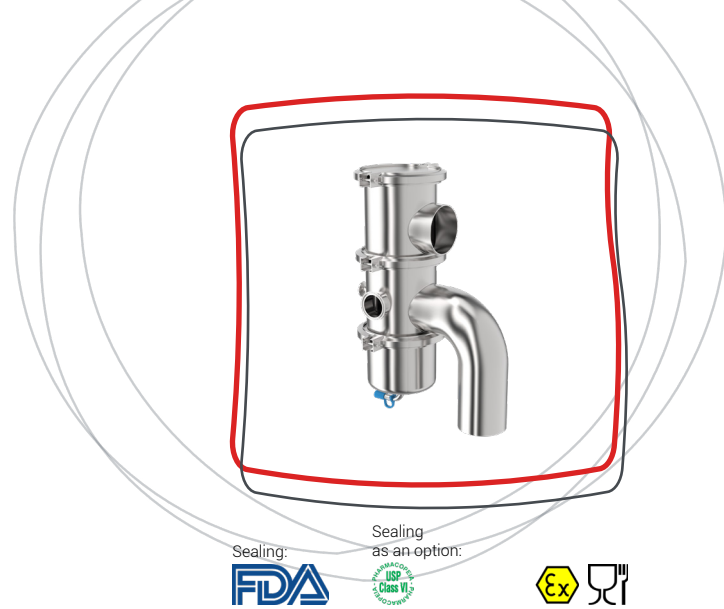


BOG[®]

Pressure and vacuum safety valve for storage tanks under protective atmosphere



Presentation

The valves in the BOG range are designed to protect low-pressure tanks not subject to the PED against negative pressure and/or overpressure. Depending on the version, the valve blow-off can be collected.

SERVINOX has the tools to size a valve according to the characteristics of the tank (diameter, height), its resistance (pressure, vacuum) and the washing conditions (temperatures, flowrates).

Key features

- Completely self-contained (no external controls required)
- Different models available to suit different needs: Pressure/vacuum with or without blow-off collection, Pressure only with or without blow-off collection, Vacuum only, etc.
- Valves compatible with hot/cold washing (after validation by sizing tool)
- Simplified, cost-effective maintenance
- Low-pressure sealing
- Hygienic design

Applications

- Manufacture and storage of food and non-food products in controlled atmospheres (dairy products, beverages, water, creams and other cosmetic products, fine chemicals, etc.)
- Tanks not subject to the PED whose operating pressure does not exceed 0.5 bar and whose operating temperature does not exceed 120°C
- Exclusively designed to convey gases

SERVINOX

Technical features

Sizes: DN 40, DN 65, DN 100, DN 150 in most connection standards (DIN, SMS, OD, ISO)

Connection to the tank: Plain welding nozzle

Connection to wash nozzle (optional): Mini-clamp

Pressure setting by weight: 2 to 50 mbar

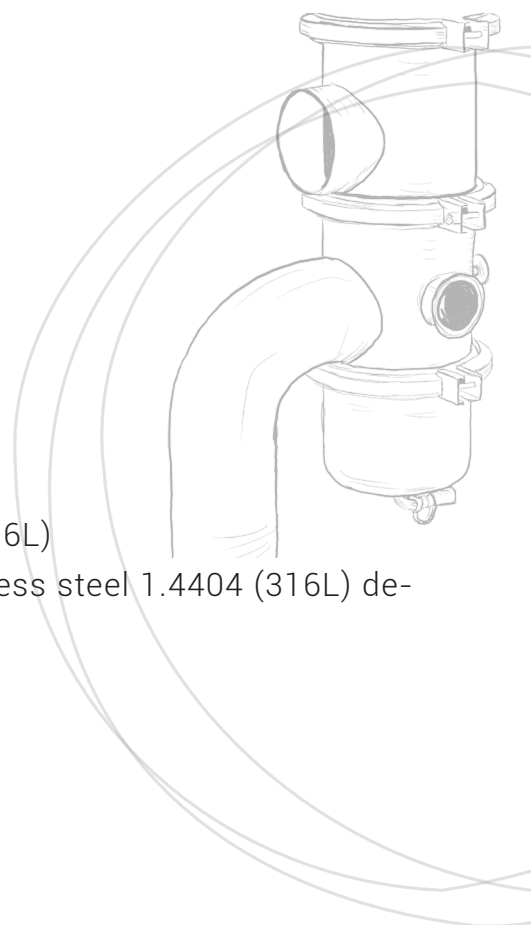
Spring-loaded pressure setting: 60 to 490 mbar

