



# Installation and Maintenance Instructions

## Bolt Down Multi-Port Water Shroud (MPWS-BD)

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

**IMPORTANT:** The OPW Spill Container is pre-assembled for your convenience and ease of installation. 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.

**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 specifications 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, clean up, downtime, removal, reinstallation, loss of profit, or any other cost or charges.

For any product certified to California 2001 standards, OPW warrants that product 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.

### Bolt Down Multiport Water Shroud Performance Specifications:

The Bolt Down Multi-Port Water shroud (MPWS-BD) is designed to mate with the OPW Multi-Port. The MPWS-BD isolates surface water and condensation from Tank Sumps. The Fiberglass Shroud Cover mates to a 42" OPW top hat (p/n 203246 for 33" single/dual and 203272 for 39" quad). Shroud boots isolate the spill container buckets using stainless steel band clamps, providing a tight seal between the water shroud top hat and the underside of the spill container-mounting ring. Bolts on the outer edge of the shroud cover secure it to the top hat. Available in 33" and 39" Diameter Covers.

### MPWS-XXBD consists of:

- (1) 33" or 39" Diameter Fiberglass Cover/ Water Shroud
- (1) Entry Fitting, DEB-0400 Entry Boot on 33"
- (2 or 4) D02575M Shroud Boot
- (2 or 4) 205181 Stainless Steel Clamps 15.125 - 15.75 SS
- (2 or 4) 205183 Stainless Steel Clamps 13.875 - 14.50 SS
- (1) Seal C05411M
- (1) Top Hat Seal (MPWS-33BDD Diesel Only) C05223M
- (1) Monitoring Cap/Pressure Relief D02875
- (1) 203250 Nut and Washer Kit
- (1) 203246 / 42" x 33" Reduction FRP Single/Dual
- (1) 203272 / 42" x 39" Reduction FRP Quad
- (1) FG Sleeve 205015

### Bolt Down Multi-Port Water Shroud Installation Instructions

1. See OPW Multi-Port Spill Container Manhole instruction sheet H15225PA after completing Step 10. Ensure that the tank sump height is set properly. The distance between the top of the sump and the top of the multi-port must be between 6 and 13-1/2 inches. (See L dimension in Figure 6). Ensure bucket orientation is correct before attaching top hat.
2. Insert supplied 4" FRP pipe with male threaded end and supplied monitoring cap into the entry fitting installed into the cover to the desired height. **Note:** Ensure that there will be adequate clearance between the multiport cover and monitoring cap. Tighten the two entry fitting band clamps to 30 in-lbs. **See Figure 1.**

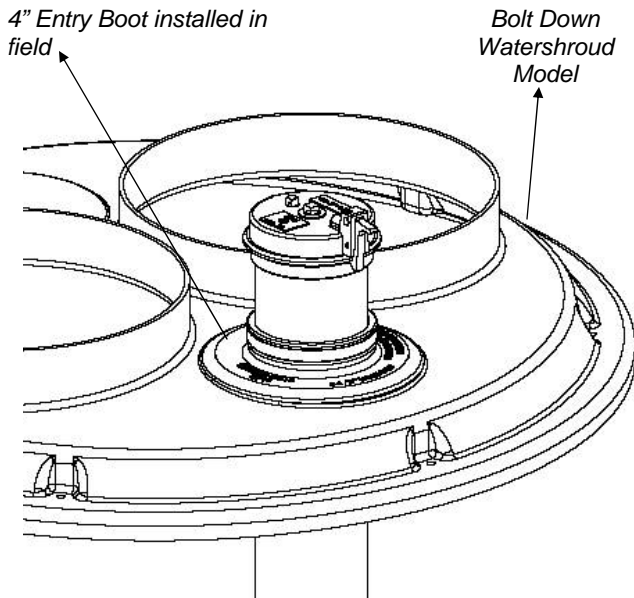


Figure 1

3. Connect the bottom of the shroud boots to the fiberglass cover using the large band clamps. Tighten the clamps to 60 in-lbs. **See Figure 2.**
4. Align bolt holes and place the shroud cover assembly onto the seal and top hat. Make sure the monitoring cap location will line up with the multi-port cover gauge port location. Make sure that the cover is seated against the gasket. **Tighten nuts to 75 to 125 in-lbs.**

