



<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 80197-1

SIZE: 13.386-inch ID Sphere

**ISO 9001 & AS 9100 REGISTERED**

**APPLICABLE DOCUMENTS**

Qualification Test Procedure	50-000141
Acceptance Test Procedure	50-000140
Qualification Test Report	56-000057
Cleaning	CPP 3348

**TANK CHARACTERISTICS**

Operating Pressure, psig	480	Total Volume, ci	1,232
Proof Pressure, psig	805	Prop Volume, ci	
Cryo Proof, psig		Max Design Wt, lbs	2.87
Design Burst Pressure, psig	1,073	Minimum Wall, inch	0.024
Actual Burst Pressure, psig			

**ACCEPTANCE ENVIRONMENTAL TESTS**

Cryogenic Proof

**ACCEPTANCE TESTS**

Visual Inspection  
 Dimensional Inspection  
 Proof Pressure  
 Leakage  
 Radiographic Inspection  
 Cleanliness Verification  
 Shock  
 Acceleration  
 Vibration  
 Leakage  
 Thermal Vacuum  
 Leakage  
 Pressure Cycling  
 Leakage  
 Final Proof Pressure  
 Burst Pressure

**Notes:**

- 1: Tooling owned by ATK.
- 2: Also used by HAC on their A10 program (A10 tank is a 80197-3 configuration)
- 3: Report 55-000085 is for P/N 80197-3
- 4: Fracture Analysis Plan for 80197-3 is 54-000129
- 5: Proprietary Document

**TANK CHARACTERISTICS (Metrics)**

Operating Pressure, bar	33.09	Total Volume, l	84.94
Proof Pressure, bar	55.50	Prop Volume, l	NA
Cryo Proof, bar	0.00	Max Design Wt, kg	1.30
Design Burst Pressure, bar	73.98	Minimum Wall, MM	0.610
Actual Burst Pressure, bar	0.00		

**FORGINGS**

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

**TUBE TYPE AND SIZE**

<u>Titanium</u>	<u>SIZE</u>
80-345001-1	.250 OD x .035 Wall (6.35 x .889 MM)

