



Intrinsically Safe Latching Solenoid

The intrinsically safe latching solenoid was designed for safe use in flammable environments and featured a high-speed plunger that would extend to prevent a fluid pump from entering an overspeed condition. Energy-limiting circuitry kept the solenoid's electrical output below the ignition threshold for atomized flammable substances. The solenoid used only a short pulse of current to extend the plunger and drew no current to maintain position.

Features & Benefits

- + High-speed plunger extension
- + Electronic ignition prevention
- + Encapsulated construction
- + Customizable to application's electronic drivers

Applications

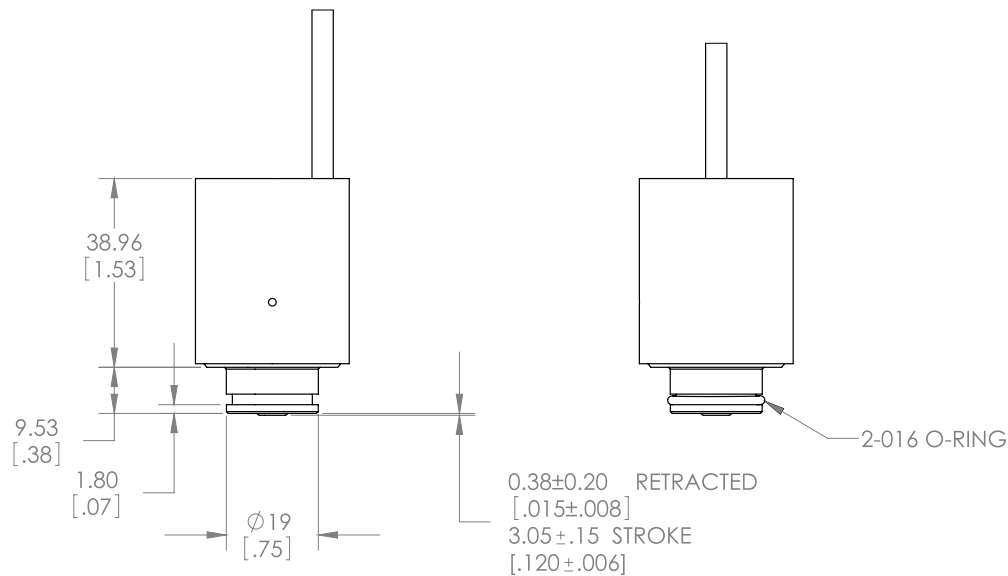
- + Atomized liquid environments
- + Chemical processing
- + Combustible dust environments
- + Hazardous environments

Technical Data (custom configurations available)

- + Stroke: 3.05 mm
- + Supply voltage: 6, 12, or 24 Vdc
- + Response time: 17-26 ms
- + Operating temperature range: -40°C to 60°C (-40°F to 140°F)
- + Operating voltage: 6.8 to 7.8 Vdc
- + Coil resistance at 20°C: 13.0 $\pm$.5 Ω
- + Inductance at 1 kHz: 26 mH max.
- + Net spring preload: 2.9 N (.65 lb) min.

All TLX components are customized to fit system requirements, meaning technical specifications are unique to each customer and design. Examples given are for illustration purposes only.

Dimensional Drawings (dimensions in millimeters [inches])



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