



1/4" LOW PRESSURE MINIATURE LATCH VALVE **V1E10728-01**

DESCRIPTION

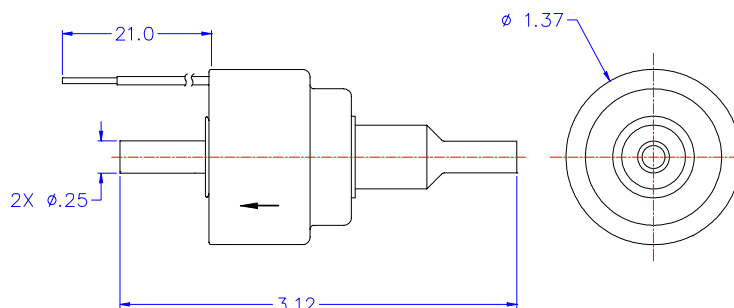
VACCO Aerospace Products produces a product line of latching valves designed to meet industry's demand for high reliability, tight leakage, and quick response capabilities.

The 1/4" Low Pressure Miniature Latch Valve is designed as a light weight and low cost alternative propulsion system that requires small flow capacity. This valve was qualified for a Hydrazine propellant system. A derivative has been developed with modifications to the orifice and poppet which is capable of 3,000 psi MEOP.



FEATURES

- ⊕ 400 psig Operating Pressure
- ⊕ CRES Interface
- ⊕ Low Weight – 0.37 lbm (168 grams)
- ⊕ Integral Position Indicator
- ⊕ 40 μ Absolute Etched Disc Inlet Filter
- ⊕ 1,000 Open/Closing Operating Cycles
- ⊕ Teflon Poppet
- ⊕ Fully Qualified



OPERATING PARAMETERS

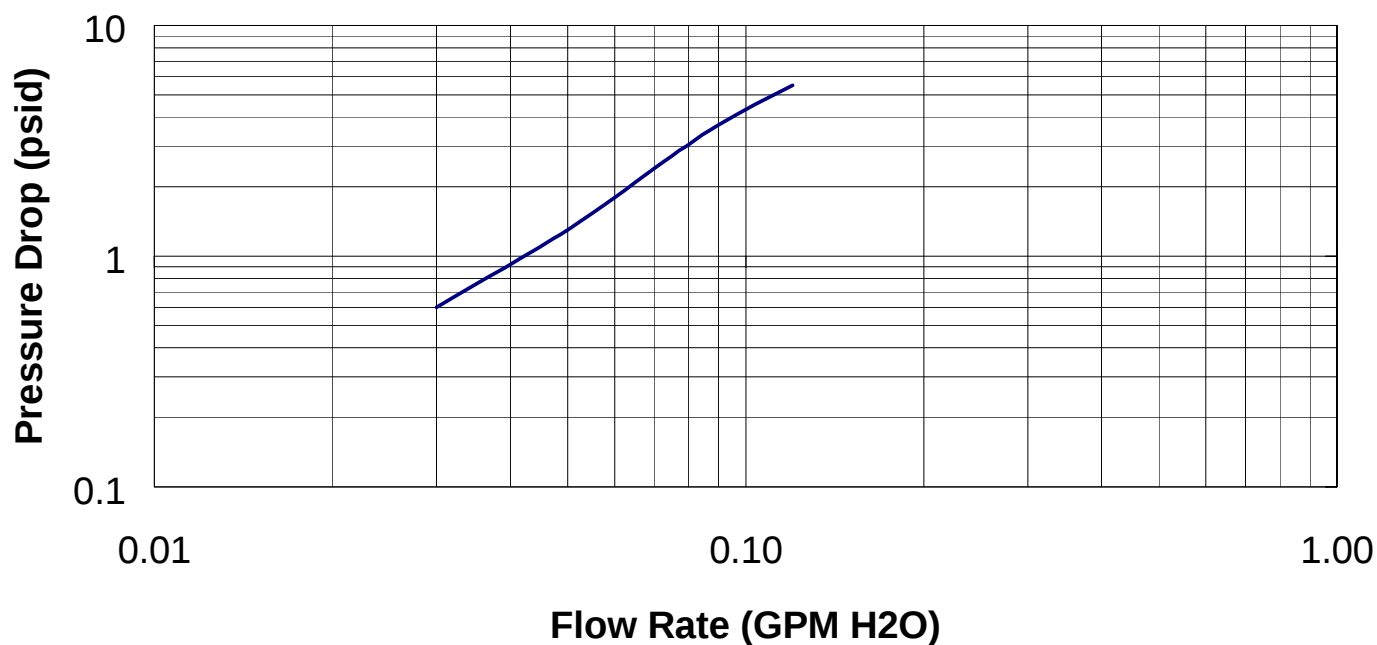
Operating Pressure Range0-400 psig
 Proof Pressure..... 600 psig
 Burst Pressure 1,000 psig
 Flow 0.01 lbm/sec (0.08 gpm)H₂O
 Pressure Drop..... 3 psid max.
 Internal Leakage 1.0 scc/hr GHe @ MEOP
 External Leakage <1 X 10⁻⁶ sccs GHe @ MEOP
 Weight..... 0.37 lbm (168 grams)

Operating Temperature +10° to +50° C
 Non-operating Temperature..... -30° to +60° C
 Response Time:
 Opening15 msec @ 20 VDC
 Closing15 msec @ 20 VDC
 Back Pressure Relief..... 325 $\pm$ 200 psid
 Inlet Filter Rating 40 microns absolute
 Operating Voltage 11-17 VDC
 Dielectric Strength 500 VAC RMS @ 60 Hz – 1 min

Performance characteristics are based upon customer requirements, as such, are not representative of component capabilities or limitations

PERFORMANCE CHARACTERISTICS

Pressure Drop @ 400 psig



ELECTRIC SCHEMATIC

