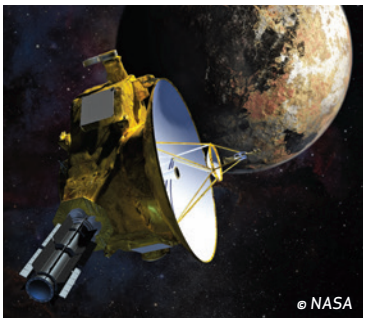
PILOT-OPERATED ISOLATION VALVE

Moog's model 54X163 high pressure isolation valve is a pilot-operated, externally vented design. Its high flow rate capability is coupled with a light-weight titanium housing, providing a unique solution for pressure control in launch vehicles and orbital platforms.

KEY FEATURES

- High pressure – 5000 psi MOP
- High flow rate – 0.4 lbm/sec Helium
- ESEOD = 0.300"
- Additive manufactured titanium housing
- Lightweight design 1.0 lbm



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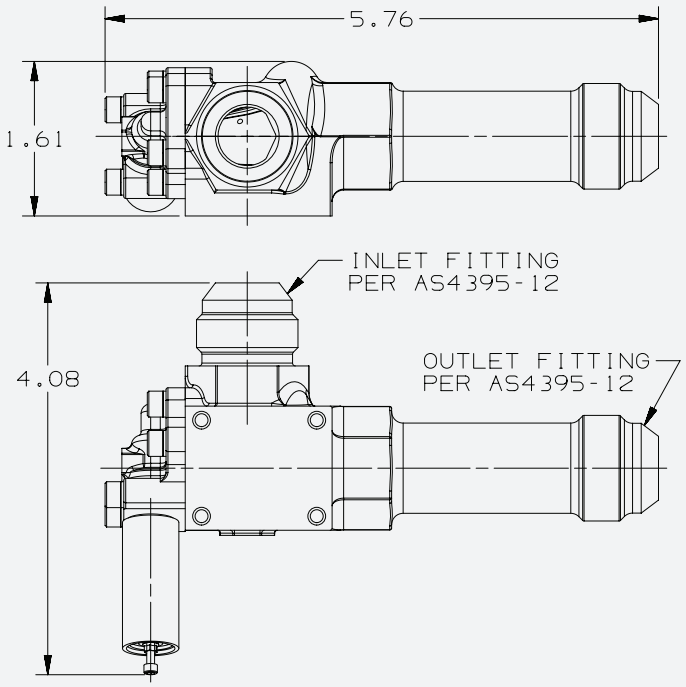
PILOT-OPERATED ISOLATION VALVE

PERFORMANCE CHARACTERISTICS

Characteristic	Performance/Interfaces
Mass per Unit	Baseline (no cover on solenoid): 1.0 lbm
Dimensions	5.25 x 4.0 x 1.7 inch
Operating Voltage	28 VDC
Current Draw	<1.0 Amp
Leakage – Internal	50 SCCM @ 70˚F
Leakage – External	150 SCCM @ 70˚F
Response – Open	<80 msec
Response – Close	<120 msec
Operating Temperature (ambient / cryo versions)	-65˚F to +140˚F / -290 F to +140˚F
Cycles	100

DIMENSIONAL DRAWING



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