BEMIS HEALTH CARE

# Quick-Drain™
## Installation, Use & Care Manual

Model: QDHF3000

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# GENERAL INFORMATION

### ABOUT THIS MANUAL

This manual covers the installation, use, maintenance and basic troubleshooting of the Bemis® Quick-Drain™ System.

### INTRODUCTION

The Quick-Drain System is a wall-mounted, closed liquid medical waste disposal system designed for the controlled evacuation and disposal of potentially infectious fluids collected in compatible Bemis suction canisters. The system enables healthcare personnel to transfer collected fluids directly to existing facility sanitary sewer connections while reducing manual handling steps associated with traditional disposal methods.

### NATIONAL, STATE & LOCAL COMPLIANCE

It is the responsibility of the facility to ensure that all required permits are obtained, and applicable state and local plumbing codes are followed. The facility is also responsible for ensuring that medical fluid waste is handled and disposed of in compliance with all applicable federal, state, and local regulations related to human health, safety, and environmental protection.

### OSHA

Quick-Drain is intended to support employer compliance with the Occupational Safety and Health Administration (OSHA) Bloodborne Pathogens Standard (29 CFR 1910.1030), which requires the use of engineering and work-practice controls to reduce occupational exposure to bloodborne pathogens. Engineering controls are defined by OSHA as methods that isolate or remove the hazard from the workplace.

### NIOSH

Consistent with guidance from the National Institute for Occupational Safety and Health (NIOSH), which identifies engineering controls as a primary means of minimizing occupational exposure to biological hazards, the Quick-Drain System provides a closed, repeatable method for evacuating collected liquid medical waste while limiting manual handling and opportunities for spills or splashing.

### QUICK-DRAIN CONFIGURATIONS

The Quick-Drain System is designed for use exclusively with compatible Bemis suction canisters, offering an efficient and controlled method for the collection and disposal of liquid medical waste.

| QUICK-DRAIN COMPATIBILITY | | |
|---|---|---|
| **MODEL** | **COLLECTION TYPE** | **SIZES** |
| **QDHF3000** | Bemis Hi-Flow™ Rigid Suction Canister | 1200, 2000 and 3000cc |

### CAUTION:

- Use only Bemis-branded suction canisters listed in the above table. Non-Bemis collection products are not compatible and will not function with the Bemis Quick-Drain System.
- Individuals using the Quick-Drain must be properly trained to handle and dispose of medical fluid waste.

### WARNING:

The suction canister and Quick-Drain may contain residual blood or body fluids. Dispose of all components in accordance with facility medical waste policies and follow OSHA Bloodborne Pathogens Standard precautions, including use of appropriate personal protective equipment (PPE).

# GENERAL INFORMATION

## LIMITED WARRANTY

Bemis Manufacturing Company (Bemis) warrants that Quick-Drain will conform to any mutually agreed-upon specifications, and will be free of defects in material, workmanship, and title for a period of five (5) years from the date of purchase (invoice date) by the original owner, or for the period prescribed by any applicable law or regulation, whichever is longer. If Buyer provides written notice of a Product defect to Bemis within the applicable warranty period and Buyer provides adequate documentation or evidence that establishes a Product defect to Bemis's satisfaction, Buyer's sole remedy is the repair, replacement, or refund of the Product's purchase price (less shipping, if applicable), at Bemis's option. Bemis may, at its option, require the return of any Product for inspection and testing before honoring any defect claim. This Limited Warranty excludes component parts not specified by Bemis, and excludes costs related to shipping and labor, including removal, disposal, repair, or replacement of the defective Product and installation of replacement Product (if applicable). Proprietary Products returned for a refund must be in original packaging and in saleable condition, and may be subject to a restocking fee. Discontinued colors or models, and custom or specially ordered Products cannot be returned for a refund. This Limited Warranty is void if: (a) the Product has not been installed, used, or maintained according to any applicable written materials, including written instructions, specifications, packaging, and manuals; (b) the Product is not used for the intended application, or (c) the Product has been modified or repaired without Bemis's express written permission.

THIS LIMITED WARRANTY IS PROVIDED IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. BEMIS EXPRESSLY DISCLAIMS LIABILITY FOR SPECIAL, PUNITIVE, EXEMPLARY, CONSEQUENTIAL OR INCIDENTAL DAMAGES ASSOCIATED WITH THE PRODUCT, INCLUDING LOST PROFITS OR BUSINESS INTERRUPTIONS. BEMIS'S LIABILITY UNDER THESE TERMS AND CONDITIONS SHALL NOT EXCEED THE PURCHASE PRICE OF THE PRODUCTS.

BUYER ACKNOWLEDGES AND ACCEPTS THAT BUYER IS SOLELY RESPONSIBLE FOR DETERMINING THAT A PARTICULAR PRODUCT IS APPROPRIATE FOR BUYER'S INTENDED PURPOSE AND THAT BUYER IS NOT RELYING UPON ANY ADVICE, REPRESENTATION OR STATEMENT OF BEMIS OR ITS REPRESENTATIVES REGARDING THE SUITABILITY OF ANY PRODUCT FOR ANY PURPOSE, including any advice, recommendation or information obtained from Bemis's product literature or web sites, or any design assistance or other service made available by Bemis. Buyer is responsible for performing all appropriate Product testing, evaluation, certification, and final approval. For Bemis Products that Buyer will incorporate into Buyer's goods, Buyer acknowledges and accepts that it is solely responsible for the performance, capabilities, and safety of the end product, including developing user instructions or manuals, labels, warnings, and providing end-user support.

**Items Not Covered (non-exhaustive)**

- Incidental or consequential damages.
- Service calls that do not involve defects in material or workmanship such as customer education or improper installation, including low water inlet flow of less than 40-60 psi pressure.
- Service calls involving a clogged unit that can be resolved with the backwash procedure or clogged drains past the unit discharge.
- Regular maintenance, as documented within this manual.

**For Repair Service**

- **Under this Warranty:** Contact Bemis Health Care Customer Service. Bemis has sole authority to authorize agents for warranty work.
- **After Warranty:** Repairs after warranty are the sole responsibility of the purchaser.
- **Service Providers:** Most facilities utilize their Clinical Engineering staff, maintenance personnel or certified plumbers for general maintenance or repair of Quick-Drain. For referral information on qualified service providers in your area, please contact Bemis Health Care.

### Customer Service information

For questions regarding the installation, function, service or sale of the Quick-Drain and accessories, please contact Bemis Health Care Customer Service.

### Bemis Health Care Customer Service

T. (800) 558.7651
8:00am - 5:00pm CT Mon-Fri
Customer.Service@BemisHealthCare.com

## SUPPORT RESOURCES

Visit **BemisHealthCare.com** to access a variety of resources to support the installation, use, maintenance and troubleshooting of your Bemis Quick-Drain System.

**For Medical Equipment Repair or Service Contact:**
MERA - Medical Equipment Repair Associates (800) 776.7158

Refer to Bemis Health Care Website for more Quick-Drain information:

**bit.ly/4ck6Vio**

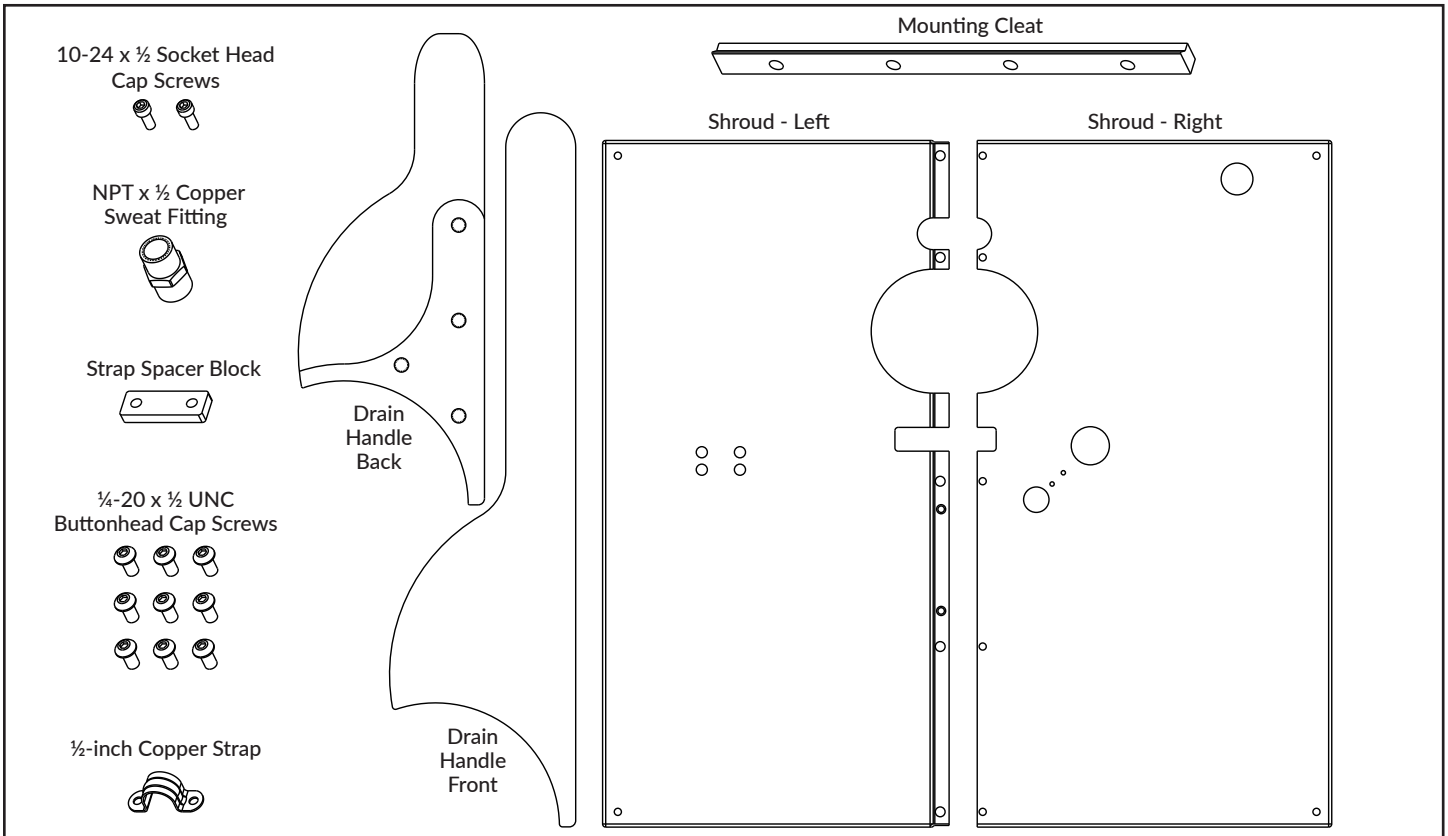
# INSTALLATION - QUICK-DRAIN HF

## QUICK-DRAIN CRATE CONTENTS - UNASSEMBLED PARTS LIST

Remove any shipping materials or temporary packaging used to secure the unit or components during shipment. In addition to the main Quick-Drain unit, the following unassembled parts are included in the Quick-Drain crate and are required for installation and assembly.

