



MARS

M o d u l a r A i r c r a f t R e f u e l i n g S y s t e m s

TLO (Truck Loading) Module Specifications

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

Compliance

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

Options

- Aluminum & SS Enclosures
- Self-Serve Card Readers
- Water Defense, Grounding & Overflow Protection Systems
- "Hot Refuel" Pantograph Systems

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1. System Functions: -Bottom Load Truck Refuelers at 200 USGPM
2. Inlet Piping: -3" Butterfly Valve, Ductile Iron w/SS trim
-3" Welded, Sch. carbon steel piping throughout
3. Relaxation Tank: -100 USG capacity Vertical Relaxation Tank, epoxy-coated carbon steel construction with 3" flanged connections, air eliminator w/check valve, pressure relief valve and manual water drain valve. NOTE: Relaxation Tank required by NFPA 407 for Bottom Loading of Refueler Trucks
4. Meter: -3" Liquid Controls Model M-15-A-2 Meter with large numeral counter. Meter rated at 200 USGPM flowrate. Aluminum & stainless steel construction
5. Deadman Valve: -3" Emco Wheaton Deadman Loading Valve, aluminum construction, lever-operated w/slow-closing, shock-free operation
6. Loading Hose: -2 1/2" x 12 ft. Titan SS244 Aircraft Refueling Hose, coupled male x male. Tested, serialized & certified per NFPA 407 & API 1529. Hose furnished with 3" aluminum, dual plane swivel joint for ease of deployment
8. Loading Nozzle: -2 1/2" Whittaker F116 Underwing Nozzle with inlet swivel, 60 mesh strainer & dust cover
9. Static Reel: -Hannay GR 75-20 Spring Rewind Static Reel with 20 ft. of plastic-coated cable & ground clip
10. Skid System: -Fabricated Steel, Perimeter Box Frame Skid with structural steel crossmembers to support key equipment items. Primed & painted single color
11. Options: -Welded, steel containment pan w/drain
-Hydraulic or Electric Deadman Valve
-Electronic Deadman System