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> Dixon CS400-3SS 304SS Crimp Style Sleeve Instruction Manual

Dixon CS400-3SS

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Model: CS400-3SS | Brand: Dixon

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the Dixon CS400-3SS 304SS Crimp Style Sleeve. Please read these instructions carefully before use to ensure safe and efficient performance. Retain this manual for future reference.

PRODUCT OVERVIEW

The Dixon CS400-3SS is a King Crimp Style Sleeve constructed from 304 Stainless Steel, designed for use with compatible crimp style shanks. It is engineered for industrial applications requiring secure hose connections.

Key Features:

- Material: 304 Stainless Steel
- Type: King Crimp Style Sleeve
- Inner Diameter (ID): 4.375" (111.13mm)
- Wall Thickness: 0.09"
- Compatible Hose ID: 4"
- Compatible Hose Outer Diameter (OD): 4-21/64" - 4-24/64"

SAFETY INFORMATION

WARNING: Improper installation or use can lead to serious injury or equipment damage. Adhere to all safety guidelines.

- Only use Dixon crimp style shanks with Dixon crimp style sleeves and ferrules.
- Do not interchange products from other manufacturers with Dixon products due to potential differences in dimensions and tolerances.
- Pressure ratings are specified at 70°F (21°C). Consult Dixon for pressure ratings at elevated temperatures.
- Always wear appropriate personal protective equipment (PPE) during installation and maintenance.
- Ensure all connections are secure and leak-free before operating any system.

SETUP AND INSTALLATION

Proper installation is crucial for the performance and safety of the crimp style sleeve. Follow these steps carefully:

1. **Select Compatible Components:** Ensure you are using a Dixon crimp style shank and ferrule that are compatible with the CS400-3SS sleeve and the hose being used. Refer to Dixon's product specifications for compatibility.
2. **Prepare Hose:** Cut the hose squarely to the desired length. Ensure the hose ends are clean and free from debris.
3. **Insert Shank:** Carefully insert the crimp style shank into the hose end. Ensure the shank is fully seated.
4. **Position Sleeve:** Slide the CS400-3SS crimp style sleeve over the hose and shank assembly. The sleeve should be positioned correctly over the crimping area of the shank.
5. **Crimp Connection:** Using appropriate crimping equipment, crimp the sleeve according to Dixon's recommended crimping specifications for the specific hose and shank combination. Verify the crimp diameter after the process.
6. **Inspect Connection:** Visually inspect the crimped connection for any signs of damage, improper crimping, or misalignment. The crimp should be uniform and secure.
7. **Test System:** Before full operation, conduct a low-pressure test of the system to check for leaks. Gradually increase pressure to the operating level while monitoring for any issues.



Image: A cylindrical stainless steel component, identified by engraved text as 'DIXON CS400-3AL MADE IN USA'. This image represents the general form factor of the Dixon CS400-3SS 304SS Crimp Style Sleeve.

OPERATING CONSIDERATIONS

Once installed, the Dixon CS400-3SS sleeve forms a permanent part of the hose assembly. Ensure that the operating conditions remain within the specified limits for the entire hose assembly, including pressure, temperature, and fluid compatibility.

- **Pressure:** Do not exceed the maximum working pressure of the hose assembly. Refer to Dixon's specifications for pressure ratings at various temperatures.

- **Temperature:** Operating temperatures should be within the limits of all components in the assembly (hose, shank, sleeve).
- **Fluid Compatibility:** Ensure the 304 Stainless Steel material is compatible with the fluid being conveyed to prevent corrosion or degradation.

MAINTENANCE

The Dixon CS400-3SS crimp style sleeve itself requires minimal maintenance once properly installed. However, regular inspection of the entire hose assembly is recommended.

- **Visual Inspection:** Periodically inspect the crimped connection for any signs of wear, corrosion, cracks, or deformation.
- **Leak Checks:** Regularly check for leaks around the crimped area, especially during system operation.
- **Environmental Factors:** Protect the hose assembly from harsh environmental conditions that could accelerate wear or corrosion.
- **Replacement:** If any damage or degradation is observed, the entire hose assembly should be replaced immediately. Do not attempt to repair a damaged crimped connection.

TROUBLESHOOTING

Most issues related to crimp style sleeves stem from improper installation or component incompatibility.

Problem	Possible Cause	Solution
Leakage at connection	Improper crimp diameter; incompatible components; damaged hose or shank; excessive pressure.	Verify crimp specifications and re-crimp if necessary (with new components). Ensure all components are compatible. Replace damaged parts. Check system pressure.
Hose pull-out	Insufficient crimp; incorrect hose or shank size; improper installation.	Ensure correct crimp diameter and proper seating of shank. Verify hose and shank compatibility. Re-install with new components following instructions.
Corrosion on sleeve	Exposure to incompatible fluids or harsh environmental conditions.	Ensure fluid compatibility with 304 Stainless Steel. Protect assembly from corrosive environments. Replace if corrosion compromises integrity.

If troubleshooting steps do not resolve the issue, contact Dixon customer support or a qualified technician.

SPECIFICATIONS

Attribute	Value
Model Number	CS400-3SS
Material	304 Stainless Steel
Type	King Crimp Style Sleeve
Inner Diameter (ID)	4.375" (111.13mm)
Wall Thickness	0.09"

Attribute	Value
Compatible Hose ID	4"
Compatible Hose OD Range	4-21/64" to 4-24/64"
Item Weight	1.4 Pounds
Manufacturer	Dixon

WARRANTY AND SUPPORT

For information regarding product warranty, technical support, or to purchase replacement parts, please contact Dixon directly through their official website or customer service channels.

Dixon Official Website: www.dixonvalve.com

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