94040 Spring Loaded Conservation Vent

The Shand & Jurs Model 94040 Spring Loaded Conservation Vent is designed utilizing over 80 years of experience in producing high quality and dependable conservation vents and safety fittings. This vent meets the need of higher pressure settings required on storage tanks (ideally suited when blanketed with nitrogen or other inert gas), process vessels and piping common to the petroleum, chemical and petro-chemical industries.

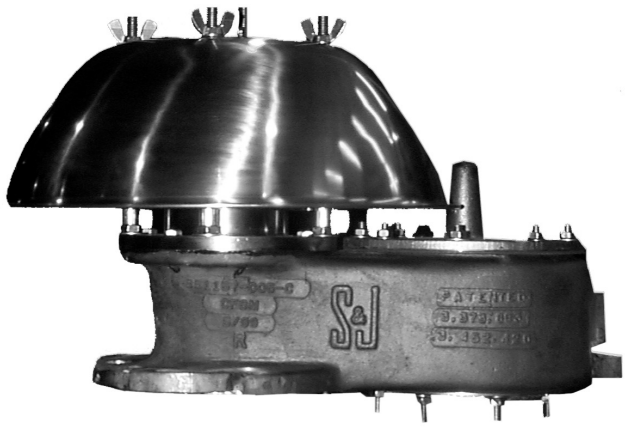
Higher pressure settings are accommodated using a unique method of spring loading which ensures highly reliable operation and reduces excessive venting of product at a relatively low cost. Pressure settings range from 1 psig through 15 psig for all sizes except 12" which has a maximum of 12 psig. Screw and flange type connections are offered for the 2" and 3" size and flange only for sizes 4" to 12". Vacuum protection is provided utilizing a weight loaded vertical lift pallet assembly that assures opitmum air flow into tank.

The pallet to seat diaphragm is cushion seated Teflon for long service life and optimum reliability. This diaphragm helps to ensure a high resistance to any ice and gum formations, prevents the pallet from sticking to the seat. The carefully engineered body, seat and pallet offers a superior combination of tight sealing and high capacity at lower over-pressure.

An Expanda-Seal is available on the pressure pallet to assure minimal leakage up to 95% of set pressure.

One of the most important features which should be noted in the Model 94040 design is the variety of construction materials available. A wide range of highly corrosive and toxic products common to the petroleum, petro-chemical and chemical industries, require that a conservation vent be able to withstand this environment and still function reliably. For few instances where our standard materials may not be suitable, optional materials are readily available.

Standard materials offered are aluminum, cast iron, cast steel and 316 stainless steel. Standard seats are aluminum and 316 stainless steel.



Features

- Low copper aluminum alloy minimizes special materials needs
- Guided pressure pallet assures smooth lift and closure
- Unique diaphragm construction assures positive seal and minimal blowdown
- Easy inspection of internal components
- Withstands variety of materials including highly corrosive and toxic products
- Pallet lip design contributes to high flow characteristics