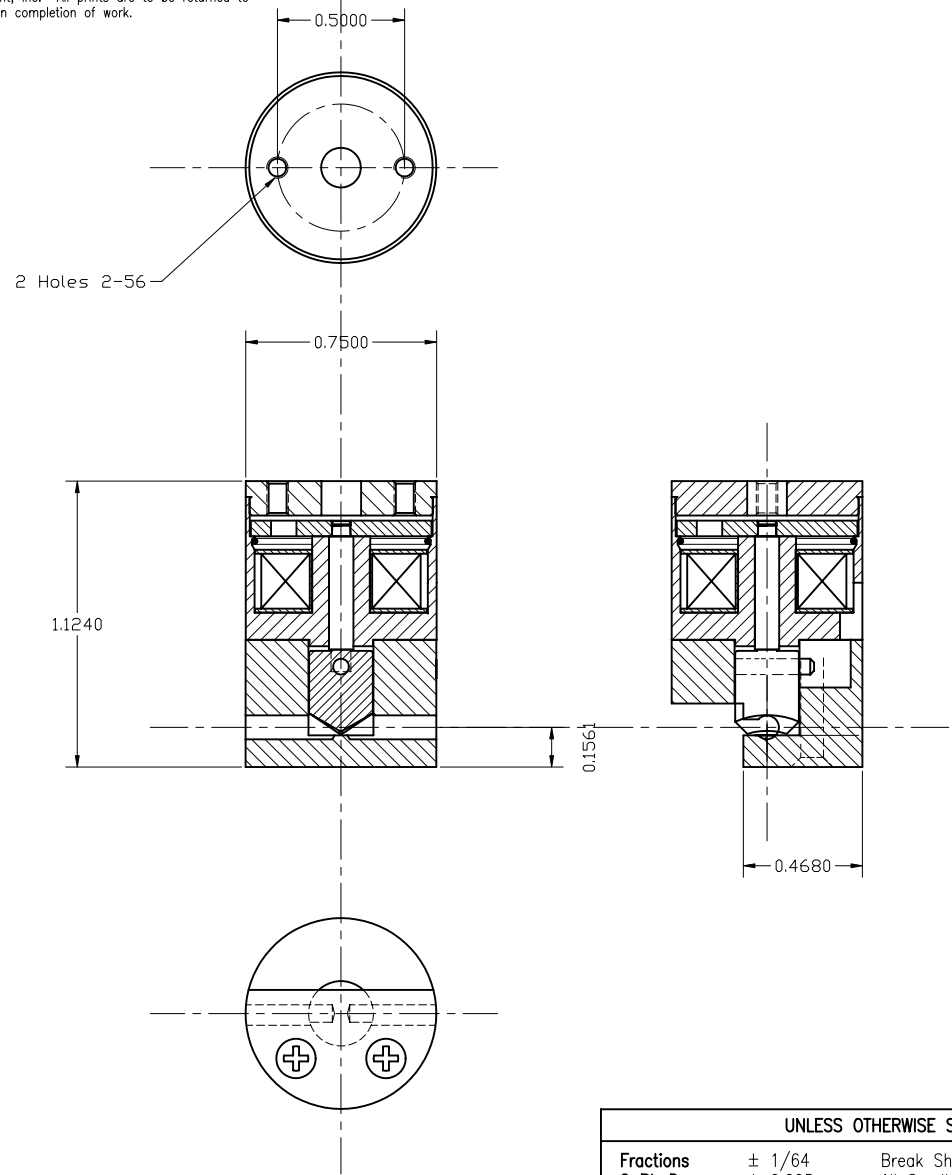


This drawing is NOT to be used for making reproductions thereof, or for making or using any apparatus, equipment, subject matter, or technical information without written authorization of Neptune Research and Development, Inc. All prints are to be returned to Neptune immediately upon completion of work.




**SPECIFICATIONS:**

- Mechanical:** (Each Port)
- TYPE: 2w Normally Open
  - PORT CONNECTION: Tube 0.065 OD x 0.030 ID
  - NOMINAL ORIFICE: 0.030 In. (0.762 mm)
  - OPERATING PRESSURE: Vacuum to 30 PSI (2 Bars)
  - TEST PRESSURE: 30 PSI N<sub>2</sub> (No leakage)
  - INTERNAL VOLUME: Not Applicable
- WETTED MATERIALS: Silicone Tube
- MOUNTING ORIENTATION: Any Position
- Electrical:** At 70° F ( No pressure applied )
- OPERATING VOLTAGE: 24 VDC ( Continuous ) See note 1.)  
24 to 48 volts subject to duty cycle and / or holding voltage applied.
  - POWER CONSUMPTION: 1.15 Watts/24 VDC (approx.)
  - LEAD WIRES: #26 AWG, TFE Insulated  
Blue 18 In. ( about 450mm ) long.
  - TEST VOLTAGE (ON): < 18 VDC
  - TEST VOLTAGE (OFF): 0.1 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.
- SPECIAL NOTE: Response time is for the valve only  
The tube response time will vary from one to another as will duty life of tube.

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 2 : 1 (B)     |           | Material As Noted |            |  |
|----------------------------|---------|-----------------------------------|-------------|---------------------|-----------|-------------------|------------|---|
| Fractions                  | ± 1/64  | Break Sharp Edges                 | 0.003-0.008 | Dr. By              | G Stevens | Date              | 03-23-2002 |   |
| 2 Pl. Dec.                 | ± 0.005 | All Small Fin. Radii              | 0.003-0.008 | Rev.                | F. Tarnok | Date              | 02-27-2008 |   |
| 3 Pl. Dec.                 | ± 0.002 | All surfaces shall be Concentric, |             | Part Name           |           | Drawing Number    |            |   |
| Angular                    | ± 0.06° | Parallel, Flat, Square and True   |             | .161P022 1xNO 24vdc |           | .161V255          |            |   |
| All Fin. Surf.             |         | to Each Other within 0.001 T.I.R. |             |                     |           |                   |            |   |

