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00313

Generic Water Heater Drain Valve Model 00313 User Manual

3/4 Inch Full Port Brass Straight Drain Valve

1. Product Overview

The Generic Water Heater Drain Valve Model 00313 is a 3/4 inch brass full port straight valve designed for efficient water heater maintenance. It features a 3/4 inch straight-line opening and a bottom-loaded, blowout-proof stem. Constructed from forged brass, this valve is temperature rated to 220°F and is manufactured in Italy.

Key features include:

- Easy installation, often without the need to drain the entire tank.
- Designed for rapid removal of sediment, including larger particles.
- Contributes to extending the lifespan of water heaters.
- Helps eliminate noise, popping, and banging in gas water heaters.
- Improves water heater recovery and first-hour rating.
- Features triple Viton o-rings in the stem, a hard chrome-plated brass ball, and two virgin Teflon seats.
- Forged brass body for enhanced durability and integrity.

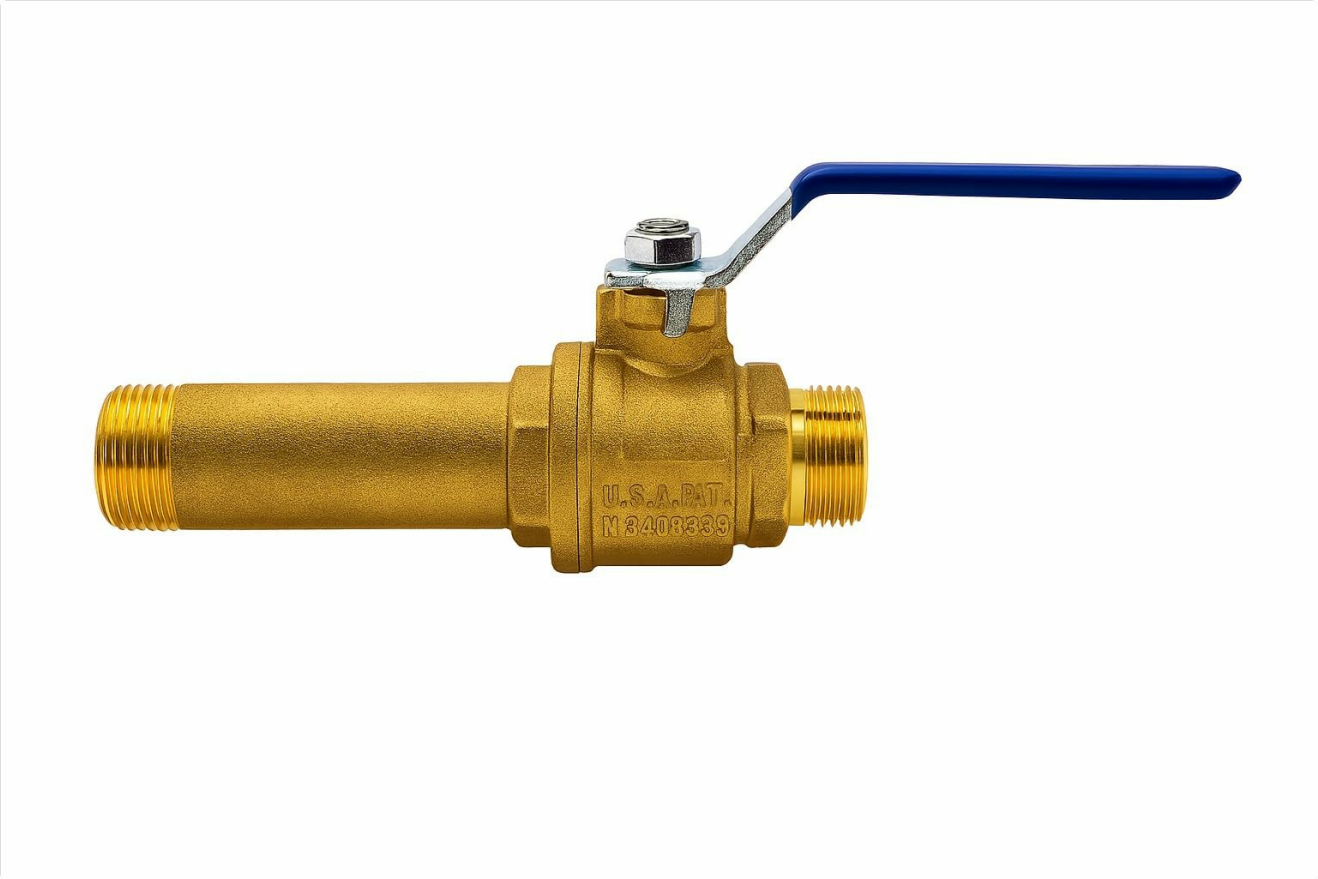


Figure 1: Side view of the Generic Water Heater Drain Valve.

