

Dixon 16VF16-SS

Dixon 16VF16-SS H-Style Coupler Instruction Manual

Model: 16VF16-SS

2 Inch H-Style Coupler, 2 Inch NPTF, 316 Stainless Steel

INTRODUCTION

This manual provides essential information for the safe and effective use of the Dixon 16VF16-SS H-Style Coupler. Please read all instructions carefully before installation, operation, or maintenance. Proper handling and installation are crucial for optimal performance and safety.

The Dixon 16VF16-SS is a robust 2-inch H-Style Coupler with a 2-inch NPTF thread, constructed from 316 stainless steel, designed for reliable fluid transfer applications.

SAFETY INFORMATION

Always adhere to local safety regulations and industry best practices when working with fluid transfer systems. Failure to follow these guidelines may result in property damage, serious injury, or death.

- Ensure all connections are secure and free from leaks before pressurizing the system.
- Do not exceed the maximum operating pressure specified for the coupler and connected components.
- Wear appropriate personal protective equipment (PPE), including eye protection and gloves.
- Depressurize the system completely before attempting any installation, maintenance, or disconnection.
- Inspect the coupler regularly for signs of wear, corrosion, or damage. Replace damaged components immediately.

SETUP AND INSTALLATION

The Dixon 16VF16-SS H-Style Coupler is designed for straightforward installation. Follow these steps for proper setup:

1. **Preparation:** Ensure that the mating components (hose, pipe, etc.) have clean, undamaged 2-inch NPTF threads. Remove any debris or old sealant.
2. **Thread Sealant:** Apply an appropriate thread sealant (e.g., PTFE tape or pipe thread compound) to the male NPTF threads of the connecting component. Ensure the sealant is compatible with the fluid being transferred.
3. **Connection:** Carefully thread the Dixon 16VF16-SS coupler onto the prepared male NPTF connection. Hand-tighten first to ensure proper thread engagement.
4. **Tightening:** Use a suitable wrench to tighten the coupler. Do not overtighten, as this can damage the threads or the coupler. Tighten until a secure, leak-free connection is achieved. Refer to industry standards for NPTF thread tightening torque if available for your specific application.
5. **System Integration:** Connect the other end of the coupler to its corresponding H-style nipple or adapter. Ensure the locking mechanism (if applicable to the nipple) engages fully.

