VACCO
SPACE PRODUCTS

3/8" FILTER ASSEMBLY
F1D10559-01

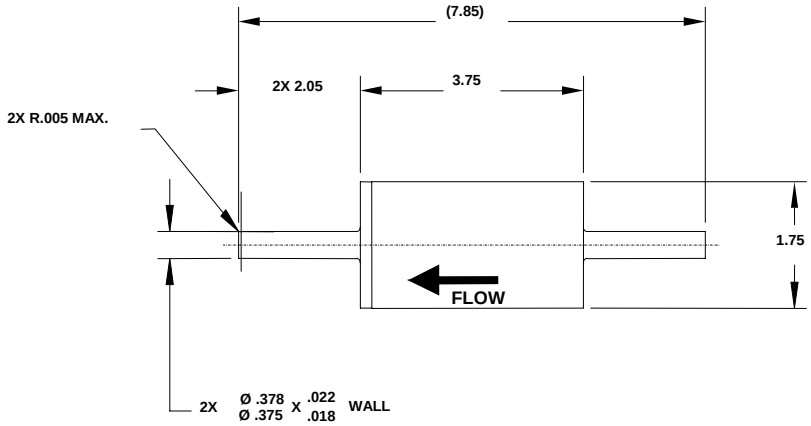
DESCRIPTION

VACCO Industries maintains a product line of flight qualified etched disc filters, providing absolute filtration for satellites and spacecraft since 1961.

The etched disc filter's superior characteristics are due to several features. First, each flow path is chemically etched into metal by a high precision photochemical- etching process. Next, each disc is individually cleaned prior to assembly in a clean room. Finally, no welding is performed on the stack element assembly assuring the cleanest and most reliable filter in the industry.

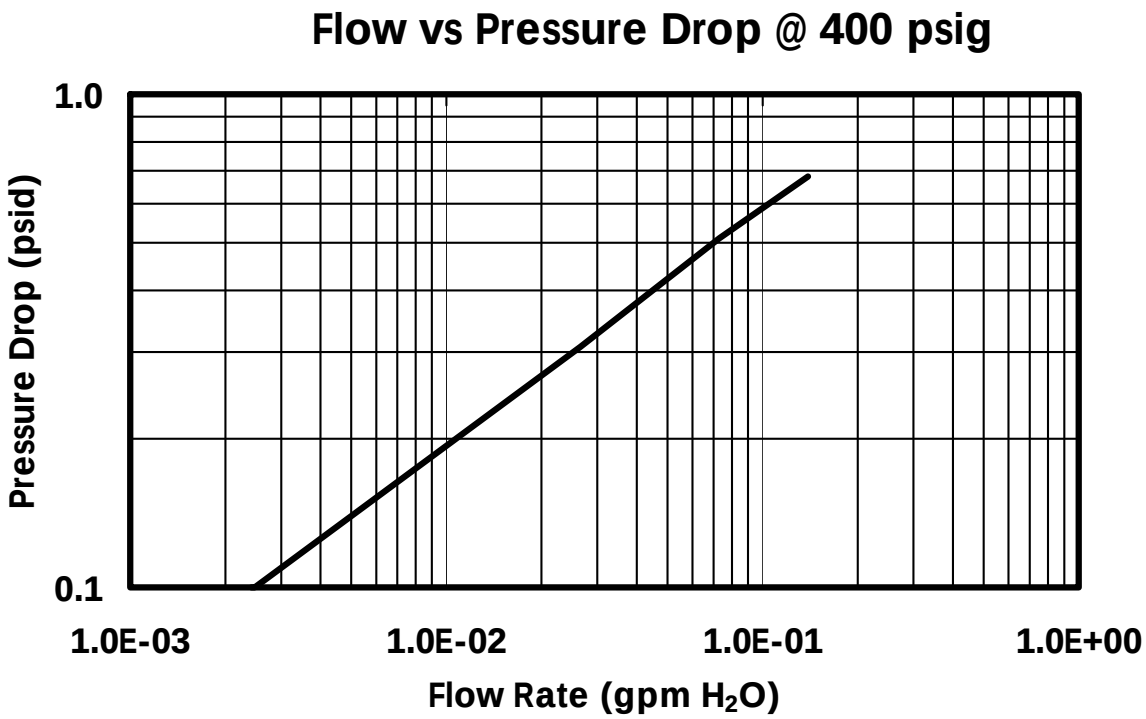
FEATURES

- Etched Disc Technology
- All Titanium Construction with a Titanium Etched Disc Assembly
- Weight – 300 grams (0.66 LB)
- 20 Micron Absolute Filtration
- 400 psig Operating Pressure



OPERATING PARAMETERS

Operating Pressure	400 psig
Proof Pressure	600 psig
Burst Pressure	1600 psig
Filtration Rating	20 microns abs
Flow Rate	>0.126 lb/s MMH & 0.182 lb/s N_2O_4
Pressure Drop (Clean)	0.50 to 1.00 psid @ rated flow
External Leakage	$<1x10^{-6}$ sccs GHe
Temperature	+10°F to + 170°F (-12°C to +77°C)
Weight	0.30 Kg (0.66 lb)
Proof Pressure	600 psig – 5 min.
External Leakage	2.1 x 10^{-10} sccs – 6 min.
Flow / Pressure Drop	0.9 psid @ 1.08 gpm H_2O, Inlet pressure: 410 psig @ ambient temperature
Random Vibration	14.40 G(rms), 1 min/axis

Performance characteristics are based upon customer requirements, as such, are not representative of component capabilities or limitations

PERFORMANCE CHARACTERISTICS