



TANK TYPE Pressurant	MOUNT Bosses	LOCATION 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.

ATK 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 ATK
2: Shell was qualified by similiarity to 80118-1.
3: P95 Ullage Gas Tank

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

ACCEPTANCE TESTS

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

FORGINGS

FORGINGS P/N	SUPPLIER	Die
80112-61		

SKETCH NOT TO SCALE

