



TANK TYPE	MOUNT	LOCATION
Pressurant Composite	Bosses	Polar

This tank is a 16-inch x 26-inch long, carbon overwrapped titanium liner. The liner is constructed of commercially pure titanium with a nominal 0.020"-0.032" membrane thickness. Mounting is provided by polar bosses located on the tank centerline axis.

ATK Part Number 80400-1

SIZE: 16-inch OD x 26-inch Long

SIZE: 406-mm x 660-mm

ISO 9001 & AS 9100 REGISTERED

APPLICABLE DOCUMENTS

Qualification Test Procedure	50-000464
Delta Qualification Test Procedure	50-000513
Acceptance Test Procedure	50-000514
QTP, Pressure Hold	50-000510
Traceability	60-000042
Cleaning	CPP 3801

TANK CHARACTERISTICS

Operating Pressure, psig	4,500	Total Volume, ci	4,105
Proof Pressure, psig	5,625	Prop Volume, ci	NA
Cryo Proof, psig	NA	Max Design Wt, lbs	22.0
Burst Pressure, psig	7,500	Minimum Wall, inch	0.020

ACCEPTANCE ENVIRONMENTAL TESTS

None

ACCEPTANCE TESTS

Examination of Product
 Volume Determination & Proof & MEOP Pressure test
 External leakage
 Examination of Product
 Cleanliness Verification
 Data review & Ship

Notes:

- 1: Tooling owned by ATK.
- 2: Lockheed Martin Missiles & Space
- 3: Material-3AL-2.5V TUBING PER AMS 4943
- 4: Material-commercially Pure PER MIL-T-9046
- 5: Material-commercially Pure PER MIL-T-9047
- 6: Fracture Critical

TANK CHARACTERISTICS (Metrics)

Operating Pressure, Bar	310.26	Total Volume, l	67.27
Proof Pressure, Bar	387.82	Prop Volume, l	NA
Cryo Proof, Bar	NA	Max Design Wt, Kg	9.98
Burst Pressure, Bar	517.10	Minimum Wall, MM	0.508

MATERIALS

Liner	SUPPLIER
80-374100-1, CP-Ti	HB Evz Note 4
Dome, Formed	
80-400010-1 (2)	
Forging, End Fitting (2)	
80-4C	Note 5

TUBE TYPE AND SIZE

TITANIUM	SIZE
80-4C	Note 3

