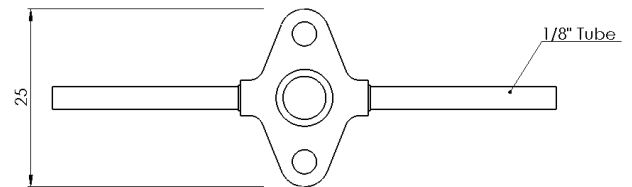
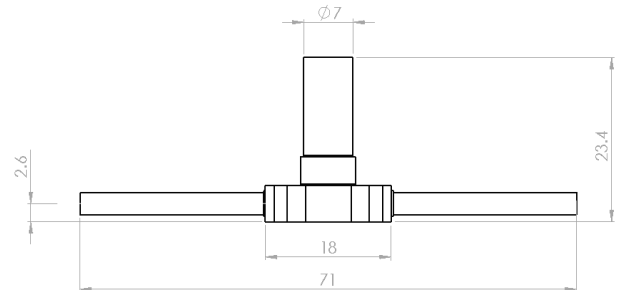


## Low Pressure Valves NW0.3



AST's miniaturized low pressure valves have been developed for an outstanding high actuation lifetime. A total of 1.1 billion ( $10^9$ ) cycles have been demonstrated.

The high flow version (NW0.8) of the valve has been qualified for FORMOSAT 5 mission in the application of a cold gas thruster. The 7 mm valve can be provided with customer specific interfaces.

Performance Characteristics	
Operating Media	Inert gases (GHe, GN <sub>2</sub> , GXe, GKr, GAR, etc.)
Inlet Pressure (MEOP)	1 ... 6 bar
Proof Pressure	2 x MEOP
Burst Pressure	4 x MEOP
Internal Leakage	$< 10^{-6}$ sccs GHe
External Leakage	$< 10^{-8}$ sccs GHe
Flow Rate	2 l/min at 2 bar (g)
Valve Type	2/2 way, normally closed
Fluid Interface	1/8" tube or customer specific
Orifice Size	0.3 mm
Weight	0.016 kg w/o cable or fitting 0.004 kg w/o holder
Operating Voltage	20 ... 24 V pull in 50% hold or up to 24 V continuous
Switch Time	on: <2ms, off: <2ms
Coil Resistance (20°C)	360 Ohm
Operational Temperature Range	-30° ... +80° C
Vibration	> 20g RMS
Lifetime	1 billion demonstrated
Export Restrictions	ITAR free
Wetted Surfaces	Stainless steel / FKM

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