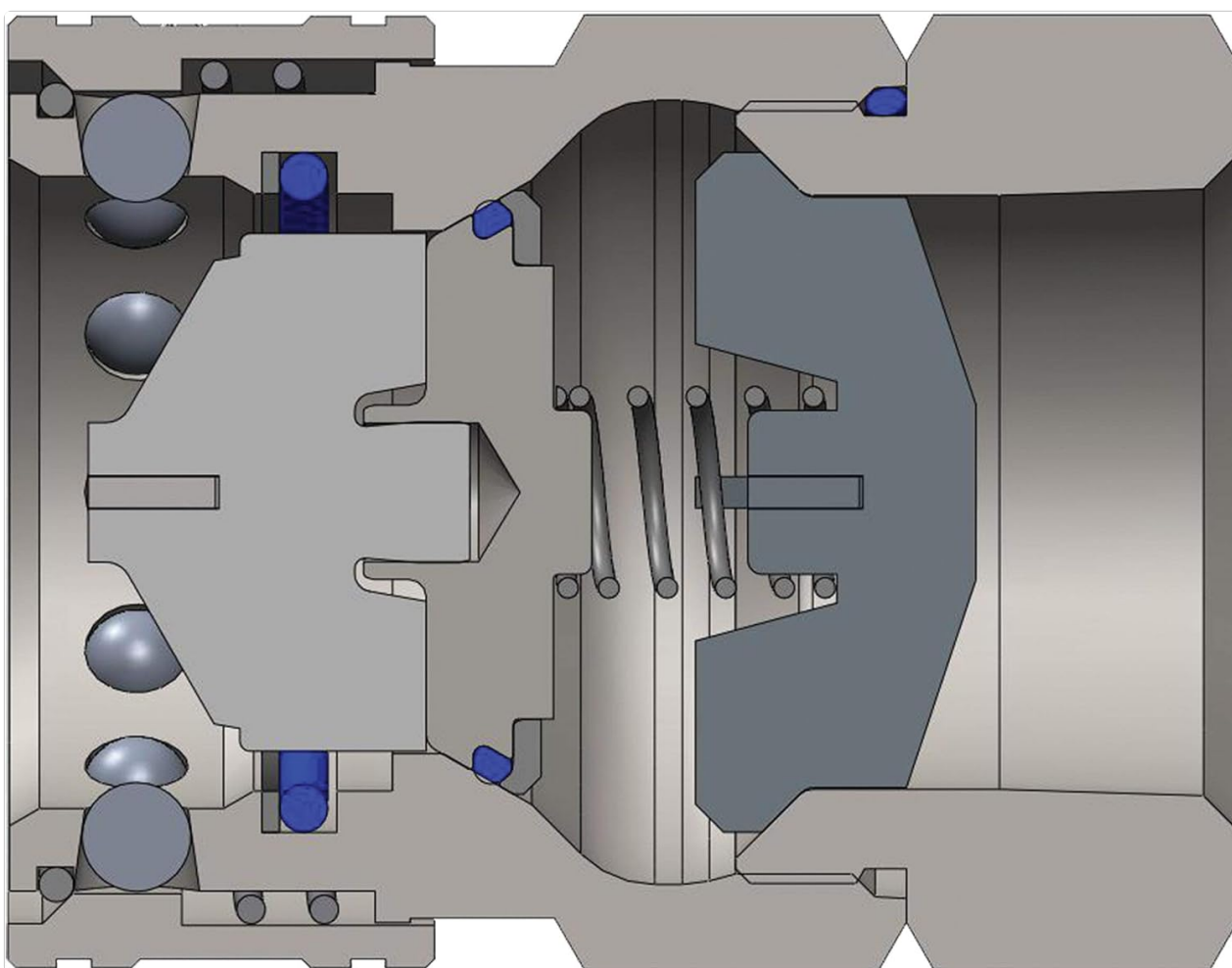


Figure 1: Internal cross-section of an H-Style Coupler, showing the ball locking mechanism and internal seals. This diagram illustrates the general design principles of the coupler, including the engagement of the male and female components and the sealing elements.

OPERATING INSTRUCTIONS

Once installed, the Dixon 16VF16-SS H-Style Coupler operates by providing a quick and secure connection for

fluid transfer. Its design ensures a reliable seal under pressure.

- **Connection:** To connect, align the H-style nipple with the coupler and push firmly until the locking balls engage and the connection is secure. A distinct "click" may be heard, indicating proper engagement.
- **Disconnection:** To disconnect, ensure the system is depressurized. Pull back the sleeve on the coupler (if applicable to the specific H-style design) to release the locking balls, then pull the nipple away from the coupler.
- **Flow Direction:** The coupler is designed for bidirectional flow, but always ensure compatibility with the fluid and system pressure.

MAINTENANCE

Regular maintenance extends the life and ensures the safe operation of your Dixon H-Style Coupler.

- **Inspection:** Periodically inspect the coupler for signs of wear, corrosion, pitting, or damage, especially around the sealing surfaces and locking mechanism.
- **Cleaning:** Clean the coupler regularly, especially after use with corrosive or viscous fluids. Use cleaning agents compatible with 316 stainless steel.
- **Lubrication:** Lightly lubricate the moving parts of the quick-connect mechanism (if applicable) with a lubricant compatible with the fluid and seals.
- **Seal Replacement:** If leaks occur or seals appear worn, replace them with genuine Dixon replacement seals. Refer to the manufacturer's guidelines for seal replacement procedures.
- **Storage:** Store the coupler in a clean, dry environment when not in use to prevent contamination and corrosion.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Leakage at connection	Damaged or worn seals Improperly tightened threads Damaged threads Incorrect thread sealant	Replace seals. Re-tighten connection, ensuring proper torque. Inspect threads; replace coupler if damaged. Apply appropriate thread sealant.
Difficulty connecting/disconnecting	Debris in mechanism Corrosion or lack of lubrication Damaged locking balls or sleeve System under pressure	Clean coupler thoroughly. Lubricate moving parts. Inspect and replace if damaged. Depressurize system before attempting connection/disconnection.

Problem	Possible Cause	Solution
Reduced flow	Internal blockage Partially engaged connection	Disassemble and clean internal components. Ensure coupler is fully engaged.

SPECIFICATIONS

Attribute	Detail
Model Number	16VF16-SS
Brand	Dixon
Connector Type	H-Style Coupler
Thread Size	2 Inch
Thread Type	NPTF
Material	316 Stainless Steel
Item Weight	6.2 Pounds
Exterior Finish	Nickel (Note: Product description states 316SS, specifications list Nickel finish. Prioritize 316SS as primary material, Nickel might be a coating or a general spec for similar products.)
Manufacturer	Dixon Valve & Coupling
Certification	ROHS

WARRANTY INFORMATION

Dixon products are manufactured to high standards of quality and performance. For specific warranty terms and conditions, please refer to the official Dixon Valve & Coupling website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

CUSTOMER SUPPORT

For technical assistance, replacement parts, or further inquiries regarding your Dixon 16VF16-SS H-Style Coupler, please contact Dixon Valve & Coupling customer support.

Manufacturer: Dixon Valve & Coupling

Website: www.dixonvalve.com (Example link, actual link may vary)

Contact Information: Please visit the official Dixon website for the most current contact details, including phone numbers and email addresses.