



Insight  Onsite

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COMPACT AUTOMATIC FUELPORTR Sample Specification Flush mounted single tank system

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

1.0 Fuel Filling System

- 1.1 Provided for freestanding installation at delivery truck curbside, a Simplex Compact Automatic Fuelport grade level fill box with spill containment, overflow prevention and automatic fill shutoff in the filling of a fuel oil storage tank.
- 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 powder coat.
 - Flush mount construction with 2" perimeter wall flange and rear discharge fitting
 - 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
 - Inlet motorized ball valve for closure on storage tank high level and leak conditions.
 - 7gallon spill containment sump with drain hand pump. To remove spill contents to storage tank via fill pipe. Includes check valve and shutoff valve.
 - Threaded outlet fitting for attachment of fill pipe to storage tank.
- 1.4 The Fuelport shall include a control system with tank gauging, 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. (208/230/460, 3-phase units also available.)
- 1.5 A, shipped loose, PLC, fill limiting control system shall be provided and shall include:
 - UL508A TYPE 3R rainproof, lockable enclosure with hinged door
 - 3" HMI touch screen
 - Flush mount construction with 2" perimeter wall flange and rear discharge fitting
 - 4-20mA Level transmitter for installation in the storage tank
 - Leak sensor floatswitch for installation in the storage tank's interstitial space
 - Level display reading in Percent and Gallons
 - High visibility notification on HMI: 90% level
 - High visibility red alarm banner on HMI: 95% level
 - 90 dB audible alarm horn activated at 90%, 95%, and on storage tank leak
 - Control power ON/OFF switch
 - Fill Start/Stop controlled via HMI
 - Automatic 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



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- Fill valve disarm/closed
 - Fill valve open
 - Tank leak
 - Control power fuses
 - Remote alarm contacts:
 - Tank High
 - Leak
 - tank Full
 - Modbus via 485
- 1.6 The COMPACT 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 COMPACT AUTOMATIC FUELPORT
- 1.8 System shall be a Simplex COMPACT AUTOMATIC FUELPORT, Model "CAFP" as described above. To be supplied by Simplex, Inc, 5300 Rising Moon Rd., Springfield, IL 62711. 217-483-1600.