

# V302

## TRIPLE FUNCTION DOUBLE ORIFICE AIR RELEASE



### Product Description

TVN V302 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 - 40
Temperature	-10°C to +130 °C
Design	EN 1074 - 4
Connection	EN 1092-2 ISO 7005-2
Coating	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.



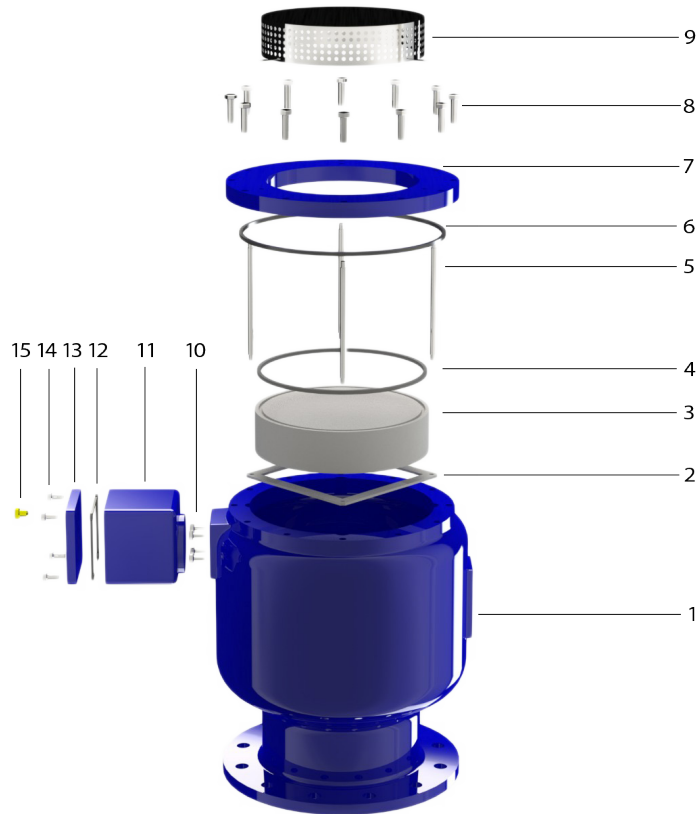
\*V302 Triple Function Air Release Valve is available for OEM branding alternative.