Remove the Quick-Drain unit, mounting guide, mounting cleat, drain handle assembly, shrouds, hardware, fittings, and all other supplied components from the crate. Verify that all listed parts are present before proceeding.

Additional tools, fasteners, fittings, or materials may be required depending on the installation site and applicable facility or plumbing requirements.




- 1 - Bemis Quick-Drain Fluid Disposal System (Model QDHF3000)
- 1 - Quick-Drain HF Installation, Use & Care Manual
- 1 - Mounting Guide
- 1 - Mounting Cleat
- 1 - Drain Handle Assembly (Front and Back)
- 1 - Strap Spacer Block
- 1 - ½-inch Copper Strap
- 2 - 10-24 x ½ Socket Head Cap Screws
- 9 - ¼-20 x ½ UNC Buttonhead Cap Screws
- 1 - ⅜ NPT x ½ Copper Sweat Fitting
- 2 - Shrouds (Left and Right Panels)

### INSTALLATION PREPARATION

Before beginning installation, review the Quick-Drain HF installation video, if available, for a general overview of the installation sequence. The written instructions in this manual remain the primary installation reference.

Refer to the Bemis Quick-Drain HF Installation Video here: **bit.ly/3R3BjpX**

**NOTE**: Before beginning installation, shut off all affected water lines and verify that all required components and tools are available.

### INSTALLATION REQUIREMENTS

These instructions are written in general terms and require the installer to modify them as needed to meet applicable state and local plumbing codes and federal, state, and local regulations for the disposal of medical fluid waste. General requirements are provided below to support proper installation of the Quick-Drain unit; however, additional materials or installation steps may be required depending on the installation site.

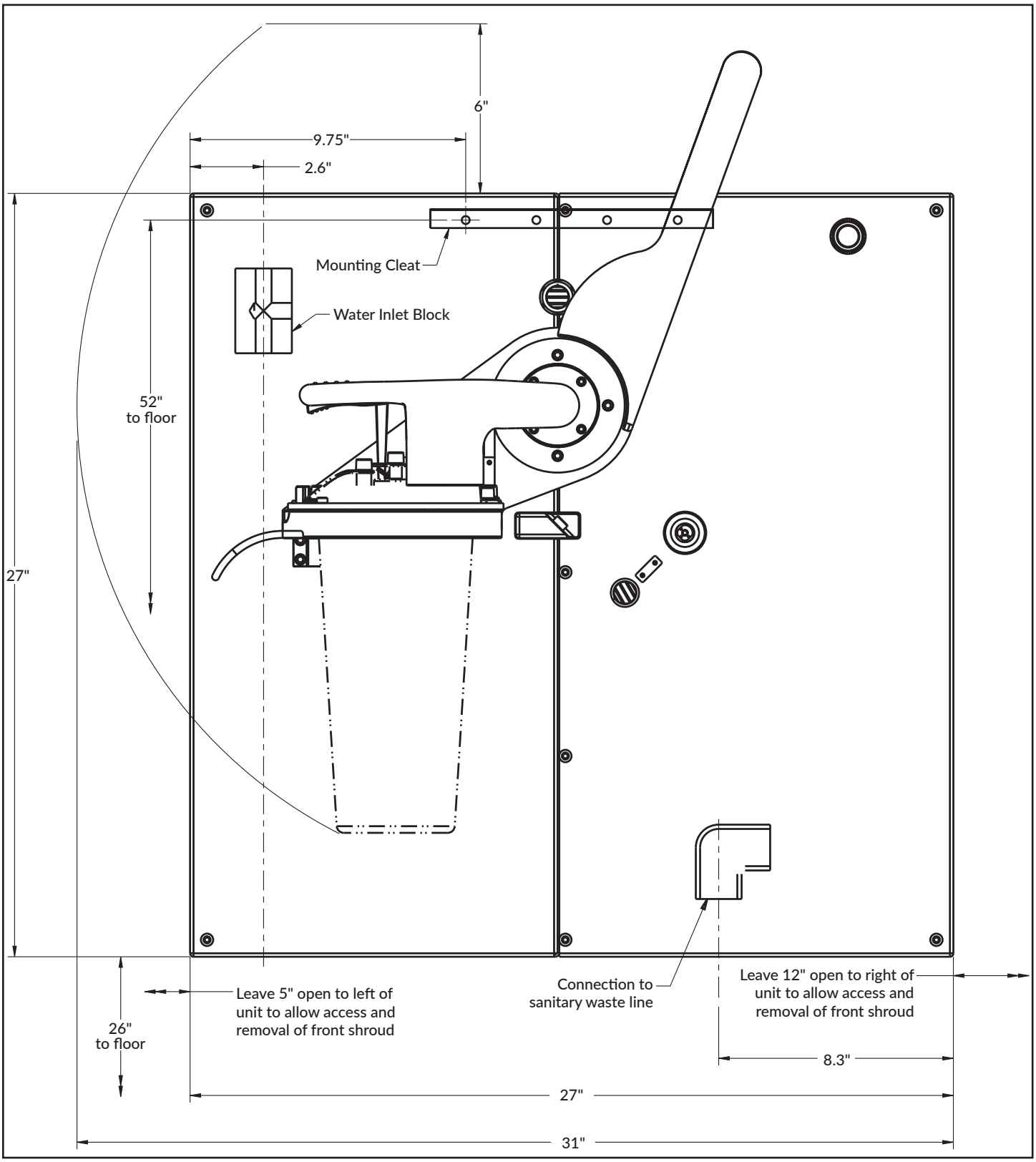
### INSTALLATION LOCATION

Quick-Drain is a stand-alone, wall-mounted unit intended for installation in a designated clinical support space, such as a dirty utility room, decontamination room, or central processing department. The selected location should be within the clinical

service area where suction canister waste is generated, but isolated from patient contact, treatment activities, and other direct patient-care areas.

Locating the Quick-Drain System near the point of waste generation helps minimize the transport of collected fluids through public corridors or non-clinical areas and supports safer handling practices.

**FIGURE 1: QUICK-DRAIN HF INSTALLATION DIMENSION DIAGRAM**



## FACILITY ASSESSMENT AND REQUIREMENTS

It is the responsibility of the facility to ensure that all required permits are obtained, and applicable state and local plumbing codes are followed. The facility is also responsible for ensuring that medical fluid waste is handled and disposed of in compliance with all applicable federal, state, and local regulations related to human health, safety, and environmental protection.

Before installation, assess the installation site to confirm the following requirements are met:

- A certified plumber is available for installation of utility connections
- A dirty utility, decontamination room, or reprocessing area is available
- A fresh water supply with pressure between 40–60 psi is supplied by a ½-inch pipe
- Open wall space is available as shown in **Figure 1**
- The wall area is capable of supporting a 150 lb. static load
- A code-compliant backflow preventer is installed on the inlet water line, such as a Watts Double Check Reduced Pressure backflow preventer or equivalent device as required by local code
- A minimum 1-inch sanitary waste line is available

### Typical Materials and Tool Requirements

- Standard plumbing tools
- Trap
- Cleanout
- Ball valves
- Various piping and fittings
- Screws or bolts capable of supporting a 150 lb. static load

## INSTALLATION PROCEDURE

1. **Position Mounting Guide and Install Mounting Cleat** - Position the supplied mounting guide at the selected installation location and mark the mounting locations. Drill mounting holes as required. Using the mounting cleat provided, mount the cleat to the wall as shown in Figure 3. Use appropriate fasteners to ensure the mounting cleat can support a minimum load of 150 lb. (68 kg).

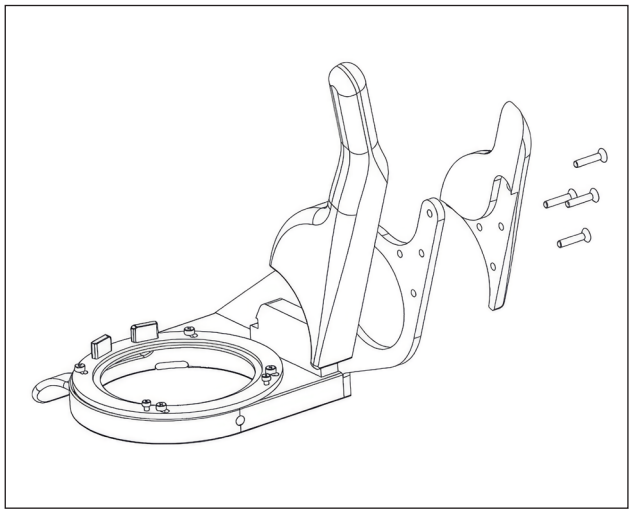
**NOTE:** In some installations, it may be beneficial to install wall stringers or a backboard prior to mounting the Quick-Drain. Ensure adequate clearance for full movement of the Handle and Swingarm.

