



# OPW Installation and Maintenance Instructions

## 1611AN/1612AN Series Kamvalok® Adaptor Instructions

**IMPORTANT:** Please read these warnings and use the assembly instructions completely and carefully before starting. Failure to do so may cause product failure, or result in environmental contamination due to liquid leakage into the soil, creating hazardous spill conditions.

**IMPORTANT:** Check to make sure the unit is intact and undamaged and all parts have been supplied. Never substitute parts for those supplied. Doing so may cause product failure.

**WARNING-DANGER:** Using electrically operated equipment near gasoline or gasoline vapors may result in a fire or explosion, causing personal injury and property damage. Be sure that the working area is free from such hazards, and always use proper precautions.

**NOTE:** At all times when product is in the storage tank keep the riser pipe capped, so the vapors cannot escape into the environment.

**NOTICE:** OPW products must be used in compliance with applicable federal, state, and local laws and regulations. Product selection should be based on physical specifications and limitations and compatibility with the environment and material to be handled. All illustrations and specifications in this literature are based on the latest production information available at the time of publication. Prices, materials, and specification are subject to change at any time, and models may be discontinued at any time, in either case, without notice or obligation.

### Standard Product Warranty

*OPW warrants that products sold by it are free from defects in materials and workmanship for a period of one year from the date of manufacture by OPW (ECO products two years from date of manufacture.) Proof of purchase may be required. As the exclusive remedy under this limited warranty, OPW will, at its sole discretion, repair, replace, or issue credit for future orders for any product that may prove defective within the one-year date of manufacture period (repairs, replacements, or credits may be subject to prorated warranty for remainder of the original warranty period, complete proper warranty claim documentation required.) This warranty shall not apply to any product that has been altered in any way, which has been repaired by any party other than a service representative authorized by OPW, or when failure is due to misuse, or improper installation or maintenance. OPW shall have no liability whatsoever for special, incidental or consequential damages to any party, and shall have no liability for the cost of labor, freight, excavation, cleanup, downtime, removal, reinstallation,*

*loss of profit, or any other cost or charges.*

*For any product certified to California 2001 standards, OPW warrants that products sold by it are free from defects in material and workmanship for a period of one year from date of manufacture or one year from date of registration of installation not to exceed 15 months from date of manufacture by OPW.*

**THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND SPECIFICALLY THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.**

### 1611AN/1612AN Series Kamvalok®

#### Installation Instructions

1. Inspect and clean pipe prior to installation.
2. Apply pipe dope to threads. Pipe dope is to be non-hardening, gasoline resistant, pipe thread seal compound.
3. Thread on Kamvalok® and torque to 100-105 ft-lbs.

#### Adaptor Tear Down Instructions

4. Clamp the adaptor Kam groove end of valve in vise with soft jaws. Take care not to mar machined surfaces of adaptor.
5. Remove the snap ring from adaptor exercising care and caution. Poppet in valve is spring loaded. Spring forces range from 28 pounds on 1-1/2"-size products up to 50 pounds on 3"-size products.

**WARNING-DANGER: Exert pressure on the bridge to relieve force against the snap ring. Remove snap ring from groove in adaptor. Carefully remove pressure from bridge to prevent it from flying out of the adaptor and causing personal injury.**

6. Remove bridge, spring and poppet from adaptor. The poppet is not included in the repair parts kit. It will be necessary to replace the old O-ring.
7. Position poppet in collet or vice with soft jaws. Carefully pry O-ring out of the poppet groove (be careful not to scratch the groove seat with the prying tool. This could result in an O-ring leak). Discard old O-ring.

8. Re-assemble poppet and O-ring in the following manner:
  - a. Position new O-ring on top of the poppet.
  - b. With your thumb, press a section of the O-ring into the groove.
  - c. Press the O-ring around the poppet and over the groove lip (it is necessary to slightly stretch the O-ring to accomplish this).
  - d. Continue pressing the O-ring around the poppet until the O-ring is seated in the groove.

**NOTE:** Teflon encapsulated O-rings should be heated in hot water for easier installation.

9. Place rebuilt poppet, spring and bridge into position in the adaptor. Place the adaptor Kam groove end of valve in vise with soft jaws. Take care not to mar machined surfaces of adaptor.
10. Exert pressure on bridge to compress spring until snap ring groove is visible. While maintaining pressure insert snap ring into groove in adaptor. Carefully release pressure from bridge until it seats against snap ring.

#### **Test Procedure**

It is recommended that the valve be pressure-tested utilizing the air-underwater method by checking for leaks in the area of the poppet seat.

#### **Step 1:**

Place valve under water, tapping and rotating it to release any trapped air.

#### **Step2:**

Pressurize the valve to 2 PSI and check for leaks.

#### **Step 3:**

Then, increase pressure to 80 PSI and again check for leaks.

If pressurized air is not available, low pressure leaks could be checked by submerging the entire adaptor face up in a container of clear water. Air trapped inside the valve will bubble through or around the poppet if seal is not proper.

This test should be repeated 3-4 times to ensure that the seal does not leak.

#### **Step 4:**

Depress and release the poppet each time before submerging the unit into water.



A DOVER COMPANY

9393 Princeton-Glendale Road, Cincinnati, Ohio 45011  
1-800-422-2525 Domestically - 513-870-3315 Internationally

[www.opw-fc.com](http://www.opw-fc.com)

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