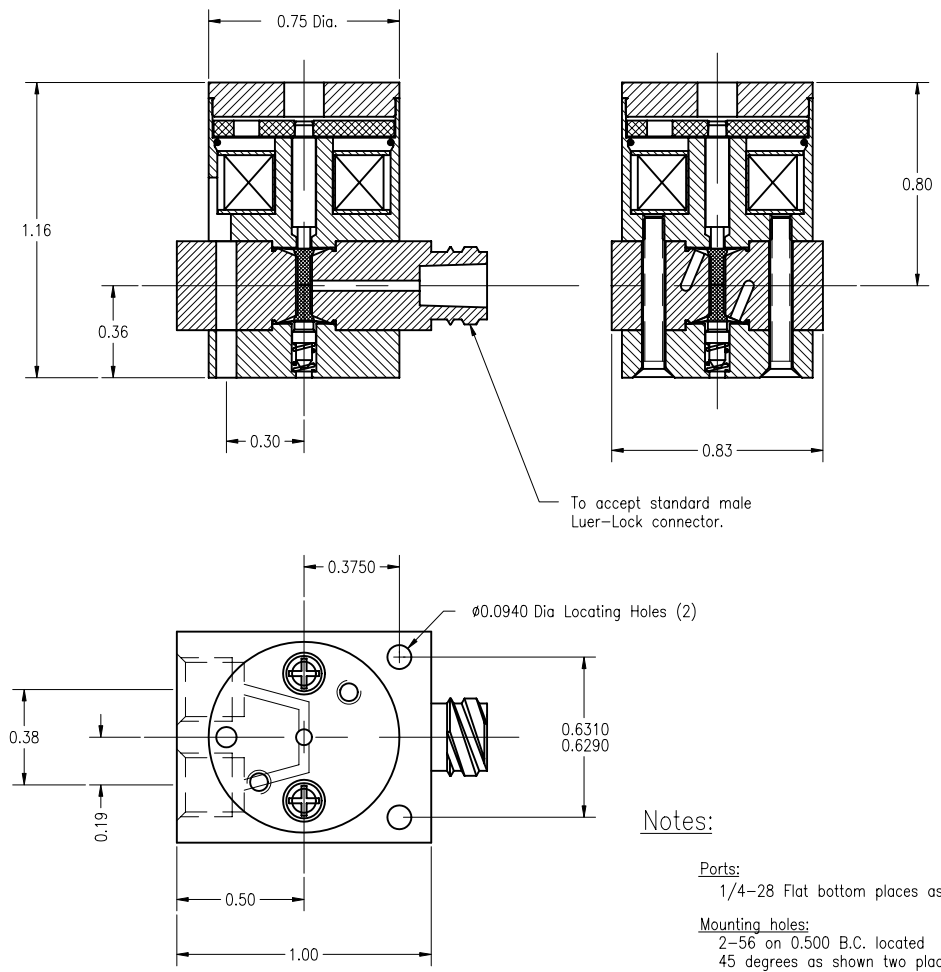


This drawing is NOT to be used for making reproductions thereof, or for making or using any apparatus, equipment, subject matter, or technical information without written authorization of Neptune Research and Development, Inc. All prints are to be returned to Neptune immediately upon completion of work.



Notes:

- Ports:
1/4-28 Flat bottom places as shown.
- Mounting holes:
2-56 on 0.500 B.C. located
45 degrees as shown two places.

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.

SPECIFICATIONS:

Mechanical:

- (Each Port)
- TYPE: 3w Diverter
- PORT CONNECTION: 1/4-28 Flat Bottom & Female Luer-Lock
- NOMINAL ORIFICE: 0.040 In. (1.0 mm)
- OPERATING PRESSURE: Vacuum to 30 PSI (2 Bars)
- TEST PRESSURE: 30 PSI N₂ (No leakage)
- INTERNAL VOLUME: 14 microliters (Port to Seat 2 places)
13.2 microliters (Common passage)
- WETTED MATERIALS: TEFLON® Diaphragm, KEL-F Body
- MOUNTING ORIENTATION: Any Position

Electrical:

- At 70° F (No pressure applied)
- OPERATING VOLTAGE: 12 VDC (Continuous) See note 1.)
12 to 24 volts subject to duty
cycle and / or holding voltage
applied.
- POWER CONSUMPTION: 1.15 Watts/12 VDC (approx.)
- LEAD WIRES: #26 AWG, TFE Insulated
Yellow 18 In. (about 450mm) 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.

UNLESS OTHERWISE SPECIFIED			Scale 2=1 (B)	Material As Noted
Fractions	± 1/64	Break Sharp Edges 0.003-0.008	Dr. By A. Sule	Date 02-16-1992
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 CSAT031 3w 12vdc	
Angular	± 0.06°	Parallel, Flat, Square and True		
All Fin. Surf.		to Each Other within 0.001 T.I.R.	Drawing Number VALM567	

