TANK TYPE Pressurant

**MOUNT** 

**LOCATION** 

**Bosses** 

Polar

NORTHROP GRUMMAN

This is a 22-inch spherical pressure vessel constructed of 6AL-4V titanium. Mounting is accomplished on polar bosses. A single tube is provided for inlet and outlet operation.

80112-61

Part Number 80221-1

SIZE: 22.25-inch OD Sphere

## APPLICABLE DOCUMENTS

| Acceptance Test Procedure    | 50-000179 |
|------------------------------|-----------|
| Qualification Test Procedure | 50-000180 |
| Cleaning                     | CPP 3649  |

## Notes:

- 1: Tooling owned by Northrop Grumman
- 2: Shell was qualified by similiarity to 80118-1.
- 3: P95 Ullage Gas Tank

## TANK CHARACTERISTICS

| Operating Pressure, psig | 3,000                 | Total Volume, ci   | 5,375 |
|--------------------------|-----------------------|--------------------|-------|
| Proof Pressure, psig     | 4,500 Prop Volume, ci |                    | NA    |
| Cryo Proof, psig         | N/A                   | Max Design Wt, lbs | 54.80 |
| Burst Pressure, psig     | 6,000                 | Minimum Wall, inch | 0.211 |

## **TANK CHARACTERISTICS (Metrics)**

| Operating Pressure, bar | 206.84 | Total Volume, I   | 88.082 |
|-------------------------|--------|-------------------|--------|
| Proof Pressure, bar     | 310.26 | Prop Volume, I    | NA     |
| Cryo Proof, bar         | N/A    | Max Design Wt, Kg | 24.857 |
| Burst Pressure, bar     | 413.68 | Minimum Wall, MM  | 5.359  |

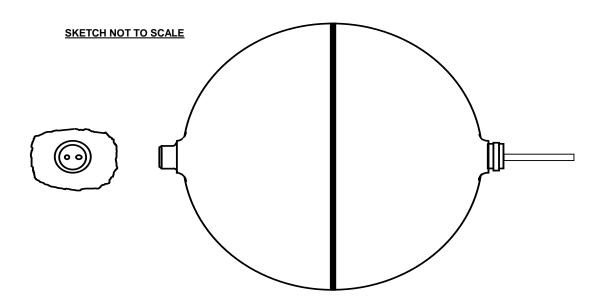
| FORGINGS     |                 |            |  |  |
|--------------|-----------------|------------|--|--|
| FORGINGS P/N | <u>SUPPLIER</u> | <u>Die</u> |  |  |

## **ACCEPTANCE ENVIRONMENTAL TESTS**

None

# ACCEPTANCE TESTS

Examination of Product Scavenging Test Volume Proof Pressure Leakage Radiographic & Penetrant Inspection



6033 East Bandini Boulevard Commerce, California 90040 Telephone (323) 722-0222 Facsimile (323) 721-6002