



TANK TYPE	MOUNT	LOCATION
Pressurant	Bosses	Polar

This tank is a 6-inch spherical pressure vessel constructed of 6Al-4V titanium. Mounting is accomplished on polar bosses. A single tube is provided for inlet and outlet operation.

ATK Part Number 80295-1

SIZE: 5.81-inch ID Sphere

SIZE: 147.5-mm

ISO 9001 & AS 9100 REGISTERED

APPLICABLE DOCUMENTS	TANK CHARACTERISTICS	ACCEPTANCE TESTS
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Acceptance Test Procedure	50-000244
Qualification Test Procedure	50-000245
Qualification Test Report	56-000088
Cleaning	CPP 3579

Operating Pressure, psig	8,000	Total Volume, ci	100
Proof Pressure, psig	12000	Prop Volume, ci	NA
Cryo Proof, psig	NA	Max Design Wt, lbs	3.20
Burst Pressure, psig	16000	Minimum Wall, inch	0.150

Preliminary Examination of Product
Pre-Proof Volume
Proof Pressure
Post-Proof Volume
External Leakage
Vibration
External Leakage
Final Examination of Product
Contamination Check

Notes:

- 1: Tooling belongs to LTV/Govt
- 2: Tooling was shipped to LTV, Nov-88
- 3: This tank has a mirror finish

TANK CHARACTERISTICS (Metrics)

Operating Pressure, bar	551.57	Total Volume, l	1.64
Proof Pressure, bar	827.36	Prop Volume, l	
Cryo Proof, bar	NO	Max Design Wt, kg	1.45
Burst Pressure, bar	#####	Minimum Wall, MM	3.810

FORGINGS

FORGINGS P/N	SUPPLIER	Die No
80-295061-1 (2)		

TUBE TYPE AND SIZE

TITANIUM	SIZE
80-295001-1	.250 OD x .037 Wall

