

## Design

- Modular Solution for FBO Fuel Farms
- Standardized Module Designs
- Fixed or Rotary Wing Aircraft
- Avgas or Jet Fuel

## Features

- Fuel Transport Unloading
- Refueler Bottom Loading
- Direct-to-Plane Refueling
- Remote Dispensing

## Quality

- Premium, brand-name components
- Precision-engineered, built and tested by Refueling Specialists
- Over 50 years of industry experience
- Stringent Quality Controls

## Standards

- NFPA 30 & 407
- ATA 103
- FAA AC-150/5230-4
- API 1581 & 1529

## Options

- Aluminum & SS Enclosures
- Self-Serve Card Readers
- Water Defense, Grounding & Overfill Protection Systems
- “Hot Refuel” Pantograph Systems

## Direct To Plane (DTP-U) Module Specifications



### 1. System Functions:

-Underwing Refuel Jet Aircraft at 100 USGPM

### 2. System Piping:

-2" Stainless Steel Globe Valve (skid inlet)

-2" Stainless Steel Ball Valve (hose reel inlet)

-2" 304 Stainless Steel welded piping throughout

### 3. Deadman Valve:

-2" Watts Scorpion 220-1K Hydraulic Deadman Control Valve, ductile iron w/heat fused epoxy lining, stainless steel pilots & tubing

### 4. Deadman Reel:

-Hannay N617-23-24-10.5G Dual Hose Deadman Reel, Spring Rewind with dual swivel inlets & 4-way hose roller assembly

### 5. Deadman Handle:

-Whittaker 13024KH-C/O Hydraulic Deadman Handle w/100 ft. of dual 3/8" Deadman Hose

## Direct To Plane (DTP-U) Module Specifications

### 6. Meter:

-2" Liquid Controls M-7-A-2 Meter with large numeral counter rated at 100 USGPM flowrate. Aluminum & stainless steel construction

### 7. Hose Reel:

-Hannay EPJ 228-33-34 Electric Rewind Hose Reel with aluminum internals. Reel furnished with XP rewind motor (115VAC/1/60 hz.) and XP switch

### 8. Hose:

-1 ½" x 75 ft. Titan SS-124 Aircraft Refueling Hose coupled m x m. Tested, serialized & certified to comply with NFPA 407 & API 1529

### 9. Nozzle:

-2" Whittaker F116 Single Point Nozzle with 2" inlet swivel, 60 mesh strainer, 45 psig HECV (Hose End Control Valve) and dust cap

### 10. Static Reel:

-Hannay HGR100-100 Static Reel, spring rewind with 100 ft. plastic-coated cable & ground clip

### 11. Skid System:

-Fabricated Steel, Perimeter Box Frame Skid with structural steel crossmembers to support key equipment items. Primed & painted single color

### 12. Options:

-Aluminum Cabinet enclosure w/removable panels  
-Welded Steel Containment Pan w/drain