



INLET CONTROL VALVE

99ICV Series

INSTALLATION INSTRUCTIONS

11/04

69482 Rev. B

SAVE THESE INSTRUCTIONS

CAUTION:

The vessel manufacturer must comply with the requirements of CFR 40 1060.202. Any questions can be directed to www.attwoodmarine.com

Failure to follow these instructions may result in accidental fuel system over-pressurization. Users must follow these instructions to ensure vessel function and operation

EMISSION-RELATED INSTALLATION INSTRUCTIONS

Failing to follow these instructions when installing the Attwood Inlet Control Valves in a piece of nonroad equipment violates federal law (40 CFR 1068.105(b)), subject to fines or other penalties as described in the Clean Air Act.

FEATURES:

Attwood's Inlet Control Valve allows proper fuel flow into the fuel tank during refueling. As the fuel tank reaches full liquid capacity, the Inlet Control Valve works in conjunction with the Fill Limit Vent Valve to ensure no spitback/wellback and automatic nozzle shutoff. The Inlet Control Valve also prevents fuel from draining into fill hose/deckfill area during vessel operation and trailering. The Inlet Control Valve includes features to allow vapor and liquid to pass the valve in order to ensure the system does not become accidentally over pressurized.

REQUIRED FOR INSTALLATION

- 1-1/2" (38mm) I.D. Fill Hose
- (4) Hose Clamps, 1-1/2" (38mm), trade size 028, 300-grade all-stainless (both band and screw)
- 5/16" (8mm) Nut Driver or Medium Flathead Screwdriver for hose clamp installation
- Torque Monitoring Device to ensure proper torque level for all fasteners

INSTALLATION INSTRUCTIONS

1. Ensure that the 1-1/2" (38mm) hose has a clean, perpendicular cut before Inlet Control Valve installation. Loosely install two (2) all-stainless, 1-1/2" (38mm) wide, trade size 028 hose clamps over hose. (Figure 1)
2. Install Inlet Control Valve with "FLOW" and arrow pointing towards the Fuel Tank and "TOP" identification facing up in horizontal or angled applications. This orientation is not required in complete vertical applications. Ensure that the hose is fully inserted, bottoming the end on the chamfer of the Inlet Control Valve.
3. Place and fasten hose clamp 1/4" (6mm) from hose end. Fasten to 36 +/- 4 in-lbs. Do not overtorque.
4. Place and fasten hose clamp adjacent to first hose clamp. Fasten to 36 +/- 4 in-lbs. Do not overtorque.
5. Inspect second hose to install onto inlet side of Inlet Control Valve, ensuring a clean, perpendicular cut. Loosely install two (2) hose clamps over hose and install hose onto Inlet Control Valve, bottoming the end of hose at the base of the Inlet Control Valve inlet.
6. Place and fasten hose clamp 1/4" (6mm) from hose end. Fasten to 36 +/- 4 in-lbs. Do not overtorque.
7. Place and fasten hose clamp adjacent to first hose clamp. Fasten to 36 +/- 4 in-lbs. Do not overtorque.
8. If the Inlet Control Valve is installed in the engine compartment, a heat shield (99ICV000HS1) is required. Please reference separate instruction sheet for heat shield installation.

NOTES:

- Trade Size 028 (1-1/4" min., 2-1/4" max. dia.), 1-1/2" (38mm) wide
- 1/2" (13mm) stainless steel band, housing and 5/16" (8mm) hex screw
- Inspect screw torque annually
- Do not step on Valves
- 1/2" (13mm) Clearance required around component
- Not intended for siphoning through Inlet Control Valve under any circumstances

LOCATION

- Install anywhere between the Deck Fill and tank. A minimum of 6" (15.2cm) is required between the Deck Fill and Inlet Control Valve.
- Must be installed in a readily accessible location
- Fill hose must be self draining between Deck Fill and Inlet Control Valve for all expected boat conditions.
- Fill hose must be self draining between Inlet Control Valve and tank for all expected boat condition.

Important safety instructions (for all Attwood 99FL/99GV/99CC/99ICV/99DF components):

When a fuel system is configured with Attwood 99FL and/or 99GV Series Vent Valves, the following safety precautions must be taken;

1. Use only an Attwood 99ICV series Inlet Control Valve in-line with the Fuel Fill Hose. No other fill hose valves should be installed in order to ensure the safety of the fuel system and vessel. The Attwood 99ICV series inlet control valves include features to allow vapor and liquid fuel to pass the valve in order to ensure the inlet valve does not create an accidentally sealed fuel tank/system.
2. Use only an Attwood 99DF series Deckfill. The Attwood 99DF series Deckfill includes overpressure relief safety valves that allow unintended pressure to be released in the event that the tank becomes accidentally overfilled and/or over pressurized.