2. **Mount the Quick-Drain Unit** - Hang the Quick-Drain unit onto the mounting cleat. Secure the unit to the wall using appropriate fasteners through the four corner holes of the backplate.
3. **Install Handle Assembly** - Remove the Handle Assembly from the packaging. Remove the fasteners securing the two handle components together. Align the handle components onto the Swingarm as shown in **Figure 2** and reassemble using the original fasteners.

### UTILITY CONNECTIONS AND TESTING

4. **Connect Water Supply Line** - Run a ½-inch water supply line to the Quick-Drain unit from either the top or bottom inlet. If running from the bottom inlet, secure to Quick-Drain back plate using Strap Spacer Block and ½-inch Copper Strap. Install a shutoff valve in the water line upstream of the Quick-Drain to allow isolation of the unit, if required.
5. **Seal Unused Water Inlet** - When connecting the water supply line to the inlet water block, insert the provided plug into the unused water inlet port. Reposition the bent stainless steel cover plate to cover the unused opening in the front shroud.
6. **Connect Sanitary Waste Line** - Connect the sanitary waste line to the 1-inch female PVC fitting on the Quick-Drain unit. A cleanout trap must be installed between the Quick-Drain and the sanitary waste line. A solid, sealed connection is recommended. Do not install air gaps and do not discharge directly into an open floor drain.
7. **Pressurize and Inspect Water Connections** - Turn on the water supply and inspect all water connections for leaks. Correct any leaks before proceeding.
8. **Perform Functional Leak Test** - Fill a compatible Hi-Flow rigid suction canister with water and drain it according to the Quick-Drain HF Directions for Use. Inspect all connections during operation. Tighten fittings as needed to eliminate leaks.

**FIGURE 2: HANDLE ASSEMBLY**



**Handle Assembly** - Remove the Handle from the box and remove the fasteners holding the two pieces together. Align the Handle parts over the Swingarm and fasten together with the same fasteners.

### SHROUD INSTALLATION

9. **Remove Swingarm Support** - With the Swingarm in the Home Position, locate the Swingarm Support. Using an Allen wrench, remove the four cap screws securing the Swingarm Support, then remove the Swingarm Support. **Refer to Figure 3.**
10. **Install Left Shroud** - Slide the left shroud onto the unit from the left side. The shroud will slide behind the Swingarm and around the aluminum backplate. Move the Swingarm as needed to allow proper positioning.
11. **Reinstall Swingarm Support** - Reinstall the Swingarm Support removed in Step 9 using the original fasteners.
12. **Secure Left Shroud** - Using the component bag hardware, install two ¼-20 x ½ buttonhead socket cap screws in the top-left and bottom-left corners of the backplate. Then install two 8-32 x 3/8 flathead socket cap screws to secure the right edge of the left shroud to the aluminum mounting block.
13. **Install Right Shroud** - Slide the right shroud onto the unit from the right side so it overlaps the left shroud. Using seven ¼-20 x ½ buttonhead socket cap screws, secure the right shroud to the backplate at the upper-right and lower-right corners using two screws. Use the remaining five screws to secure the overlapping shrouds at the center seam. **Refer to Appendix D** for shroud assembly reference.

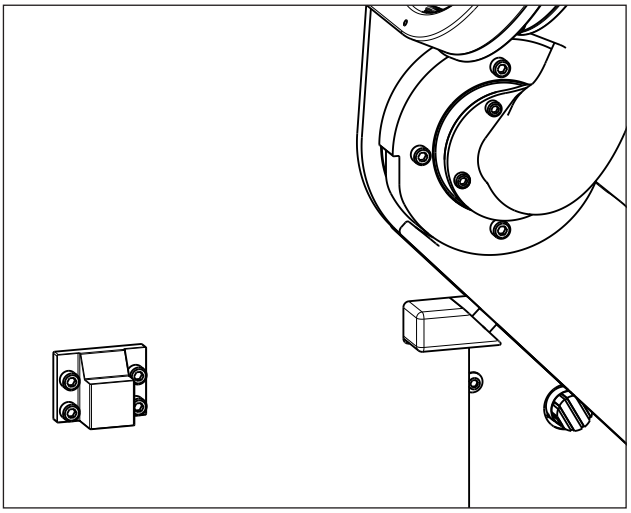
### INSTALLATION COMPLETION

14. **Final Installation Check** - Confirm that the Quick-Drain unit is securely mounted, the Handle and Swingarm move freely, the water supply is connected and leak-free, the sanitary waste line is connected, the unused water inlet is plugged, the shrouds are secured, and the functional leak test has been completed.
15. **Unit Registration** - Once installation and functional testing are complete, register the Quick-Drain unit using the website or QR code. **Registration is required to activate the Basic Maintenance Plan**, which includes maintenance reminders, support resources, and complimentary replacement Seals and O-rings for a limited time. Refer to the Basic Maintenance Plan section for additional details.

Use the link or QR code to access the **Contact Us** page. Select **Quick-Drain System Warranty Registration** and complete the required fields.

**bit.ly/4ck8dtK**

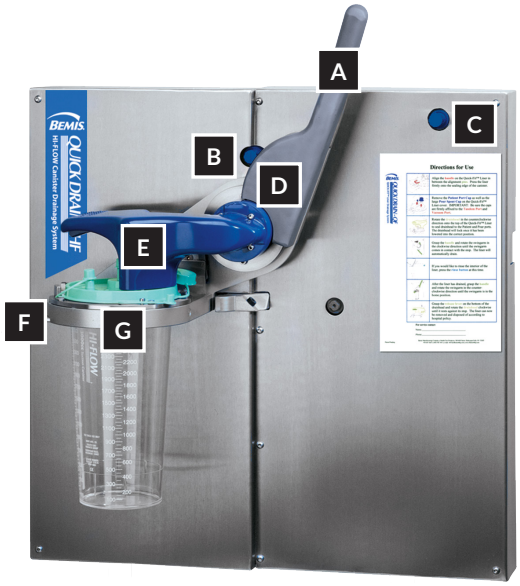
**FIGURE 3: SWINGARM SUPPORT**



**Swingarm Support** - When in the Home Position, the Swingarm rests on the Swingarm Support. Remove the four Cap Screws and Swingarm Support with an Allen wrench. This will allow for the left shroud to be installed. Use the Allen wrench to reinstall the Swingarm Support afterwards.

# INSTRUCTIONS FOR USE - QUICK-DRAIN HF

## USE COMPONENTS - QUICK-DRAIN HF MODEL QDHF3000




A - Handle
B - Main Water Valve Button
C - Rinse Button
D - Swingarm
E - Drainhead
F - Slide Plate
G - Receptacle

### COMPATIBLE HI-FLOW SUCTION CANISTERS

The Quick-Drain HF unit is designed for use with compatible Bemis Hi-Flow rigid suction canisters in 1200cc, 2000cc, and 3000cc sizes.

1200CC 2000CC 3000CC

## QUICK-DRAIN HF - DIRECTIONS FOR USE

**CAUTION:** Suction canisters may contain residual fluid. Handle all components as potentially infectious. Wear appropriate PPE and follow facility procedures for the handling, transport, and disposal of medical fluid waste.

Refer to the Bemis Quick-Drain HF Operation Video here: **bit.ly/4vmBBHo**

1. **Prepare the Hi-Flow Canister for Transport** - Disconnect all tubing from the Hi-Flow Canister and dispose of tubing in accordance with facility policy. Confirm that all Canister Ports are securely capped using the integrated Port Caps before transporting the Canister to the Quick-Drain HF unit.
2. **Confirm Quick-Drain is in Home Position** - Before loading the Canister, confirm that the Swingarm is in the Home Position and the Drainhead is rotated clockwise until it rests against the Swingarm Handle. In this position, the Safety Latch is engaged and the Swingarm cannot rotate until the Drainhead is properly seated and locked onto the Canister Lid. Refer to **Figures 4 and 5.**
3. **Position Canister in Receptacle** - Place the compatible Bemis Hi-Flow Canister into the Quick-Drain HF Receptacle. Align the handle on the Hi-Flow Lid between the Alignment Guides on the Quick-Drain unit. **Refer to Figure 6.**
4. **Remove Required Port Caps** - Remove the Tandem Port Cap and the large Accessory Port Cap from the Hi-Flow Lid. Place the removed Port Caps between the Cap Retainers to keep the tethered Caps out of the way during draining. Ensure that the Patient Port and Vacuum Port Caps remain securely in place. **Refer to Figure 6.**
5. **Engage Drainhead** - Rotate the Drainhead counterclockwise onto the Hi-Flow Canister Lid, aligning the Drainhead with the Tandem and Accessory Ports. Lower the Drainhead until it seats and locks into place. An audible click may be heard. **Do not force or slam the Drainhead onto the Canister Ports, as this may damage the unit.** Once the Drainhead is locked onto the Canister Lid, the Safety Latch will release and the Swingarm can rotate to the Drain Position. **Refer to Figures 7 and 8.**
6. **Drain Canister** - Grasp the Handle and rotate the Swingarm clockwise until it contacts the Stop. The Venturi suction will automatically activate and the Canister contents will drain. **Refer to Figure 9.**
7. **Rinse Canister (Optional)** - Once Canister contents are drained, press the Rinse Button while the Canister is in the Drain Position. Allow the Canister to fully drain before returning the Swingarm to the Home Position. **Refer to Figure 9.**
8. **Return Swingarm to Home Position** - After drainage is complete, grasp the Handle and rotate the Swingarm counterclockwise back to the Home Position.
9. **Perform Additional Rinsing (Optional)** - With the Swingarm in the Home Position, if additional rinsing is desired after the initial drain cycle, press and hold the Main Water Valve Button and Rinse Button simultaneously to fill the Canister with water. Release both Buttons once water reaches the desired fill level. Gently rock the Swingarm, if desired, to help rinse the interior of the Canister. Rotate the Swingarm clockwise to the Drain Position to empty the Canister, then return the Swingarm to the Home Position after drainage is complete. **Refer to Figure 10.**
10. **Release Drainhead** - Place one hand on the top of the Canister Lid. With the other hand, compress the Release Lever on the bottom of the Grip Plate and lift until the Drainhead releases from the Canister Lid. Rotate the Drainhead clockwise until it rests against the Swingarm Handle. **Refer to Figures 12 and 13.**
11. **Recap, Remove, and Dispose of Canister** - Recap the Accessory Port and Tandem Port on the Hi-Flow Canister. Remove the Canister from the Receptacle and dispose of it in accordance with facility policy. **Refer to Figure 14.**


