

GENERAL INFORMATIONS

Safety equipment design to protect storage tanks under an inert atmosphere with a working pressure lower than 40 mbar (equipment excluded from the scope of the European Directive 2014/68/EU)

This low pressure safety valve is stamped with a « SERVINOX » sticker.

This manual corresponds to the using instructions for use of the safety valve. This safety valve is warranty 12 month before the delivery date.

OPERATION

This safety valve is used to protect against over-pressure and vacuum.

CAUTION OF USE

The valve must be used on equipment with maximum working pressure between 15 to 35 mbars.

In case of overflowing of the tank, it is essential to manually clean the valve and change the gaskets.

In normal operation, we recommend a cleaning every 6 month.

TECHNICAL DATA

Materials

Product wetted steel parts..... : Inox 316L (1.4404)

Other steel parts..... : Inox 304 (1.4301)

Seals : EPDM / SILICONE

Data

Calibration pressure weight..... : 40 mbar

Calibration vacuum membranes..... : -1 mbar

Process temperature : +5°C to +40°C

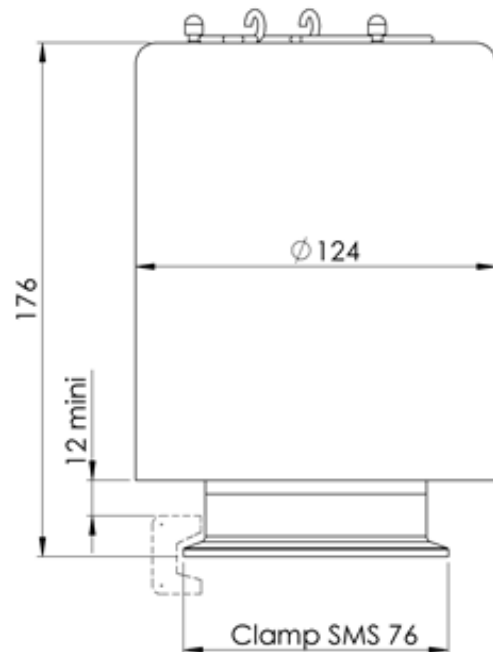
Cleaning temperature..... : +85°C max

Vacuum between 1 to 5 mbar at 100m3/h emptying flow rate

DIMENSIONS

Size

- The valve is available in:
ND50 equipped with an SMS 76 clamp



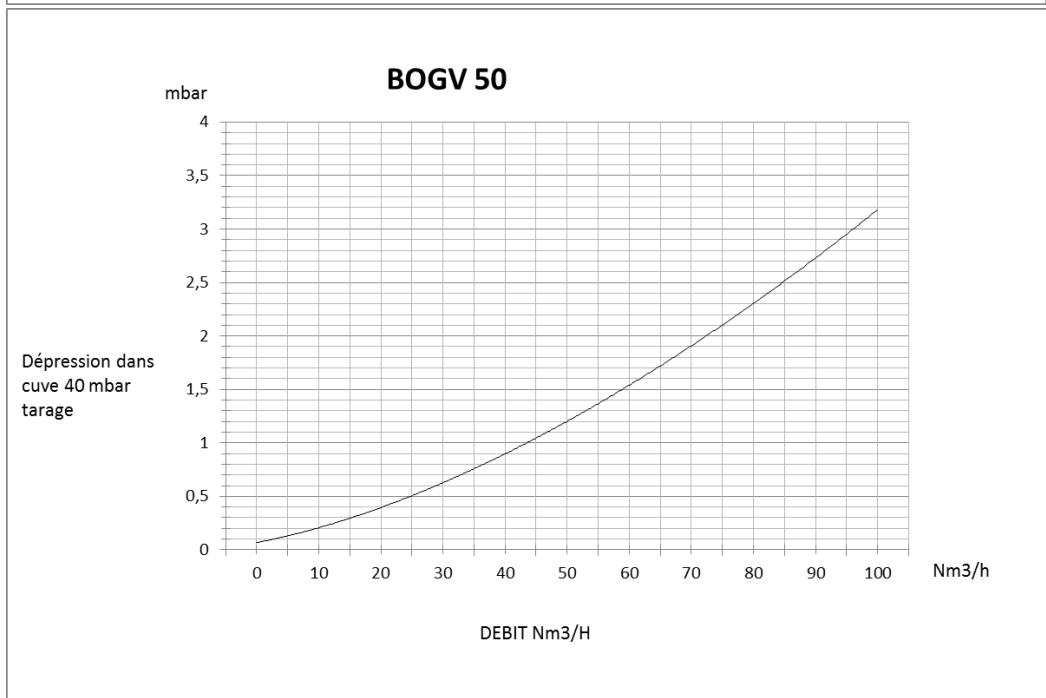
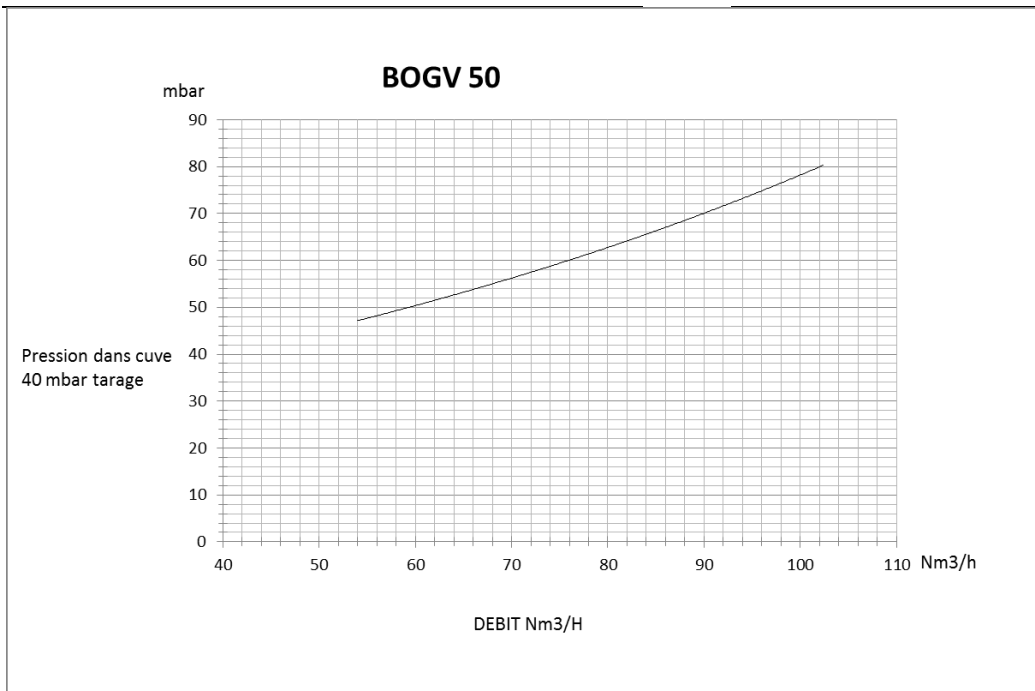
Our product can be modified, even if an order is in process

