

# V302

## TRIPLE FUNCTION DOUBLE ORIFICE AIR RELEASE



### Product Description

TVN V301 Dynamic Triple Function Air Release Valve is a unique valve operating without a float, utilizing the rolling diaphragm principle. This unique structure allows the dynamic valves to discharge air from the water system in a controlled and gradual manner, preventing slam and local up-surges. When vacuum occurs, the valves fast reaction will draw in large volumes of air into the water system, impeding down-surges and, consequently, all pressure surges in the line. The valves are normally closed when the line is not operating, thus preventing the infiltration of foreign particles and insects into the water system.



Technical Data	
Size range	DN50 - DN300
Pressure range	PN 10 -16 - 25
Temperature	-10°C to +130 °C
Design	EN 1074 - 4
Connection	EN 1092-2 ISO 7005-2
Coating	Thermoplastic Powder Epoxy
Testing	EN 12266-1
Marking	EN 19
Operation	Automatic

### Application Range

- Water transmission
- Water distribution
- Pump suction line
- Peaks and bottom points
- Next to by-pass valve

### Related Products

- V151 Gate Valve Resilient Seated
- V106 Butterfly Valve Flanged
- V251 Dismantling Joint



IRRIGATION



POTABLE WATER

# V302

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### Product Features

- Float parts made of polyethylene, increase the corrosion resistance, hence increases service life.
- The polyethylene floats gives advantage for easier replacement.
- Ductile iron body increases the resistance against impacts.
- It is necessary to use air release valves on the peak points of the pipelines, in order to maintain the full flow of the water.
- If the air vacuum via air release valve is less than the discharged water amount, the pipeline will face the risk of torsion.
- Fully coated body and bonnet, meets the hygienic requirements of the potable water networks. (WRAS coating optional)
- Double orifice air release valve is installed on the pipe by a flange, release the air received from its outlet through the orifices located above the float parts.
- When the air release function is completed, the floats travel upper part with the water force and close the orifice outlet, thus preventing the leakage of water.
- Flange connections according to EN1092-2/ISO 7005-2. Working pressure range from 0.2 to 16 bar.
- Hydrostatic test pressure for seat: PN x 1.1 , for shell: PN x 1.5 according to EN 12266-1.



\*V302 Triple Function Air Release Valve is a available for OEM branding alternative.

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### Material List & Dimensions Table



Item No	Part	Material
1	Body	GGG40/50 Ductile Iron
2	Body Cover	GGG40/50 Ductile Iron
3	Cap	GGG40/50 Ductile Iron
4	Guiding Rails	AISI 304 Stainless Steel
5	Centering Circle	AISI 304 Stainless Steel
6	Mesh	AISI 304 Stainless Steel
7	Top Cap	AISI 304 Stainless Steel
8	Bolt	8.8 / A2 / A4
9	Ball (Optional)	HDPE / AISI 304
10	Float	HDPE
11	Sealing	EPDM / NBR

DN	Dimensions								
	PN 10				PN 16				PN10-16
mm	D	k	l <sub>xn</sub>	Unit Weight (kg.)	D	k	l <sub>xn</sub>	Unit Weight (kg.)	H
50	165	125	19x4	21	165	125	19x4	21	230
65	185	145	19x4	22	185	145	19x4	22	245
80	200	160	19x8	26	200	160	19x8	26	265
100	220	180	19x8	31	220	180	19x8	31	290
125	250	210	19x8	40	250	210	19x8	40	310
150	285	240	23x8	54	285	240	23x8	54	330
200	340	295	23x8	82	340	295	23x12	85	390
250	400	350	23x12	103	405	355	28x12	111	430
300	455	400	23x12	115	460	410	28x12	123	470

\*The dimensions might be indicative. TVN Company has the right to change the design of the valves without any notification.