TANK EQUIPMENT

SAFETY



SAFETY VALVE

BOG

Gillain & Co
HYGIENIC EQUIPMENT FOR FOOD & LIFE SCIENCES

- COMBINED PRESSURE/VACUUM
- WIDE RANGE OF VERSIONS AND ACCESSORIES
- EASY, FAST AND ECONOMICAL MAINTENANCE
- LOW PRESSURE LEAK TIGHTNESS
- TECHNICAL SUPPORT FOR DIMENSIONING
- HYGIENIC DESIGN



SERVINOX

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APPLICATION:

BOG safety valves are tank safety devices (tanks not covered by PED 97/23/CE, with a working pressure < 0.5 bars)
Depending on the model chosen, BOG safety valves protect low pressure tanks from overpressure and vacuum (breaking vacuum)
SERVINOX possesses design tools to dimension a valve with respect to tank characteristics (diameter, height), its resistances (pressure and vacuum) and washing conditions (temperature, flow-rate)
BOG safety valves are designed only to transport gases; if the valve is actuated, it must be removed and cleaned manually.

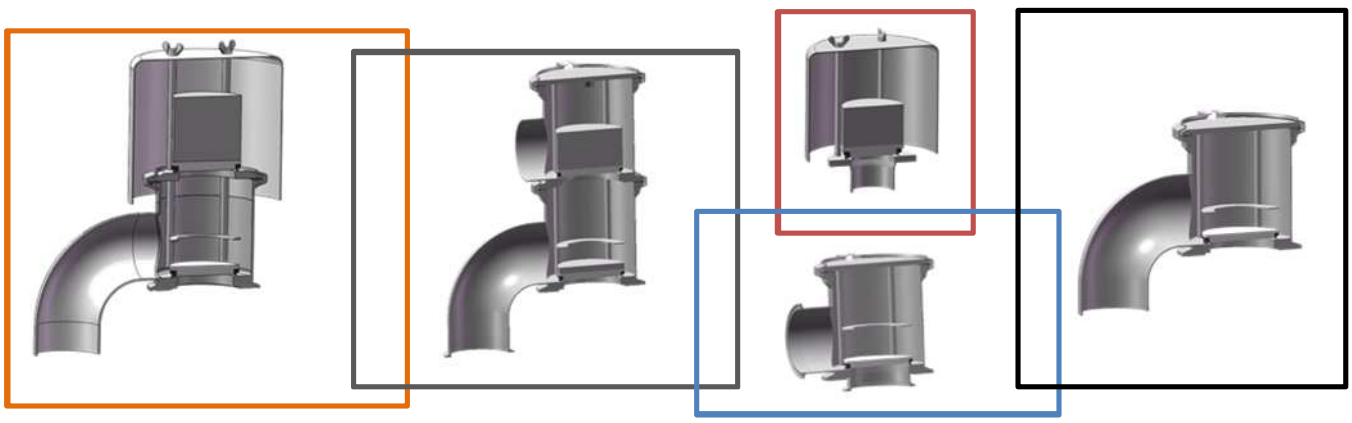
TECHNICAL DATA:

Materials:

Parts in contact with product: 1.4404 stainless steel (316L)
Gaskets: EPDM
Discs: PTFE

Characteristics:

BOG safety valves are proposed in ND 40, 65, 100 and 150, compliant with most connection standards (DIN, SMS, OD, ISO; for ISO, ND 32, 50, 80 and 125).
This equipment it totally autonomous, requiring no external control for its operation.
In the standard version, pressure calibration is done with a stainless steel weight mounted on a PTFE disc, vacuum calibration is with a PTFE disc and pressure blowoff is not collected.
In the standard version, pressure calibration must be between +2 and +50 mbars, and vacuum calibration is set at -2 mbars (for other calibrations, see the "Options" section); connections are welded
In the standard version, the valves are designed to operate at a maximum pressure of 0.5 bars, and at a maximum temperature of 120°C.
Elastomers and plastics used are US FDA compliant.



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OPTIONS:

- Pressure blowoff collected
- ATEX version 94/9/CE, zones 1 & 2, gases and dust (requires the pressure blowoff collection option)
- Protection against freezing by a temperature probe, heater cable and thermostat, to ensure valve operation at outdoor temperatures lower than 0°C
- Dripping collector and vacuum insect trap filtration
- Washing nozzle (requires the dripping collector and insect trap filter)
- SMS 25 male connector on elbow for sterile air admission, enabling the use of a single tank tap for protection (pressure and/or vacuum) and to create an inert atmosphere
- Inductive opening detection (PNP/NPN programmable) in vacuum
- Pressure calibration with spring (60 to 490 mbars), requires the pressure blowoff collection option
- Vacuum calibration by stainless steel weight, from -5 to -50 mbars
- Vacuum calibration by external spring, for calibration lower than -50 mbars
- Female connections by clamp or flange
- Gaskets adapted to operating conditions (FKM, silicone, nitrile)
- Other grades of material on demand

COMMISSIONING AND MAINTENANCE:

For all information concerning installation, commissioning, use and maintenance of this equipment, refer to technical notice XXX x F.

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