

Valve Automation

StoneL

The Prism



The Prism Series, designed for corrosive process environments, attaches directly to Sanitary Diaphragm and Angle Valves. This rugged, feature-rich platform, offers a full array of communication and switching options as well as discrete integral pneumatic control for single-acting valve actuator operation.

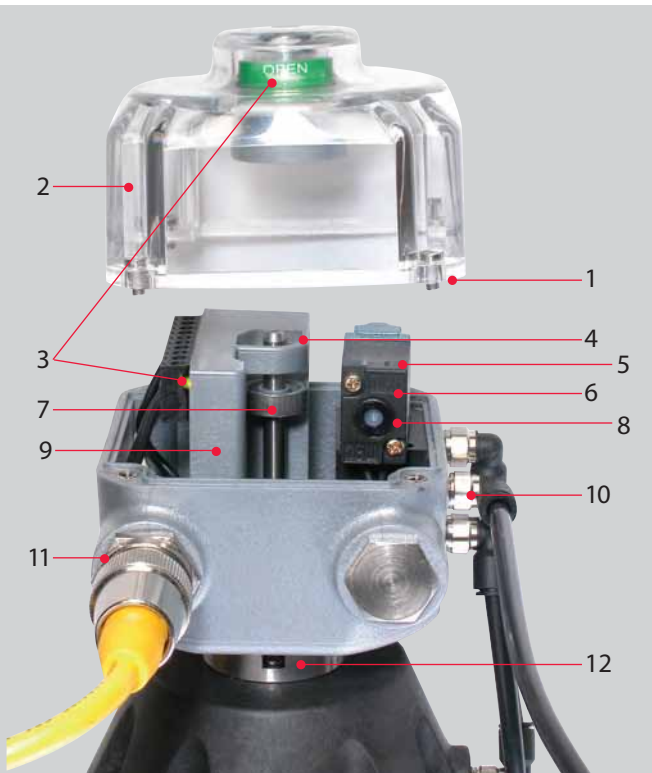


MODBUS

DeviceNet



HART
COMMUNICATION PROTOCOL



- 4 Solid state proximity sensors monitor Open/Closed discrete valve position with precision and reliability.
- 5 Integral pneumatic valve is isolated from environmental contamination, offers high tolerance to dirty air and enables rapid valve operation.
- 6 Solenoid options available for 120VAC and 24VDC. Select Piezo option for bus powered FOUNDATION Fieldbus Applications.
- 7 Self Adjusting triggering system provides consistent Open and Closed indication even with diaphragm compression. No resetting is required.
- 8 Manual override enables valve operation without electrically energizing.
- 9 Dual module system seals all position sensing, communication and control electronics in a compact vibration proof package.
- 10 NPT port connections are stainless steel reinforced for long life sealing under high torque stress conditions.
- 11 Water proof quick connectors, compression fittings or conduit connections are available for convenient, reliable attachment to plant electrical systems.
- 12 Stainless steel adaptor system locks Prism securely to valve actuator and provides stability for shaft interface.

- 1 The Prism may be washed down and temporarily submersed with no adverse affects. It is rated NEMA 4, 4x, and 6. It may be used in Div. 2/Zone 2 areas (Nonincendive) or Div.1/Zones 0 & 1 (Intrinsically Safe) hazardous applications.
- 2 Enclosure features high strength polycarbonate with excellent corrosion resistance and exceptional temperature stability.
- 3 Visual electronic and mechanical position indication confirm valve and switch status for added safety.

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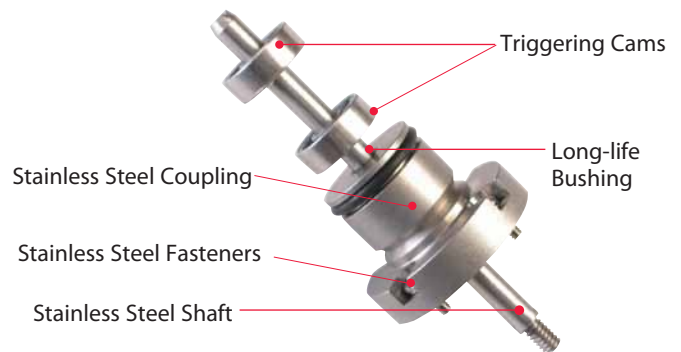
Valve Diagnostics Cut Maintenance Costs

STONEL's dual modules with FOUNDATION Fieldbus feature valve stroke timing, cycle count and maintenance dating. This information is stored in the dual module and may be retrieved by the control system to determine valve system repair or replacement scheduling. Other protocols feature different forms of diagnostics depending on the protocol functionality.



PRISM Mounting System

PRISM adapting systems are designed specifically for each actuator manufacturer and model. The adaptor coupling, made of stainless steel, also integrates a corrosion proof, ultra long-life bushing. This system stabilizes the shaft from lateral motion and assures reliable, low friction movement over the actuator's life.



Other Specifications and Ratings

Materials of Construction

Housing & Cover	Polycarbonate
Fasteners	Stainless Steel
Triggering Cams	Stainless Steel Banded Polycarbonate
Shaft	Stainless Steel
Valve Manifold	Polysulfone with Stainless Steel Reinforced NPT
Temperature Range with solenoid	-40°C to 80°C (-40°F to 176°F) Max. Ambient 50°C (120°F)
Operating Life	1 Million Cycles

Warranty

Dual Module	5 Years
Other Mechanicals	2 Years

Nonincendive Ratings

NEC/CEC	Classes I and II, All Groups, Div. 2
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Intrinsically Safe Ratings

NEC/CEC	Classes I and II, All Groups, Div. 1 & 2
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Enclosure Protection

NEMA	4, 4X and 6; IP67
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Dimensions

Inches [mm]

