



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 could be added to verify the speed and consistency of spool shift, and a fail-safe sequence or position could be preprogrammed in the event that control power was lost. A minimum flow threshold could be 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

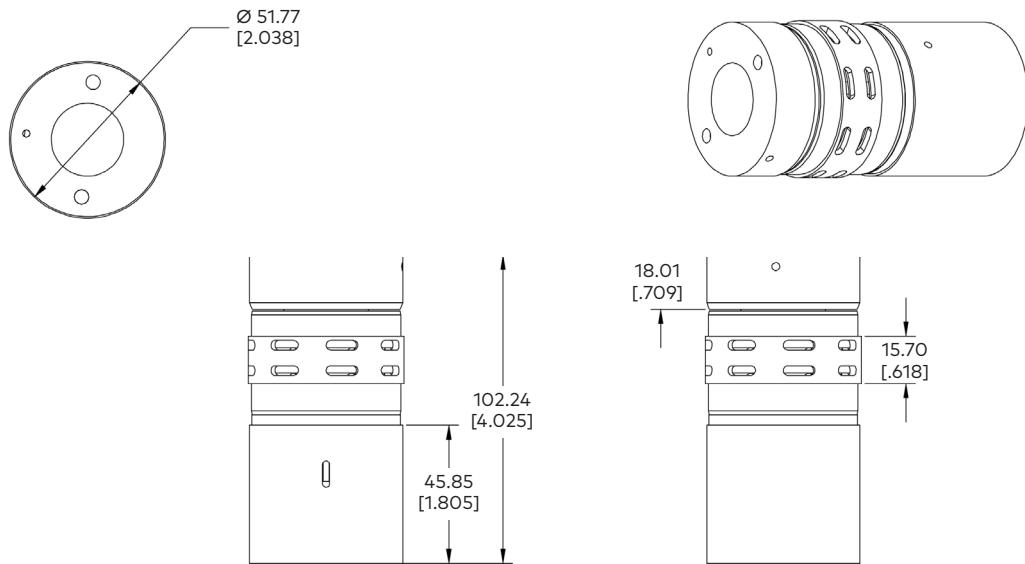
- + High-speed
- + Vehicle airbags

Technical Data (custom configurations available)

- + Supply voltage: 8 to 16 Vdc
- + Stroke: Up to .762 mm (.03 in.)
- + Open flow area: Up to 484 mm² (.75 in.²)
- + 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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