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### Dimensions Table



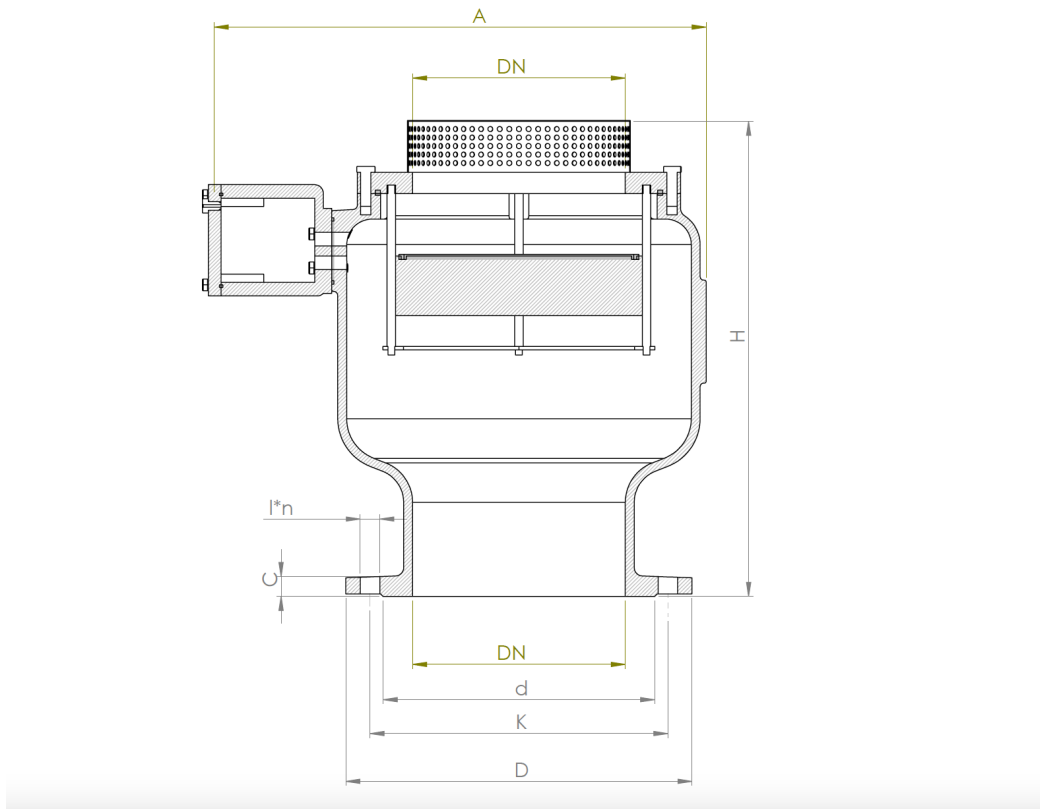
Item No	Part	Material
1	Body	Ductile Iron GGG40/50
2	Float Guide	Stainless Steel 304 / 316
3	Float	PE / AISI 304 (Optional)
4	Float Sealing	EPDM / NBR
5	Guide Pin	Stainless Steel 304 / 316
6	Bonnet Sealing	EPDM / NBR
7	Bonnet	ST 37 / GGG40
8	Bolts	8.8 / A2 / A4
9	Filter	Stainless Steel 304 / 316
10	Bolts	8.8 / A2 / A4
11	Second Orifice	Ductile Iron GGG40/50
12	Sealing	EPDM / NBR
13	Orifice Cover	ST 37 / GGG40
14	Bolts	8.8 / A2 / A4
15	Discharge Nipple	Brass MS58

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### Material List



PN10								
DN	f	D	K	d	C	l*n	H	A
50	3	165	125	99	19	19*4	260	310
65	3	185	145	118	19	19*4	270	320
80	3	200	160	132	19	19*8	280	330
100	3	220	180	156	19	19*8	310	360
125	3	250	210	184	19	19*8	330	380
150	3	285	240	211	19	23*8	380	440
200	3	340	295	266	20	23*8	525	550
250	3	405	350	319	22	23*12	590	740
300	4	460	400	370	24,5	23*12	650	800

PN16								
DN	f	D	K	d	C	l*n	H	A
50	3	165	125	99	19	19*4	260	310
65	3	185	145	118	19	19*4	270	320
80	3	200	160	132	19	19*8	280	330
100	3	220	180	156	19	19*8	310	360
125	3	250	210	184	19	19*8	330	380
150	3	285	240	211	19	23*8	380	440
200	3	340	295	266	20	23*12	525	550
250	3	405	355	319	22	28*12	590	740
300	4	460	410	370	24,5	28*12	650	800

PN25								
DN	f	D	K	d	C	l*n	H	A
50	3	165	125	99	19	19*4	270	310
65	3	185	145	118	19	19*4	280	320
80	3	200	160	132	19	19*4	290	330
100	3	235	190	156	19	23*8	320	360
125	3	270	220	184	19	28*8	340	380
150	3	300	250	211	20	28*8	390	440
200	3	360	310	274	22	28*12	540	550
250	3	450	370	330	24,5	31*12	600	740
300	4	485	430	389	27,5	31*12	670	800

PN40								
DN	f	D	K	d	C	l*n	H	A
50	3	165	125	99	19	19*4	270	310
65	3	185	145	118	19	19*4	280	320
80	3	200	160	132	19	19*8	290	330
100	3	235	190	156	19	23*8	320	360
125	3	270	220	184	23,5	28*8	340	380
150	3	300	250	211	26	28*8	390	440
200	3	375	320	284	30	31*12	540	550
250	3	450	385	345	34,5	34*12	600	740
300	4	515	450	409	39,5	34*12	670	800