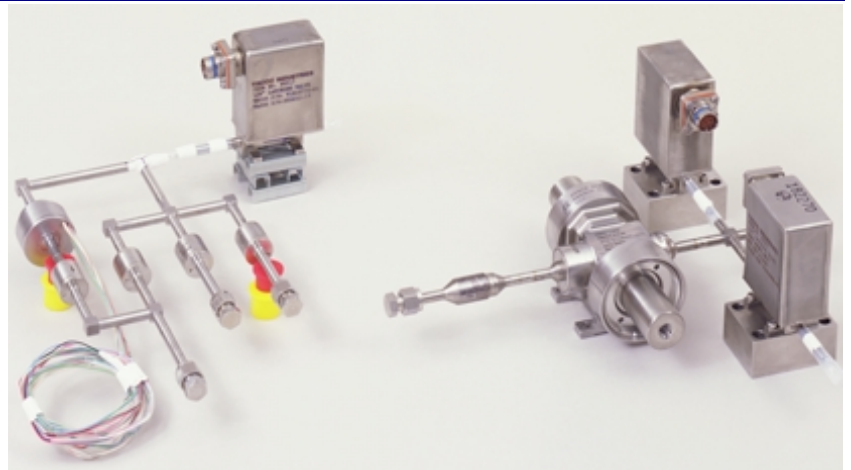


DESCRIPTION

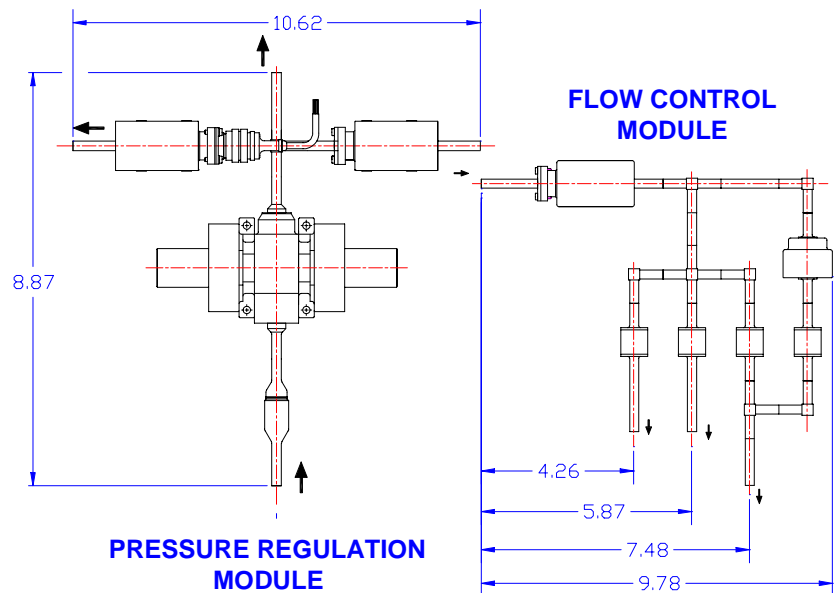
VACCO Industries offers a Propellant Management Sub-Unit designed to meet the industry's demand for high reliability, tight leakage, and high accuracy at extremely low xenon flows.

The Propellant Management Sub-Unit (PMS) consists of one Pressure Regulator Module and multiple Flow Control Modules (one per thruster). These modules utilize VACCO's proven space components and flow control technology. The components are fully developed for electric propulsion and other applications.



FEATURES

- ⊕ Operating Pressure: 0 to 2175 psig
- ⊕ 3 Outlet Ports
- ⊕ Flow Accuracy $\pm 2\%$
- ⊕ Multi Passage Flow Control Devices
- ⊕ Remote Isolation Capability
- ⊕ Integral Position Indication
- ⊕ 5 μ Absolute System Filter
- ⊕ Zero Xenon Leakage



