

## COMPACT AUTOMATIC FUELPORT Sample Specification

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

### 1.0 Fuel Filling System

- 1.1 Provided for (wall-mount or freestanding) installation at delivery truck curbside, a Simplex Compact Automatic Fuelport grade level fill box with spill containment, overfill prevention and automatic fill shutoff in the filling of an above ground storage tank.
- 1.2 The Fuelport shall be installed outdoors as specified. (Example: Upon a concrete pad using the optional 3" post assembly with clamps, bolted to the side of the storage tank or hung from the fill pipe)
- 1.3 The Compact Automatic Fuelport shall include the following fittings and features:
- Steel, weatherproof, lockable box with hinged door finished in powder coat.
  - Tank mounting weld brackets (2)
  - Integral mounting tabs to accept weld brackets (above) or post clamps (3" optional)
  - External, stainless steel ground stud for attachment of delivery truck ground cable.
  - Quick detachable coupling for attachment of delivery hose (Specify 2", 3" or 4")
  - Inlet angle check valve
  - Inlet motorized ball valve for closure on storage tank high level and leak conditions
  - 7 gallon spill containment sump with drain hand pump. To remove spill contents to AST via fill pipe. Includes check valve and shutoff valve.
  - Threaded outlet fitting for attachment of fill pipe to AST.
- 1.4 3" post assembly includes mounting base, 48" length of schedule 40, 3" NPT pipe and 3" post clamps all painted powder coat white. (Specify option FSOP-085)
- 1.5 The Fuelport shall include a control system with tank gauging, alarm, overfill alarm and automatic shutoff system as described below. The system requires an external source of AC power, 115v, 1-ph, 15-amp circuit.
- 1.6 An electronic tank monitor and fill control system shall be provided and shall include:
- UL508A TYPE 3R rainproof, lockable enclosure with hinged door
  - 4-20mA Level transmitter for installation in the storage tank
  - Leak sensor float switch for installation in the storage tank's interstitial space (option FSOP-051)
  - Digital level gauge, reading in percent level
  - 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 restriction at 90% level
  - Automatic valve closure at 95% level
  - Leak sensor alarm circuit input which activates automatic valve closure
  - Indicators for:
    - Power available
    - Fill valve disarm
    - Fill valve open
    - Tank leak



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- Remote alarm contacts:
  - Full
  - High
  - Leak
- 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 CAFP COMPACT AUTOMATIC FUELPORT as described above. Model "CAFP" with optional post assembly if needed. To be supplied by Simplex, Inc, 5300 Rising Moon Road., Springfield, IL 62711. 217-483-1600.