



Insight  Onsite

Simplex, Inc. 5300 Rising Moon Road,  
Springfield, IL 62711-6228  
217-483-1600 (24hr.) 800-637-8603  
217-483-1616 (Fax)  
[www.simplexdirect.com](http://www.simplexdirect.com)

### **AUTOMATIC FUELPORT Sample Specification** Explosion-proof Unit for Gasoline Transfer

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 location
- 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
  - 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 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
  - 90 dB audible alarm horn activated at 90%, 95%, 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%, and leak lockout cannot be overridden.
  - Leak sensor alarm circuit input which activates automatic valve closure
  - Indicators for:
    - Power available
    - Fill valve disarm

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- -Fill valve open
  - -Tank leak
- 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.