

# AUTONOMOUS ULTRA CLEAN VENT HSV Type



## Application

The autonomous ultra-clean vent HSV type is a safety equipment.

It is designed for various applications such as food & brewages industries, or any other industry needing hygienically tailored equipments.

Its vacuum side is oversized regarding the « overpressure » one, to allow a large air flow rate in vacuum at a given time, necessary when the temperature suddenly changes, as it is the case with cold water after a hot CIP.

Its many options (inert air inlet, cleaning in place, heating protection, drip collector, anti insects filter & opening detection in vacuum) give the HSV the ability to be a complete & fully adaptable answer for inert tanks' safety.

## Operating principle

The BOG valve comprises a cylindrical body receiving a stainless steel customized calibrated valve (down to 5 mbar) on the vacuum side and another stainless steel valve on the pressure side loaded with a spring to provide a customized calibrated pressure. The seal on the "pressure side" seats is provided by special "low pressure" ethylene-propylene (EPDM) rings.

The autonomous ultra-clean vent HSV type is PED approved, and provided with CE mark.

## GENERAL INFORMATION

Tank equipment in accordance with European pressure equipment directive 97/23/CE paragraph 3.3.

The ultra clean relief valve is stamped with a SERVINOX self adhesive and marked with the manufacture serial number.

This manual corresponds to the instructions for use of the ultra clean relief valve.

## TECHNICAL DATA

### Materials

Product wetted steel parts ..... : Inox 1.4404(316L)  
Product wetted seals ..... : VITON/EPDM

### Data

Calibration pressure ..... :  
..... 0.05 to 4 bars (regarding diameters)  
Standard calibration vacuum . : - 5 mbar  
Product temperature ..... : +10°C to 95°C  
Cleaning pipe orientation..... : 180 °

### Options

Cleaning pipe standard orientation,  
Sterile air inlet,  
Dripping collector,  
Anti-insect filter ; drilled pipe DN 1.5,  
Heating resistances :

## Hydraulic connection

Sizes	Pressure function	Vacuum function
DN100/65		
DN150/100		
DN250/150	2x600 W – 230 V	500 W – 230 V
DN320/150	2x600 W – 230 V	1000 W – 230 V

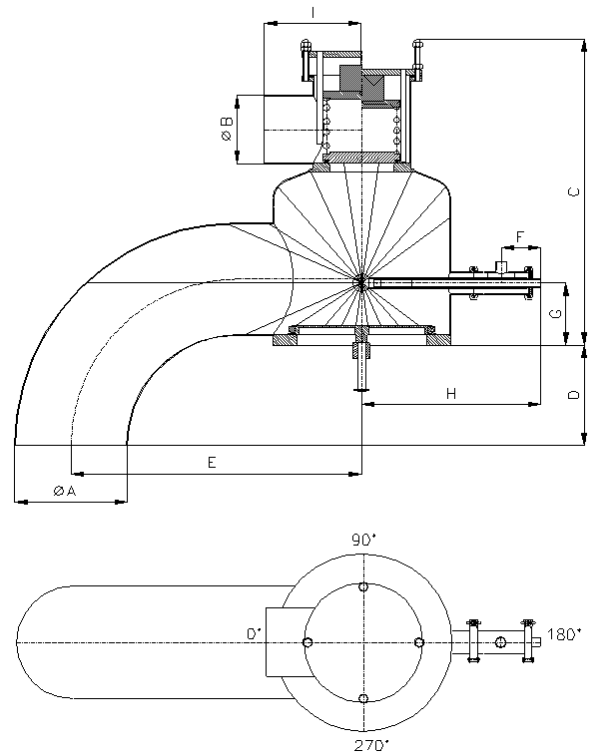
## DIMENSIONS

### Sizes

The valve is available in the following sizes (first diameter correspond to pressure function and second diameter to vacuum function) :

- DN100/65, DN150/100, DN250/150 et DN320/150.

### Dimensions



Dimensions shown in the chart are given in mm :

Sizes	A	B	C	D	E	F
DN100/65	104x2	70x2	394	131	350	89
DN150/100	154x2	104x2	485	129	400	89
DN250/150	254x2	154x2	690	226	654	89
DN320/150	324x2	154x2	815	271	807	89

Sizes	G	H	I
DN100/65	100	304	120
DN150/100	125	329	150
DN250/150	140	402	220
DN320/150	180	452	220

Installation:

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## SERVINOX

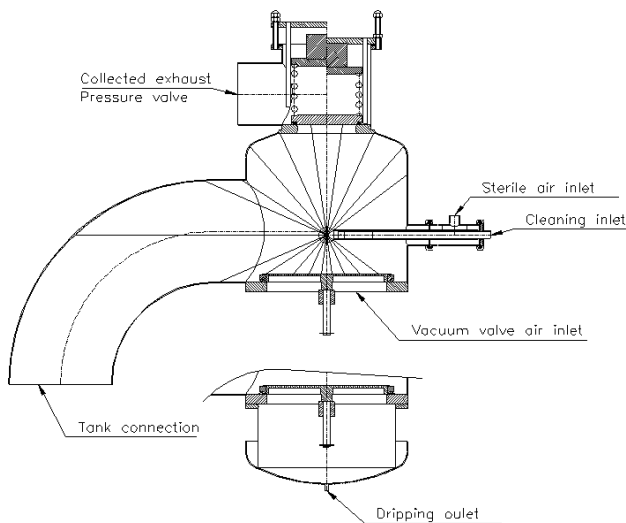
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The cleaning pipe connection is to be welded, pipe diameter to be connected to be 20 x 1.6 mm. A connection is to be imperatively fitted on the inlet piping for easy removing of cleaning pipe.

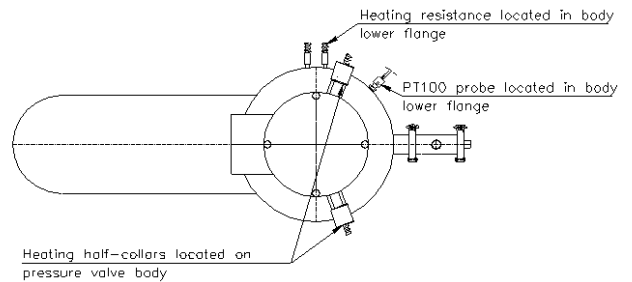
In the case a valve with sterile air inlet is concerned, a T-piece is to be placed between cleaning inlet and valve. A connection is to be fitted on the sterile air inlet pipe for easy removing of T-piece.

In the case a valve with dripping collector is concerned, the pipe diameter to be connected to be 10 x 1 mm. A connection is to be imperatively fitted on the piping for easy removing of cleaning pipe.



## Electrical connection

In the case a valve with heating resistances is concerned, the heating resistance wires as well as both heating half-collars wires to be 3 meters long. Power and voltage figures are given in the chart under chapter "Technical data". They are protected by a flexible metallic covering. The temperature probe PT100 is equipped with a 3-wire cable 2.5 meters long.



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