

Application

The Tank Vent is used as a breather valve to avoid vacuum or overpressurization inside a tank or piping system.

Working Principle

When the pressure in a tank goes below atmospheric pressure the valve sucks in air to reach equilibrium with atmospheric pressure. When the pressure inside of a tank goes above atmospheric pressure the assembly moves up and releases the pressure to reach equilibrium with atmospheric pressure.

Standard Design

A light weight seat-seal assembly with calibrated spring is enclosed in a special polymer bushing. The bushing is guided in a stainless steel housing.

Available sizes

1.5", 2", 2.5", 3", 4", 4" Jumbo
DN40, DN50, DN65, DN80, DN100 Jumbo

Options

End connections: Sanitary Clamp End
Weld End

Material: AISI 316L or AISI 304L

*3A Approved



Material :

Main steel parts	AISI 316L or AISI 304L
Other steel parts	AISI 304

FDA Seals :

Standard	SILICONE
Optional	VITON EPDM

Bushing :	POM
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Nominal Pressure :

Vacuum break : 0.09 PSI
Positive Pressure : 1PSI

Flow Capacity

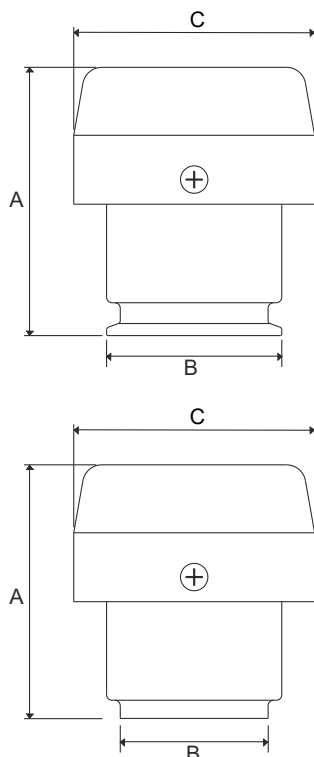
1.5" - 2"	- 250 Gpm
2.5" - 4"	- 550 Gpm
4" Jumbo	- 1100 Gpm

DN40 - DN50	- 250 Gpm
DN65 - DN100	- 550 Gpm
Dn100 Jumbo	- 1100 Gpm

Surface Finish :

Standard Finish	Ra <= 25μ in (Grit 220g)
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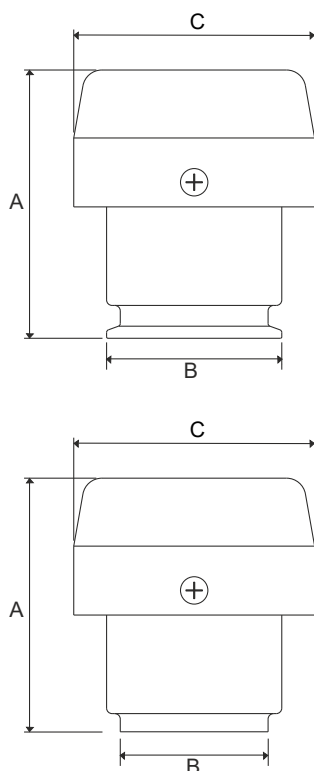
Connections	Sanitary Clamp (ISO 2852 / BS 4825) Weld End
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Dimensions ISO (mm)

Sanitary Clamp

Dimensions	1½"	2"	2 ½"	3"	4"	4" J
A	101.6	101.6	101.6	101.6	101.6	101.6
B	50.8	64.3	77.8	90.5	119.0	119.0
C	88.1	88.1	119.0	119.0	119.0	146.0

Weld End

Dimensions	1½"	2"	2 ½"	3"	4"	4" J
A	101.6	101.6	101.6	101.6	101.6	101.6
B	38.1	50.8	63.5	76.2	101.6	101.6
C	88.1	88.1	119.0	119.0	119.0	146.0

Dimensions DIN (mm)

Sanitary Clamp

Dimensions	DN40	DN50	DN65	DN80	DN100	DN100 J
A	101.6	101.6	101.6	101.6	101.6	101.6
B	89	89	89	108	108	108
C	88.1	88.1	119.0	119.0	119.0	146.0

Weld End

Dimensions	DN40	DN50	DN65	DN80	DN100	DN100 J
A	101.6	101.6	101.6	101.6	101.6	101.6
B	41	53	70	85	104	104
C	88.1	88.1	119.0	119.0	119.0	146.0

645 Series Tank Vent Ordering System