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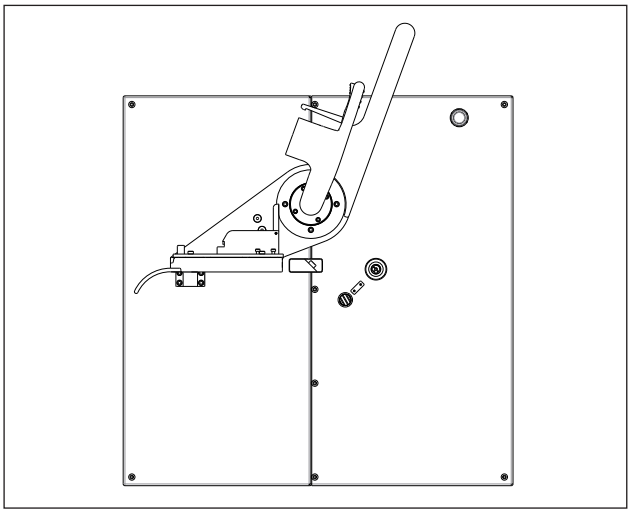
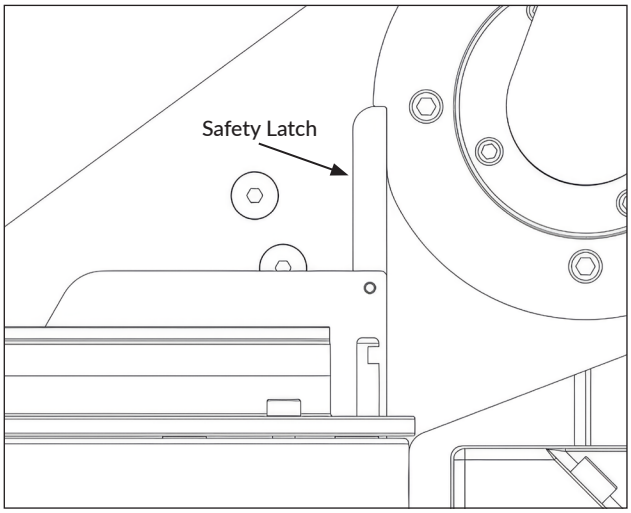
**FIGURE 4: QUICK-DRAIN IN HOME POSITION**



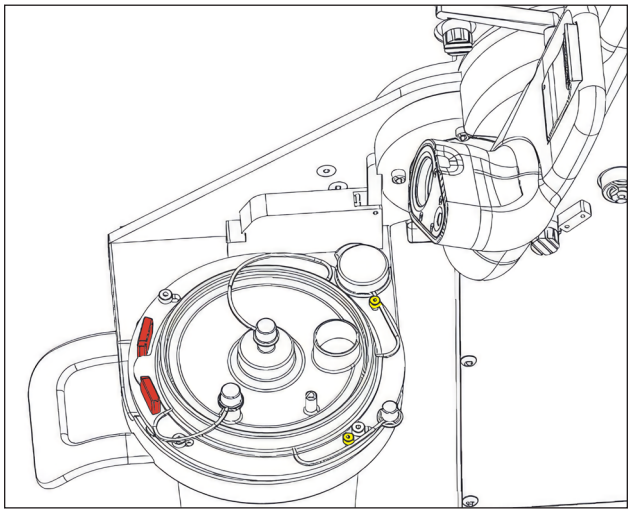
**Home Position** - When the Quick-Drain is not in use, it should be kept as shown. The Swingarm is in the loading position and the Drainhead is rotated clockwise until it rests against the Swingarm handle.

**FIGURE 5: SAFETY LATCH**



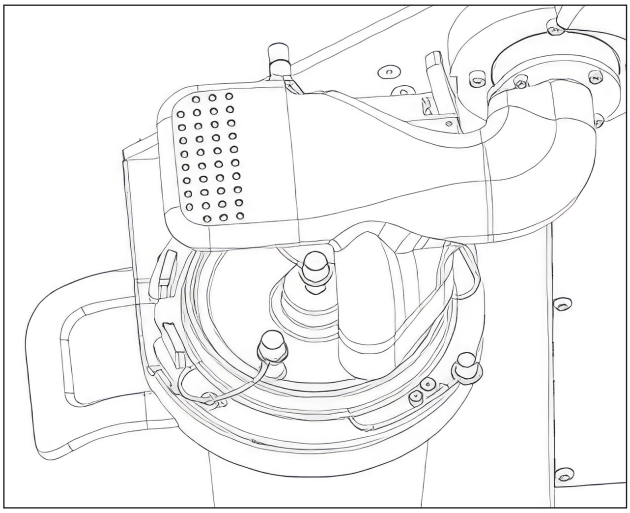

**Safety Latch** - When the unit is in this position, the Safety Latch will be activated so that the Swingarm will not be able to rotate.

**FIGURE 6: HI-FLOW CANISTER LOADED IN QUICK-DRAIN**



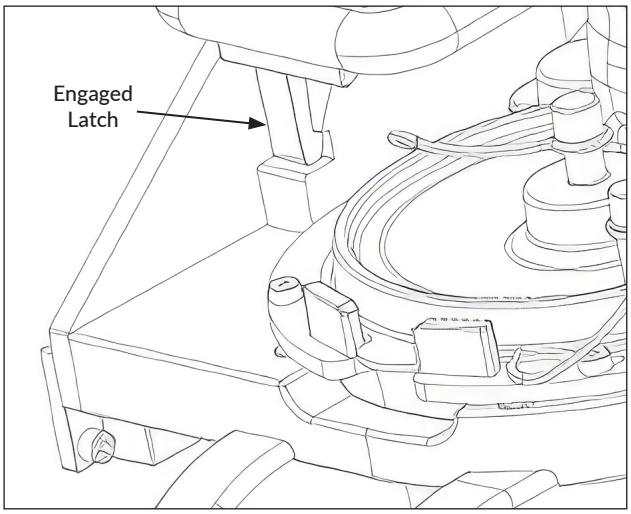
**Loading Position** - When loading, align the handle on the Hi-Flow Lid in between the Alignment Guides (refer to color red). Remove the Caps from the Accessory and Tandem Ports and wrap around the Cap Retainers (refer to color yellow) to keep them out of the way during draining.

**FIGURE 7: DRAINHEAD SEATED ONTO CANISTER LID**



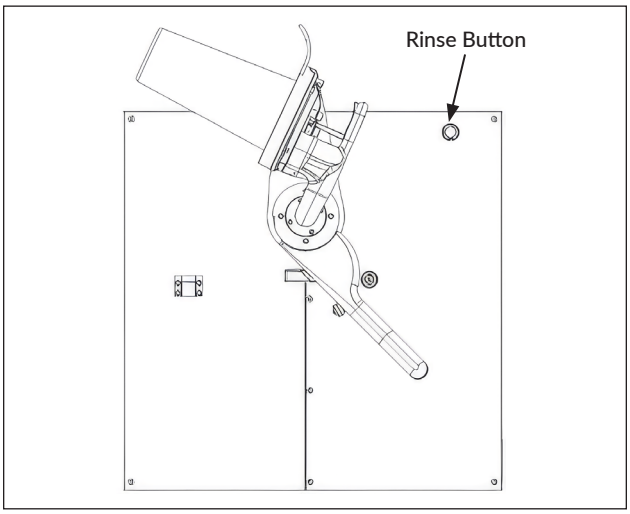
**Drainhead Engagement -** Rotate the Drainhead in the counterclockwise direction. Once the Drainhead has seated itself onto the Hi-Flow Canister Lid, it will latch itself to the Swingarm.

**FIGURE 8: DRAINHEAD LATCH ENGAGED**



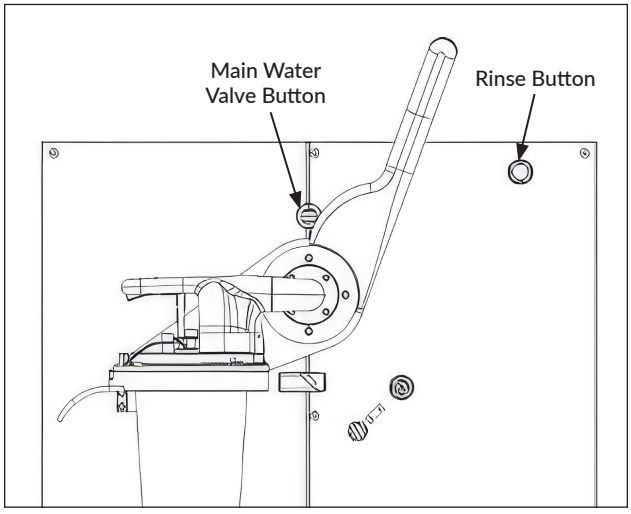

**Engaged Latch** - Once this latch has been engaged, the safety interlock will be released so that the Swingarm may be rotated.

**FIGURE 9: DRAIN POSITION**



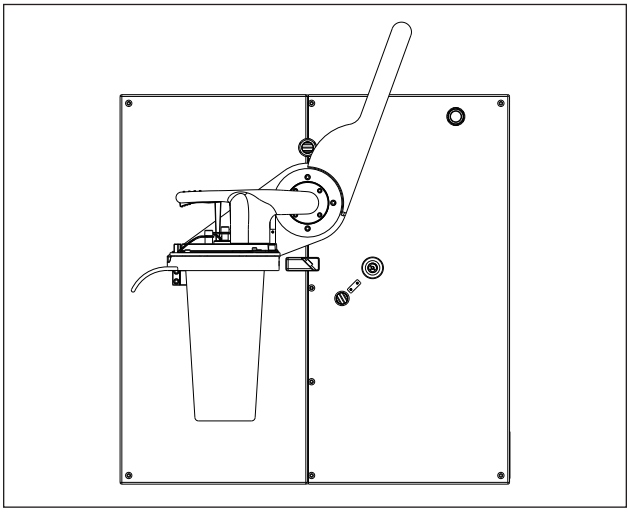

**Drain Position** - Rotate the Swingarm Handle clockwise to the Stop to activate suction and drain the Canister. Press the top-right Rinse Button, if desired, and allow the Canister to fully drain. Return Swingarm Handle back to Home Position.

