



TANK TYPE Pressurant	MOUNT Bosses	LOCATION Polar
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This is a spherical pressure vessel constructed of titanium. Mounting is accomplished on polar bosses. This tank consists of two titanium hemispheres welded at the girth with a single polar outlet port and a threaded adapter fitting and a metallic seal.

ATK Part Number 80509-1
SIZE: 23.6 inch ID Sphere

ISO 9001 & AS 9100 REGISTERED

APPLICABLE DOCUMENTS	TANK CHARACTERISTICS	ACCEPTANCE TEST SEQUENCE																														
<table border="1"> <tr><td>Acceptance Test Procedure</td><td>50-00673</td></tr> <tr><td>Qualification Test Procedure</td><td>50-00696</td></tr> <tr><td>Qual Test Report</td><td>TBD</td></tr> <tr><td>Cleaning</td><td>CPP 3999</td></tr> </table>	Acceptance Test Procedure	50-00673	Qualification Test Procedure	50-00696	Qual Test Report	TBD	Cleaning	CPP 3999	<table border="1"> <tr><td>Operating Pressure, psig</td><td>4,870</td><td>Total Volume, ci</td><td>7,100</td></tr> <tr><td>Proof Pressure, psig</td><td>5,200</td><td>Prop Volume, ci</td><td>NA</td></tr> <tr><td>Cryo Proof, psig</td><td>N/A</td><td>Max Design Wt, lbs</td><td>51.00</td></tr> <tr><td>Burst Pressure, psig</td><td>TBD</td><td>Minimum Wall, inch</td><td>0.226</td></tr> </table>	Operating Pressure, psig	4,870	Total Volume, ci	7,100	Proof Pressure, psig	5,200	Prop Volume, ci	NA	Cryo Proof, psig	N/A	Max Design Wt, lbs	51.00	Burst Pressure, psig	TBD	Minimum Wall, inch	0.226	<table border="1"> <tr><td>Preliminary Examination of Product</td></tr> <tr><td>Pre-Proof Measurement Test</td></tr> <tr><td>Proof Pressure Test</td></tr> <tr><td>Post Proof Measurement Test</td></tr> <tr><td>External Leak Test</td></tr> <tr><td>Data Review</td></tr> </table>	Preliminary Examination of Product	Pre-Proof Measurement Test	Proof Pressure Test	Post Proof Measurement Test	External Leak Test	Data Review
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Notes:
1: Tooling owned by ATK
2: Proprietary Document

TANK CHARACTERISTICS (Metrics)			
Operating Pressure, bar	335.77	Total Volume, l	116.350
Proof Pressure, bar	358.52	Prop Volume, l	NA
Cryo Proof, bar	N/A	Max Design Wt, Kg	23.133
Burst Pressure, bar	N/A	Minimum Wall, MM	5.740

FORGINGS		
FORGINGS P/N	SUPPLIER	Die
1B94331	Arcturus	

