

Generic Propellant Transfer Unit (GPTU) DESCRIPTION

A GPTU is multipurpose portable tank designed to the DOT 51 specification. The GPTU is top loading and vertical oriented. It is pressure loaded/offloaded using either helium or nitrogen as a pressurant gas. It can be used to directly load spacecraft when connected to a propellant control panel. The GPTU is constructed of 304L Stainless Steel and is insulated by virtue of its double-tank design (tank-in-a-tank like a cryogenic dewar). Built-in load cells determine propellant quantity within approximately 5 pounds. It can be lifted with a crane or a forklift and is transported utilizing a specially designed trailer.

Dimensions: 7'-10³/₄" high with an outer diameter of 5'4"

Weight: 5,760 lb. Tare

Capacity: 500 gallons with 10% ullage

Operating Pressure: 0 to 50 psig

MAWP: 300 psig

PRV Setting: 286 psig

Connections:

Fill/Drain: 1.5" KC male or reduced to 0.5" KC

Pressure/Vent: 0.75" KC male or reduced to 0.5" KC