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Dixon SSBV125

Dixon SSBV125 1-1/4 Inch Ball Valve Instruction Manual

Brand: Dixon | Model: SSBV125

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of the Dixon SSBV125 1-1/4 inch stainless steel ball valve. Please read this manual thoroughly before using the product to ensure proper function and longevity.

The Dixon SSBV125 ball valve is designed for use in water, oil, and gas applications, offering reliable flow control with its robust stainless steel construction.

2. SAFETY INFORMATION

Always observe standard safety precautions when working with industrial valves and pressurized systems. Failure to follow these instructions could result in property damage, injury, or death.

- Ensure the system is depressurized and drained before installation or maintenance.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Do not exceed the maximum pressure ratings specified for the valve.
- Handle the valve with care to prevent damage to threads or internal components.
- Consult a qualified professional for complex installations or if you are unsure about any procedure.

3. PRODUCT OVERVIEW AND FEATURES

The Dixon SSBV125 is a high-quality 1-1/4 inch ball valve constructed from durable 316 stainless steel. It features a full port design for unrestricted flow and a blow-out proof stem for enhanced safety.



Figure 1: Dixon SSBV125 1-1/4 inch stainless steel ball valve. This image shows the full port valve with its blue handle in the open position, highlighting the robust stainless steel body and threaded connections.

Key Features:

- **Material:** 316 Stainless Steel body, ball, and stem for corrosion resistance.
- **Seat and Gasket:** R-PTFE (Reinforced Polytetrafluoroethylene) seat, joint gasket, and thrust washer for reliable sealing.
- **Stem Design:** Blow-out proof stem for increased operational safety.
- **Port Type:** Full port design ensures maximum flow capacity and minimal pressure drop.
- **Handle:** Plastic cover on handle for comfortable operation.
- **Applications:** Suitable for water, oil, and gas systems.

4. SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of the ball valve. Follow these general guidelines:

1. **System Preparation:** Ensure the pipeline system is clean, free of debris, and depressurized.
2. **Thread Preparation:** Apply appropriate thread sealant (e.g., PTFE tape or pipe dope) to the male pipe threads.
3. **Alignment:** Align the valve with the pipeline. Avoid applying excessive force that could distort the valve body.
4. **Tightening:** Hand-tighten the valve onto the pipe, then use a wrench to tighten further. Do not overtighten, as this can damage the threads or valve.
5. **Flow Direction:** Ball valves are typically bi-directional, but it is good practice to install them with the flow direction matching any markings, if present.
6. **Testing:** After installation, slowly pressurize the system and check for leaks at all connections.

5. OPERATING INSTRUCTIONS

The Dixon SSBV125 ball valve is designed for simple quarter-turn operation.

- **To Open the Valve:** Rotate the handle 90 degrees (a quarter turn) so that it is parallel with the pipeline. This aligns the ball's bore with the flow path, allowing fluid to pass through.
- **To Close the Valve:** Rotate the handle 90 degrees (a quarter turn) so that it is perpendicular to the pipeline. This

positions the solid part of the ball across the flow path, stopping fluid flow.

The handle typically indicates the valve's position with "ON" (open) and "OFF" (closed) markings.

6. MAINTENANCE

The Dixon SSBV125 ball valve requires minimal maintenance due to its robust construction. However, periodic inspection is recommended.

- **Regular Inspection:** Periodically check for any signs of leakage around the stem or body connections.
- **Cleaning:** Keep the exterior of the valve clean to prevent corrosion, especially in harsh environments.
- **Lubrication:** The internal components are generally self-lubricating. Do not attempt to lubricate the ball or seats unless specifically instructed by Dixon Valve.
- **Storage:** If storing the valve, keep it in a clean, dry environment, preferably with the valve in a partially open position to prevent seat deformation.

7. TROUBLESHOOTING

This section addresses common issues that may arise during the use of the ball valve.

Problem	Possible Cause	Solution
Leakage around stem	Packing nut loose, worn stem packing	Gently tighten the packing nut. If leakage persists, the packing may need replacement (consult a professional).
Leakage at pipe connections	Improper thread sealant, insufficient tightening, damaged threads	Depressurize system, reapply thread sealant, and retighten connections. Inspect threads for damage.
Valve difficult to turn	Debris in valve, seat wear, lack of use	Cycle the valve a few times. If resistance continues, the valve may need to be removed and inspected for internal debris or damage.

For issues not covered here, or if solutions do not resolve the problem, contact Dixon Valve customer support or a qualified technician.

8. SPECIFICATIONS

Attribute	Detail
Model Number	SSBV125
Size	1-1/4 inch
Material	316 Stainless Steel (body, ball, stem)
Seat/Gasket Material	R-PTFE
Port Type	Full Port
Number of Ports	1
Stem Design	Blow-out proof

Attribute	Detail
Handle Cover	Plastic
Applications	Water, Oil, Gas
Certification	UL (Specification Met)
UPC	089109721931

9. WARRANTY INFORMATION

For detailed warranty information regarding the Dixon SSBV125 ball valve, please refer to the official Dixon Valve website or contact their customer service directly. Warranty terms and conditions may vary.

10. CUSTOMER SUPPORT

If you require further assistance, technical support, or have questions not addressed in this manual, please contact Dixon Valve customer support through their official channels. Contact information can typically be found on the manufacturer's website.

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