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Midline Valve 6834

Midline Valve 6834 Boiler Drain Valve Instruction Manual

Model: 6834 | Brand: Midline Valve

1. Introduction

This manual provides instructions for the installation, operation, and maintenance of the Midline Valve 6834 Boiler Drain Valve. This valve is designed for reliable flow control and drainage in commercial and residential plumbing and heating systems, including boilers and water heaters. It features a lead-free brass construction with a multi-turn valve and a stuffing box.



Image 1.1: Midline Valve 6834 Boiler Drain Valve. This image shows the brass valve with a black multi-turn handle, a 3/4 inch Male Iron Pipe (MIP) threaded inlet at the bottom, and a 3/4 inch Male Hose Thread (MHT) outlet on the side.

2. Safety Information

- Always turn off the main water supply before attempting any installation or maintenance on plumbing systems.
- Wear appropriate personal protective equipment, such as safety glasses and gloves.
- Ensure all connections are properly sealed to prevent leaks.
- If you are unsure about any part of the installation process, consult a qualified plumbing professional.
- Do not overtighten connections, as this can damage threads or components.

3. Product Overview and Components

The Midline Valve 6834 is constructed from lead-free brass, ensuring durability and compliance with safety standards. It

features a multi-turn wheel handle for precise flow control and a stuffing box assembly for sealing the stem.



Image 3.1: Exploded view of the boiler drain valve showing internal components. The diagram illustrates the valve's construction and identifies key parts.

Component List:

#	Part Name	Material
1	Bonnet	Brass C85700
2	Body	Brass C85700
3	Handle	Cast Iron ASTM A48 CLASS 35
4	Stem	Brass C85700
5	Packing nut	Brass C36000

#	Part Name	Material
6	Gland Packing	NBR
7	Seat	EPDM Rubber
8	Seat screw	Brass C27000
9	Handle nut	Steel Plated AISI-1010

4. Setup and Installation

The Midline Valve 6834 is designed for easy connection to plumbing systems. It features a 3/4 inch Male Iron Pipe (MIP) inlet for connection to the boiler or water heater and a 3/4 inch Male Hose Thread (MHT) outlet for attaching a standard garden hose for drainage.

