



Fuel Surge Protector 1675 (In-Line)

Attwood marine hardware, navigational lighting, bilge pumps, and other marine accessories are specified more than any other brand by America's best-known boat manufacturers as original equipment. Look to Attwood for quality replacement parts and marine accessories.

SAVE THESE INSTRUCTIONS

Form Number 69291 Rev. B

03-10

Application

Designed to work on traditional tank vent systems with standard $\frac{5}{8}$ " (16mm) I.D. vent hose, the In-Line Fuel Surge Protector installs:

- Directly into the vent hose above the top of the gas tank and 10" to 12" (254mm to 305mm) below the external vent.
- At a position within 45° of vertical so that the arrow with the word VENT points upward toward the boat's exterior vent.

CAUTION!

Surge Protector does not prevent water intake. Install Surge Protector below an Attwood baffled P-Trap as a splash-resistant vent outlet.

FEATURES

Even minor fuel spills can accumulate to be a serious environmental problem. The Vent Line Surge Protector helps you protect the environment by reducing spills through the vent line on built-in fuel tanks.

The Surge Protector easily attaches in-line to a standard $\frac{5}{8}$ " (16mm) vent hose from the tank. The internal ball restricts flow out the vent line when it senses a fuel surge from boat motion or refilling. This prevents fuel from spilling through the vent.

INSTALLATION INSTRUCTIONS

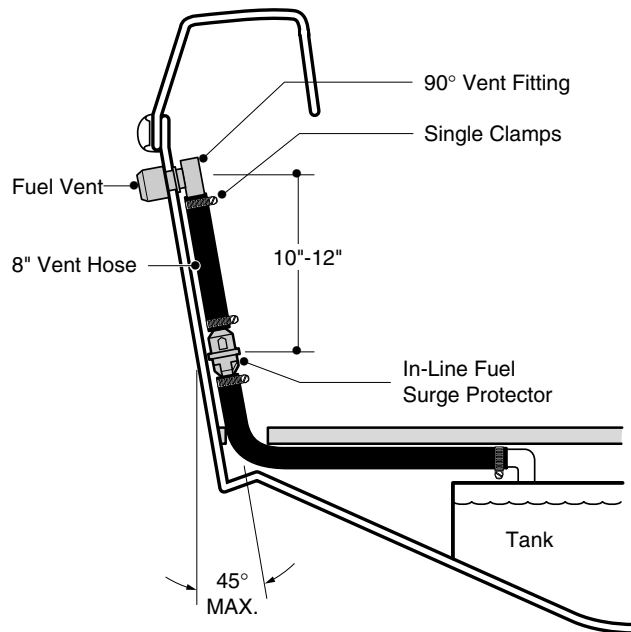
1. If this is a new vent line installation, Attwood strongly recommends installing a baffled vent trap that will restrict entry of splashed water *into the vent line*. The Attwood P-Trap vents are good for this purpose.

If not installing a P-Trap, a hose loop *above* the vent is necessary to trap incoming water and return it through the vent.
2. Select an installation location that meets these criteria:
 - Vent hose is $\frac{5}{8}$ " (16mm) internal diameter, or is adapted to that size
 - Surge Protector is installed where it won't be stepped on or bumped
 - Center of Surge Protector is 10" to 12" (254mm to 305mm) below exterior vent
 - Arrows and word "VENT" on the Surge Protector point up
 - Surge Protector is installed vertically or at an angle no greater than 45°
3. Select a point in the vent hose 10" to 12" (254mm to 305mm) below centerline of the vent. Remove a 2½" (64mm) section of the hose.
4. Slide hose clamps over each end of the hose. For a problem-free installation, use worm-drive 100% stainless steel clamps.
5. Hold the Surge Protector so arrows point up and the word "VENT" points toward the boat's exterior vent. Slide vent line hoses fully onto the Surge Protector. Secure hoses with clamps, but don't overtighten.
6. Pressure test the fuel system to make certain there are no leaks.

CARE AND MAINTENANCE

The Surge Protector is sealed to prevent contamination and can't be disassembled. No normal maintenance is required.

If the ball inside doesn't rattle when shaken, or the Surge Protector doesn't work as intended, replace the Surge Protector.



Standards, Codes, Certifications:

Meets ABYC H-24.

Fuel tank installations must comply with ABYC, Federal or Local requirements/laws for safety and to prevent spillage. All fuel systems should be designed to prevent accidental spills and damage to the environment. Check with NMMA or Attwood for details.

The Federal Pollution Control Act prohibits the discharge of oil or oily waste into or upon navigable waters of the United States or the contiguous zone if such discharge causes a film or sheen upon or discoloration of the surface of the water. Violators are subject to a penalty of \$5,000.

ATTWOOD LIMITED WARRANTY

Attwood Corporation, 1016 North Monroe, Lowell, Michigan 49331 ("Attwood") warrants to the original consumer purchaser that Attwood brand products will be free from defects in materials and workmanship under normal use and service for one year from the date of original consumer purchases.

This limited warranty is not applicable if the product has been damaged by accident, improper installation, unreasonable or improper use, lack of proper maintenance, unauthorized repairs or modifications, normal wear and tear, or other causes not arising out of defects in materials or workmanship.

Attwood products are warranted for use on pleasure boats. Any other use—including but not limited to commercial, racing, or non-marine use—are not covered under this warranty. Attwood's obligation under this warranty is limited to repair of the product at Attwood's plant or replacement of the products at Attwood's option without expense to the original consumer purchaser. Any expenses involved in the removal, reinstallation or transportation of the product are not covered by this warranty. The product must be returned to Attwood's plant at the address above, postage pre-paid, and insured with proof of original purchase including date. If Attwood is unable to replace the product and repair is not commercially practical or cannot be timely made, or if the original consumer purchaser is willing to accept a refund in lieu of repair or replacement, Attwood may refund the purchase price, less an amount for depreciation. The acceptance by Attwood of any product returned or any refund provided by Attwood shall not be deemed an admission that the product is defective or in violation of any warranty. Products that are replaced or for which a refund is issued become the property of Attwood.

This warranty is Attwood's only expressed warranty of these products. No implied warranty including, without limitation, the implied warranties of merchantability and fitness for a particular purpose, shall be extended beyond the warranty period stated above for each product. Attwood shall not be liable for any damages, for loss of use of this product, nor for any other incidental or consequential damages, costs, or expenses.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations and exclusions may not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.