

SEMLER INDUSTRIES

FUEL PORT | IN-WALL

Installation, Operating, & Maintenance Manual

3800 Carnation Street | Franklin Park, IL 60131
(847) 671-5650 | Semler@semlerindustries.com
www.semlerindustries.com

IMPORTANT INFORMATION – FOLLOW ALL INSTRUCTIONS



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1.0 Warnings & Safety Information



- FAILURE TO ADHERE TO ANY WARNINGS OR INSTRUCTIONS IN THIS DOCUMENT MAY LEAD TO A HAZARDOUS LIQUID SPILL, POTENTIALLY CAUSING PROPERTY DAMAGE, ENVIRONMENTAL CONTAMINATION, FIRE, EXPLOSION, SEVERE INJURY, OR DEATH.



- THIS SYSTEM IS NOT INTENDED FOR USE WITH GASOLINE OR OTHER FLAMMABLE LIQUIDS WITH A FLASH POINT BELOW 100°F (37.8°C). USE WITH SUCH FLAMMABLE SUBSTANCES POSES AN IMMEDIATE RISK OF EXPLOSION AND FIRE.



- ONLY QUALIFIED, EXPERIENCED PERSONNEL KNOWLEDGEABLE IN THIS TYPE OF EQUIPMENT SHOULD INSTALL, OPERATE, AND MAINTAIN THIS SYSTEM.



- INSTALLATION MUST COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.



- FOR SAFETY, ADHERE TO ALL RELEVANT LOCAL, STATE, FEDERAL, AND OSHA GUIDELINES WHEN WORKING IN, AROUND, OR ABOVE THE STORAGE TANK AND PIPING AREA. USE REQUIRED PERSONAL PROTECTIVE EQUIPMENT FOR THE SPECIFIC WORK ENVIRONMENT.



- STORAGE TANKS MAY BE UNDER PRESSURE, AND VAPORS CAN BE EXPELLED FROM TANK VENTS, PIPING, VALVES, OR FITTINGS DURING INSTALLATION. THESE VAPORS ARE FLAMMABLE AND CAN CAUSE FIRES OR EXPLOSIONS. AVOID SPARKS, OPEN FLAME, OR HOT SURFACES WHEN WORKING ON THE DEVICE.

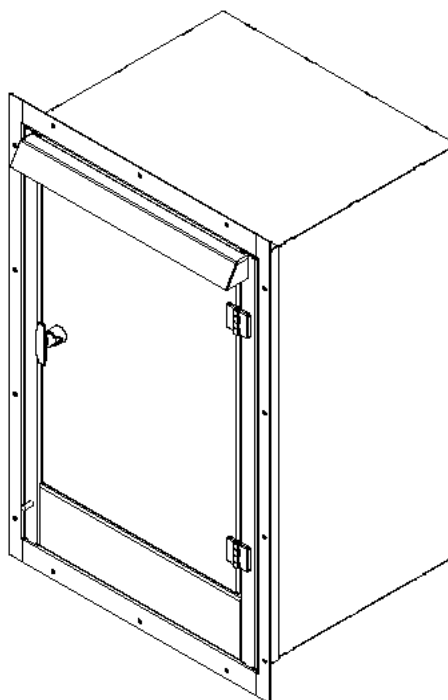
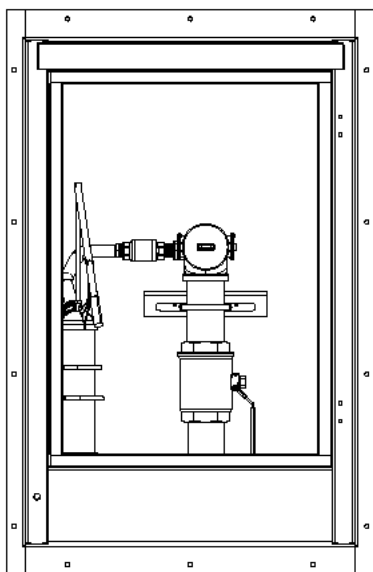


2.0 Overview

The fuel port is intended to serve as both a spill containment device and a filling port for aboveground storage tanks.

