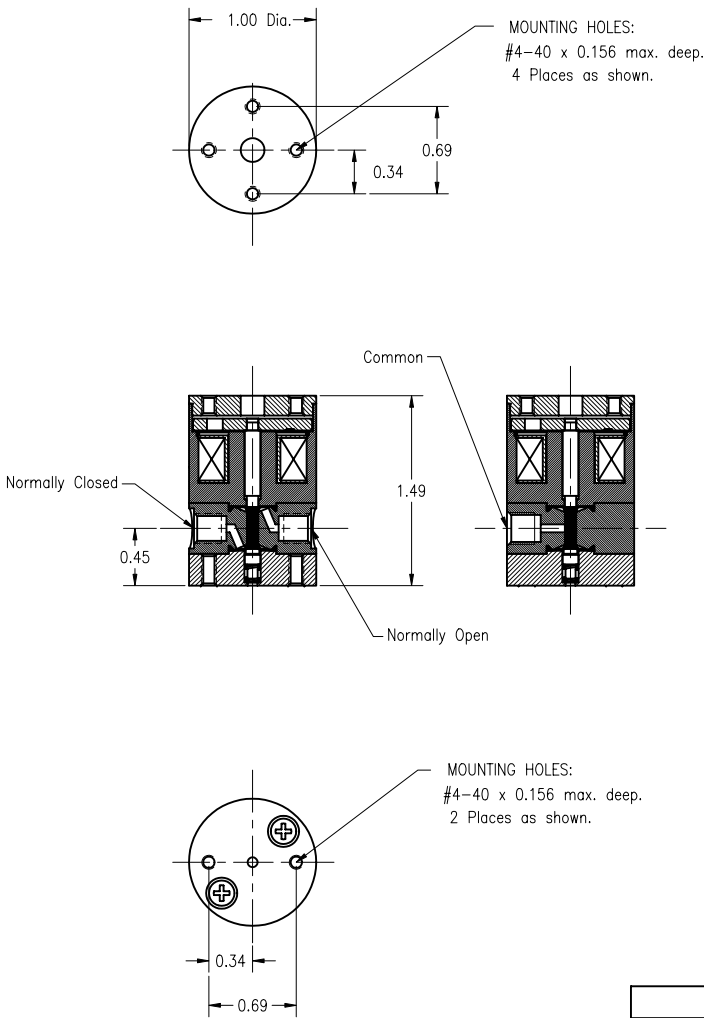


This drawing is NOT to be used for making reproductions thereof, or for making or using any apparatus, equipment, subject matter, or technical information without written authorization of Neptune Research and Development, Inc. All prints are to be returned to Neptune immediately upon completion of work.

SPECIFICATIONS:


**Mechanical:** (Each Port)  
TYPE: 3w Diverter  
PORT CONNECTION: 1/4-28 Flat Bottom  
NOMINAL ORIFICE: 0.062 In. (1.5 mm)  
OPERATING PRESSURE: Vacuum to 100 PSI (6.8 Bars)  
TEST PRESSURE: 100 PSI N<sup>2</sup> (Less than 3µl/Min. Leakage.)  
INTERNAL VOLUME: 57.17 µl From bottom of ports.  
WETTED MATERIALS: TEFLON®  
MOUNTING ORIENTATION: Any Position

**Electrical:** (At 70° C No Pressure)  
OPERATING VOLTAGE: 12 VDC (continous, see note 1.)  
12 to 24 volts subject to duty cycle and/or holding voltage applied.  
POWER CONSUMPTION: 6.25 Watts/12VDC (approx.)  
LEAD WIRES: #26 AWG, TFE Insulated  
White 18 in. (457 mm) long.  
TEST VOLTAGE (ON): < 9 VDC  
TEST VOLTAGE (OFF): 0.5 to 2 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	G K Stevens		Date	21-Apr-99			
2 Pl. Dec.	± 0.005	All Small Fin. Radii	0.003-0.008	Checked			Approved				
3 Pl. Dec.	± 0.002	All surfaces shall be	Concentric,	Part Name		HP225T031 3w 12VDC					
Angular	± 0.06°	Parallel, Flat, Square	and True								
All Fin. Surf.		to Each Other within	0.001 T.I.R.							Drawing Number	VALM277

