

Breather Valve

BV/BS TYPE

Introduction

The model BV/BS pressure vacuum relief valves designed, manufactured and tested according to the API 2000 standard.

The model BV/BS pressure vacuum relief valves used to relieve excess pressure and vacuum that has generated in a tank.

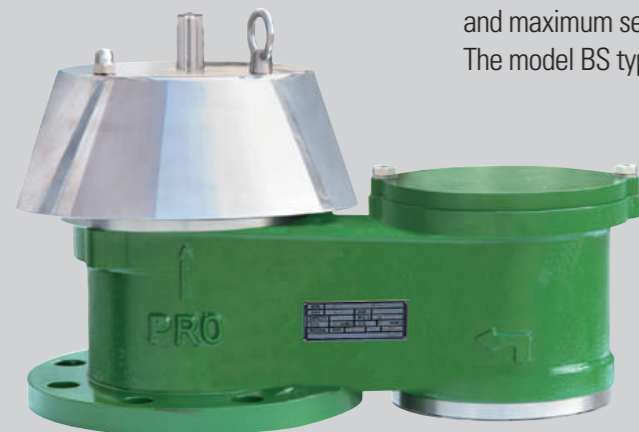
To avoid product loss, BV/BS pressure vacuum relief valves are recommended for using at atmospheric storage tank.

The set pressure and relieving pressure shall be consistent with the requirements of the standard according to which the tank was designed and fabricated. The model BV/BS can be manufactured the range of pressure and vacuum setting from ± 22 mm W.C to ± 8000 mm W.C.

The model BV type is weight-loaded type with minimum setting ± 22 mm W.C and maximum setting ± 700 mm W.C.

The model BS type is spring-loaded type over weight loaded type.

The materials for BV/BS shall be selected for the stored-product service temperatures and pressures. Also, the materials should be compatible with the product stored in the tank and with any products formed in the vicinity of the relief valve during filling and discharge. Usually the materials are available in Aluminum, Carbon Steel, Stainless Steel grade 304, 316 and 316L to suit individual requirements.



Benefits

- Designed according to the API 2000 standard.
- Less losses from reliable operation
- Suitable and compact design ensures long-term maintenance free life cycle
- Full lifting and high flow capacity
- Meet API leak test requirement
- No need inside maintenance
- Available outside inspection, cleaning and maintenance without disassembling

Pilot-operated Pressure/Vacuum Relief Valve

POV TYPE

General

Pressure and/or vacuum relief valves are used for dangerous oil, gas or petrochemical storage tanks and other process vessels or systems to prevent structural damage due to excess pressure or vacuum in.

Pilot-operated pressure/vacuum relief valves is performed best at applications, which it is required high amount of backpressure or fluctuating backpressure.

- Opting for modulating pilots allows the piston to lift only as high as is needed, venting off just enough pressure to prevent cycling (a common side effect of backpressure that can cause undue wear to valve parts).

Pilot operation is also recommended for equipments which low accumulation rates are required or when the set pressure level needs to be close to the operating pressure level.

- As pressure increases, the pilot maintains its seal tightly, allowing reliable operation closer to the set point for pack line, without product leakage.

- Pilot-operated pressure/vacuum relief valves can work at an operating pressure of up to 98% of set pressure.

Although their initial investment price tends to be higher, pilot-operated pressure/vacuum relief valves are much smaller than their spring-loaded counterparts, making them easier to install, maintain, and repair.



Benefits

- **PILOT OPERATED**
 - Easy settings
 - Only the pilot needs to be set
 - Lower profile and weight than spring operated types for high settings
 - Remote pilot sensing allows the pilot to sense the true system pressure (optional)
 - Remote or manual blowdown available
- **EXTRA TIGHT SEAL** - Main valve remains tight to set pressure
- **FULL FLOW** - Full open at 10% overpressure
- **SNAP-ACTION OR MODULATING ACTION**
 - Modulating action protect product since valve opening is proportional to overpressure.
 - Noise is reduced since the valve only opens fully when required.
- **SOFT SEATED** - Soft seats seal tight to protect product and minimize valve wear which improves reliability
- **TOP ENTRY** - Reduces maintenance costs since the valve can be completely serviced without removal from its mounting