

TANK TYPE Pressurant	MOUNT Bosses	LOCATION Polar
--------------------------------	------------------------	--------------------------

The tank is a spherical pressure vessel constructed of 6Al-4V Titanium. The port is a .250 diameter titanium to 304 stainless steel transition tube. Mounting is provided by polar bosses located on the tank center axis.

Part Number 80314-1

SIZE: 16.4-inch ID Sphere
SIZE: 416.5-MM ID Sphere

ISO 9001 & AS 9100 REGISTERED

APPLICABLE DOCUMENTS	TANK CHARACTERISTICS	ACCEPTANCE TESTS																										
<table border="1"> <tr><td>Acceptance Test Procedure</td><td>50-000299</td></tr> <tr><td>Qualification Test Procedure</td><td>50-000300</td></tr> <tr><td>Qualification Test Report</td><td>56-000113</td></tr> <tr><td>Fracture Analysis Plan</td><td>54-000068</td></tr> <tr><td>Cleaning</td><td>CPP 3636</td></tr> </table>	Acceptance Test Procedure	50-000299	Qualification Test Procedure	50-000300	Qualification Test Report	56-000113	Fracture Analysis Plan	54-000068	Cleaning	CPP 3636	<table border="1"> <tr><td>Operating Pressure, psig</td><td>3,600</td><td>Total Volume, ci</td><td>2,200</td></tr> <tr><td>Proof Pressure, psig</td><td>5,400</td><td>Prop Volume, ci</td><td>NA</td></tr> <tr><td>Cryo Proof, psig</td><td>8,740</td><td>Max Design Wt, lbs</td><td>35.0</td></tr> <tr><td>Burst Pressure, psig</td><td>7,200</td><td>Minimum Wall, inch</td><td>0.197</td></tr> </table>	Operating Pressure, psig	3,600	Total Volume, ci	2,200	Proof Pressure, psig	5,400	Prop Volume, ci	NA	Cryo Proof, psig	8,740	Max Design Wt, lbs	35.0	Burst Pressure, psig	7,200	Minimum Wall, inch	0.197	<ul style="list-style-type: none"> Preliminary Examination of Product Pre-Proof Volume Proof Pressure Post-Proof Volume Cryogenic Proof Pressure Radiographic and Penetrant Inspection External Leakage Final Examination of Product Cleanliness Verification
Acceptance Test Procedure	50-000299																											
Qualification Test Procedure	50-000300																											
Qualification Test Report	56-000113																											
Fracture Analysis Plan	54-000068																											
Cleaning	CPP 3636																											
Operating Pressure, psig	3,600	Total Volume, ci	2,200																									
Proof Pressure, psig	5,400	Prop Volume, ci	NA																									
Cryo Proof, psig	8,740	Max Design Wt, lbs	35.0																									
Burst Pressure, psig	7,200	Minimum Wall, inch	0.197																									

- Notes:**
- 1: Tooling belongs to LMSC
 - 2: Proprietary Document
 - 3: Fracture Critical

TANK CHARACTERISTICS (Metrics)			
Operating Pressure, Bar	248.21	Total Volume, l	36.05
Proof Pressure, Bar	372.31	Prop Volume, Kg	
Cryo Proof, Bar	No	Max Design Wt, Kg	15.88
Burst Pressure, Bar	496.41	Minimum Wall, MM	5.004

FORGINGS		
FORGINGS P/N	SUPPLIER	Die No
80011-63 (2)		

TUBE TYPE AND SIZE	
TRANSITION	SIZE
80-314040-5	.250 OD x .028 Wall

QUALIFICATION TESTS
<ul style="list-style-type: none"> Acceptance Tes Operating Life Random Vibration Burst Post Test Analysis

