



TANK TYPE	MOUNT	LOCATION
Pressurant	Strap	Other

This tank is a 13-inch spherical pressure vessel constructed of 6Al-4V titanium. Mounting is by the strap method. A single tube is provided for inlet and outlet operation.

**ATK Part Number 80198-1**

**SIZE: 13.385-inch OD**

**ISO 9001 & AS 9100 REGISTERED**

APPLICABLE DOCUMENTS		TANK CHARACTERISTICS			
Qualification Test Procedure	50-000139	Operating Pressure, psig	3,625	Total Volume, ci	1,147
Acceptance Test Procedure	50-000138	Proof Pressure, psig	6,208	Prop Volume, ci	NA
Qualification Test Report	56-00056	Cryo Proof, psig		Max Design Wt, lbs	16.90
Cleaning	CPP 3348	Design Burst Pressure, psig	8,268	Minimum Wall, inch	0.172
		Actual Burst Pressure, psig	9,400		

ACCEPTANCE ENVIRONMENTAL TESTS
Random Vib, Note 2
Cryogenic Proof

**Notes:**

- 1: Tooling owned by ATK.
- 2: Seamless tubing per HAC spec HMS20-1630, C1

ACCEPTANCE TESTS
Visual Inspection
Dimensional Inspection
Proof Pressure Test
Leakage
Radiographic Inspection
Cleanliness Verification

TANK CHARACTERISTICS (Metrics)			
Operating Pressure, bar	249.93	Total Volume, l	18.80
Proof Pressure, bar	428.02	Prop Volume, l	NA
Cryo Proof, bar	0.00	Max Design Wt, kg	7.67
Design Burst Pressure, bar	570.05	Minimum Wall, MM	4.369
Actual Burst Pressure, bar	648.10		

**FORGINGS**

FORGINGS P/N	SUPPLIER	Die
80-198061-1 (2)		

**TUBE TYPE AND SIZE**

TRANSITION	SIZE
80198-31	.250 OD x .035 Wall (6.35 x .508 mm)

