

<b>TANK TYPE</b> Pressurant Composite	<b>MOUNT</b> Bosses	<b>LOCATION</b> Polar
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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.

**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 Northrop Grumman
- 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**

<b>Liner</b>	<b>SUPPLIER</b>
80-374100-1, CP-Ti	HB Ev; Note 4
<b>Dome, Formed</b>	
80-400010-1 (2)	
<b>Forging, End Fitting (2)</b>	
80-4C	Note 5

**TUBE TYPE AND SIZE**

<b>TITANIUM</b>	<b>SIZE</b>
80-4C	Note 3

