

PGV Series Gas Vent Valve

Slickline-retrievable, flapper-type valves for annular gas vent installations to 5,000 psi [34,475 kPa]

APPLICATIONS

- Electrical submersible pump installations
- Low-volume gas lift installations
- Medium setting depths
- Sweet to moderately corrosive environments

BENEFITS

- Offers a versatile solution.
- Provides an unobstructed flow path and reliable production.
- Design is cost effective and easy to run.
- Allows fewer potential leak paths.
- Reduces problems associated with solids and scale deposition.
- Applies to a wide range of subsurface environments.

FEATURES

- Camco* flapper-closure system
- Patented rod-piston actuation system

The Camco PGV gas vent valve isolates the annular flow from the tubing flow at the valve and is designed to control the flow of annular vent gas in electrical submersible pump installations. The PGV valve connects directly to a multibore packer, like the Schlumberger MultiPort* packer, with a vent path. The valve is normally installed with a separate hydraulic control line for positive control of annular flow, but it may also be installed using a control line that is common to the tubing safety valve. It can be rated to 5,000-psi [34,475-kPa] working pressure.

The PGV valve features the innovative and proven Camco flapper-closure system. The flapper mechanism is designed for strength and has a single, large hinge with a hinge pin made from a high-strength alloy. The patented rod-piston actuation system provides predictable operation, decreased friction, a reduced hydraulic chamber area, and deeper setting depths than valves with concentric pistons.

OPERATION

Open

When the valve is open, annular gas flows through the packer and valve. It exits into the annulus above the packer through the ports in the valve body.

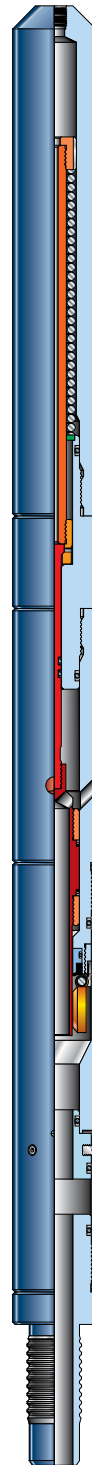
Close

If hydraulic control line pressure is released, a spring-loaded flow tube moves upward allowing the flapper to close and shut in the annulus.

Engineering Data for PGV Gas Vent Safety Valves[†]

Max. OD with Latch (in [mm])	Flow Area (in ² [mm ²])	Working Pressure (psi [kPa])
1.781 [45.2]	0.310 [199.8]	2,500 [17,238]

[†] Deepset designs are available on request.



PGV-L0 gas vent valve.