

EUP the ultra-clean vent

to secure the “breath” of your tanks



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EUP, the ultra-clean vent to secure the "breath" of your tanks



Pierre Guerin has designed a new range of automatic and secure ultra-clean vents for atmospheric and pressurised tanks (3 bar g).

The innovative design focuses on an optimal cleaning in place. Dimensions are reduced compared to previous versions providing an effective performance in terms of cleaning in place, spray balls are welded in order to avoid risk of dropping in to the tank and dimensioned for each model limiting total flow for the cleaning.

The counterweight has been eliminated and the vacuum release plug has been installed set up toward the atmospheric side.

This vent enables running during the processing period under an over-pressure of gas (filtered air or nitrogen), and automatically opens during CIP period to protect the tank against vacuum or overpressure.



Technical features

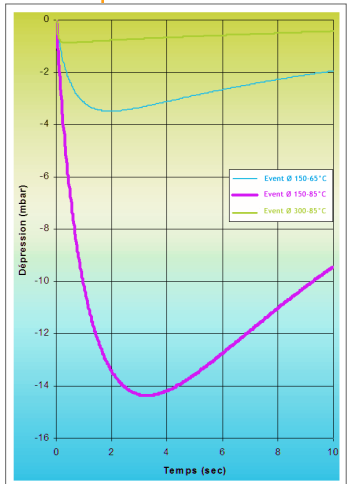
- sanitary, body made in 316L stainless steel, seals viton
- pressure valve, graduated from 0,05 to 0,5 bar g and from 0,5 to 3 bar g depending on model
- vacuum-plug graduated at 0,003 bar g, protected by an anti-mosquito screen to the atmosphere
- cleaning flow: 2.7 m³/h to 2 bar g
- one plain end for filtered air or nitrogen.

Running conditions

Vents DN 150 / DN 300	Atmospheric	DESP design
Maximum running pressure	0.5 bar	3 bar
Running range temperature	+10°C à +85°C	+10°C à +143°C

Dimensions & weights

	Lenght (mm)	Height (mm)	Weight (kg)
DN 150	504	567	30
DN 300	703	764	60



Calculation of the ultra-clean vent

Selection is made depending on following parameters:

- tank characteristics (capacity & thickness)
- process conditions (unloading flow)
- cleaning conditions (flow and temperatures).

Pierre Guerin has developed a software tool «Météo Cuve» using the relevant data above, that allows for the selection of the most suitable model to the intended application.

User benefits/tilisateurs

- **security**: the over-dimensioned vacuum-plug completely protects the tank against vacuum during cleaning period.
- **autonomous**: vacuum release plug and pressure valve are fully autonomous (no special electrical or pneumatic control is necessary).
- **cleaning-in-place**: vacuum release plug and pressure valve are cleaned, both inside and out, during the same period of tank cleaning.
- **compact** : designed as a 'technical pipe', this device minimizes the number of plain ends on the top of the tank.

Applications

For all types of tanks clean-in-place.

- Several applications being -

- yogurts & milk desserts
- fruits juice
- vegetable oil
- shampoo

or every product sensitive to oxidation, etc...

Options

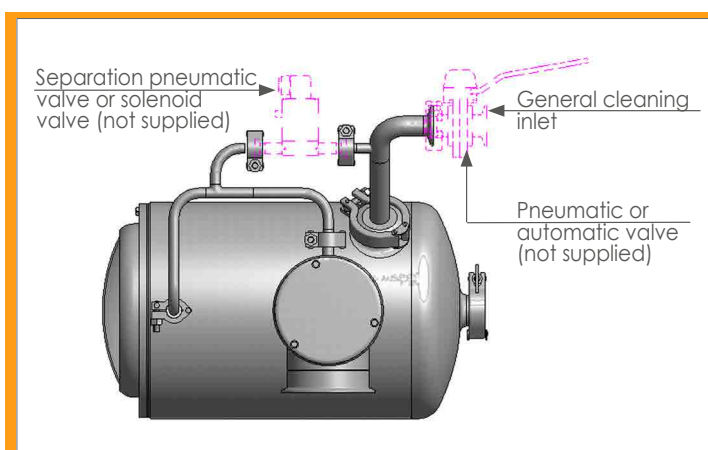
- second pressure valve if necessary (for important tank's volume)
- electrical cable resistant to freezing.



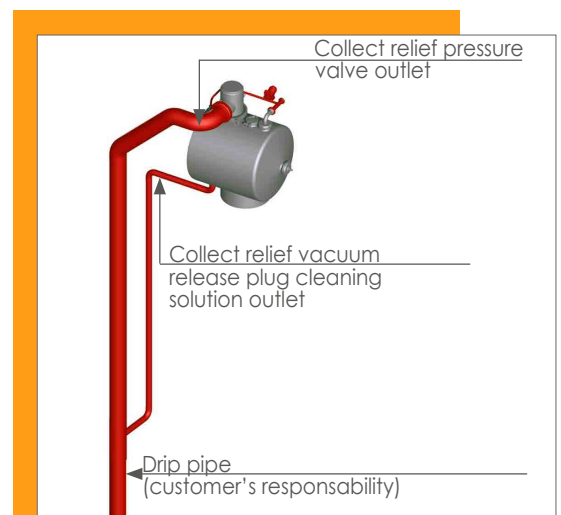
CIP solutions inlet connections



Evacuation connections



General pipe connections for CIP solutions
(options)



Drip drain pipe
(not supplied)

PIERRE GUERIN

TECHNOLOGIES

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