

Dispenser

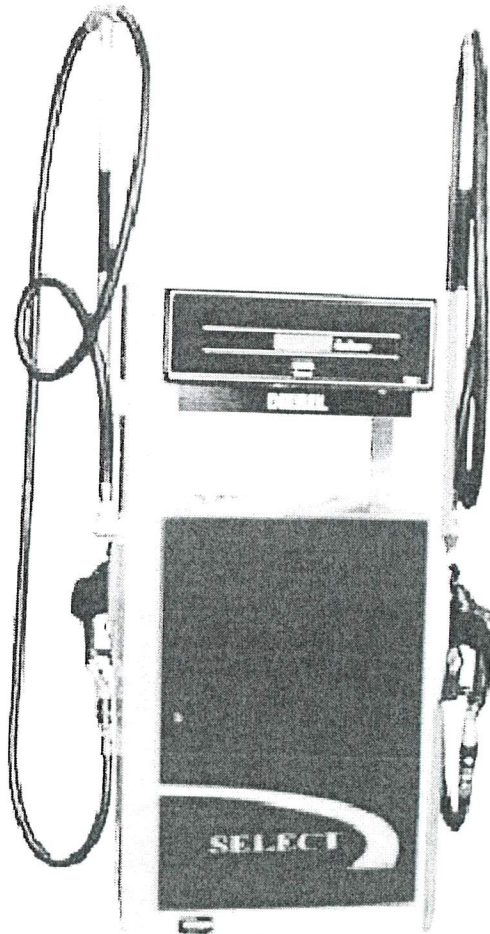
Wayne
FUELING SYSTEMS

Installation / Operation

Select™ 3/G7200 Fleet Dispensers

E3/G7203D/28/GHJX/JS3

000-920812-
Rev P



DOVER
FUELING SOLUTIONS

2.3 Ethanol and Bio-Diesel Installations

All Wayne dispensers are rated and Listed for use with Ethanol blends up to and including E10. For blends that exceed E10, the dispenser must be supplied with a first suffix option of "9" for blends up to E25 and B20 or an "E" prefix option for blends up to E85. "E" prefix dispensers are Listed for use up to and including E85 blends. The "9" suffix is available for all enhanced capacity remote dispensers. The "E" prefix is only available on remote dispenser models 3/G7201D, 3/G7202D, and 3/G7203D. When considering an installation, all fluid handling components must be rated for the type of fuel that will be dispensed. Piping connections for above E10 must use UL Classified Saf-T-Lok Teflon pipe sealant.



WARNING

Some alternative fuels and additives can degrade the dispenser performance and integrity if the dispenser is not designed for that product. In addition, converting between fuel types (especially between an alternative fuel to a standard fuel) can degrade the dispenser performance and integrity. Before changing fuel types, always make sure that the dispenser is designed for use with the new product. In addition, the dispenser should be closely monitored for any sign of degradation or leaks after the conversion. This monitoring should take place in the days, weeks and even a month after the conversion takes place. Leaks can result related to the conversion which can create an environmental hazard.

2.4 Existing Installations

- If the dispenser is to be installed on an existing installation, it is still the responsibility of the installer to read and follow this installation manual in its entirety and make sure the existing installation meets the requirements and satisfies local, state, and federal codes.

2.5 Island Construction, Dispenser Anchoring, and Piping

- A concrete foundation must be provided for the dispenser. Do not pour concrete around product lines or electrical conduit risers. Allow for the proper dispenser containment box if required by local, state, or federal regulations. Reference Appendix A, Dimensions & Base Layouts, for dispenser dimensions.
- Anchor bolts pre-set in the concrete, or concrete anchors driven into the concrete, must be used to securely bolt the dispenser to the island in accordance with NFPA requirements. The base of the dispenser contains two bolt holes for anchoring the dispenser to the island. If anchor bolts are used, position the anchor bolts in accordance with the dimensions given on the appropriate Dimensions & Base Layout drawing in Appendix A. Use ½" diameter bolts.
- Vertical supply risers and electrical conduits must be located per the Installation Drawing for the appropriate model. Proper height must be maintained to avoid undue stress on the dispenser. See Section 3.3 for wiring and conduit requirements. Reference Appendix B for Wiring Diagrams.
- Supply piping should be selected and installed based on the product dispensed and in accordance with local, state, and federal regulations. The piping manufacturer's instructions should be followed for the proper trenching, connection, sealing, corrosion prevention, pressure relief, leak detection, containment, and testing.
- Supply lines should extend a minimum of 18" (46cm) straight down from the dispenser (more in hot climates and high altitudes to prevent product vaporization) and then slope downwards to the tank at approximately ¼" per foot (1cm drop per 48cm run). Be sure there are no traps and minimize the number of bends and elbows.
- Enhanced Capacity models: If the distance from the dispenser to the tank is 60 feet (18.2m) or less, 1½-inch (3.8cm) schedule 40 pipe may be used. For distances greater than 60 feet (18.2m), 2-inch (5.1cm) schedule 40 pipe is recommended to lessen friction.

