


DWG NO. LHDB1252115H REV. D1



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TRANSITIONED TO SW PDM, UPDATED SHEET FORMAT, WAS PART OF OMNIBUS DRAWING LHDB0052015B, ADDED PORTING SCHEMATIC TABLE, UPDATED NOTES.

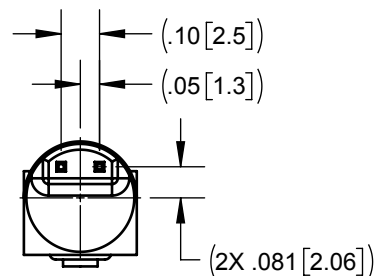
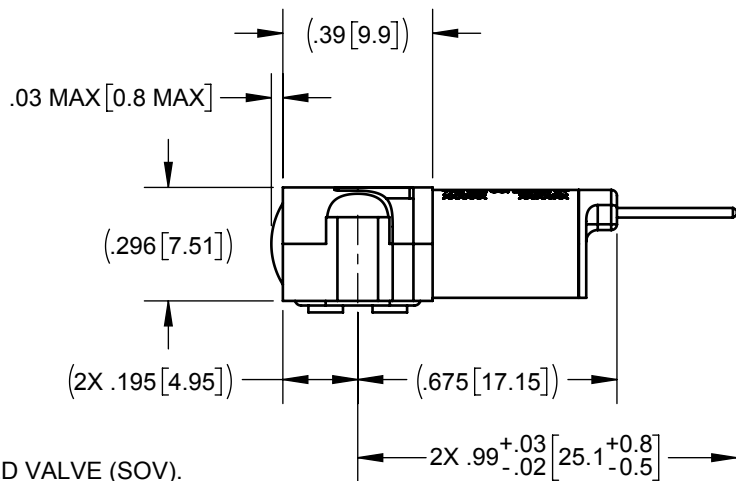
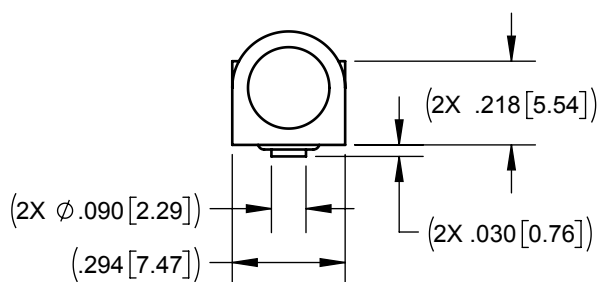
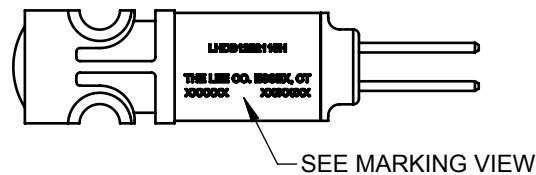
Diagram illustrating the marking view of a component. The marking is displayed within a rectangular frame. The text is organized as follows:

- Top line: L H D B 1 2 5 2 1 1 5 H
- Second line: THE LEE CO. ESSEX, CT
- Third line: XXXXXX XX/XX/XX

Labels with arrows indicate the following fields:

- PART NUMBER points to the top line of text.
- LOT NUMBER points to the XXXXXX field.
- DATE OF MANUFACTURE points to the XX/XX/XX field.

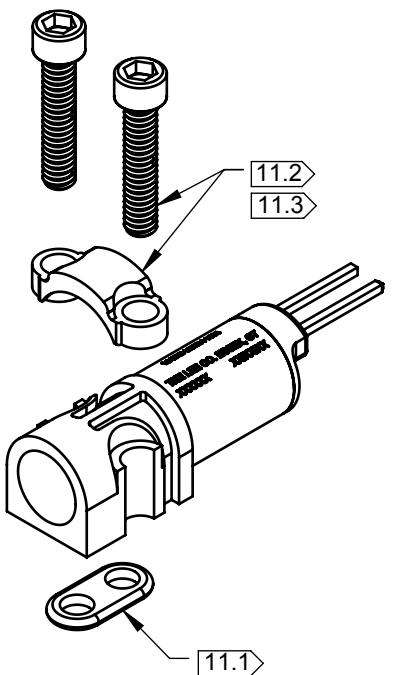
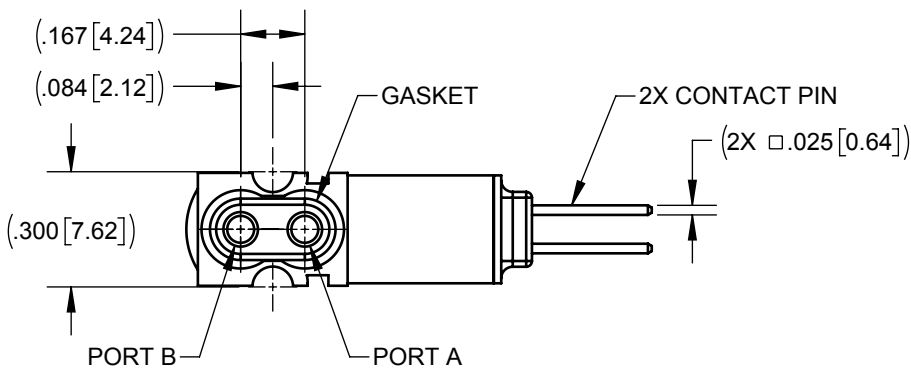
MARKING VIEW  
SCALE: 8:1