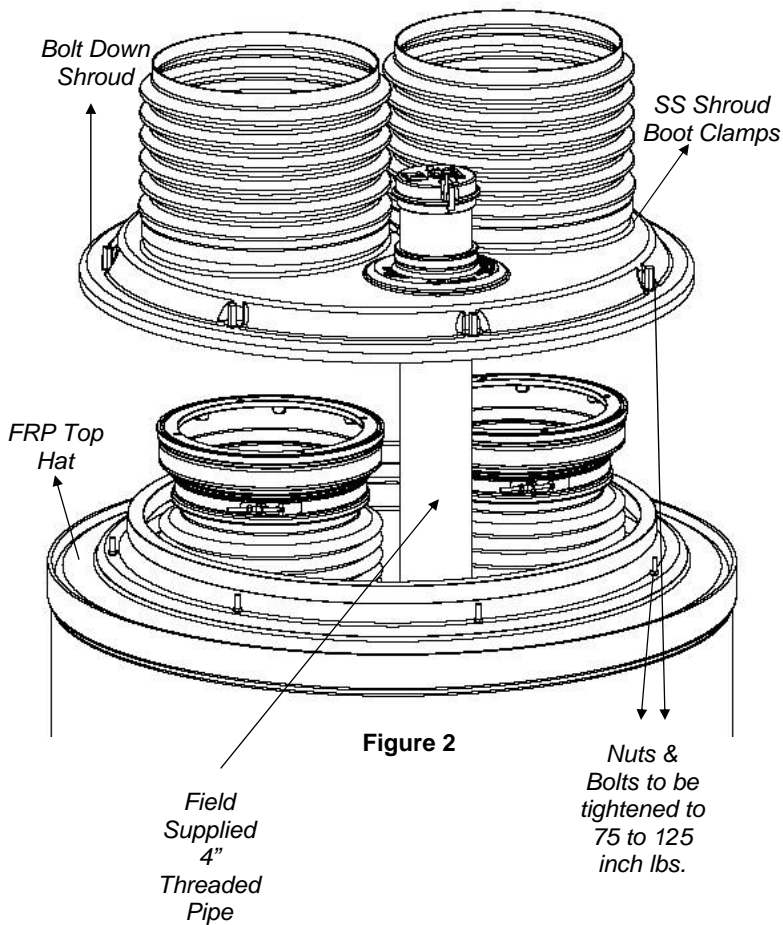


Figure 2

5. Use the small band clamps to connect the top of the shroud boots to the machined diameter on the outside of the bucket ring. Tighten the band clamps to 60 in-lbs. **See Figure 3.**

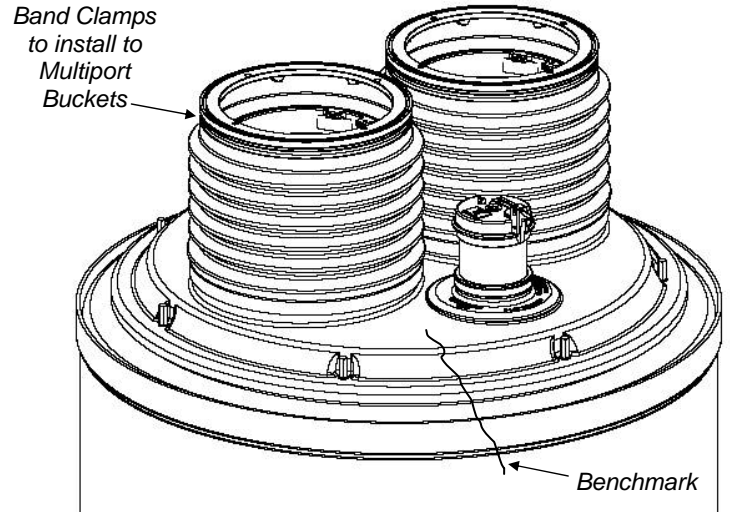


Figure 3

6. Connect vacuum test equipment to the monitoring cap 1/4" NPT test port.
7. Pull a vacuum of approximately 15" H<sub>2</sub>O on the sump and allow to stabilize.
8. Remove flow from sump and allow it to sit for 15 minutes. At this time, record the initial vacuum level. Note: This reading should be at least 10" H<sub>2</sub>O.
9. Allow the sump to sit for an additional 30 minutes and record the final vacuum level.
10. Sump passes if the final vacuum reading does not drop more than 5" H<sub>2</sub>O below the initial vacuum level.
11. If sump is not tight after testing, look for and repair any leaks then repeat steps 7 through 11.
12. Complete Step 12 in the Multi-Port Instruction Sheet (H15225PA). **See Figure 4** for final assembly.