**FIGURE 10: ADDITIONAL RINSING**



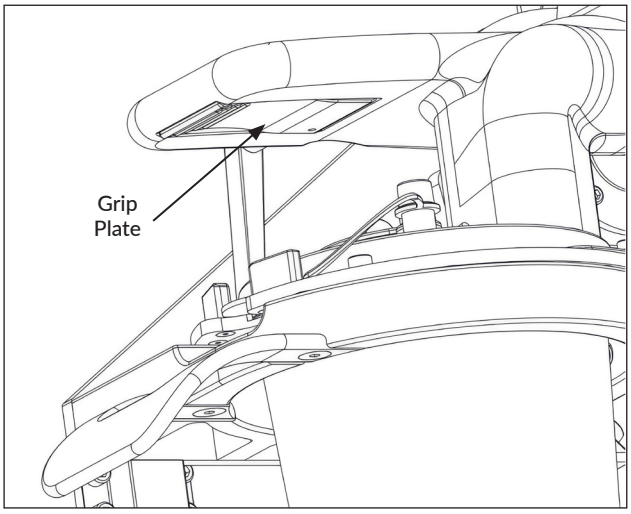

**Additional Rinsing (Optional)** - Press and hold the Main Water Valve and Rinse Buttons simultaneously to fill the Canister. Release Buttons at the desired water level. Gently rock the Swingarm, if needed, then rotate clockwise to drain.

**FIGURE 11: SWINGARM IN POSITION FOR CANISTER REMOVAL**



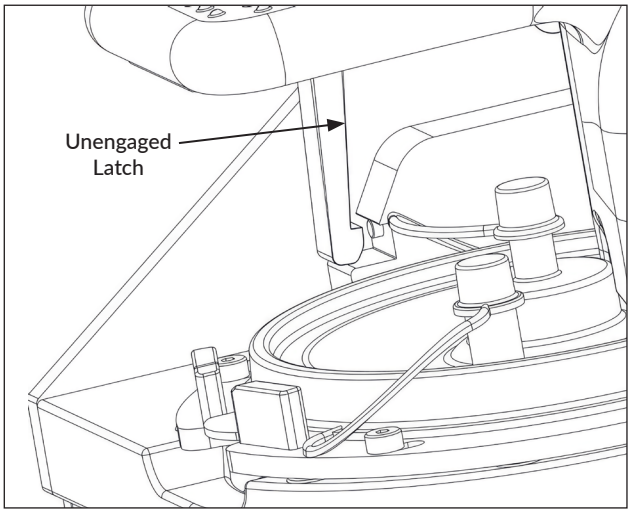
**Removal Position -** Return the Swingarm to the Home position after draining.

**FIGURE 12: GRIP PLATE**



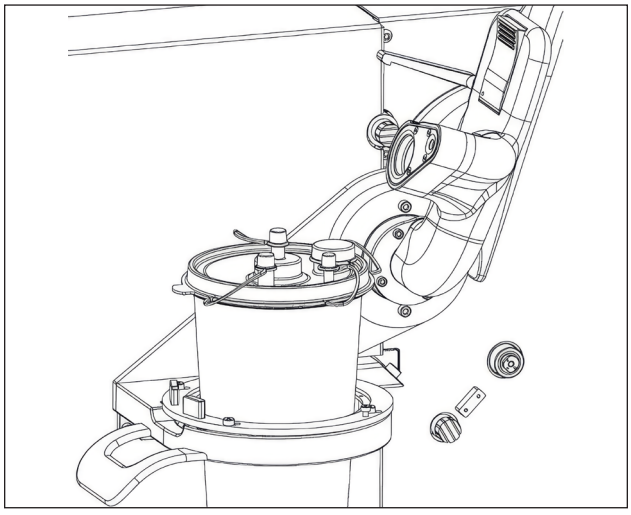

**Grip Plate** - To remove the Drainhead from the drained Canister, compress the release lever on the bottom of the Grip Plate.

**FIGURE 13: UNENGAGED LATCH**




**Disengaged Latch** - Compressing the Release Lever on the Grip Plate will disengage latching mechanism. Hold the top of the canister lid with left hand while rotating drainhead to the Home position.

**FIGURE 14: REMOVING CANISTER FROM QUICK-DRAIN**



**Canister Removal** - Recap the Accessory and Tandem Port on the Hi-Flow Canister, Push the canister up from the bottom and pull the canister out of the Receptacle. Dispose of the Canister according to facility policy.

# QUICK-DRAIN MAINTENANCE

## MAINTENANCE SCHEDULE

Quick-Drain is engineered for long-term reliability using durable materials and simple mechanical operation, reducing the need for equipment repair or replacement. Its minimal upkeep requirements further limit the use of spare parts. The system contains no electronics, user interfaces, per-use consumables or chemically-intensive cleaning needs.

Quick-Drain requires minimal maintenance to keep the unit in good condition and operating reliably for many years.

**Follow the schedule below and wear appropriate PPE whenever cleaning, inspecting, or servicing the unit.**

| FREQUENCY | AREA | CHECK | ACTION |
|---|---|---|---|
| Daily (~2-3 min) | Quick-Drain Surface | Visual check for splash residue | • Wipe down surface to remove any blood or fluid |
| | Quick-Drain Drainage | Visual check for buildup | **Daily Flush with Enzymatic Cleaner**<br>• Enzymatic cleaning solution helps loosen and reduce the accumulation of residual organic material within the drainhead and internal drainage piping.<br>• Inside an empty 3000 cc canister, prepare a solution of pH-neutral enzymatic cleaner according to the cleaner manufacturer's instructions for concentration and water temperature.<br>• Drain the entire enzymatic cleaning solution through the Quick-Drain at least once each day. Whenever practicable, perform the enzymatic cleaning after the final use of the day.<br>• DO NOT rinse the Quick-Drain with water after draining the enzymatic cleaning solution. Allow the remaining solution to contact the internal surfaces of the Drainhead and drainage piping until the next use. |
| Annually (~10-15 min) | Drainhead Port Seals | Inspect for wear or damage | • Remove the seal plate, examine the two Seals<br>• If worn, torn or twisted, replace Port Seals<br>• **Minimum replace frequency = every 12 months (refer to Appendix A)** |
| Every 5 Years (~30-40 min) | Flange O-Rings | Inspect for wear or damage | • If worn, torn or twisted, replace O-Rings<br>• **Minimum replace frequency = every 5 years (refer to Appendix B)** |
| | Hoses | Inspect for wear or damage | • Remove two front panels from the Quick-Drain<br>• Inspect all Hoses for any signs of leaking, cracking, bulging or hardening<br>• If any Hoses show signs of damage or wear, they should be replaced |
| | Tubing | Inspect for wear or damage | • If any Tubing shows signs of damage or wear, they should be replaced |

## ENZYMATIC CLEANER INFORMATION

A Quick-Drain-specific enzymatic cleaner is not required. The facility may use a pH-neutral enzymatic cleaner currently selected and routinely used by the facility for cleaning medical equipment or instruments, provided the cleaner:

- Has a neutral pH when prepared according to the cleaner manufacturer's instructions
- Is low foaming
- Is compatible with plastics, elastomers or rubber, and stainless steel or other metals

Examples of commercially available enzymatic cleaners that may meet these general criteria include:

- Ruhof Endozime®
- Ruhof Endozime® AW Plus
- Ruhof Orthozime®
- MicroCare ProEZ 2™
- Henry Schein MaxiZyme®
- Medline® Enzymatic Surgical Instrument Detergent and Presoak

An equivalent facility-selected enzymatic cleaner meeting the criteria above may also be used. Bemis does not require or endorse a specific brand of enzymatic cleaner.

Always prepare and use the selected enzymatic cleaner according to the manufacturer's instructions for concentration and water temperature.

# QUICK-DRAIN MAINTENANCE

## BASIC MAINTENANCE PLAN

The Bemis Quick-Drain is designed to be reliable, durable, and low maintenance. In most cases, routine maintenance can be performed without specialized tools, service technicians, or paid service plans.

**Bemis provides a complimentary five-year Quick-Drain Basic Maintenance Plan** with each new Quick-Drain purchase **when the product is registered at the time of installation.** The plan includes one complimentary Drainhead Seal Kit annually for five years and one O-Ring Kit in year five. Labor, service costs, and installation-related expenses are not included under the Basic Maintenance Plan.

**The Basic Maintenance Plan includes:**

- One complimentary Drainhead Seal Kit provided annually for five years
- One complimentary Flange O-Rings Kit provided five years after installation
- Annual maintenance reminders for five years
- Bemis phone support
- Maintenance and troubleshooting resources

**REPLACEMENT PARTS / ACCESSORIES LIST**

Bemis offers the following replacement parts for the Quick-Drain units. Most installed units do not require more than the basic Seals and O-Rings to be replaced, which are easily changed by Clinical Engineering staff, maintenance personnel or certified plumbers. Bemis can provide support reference resources and virtual call support, as needed. Contact Bemis Health Care for pricing on items no longer covered under warranty.

Use the link or QR code to access the **Contact Us** page. Select **Quick-Drain System Warranty Registration** and complete the required fields.

