

## Fig. 0463T Fuel Demand Valve 1" NPTF Dry Seal Threaded Valve for use on Aluminum Tanks for EPA Compliant Fuel Systems

### INSTALLATION INSTRUCTIONS

#### PLEASE READ ALL INSTRUCTIONS BEFORE PROCEEDING

These valves are for use on fuel tanks to comply with the CARB and EPA standards and meet the requirements of U.S.C.G. Safety Standards (July 31, 2011) for 40 CFR Parts 9, 60, 80 et al. (Control of Diurnal Emissions From Nonroad Spark-Ignition Engines and Equipment).

#### Operating Parameters:

- Maximum tank pressure - 7 psi
- Maximum suction - 10" of Mercury (4.91 psi)
- Suction required for opening - 1-1/4" of Mercury (0.61 psi)
- Maximum line drop (below the top surface of tank) with anti-siphon protection - 12"

#### Note: Installer-supplied mating components must be CARB, EPA and ABYC compliant.

1. These valves are designed to mount into 1" NPTF dry seal aluminum threaded receivers welded onto tanks. (Receiver not supplied).
2. Thread valve into receiver and orient hose barb in the direction of the fuel line. Do not use the hose barb as a lever to tighten valve, use flats for wrench on valve body
3. Fuel distribution line attachment – Use 3/8" hose for 3/8" valves and 1/2" hose for 1/2" valves. Attach fuel hose onto the output hose barb and tighten using a hose clamp in accordance with ABYC Fuel System Vent Hose Clamping Standards (H24 Table 3).
4. Fuel pick-up line attachment – Cut fuel pick up tube to proper length for tank. Attach fuel pick-up tube to adapter and secure (using heat or a mechanical method).
5. Thread adapter (with pickup tube attached) into valve housing until it seats **using 15-20 ft. lbs. of torque.**

NOTE: Install valves ONLY in locations that are protected from water and deck runoff.

NOTE: Inspect valve fitting annually for damage, corrosion, or loose parts. If replacement is necessary, contact your qualified marine service technician.

NOTE: These valves prevent tank pressure from transferring to the fuel distribution line.

NOTE: Anti-siphon protection is limited to a maximum of 12" of fuel distribution line drop below the top surface of tank. See ABYC H-24-15.10 for specific anti-siphon requirements.

NOTE: Black rubber cover protects the valve from corrosion due to water (salt or fresh) cleaning fluids, solvents and other liquids. Do not remove the cover unless valve is protected from all liquids. Depress the center of the cover on valve body to pressurize the fuel line from the valve to the engine during fuel system pressure test. Be sure ample clearance is provided to assure that the cover does not come into contact with close surfaces above tank. Such contact will cause valve to activate and pressurize engine feed line.

#### Cat Nos:

- 0463T38038 - Threaded with 3/8" input and 3/8" output
- 0463T12012 - Threaded with 1/2" input and 1/2" output
- 0463T0B038 - Threaded Body Only 3/8" output
- 0463T0B012 - Threaded Body Only 1/2" output



**Fig. 0463T**  
**(1" NPTF Threaded)**  
with 1/2" input and 1/2" output Shown

\*The above referenced standards can be obtained from:

- (1). American Boat & Yacht Council, Inc. (2) U.S. Coast Guard  
613 Third Street, Suite 10 Washington, D.C. 20593  
Annapolis, MD 21403 (or your local C.G. office)

- (3). E.P.A.  
401 "M" Street S.W.  
Washington, D.C. 20460  
PERKO, INC.  
16490 N.W. 13th Avenue  
Miami, FL 33169-5707  
www.perko.com