

Pressure Relief Valve Manufacturers in India



Speciality valve is an esteemed [Pressure Relief Valve Manufacturers in India](#). We are a developed valves company that has quality valves and supply globally to Italy, USA and Mexico.

Pressure relief valves, including pilot-operated safety valves, are crucial components in industrial systems for safeguarding equipment and processes against overpressure conditions. While pilot-operated safety valves utilize a pilot valve and control system for precise pressure regulation, traditional pressure relief valves operate based on the force exerted by the system pressure to open and release excess pressure.

A pilot operated safety valve is a specialized type of safety valve commonly used in industrial applications to protect equipment and processes from overpressure situations. Unlike direct-acting safety valves, which rely solely on the force generated by the system pressure to lift the valve disc, pilot-operated safety valves incorporate a pilot valve and control system.

Relation between both valves

Both types of valves serve the common purpose of preventing catastrophic failures by relieving pressure buildup, but they differ in their mechanisms and applications. Pressure relief valves are typically used in situations where simpler, direct-acting mechanisms are sufficient, such as in low to moderate pressure systems or where precise pressure control is not critical. In contrast, pilot-operated safety valves are preferred for applications requiring precise pressure control, high-capacity flow rates, or where system pressure fluctuations are common. Together, these valves form a comprehensive safety strategy, ensuring the reliability and integrity of industrial processes across a wide range of applications.

Working:

The pilot valve controls the opening and closing of the main valve in response to pressure signals from the system. This design offers advantages such as precise pressure control, stable operation, and the ability to handle high-capacity flow rates. Pilot-operated safety valves are often used in applications where tight pressure control is critical, such as in steam boilers, pressure vessels, and petrochemical plants, to ensure the safety and integrity of the equipment and processes.

Industrial Application:

1. Oil and Gas Industry
2. Petrochemical Industry
3. Power Generation
4. Chemical Processing
5. Water and Wastewater Treatment
6. HVAC Systems
7. Pulp and Paper Industry
8. Mining and Minerals Processing

As [Pressure Relief Valve Manufacturers in India](#), our valves available in different materials and sizes:

Description:

1. Body: A216 WCB, A351 CF8, A351 CF8M
2. Nominal Size: DN25 to DN300
3. Nominal Pressure: Class 150 to Class 1500
4. Size – ½ - 24”
5. Ends- Butt welded, Socket welded, Flanged, Threaded
6. Operation: Pilot Operated

Visit us today: <https://www.specialityvalve.com/product-category/pilot-operated-safety-valve/>

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