INSTRUCTIONS MANUAL

PRESSURE CONTROL VALVE
Type BOB

GENERAL INFORMATIONS

Process line accessory in accordance with European pressure equipment directive 97/23/CE paragraph 3.3.
The 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 valve.

OPERATION

The pressure control valve is connected to its lower part. The pressure control valve comprises a cylindrical body receiving a ball acted on by a set of lever-mounted weights. Sealing is ensured on the seat by an elastomer gasket. The pressure control valve should be adjustable from 0 through to operating pressure. The exhaust is collected to a secondary network. Adjustment is provided by a weight sliding on its lever. The valve is delivered with a 63 mm diameter stainless steel pressure gauge.

CAUTION FOR USE

The pressure control valve must be used for clear liquid products from group 2 (see article 9 of European directive no. 97/23/CE). The maximum working pressure is 6 bars. The maximum working temperature should be between 0°C & 80°C with the standard type (BOA___52). The stainless steel one (BOA___62) can be used with temperatures up to 120°C.
When use at high fluid temperature, high temperature can be reached on the surface of the body: risk of severe burning.

TECHNICAL DATA

Materials

Product wetted steel parts ..... : Inox 1.4404(316L)
Other steel parts ..... : Inox 1.4301(304)
Ball ..... : Arnite
Seals ..... : EPDM

Data

Maximum pressure calibration ..... : 6 bar
Temperature ..... : -10°C to 80°C

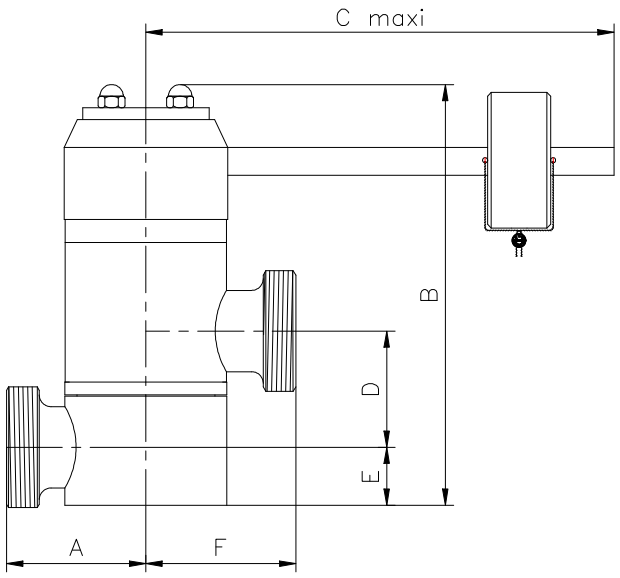
DIMENSIONS

Size

The pressure control valve is available in the following sizes:

- SMS : 25 mm (1"), 38 mm (1.1/2").
- DIN 11851 : DN25, DN40.

Dimensions



DIN valve

Size	ND25	ND40
A	60	99
B	175	202
C	453	465
D	48	59
E	21	25
F	60	99

SMS valve

Size	25mm	38mm
A	63	77
B	175	202
C	453	465
D	48	59
E	21	25
F	63	77

STORAGE CONDITIONS

The pressure control valve must be kept in a clean and dry storage under non-corrosive atmospheric conditions.

INSTALLATION

The pressure control valve must be set vertically.

After installation, it is recommended to verify that the balance weight can operate correctly

SERVINOX
200, Chaussée Jules César - BP24 - 95250 Beauchamp - France
Tél. : **+ 33 (0)1 39 32 77 00** - Fax : **+33 (0)1 39 95 12 21**
Email : mail@servinox.com - Homepage : http://www.servinox.com

MAINTENANCE

The maintenance of the valve needs to be done on a regular basis. The inspection frequencies shall depend on the conditions of use and shall be individually determined in each case.
We recommended periodically to supersede all the gaskets of the relief valve.

