Hancock 7230W-3-0219

Hancock 7230W-3-0219 Series 7000 Globe Valve Instruction Manual

Model: 7230W-3-0219

Introduction

This manual provides essential information for the proper installation, operation, and maintenance of the Hancock 7230W-3-0219 Series 7000 Steel Socket Weld 1-1/2IN Globe Valve. Adherence to these instructions will ensure safe and efficient performance of the valve. This valve is designed for industrial applications requiring precise flow control and shut-off capabilities.

Safety Information

Always observe standard industrial safety practices when handling, installing, or maintaining this valve. Failure to do so may result in injury or damage to equipment.

- Ensure the system is depressurized and drained before installation or maintenance.
- Wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and protective clothing.
- Handle the valve with care due to its weight (approximately 56.4 pounds). Use proper lifting techniques or equipment.
- Installation should only be performed by qualified personnel familiar with socket welding procedures and industrial piping systems.
- Do not exceed the specified pressure and temperature ratings for the valve.

Product Overview

The Hancock 7230W-3-0219 Series 7000 Globe Valve is a manual, steel valve designed for socket weld connections. It features a robust construction suitable for demanding industrial environments.

Figure 1: Overall view of the Hancock Series 7000 Globe Valve, showing the manual handle and valve body.

Key Features:

- **Actuation Type:** Manual
- **Class:** 2680
- **Material:** Steel
- **Mounting Type:** Socket Weld
- **Size:** 1-1/2 IN
- **Dimensions:** 18 x 12.5 x 7 inches
- **Weight:** 56.4 Pounds

Figure 2: Angled view of the valve, highlighting the identification tag on the valve body.

Figure 3: Detailed view of the valve's identification tag, displaying model number (7230W-3-0219), size (1 1/2"), class (2680), and material specifications.

Setup and Installation

Proper installation is crucial for the long-term performance and safety of the valve. This valve is designed for socket weld installation.

1. **Preparation:**
    - Inspect the valve for any shipping damage or debris.
    - Ensure the pipe ends are clean, free of burrs, and properly beveled for socket welding.
    - Verify that the valve's material and pressure rating are compatible with the system's requirements.
2. **Positioning:**
    - Position the valve correctly in the pipeline, ensuring the flow direction (if indicated) matches the system flow.
    - Support the valve adequately during welding to prevent stress on the connections.

Figure 4: End view of the valve, illustrating the socket weld connection point, typically covered with a protective cap during shipping.

3. **Welding:**
    - Perform socket welding according to applicable industry standards (e.g., ASME B31.1, ASME B31.3) and local codes.
    - Use appropriate welding procedures and qualified welders.
    - Avoid overheating the valve body during welding, which could damage internal components. Consider using heat sinks if necessary.
4. **Post-Installation:**
    - Allow welds to cool completely before pressurizing the system.

- Conduct a hydrostatic test or other appropriate leak tests to ensure weld integrity.

Operating Instructions

The Hancock Series 7000 Globe Valve is a manual valve operated by turning the handwheel.

- **To Open the Valve:** Turn the handwheel counter-clockwise. Continue turning until the valve is fully open or the desired flow rate is achieved. Globe valves are designed for throttling service, allowing for precise flow regulation.
- **To Close the Valve:** Turn the handwheel clockwise. Continue turning until the valve is fully closed and a tight shut-off is achieved. Do not overtighten, as this can damage the seating surfaces.
- **Throttling:** For flow regulation, adjust the handwheel to the desired position. The globe valve's design allows for good throttling characteristics.

Maintenance

Regular maintenance ensures the longevity and reliable operation of your valve.

- **Periodic Inspection:** Regularly inspect the valve for external leaks, corrosion, or damage to the handwheel and stem.
- **Packing Gland:** If stem leakage occurs, the packing gland may need to be tightened. Gradually tighten the packing nuts until the leakage stops. Do not overtighten, as this can impede stem movement.
- **Cleaning:** Keep the exterior of the valve clean to prevent accumulation of dirt or corrosive substances.
- **Lubrication:** The stem threads and packing area may benefit from periodic lubrication with a suitable lubricant compatible with the process fluid and valve materials.
- **Storage:** If the valve is to be stored for an extended period, ensure it is clean, dry, and stored in a protected environment to prevent corrosion.

Troubleshooting

Problem	Possible Cause	Solution
Stem Leakage	Loose packing gland, worn packing	Tighten packing nuts gradually. If leakage persists, replace packing.
Valve Does Not Close Fully	Debris in valve seat, damaged disc/seat	Flush the system to remove debris. If problem persists, valve may require disassembly and inspection by qualified personnel.
Difficult to Operate Handwheel	Overtightened packing, stem corrosion, bent stem	Loosen packing nuts slightly. Clean and lubricate stem. If stem is bent, valve repair or replacement may be necessary.
External Body Leakage	Cracked body, faulty weld, loose bonnet bolts	Inspect for visible cracks or weld defects. Tighten bonnet bolts if applicable. Significant leaks may require professional repair or valve replacement.

Specifications

Detailed technical specifications for the Hancock 7230W-3-0219 Series 7000 Globe Valve:

- **Product Dimensions:** 18 x 12.5 x 7 inches
- **Weight:** 56.4 Pounds
- **Date First Available:** April 22, 2019
- **Manufacturer:** HANCOCK
- **ASIN:** B07QWNJ6S4
- **Material:** Steel
- **Brand:** Hancock
- **Inlet Connection Type:** Socket Weld
- **Actuation Type:** Manual
- **Class:** 2680
- **Size:** 1-1/2 IN

Figure 5: Close-up view of the valve body, showing the embossed "2680" class rating.

Figure 6: Close-up view of the valve body, showing embossed text including "HANCOCK" and "2680", confirming brand and class.

Figure 7: Product label with barcode, displaying the full model description and a numerical identifier "684464".

Warranty and Support

For specific warranty information, please refer to the documentation provided at the time of purchase or contact Hancock customer support directly. Hancock is a brand of valves manufactured by HANCOCK.
For technical assistance, spare parts, or further inquiries, please contact your authorized Hancock distributor or the manufacturer.
Note: The barcode label in Figure 7 includes a numerical identifier "684464", which may be useful for product identification or tracking.