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For Pressure Regulation

Alfa Laval SB Pressure Exhaust Valve



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
76.1mm	0,5-4 bar

PHYSICAL DATA

Materials

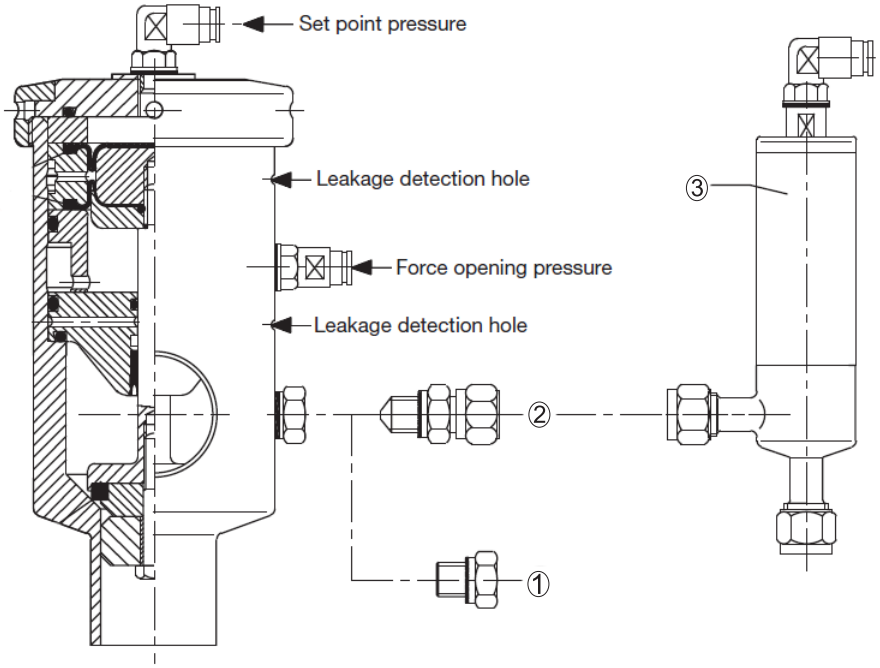
Product wetted steel parts: . . . EN 1.4404 (AISI 316L)
Product wetted seals: . . . . . EPDM
Product wetted polymers: . . . . Polypropelen

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.



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