VACCO
SPACE PRODUCTS

¼" HIGH PRESSURE GAS FILTER
F1D10286-01

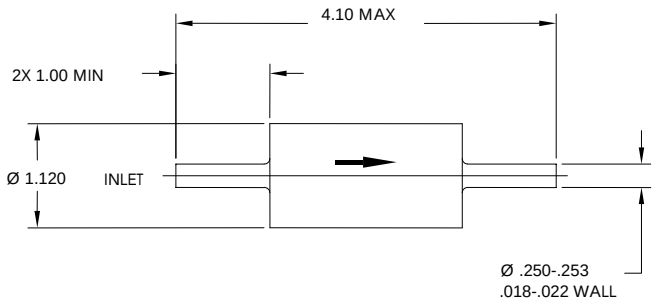
DESCRIPTION

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 Titanium Etched Disc Assembly
- Weight – 114g/0.25 lbm
- 10 Micron Absolute Filtration
- 4200 psig Operating Pressure



OPERATING PARAMETERS

Operating Pressure Range ..... 4200 psig
Proof Pressure ..... 6300 psig
Burst Pressure ..... 16800 psig
Flow Rate ..... 4 scfm GHe
Pressure Drop (Clean) ..... <1 psid @ rated flow
(Dirty).....<1 psid (max.) with 100 mg @ rated flow

External Leakage ..... <1 x 10^{-6} sccs GHe
Weight..... 0.25 lbm (114 grams)
Operating Temperature ..... +10° to +170° F
Filtration Rating..... 10 microns absolute
Random Vibration ..... 25.32 G(rms), 3 min/axis

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

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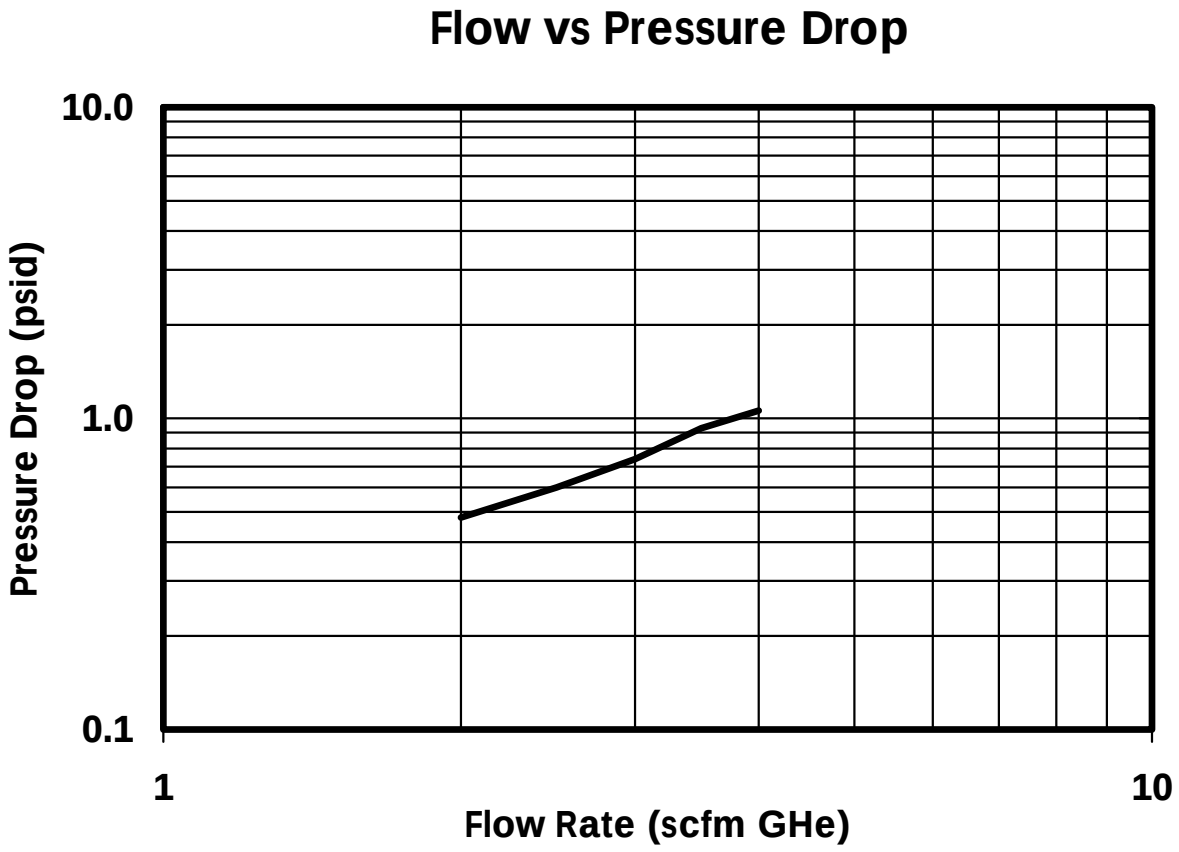
PERFORMANCE CHARACTERISTICS



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