

TANK TYPE Diaphragm	MOUNT Flange	LOCATION Girth
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This is a 40-inch oblate spheroid pressure vessel constructed of 6Al-4V titanium. Positive fuel expulsion is provided by fully reversible ethylene-propylene terpolymer (AF-E-332) rubber diaphragm retained (welded in) at the mid-plane. Mounting is accomplished on a continuous flange parallel with and adjacent to the mid-plane.

Part Number 80487-1

SIZE: 40-inch Oblate Spheroid
SIZE: 1016-mm

ISO 9001 & AS 9100 REGISTERED

APPLICABLE DOCUMENTS	TANK CHARACTERISTICS	ACCEPTANCE TESTS															
Acceptance Test Procedure 50-000657 Hubble DM Fracture Analysis Plan 56-000252 Cleaning CPP 3872	Operating Pressure, psig 400 Total Volume, ci 28,144 Proof Pressure, psig 500 Prop Volume, ci Various Cryo Proof, psig N/A Max Design Wt, lbs 78.0 Burst Pressure, psig 600 Minimum Wall, inch 0.050	Remove Thermostats and Temp. Sensors Examination of Product Pre-Proof Volumetric Capacity Test Proof Pressure Test Post-Proof Volumetric Capacity Test Internal Leak Test External Leak Test (END OF SCREENING TESTS)															
DIAPHRAGM INFORMATION	TANK CHARACTERISTICS (Metrics)	QUALIFICATION TESTS															
Diaphragm P/N 80-263027-1 Diaphragm Mold P/N T-1868 Diaphragm Gross Wt 7.6 lbs Diaphragm Matl Type AF-E-332 Material Specification, Rubber MT3-73 Diaphragm Processing 90-000094 N-Ray Procedure 1002	Operating Pressure, Bar 27.58 Total Volume, l 461.20 Proof Pressure, Bar 34.47 Prop Volume, l Various Cryo Proof, Bar N/A Max Design Wt, Kg 35.38 Burst Pressure, Bar 41.37 Minimum Wall, MM 1.270	Qual by similarity on 80263-1.															
Notes: 1: Tooling owned by Northrop Grumman 2: Proprietary Document 3: This tank was originally qualified under P/N 80263 and the QTP is 50-000209 & QTR is 56-000075 Tube Protector SK-1499 Different tubes, same mounting flange as 80263-1	FORGINGS																
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PROGRAM INFORMATION																	
Program Hubble DeOrbit Customer AEROJET Customer P/N S18185 Original Job No 0502 Customer Installed Device No Customer Controlled Des. No																	

