

- Compact – requires little space in piping systems
- Light weight, easy to install – wafer body slips between standard Sch 80 flanges. **Note: Spacer required for 8” size only.**
- Pressure to open 0.30 psi, back pressure to close 1.0 psi
- Vacuum rating: 29.9 Hg (inches mercury)
- Spring dampens the opening and closing action, avoiding water hammer and extending the life of the valve.
- Recommended for horizontal and vertical piping
- Serviceable – repair parts and replacement o-rings are available.
- **Install between Class 150 Flanges using Gaskets . Gaskets are included.**

### Materials

- PVC with EPDM o-ring, 316 SS Spring

Used in:

Industrial Process Piping  
 Commercial Swimming Pools  
 Water Parks  
 Aquaculture  
 Aquarium & Zoo support systems  
 Pulp & Paper  
 Landfill piping  
 Marine & other Salt Water applications  
 Water & Wastewater Treatment



The Wafer Check Valve is a non-return valve ideal for limited space installations. The 601NP series is offered for pipe sizes 8 - 12". Equipped with SS spring which can be removed if desired.



8” requires spacer for full disc opening with Sch 80 flanges. Gasket included.

### Sample Engineering Specifications:

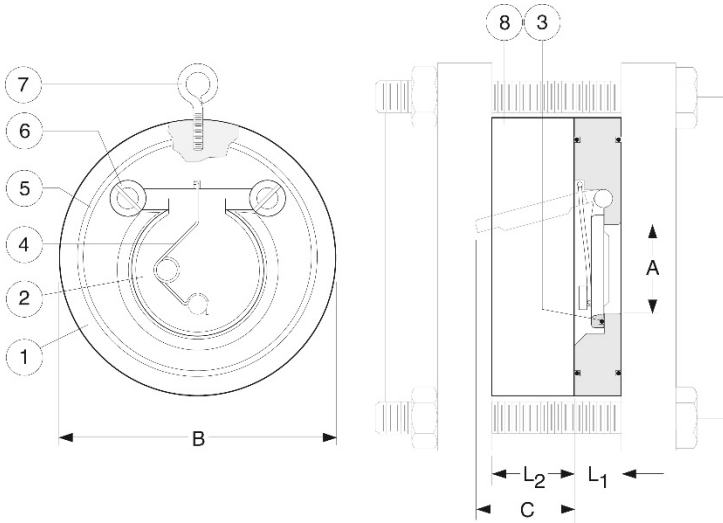
All wafer check valves shall be produced of PVC Type I, cell classification 12454. Valves shall have a single disc design suitable for either horizontal or vertical installations. Valves shall be wafer style conforming to ASME/ANSI B16.1 face-to-face dimensions for Class 150 flanges. O-ring seals of either EPDM or FKM. A 316 Stainless Spring is included to dampen the movement of the disc to prevent water-hammer. Valves shall be rated to 145 psi (2-1/2 - 6”), 100psi (8”), and 87 psi (10 & 12”) non-shock water at 73 degrees F.

**Colonial 601 & 601NP Series Wafer Check**



REV 9/21/18

**601 NP SERIES WAFER CHECK VALVE 8 – 12”**



ITEM	DESCRIPTION	Qty	MATERIAL
1	Body	1	PVC
2	Disc/ Hinge	1	PVC
3	Disc o-ring	1	EPDM
4	Spring	1	316 SS
5	Body o-ring	2	EPDM
6	Hinge Plug	2	PVC
7	Eye Bolt	1	304 SS
8	Spacer	1	PVC

Dimensions (in.)

SIZE	8	10	12
A	5.90	7.50	8.50
B	10.90	13.00	15.00
C	7.50	9.00	10.20
L1	1.40	1.60	1.80
L2	3.50	NA	NA

De-rate pressure for elevated process temps per the chart below:

SIZE	Part Number	Desc	Ctn Qty	Wgt (lbs)	Cv* Values	Working Pressure*1
8	V80601NP	Valve PVC/EPDM	1	4.50	1175	100
8	V80601NPS	Spacer PVC/EPDM	1	6.50	1175	100
10	V100601NP	Valve PVC/EPDM	1	7.00	1880	87
12	V120601NP	Valve PVC/EPDM	1	11.50	2520	87

Temp (°F)	PVC
73	1.00
80	0.88
90	0.75
100	0.62
110	0.50
120	0.40
130	0.30
140	0.22
150	NR

- \*GPM of water at 1 psi pressure drop.
- \*1 PSI at 73° F non-shock water

**INSTALLATION PRECAUTIONS:**

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

- Never install the valve directly to a pump, a bend or an elbow.
- Be sure to install with the Flow Arrow in the proper direction.
- Install all wafer check valves a minimum of 5 times the nominal pipe diameter **downstream** of pumps, elbows or valves.

NOTE: Do not use the valves without springs for pulsating applications.

**Do not use with compressed air or gas.**

