

# Technical Requirements

- Article Name: FCV (Flow Control Valves) for a 400N Engine
- Quantities : 2ea (including related metallic seal, screws and washers)
- Performance Requirement

Compatible Media	- Operation Media : N2O4, MON-1 & MON-3, MMH - Test media: GHe, GN <sub>2</sub> , H <sub>2</sub> O, IPA
Max Inlet Pressures	> 20bar
Burst Pressures	> 49.3 bar
Response Time	30ms Max.
Power Consumption	38.4W Max. @ 27VDC
Internal Leakage	< 5 x 10 <sup>-4</sup> scc/sec
External Leakage	< 1 x 10 <sup>-6</sup> scc/sec
Cycle Life	> 5,000 cycles
Operating Temperature	0°C to 100°C
Flow vs. Pressure Drop	1.1 bar Max. @ 70g/sec H2O
Seal Material	PTFE or equivalent

- The valves shall have space born heritage.