

<b>TANK TYPE</b> Pressurant	<b>MOUNT</b> Bosses	<b>LOCATION</b> Polar
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This is a 22-inch spherical pressure vessel constructed of 6AL-4V titanium. Mounting is accomplished on polar bosses. A single tube is provided for inlet and outlet operation.

**Part Number 80221-1**  
**SIZE: 22.25-inch OD Sphere**

**ISO 9001 & AS 9100 REGISTERED**

**APPLICABLE DOCUMENTS**

Acceptance Test Procedure	50-000179
Qualification Test Procedure	50-000180
Cleaning	CPP 3649

**TANK CHARACTERISTICS**

Operating Pressure, psig	3,000	Total Volume, ci	5,375
Proof Pressure, psig	4,500	Prop Volume, ci	NA
Cryo Proof, psig	N/A	Max Design Wt, lbs	54.80
Burst Pressure, psig	6,000	Minimum Wall, inch	0.211

**ACCEPTANCE ENVIRONMENTAL TESTS**

None

**Notes:**

- 1: Tooling owned by Northrop Grumman
- 2: Shell was qualified by similarity to 80118-1.
- 3: P95 Ullage Gas Tank

**ACCEPTANCE TESTS**

Examination of Product  
Scavenging Test  
Volume  
Proof Pressure  
Leakage  
Radiographic & Penetrant Inspection

**TANK CHARACTERISTICS (Metrics)**

Operating Pressure, bar	206.84	Total Volume, l	88.082
Proof Pressure, bar	310.26	Prop Volume, l	NA
Cryo Proof, bar	N/A	Max Design Wt, Kg	24.857
Burst Pressure, bar	413.68	Minimum Wall, MM	5.359

**FORGINGS**

FORGINGS P/N	SUPPLIER	Die
80112-61		

**SKETCH NOT TO SCALE**

