TANK & FUEL TYPE	MOUNT	LOCATION	PMD DEVICE
Simple PMD-NTO	Pad & Flex Plate	Cylinder & Ports	Vane

NORTHROP GRUMMAN

The PMD serves to maintain a volume of predictable propellant expulsion from the tank under low or zero gravity conditions. The tank is constructed from titanium 6Al-4V with a nominal membrane thickness of 0.016"-0.032'. Mounting is provided by 1 welded sidemount & 4 strut supports located on the tank inlet and outlet bosses. The propellant & pressurant ports are 3/8" titanium tubes.

Part Number 80612-1

SIZE: 21.25" ID x 56.43" Long
SIZE: 540 x 1433-mm

ISO 9001 & AS 9100 REGISTERED

APPLICABLE DOCUMENTS

Proto-Flight Test Procedure	50-000954
Cleaning	CPP 3820

Notes:

1: Tooling belongs to Northrop Grumman
2: This tank is Proton Launch Qualified
3: Fracture Critical

TANK CHARACTERISTICS

Operating Pressure, psig	300	Total Volume, ci	16,830
Proof Pressure, psig	375	Prop Volume, ci	16,476
Cryo Proof, psig	NA	Max Design Wt, lbs	37.50
Burst Pressure, psig	450	Minimum Wall, inch	0.017

TANK CHARACTERISTICS (Metrics)

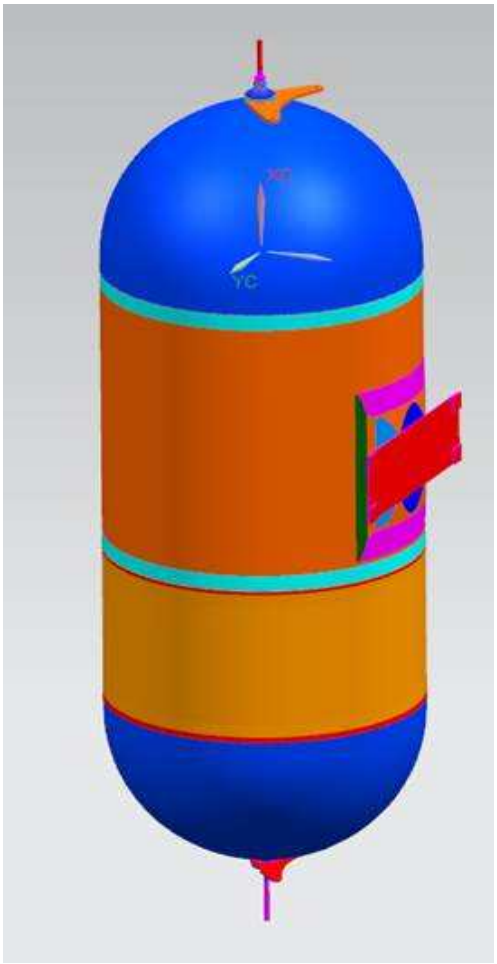
Operating Pressure, Bar	20.68	Total Volume, l	275.80
Proof Pressure, Bar	25.85	Prop Volume, l	270.00
Cryo Proof, Bar	NA	Max Design Wt, Kg	17.01
Burst Pressure, Bar	31.03	Minimum Wall, MM	0.432

FORGINGS

FORGINGS P/N	SUPPLIER	Die No
80-390061-1		
RING FORGING		**RING SIZE, Rough Machined**
80-390063-1, Center Section		21.87 +.12, ODx20.93 IDx22 +.25, -.00 L
80-390063-3, Center Section		22.38 +.12, OD x 20.93, -.09 ID x 22 +.25, -.00 L

ACCEPTANCE TESTS

Examination of Product
Volume & Proof Test
Vibration Test
External Leakage
Radiographic & Penetrant Inspection
Examination of Product
Cleanliness Verification
Data Review & Ship



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