FEATURES

- Inlet isolation ball valve
- Check valve (Optional)
- Weather-resistant, stainless-steel enclosure
- Gasketed and pad lockable door
- 6.6-Gallon (25 Liters) spill containment
- Spill containment drain plug
- Hand pump
- Grounding stud
- Universal cam and groove connections





3.0 Specifications

3.1 SYSTEM

Model Code:	FSPG-FP-0002
Accessory Code:	Spill Containment Device
Design Pressure:	50PSI
Compatible Fuels:	Class II > 100°F Flash Point
Spill Capacity:	6.6GAL [25L]
Enclosure Rating:	Weather-resistant
Mounting Style:	In-Wall

3.2 CONNECTIONS

Process Outlet Port:	2" FNPT
Fill Connection:	Cam & Groove

3.3 CONSTRUCTION

Material:	Stainless Steel
Weight:	137Lb [62.1Kg]
Shipping Weight:	170Lb [77Kg]
Dimensions: H x W x D [in]	37.16 x 24.00 x 20.50

3.4 APPROVALS

Underwriters Laboratories	(UL/ULC)
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4.0 Storage & Transit / Receiving

4.1 Storage and Transit

The device should only be stored in a dry area. It is not intended for storage at excessive temperatures. The device shall only be transported on a rigid structure base with strapping hardware as rough handling (drops, impacts, crushing, dragging, etc.) during transit may cause damage or malfunction during use. There shall be no double stacking of the device during transport or storage.

4.2 Receiving

Before installation, carefully inspect the system and accessories for any physical damage. Improper handling during shipping may cause physical damage. Document any damages and contact Semler Industries customer support. Any unit that is damaged in a way that prevents proper installation or compromises its ability to contain fluid should not be used.



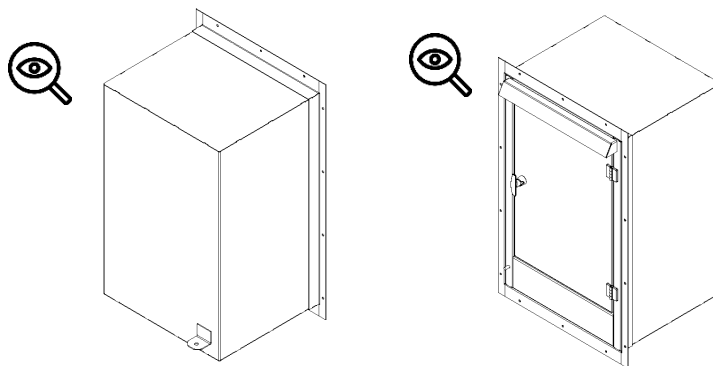
AVOID THE USE OF A UTILITY KNIFE OR SIMILAR SHARP OBJECT WHEN UNBOXING AS IT MAY LEAD TO DAMAGE OF DEVICE.



TEAM LIFT – TEAM LIFTING REQUIRED (OVER 50 LBS)

Pre-installation Checklist:

- 4.1 Check for signs of damage
- 4.2 Check locking handles, door, and hinge operation
- 4.3 Ensure all plumbing connections are tight





5.0 Installation



DEVICE MUST BE PROPERLY BONDED AND GROUNDED.