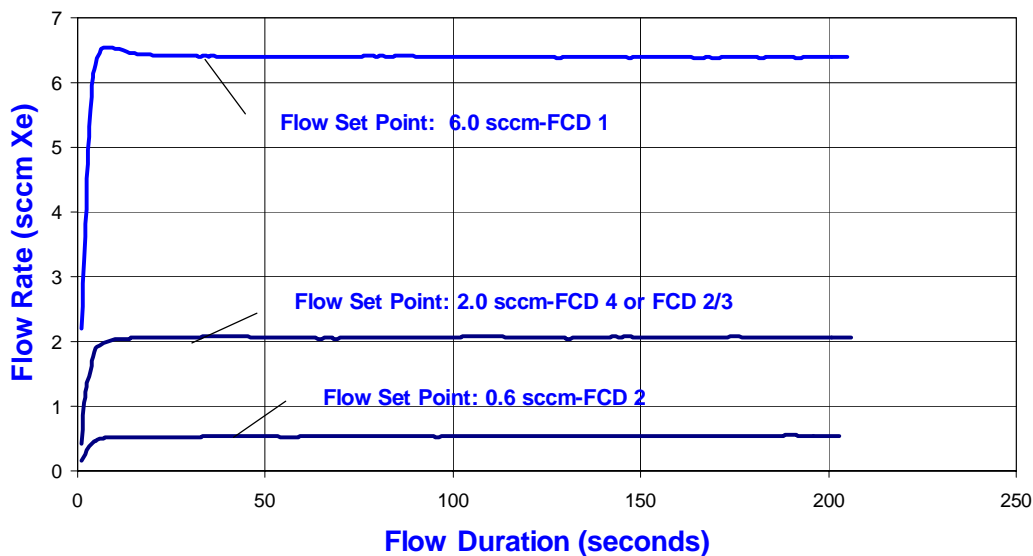
OPERATING PARAMETERS

Operating Pressure Range	0-2175 psia	Flow Set Point (FCD-4)	2.0 sccm GXe
Proof Pressure	3250 psia	Accuracy	$\pm 2\%$ of Set Flow
Burst Pressure	5400 psia	Internal Leakage	< 1.0 scch GHee
Flow Set Point (FCD-1)	6.5 sccm GXe	External Leakage	1×10^{-6} sccs GHee
Flow Set Point (FCD-2)	0.6 sccm GXe	Operating Temperature	-17° to 70° C
Flow Set Point (FCD-2/3)	2.0 sccm GXe	Cycle Life	$> 25,000$ Cycles

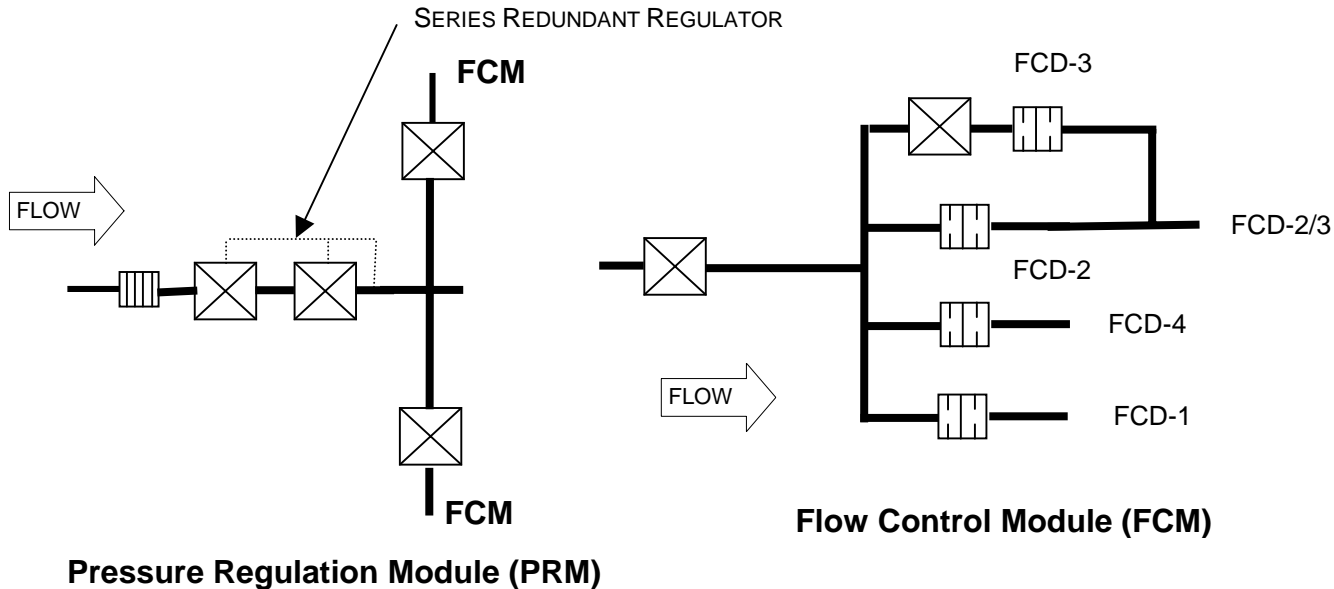
Performance characteristics are based upon customer requirements, as such, are not representative of component capabilities or limitations

PERFORMANCE CHARACTERISTICS

Flow Profile



SCHEMATIC



5 Micron Filter



Flow Control Device



Latch Valve