

## Digital High-Speed Control Valve



The digital high-speed control valve was designed for high-pressure gas vessels and worked independently of pressures or flow forces. The valve used residual magnetism and a proprietary control circuit to latch the spool without the application of constant current. Control circuitry was available to verify the speed and consistency of spool shift. A fail-safe sequence or position was pre-programmable in the event that control power was lost, and a minimum flow threshold was preset through parallel flow passages within the valve structure.

### Features & Benefits

- + Fast response time
- + Control flexibility
- + Matched electronics
- + Low power consumption
- + Fail-safe control

### Applications

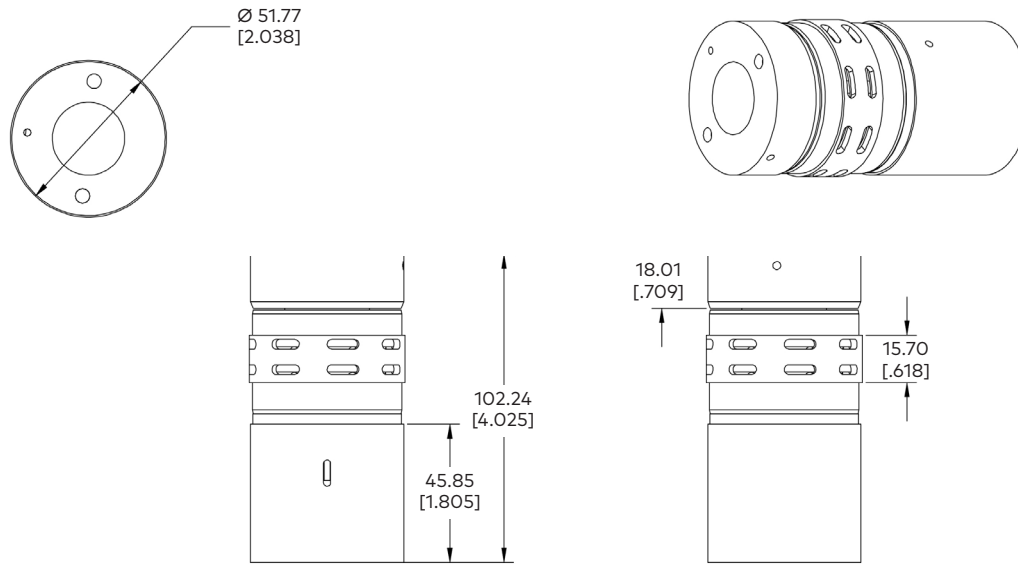
- + High-speed pressure control
- + Vehicle airbags

### Technical Data (custom configurations available)

- + Supply voltage: 8 to 16 Vdc
- + Stroke: Up to .762 mm (.03 in.)
- + Open flow area: Up to 484 mm<sup>2</sup> (.75 in.<sup>2</sup>)
- + Response time: 1.5 to 3.0 ms
- + Current: 7.5 A
- + Solenoid force generated: Up to 450 N (101 lb)

*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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