

Purchase Specification

Model No. 85GE-01KCOS / NG1E85-01KCOS

EXCESS FLOW SHUT-OFF (BURST CONTROL) VALVE

Sizes

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

Function

The excess flow shut-off (burst control) valve is a normally open valve which shall latch closed when flow reaches the preset maximum value .

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.

Pilot Control System

The pilot system shall be a direct acting diaphragm valve with snap action, two position control, designed to close when the controlling differential sensed across the orifice plate exceeds the adjustable spring setting. The control is locked mechanically in position when tripped and cannot open the main valve unless manually reset. An orifice plate flange assembly shall be included and mounted one to five pipe diameters upstream.

The contractor shall connect the sensing line between the pilot system and the orifice plate.