Liquid Crystal Displays:	Backlit 1" (2.5 cm) six-digit Volume and Total \$ displays (Total \$ for /1 option) and ½" (1.3 cm) four-character status display per hose (Price for /1 option). Displays each side of cabinet, except models with lane-oriented nozzle boots only display on corresponding nozzle boot side. Configurable 0-4 digits to right of decimal. Programmable gallons or liters. In event of power loss, remain visible for approximately 15 minutes.
Totalizers:	7-digit electromechanical non-resettable totalizer per product. One non-resettable and one resettable electronic 6-digit totalizer per hose. Electronic totalizers display on volume display by using infrared remote control.
Light:	Light in electronic head provides backlighting for liquid crystal displays and illuminates product identification panels. 120VAC 60 HZ operation. Optional 240VAC 50/60 Hz operation.
Fuel Control System Interfaces:	Wayne dispenser US Current Loop protocol. Optional pulse output interface.
Meter:	Enhanced Capacity and Super High Capacity Models: Wayne 2-piston, positive displacement iMeter with integral intelligent pulser. E85 models utilize Xflo meter. Electronic calibration. Ultra High Capacity Models: Liquid Controls M-5 positive displacement rotary meter with Wayne optical pulser. Electronic calibration.
Pumping Unit:	Suction pump models. Wayne Compact Pumping Unit (CPU). Belt-driven, positive displacement rotary gear pump with integral centrifugal air separator. Not available on UHC or E85 models.
Motor:	Suction pump models. 1 HP, continuous duty motor. 120/240VAC, 50/60 Hz, with thermal overload. Adjustable V-link belt connects to the pump pulley.
Junction Boxes:	Explosion-proof AC junction box standard for electronic head, light, suction pump, and submersible connections. Additional explosion-proof junction box supplied with pulse output interface option for third party control system wire terminations.
Strainer:	Enhanced Capacity and Super High Capacity Models: 120-mesh; removable for cleaning. Ultra High Capacity Models: No strainer is provided. See filter section. Disposable strainer canisters are available as an option replacing filters.
Filter:	Enhanced Capacity and Super High Capacity Models: Internal filter adapter with 30-micron particulate filter element (remote dispenser models only). Ultra High Capacity Models: Two internal Cimtek Series 800 filters (40 GPM each) per hose with 30-micron particulate filter elements. (Note: User should make sure the filter element meets the application and replace with the appropriate element as necessary.)
Flow Control Valve:	Enhanced Capacity and Super High Capacity Models: Proportional 7/8" (2.2cm) 24V valve. Standard on remote dispensers, Twin I suction model, and suction models w/ price display (/1) option. Optional on other suction models. Ultra High Capacity Models "/W3": 120 VAC 2-stage 1-1/2" (3.81cm). UHC units w/o "/W3" use 24 VDC proportional valves.
Inlet:	Enhanced Capacity Models: 1 ½" (3.8cm) male NPT. Super High Capacity Models: 1 ½" (3.8cm) male or 2" female (5.1cm) NPT. Ultra High Capacity Models: 2" (5.1cm) male NPT. Satellite Models: 1 ½" (3.8cm) male NPT
Outlet:	Enhanced Capacity and Super High Capacity Models (including Satellite SHC Models): 1" (2.5cm) female NPT. ¾" (1.9cm) reducing bushing supplied for ¾" hose assemblies on non-SHC models. Outlet for satellite on Master configurations is 1-1/2" NPT. Ultra High Capacity Models (including UHC Satellite Models): 1-1/4" (3.2cm) female NPT. 1" (2.5cm) reducing bushing supplied for 1" hose assemblies. Outlet for satellite on Master configurations is 1-1/2" NPT.
Cabinet:	Galvanealed metal. Hinged front and rear doors. Optional SS on most models.
Finish:	Silver powder coat finish with blue powder coated doors. Optional black, green, red, silver, white, or yellow powder coated doors.