**bit.ly/4ck8dtK**

| MODEL | DESCRIPTION | PART NUMBER |
|---|---|---|
| QDHF3000 | Drainhead Port Seals Kit - High-Flow Version | QDHFSEAL KIT |
| | Drainhead Kit - For HF Sub Assembly | QDHF100 KIT |
| | O-Rings Kit - For Flange Sub Assembly | QDORING KIT |
| | Bearings Kit - For Flange Sub Assembly | QDBEARING KIT |
| | 3-Way Valve Assembly Kit | QD105 KIT |
| | Jet Pump Sub Assembly Kit | QD110 KIT |
| | Swingarm Slide Pads Kit - For Slide Plate | QD135 KIT |
| | Drainhead Grip Plate Kit - For Sub Assembly | QD140 KIT |
| | 3-Way Valve Alt Stem Assembly Kit | QD165 KIT |
| | Latch and Pin Assembly Kit - For Drainhead | QD200 KIT |
| | Spring Latch Assembly Kit | QD205 KIT |

**Additional items that may wear on the unit over time and use:**

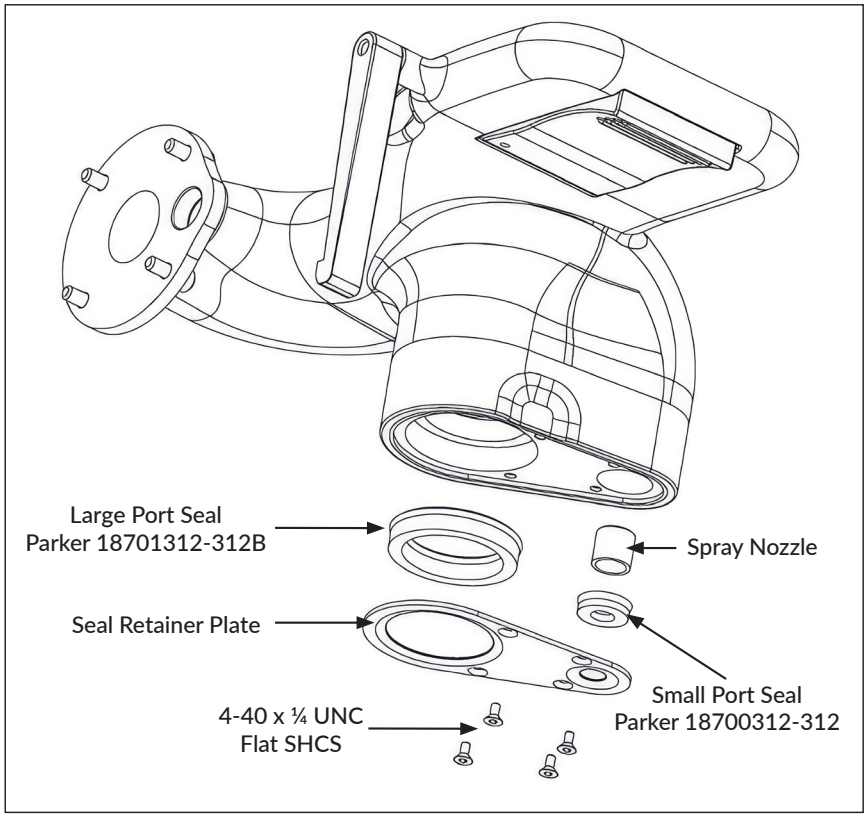
- Water Line From Brass Block - ½-inch Braided Polyurethane Tubing
- Water Lines – ½-inch Braided PVC Tubing
- Rinse Line Tubing – ¼-inch Braided PVC Tubing
- Seal Lubricant – Molycote 111 Silicone Compound (Dow Corning)

## TROUBLESHOOTING

| ISSUE | ACTION |
|---|---|
| **Drainhead Will Not Lower To Lock Down Onto The Canister Lid** | 1. Inspect the Canister Lid Ports the Drainhead attaches to for bending, damage or obstruction.<br>2. Verify the Canister is positioned correctly, with the Lid Handle aligned between the Alignment Guides.<br>3. Confirm the correct Ports are open and that removed Caps are positioned around the Cap Retainers to keep them out of the way:<br>• For Hi-Flow Canisters - Open the Tandem Port and Accessory Port caps. Ensure the Patient Port and Vacuum Port caps are closed.<br>4. Check that the metal Support Ring beneath the Canister is properly positioned and moves freely left and right. If movement is restricted, inspect for debris and clean as needed.<br>5. Inspect the Drainhead Seals that fit around the Lid Ports for damage or misalignment.<br>6. Confirm that the Drainhead and Swingarm rotate parallel to the wall. If the Assembly can move toward or away from the wall, tighten the appropriate bolts on the Drainhead and Notched Collar to eliminate excess movement. |
| **Swingarm Will Not Rotate Once The Drainhead Is Lowered** | 1. Confirm that the Latch on the side of the Drainhead is engaged with the Safety Interlock. If engagement cannot be achieved, refer to **ISSUE: Drainhead Will Not Lower To Lock Down Onto The Canister Lid.**<br>2. Rotate the Swingarm slightly counterclockwise to release any pressure holding the safety latch in place.<br>3. Verify that the Swingarm Support is installed in the correct position. |
| **Canister Is Slow To Drain Or Does Not Drain** | 1. Verify that the Drainhead is properly connected to the Canister Lid and that the Swingarm has been rotated fully to the Drain Position.<br>2. Confirm that water is being supplied to the Quick-Drain unit. Check if the water valve is in the ON position.<br>3. Inspect for a clog covering the Drain Port. Activating the rinse spray or moving the Swingarm from the Drain Position to the Home Position and back may help clear the obstruction.<br>4. If there is an ongoing problem and not just an issue with an individual Suction Canister, the Venturi may be clogged. Contact Bemis Health Care or the Quick-Drain Manual for instruction on how to open up the Venturi and inspect for blockages. |
| **Rinse Button Does Not Operate When Pressed** | 1. Confirm that water is being supplied to the Quick-Drain unit. Check if the water valve is in the ON position.<br>2. Verify that the Swingarm is rotated to the Drain Position. The Rinse Button operates only when the Main Water Valve is activated. Press and hold both buttons simultaneously to operate the rinse function.<br>3. Inspect the Rinse Valve to see if it is fouled or clogged from something in the waterline. Replace the Rinse Valve if it is clogged or if the issue continues. |
| **Fluid Leaks Or Drips From The Drainhead** | 1. Inspect the Drainhead Seals for damage, replace if damage is observed. Refer to the REPLACEMENT PARTS / ACCESSORIES LIST in this Manual for Kits available to order. Refer to IFU and/or corresponding maintenance video for instruction.<br>2. Verify that the Seal Plate securing the Drainhead Seals is not loose.<br>3. When removing the Drainhead from the Canister, pause briefly after lifting it above the Lid to allow residual fluid on the Drainhead Seals to drain back onto the Lid. Then rotate the Drainhead clockwise until it rests against the Swingarm Handle.<br>4. Ensure that enzymatic cleanser is being run through the Quick-Drain unit as recommended to keep it free from debris buildup. |
| **Canister Appears To Refill Slightly After Draining** | 1. Allow the Canister to fully drain before returning the Swingarm to the Home Position.<br>2. Verify the Swingarm is fully returned to the Home Position after draining is complete.<br>3. Inspect the Drainhead Drain for bio-organic buildup, which may affect drainage performance. Routine cleaning using a pH-neutral enzymatic cleaner, as described in the MAINTENANCE section of this IFU, helps prevent buildup and maintain optimal operation. |

# APPENDIX A

**FIGURE 15: REPLACEMENT OF HF DRAINHEAD PORT SEALS**




Refer to the Bemis QDHF3000 Drainhead Port seal replacement video:

**bit.ly/4ghqHwv**

## REPLACEMENT OF HF PORT SEALS

Maintenance Kit Part Number: **QDHFSEAL KIT**

Kit includes: Two Port Seals (one large and one small); four replacement 4-40 x 1/4 flat socket head screws; Allen wrench; and silicone grease.

**Purpose**

This instruction describes the removal and replacement of the HF Port Seals used in the Quick-Drain HF Drainhead.

**Preparation**

- Confirm the Quick-Drain unit is not in use.
- Wear appropriate PPE.
- Keep components organized for reassembly.
- Time Required: ~10-15 minutes

**Removal and Installation of HF Port Seals**

**1. Remove the Seal Retainer Plate**

A. Using the included Allen wrench, remove the four 4-40 x 1/4 flat socket head screws that secure the Seal Retainer Plate to the Drainhead.

B. Remove the Seal Retainer Plate and set it aside.

**2. Remove the Drainhead Port Seals**

A. Remove the Large Drainhead Port Seal from the Drainhead.

B. Remove the Small Drainhead Port Seal from the Drainhead.

C. Discard both seals according to policy. The Large Drainhead Port Seal and Small Drainhead Port Seal are to be replaced.

**3. Installation of new HF Drainhead Port Seals**

A. Apply a light coating of silicone grease to each new seal before installation.

B. **Confirm the seal orientation before installation. The flanged, grooved lip edge must face inward toward the Quick-Drain.**

C. Install the new Large Drainhead Port Seal into the large seal pocket.

D. Install the new Small Drainhead Port Seal into the small seal pocket.

E. Press each seal fully into its pocket. Take care not to nick, cut, stretch, or otherwise damage the seals during installation.

