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Midline Valve S3559

Midline Valve S3559 Full Port Ball Valve & Purge Station User Manual

Model: S3559

1. Product Overview

The Midline Valve S3559 is a heavy-duty forged brass full port ball valve combined with a purge station and boiler drain, designed for efficient water system management. It is ideal for residential and commercial applications, offering reliable performance and ease of use for tasks such as winterizing plumbing systems.



Figure 1: Front view of the Midline Valve S3559, showing the main ball valve with a yellow handle and the integrated purge station with a red butterfly handle.

2. Key Features

- **Full Port Design:** Ensures maximum flow capacity and minimal pressure drop.
- **Integrated Purge Station:** Facilitates easy draining and winterization of water systems with a simple 1/4 turn action.
- **Durable Construction:** Made from heavy-duty forged brass, offering dezincification resistance and corrosion resistance for long-lasting performance.
- **Quality Components:** Features a chrome-plated brass ball with PTFE seats, a blowout-proof stem design, and an adjustable packing nut for secure, leak-free operation.
- **Secure Connections:** Designed with sweat x sweat connections that conform to Federal Spec WWV-35C.



Figure 2: Diagram highlighting key features and benefits of the Midline Valve S3559, including its function, universal fit, superior quality, and security certifications.

3. Specifications

Attribute	Detail
Model Number	S3559
Material	Heavy Duty Forged Brass
Valve Type	Full Port Ball Valve with Purge Station
Connection Type	3/4 in. Sweat Connections
Ball Material	Chrome Plated Brass
Seat Material	PTFE

Attribute	Detail
Dimensions (L x W x H)	Approximately 2 x 1 x 1 inches
Item Weight	Approximately 8 ounces
Compliance	Conforms to Federal Spec WWV-35C

