



TANK TYPE	MOUNT	LOCATION
Pressurant	Bosses	Polar

This is a spherical pressure vessel constructed of titanium. Mounting is accomplished on polar bosses. This tank consists of two titanium hemispheres welded at the girth with a single polar outlet port and a threaded adapter fitting and a metallic seal.

**ATK Part Number 80509-1**

**SIZE: 23.6 inch ID Sphere**

**ISO 9001 & AS 9100 REGISTERED**

APPLICABLE DOCUMENTS	TANK CHARACTERISTICS	ACCEPTANCE TEST SEQUENCE
Acceptance Test Procedure 50-00673	Operating Pressure, psig 4,870 Total Volume, ci 7,100	Preliminary Examination of Product
Qualification Test Procedure 50-00696	Proof Pressure, psig 5,200 Prop Volume, ci NA	Pre-Proof Measurement Test
Qual Test Report TBD	Cryo Proof, psig N/A Max Design Wt, lbs 51.00	Proof Pressure Test
Cleaning CPP 3999	Burst Pressure, psig TBD Minimum Wall, inch 0.226	Post Proof Measurement Test
		External Leak Test
		Data Review

**Notes:**

- 1: Tooling owned by ATK
- 2: Proprietary Document

**TANK CHARACTERISTICS (Metrics)**

Operating Pressure, bar	335.77	Total Volume, l	116.350
Proof Pressure, bar	358.52	Prop Volume, l	NA
Cryo Proof, bar	N/A	Max Design Wt, Kg	23.133
Burst Pressure, bar	N/A	Minimum Wall, MM	5.740

**FORGINGS**

FORGINGS P/N	SUPPLIER	Die
1B94331	Arcturus	

