

LATCHING HIGH DENSITY INTERFACE (HDI) 3-WAY SOLENOID VALVE

The Lee Company's miniature magnetic latching solenoid valve is designed on the 3-way HDI (High Density Interface) platform and optimized for applications that demand ultra-low power, low heat, and small size. This valve is ideal for compact, battery powered pneumatic instruments such as portable oxygen delivery systems, environmental gas samplers, and other OEM flow switching devices. The valve requires only momentary (10 msec maximum) pulses of current to switch its state resulting in a 5.5 milliwatt-sec per switch. The polarity of voltage on the terminal pins controls the switched position.

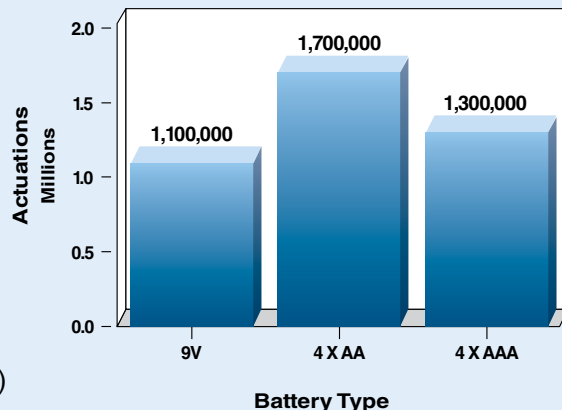
The Lee Company offers an array of standard manifolds for testing as well as customer-designed manifold configurations for production. Performance parameters can be optimized for a specific application.

Contact your Lee Sales Engineer for additional technical assistance and application information.

- Magnetically Latched
- Ultra Low Power Consumption and Heat Dissipation (5.5 mW-sec/Switch)
- Reliable Bi-Stable Switching
- Compact Size
- Operating Pressure Range: Vac – 45 psig (0-15 psid)
- Flow Capacity (air): 3-Way; 1100 Lohms (6 SLPM @ 10 psig; Cv = .018)
- Available in 5, 12 and 24 vdc Models*
- Light Weight: Less Than 4.5 grams
- Leakage: Less Than 50 μ L/min @ 5 psig (air)
- Electrical Connection: 0.025" Sq. Pin



Projected Battery Life

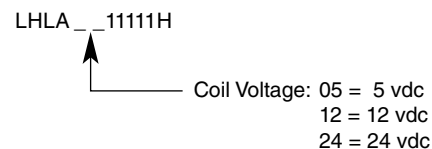


STYLE	PART NUMBER	WETTED MATERIALS
Plug-in	LHLA__11111H	PPS, PBT, 316SS, 430F SS, SI, FCR, & Epoxy
	LHLA__11211H	PPA, PBT, 316SS, 430F SS, FCR, & Epoxy
	LHLA__11311H	PPS, PBT, 316SS, FeCr Alloy*, SI, FCR, & Epoxy
	LHLA__11411H	PPA, PBT, 316SS, FeCr Alloy*, FCR, & Epoxy
Face Mount	LHLA__21111H	PPS, PBT, 316SS, 430F SS, SI & Epoxy
	LHLA__21211H	PPA, PBT, 316SS, 430F SS, FCR, & Epoxy
	LHLA__21311H	PPS, PBT, 316SS, FeCr Alloy*, SI & Epoxy
	LHLA__21411H	PPA, PBT, 316SS, FeCr Alloy*, FCR, & Epoxy
Ported	LHLA__31111H	PPS, PBT, 316SS, 430F SS, SI & Epoxy
	LHLA__31211H	PPA, PBT, 316SS, 430F SS, FCR, & Epoxy
	LHLA__31311H	PPS, PBT, 316SS, FeCr Alloy*, SI & Epoxy
	LHLA__31411H	PPA, PBT, 316SS, FeCr Alloy*, FCR, & Epoxy

* Material optimized for saline compatibility.

See dimensional drawings on reverse.

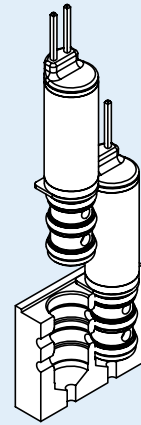
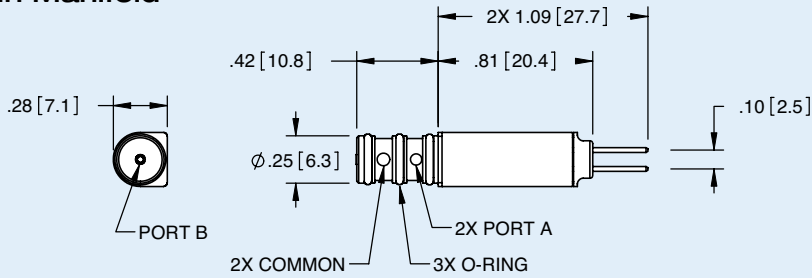
* Latching Valves are available in 5, 12 and 24 vdc models. Other voltages available upon request.



