

TANK TYPE	MOUNT	LOCATION
Diaphragm		
<p>The tank is a lightweight titanium tank with an AF-E-332 Rubber Diaphragm attached to the inside of the tank near the mid plane. There are two (2) ports; one for pressurization gas and one for the propellant supply.</p>		
<p>ISO 9001 & AS 9100 REGISTERED</p>		

Part Number 80579-1

SIZE: 40.85" DIA x 33.70" LONG

SIZE: 1037.59 mm DIA x 855.98 mm LONG

APPLICABLE DOCUMENTS

Acceptance Test Procedure	50-000864
Stress and Fracture Analysis	54-000473
Cleaning	CPP 3960

TANK CHARACTERISTICS

Operating Pressure, psig	412	Total Volume, in ³	28,144
Proof Pressure, psig	645	Max Design Wt, lbs	76.0
Cryo Proof, psig	N/A	Minimum Wall, inch	
Burst Pressure, psig		Qual Tank Mass, lbs	
Actual Burst, psig			

ACCEPTANCE TESTS

Examination of Product
Pre-Proof Volumetric Capacity Test
Proof Pressure Test
Post-Proof Volumetric Capacity Test
Internal Leak Test
External Leak Test
Radiographic Inspection
Dye Penetrant Inspection
Final Examination of Product
Cleanliness
Data Review

TANK CHARACTERISTICS (Metrics)

Operating Pressure, bar	28.4	Total Volume, l	461.2
Proof Pressure, bar	44.5	Max Design Wt, kg	34.5
Cryo Proof, bar	N/A	Minimum Wall, mm	
Burst Pressure, bar		Qual Tank Mass, kg	
Actual Burst, bar			

HEMISPHERE FORGINGS

HEMI P/N	QTY
80-260061-1	2

QUALIFICATION TESTS

RING FORGINGS

P/N	QTY	SIZE
80-263065-1	1	40.46" OD x 38.12" ID x 1.68" LONG
80-263063-1	1	42.57" OD x 39.56" ID x 3.81" LONG

TUBE TYPE AND SIZE

Ti 6AL-4V	QTY	SIZE
80-263005-1	1	.250"-.375" OD x .016"-.035" WALL x 4.70" LONG
Ti 6AL-4V		
80-579001-1	1	.375" OD x .025"-.035" WALL x 4.50" LONG

