

Dixon LS152

Dixon Valve LS152 Quick Release 301 SS Clamp Instruction Manual

Model: LS152 | Brand: Dixon

1. INTRODUCTION

This manual provides essential instructions for the proper installation, operation, and maintenance of the Dixon Valve LS152 Quick Release 301 Series Stainless Steel Clamp. Adhering to these guidelines will ensure safe and effective use of the product.

2. PRODUCT OVERVIEW

The Dixon Valve LS152 is a Quick Release 301 Series Stainless Steel Clamp designed for securing hoses and pipes. It features a 1/2-inch width and is suitable for applications requiring a clamping range of 2 to 10 inches. This product is supplied in a pack of 37 units.

Construction Details:

- **Screw Design:** 5/16 inch slotted hex head
- **Band & Housing:** 201 Series Stainless Steel
- **Screw:** Plated, Hardened Carbon Steel



Figure 1: Dixon Valve LS152 Quick Release 301 Series Stainless Steel Clamp. This image displays the stainless steel band, the slotted hex head screw, and the housing mechanism of the clamp.

3. SPECIFICATIONS

Manufacturer	Dixon Valve
Part Number	LS152
Material	Stainless Steel
Item Package Quantity	37
Measurement System	Inch
UPC	089109864850

4. SAFETY NOTES

- The maximum recommended torque for tightening the screw is **50 inch-pounds**. Exceeding this limit may damage the clamp or the hose.
- Torque ratings refer specifically to the screw of the clamp and do not indicate the working pressure capacity of any hose assembly where this clamp is installed. Always verify the working pressure of the entire hose assembly independently.
- Ensure the clamp is correctly sized for the application to prevent leaks or damage.
- Wear appropriate personal protective equipment (PPE) during installation and maintenance.

5. SETUP

1. **Inspect Components:** Before installation, visually inspect each clamp for any signs of damage, deformation, or missing parts. Ensure the screw mechanism operates smoothly.

2. **Prepare Hose and Fitting:** Ensure the hose end and the fitting are clean, dry, and free from any debris or lubricants that could compromise the seal.
3. **Select Correct Size:** Verify that the clamp's diameter range is appropriate for the outer diameter of the hose and fitting combination. An improperly sized clamp can lead to leaks or failure.

6. OPERATING INSTRUCTIONS (INSTALLATION)

1. **Position the Clamp:** Slide the clamp over the hose end before attaching the hose to the fitting. Once the hose is securely seated on the fitting, position the clamp over the area where the hose covers the fitting's barb or connection point. Ensure the clamp band is centered over the sealing surface.
2. **Engage the Screw:** Insert the free end of the clamp band into the housing and engage the screw mechanism.
3. **Initial Tightening:** Using a 5/16 inch slotted screwdriver or hex driver, hand-tighten the screw until the clamp is snug around the hose, but not yet fully compressed.
4. **Final Tightening:** Gradually tighten the screw, ensuring even compression around the hose. Use a torque wrench to apply a maximum of **50 inch-pounds** of torque. Avoid over-tightening, as this can damage the hose or the clamp.
5. **Verify Security:** After tightening, gently tug on the hose to ensure it is firmly secured and does not slip.

7. MAINTENANCE

- **Regular Inspection:** Periodically inspect installed clamps for signs of corrosion, wear, or loosening. Check for any deformation of the band or housing.
- **Retightening:** If a clamp appears loose, retighten it to the recommended torque of 50 inch-pounds. Do not exceed this limit.
- **Cleaning:** Clean clamps as needed to remove dirt, grime, or corrosive substances. Use mild soap and water, then rinse thoroughly and dry. Avoid harsh chemicals that could degrade the stainless steel.
- **Replacement:** Replace any clamp that shows significant signs of damage, corrosion, or fatigue. Do not attempt to repair damaged clamps.

8. TROUBLESHOOTING

Issue: Leakage at the connection point

- **Possible Cause 1:** Clamp is not tightened sufficiently.
 - **Solution:** Retighten the clamp to the recommended torque of 50 inch-pounds.
- **Possible Cause 2:** Clamp is improperly positioned.
 - **Solution:** Loosen the clamp, reposition it over the sealing surface of the hose and fitting, and retighten.
- **Possible Cause 3:** Clamp is the wrong size for the hose/fitting.
 - **Solution:** Replace the clamp with one that matches the outer diameter of the hose and fitting.
- **Possible Cause 4:** Damaged hose or fitting.
 - **Solution:** Inspect the hose and fitting for cuts, cracks, or deformities. Replace damaged components as necessary.

Issue: Clamp loosening over time

- **Possible Cause 1:** Insufficient initial tightening.
 - **Solution:** Retighten the clamp to the recommended torque. Consider using a torque wrench for precise

application.

- **Possible Cause 2:** Vibration or thermal cycling.
 - **Solution:** Regularly inspect and retighten clamps in high-vibration or fluctuating temperature environments.

9. WARRANTY AND SUPPORT

Specific warranty information for the Dixon Valve LS152 Quick Release 301 SS Clamp is not provided within this manual. For detailed warranty terms, technical support, or further assistance, please contact Dixon Valve directly or refer to their official website.

Manufacturer: Dixon Valve

Model: LS152

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