TANK TYPE
 MOUNT
 LOCATION

 Pressurant
 Strap
 Other

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



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

Notes:

- 1: Tooling owned by Northrop Grumman
- 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

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		_	

TANK CHARACTERISTICS (Metrics)

Operating Pressure, bar	33.09	Total Volume, I	84.94
Proof Pressure, bar	55.50	Prop Volume, I	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

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

TUBE TYPE AND SIZE

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

ACCEPTANCE ENVIRONMENTAL TESTS

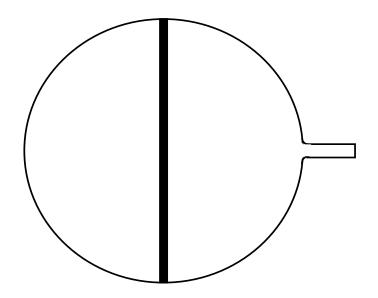
Cryogenic Proof

ACCEPTANCE TESTS

Visual Inspection
Dimensional Inspection
Proof Pressure
Leakage
Radiographic Inspection
Cleanliness Verification
Shock
Acceleration

Acceleration
Vibration
Leakage
Thermal Vacuum

Leakage Pressure Cycling Leakage Final Proof Pressure Burst Pressure



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