

# For Pressure Regulation

## Alfa Laval SB Pressure Exhaust Valve

2.8

**Concept**

The Pressure Exhaust Valve is to be used in a system for remote control of the working pressure in tanks during a process creating increasing pressure.

The Pressure Exhaust Valve can be mounted directly on top of the tank, as part of a tank top system or located elsewhere in the pipework.

**Working Principle**

The Pressure Exhaust Valve is operated by means of the set point pressure being applied to the top of a membrane set. The pressure regulation will be identical to the set point pressure. The set point pressure is either reduced to the required pressure by means of a manual precision regulator or an IP converter controlled by a PLC.

When the tank pressure exceeds the set point pressure, the valve will open and release pressure through the valve side branch for atmospheric discharge or collection. To ensure correct working conditions, there should be no back-pressure after the vent port.

After force-opening of the Pressure Exhaust Valve by an air signal to the lower part of the membrane set, the valve is fully cleanable either by means of an optional CIP supply valve to the cleaning nozzle on the valve housing or simultaneously in line with cleaning of vent/recovery mains.

**Standard Design**

The valve is equipped with fittings for 4/6 mm nylon hoses for set point pressure and force opening. A CIP inlet is standard-closed with a closing plug. The plug can be changed to a cleaning nozzle designed to be supplied by a diameter of 8 x 1mm steel pipe.



**TECHNICAL DATA**

Size (diameter)	Working Pressure
38mm . . . . .	1-4 bar
51mm . . . . .	0,5-4 bar

**PHYSICAL DATA**

**Materials**

Product wetted steel parts: . . . EN 1.4404 (AISI 316L)  
 Product wetted seals: . . . . . EPDM  
 Product wetted polymers: . . . . Polypropelen

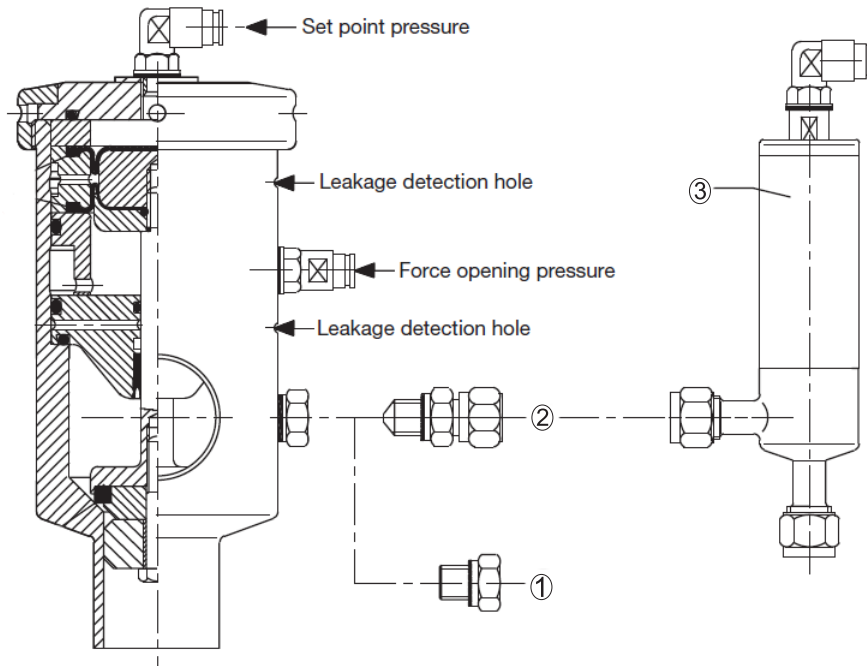
**Connection**

Weld End acc. ISO 2037  
 Unions DIN 11851

**Cleaning In Place (CIP)**

After force-opening of the Pressure Exhaust Valve by an air signal to the lower part of the membrane set, the valve is fully cleanable either by means of an optional CIP supply valve to the cleaning nozzle on the valve housing or simultaneously in line with cleaning of vent/recovery mains.

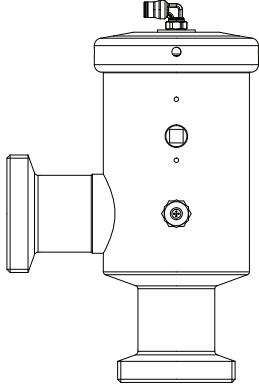
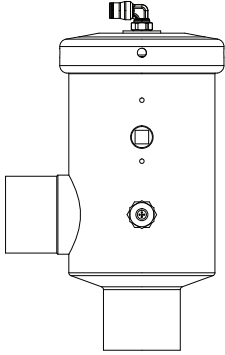
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- Pos. 1: Cleaning nozzle
- Pos. 2: Closing plug
- Pos. 3: Pneumatic CIP supply valve
- Pos. 1 and 2 included in valve**

Regulating Valve  
Product code: 5920

Material: 1.4404 (316L)  
Seals: EPDM  
Inside surface finish: Ra ≤ 0.8 µm  
Outside surface finish: Ra ≤ 1.6 µm

Item No.	PPL EUR	Size	Dimension (mm)		
			H	W	
<b>Connection: MALE PART ACC. DIN 11851</b>					
9615091301 9615088501	1752 2547	DN40 DN50	215 255	135 170	
<b>Connection: Welding Ends Acc. ISO 2037</b>					
9615091302 9615088502	1623 2359	38 51	195 235	115 145	

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