



Insight  Onsite

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AUTOMATIC FUELPORT Sample Specification
Explosion-proof Unit for Gasoline Transfer
Multi tank system

Engineer's specifications for a storage tank fill box with automatic overflow prevention and automatic fill shutoff.

- 1.0 Fuel Filling System for Gasoline Related Fuels or for use inside a Class 1 environment
- 1.1 Provided for freestanding installation at delivery truck curbside, a Simplex Automatic Fuelport grade level fill box with spill containment, overflow prevention and automatic fill shutoff in the filling of fuel oil storage tanks.
- 1.2 The Fuelport shall be installed outdoors upon a concrete pad at a location as specified.
- 1.3 The Fuelport shall include the following fittings and features:
 - Steel, weatherproof, lockable box with hinged doors finished in white industrial enamel.
 - External, stainless steel ground stud for attachment of delivery truck ground cable.
 - Ground stud for connection to earth ground
 - Quick detachable coupling for attachment of delivery hose (Specify 2", 3", or 4")
 - Inlet check valve
 - 3" motorized valve for closure on storage tanks high level and leak conditions, shipped loose, one per tank
 - 20gallon spill containment sump with drain hand pump. To remove spill contents to storage tank via fill pipe. Includes check valve and fire rated shutoff valve.
 - Threaded outlet fitting for attachment of fill pipe to storage tank.
 - 3" automatic shutoff fusible-link valve. (optional)
 - Option: Specify Vapor Recovery fitting here if required within the area of installation
- 1.4 The Fuelport shall include a Type 7 rated Explosion proof, control system with alarm, overflow alarm and automatic shutoff system as described below. The system requires an external source of AC power, 115v, 1-ph, 15-amp circuit.
- 1.5 The Fuelport shall include a PLC, fill limiting control system and shall include:
 - Type 7 rainproof enclosure with bolted, gasketed access door
 - Leak sensor floatswitch for installation in the storage tank's interstitial space
 - High visibility red alarm light: 90% level
 - High visibility red alarm light: 95% level
 - High visibility red alarm light: 98% level
 - 90 dB audible alarm horn activated at 90%, 95%, 98% and on storage tank leak
 - Control power ON/OFF switch
 - Fill valve OPEN/CLOSE switch
 - Valve closure at 90% level
 - Override circuit and 30 second timer to permit override of 90% shutoff to allow pump-out of delivery hose or spill containment. 95%, 98%, and leak lockout cannot be overridden.
 - Leak sensor alarm circuit input which activates automatic valve closure



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- Indicators for:
 - Power available
 - Fill valve disarm
 - Fill valve open
 - Tank leak
 - Tank selection via selector switch on multi-tank systems. The fill valve for the selected tank shall be operated by the fill controller described herein. Furthermore, the controller shall be dedicated to the selected tank. Any none selected tank shall have its fill valve disabled and rendered inoperative. The 90%, 95%, 98%, and leak floats are also monitored to prevent inadvertent cross filling
- 1.6 The AUTOMATIC FUELPORT system shall be supplied with manufacturer's warranty.
- 1.7 The services of a factory-authorized or factory based, field service technician to provide start-up services, including inspection, calibration and first operation are available for the AUTOMATIC FUELPORT.
- 1.8 System shall be a Simplex AUTOMATIC FUELPORT, Model "AFP-G" as described above. To be supplied by Simplex, Inc, 5300 Rising Moon Road, Springfield, IL 62711. 217-483-1600.