



TANK TYPE	MOUNT	LOCATION
Cone	Boss	Polar

This tank is a 13-inch Conosphere (Hemisphere & Cone) constructed of 6AL-4V titanium. Mounting is by polar bosses.

ATK Part Number 80148-1

ISO 9001 & AS 9100 REGISTERED

SIZE: 12.69-inch ID Conosphere
SIZE: 322.3-mm

APPLICABLE DOCUMENTS	
Acceptance Test Procedure	50-000106
Qualification Test Procedure	50-000107
Forging Qualification Report	55-000033
Qualification Test Report	56-000037
Cleaning	CPP 3281

TANK CHARACTERISTICS			
Operating Pressure, psig	585	Total Volume, ci	1,100
Proof Pressure, psig	1,002	Prop Volume, ci	830
Cryo Proof, psig	NA	Max Design Wt, lbs	3.50
Burst Pressure, psig	1,332	Minimum Wall, inch	0.020

ACCEPTANCE TEST
Preliminary Examination of Product
Pre-Proof Pressure
Proof Pressure
Post-Proof Pressure
Leakage Test
Weight
Radiographic and Penetrant
Final Examination of Product
Cleanliness
Packaging

Notes:

- 1: Tooling belongs to TRW
- 2: Tubing per AMS 4942 OR ASTM B 338-65

TANK CHARACTERISTICS			
Operating Pressure, Bar	40.33	Total Volume, l	18.03
Proof Pressure, Bar	69.08	Prop Volume, l	13.60
Cryo Proof, Bar	NA	Max Design Wt, Kg	1.59
Burst Pressure, Bar	91.84	Minimum Wall, MM	0.508

FORGINGS		
FORGINGS P/N	SUPPLIER	Die No
80148-61		
80148-63		

TUBE TYPE AND SIZE	
TITANIUM	SIZE
80-148002-1, Outlet	.375 OD x .035 Wall
Inlet Tube	.375 OD x .016 Wall x 1.75

TUBE TYPE AND SIZE (Metrics)	
TITANIUM	SIZE
80-148002-1, Outlet	9.52 OD x .88 Wall
Inlet Tube	9.52 OD x .40 Wall x 44.19