MANUFACTURER REQUIREMENTS

The information below applies only to EPA CFR 40 1060.135. The vessel manufacturer is responsible to meet all additional regulatory labeling requirements including EPA, CARB, USCG and others as necessary. The below information is for reference only. The vessel manufacturer should refer to CFR 40 for complete labeling guidelines.

In order to meet the requirements of CFR 40 1060.135, the vessel must be labeled with respect to evaporative emissions in the following manner when installing certified components;

Excerpt from CFR 40 1060.135

(a) You must affix a permanent and legible label identifying each engine or piece of equipment before introducing it into U.S. commerce. The label must be—

- (1) Attached in one piece so it is not removable without being destroyed or defaced.
- (2) Secured to a part of the engine or equipment needed for normal operation and not normally requiring replacement.
- (3) Durable and readable for the equipment's entire life.
- (4) Written in English.
- (5) Readily visible in the final installation. It may be under a hinged door or other readily opened cover. It may not be hidden by any cover attached with screws or any similar designs. Labels on marine vessels must be visible from the helm.

(c) If you produce equipment without certifying with respect to evaporative emissions, the equipment label specified in paragraph (a) of this section must—

- (1) State: "MEETS U.S. EPA EVAP STANDARDS USING CERTIFIED COMPONENTS."
- (2) Include your corporate name.

Below is an example of a label specified by CFR40 1060.135 for use with certified components;

MEETS U.S. EPA EVAP STANDARDS USING CERTIFIED COMPONENTS

CORPORATE NAME

Please refer to CFR 40 1060.135 to review EPA vessel labeling requirements.

The NMMA has a program to supply OEM builders with labels. Please refer to the NMMA website below for further information regarding the NMMA label program;

www.nmma.org/certification/products/labelsanddecals.aspx

TWO-YEAR WARRANTY & LIABILITY

Generally: Attwood Inlet Control Valves are covered by a two (2) year limited warranty from the date of a Vessel's first retail sale.

Pre-requisites to Warranty Eligibility: For the warranty coverage described herein to apply, the following conditions must be met:

- Component must have been properly installed per Attwood installation instructions; and
- The component cannot have been altered or abused by Boat Company or its customers.

Warranty Terms for Components:

Attwood warrants that any Attwood Inlet Control Valves are free from defects in materials and workmanship and are designed, built, and equipped to conform at the time of sale to Boat Company with the 40CFR.1060 requirements. For two (2) years from the date of a Program Boat's first retail sale, Attwood will, at its sole option, repair or replace any components that fail due to a defect in material or workmanship. ATTWOOD PROVIDES NO WARRANTIES WITH RESPECT TO ANY PART OR COMPONENT NOT MANUFACTURED BY ATTWOOD, INCLUDING FUEL TANKS. Boat Company is responsible for the installation of all Systems, whether installed by Boat Company or under its direction.

A.B.Y.C.

American Boat & Yacht Council
3069 Solomon's Island Road
Edgewater, Maryland 21037
www.abycinc.org

E.P.A.

401 "M" Street, SW
Washington, DC 20593 www.epa.gov

National Marine Manufacturers Association (NMMA)