Dismantling of the pressure control valve

These instructions should be follow to dismantle the valve :

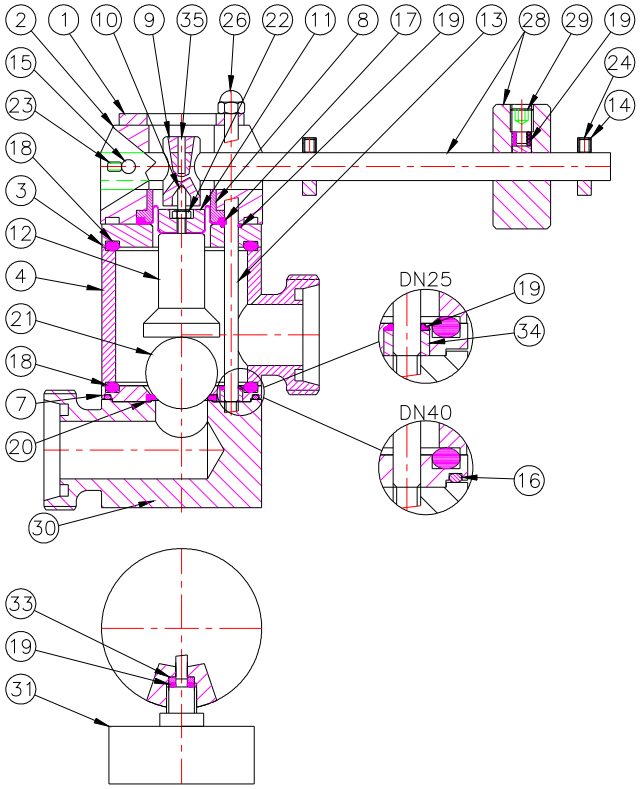
- Unscrew the 4 nuts (Ref. 26).
- Remove the upper plate (Ref. 1).
- Take out the part [head (Ref. 2) and balance weight (Ref. 28 & Ref. 8)].
- Remove the gaskets (Ref. 19).
- Remove Ref 3, 11, 12 et 17.
- Maintaining the tappet, unscrew the nut (Ref. 22) from the coupling rod (Ref. 10) to be able to remove the diaphragm (Ref. 17).(Do it carefully to maintain the position of the coupling rod in the tappet).
- Remove the superior gasket (Ref. 18).
- Remove the collecting chamber (Ref. 4).
- Remove the ball (Ref. 21).
- Remove the inferior gasket (Ref. 18).
- Remove the gasket (Ref. 7).
- Remove gaskets (Ref. 19) (& Ref 34 for ND 25 valve).
- Remove the gasket (Ref. 16) for ND 40 valve.
- Remove the gasket (Ref. 20).
- Remove the manometer (Ref. 31)
- Remove the gaskets (Ref. 19)
- Remove the gasket (Ref. 33)

Assembling of the pressure control valve

These instructions should be follow to assemble the valve :

- Supersede the gaskets (Ref. 19) and place the distance frames (Ref. 34) (only for a 25mm valve).
- Supersede the gasket (Ref. 16) (only for a 40mm valve).
- Supersede the gasket (Ref. 20).
- Place the splice plate (Ref. 7).
- Supersede the inferior gasket (Ref. 18) & the ball (Ref. 21).
- Supersede the collecting chamber (Ref. 4).
- Supersede the superior gasket (Ref. 18).
- Make a hole diameter 5 mm in the new diaphragm's centre (Ref. 17).
- Introduce the tappet (Ref. 12) in the plate (Ref. 3), set the diaphragm around the coupling rod (Ref. 10), set the piston (Ref. 11) & screw the nut (Ref. 22).
- Set this assemblage making it slide around the tie rod.
- Set the gaskets (Ref. 19).
- Supersede the diaphragm press (Ref. 8).
- Set the assemblage head / Calibration (Ref. 2 & 28) to centre the pivot in the coupling rod.
- Supersede the upper plate (Ref. 1).
- Compress this assemblage vertically.
- Screw the nuts (Ref. 26).
- Supersede the gasket (Ref. 33)
- Set the gaskets (Ref. 19)
- Supersede the manometer.

We recommend you to test the system manually to ensure that is correctly open.



200, Chaussée Jules César - BP24 - 95250 Beauchamp - France
Tél. : **+ 33 (0)1 39 32 77 00** - Fax : **+33 (0)1 39 95 12 21**
Email : mail@servinox.com - Homepage : http://www.servinox.com