



<u>TANK TYPE</u>	<u>MOUNT</u>	<u>LOCATION</u>
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: 13.386-inch OD

ISO 9001 & AS 9100 REGISTERED

APPLICABLE DOCUMENTS

Qualification Test Procedure	50-000139
Acceptance Test Procedure	50-000138
Qualification Test Report	56-00056
Cleaning	CPP 3348

TANK CHARACTERISTICS

Operating Pressure, psig	3,625	Total Volume, ci	1,147
Proof Pressure, psig	6,208	Prop Volume, ci	NA
Cryo Proof, psig		Max Design Wt, lbs	16.90
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

ACCEPTANCE TESTS

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

Notes:

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

TANK CHARACTERISTICS (Metrics)

Operating Pressure, bar	249.93	Total Volume, l	79.08
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

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

TUBE TYPE AND SIZE

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