**4. Reinstall the Seal Retainer Plate**

A. Reinstall the Seal Retainer Plate over Drainhead Port Seals.

B. Reinstall the four 4-40 x 1/4 flat socket head screws.

C. Tighten the screws securely. Do not overtighten.

**5. Final Check**

A. Confirm both HF Port Seals are fully seated in their pockets.

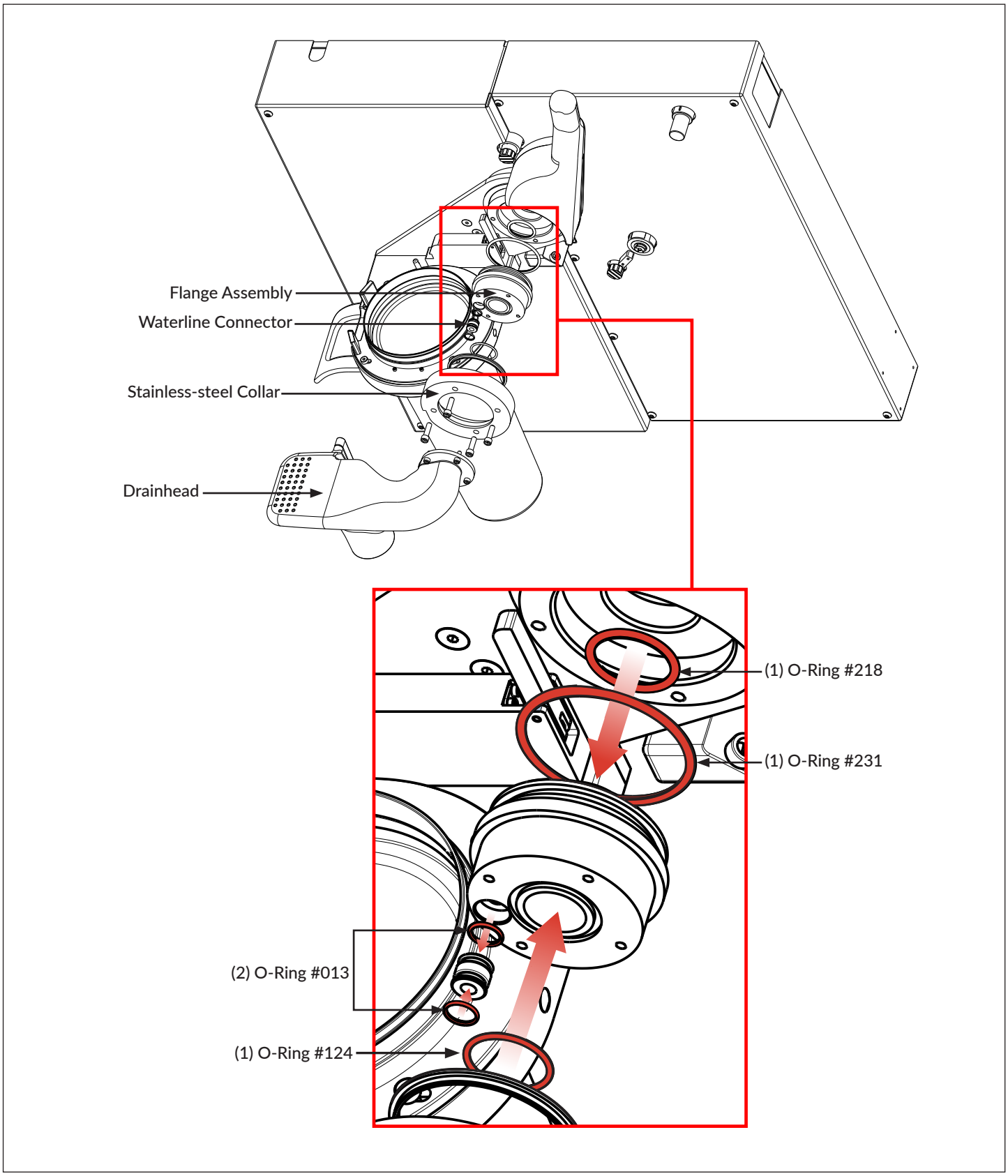
B. Confirm the Seal Retainer Plate is seated evenly.

C. Confirm all screws are secure.

D. Perform a test drainage before returning the unit to service.

# APPENDIX B

**FIGURE 16: REPLACEMENT OF FLANGE ASSEMBLY O-RINGS**



# APPENDIX B

## REPLACEMENT OF O-RINGS ON QUICK-DRAIN FLANGE ASSEMBLY

Maintenance Kit Part Number: **QDORING KIT**

Kit includes: 5 total O-rings (2) #013, (1) #124, (1) #218, (1) #231, and silicone grease.

**Purpose**
This instruction describes the removal and replacement of the O-rings used on the Quick-Drain Flange Assembly.

**Preparation**
- Shut off the water supply to the Quick-Drain Unit.
- Wear appropriate PPE.
- Keep all removed screws and components organized for reassembly.
- **Refer to Figure 16.**
- Time required: ~30-40 minutes

**Removing the Drainhead and Stainless-Steel Collar**

**1. Remove the Drainhead**
- A. Using a 5/32 inch Allen wrench, remove the four 10-24 socket head cap screws that secure the Drainhead to the Quick-Drain Unit.
- B. Carefully support the Drainhead while removing the screws to prevent it from dropping.
- C. Pull the blue Drainhead away from the Quick-Drain Unit and set it aside.

**2. Remove the Stainless-Steel Collar**
- A. Using a 3/16 inch Allen wrench, remove the four 1/4-20 socket head cap screws that secure the Stainless-Steel Collar to the Quick-Drain Unit.
- B. Remove the Stainless-Steel Collar and set it aside.

**3. Remove the O-Rings from the Flange Assembly**
- A. With the Stainless-Steel Collar removed, pull the entire Flange Assembly out of the Quick-Drain Unit.
- B. On the Drainhead side of the Flange Assembly, remove one #124 O-ring.
- C. Remove the two #013 O-rings from the front and back of the Waterline Connector.
- D. The Waterline Connector can be pulled out of the Flange Assembly to access both #013 O-rings. Set the Waterline Connector aside.
- E. On the back side of the Flange Assembly, remove one #218 O-ring and one #231 O-ring.

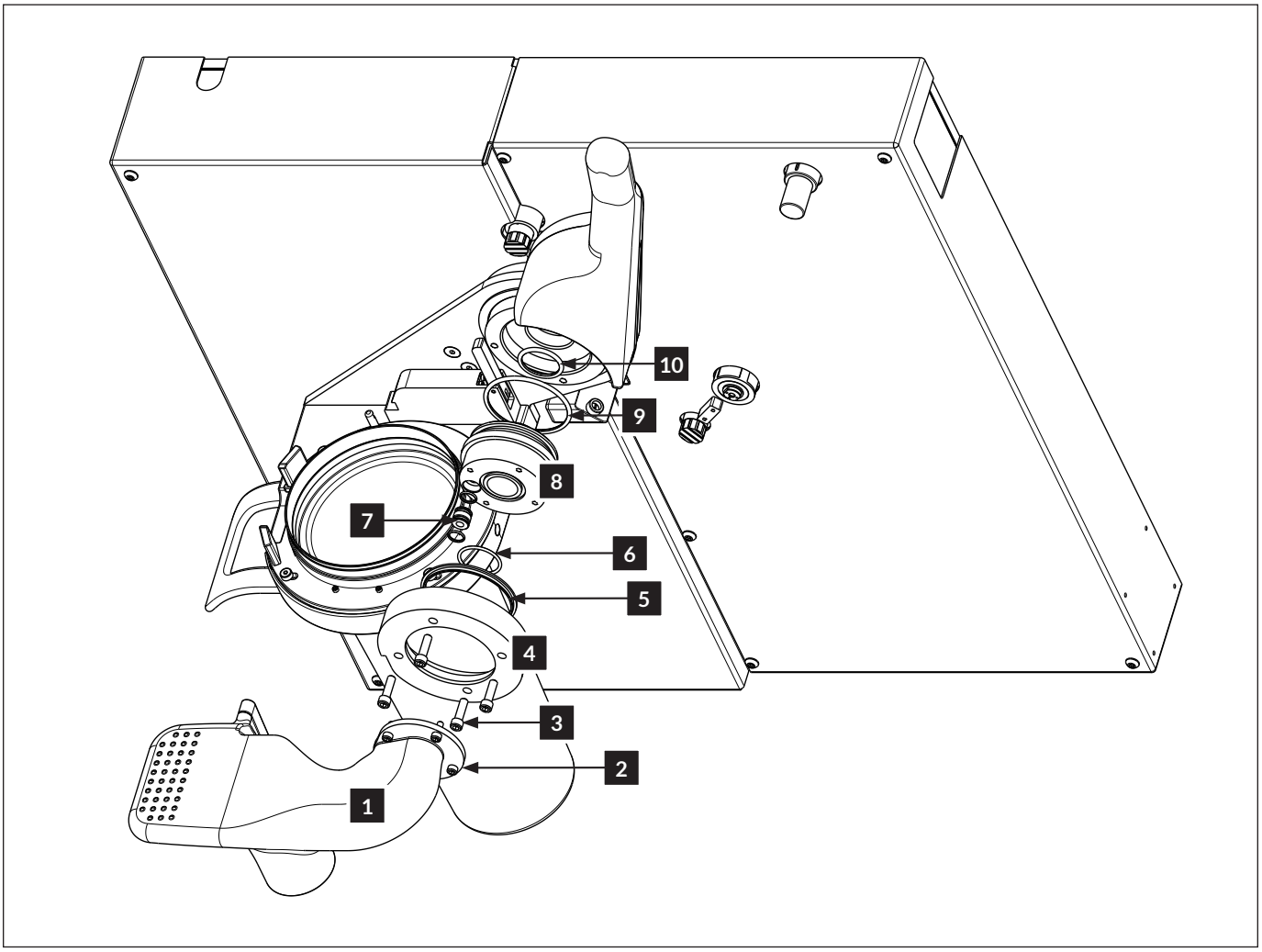
**4. Replace the O-Rings**
- A. Apply the included silicone grease to all five new O-rings before installation.
- B. When installing the O-rings, take care not to nick, cut, stretch, or otherwise damage them.
- C. Replace the two #013 O-rings on the front and back of the Waterline Connector.
- D. Reinstall the Waterline Connector into the Flange Assembly.
- E. Replace one #124 O-ring on the Drainhead side of the Flange Assembly.
- F. Replace one #218 O-ring on the back side of the Flange Assembly.
- G. Replace one #231 O-ring on the back side of the Flange Assembly.
- H. Reinstall the Flange Assembly into the Quick-Drain Unit with the Waterline Connector facing outward.

