

<b>TANK TYPE</b> Pressurant	<b>MOUNT</b> Bosses	<b>LOCATION</b> Polar
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This is a spherical pressure vessel constructed of titanium. Mounting is accomplished on polar bosses.

**Part Number 80218-1**  
**SIZE: 24.21 inch ID Sphere**

**ISO 9001 & AS 9100 REGISTERED**

APPLICABLE DOCUMENTS	
Acceptance Test Procedure	50-000173
Qualification Test Procedure	50-000174
Fracture Analysis Plan	54-000120
Qual Test Report	56-000067
Cleaning	CPP 3649

TANK CHARACTERISTICS			
Operating Pressure, psig	3,400	Total Volume, ci	7,365
Proof Pressure, psig	4,530	Prop Volume, ci	NA
Cryo Proof, psig	5,700	Max Design Wt, lbs	79.00
Burst Pressure, psig	5,670	Minimum Wall, inch	0.226

ACCEPTANCE ENVIRONMENTAL TESTS
Cryogenic Proof

**Notes:**  
1: Tooling owned by Northrop Grumman  
2: Fracture mechanics analysis performed as part of MRB  
3: Proprietary Document

TANK CHARACTERISTICS (Metrics)			
Operating Pressure, bar	234.42	Total Volume, l	120.692
Proof Pressure, bar	312.33	Prop Volume, l	NA
Cryo Proof, bar	393.00	Max Design Wt, Kg	35.834
Burst Pressure, bar	390.93	Minimum Wall, MM	5.740

ACCEPTANCE TEST SEQUENCE
Preliminary Examination of Product
Proof Pressure Test
Final Examination of Product
Cleanliness Test

FORGINGS		
FORGINGS P/N	SUPPLIER	Die
80026-61 (2)		

**SKETCH NOT TO SCALE**

