

Purchase Specification

Model No. 50GE-01KCOS / NG1E50-01KCOS

PRESSURE RELIEF, PRESSURE SUSTAINING VALVE

Sizes

Screwed: 1 ¼", 1 ½", 2", 3" - Flanged: DN40 – DN1000

Function

The valve shall maintain a constant upstream pressure by bypassing or relieving excess pressure and shall maintain close pressure limits without causing surges. If upstream pressure decreases below the spring setting, the valve shall close. The valve must be WRAS Approved.

Main Valve

The valve shall be hydraulically operated, single diaphragm-actuated, globe or angle pattern. The valve shall consist of three major components: the body, cover and the diaphragm assembly. The diaphragm assembly shall be the only moving part and shall form a sealed chamber in the upper portion of the valve, separating operating pressure from line pressure.

Packing glands and/or stuffing boxes are not permitted and there shall be no pistons operating the main valve or pilot controls. No hourglass-shaped disc retainers shall be permitted and no V-type or slotted type disc guides shall be used. The valve shall contain a resilient, synthetic rubber disc, with a rectangular cross-section contained on three and one-half sides by a disc retainer and forming a tight seal against a single removable stainless steel seat insert.

The diaphragm assembly containing a non-magnetic 303 stainless steel stem shall be fully guided at both ends by a Stainless steel bearing in the valve cover and an integral bearing in the valve seat. No centre guides shall be permitted.