Pneumatic Safety Valves

Technically superior and affordably priced safety valves from the industry's leader in pneumatically controlled emergency shutdown (ESD) systems.

Our Axelson™ pneumatic actuator's modular design and few components improve field performance. Designed to close upon loss of control pressure (fail-safe), this actuator's nylon-reinforced diaphragm features a large piston area to allow for a low control pressure. The maximum control pressure is 150 psi.

When pneumatic control pressure enters the cylinder during operation, the extended stem travels downward, indicating the valve is open. The adjustable down-stop stops further downward movement, and the gate valve is now fully-open. The actuator is designed to maintain the valve (reverse-acting) in the open position with pneumatic pressure on top of the diaphragm.

Benefits

- A rolling nylon reinforced diaphragm design eliminates moving O-ring seals and leads to longer seal life.

- API 6A, PR2 Appendix F qualified packing

- Lightweight design that is easy to install and maintain and can be redressed without special tools or external pressure sources.

- Quick disconnect allows actuator removal from the valve without the use of special tools or an external pressure source.

- Large diaphragm area allows the use of low-pressure air or gas systems. A relief valve on the cylinder acts to protect against damage to the diaphragm in case of excessive pressure increases.

Features

- Available valve sizes: 2¹⁄₁₆ in. 5,000 psi, 2⁹⁄₁₆ in. 5,000 psi, 3⅛ in. 5,000 psi, 1¹³⁄₁₆ in. 10,000 psi, and 2¹⁄₁₆ in. 10,000 psi

- Available actuator sizes: 12-in. diaphragm actuator (70AUD12) and 18-in. diaphragm actuator (70AUD18)

- Visual open-close indication: Upper stem extension indicates gate position at a glance

- Can be offered with limit switches, fusible and standard lockout caps, stem protectors, and mechanical or hydraulic opening assemblies

Applications

- Surface wellheads

- Flowlines

- Headers

- Pipeline systems

- Casing-relief blowdown valve applications