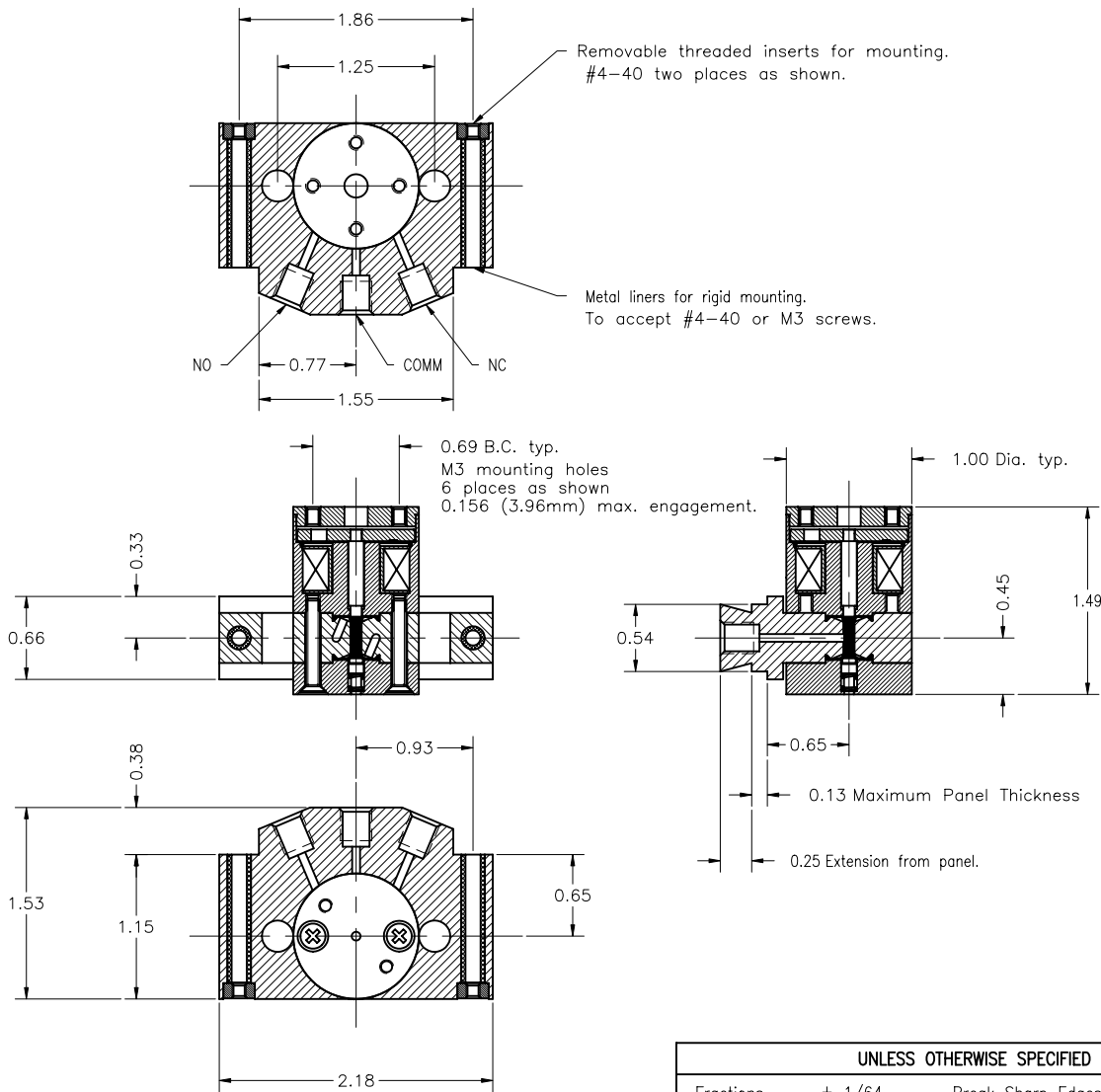


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SPECIFICATIONS:

**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 (6.89 Bars)  
TEST PRESSURE: 100 PSI N<sub>2</sub> (Less than 3µl/Min. Leakage.)  
INTERNAL VOLUME: 111 microliters from bottom of ports.  
WETTED MATERIALS: TEFLON®  
MOUNTING ORIENTATION: Any Position

**Electrical:** ( At 70° F No Pressure )  
OPERATING VOLTAGE: 12 VDC ( Continuous )  
12 to 24 VDC Subject to duty cycle and/or holding voltage applied.  
POWER CONSUMPTION: 6.3 Watts at 12 VDC ( Approximately )  
LEAD WIRES: #26 AWG, TFE Insulated  
White 18 Inches ( 457 mm ) long.  
TEST VOLTAGE (ON): < 9 VDC  
TEST VOLTAGE (OFF): 0.5 to 4 VDC  
RESPONSE TIME (ON): < 20 ms at 12 VDC  
5 to 20 ms subject to applied voltage and driving circuits.  
RESPONSE TIME (OFF): < 30 ms 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 06-05-1990
2 Pl. Dec.	± 0.005	All Small Fin. Radii	0.003-0.008	Rev. By	F. Tarnok	Date 01-15-2009
3 Pl. Dec.	± 0.002	All surfaces shall be Concentric,		Part Name		
Angular	± 0.06°	Parallel, Flat, Square and True		MHPNLBT031	3w 12VDC	Drawing Number
All Fin. Surf.		to Each Other within 0.001 T.I.R.				.VALM590

