

## Swagelok SS-QC6-S-6PFK1

# Swagelok QC Series Quick Connect SS-QC6-S-6PFK1 Instruction Manual

## 1. INTRODUCTION

This manual provides essential instructions for the safe and effective installation, operation, and maintenance of the Swagelok QC Series Quick Connect, model SS-QC6-S-6PFK1. Please read this manual thoroughly before using the product to ensure proper function and to prevent potential hazards.

## 2. PRODUCT OVERVIEW

The Swagelok QC Series Quick Connect, model SS-QC6-S-6PFK1, is a high-quality industrial fitting designed for reliable and efficient fluid system connections. This specific model features a QC6 Stem (SESO-No Valve) with a 3/8-inch Female NPT connection, constructed from durable 316 stainless steel. It includes a 'Black' keying option for system identification and prevention of accidental intermixing with incompatible lines.



This image displays the Swagelok QC Series Quick Connect, model SS-QC6-S-6PFK1. The component is made of 316 stainless steel, featuring a QC6 stem design and a 3/8-inch female NPT connection. It is shown inside its original clear plastic packaging, highlighting its robust construction and precise threading.

### 3. SAFETY INFORMATION

- Always depressurize the system before connecting or disconnecting quick connects.
- Ensure the quick connect is clean and free of debris before connection.
- Verify that the quick connect is fully engaged before pressurizing the system.
- Do not exceed the maximum pressure ratings specified for coupled or uncoupled conditions.
- Wear appropriate personal protective equipment (PPE) when handling and installing the product.
- Use only compatible quick connect components. The 'Black' keying indicates specific compatibility.

## 4. SETUP AND INSTALLATION

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1. **Preparation:** Ensure all system components are clean and free from contaminants. Inspect the quick connect for any visible damage.
2. **Thread Connection:** Apply an appropriate thread sealant to the 3/8-inch NPT male thread of the mating component. Carefully thread the SS-QC6-S-6PFK1 female NPT connection onto the male thread. Tighten to the manufacturer's recommended torque specifications to ensure a leak-tight seal.
3. **System Integration:** Connect the quick connect stem to the corresponding quick connect body. Ensure the keying (if applicable) aligns correctly.
4. **Verification:** Pull firmly on the connected components to confirm full engagement.

## 5. OPERATING INSTRUCTIONS

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### 5.1 Connecting

1. Ensure the system is depressurized before connecting.
2. Align the QC6 stem with the compatible QC Series body, ensuring the 'Black' keying aligns.
3. Push the stem firmly into the body until a positive click is felt or heard, indicating full engagement.
4. Verify the connection by gently pulling on the components.
5. Slowly pressurize the system and check for leaks.

### 5.2 Disconnecting

1. Depressurize the system completely before attempting to disconnect.
2. Grasp the knurled sleeve of the quick connect body and pull it back.
3. While holding the sleeve back, pull the stem out of the body.
4. Release the sleeve.

## 6. MAINTENANCE

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Regular inspection and cleaning are crucial for optimal performance and longevity of your Swagelok quick connect.

- **Inspection:** Periodically inspect the quick connect for signs of wear, corrosion, or damage to the body, stem, and seals. Replace any damaged components immediately.
- **Cleaning:** Clean the quick connect components with a mild detergent and water, or a solvent compatible with 316 stainless steel and the seal materials. Ensure all cleaning agents are thoroughly rinsed off.
- **Lubrication:** Consult Swagelok's specific guidelines for any recommended lubrication of seals or moving parts.
- **Storage:** Store disconnected quick connects with protective caps to prevent contamination and damage to the sealing surfaces.

## 7. TROUBLESHOOTING

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### 7.1 Leaks After Connection

- **Cause:** Improper connection, damaged seals, or debris on sealing surfaces.

- **Solution:** Depressurize the system. Disconnect and inspect the quick connect for debris or damaged O-rings/seals. Clean or replace as necessary. Reconnect firmly.

## 7.2 Difficulty Connecting/Disconnecting

- **Cause:** System pressure, misalignment, or damaged components.
- **Solution:** Ensure the system is fully depressurized. Check for proper alignment of the stem and body. Inspect for bent or damaged parts. Do not force connections.

## 7.3 Incompatible Connection






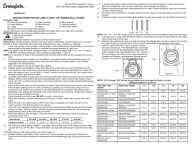
- **Cause:** Attempting to connect incompatible quick connect series or sizes.
- **Solution:** Verify that both the stem and body are of the correct QC Series and size, and that keying (e.g., 'Black') matches.

## 8. SPECIFICATIONS

Feature	Specification
Model Number	SS-QC6-S-6PFK1
Brand	Swagelok
Series	QC Series
Type	Quick Connect Stem (SESO-No Valve)
Connection Size	3/8" Female NPT
Material	316 Stainless Steel
Keying Option	K1 (Keyed "Black")
Maximum Pressure (Coupled)	1,500 psi
Maximum Pressure (Uncoupled)	250 psi
Item Weight	1 Pound
Manufacturer	Swagelok

## 9. WARRANTY AND SUPPORT

For information regarding product warranty, technical support, or replacement parts, please contact Swagelok directly or refer to their official website. Keep your purchase records for warranty claims.

	<p><a href="#"><u>Swagelok FK Series Medium-Pressure Tube Fittings Installation Guide</u></a></p> <p>This guide provides detailed installation instructions for Swagelok FK series medium-pressure tube fittings, covering materials such as 316 stainless steel, alloy 2507, and alloy 625. It outlines required tools, step-by-step assembly procedures, torque specifications for various sizes and materials, and gaugeability checks for proper tightening. Instructions for reassembly, cap installation, plug installation, port connectors, and tube adapters/reducers are also included.</p>
	<p><a href="#"><u>Swagelok Tube Fittings: An Installer's Pocket Guide</u></a></p> <p>Comprehensive guide for Swagelok tube fittings, covering installation, selection, ordering, and replacement parts. Essential resource for installers and engineers.</p>
	<p><a href="#"><u>Swagelok Tube Fittings: An Installer's Pocket Guide</u></a></p> <p>An Installer's Pocket Guide for Swagelok Tube Fittings. This comprehensive manual provides essential installation instructions, product specifications, and ordering information for Swagelok's extensive range of fluid system components, including NPT, ISO/BSP, SAE/MS, and specialized fittings. Essential for professionals in industrial fluid systems.</p>
	<p><a href="#"><u>Swagelok Gaugeable Tube Fittings &amp; Adapter Fittings Catalog   Reliable Fluid System Connections</u></a></p> <p>Discover the comprehensive Swagelok catalog detailing gaugeable tube fittings and adapter fittings. Learn about advanced designs, material options, pressure ratings, and installation tools for reliable fluid system connections across diverse industries.</p>
	<p><a href="#"><u>Swagelok Tube Fitting Installation and Reassembly Instructions</u></a></p> <p>Comprehensive guide to installing and reassembling Swagelok tube fittings for 1 inch (25 mm) and smaller sizes, covering safe practices, gaugeability, and reassembly steps.</p>
	<p><a href="#"><u>Swagelok 60 Series No-Lube 4-Bolt Ball Valve Maintenance and Installation Instructions</u></a></p> <p>Detailed instructions for the maintenance and servicing of Swagelok 60 Series No-Lube 4-Bolt Ball Valves, including parts lists, assembly steps, and torque specifications for models 60T, 60E, 60V, N60T, and series 62, 62X, 63, 63X, 65, 65X, 67, 67X, 68, 68X.</p>