



# WATER-RESISTANT, 90° FUEL TANK VENT

## 1674 / 1684

INSTALLATION INSTRUCTIONS

09/04

69441 Rev. A

### SAVE THESE INSTRUCTIONS

#### FEATURES:

The Attwood water-resistant 90° fuel tank vent is designed for permanently installed fuel systems and is intended for use with 5/8" vent hose. Hull thickness should be 1" maximum (use 1/2" thick spacer for hull thickness between 1/2" & 3/4". Use 3/4" thick spacer for hull thickness between 1/4" & 1/2").

The unique design helps avoid ingestion of water into the fuel tank under normal sea conditions and washdown.

The design includes a series of baffles and traps to allow air to move freely while reducing the possibility of water splashing back into the tank.

Eliminates the need for an anti-siphon loop in the vent hose and allows a more direct routing of the hose to the fuel tank requiring less hose for installation.

Meets ABYC H-24 ventilation specifications,

U.S. Patent Nos. 4,877,152 and D,314,548

**⚠ WARNING:** Do not install this vent in a location lower than the top of the fuel tank. It may allow fuel to escape creating a fire hazard.

#### TOOLS AND MATERIALS REQUIRED FOR INSTALLATION

- Drill
- 1-3/8" (35 mm) hole saw
- 3/16" (5 mm) hex head wrench
- 7/16" (11 mm) hex head wrench
- Appropriate marine sealant
- Ruler or tape measure

#### MOUNTING INSTRUCTIONS

1. Select location that is the highest point possible above the top of the fuel tank as installed in the boat under normal operating conditions. Install as high and as far forward toward the helm as practical. It is important that the vent is in a location where it will not be submerged or exposed to constant wave action or splashing. **MAKE SURE THERE IS ENOUGH ROOM INSIDE THE HULL FOR THE VENT AND HOSE BEFORE DRILLING THE MOUNTING HOLE** (See Figure 1 or Figure 1a). Hull thickness should be 1/4" maximum (See Spacer Chart, Figure 3).
2. Carefully drill a 1-3/8" (35 mm) diameter hole for installation of the vent. Keep the hole clear of burrs and fiberglass strands.
3. Remove cap with 3/16" (5 mm) hex head wrench. Remove screen to expose 7/16" (11 mm) hex socket, use this socket to tighten in Step 5.
4. Apply a small bead of sealant on the vent body threads.
5. Put gasket onto threaded area of vent body. Insert vent body into predrilled hole from outside of hull and screw into the P-trap body, making sure the hose fitting is pointing down. Tighten to 3-5 ft-lbs.

**⚠ CAUTION:** Over tightening will damage the plastic threads

6. Using a corrosion-resistant clamp, install vent hose to hose fitting.
7. Install endcap with hex wrench - tighten to 30-35 in-lb. torque, 3.39 to 3.95 N-Meters.

#### MAINTENANCE

You will know the vent needs maintenance if vapor rushes into or out of fuel tank when you open deck fill cap. You may also notice difficulty while fueling (back-splash or pump shutting off continuously during fill).

Debris and spider webs can block vent, especially after storage. Use these steps to clean vent screen before and after storage, or at least once a year. Do this maintenance while boat is out of the water, so you do not risk losing parts.

1. Use a 3/16" (5 mm) hex wrench to turn cap off counter-clockwise. Set cap aside for re-installation. (Figure 2)
2. While cleaning, DO NOT allow debris to fall down the vent tube into tank.
3. Remove screen and clean with solvent or air pressure.
4. Replace screen in original position.
5. Replace and tighten vent cap (30-to-35 in-lb. torque, 3.39 to 3.95 N-Meters).

Figure 1

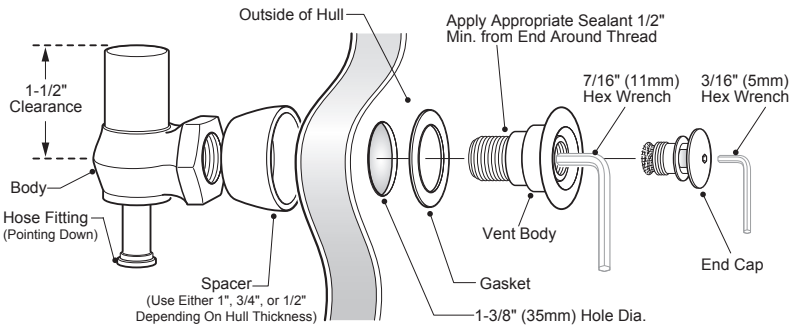


Figure 2

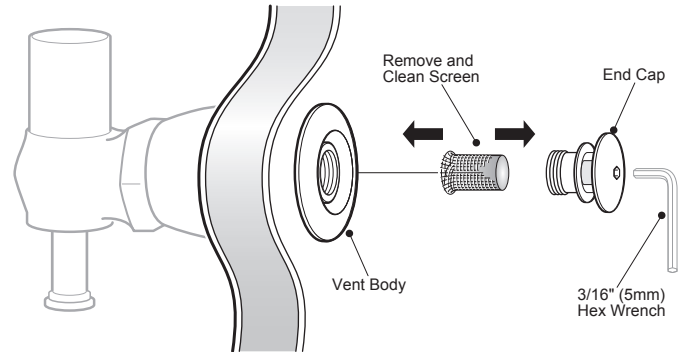


Figure 1a

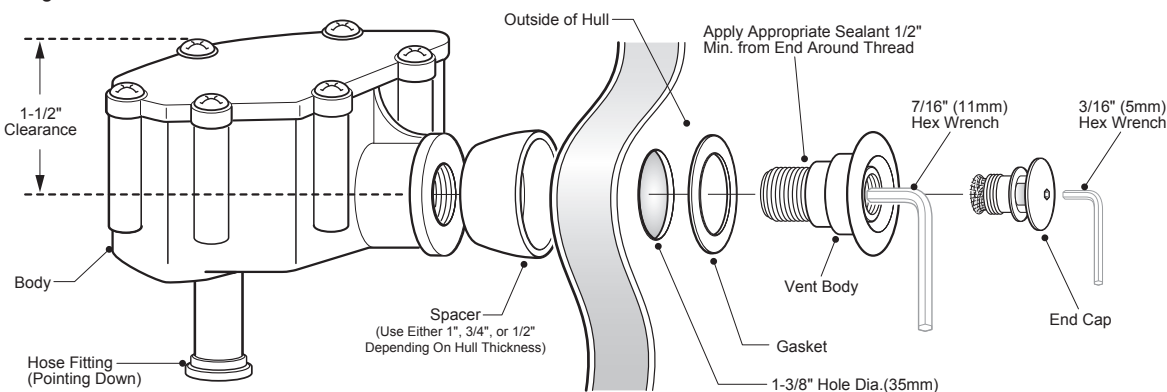


Figure 3

Spacer Size	Hull Thickness
1"	0" To 1/4"
3/4" P/N 911508	1/4" To 1/2"
1/2" P/N 911507	1/2" To 3/4"
None	3/4" To 1"