231 S. LaSalle Street
Suite 2050
Chicago, IL 60604
www.NMMA.org

U.S. Coast Guard

Washington, DC 20460
www.uscgboating.org

ISO

iso.org

FIGURE 1

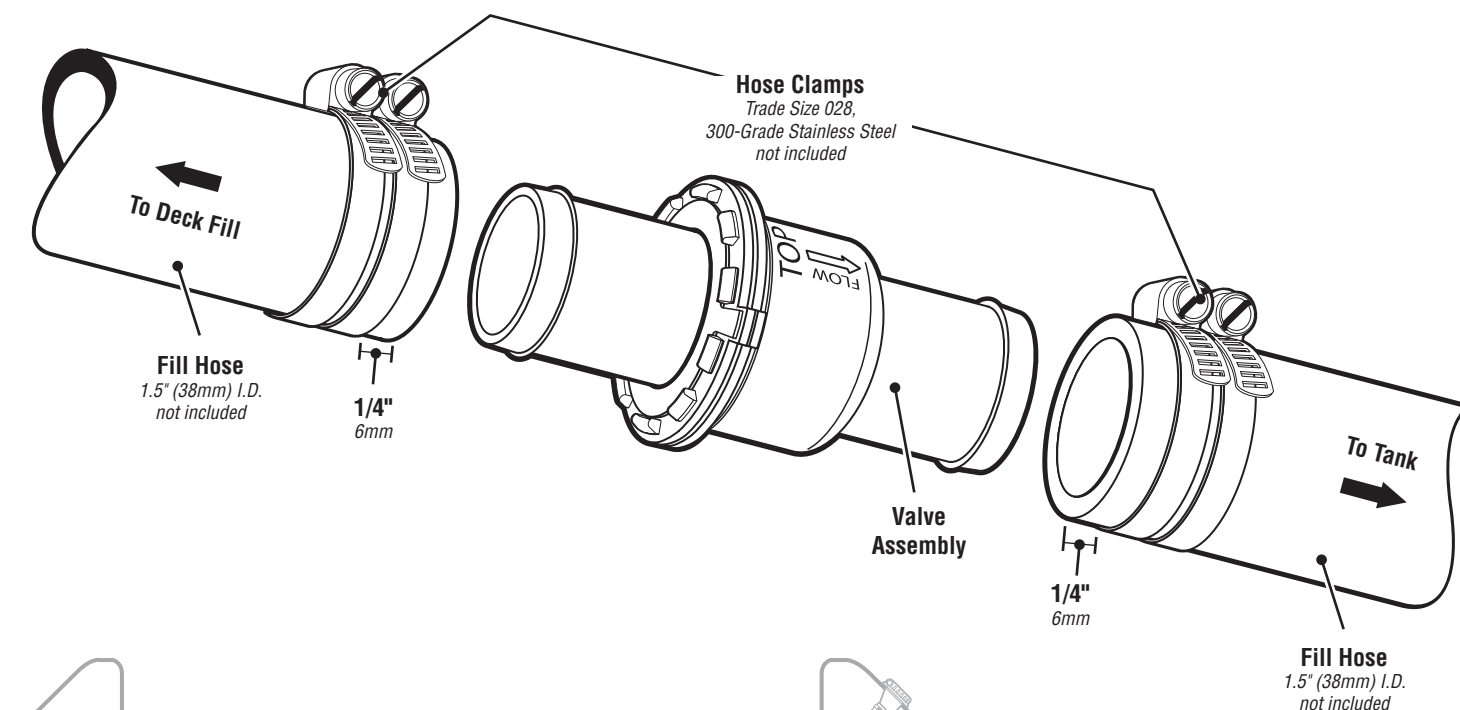
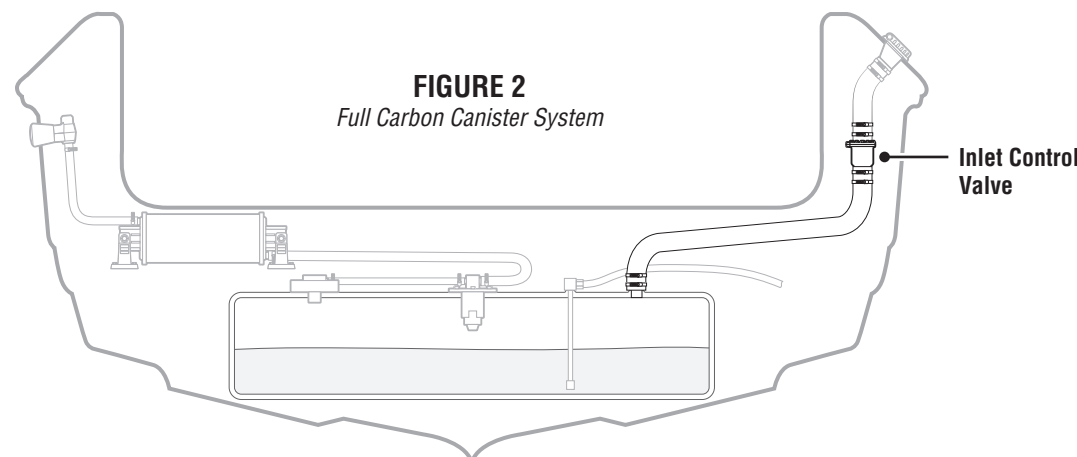


FIGURE 2 Full Carbon Canister System



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