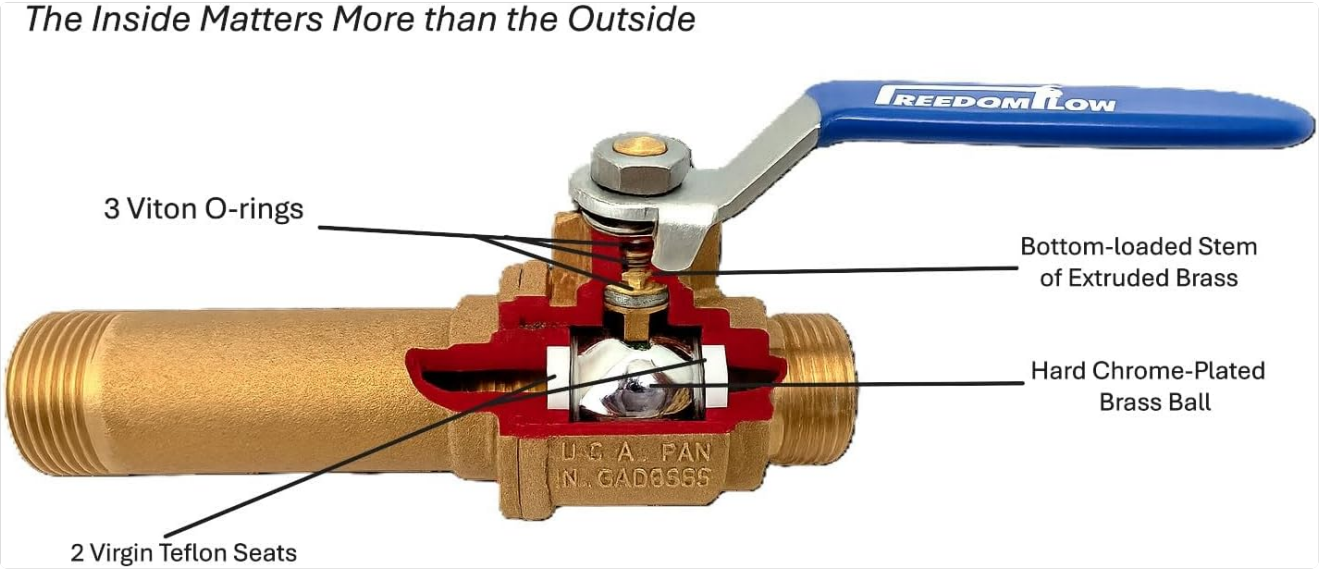


Figure 2: Internal components of the drain valve, including Viton O-rings, bottom-loaded stem, hard chrome-plated brass ball, and Teflon seats.

2. Installation Instructions

Safety First: Before beginning any plumbing work, ensure the water heater's power supply (electricity or gas) is turned off and the cold water supply valve to the water heater is closed. Allow the water in the tank to cool to a safe temperature.

1. **Prepare the Area:** Place a bucket or drain pan beneath the existing drain valve to catch any residual water. Have towels ready for spills.
2. **Remove Existing Valve:** Using an appropriate wrench, carefully unscrew the old drain valve from the water

heater. Be prepared for some water to escape.

3. **Prepare New Valve:** Apply PTFE (Teflon) tape or pipe thread sealant to the male threads of the new Generic drain valve. Wrap the tape clockwise around the threads 3-5 times.
4. **Install New Valve:** Hand-tighten the new drain valve into the water heater's drain opening. Ensure it is straight and securely threaded. Then, use a wrench to tighten it an additional 1 to 2 turns until snug. Do not overtighten.
5. **Connect Hose (Optional):** If you plan to drain the tank immediately or regularly, connect a garden hose to the Male Garden Hose Thread (MGHT) outlet of the new valve and direct it to a suitable drain.
6. **Restore Water and Power:** Slowly open the cold water supply valve to the water heater. Check for leaks around the new valve. Once confirmed leak-free, restore power to the water heater.



