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TANK TYPE **MOUNT** LOCATION Pressurant **Bosses** Polar



The tank is a spherical pressure vessel constructed of 6Al-4V Titanium. The port is a .250 diameter titanium to 304 stainless steel transition tube. Mounting is provided by polar bosses located on the tank center axis.

ATK Part Number 80314-1

SIZE: 16.4-inch ID Sphere SIZE: 416.5-MM ID Sphere

ISO 9001 & AS 9100 REGISTERED

Operating Pressure, Bar

Proof Pressure, Bar

Burst Pressure, Bar

Cryo Proof, Bar

APPLICABLE DOCUMENTS

Acceptance Test Procedure	50-000299
Qualification Test Procedure	50-000300
Qualfication Test Report	56-000113
Fracture Analysis Plan	54-000068
Cleaning	CPP 3636

TANK CHARACTERISTICS

Operating Pressure, psig	3,600	Total Volume, ci	2,200
Proof Pressure, psig	5,400	Prop Volume, ci	NA
Cryo Proof, psig	8,740	Max Design Wt, Ibs	35.0
Burst Pressure, psig	7,200	Minimum Wall, inch	0.197

TANK CHARACTERISTICS (Metrics) 248.21 Total Volume, I 372.31 Prop Volume, Kg

No Max Design Wt, Kg

496.41 Minimum Wall, MM

36.05

15.88

5.004

ACCEPTANCE TESTS

Preliminary Examination of Product
Pre-Proof Volume
Proof Pressure
Post-Proof Volume
Cryogenic Proof Pressure
Radiographic and Penetrant Inspection
External Leakage
Final Examination of Product
Cleanliness Verfication

Notes:

- 1: Tooling belongs to LMSC
- 2: Proprietary Document
- 3: Fracture Critical

FORGINGS

	1 ORGINGO	
FORGINGS P/N	SUPPLIER	<u>Die No</u>

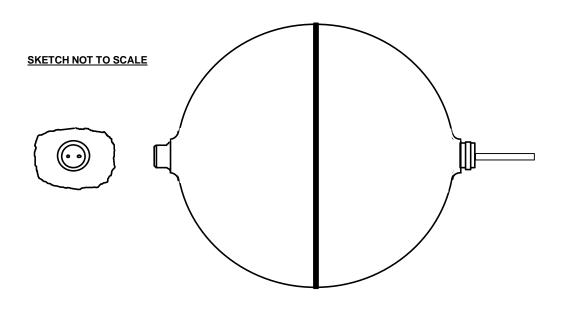
FORGINGS P/N	SUPPLIER	<u>Die No</u>
80011-63 (2)		

TUBE TYPE AND SIZE

<u>TRANSITION</u>	SIZE
80-314040-5	.250 OD x .028 Wall

QUALIFICATION TESTS

Acceptance Tes Operating Life Random Vibration Burst Post Test Analysis



6033 East Bandini Boulevard Commerce, California 90040 Telephone (323) 722-0222 Facsimile (323) 721-6002