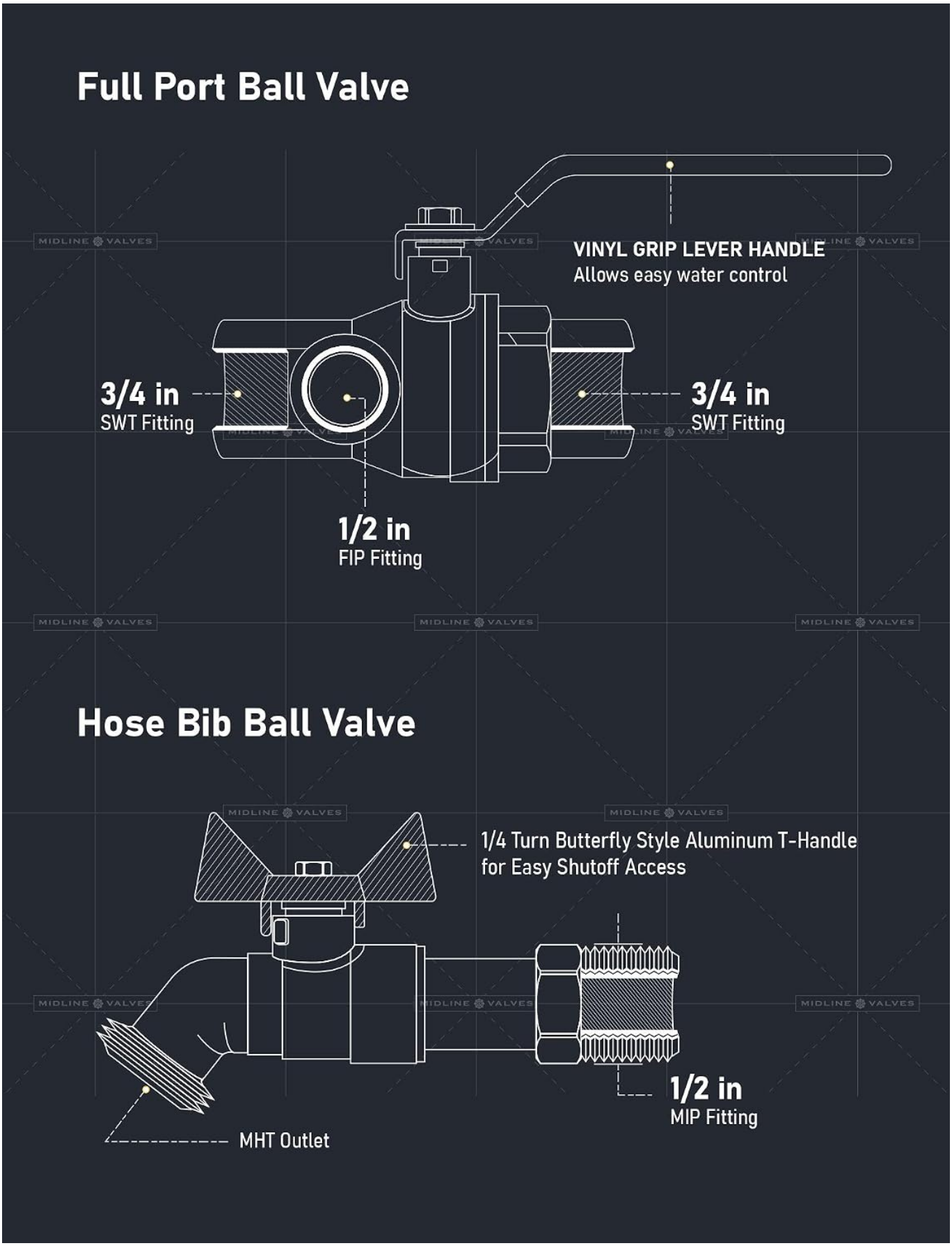


Figure 3: Technical drawing illustrating the dimensions and components of the full port ball valve and the hose bib ball valve (purge station) within the S3559 assembly.

4. Installation Instructions

Installation should be performed by a qualified professional in accordance with local plumbing codes and regulations.

Ensure the system is depressurized and drained before beginning installation.

1. **Prepare Connections:** Ensure the 3/4 inch sweat connections on your piping are clean, deburred, and properly sized for the valve.
2. **Apply Flux:** Apply a thin, even coat of appropriate flux to both the valve's sweat connections and the pipe ends.
3. **Position Valve:** Place the valve onto the pipe ends, ensuring it is properly aligned and fully seated. The main ball valve handle should be in a position that allows for easy operation and clearance.
4. **Solder Connections:** Using a suitable heat source (e.g., propane torch), heat the joint evenly until the flux bubbles. Apply lead-free solder to the joint, allowing capillary action to draw the solder into the connection. Ensure a complete seal.
5. **Cool and Clean:** Allow the joints to cool naturally. Do not quench with water. Once cool, wipe away any excess flux residue.
6. **Test for Leaks:** Slowly repressurize the system and carefully inspect all connections for any signs of leaks.

