



TANK TYPE Pressurant Composite	MOUNT Bosses	LOCATION 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.		
ISO 9001 & AS 9100 REGISTERED		

ATK Part Number 80402-1

SIZE: 16-inch OD x 26-inch Long
SIZE: 406.4 x 660.4-MM

APPLICABLE DOCUMENTS	
Qualification Test Procedure	50-000464
Delta Qualification Test	50-000513
Acceptance Test Procedure	50-000507
QBS	56-000166
Cleaning	CPP 3839

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 PSI
- 2: Ishikajima-Harima Heavy Industries Co.
- 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	9.979
Burst Pressure, Bar	517.10	Minimum Wall, MM	0.508

TITANIUM		SIZE	
80-400002-1		Note 3	

MATERIALS			
Liner	SUPPLIER		
80-374100-1, CP-Ti	HB Evans	Note 4	
Dome, Formed			
80-400010-1 (2)			
Forging, End Fitting (2)			
80-400	Note 5		

