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Cavagna SFLSER-STD

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Model: SFLSER-STD

1. INTRODUCTION

This manual provides essential information for the safe and effective use of the Cavagna SFLSER-STD Propane LP Forklift Liquid Service Fill Valve. This valve is designed for vapor or liquid withdrawal service on DOT forklifts and ASME containers. Please read all instructions carefully before installation and operation.

Important Safety Information

WARNING: Compressed gas cylinders and valves can be dangerous if used improperly. Always exercise extreme caution when connecting and using any compressed gas device. Ensure you understand and follow all applicable safety regulations and procedures.

- Always wear appropriate personal protective equipment (PPE).
- Ensure proper ventilation in the work area.
- Verify all connections are secure and leak-free before operation.
- Do not modify the valve or use it for purposes other than its intended design.
- Refer to local and national safety codes for handling propane and compressed gases.

2. PRODUCT FEATURES

The Cavagna SFLSER-STD valve incorporates several design features for reliable performance:

- **Quality Construction:** Features a sturdy forged brass handwheel for durability.
- **Leak Resistance:** Designed for leak-resistant performance.
- **Pre-Applied Sealant:** Inlet thread comes with pre-applied sealant for easier installation and improved sealing.
- **Excess Flow Limiter:** Equipped with an excess flow limiter to reduce the possibility of mechanical damage or fouling.
- **Compatibility:** Compatible with DOT forklift and ASME containers.
- **Flow Rate:** Offers a 2.6 GPM (Gallons Per Minute) flow rate.



Image 1: Cavagna SFLSER-STD Propane LP Forklift Liquid Service Fill Valve. This image shows the brass valve with its forged brass handwheel, inlet, and outlet connections.

3. SETUP AND INSTALLATION

Proper installation is crucial for safe and efficient operation. If you are unsure about any step, consult a qualified professional.

1. **Preparation:** Ensure the propane cylinder is empty and depressurized before beginning installation. Wear appropriate safety gear.
2. **Inspect Connections:** Verify that the cylinder connection (3/4" NGT) and the outlet connection (3/8" NPT) on the valve are clean and free from debris.
3. **Cylinder Connection:** Carefully thread the 3/4" NGT end of the valve into the propane cylinder. The valve comes with pre-applied sealant on the inlet thread. Tighten securely using an appropriate wrench, but do not overtighten.
4. **Outlet Connection:** Connect the 3/8" NPT outlet of the valve to your equipment. Use a suitable thread sealant if necessary for this connection, ensuring it is compatible with propane. Tighten securely.

5. **Leak Check:** After installation, perform a leak check using a leak detection solution (e.g., soapy water) on all connections. Open the cylinder valve slowly and observe for bubbles, which indicate a leak. If leaks are detected, close the cylinder valve, depressurize, and re-tighten connections. Repeat the leak check until no leaks are present.

Note: The valve is designed for vapor or liquid withdrawal service. Ensure the cylinder is positioned correctly for the intended withdrawal type.

4. OPERATING INSTRUCTIONS

Follow these steps for safe operation of the valve:

1. **Open Valve:** Slowly turn the forged brass handwheel counter-clockwise to open the valve. Do not force the handwheel.
2. **Monitor Flow:** Observe the flow of propane to your equipment. The valve has a static seat disc and an excess flow limiter to help regulate flow.
3. **Close Valve:** To stop the flow, turn the handwheel clockwise until it is firmly closed. Do not overtighten.
4. **After Use:** Always close the cylinder valve first, then the service valve, and bleed any remaining pressure from the lines before disconnecting equipment.

Caution: Never leave the valve or cylinder unattended while in operation. Always ensure the valve is fully closed when not in use or during transport.

5. MAINTENANCE

The Cavagna SFLSER-STD valve requires minimal maintenance. Regular inspection is recommended to ensure continued safe operation.

- **Visual Inspection:** Periodically inspect the valve for any signs of damage, corrosion, or wear. Check the handwheel for proper function.
- **Leak Checks:** Conduct leak checks regularly, especially after any disconnection or reconnection of equipment.
- **Cleaning:** Keep the valve clean and free from dirt, dust, and debris. Use a soft cloth to wipe down the exterior. Do not use harsh chemicals that could damage the brass.
- **Storage:** When not in use, store the valve in a clean, dry place, protected from extreme temperatures and direct sunlight. Ensure it is disconnected from any pressurized cylinder.

Note: Internal components of the valve are not user-serviceable. Do not attempt to disassemble the valve. If the valve is damaged or malfunctioning, it should be replaced by a qualified technician.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with the valve.

Problem	Possible Cause	Solution
Gas Leak at Connections	Loose connection, damaged threads, insufficient sealant.	Close cylinder valve, depressurize, re-tighten connections. Apply appropriate thread sealant if needed (for NPT outlet). Inspect threads for damage. Replace valve if threads are damaged.
No Gas Flow	Valve not fully open, cylinder empty, blockage in line, excess flow limiter activated.	Ensure handwheel is fully open. Check propane cylinder level. Inspect lines for kinks or blockages. If excess flow limiter is activated, close valve, wait for pressure to equalize, then slowly reopen.
Handwheel Difficult to Turn	Dirt/debris, internal component issue.	Clean exterior of valve. Do not force the handwheel. If resistance persists, the valve may be faulty and should be replaced.

If troubleshooting steps do not resolve the issue, discontinue use and consult a qualified technician or the manufacturer.

7. SPECIFICATIONS

Technical specifications for the Cavagna SFLSER-STD Propane LP Forklift Liquid Service Fill Valve:

- **Model:** SFLSER-STD
- **Material:** Brass
- **Exterior Finish:** Brass
- **Inlet Connection Size:** 3/4 inch (0.75 inches)
- **Inlet Connection Type:** NGT (National Pipe Tapered)
- **Outlet Connection Size:** 3/8 inch (0.38 inches)
- **Outlet Connection Type:** NPT (National Pipe Tapered)
- **Number of Ports:** 2
- **Flow Rate:** 2.6 GPM (Gallons Per Minute)
- **Compatibility:** DOT forklift and ASME containers
- **Manufacturer:** Cavagna
- **Item Weight:** Approximately 2 pounds
- **Package Dimensions:** Approximately 4 x 3 x 2 inches
- **UPC:** 724087261375

8. WARRANTY AND SUPPORT

Specific warranty information for the Cavagna SFLSER-STD valve is not provided in this manual. For warranty details, technical support, or replacement parts, please contact the manufacturer, Cavagna, or your authorized distributor. Always refer to the official Cavagna website or product documentation for the most current information.

