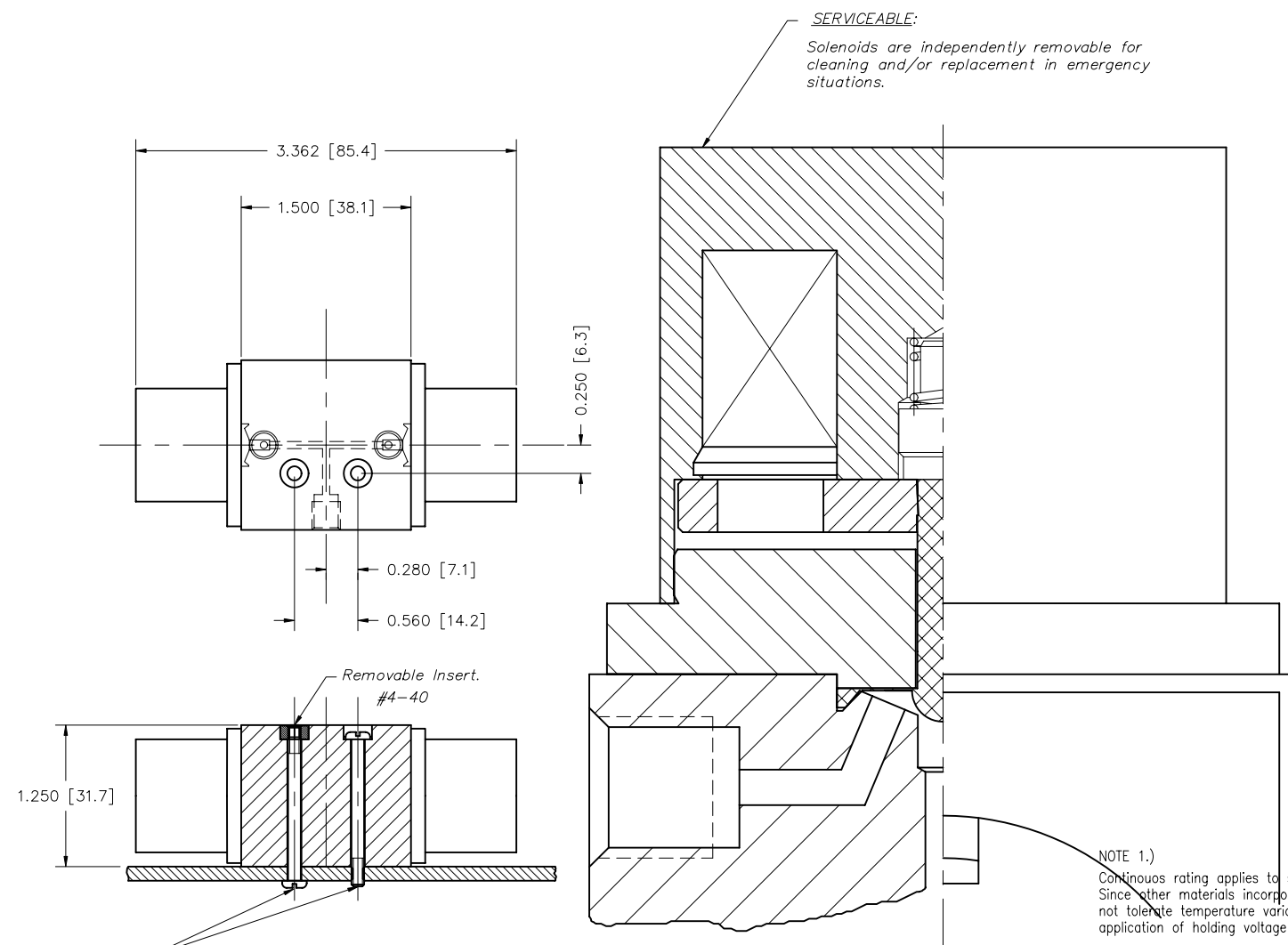


This drawing is NOT to be used for making reproductions thereof, or for making or using any apparatus, equipment, subject matter, or technical information without written authorization of Neptune Research and Development, Inc. All prints are to be returned to Neptune immediately upon completion of work.



**SPECIFICATIONS:**

- Mechanical:** (Each Port)
- TYPE: 2w Normally Closed
  - PORT CONNECTION: 1/4-28 Flat Bottom
  - NOMINAL ORIFICE: 0.062 In. (1.5 mm)
  - OPERATING PRESSURE: Vacuum to 30 PSI (2 Bars)
  - TEST PRESSURE: 30 PSI N<sub>2</sub> (No leakage)
  - INTERNAL VOLUME: 41 microliters from valve seat to mixing intersection.
  - WETTED MATERIALS: TEFLON®
  - MOUNTING ORIENTATION: Any Position

- Electrical:** (At 70° C No Pressure)
- OPERATING VOLTAGE: 12 VDC (Continuous)  
12 to 48 VDC subject to duty cycle and/or holding voltage applied.
  - POWER CONSUMPTION: 1.6 Watts/12VDC (Approx.)
  - LEAD WIRES: #26 AWG, TFE Insulated Yellow 12 In. (305 mm) Long.
  - TEST VOLTAGE (ON): < 9 VDC.
  - TEST VOLTAGE (OFF): 0.5 to 4 VDC.
  - RESPONSE TIME (ON): 20 ms Max. (12 VDC)  
5 to 20 ms subject to applied voltage and driving circuits.
  - RESPONSE TIME (OFF): 30 ms Max. (From 12 VDC)  
30 to 5 ms adjustable by driving circuits.

**NOTICE:**  
This product is protected by one or more of the following United States Patents: 4,496,133; 4,993,456; 5,143,118; Re. 34,261 5,433,244. Other Patents Pending.

UNLESS OTHERWISE SPECIFIED		Scale	1 : 1 (B)	Material
Fractions	± 1/64	Dr. By	A. Sule	Date 03-18-2004
2 Pl. Dec.	± 0.005	Rev. By	F. Tarnok	Date 12-12-2008
3 Pl. Dec.	± 0.002	Part Name	Model# 225T051	
Angular	± 0.06°	Drawing Number		225V312
All Fin. Surf.		NR RESEARCH INCORPORATED		
Break Sharp Edges	0.003-0.008			
All Small Fin. Radii	0.003-0.008			
All surfaces shall be Concentric, Parallel, Flat, Square and True to Each Other within 0.001 T.I.R.				