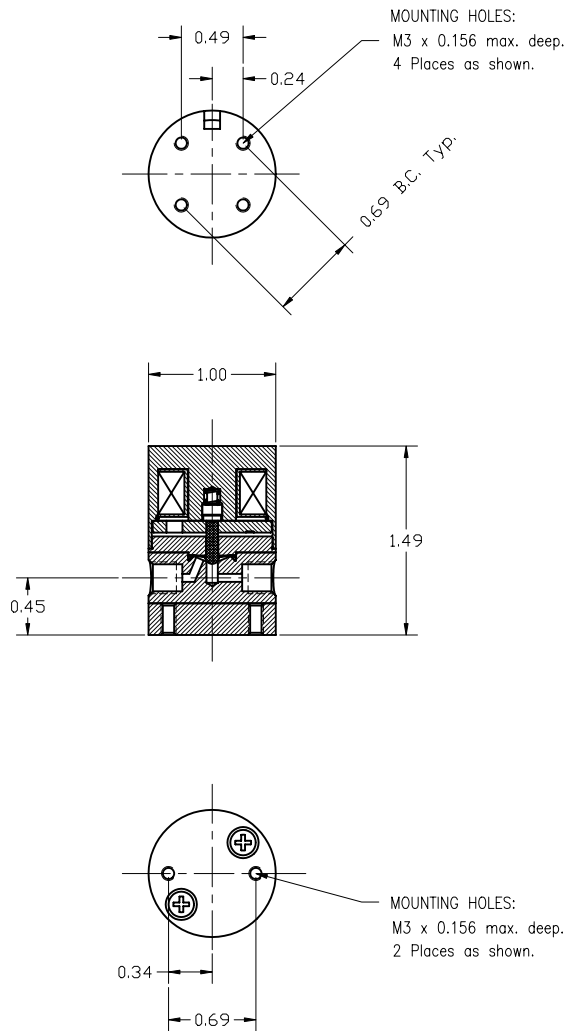


This drawing is NOT to be used for making reproductions thereof, or for making or using any apparatus, equipment, subject matter, or technical information without written authorization of Neptune Research and Development, Inc. All prints are to be returned to Neptune immediately upon completion of work.



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 100 PSI (6.89 Bars)
TEST PRESSURE: 100 PSI N₂ (Less than 3μl/min. Leakage.)
INTERNAL VOLUME: 57 microliters from bottom of ports.
WETTED MATERIALS: TEFLON®
MOUNTING ORIENTATION: Any Position

Electrical: At 70° F (No Pressure Applied)
OPERATING VOLTAGE: 24 VDC 0.1sec & Hold at 8VDC
24 to 48 volts subject to duty cycle and/or holding voltage applied.
POWER CONSUMPTION: 6.4 Watts at 24VDC (Approximately)
LEAD WIRES: #26 AWG, TFE Insulated
Yellow 18 inches (457 mm) long.
TEST VOLTAGE (ON): < 18 VDC
TEST VOLTAGE (OFF): 1 to 8 VDC
RESPONSE TIME (ON): 20ms Max. (24 VDC)
5 to 20 ms subject to applied voltage and driving circuits.
RESPONSE TIME (OFF): 30ms Max. (from 24 VDC)
30 to 5 ms adjustable by driving circuits.

NOTE 1.)
Continuous rating applies to solenoid construction only.
Since other materials incorporated in the product may not tolerate temperature variations as well as the solenoid application of holding voltage is strongly recommended.

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 | As Noted |
|----------------------------|---------|-----------------------------------|-------------|-----------------------------------|-----------|----------------------------|
| Fractions | ± 1/64 | Break Sharp Edges | 0.003-0.008 | Dr. By | A. Sule | Date 06-15-1997 |
| 2 Pl. Dec. | ± 0.005 | All Small Fin. Radii | 0.003-0.008 | Rev. By | F. Tarnok | Date 09-28-2009 |
| 3 Pl. Dec. | ± 0.002 | All surfaces shall be Concentric, | | Part Name HPMBT012 2w NC 24VDC | | Drawing Number .VALM187 |
| Angular | ± 0.06° | Parallel, Flat, Square and True | | | | |
| All Fin. Surf. | | to Each Other within 0.001 T.I.R. | | | | |