SERVINOX

34-36 , avenue Roger HENNEQUIN - 78190 Trappes cedex - France

Tél. : + 33 (0)1 30 16 15 00 - Fax : +33 (0)1 30 16 15 01

Email : mail@servinox.com - Homepage : <http://www.servinox.com>



INSTALLATION

It is essential to remove the packing piece under the cap as the pressure calibration is done by weight.

The valve has to be connected vertically onto the tank by Clamp SMS76.

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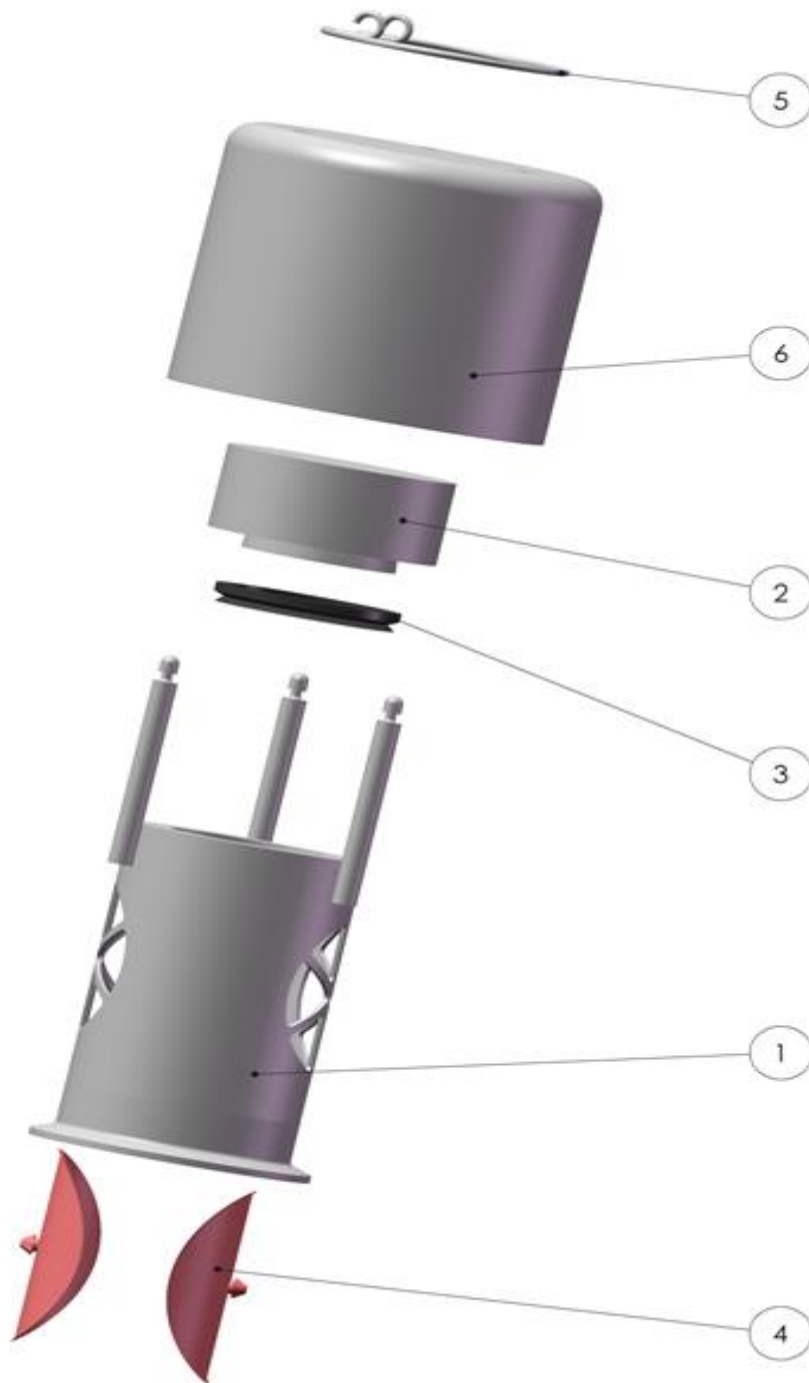
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MAINTENANCE

