

# Miniature HTP Fill and Drain Valve

- CubeSAT Hydrogen Peroxide Valve



Flight Half Coupling

**Nammo Space** has developed a simple, small screw-in device for propellant and fluid

loading and unloading in small spacecraft applications.

The threaded interface can be screwed directly into the tank in your propulsion system. This interface is sealed using an o-ring.

A simple Ground Half Coupling [GHC] supplied with the valve. The adaptor is screw onto body of the Flight Half Coupling and displaces the seal thus

permitting a flow path through the valve to the tank.

The action of unscrewing the GHC adaptor closes the valve, and the compression spring returns the valve to a sealed mode.

The hardware is made from Aluminium and weighs less than 23g.

Operating Media	H2O2, HTP, GN2
Maximum Operating Pressure	10 bar tested, can be increased
Operational Temperature	-35°C to +70°C
Proof Pressure	15 bar
Burst Pressure	30 bar
Internal Leakage	1 x 10 <sup>-4</sup> scc/s GHe
External Leakage	1 x 10 <sup>-6</sup> scc/s GHe
Fill/Drain Cycle Life	>100 open/close
Robustness	>50 FHC/GHC assembly /disassembly
Wetted Materials	Aluminium, Stainless steel, PTFE
Hardware Mass	<23 g
Length	48 mm
Fluidic Interface	1/8" BSPP
Technology Readiness Level	New Space application



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