PORTING FLOW SCHEMATIC
DE-ENERGIZED
ENERGIZED
ISO 1219 SYMBOL

1. VALVE FUNCTION: 2 PORT, 2 WAY, 2 POSITION, NORMALLY CLOSED, SOLENOID OPERATED VALVE (SOV).
2. WETTED MATERIALS: PBT, PPS, 316 SS, FeCr ALLOY, VMQ (SILICONE RUBBER), EPOXY.
3. ELECTRICAL SPECIFICATIONS:

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  - 3.1 SPIKE AND HOLD DRIVER REQUIRED FOR CONTINUOUS DUTY.
    - 3.1.1 SPIKE VOLTAGE: 12  $\pm$ 5% VDC FOR 10 TO 30 ms.
    - 3.1.2 HOLD VOLTAGE: 7.2  $\pm$ 5% VDC.
    - 3.1.3 POWER CONSUMPTION AT HOLD VOLTAGE: 310 mW NOMINAL AT 70°F [21°C].
    - 3.1.4 AVERAGE POWER NOT TO EXCEED 400 mW AT 70°F [21°C] OVER ANY DISCRETE ENERGIZED/DE-ENERGIZED CYCLE.
  - 3.2 CONTACT THE LEE COMPANY FOR LIMITED DUTY DRIVE PARAMETERS AT 12 VDC.
  - 3.3 COIL RESISTANCE: 169 OHMS NOMINAL AT 70°F [21°C].
4. OPERATING PRESSURE:
  - 4.1 SYSTEM: VAC TO 45 PSIG [VAC TO 310 kPaG].
  - 4.2 PRESSURE DIFFERENTIAL: 10 PSID [69 kPaD] MAXIMUM.
  - 4.3 PROOF PRESSURE: 90 PSIG [620 kPaG] MAXIMUM.
5. RESPONSE:
  - 5.1 PULL-IN: 10 ms MAXIMUM AT 10 PSID [69 kPaD] AIR AT 70°F [21°C], PORT A INLET.
  - 5.2 LATCH OUT: 10 ms MAXIMUM AT 10 PSID [69 kPaD] AIR AT 70°F [21°C], PORT A INLET.
6. FLOW CAPACITY: 4.4 SLPM MINIMUM AT 10 PSID [69 kPaD] AIR AT 70°F [21°C] (1500 LOHMS MAXIMUM).
7. LEAKAGE:
  - 7.1 CASE: 50 S<sub>u</sub>LPM MAXIMUM AT 10 PSID [69 kPaD] AIR AT 70°F [21°C].
  - 7.2 SEAT: 50 S<sub>u</sub>LPM MAXIMUM AT 10 PSID [69 kPaD] AIR AT 70°F [21°C].
8. ENVIRONMENTAL REQUIREMENTS:
  - 8.1 OPERATING TEMPERATURE: 40°F TO 120°F [4°C TO 49°C].
  - 8.2 STORAGE TEMPERATURE: -40°F TO 175°F [-40°C TO 79°C].
  - 8.3 AMBIENT HUMIDITY: 85% MAXIMUM, NON-CONDENSING.
9. OPERATING FLUID: AIR AND COMPATIBLE GASES.
10. REQUIRED FILTRATION: 35 MICRONS OR FINER.
11. INSTALLATION INFORMATION: SEE THE LEE COMPANY DRAWING LFIX1002050A.



<div>-FMF-</div> <div>The Lee Company</div> <div>Essex, CT</div>	<div>DO NOT SCALE DRAWING.</div> <div>UNLESS OTHERWISE SPECIFIED (UOS):</div> <div>DIMENSIONS ARE IN INCHES.</div> <div>[mm] ARE FOR REFERENCE ONLY.</div>	<div>DRAWN BY</div>	<div>AKD</div>	<div>12/12/2019</div>	<div>TITLE</div> <div>LEE HDI SOV, FMT-2P-12V-VMQ</div>			
		<div>CHECKED BY</div>	<div>PS</div>	<div>01/06/2020</div>	<div><div>LEE</div><div></div><div><div>The Lee Company</div><div>55 Bokum Rd., Essex, CT 06426</div><div>www.theleeco.com</div></div></div>			
		<div>APPROVED BY</div>	<div>MTS</div>	<div>01/06/2020</div>				
		<div>MATERIAL:</div> <div>SEE NOTE 2</div>						
<div><div>WARNING</div><div>EXPORT CONTROLLED BY</div><div>EAR [50 USC 2401] ECCN=EAR99</div></div> <div>NOTES AND DIMENSIONS SHOWN HEREIN ARE FOR</div> <div>INSPECTION IDENTIFICATION ONLY ALL</div> <div>MANUFACTURING RIGHTS ARE RESERVED</div>	<div><div>TOLERANCES:</div><div>.XX ± .015</div><div>.XXX ± .005</div><div>.XXXX ± .001</div><div>ANGLES ± 5°</div><div>EXTERNAL CORNER: .01 MAX BREAK</div><div>INTERNAL CORNER: .01 MAX BREAK</div><div>63</div><div>SURFACE FINISH </div></div>	<div>THIRD ANGLE PROJECTION</div>			<div>SIZE</div> <div>B</div>			
		<div></div>			<div>DWG NO.</div> <div>LHDB1252115H</div>		<div>REV.</div> <div>D1</div>	
					<div>SCALE: 2:1</div>		<div>CODE IDENT NO. ONZR4</div>	<div>SHEET 1 OF 1</div>