We recommend to change all the gaskets of the safety valve once a year.

Dismantling of the safety valve

These instructions should be follow to dismantle the valve:

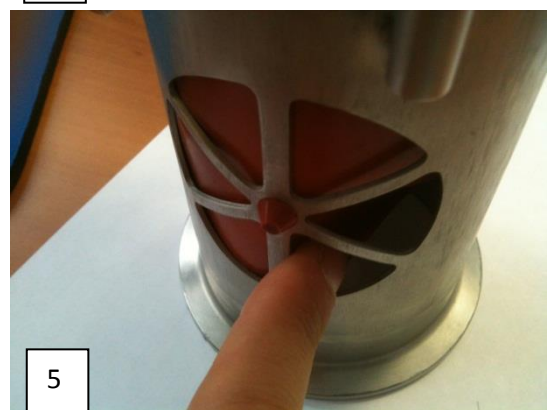
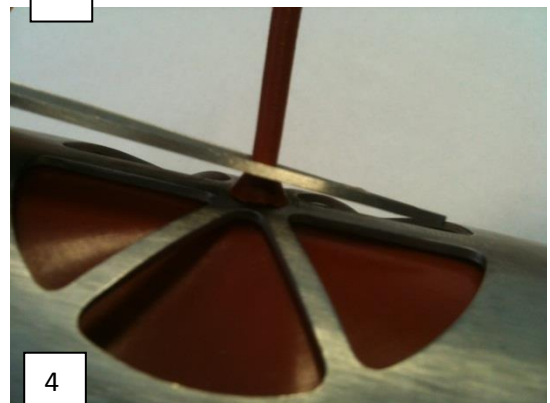
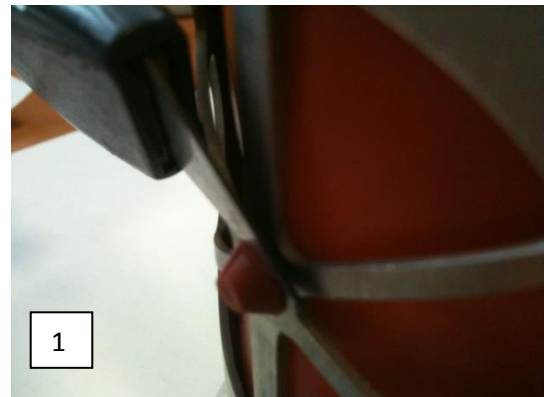
- Remove the circlip that maintain the cap (Ref 5)
- Remove the cap (Ref. 6).
- Remove the pressure calibration weight (Ref. 4).
- Check the gaskets (Ref. 3) and change it if necessary.
- Cut vacuum membranes dog points (ref. 4) (picture 1) and take membranes out

Assembling of the safety valve

These instructions should be follow to assemble the valve:

Ensure that internal surface of the valve (Ref.1) is completely clean without any particle or excess material at root of seam.

- Place the Vacuum membranes (Ref. 4) inserting the guide pins in the holes (Ref. 1) and cut them just above the dog points membranes (see pictures 3&4). **MAKE SURE TO CARRY OUT THIS OPERATION WITHOUT DAMMAGING VACUUM MEMBRANES. THOSE MEMBRANES MUST MOULD THE VALVE'S BODY AND BE SMOOTH.**
- Replace the pressure seal
- Place the stainless steel weight pressure calibration (Ref. 2) and the seal (ref 3)
- Place the blank cover (ref 6) making sure that the shell guide ties (Ref. 1) are in the cap's holes.
- Put on the cap fixing circlip (Ref. 5).
- Make sure that the vacuum membranes (Ref.4) are not stick to the internal surface of the valve (Ref. 1) (see picture 5).
- Warning: if you proceed to a soap bubble test, make sure that the soap did not stick vacuum membranes to the body's valve. Otherwise, the vacuum calibration will be distorted.



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