Negative pressure setting by weight: -2 to -50 mbar

Spring-loaded negative pressure setting: from -60 mbar

Temperature: +1°C to 120°C

Inner surface finish: Ra 0.8 µm



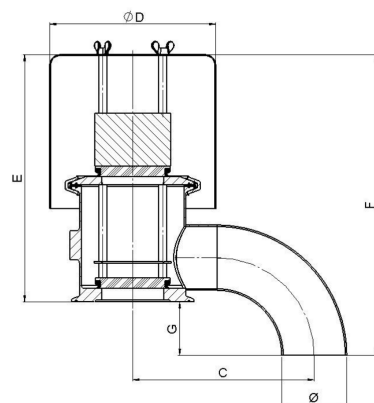
Materials

- Parts in contact with the product: Stainless steel 1.4404 (316L)
- Plugs: PTFE (Polytetrafluoroethylene, eq. Teflon®) or Stainless steel 1.4404 (316L) depending on pressure setting
- Other parts: Stainless steel 1.4307 (304L)
- Sealing: EPDM (Ethylene Propylene Diene Monomer) seals

Dimensions in mm

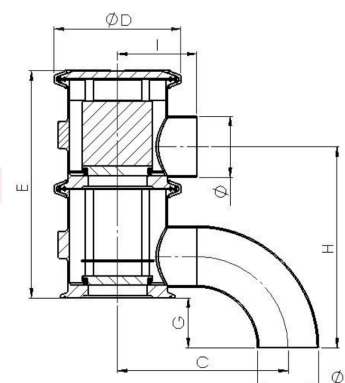
Pressure and vacuum valve - Blow-off not collected

BGA Size	DN 38	DN 40	DN 63,5	DN 65	DN 100	DN 150
C	115	115	177	177	212	392
D	162	162	162	162	325	325
E	204	204	240	240	311	374
F	203	215	292	312	385	510
G	26	38	52	72	74	136
Ø	38*1,25	41*1,5	63,5*1,6	70*2	104*2	154



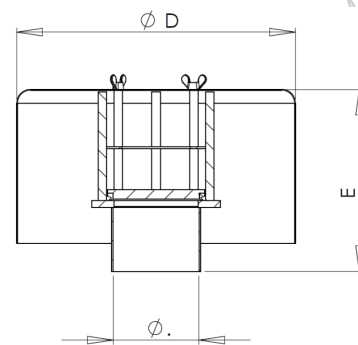
Pressure and vacuum valve - Blow-off collected:

BGB Size	DN 38	DN 40	DN 63,5	DN 65	DN 100	DN 150
C	115	115	177	177	212	392
D	103	103	132	132	195	284
E	204	204	240	240	311	476
G	26	38	52	72	74	136
H	156	167	207	227	313	453
I	58	69	82	102	112	167
Ø	38*1,25	41*1,5	63,5*1,6	70*2	104*2	154



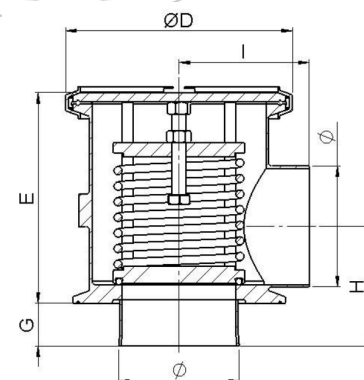
Pressure valve - Blow-off not collected:

BGC Size	DN 38	DN 40	DN 63,5	DN 65	DN 100	DN 150
D	162	162	162	162	325	325
E	125	125	180	180	213	256
Ø	38*1,25	41*1,5	63,5*1,6	70*2	104*2	154



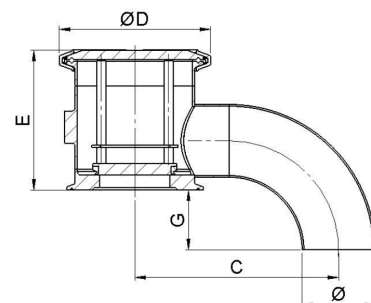
Pressure valve - Blow-off collected:

