spring	At Start-Up & Shut-Down	
	Horiz.	Horiz.	Vert.		Down	Running
2"	0.3	0.1	0.2	1.0	50	60
2-1/2"	0.3	0.1	0.2	1.0	70	80
3"	0.3	0.1	0.2	1.0	110	125
4"	0.3	0.1	0.2	1.0	200	250
6"	0.3	0.1	0.2	1.0	320	400
8"	0.3	0.1	0.3	1.0	400	750
10"	0.3	0.1	0.3	1.0	600	1100
12"	0.3	0.1	0.3	1.0	750	1,500

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

