TANK TYPE DIAPHRAGM	<u>MOUNT</u> Lug	LOCATION Mid-Plane	NORTHROP GRUMMAN
The propellant tank is a propellant expulsion is promid-plane. Mounting is acc is made to the propellant a	spherical p ivided by a re omplished by nd pressurant	ressure vessel constructed of 6AL-4V titanium. Positive eversing AF-E-332 rubber diaphragm retained at the spere lugs parallel with and adjacent to the mid-plane. Connection compartments through tube stubs.	Part Number 80569-1 SIZE: 22.7" DIA x 24.40" LONG SIZE: 576.58mm DIA x 619.76mm LONG
Acceptance Test Procedure Qual Test Procedure (80298-1) Qual Test Report (80298-1) FMECA	50-000826 50-000259 56-000099 54-000424	Operating Pressure, psig420Total Volume, in35,555Proof Pressure, psig630Max Design Wt, lbs30.0Cryo Proof, psigN/AMinimum Wall, inch0.033Burst Pressure, psig950Qual Tank Mass20.70	Preliminary Examination of Product Volumetric Capacity, Pre-Proof Proof Pressure Test Volumetric Capacity, Post-Proof
Cleaning	CPP4071	Actual Burst, psig 992 (80298-1) TANK CHARACTERISTICS (Metrics) Operating Pressure, bar 29 Total Volume 1 91	Differential pressure, Expulsion efficiency, & Mass flow rate test Internal Leakage Test External Leak Test Radiographic Inspection
		Proof Pressure, bar43Max Design Wt, kg13.61Cryo Proof, barN/AMinimum Wall, MM0.838Burst Pressure, bar65Qual Tank Mass525.8Actual Burst, bar68	Penetrant Inspection Determination of Weight and Final Inspection Cleanliness Verification Final Examination of Product
		HEMISPHERE FORGINGS	QUALIFICATION TESTS for 80298-1
		HEMI P/N QTY 80-203061-1 2 RING FORGINGS P/N QTY SIZE 80-203009-11 1 21.0" ID x 22.4" OD x 1.28" 533.4mm ID x 568.96mm OD x 32.512mm 50-298063-1 1 22.38" ID x 25.81" OD x .71" 568.425mm ID x 655.574mm OD x 18.034mm TUBE TYPE AND SIZE S120	Acceptance Test Acceleration Test Internal Leak Test External Leak Test Vibration Test Internal Leak Test External Leak Test Diaphragm Integrity Internal Leak Test Pressure Life Cycle External Leak Test Expulsion Test
		Ti 3AL-2.5V QTY SIZE 80-569001-3 2 0.375" OD x 0.020" Wall x 4.00" 9.525 OD mm x 0.508mm Wall x 101.6 mm	Internal Leak Test External Leak Test Burst Post Test Disassembly & Examintaion