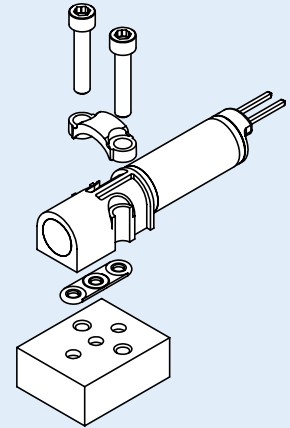
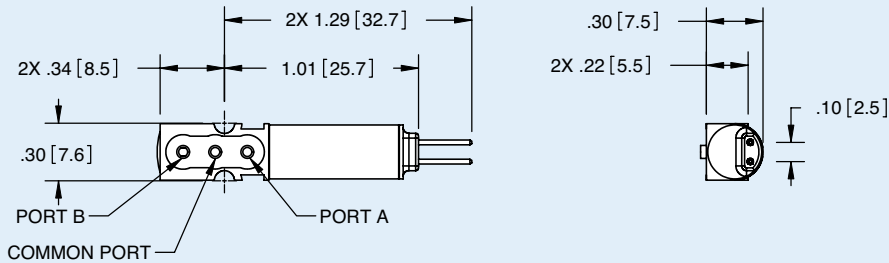
VOLTAGE ON TERMINAL	FLOW DIRECTION
A (+), B (-)	Common to Port -A
A (-), B (+)	Common to Port -B

LATCHING SOLENOID VALVE

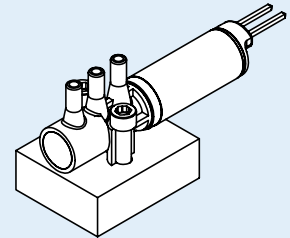
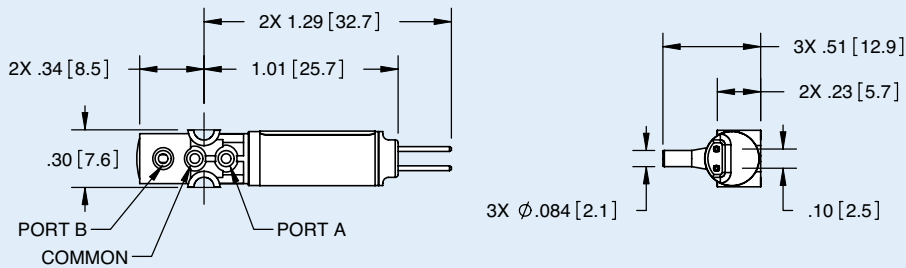
Plug-In Manifold



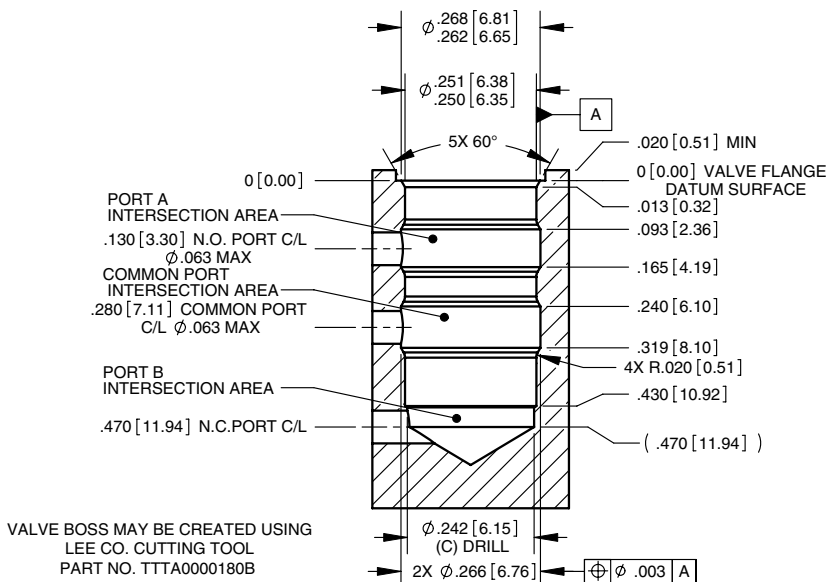
Face Mount Manifold



Soft Tube Ported



Plug-In Boss Detail



Face Mount Boss Detail

