

# V210

## NOZZLE CHECK VALVE



### Product Description

TVN V210 Nozzle Type Check Valves are used in applications where the reverse flow of a fluid has to be avoided. These valves are suitable for all kind of liquid and gaseous fluid and are safe by design. Lightweight discs and spring assisted closure combine to allow the Nozzle Check Valve to maintain the same high performance regardless of vertical or horizontal installation.



Technical Data	
Size range	DN100 - DN1000
Pressure range	PN 10 -16 - 25
Temperature	-10°C to +110 °C
Design	EN 593
Face to face	EN 558 Series 14 / DIN 3202 F4
Flange drilling	EN 1092-2 / ISO 7005-2
Coating	Electrostatic Powder Epoxy
Testing	EN 12266-1
Marking	EN 19

### Application Range

- Water & hot water systems
- Steam applications
- Reservoir Lakes
- Suction Lines

### Related Products

- V106 Double Eccentric Butterfly Valve
- V151 Gate Valve
- V852 Basket Strainer
- V251 Dismantling Joint



IRRIGATION



POTABLE WATER

# V210

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### Product Features

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- Nozzle check valves with bodies notably larger in diameter than their inlets display the best flow characteristics.
- The disc faces for all of our nozzle check valves are designed to maximize hydrodynamic efficiency and minimize pressure loss.
- All nozzle check valves from TVN, feature soft seat, a specially designed and sourced O-ring installed in the seat of the valve. Soft seat drastically reduces reverse flow leakage and aids the quiet closing of the valve.
- TVN nozzle check valves use only one spring designed for a million cycle life time in the body, as opposed to most other companies, which use multiple springs. Minimizing the number of springs reduces the potential for failure.
- Long service life, with minimum level of maintenance requirement.
- Suitable for horizontal and vertical installations.
- Minimizes water hammer effect in system
- Directional application, please check the arrow mark on the body for correct direction
- Flange connections according to EN1092-2 / ISO 7005-2.
- Hydrostatic test pressure for seat:  $PN \times 1.1$  (e.g.:  $PN 16 = 17.6$  bar); for shell:  $PN \times 1.5$  (e.g.:  $PN16 = 24$  bar) according to EN 12266-1.



\*V210 Nozzle Check Valve with various types of interior mechanism is available.

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### Material List



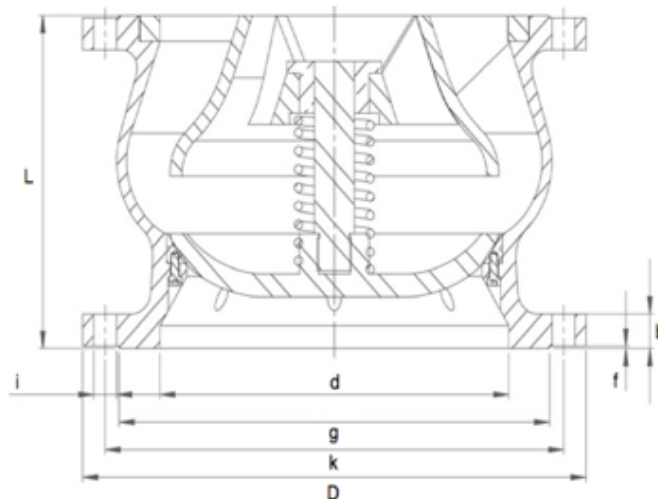
No	Part	Material
1	Body	GGG50 Ductile Iron
2	Body Seat	Bronze
3	Disc	AISI 304 Stainless Steel
4	Spring	AISI 316 Stainless Steel
5	Stem	AISI 420 Stainless Steel
6	Disc Retainer	GGG50 Ductile Iron
7	Bushing	Bronze
8	Bolts	A2 (AISI 304 Stainless Steel)

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### Dimensions Table



PN 10												
DN mm	200	250	300	350	400	450	500	600	700	800	900	1000
L	230	250	270	290	310	330	350	390	430	470	510	550
D	340	400	455	505	565	615	670	780	895	1015	1115	1230
k	295	350	400	460	515	565	620	725	840	950	1050	1160
g	266	319	370	429	480	530	582	682	794	901	1001	1112
d	200	250	300	350	400	450	500	600	700	800	900	1000
b	20	22	25	25	25	26	27	30	33	35	37.5	40
f	3	3	4	4	4	4	4	5	5	5	5	5
Number of holes	8	12	12	16	16	20	20	20	24	24	28	28
i	23	23	23	23	28	28	28	31	31	34	34	37
KG	65	70	80	130	146	178	218	375	425	600	780	1250

PN 16												
DN	200	250	300	350	400	450	500	600	700	800	900	1000
L	230	250	270	290	310	330	350	390	430	470	510	550
D	340	400	455	520	580	640	715	840	910	1025	1125	1255
k	295	355	410	470	525	585	650	770	840	950	1050	1170
g	266	319	370	429	480	548	609	720	794	901	1001	1112
d	200	250	300	350	400	450	500	600	700	800	900	1000
b	20	22	25	27	28	30	32	36	40	43	46.5	50
f	3	3	4	4	4	4	4	5	5	5	5	5
Number of holes	12	12	12	16	16	20	20	20	24	24	28	28
i	23	28	28	28	31	31	34	37	37	41	41	44
Unit Weight (kg)	65	70	80	130	146	178	218	375	425	600	780	1250