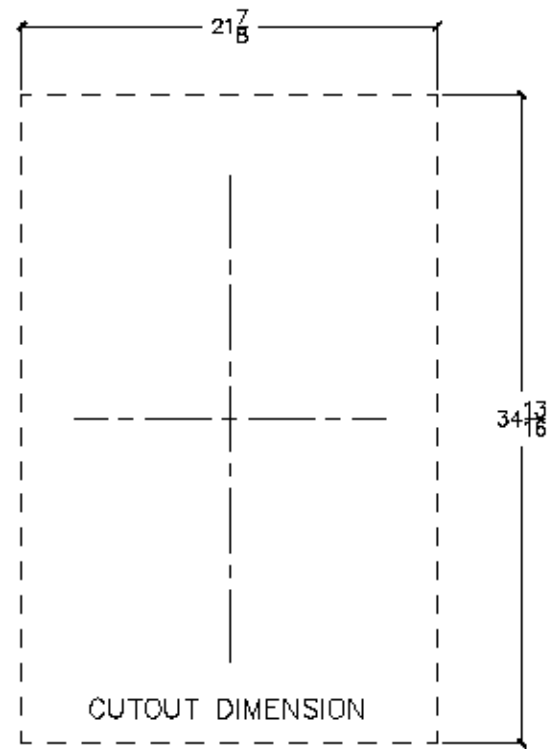
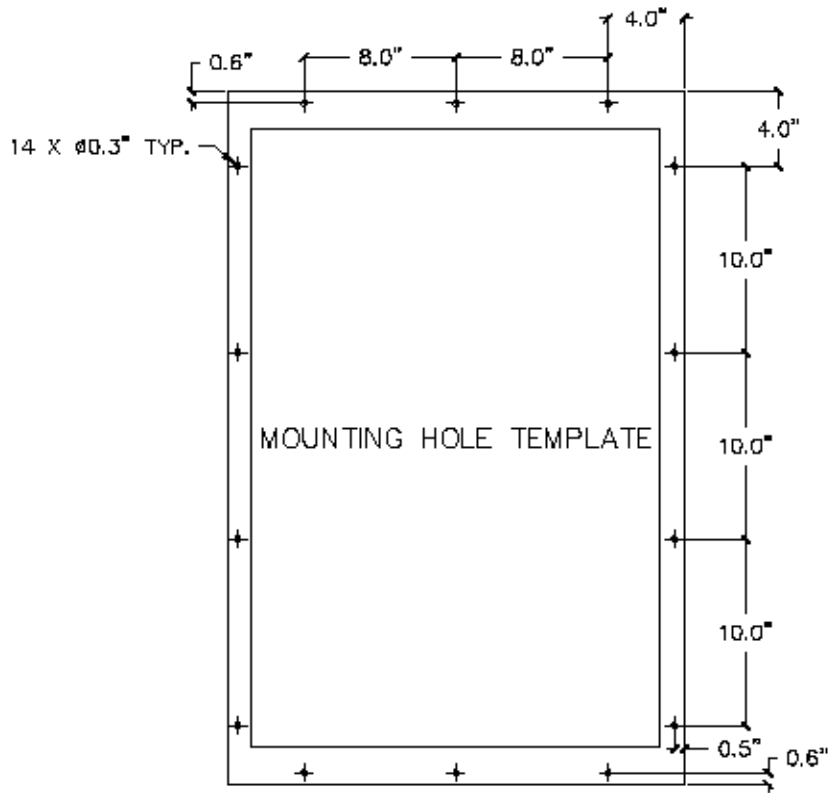


PROPER SAFETY CONTROL EQUIPMENT (PRESSURE RELIEF VALVE, FIRE VALVE, VENTING, ANTI-SIPHON, ETC.) SHALL BE INSTALLED TO MEET LOCAL, STATE, AND FEDERAL REGULATIONS.

When using the pump for the first time, it may be necessary to prime it by putting some of the liquid into the discharge spout.

5.1 Mounting

- 5.1.1 Enclosure shall be mounted permanently on a hard level surface.
- 5.1.2 Mounting surface shall be substantial enough to support the weight of the fuel port.
- 5.1.3 Ensure mounting location is deep enough for enclosure and to allow for outlet connection.
- 5.1.4 Locate away from traffic and at an appropriate height to receive delivery.
- 5.1.5 Select mounting hardware suitable for mounting the system in the desired location.
- 5.1.6 Installing Unit: (ensure unit is plumb to facilitate proper pipe connections)
 - a. Create a cutout template to ensure a level opening in the wall.
 - b. Cut out cabinet box dimensional hole in the wall using the proper tools.
 - c. Two people lift the cabinet into the hole. It might be necessary to tilt the unit at an angle to clear the outlet port at the bottom.
- 5.1.7 Check Valve Installation:
 - a. The check valve is field installed after the outlet of the cabinet.
 - b. Use a non-hardening, fuel compatible thread sealant to install the check valve. If the supplied check valve is swing type and needs to be mounted vertically the flow direction must point upward only.
- 5.1.8 Grounding - this unit must be connected to a common earth electrical ground.