Figure 3: Example of a drain valve connection to a water heater.

3. Operation

The Generic Water Heater Drain Valve operates with a simple quarter-turn ball valve mechanism. The handle

indicates the valve's position:

- **Open Position:** When the handle is parallel to the valve body (in line with the water flow), the valve is open, allowing water and sediment to drain.
- **Closed Position:** When the handle is perpendicular to the valve body (across the water flow), the valve is closed, preventing water from draining.

To operate, simply rotate the handle 90 degrees to switch between the open and closed positions. The full port design ensures maximum flow for efficient draining.

4. Maintenance and Sediment Flushing

Regular flushing of your water heater helps remove sediment buildup, which can improve efficiency, extend the life of the heater, and reduce noise. It is recommended to flush your water heater annually, or more frequently in areas with hard water.

1. **Turn Off Power and Water:** Turn off the power supply (gas or electric) to the water heater. Close the cold water inlet valve to the water heater.
2. **Open Hot Water Faucet:** Open a hot water faucet in your home (e.g., in a bathtub or sink) to relieve pressure in the tank and prevent a vacuum from forming during drainage. This will also help the tank drain faster.
3. **Connect Drain Hose:** Attach a garden hose to the Male Garden Hose Thread (MGHT) outlet of the drain valve. Direct the other end of the hose to a suitable drain location (e.g., floor drain, utility sink, or outdoors).
4. **Open Drain Valve:** Slowly open the Generic drain valve by rotating the handle parallel to the valve body. Allow the water to drain completely. You may see discolored water or sediment initially.
5. **Flush Sediment (Optional):** For a more thorough flush, once the tank is mostly empty, briefly open the cold water inlet valve for a few seconds while the drain valve is still open. This will stir up and flush out more sediment. Repeat this process a few times until the water running from the hose is clear.
6. **Close Valves:** Close the drain valve and remove the garden hose. Close the hot water faucet you opened earlier.
7. **Refill Tank:** Slowly open the cold water inlet valve to the water heater. Allow the tank to fill completely. Once water flows steadily from a hot water faucet, the tank is full.
8. **Restore Power:** Check for any leaks around the drain valve. Once confirmed, restore power to the water heater.



Figure 4: The full port design allows for efficient sediment flushing.

5. Troubleshooting

- **Leak at Valve Connection:**
  If water leaks from where the valve connects to the water heater, ensure the valve is tightened properly and that sufficient PTFE tape or pipe thread sealant was applied to the threads during installation. If the leak persists, turn off water and power, remove the valve, reapply sealant, and reinstall.
- **Valve Not Draining Properly:**
  Ensure the valve handle is fully in the open position. If drainage is slow or blocked, sediment may be obstructing the flow. Try briefly opening the cold water inlet valve with the drain valve open to dislodge sediment. If the issue persists, the valve may need to be removed and inspected for blockages.
- **Water Heater Still Noisy After Flushing:**
  While flushing significantly reduces noise caused by sediment, some noise may persist if sediment is heavily caked or if other issues are present. Ensure thorough flushing. If noise continues, consult a qualified plumber.

6. Product Specifications

Specification	Detail
Brand	Generic
Model Number	00313
Material	Brass
Exterior Finish	Brass
Inlet Connection Size	3/4 inches
Inlet Connection Type	National Pipe Tapered (NPT)
Outlet Connection Size	3/4 inches
Outlet Connection Type	Male Garden Hose Thread (MGHT)
Maximum Operating Pressure	500 psi
Temperature Rating	Up to 220°F
Number of Ports	2
Valve Type	Ball Valve
Item Dimensions (L x W x H)	7.5 x 3 x 1.75 inches
Item Weight	1.1 pounds
Manufacturer	Freedom Flow
Origin	Made in Italy

7. Warranty and Support

Warranty information for the Generic Water Heater Drain Valve Model 00313 is typically included with the product packaging or available directly from the manufacturer, Freedom Flow. Please refer to the documentation provided at the time of purchase for specific warranty terms and conditions.

For technical support or inquiries, please contact the manufacturer or your retailer. Keep your purchase receipt and model number (00313) handy when seeking support.

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