



QV TECHNOLOGY®
FIRE AND EXPLOSION PROTECTION

VE

PINCH VALVE



Pinch Valve Features Faster Response Time and Seamless Integration with Proprietary Universal Controller

Safeguarding pneumatic conveying lines from explosion hazards is now easier and more economical with the next generation of the Interceptor®-VE® pinch valve.

Newly updated valve responds 20 percent faster than the previous model. The pinch valve protects equipment, plants, and people from flame and pressure propagation during a deflagration event by mechanically closing a food-grade, natural rubber

bladder within the valve to isolate deflagrations either bidirectionally or in a single direction, depending on your application requirements. The faster-closing valve can now be installed closer to the protected vessel for an easier, more economical installation than was previously possible.





CV Technology's Interceptor®-VE® pinch valve communicates with the Lumex® optical detector, the Detex® pressure detector, or the burst indicator on an explosion vent to activate.

The valve also offers a fail-safe design mechanism that activates from pressure or power loss to trigger automatic valve closure, ensuring continuous protection. The valve now offers full integration with CV Technology's proprietary CONEX® universal controller to reduce the number of controllers required in your plant, making communication between devices easier than ever before. The valve has been full-scale, third-party tested and is compliant with NFPA 69 and certified according to EN 15089.

New Generation Pinch Valve Features

- Faster closing during activation
- Integration with universal controller
- Reduced installation distance from protected vessel

Interceptor® VE®

FEATURE

The Interceptor®-VE® is an NFPA 69 compliant isolation pinch valve device that's installed in a duct or pipeline to prevent flame propagation of a deflagration.

The valve features a natural rubber bladder within its pipeline that inflates with the release of compressed-air from the attached high-speed solenoid valves. Inflation happens instantaneously to close the valve after the device receives a signal, which can come from either a pressure detector, a flame detector, or the burst indicator from an explosion vent. The pinch valve is actuated using plant compressed air stored in a tank on the valve, ensuring the fastest response under any conditions.

- Continuously protects equipment, property, and personnel at all times using mechanical isolation and fail-safe design
- Meets North American and European regulatory standards:
 - » NFPA 69 Standard on Explosion Prevention Systems compliant
 - » FM Global 7-76 Prevention and Mitigation of Combustible Dust Explosion and Fire compliant
 - » EN 15089 certified
- Protects pneumatic conveying systems either bidirectionally or in a single direction
- Dual high-speed solenoid valves improve pinch valve closure speed by up to 20 percent versus previous-generation valve
- Activates by signal from pressure detector, flame detector, or a burst indicator on an explosion vent
- Suitable for horizontal, vertical, or inverted installations and includes a versatile, relocatable drain valve port for trouble-free operation without condensation issues from temperature fluctuations
- Uses a single controller, which can monitor multiple valves
- Includes CAN-BUS controller capability for sophisticated and expandable communication options
- Resettable on field for easy rearming without outside support
- Suits sanitary applications by using a food-grade natural rubber bladder on the valve's interior, allowing for product recovery and regulatory compliance
- Field replacement of valve's rubber bladder with easy-access clamshell valve design
- Fits line size diameters from 3 to 12 inches

Selecting a Pinch Valve with Confidence

Pinch valve selection to meet regulations and protect equipment, property, and personnel can require expertise and a deep knowledge of safety.

Not only does CV Technology have the dependable and reliable engineering solutions you need, but we can advise you on a safety plan that works for your process and your specific regulatory requirements, saving time and money while keeping your people safe. Call CV Technology today and find out how we can help you with selecting the best safety solutions for your plant!

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