

TANK TYPE COPV	MOUNT POLAR	LOCATION Centerline Axis
ISO 9001 & AS 9100 REGISTERED		

Part Number 80606-1

SIZE: 17" DIA x 29.52" LONG
SIZE: 431.8 mm DIA x 749.8 mm LONG

APPLICABLE DOCUMENTS

Acceptance Test Procedure	50-000940
Qual Test Procedure	50-000941
Qual Test Report	56-000346
Stress and Dynamics Report	54-000524
Cleaning	CPP 4124

TANK CHARACTERISTICS

Operating Pressure, psig	4,800	Total Volume, in ³	4,884
Proof Pressure, psig	7,200	Max Design Wt, lbs	40.0
Cryo Proof, psig	N/A	Minimum Wall, inch	0.020
Burst Pressure, psig	9,600	Qual Tank Mass, lbs	
Actual Burst, psig			

ACCEPTANCE TESTS

Preliminary Examination of Product
Volumetric Capacity Measurement Pre-Proof
Proof Pressure Test
Volumetric Capacity Measurement, Post-Proof
Volumetric Capacity Measurement, MEOP
External Leak Test
NDE
Final Visual Inspection/Examination
Final Clean

TANK CHARACTERISTICS (Metrics)

Operating Pressure, bar	331	Total Volume, l	80
Proof Pressure, bar	497	Max Design Wt, kg	18.1
Cryo Proof, bar	N/A	Minimum Wall, mm	0.508
Burst Pressure, bar	662	Qual Tank Mass, kg	
Actual Burst, bar			

QUALIFICATION TESTS

Preliminary Examination of Product
Volumetric Capacity Measurement Pre-Proof
Proof Pressure Test
Volumetric Capacity Measurement, Post-Proof
Volumetric Capacity Measurement, MEOP
External Leak Test
NDE
Pressure Cycling (Proof/MEOP)
Thermal Cycling
Vibration Testing
Shock Testing
External Leak Test
Depressurization Testing
External Leak Test
NDE
Final Visual Inspection/Examination
Burst Pressure Test

HEMISPHERE FORGINGS

HEMI P/N	QTY
80-436061-1	2

ROLLED AND SEAM WELDED CYLINDER

P/N	QTY	SIZE
80-436100-1	1	15.870" OD x .020" THICK x 18" LONG

TUBE TYPE AND SIZE

Ti 3.0AL-2.5V	QTY	SIZE
80-606020-5	1	.375" OD x .0500" WALL x 3' LONG

