

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

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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 available for OEM branding alternative.

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Material List & Dimensions Table



Item No	Part	Material
1	Body	GGG50 Ductile Iron
2	Body Cover	GGG50 Ductile Iron
3	Top Body	GGG50 Ductile Iron
4	Top Body Cover	GGG50 Ductile Iron
5	Bottom Cover	GGG50 Ductile Iron
6	Mesh	AISI 304 Stainless Steel
7	Top Cap	AISI 304 Stainless Steel
8	Bolt	8.8 / A2 / A4
9	Bottom Ball	AISI 304 Stainless Steel
10	Top Ball	AISI 304 Stainless Steel
11	Pipe	Galvanized Steel
12	O-Ring	EPDM / Nitrile

DN	Dimensions									
	PN 10				PN 16				PN10-16	
mm	D	k	l _{xn}	Unit Weight (kg.)	D	k	l _{xn}	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	