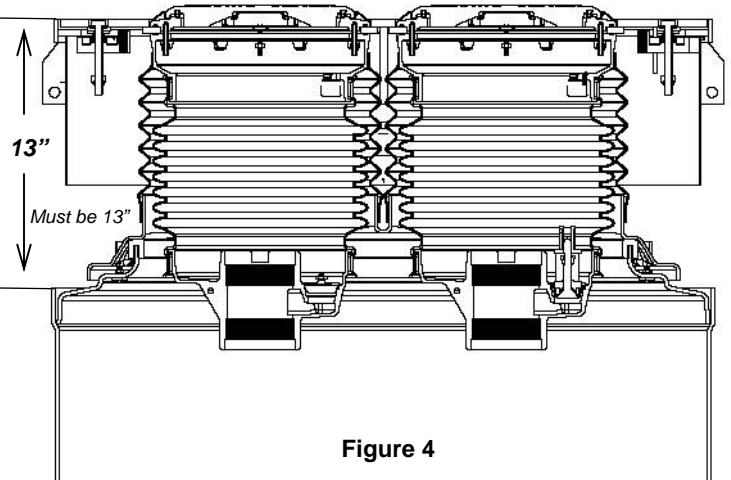


Figure 4

**NOTICE:** FlexWorks by OPW, Inc., VAPORSAVER™ and all other OPW products must be used in compliance with all applicable federal, state, provincial and local laws, rules and regulations. Product selection is the sole responsibility of the customer and/or its agents and must be based on physical specifications and limitations, 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 specifications are subject to change at any time, and models may be discontinued at any time, in either case, without notice or obligation.

OPW warrants solely to its customer that the following products sold by OPW will be free from defects in materials and workmanship under normal use and conditions for the periods indicated:

PRODUCT	WARRANTY PERIOD
FlexWorks Primary Pipe	10 years from date of manufacture
All Products Certified to California 2001 Standards*	1 year from date of manufacture or from date of installation registration (not to exceed 15 months from date of manufacture)
All other Products	1 year from date of manufacture

**\*Products certified to California 2001 Standards will have an OPW Registration Card enclosed/attached to the product.**

OPW's exclusive obligation under this limited warranty is, at its option, to repair, replace or issue credit (in an amount not to exceed the list price for the product ) for future orders for any product that may prove defective within the applicable warranty period. (Repairs or replacements are subject to prorated warranty coverage for remainder of the original warranty period). Complete and proper warranty claim documentation and proof of purchase required. All warranty claims must be made in writing and delivered during the applicable warranty period to OPW at OPW 9393 Princeton-Glendale Road Hamilton, Ohio, USA 45011, Attention: Customer Service Manager. No products may be returned to OPW without its prior written authority.

This limited warranty shall not apply to any FlexWorks or VAPORSAVER™ product unless it is installed by an OPW attested installer. This limited warranty also shall not apply to any FlexWorks, VAPORSAVER™ or other OPW product: unless all required site and warranty registration forms are completed and received by OPW within 60 days of installation; unless all piping connections are installed with a nationally-recognized or state-approved leak detection device in each tank and dispenser sump (which are not for storage and from which all discharge hydrocarbons must be removed, and the systems completely cleaned, within 24 hours); unless testable sumps utilize FlexWorks pipe and access fittings; unless a sump inspection log or an EPA recommended/required checklist is maintained and the results are furnished to OPW upon request; and unless OPW is notified within 24 hours of any known or suspected product failure and is provided with unrestricted access to the product and the site. This limited warranty also shall not apply to any product which has been altered in any way, which has been repaired by anyone other than a service representative authorized by OPW, or when failure or defect is due to: improper installation or maintenance (including, without limitation, failure to follow FlexWorks Quick Reference Manual Installation Guide and all product warning labels); abuse or misuse; violation of health or safety requirements; use of another manufacturer's, or otherwise unauthorized, substances or components; soil or other surface or subsurface conditions; or fire, flood, storm, lightning, earthquake, accident or any other conditions, events or circumstances beyond OPW's control.

**THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND ALL OTHER WARRANTIES INCLUDING, WITHOUT LIMITATION, THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY EXCLUDED.**

OPW shall have no other liability whatsoever, whether based on breach of contract, negligence, gross negligence, strict liability or any other claim, including, without limitation, for special, incidental, consequential or exemplary damages or for the cost of labor, freight, excavation, clean-up, downtime, removal, reinstallation, loss of profit, or any other cost or charges. No person or entity is authorized to assume on behalf of OPW any liability beyond this limited warranty. This limited warranty is not assignable. (Revised 1/2010)

**IMPORTANT INFORMATION - FOLLOW ALL INSTRUCTIONS**

Please contact your OPW-FCS Sales Representation or OPW-FCS Customer Service Representative at 1-800-422-2525 for installation procedures for OPW-FCS products. All OPW-FCS literature including Installation Instruction sheets and Manuals can be accessed from the OPW Website at [www.opwglobal.com](http://www.opwglobal.com).

The use of non-qualified personnel or any deviations from these recommended procedures could result in damage or leakage of the system.



**OPW Fueling Containment Systems**  
**3250 US 70 Business West**  
**Smithfield, NC 27577**  
**Customer Service: (800)-422-2525**  
**Customer Service Fax: (800)-421-3297**  
**Technical Questions: (919)-934-2786 x104**  
**[www.opwglobal.com](http://www.opwglobal.com)**

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