

- Compact – requires little space in piping systems
- **No spacer required** when installed between two PVC Schedule 80 Flanges
- Light weight, easy to install
- Pressure to open 0.30 psi, back pressure to close 1.0 psi
- Vacuum rating: 29.9 Hg (inches mercury)
- Spring (316SS) 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.
- Materials used to manufacture this valve are NSF-61 approved for potable water.

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 10 - 12". Equipped with SS spring which can be removed if desired.



601 NP SERIES WAFER CHECK VALVE 10 – 12"

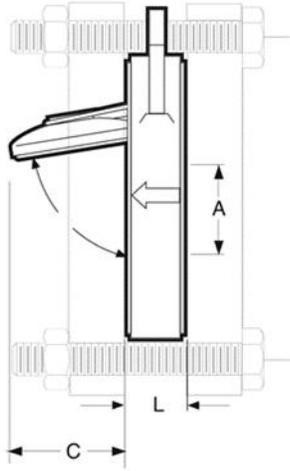
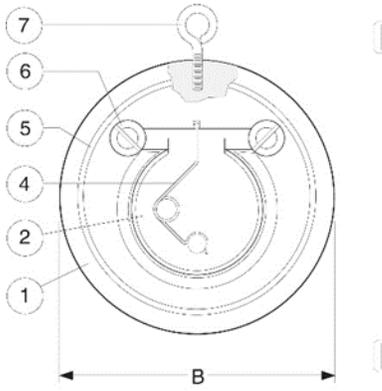
Sample Engineering Specifications:

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 1/28/22 NSF materials note



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

Dimensions (in.)

SIZE	10	12
A	7.50	8.50
B	13.00	15.00
C	9.00	10.20
L	1.60	1.80

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

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

SIZE	Part Number	Desc	Ctn Qty	Wgt (lbs)	Cv* Values	Working Pressure*1
10	V100601NP	Valve PVC/EPDM	1	7.00	1880	87
12	V120601NP	Valve PVC/EPDM	1	11.50	2520	87

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

Bolt Sets for Wafer Check Valve Installation –

The correct quantity of Bolts, washers, and nuts properly sized for the installation of a PVC Wafer Check valve between two PVC flanges.



Size	Part Number (Galvanized)	Part Number (304 SS)
10	V100WCKG	V100WCKS
12	V120WCKG	V120WCKS

INSTALLATION PRECAUTIONS:

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

- 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.
- Do not use the valves without springs for pulsating applications.
- **Do not use with compressed air or gas.**