**5. Reinstall the Stainless-Steel Collar and Drainhead**
- A. Reinstall the Stainless-Steel Collar over the Flange Assembly.
- B. Confirm the notch in the Stainless-Steel Collar is positioned at the 9 o'clock position.
- C. Reinstall the four 1/4-20 socket head cap screws into the Stainless-Steel Collar and tighten securely.
- D. Reinstall the Drainhead by aligning it with the Waterline Connector.
- E. Start all four Drainhead 10-24 socket head cap screws by hand before tightening any screw completely.
- F. Tighten one cap screw approximately 3/4 of the way down. Then tighten the diagonally opposite cap screw fully to help seat the connector evenly.
- G. Tighten the remaining cap screws securely with the Allen wrench.

**6. Final Check**
- A. Confirm the Drainhead and Stainless-Steel Collar are seated evenly and all screws are secure.
- B. Confirm the Drainhead can be rotated down and up.
- C. Restore the water supply.
- D. Check for any visible leakage and perform a test drainage before returning the unit to service.

# APPENDIX C

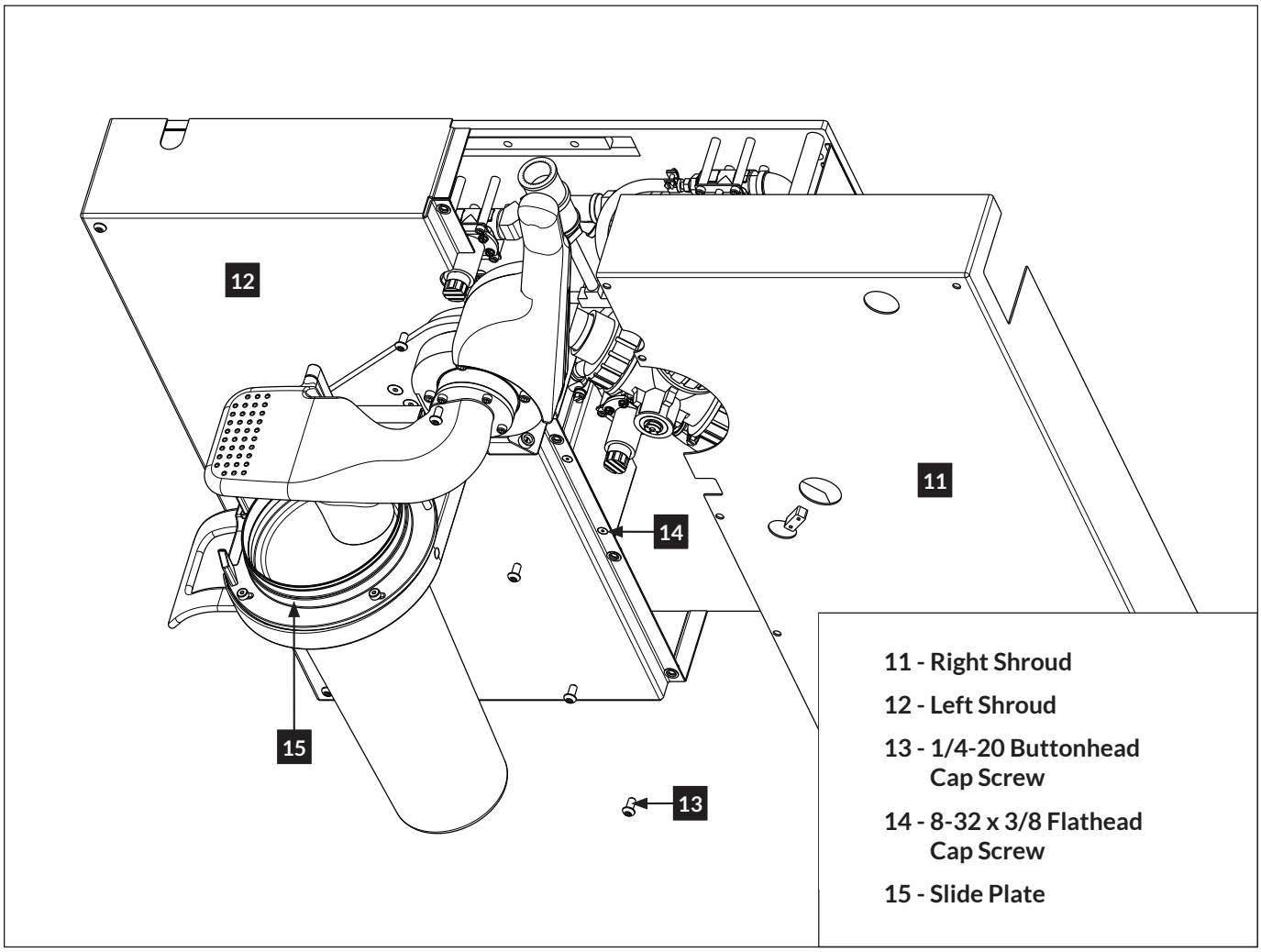
**FIGURE 17: DRAINHEAD AND FLANGE SUB-ASSEMBLY COMPONENTS**




1 - Drainhead
2 - 10-24 x 1/2 socket head cap screw
3 - 1/4-20 Cap Screw
4 - Stainless Steel Collar
5 - Flanged Bearing (2.826 inches)
6 - O-Ring (#124)
7 - Waterline Connector (with #013 O-Rings)
8 - Flange Assembly
9 - O-Ring (#231)
10 - O-Ring (#218)

# APPENDIX D

**FIGURE 18: REMOVAL OF RIGHT STAINLESS STEEL SHROUD**



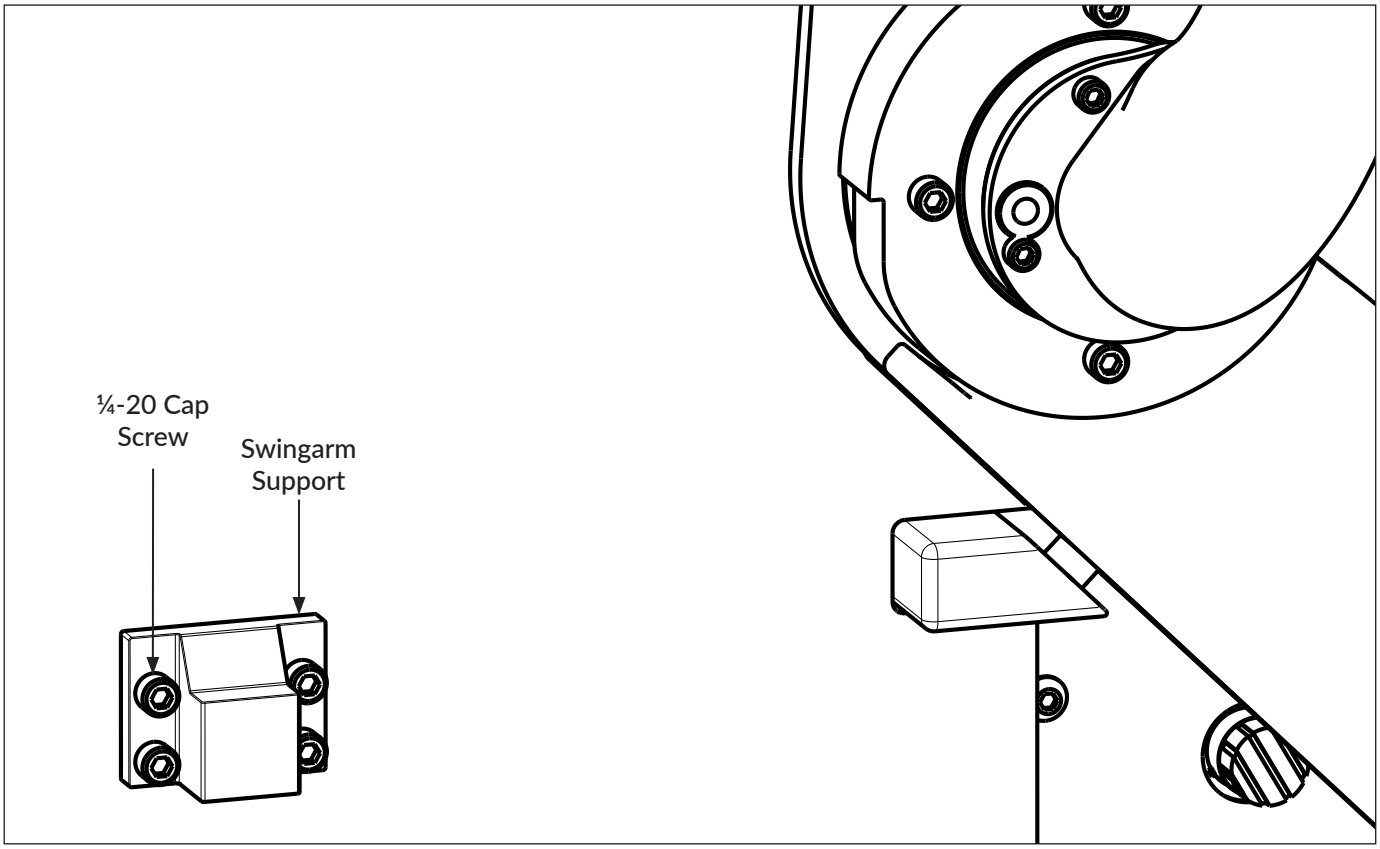

**RIGHT SHROUD REMOVAL**

**NOTE**: For installation, reverse removal sequence shown above.

1. Remove the seven 1/4-20 Buttonhead Socket Cap Screw around the perimeter of the right Shroud.
2. The Shroud can then be pulled off of the Quick-Drain Unit.

## APPENDIX E

**FIGURE 19: REMOVAL OF LEFT STAINLESS STEEL SHROUD**




**LEFT SHROUD REMOVAL**

1. To remove the Left Shroud, the Right Shroud must be removed first. **Refer to Appendix D.**
2. **Remove the four ¼-20 Socket Cap Screws that hold the Swingarm Support in place.**
3. Remove the Swingarm Support.
4. Remove the two ¼-20 Buttonhead Socket Cap Screws that are on the left side of the Shroud.
5. Remove the two 8-32 x ⅜ Flathead Socket Cap Screws that are on the right side of the left Shroud.
6. Slide the left shroud off toward the left side of the unit.

For additional product information, visit **BemisHealthCare.com/quick-drain**



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