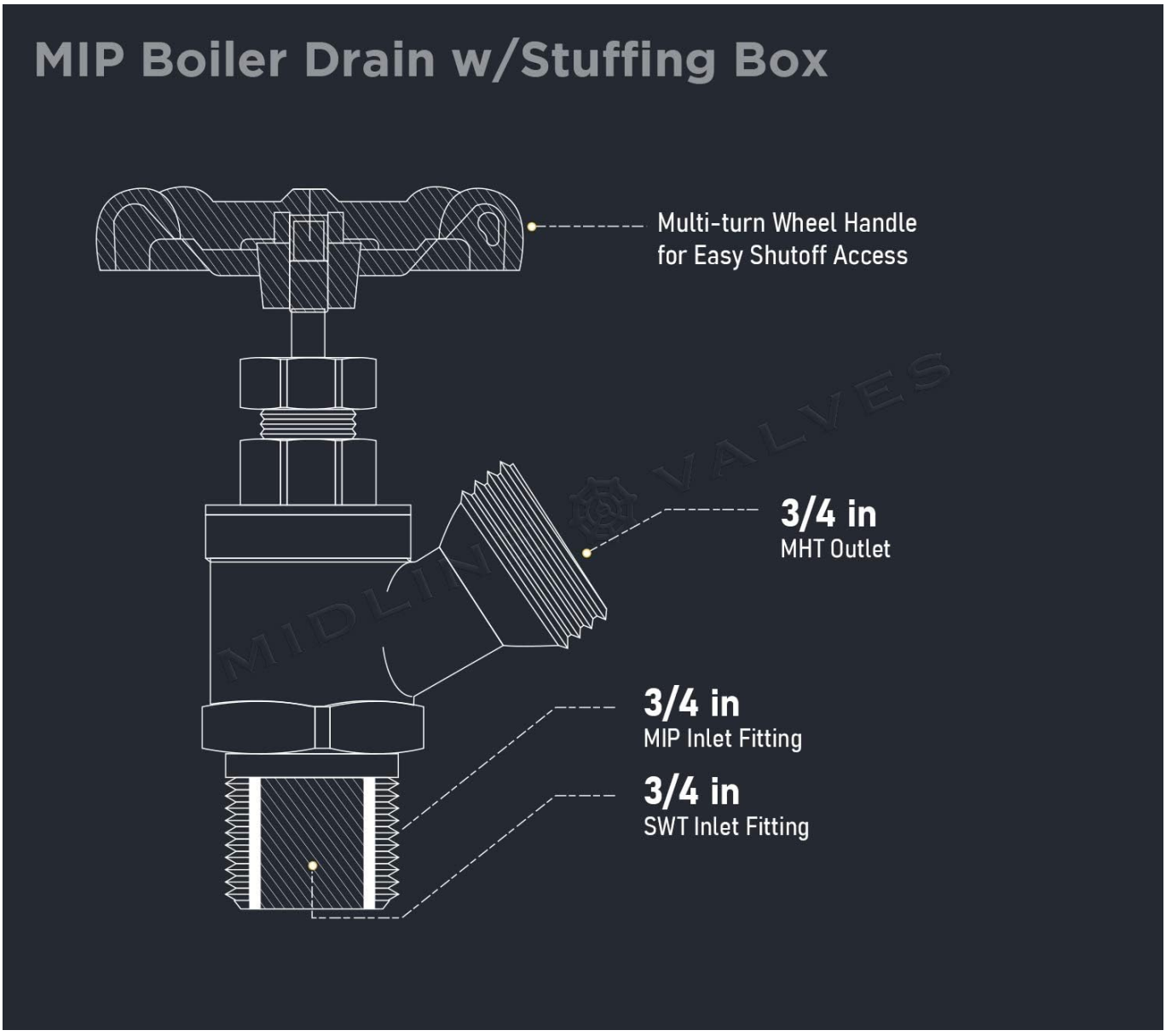


Image 4.1: Connection diagram illustrating the 3/4 inch MIP inlet fitting and 3/4 inch MHT outlet.

Installation Steps:

1. **Prepare the Connection Point:** Ensure the boiler or water heater's drain port is clean and free of debris.

2. **Apply Thread Sealant:** Apply appropriate thread sealant (e.g., PTFE tape or pipe dope) to the 3/4 inch MIP inlet threads of the valve.
3. **Attach the Valve:** Thread the valve's MIP inlet into the boiler or water heater's drain port. Hand-tighten first, then use a wrench to tighten securely, ensuring the valve is oriented correctly for hose attachment. Do not overtighten.
4. **Check for Leaks:** Slowly turn on the water supply and inspect all connections for any signs of leakage. Tighten connections slightly if necessary.

5. Operating Instructions

The Midline Valve 6834 is a multi-turn valve, meaning it requires several rotations of the handle to fully open or close the flow.

To Open the Valve:

Turn the black wheel handle counter-clockwise until the desired flow rate is achieved or the valve is fully open. A fully open valve will allow maximum drainage.

To Close the Valve:

Turn the black wheel handle clockwise until the valve is fully closed and water flow stops. Do not force the handle once it reaches its closed position to avoid damage.
When draining a boiler or water heater, ensure a hose is securely attached to the 3/4 inch MHT outlet and directed to a suitable drainage area.

6. Maintenance

Regular maintenance helps ensure the longevity and proper function of your boiler drain valve.

- **Periodic Inspection:** Periodically inspect the valve for any signs of leaks, corrosion, or damage.
- **Stuffing Box:** If minor leaks occur around the valve stem, the packing nut (component #5 in Image 3.1) may need to be tightened slightly. Use a wrench to turn the packing nut clockwise a small amount (e.g., 1/8 to 1/4 turn) until the leak stops. Do not overtighten. If tightening does not stop the leak, the gland packing (component #6) may need replacement by a qualified professional.
- **Operation:** Operate the valve periodically (e.g., once a year) by opening and closing it fully to prevent mineral buildup and ensure smooth operation.
- **Cleaning:** Clean the exterior of the valve with a mild cleaner and soft cloth as needed. Avoid abrasive cleaners.

7. Troubleshooting

Issue: Water leaking from around the valve stem.

- **Possible Cause:** Loose packing nut or worn gland packing.
- **Solution:** Gently tighten the packing nut (component #5) clockwise. If the leak persists, the gland packing may need replacement. Consult a plumbing professional.

Issue: Water leaking from the inlet or outlet connections.

- **Possible Cause:** Improperly sealed or loose threaded connections.
- **Solution:** Turn off the water supply. Disconnect the leaking connection, reapply thread sealant, and re-tighten. Ensure not to overtighten.

Issue: Valve is difficult to turn or stuck.

- **Possible Cause:** Mineral buildup or corrosion.
- **Solution:** Apply a penetrating lubricant to the stem and try to gently work the handle back and forth. If the valve remains stuck, it may need replacement.

8. Specifications

Specification	Detail
Model Number	6834
Material	Brass
Inlet Connection Size	3/4 inch MIP (Male Iron Pipe)
Outlet Connection Size	3/4 inch MHT (Male Hose Thread)
Dimensions (L x W x H)	3 x 1 x 2 inches
Item Weight	2.56 ounces
Working Pressure	125 WOG (Water, Oil, Gas)
Maximum Temperature	180°F
Certifications	UPC, NSF, CSA



Image 8.1: Illustration highlighting the lead-free compliance of the valve, indicated by NSF 61-G and UPC approvals.

9. Warranty Information

No specific warranty information is provided with this product in the available documentation. Please refer to the retailer's return policy or contact Midline Valve directly for warranty details.

10. Support

For technical assistance, installation guidance, or further inquiries regarding the Midline Valve 6834 Boiler Drain Valve, please contact your retailer or a qualified plumbing professional. Always ensure that any work on plumbing systems is performed by competent individuals.

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