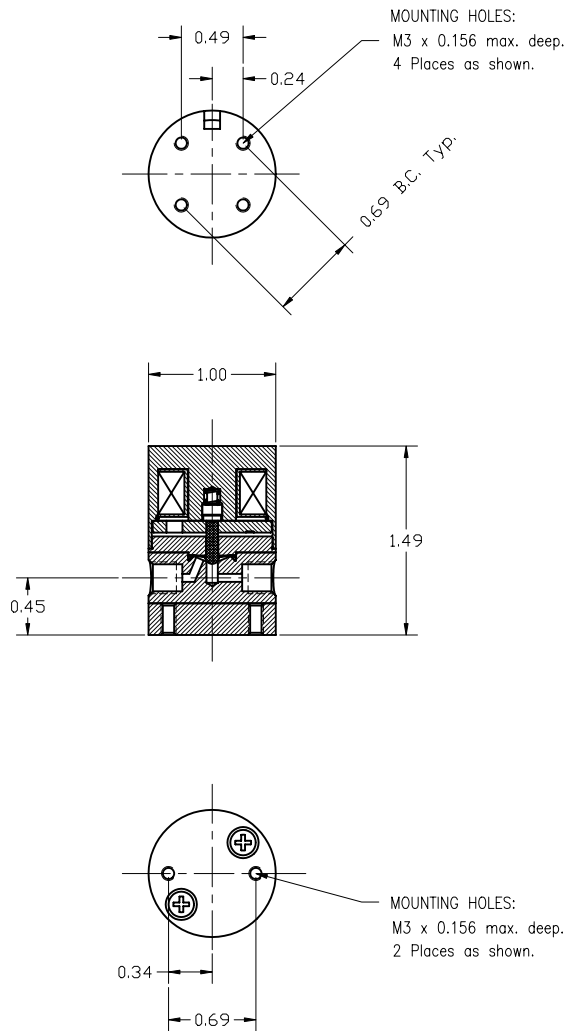


This drawing is NOT to be used for making reproductions thereof, or for making or using any apparatus, equipment, subject matter, or technical information without written authorization of Neptune Research and Development, Inc. All prints are to be returned to Neptune immediately upon completion of work.



**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> (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: 12 VDC (continuous)  
12 to 24 Volts subject to duty cycle and/or holding voltage applied.  
POWER CONSUMPTION: 1.6 Watts at 12VDC (Approximately)  
LEAD WIRES: #26 AWG, TFE Insulated  
Yellow 18 inches (457 mm) long.  
TEST VOLTAGE (ON): < 9 VDC  
TEST VOLTAGE (OFF): 0.5 to 4 VDC  
RESPONSE TIME (ON): 20ms Max. (12 VDC)  
*5 to 20 ms subject to applied voltage and driving circuits.*  
RESPONSE TIME (OFF): 30ms Max. (from 12 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		Drawing Number
Angular	± 0.06°	Parallel, Flat, Square and True		MBT011 2w NC 12VDC		VALM696
All Fin. Surf.		to Each Other within 0.001 T.I.R.				