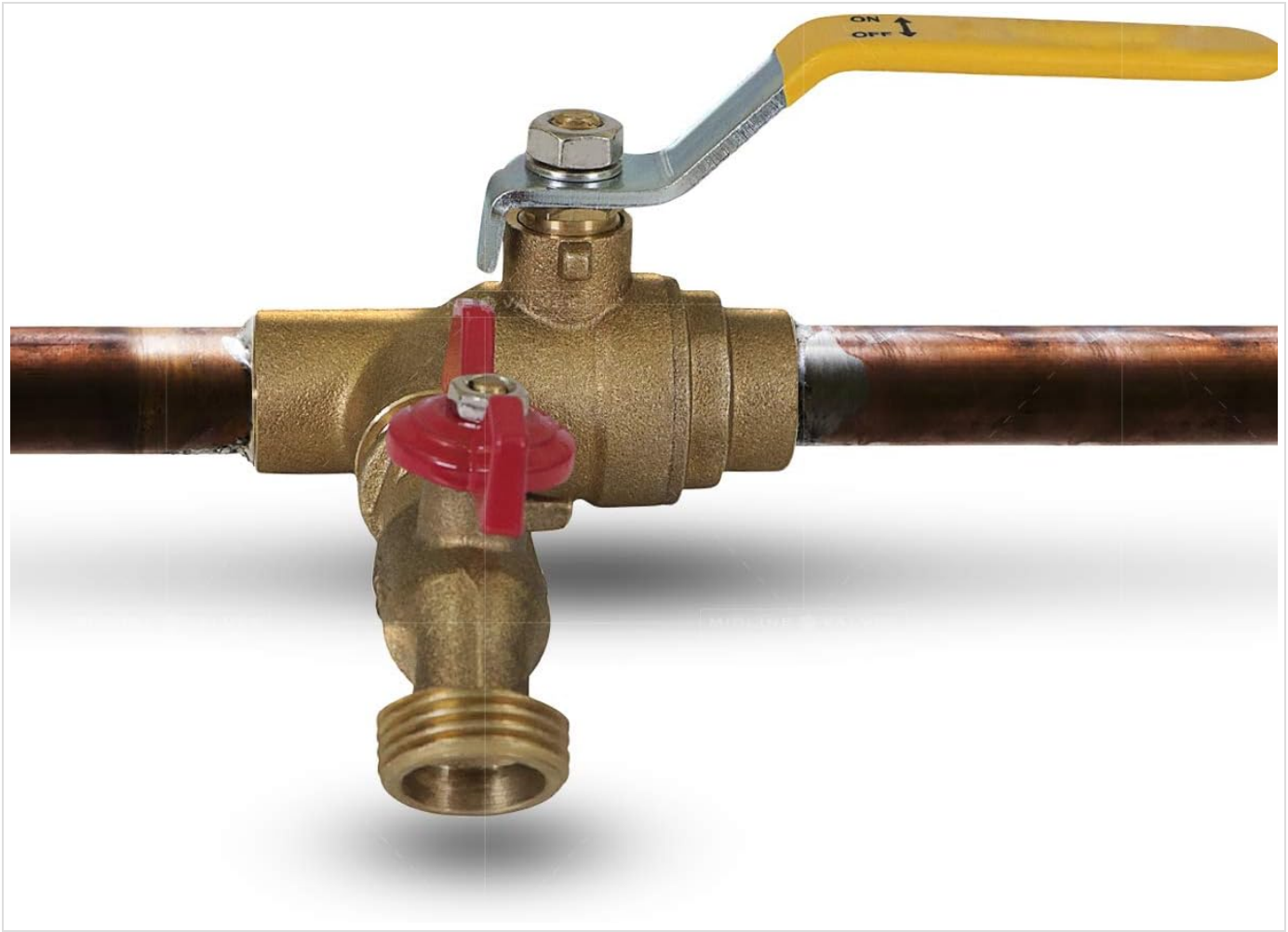


Figure 4: The Midline Valve S3559 shown installed on a copper pipe, demonstrating its typical orientation and connection points.

5. Operating Instructions

The Midline Valve S3559 features two distinct control points: the main full port ball valve and the integrated purge station (boiler drain).

5.1. Main Ball Valve Operation

- **To Open (Flow ON):** Rotate the yellow handle 90 degrees so it is parallel with the pipe. This allows full flow through the valve.

- **To Close (Flow OFF):** Rotate the yellow handle 90 degrees so it is perpendicular to the pipe. This stops the flow through the valve.

5.2. Purge Station (Boiler Drain) Operation

The purge station is designed for draining and winterizing your water system.

- **To Open (Drain):** Rotate the red butterfly handle 90 degrees. This will open the drain port. Ensure a hose is connected to the threaded outlet if directing water away.
- **To Close:** Rotate the red butterfly handle 90 degrees back to its original position. This will close the drain port.

Note: *Always ensure the main water supply to the system is shut off before performing any draining or maintenance procedures.*

6. Maintenance

The Midline Valve S3559 is designed for low maintenance. Regular inspection is recommended to ensure optimal performance.

- **Visual Inspection:** Periodically check the valve and connections for any signs of leaks, corrosion, or damage.
- **Operation Check:** Operate both the main ball valve and the purge station periodically to ensure smooth movement and proper sealing.
- **Packing Nut Adjustment:** If minor leaks occur around the stem of the main ball valve, the packing nut can be gently tightened with a wrench. Do not overtighten.
- **Cleaning:** Keep the exterior of the valve clean. Avoid using harsh chemicals that could damage the brass finish.

7. Troubleshooting

Problem	Possible Cause	Solution
Leak at valve body/pipe connection	Improper soldering during installation; damaged pipe or valve connection.	Depressurize system. Re-solder connection or replace valve/pipe section if damaged. Consult a professional plumber.
Leak around valve stem (main ball valve)	Loose packing nut; worn packing.	Gently tighten the packing nut. If leak persists, packing may need replacement (professional service recommended).
Valve not fully closing/leaking through	Debris lodged in valve; worn ball or seats.	Attempt to flush the valve by cycling it open and closed several times. If problem persists, valve may need replacement.
Purge station not draining	Valve not fully open; blockage in drain line; system not properly vented.	Ensure handle is fully open. Check for blockages in the hose or drain. Ensure there is an air vent in the system to allow water to drain.

Warning: *For any significant leaks or persistent issues, it is highly recommended to consult a licensed plumber. Do not attempt repairs that are beyond your skill level, as this could lead to property damage or injury.*

8. Warranty and Support

For information regarding warranty coverage, technical support, or replacement parts for your Midline Valve S3559,

please refer to the official Midline Valve website or contact their customer service directly.
Midline Valve Official Website: Visit Midline Valve Store on Amazon
Please have your model number (S3559) and purchase information ready when contacting support.

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