5.2 Plumbing

- 5.1.1 Use proper quality approved fuel line materials with similar inner diameter (ID) to the outlet of the system.
- 5.1.2 Use a fuel compatible, non-hardening thread sealant on all the thread pipe connections on the unit.
- 5.1.3 Attach the desired pipe, or pipe fitting, to the connection on the unit.
- 5.1.4 Pipes should be independently supported such that the fill port does not support the weight of the pipe.
- 5.1.5 It is highly recommended to install pressure relief valves between the fill port and the storage tank to prevent thermal expansion issues within enclosed sections of plumbing.



PRIOR TO FINAL INSPECTION AND PLACING THE SYSTEM IN SERVICE, IT IS THE RESPONSIBILITY OF THE INSTALLER TO PRESSURE TEST THE ENTIRE PIPING SYSTEM, INCLUDING THE PIPING IN THIS UNIT, TO ENSURE THE INTEGRITY OF THE PIPING, VALVES, AND FITTINGS. TESTING PARAMETERS LISTING IN NFPA 30 OR PEI RP200 SHOULD BE FOLLOWED AND PERFORMED BY SOMEONE FAMILIAR WITH THESE SYSTEMS.



6.0 Operating Instructions

- 6.1 Connect truck ground cable to grounding stud on fuel port.
- 6.2 Verify the liquid level to confirm the tank can accept the delivery load. Ensure the delivered product matches the product in the tank.
- 6.3 Unlock remote fuel port and open door.
- 6.4 Remove Dust Cap from the fill coupler.
- 6.5 Connect delivery hose to fill coupling.
- 6.6 Open valve inside the fuel port.
- 6.7 Open valve on the fuel delivery truck.
- 6.8 Start the delivery pump.
- 6.9 Stop the delivery pump when the tank has reached the predetermined fill level.
- 6.10 Close valve on the fuel delivery truck.
- 6.11 Close valve inside the fuel port.
- 6.12 Disconnect the delivery hose from inside the fuel port.
- 6.13 Remove any spilled liquid by using the hand pump and/or cleaning up with absorbent pads.
- 6.14 Re-attach the dust cap to the fill coupler.
- 6.15 Close and lock the door.
- 6.16 Disconnect the truck ground cable.



7.0 Maintenance

Preventive maintenance requires visual inspection of the fuel port on a monthly basis. Monthly inspections are highly recommended on systems that are used more than five or more days per week.

7.1 After Each Use:

- 7.1.1 Use the hand pump to remove excess liquid in the enclosure
- 7.1.2 Clean and remove any dirt, debris, spilled product

7.2 Monthly:

- 7.2.1 Remove any liquid in the enclosure
- 7.2.2 Clean enclosure and all parts for corrosion and rust
- 7.2.3 Check door handle for proper operation and tighten hardware if necessary
- 7.2.4 Check hinge hardware for proper operation and tighten locknuts if necessary
- 7.2.5 Check unit mounting hardware and tighten if necessary
- 7.2.6 Check all plumbing joints for leaks, tighten fittings and joints as needed

Any hardware that is defective or no longer in operable condition must be replaced



**PROPERLY DISPOSE OF ALL HAZARDOUS MATERIALS
ACCORDING TO LOCAL, STATE, AND FEDERAL
REGULATIONS.**



8.0 Parts List

Component:

Hand Pump
Hand Pump Connection Hose
Check Valve – Hand Pump Line
2" Ball Valve
2" Dust Cap
2" Cam Adapter
Door Handle
Door Gasket
Door Hinge

Part Number:

PSHP-0006
HTBH-0009
SCCV-0005
SCVL-BL-S-2FN-0000
HPCG-0058
HPCG-0000
FSSC-0257
SCOE-0361
SCOE-0358

9.0 Troubleshooting

9.1 No Fluid Delivery

- 9.1.1 Fluid supply is blocked
- 9.1.2 Ball valve is closed
- 9.1.3 Tank overfill protective device actuated/active
- 9.1.4 Check valve installed backwards

9.2 Insufficient Fluid Delivered

- 9.2.1 Defective check valve
- 9.2.2 Fluid delivery line undersized

10.0 Terms & Conditions / Warranty

Please call or visit our website at www.SemlerIndustries.com for all terms and warranty information.