BGD Size	DN 38	DN 40	DN 63,5	DN 65	DN 100	DN 150
D	103	103	132	132	195	284
E	105	105	122	122	181	248
G	23	23	30	30	37	36
H	54	54	73	73	103	154
I	58	69	82	102	112	167
Ø	38*1,25	41*1,5	63,5*1,6	70*2	104*2	154

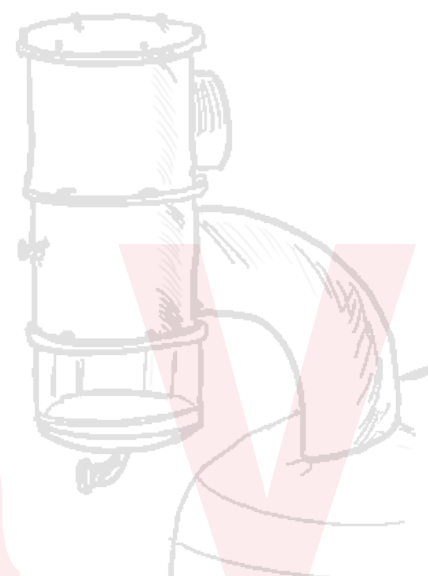


Vacuum valve:

BGE Size	DN 38	DN 40	DN 63,5	DN 65	DN 100	DN 150
C	115	115	177	177	212	392
D	103	103	132	132	195	284
E	105	105	122	122	181	248
G	26	38	52	72	74	136
Ø	38*1,25	41*1,5	63,5*1,6	70*2	104*2	154

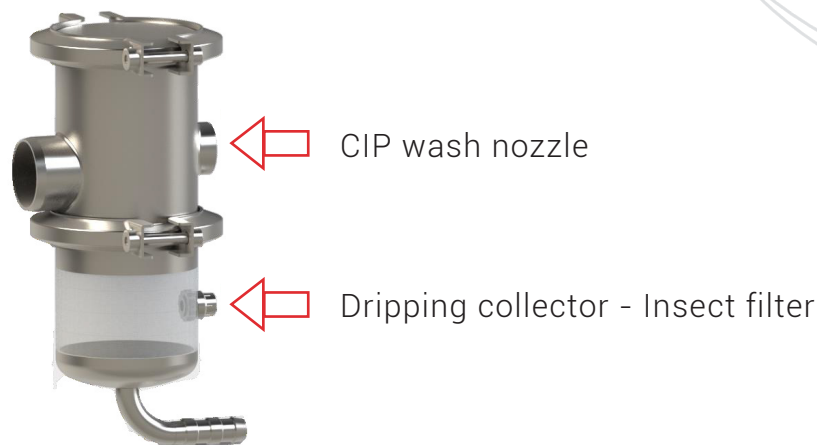


SEER



Options

- Wash nozzle (the drip collector and insect filter option is highly recommended)
- Drip collector and insect filter on vacuum section
- Other connections: female, male, clamp, flange
- Sterile air inlet on the valve, allowing protection and inerting functions to be concentrated in a single tapping to the tank
- Inductive vacuum opening detection
- Frost protection with temperature sensor, heating cable and thermostat, for operation at outdoor temperatures below 0°C
- Specific surface finish on request (interior and/or exterior)
- Other seals (specific operating conditions): FKM (Fluorocarbon rubber, eq. Viton®), VMQ (Silicone), NBR (Nitrile rubber), FFKM (Perfluoroelastomer, eq. Kalrez®)
- Forcing cylinder to open pressure and vacuum valves



Warranty

12 months as from the date of dispatch (except for special conditions).

Conformity

- Elastomer seals compliant with FDA CFR 21.177.2600 and Regulation (EC) 1935/2004
- Option: "ATEX 2014/34/EU, zones 1 & 2, gas and dust" version on models including blow-off collection (PTFE plugs + 15 % graphite)
- Option: PED 2014/68/EU version on the vacuum model
- Option: Elastomer seals compliant with USP Class VI

Non-contractual document and visuals, subject to change without notice.

Only the commercial offer and the technical manual supplied with the equipment may be used for technical and legal purposes.