

Ross 1523 C 4002

ROSS 1523C4002 LOCKOUT & EXHAUST VALVE T9790 USER MANUAL

Brand: Ross | Model: 1523 C 4002

1. Introduction

This manual provides essential information for the safe and effective installation, operation, and maintenance of the Ross 1523 C 4002 Lockout & Exhaust Valve. It is intended for qualified personnel responsible for the handling, installation, and servicing of this equipment. Please read this manual thoroughly before attempting any procedures.

The Ross 1523 C 4002 is designed to provide a safe method for isolating pneumatic energy and exhausting downstream pressure, crucial for compliance with lockout/tagout procedures during machine maintenance or servicing.

2. Safety Information

Adherence to safety protocols is paramount when working with pneumatic systems and lockout/exhaust valves. Failure to follow these instructions could result in serious injury or equipment damage.

- Always ensure that all pneumatic energy is safely isolated and exhausted before performing any maintenance, adjustments, or repairs on machinery.
- Follow all applicable local, national, and international safety regulations, including OSHA lockout/tagout standards (e.g., 29 CFR 1910.147).
- Only trained and authorized personnel should install, operate, or maintain this valve.
- Verify that the valve is rated for the system's operating pressure and temperature.
- Do not modify the valve in any way. Use only genuine Ross replacement parts if servicing is required.
- Ensure proper personal protective equipment (PPE) is worn during installation and maintenance.

3. Product Description and Features

The Ross 1523 C 4002 is a robust lockout and exhaust valve designed for industrial pneumatic applications. It

features a manual override for quick pressure exhaust and a lockout mechanism to prevent accidental re-pressurization during maintenance.



Figure 3.1: Front view of the Ross 1523C4002 Lockout & Exhaust Valve, showcasing the prominent red handle and the main body of the valve.

Key features include:

- **Lockout Capability:** Allows for the application of a padlock to prevent unauthorized operation, ensuring compliance with energy isolation procedures.
- **Rapid Exhaust:** Quickly exhausts downstream air pressure when the valve is moved to the exhaust position, de-energizing the pneumatic system.
- **Durable Construction:** Built for industrial environments, ensuring longevity and reliable performance.

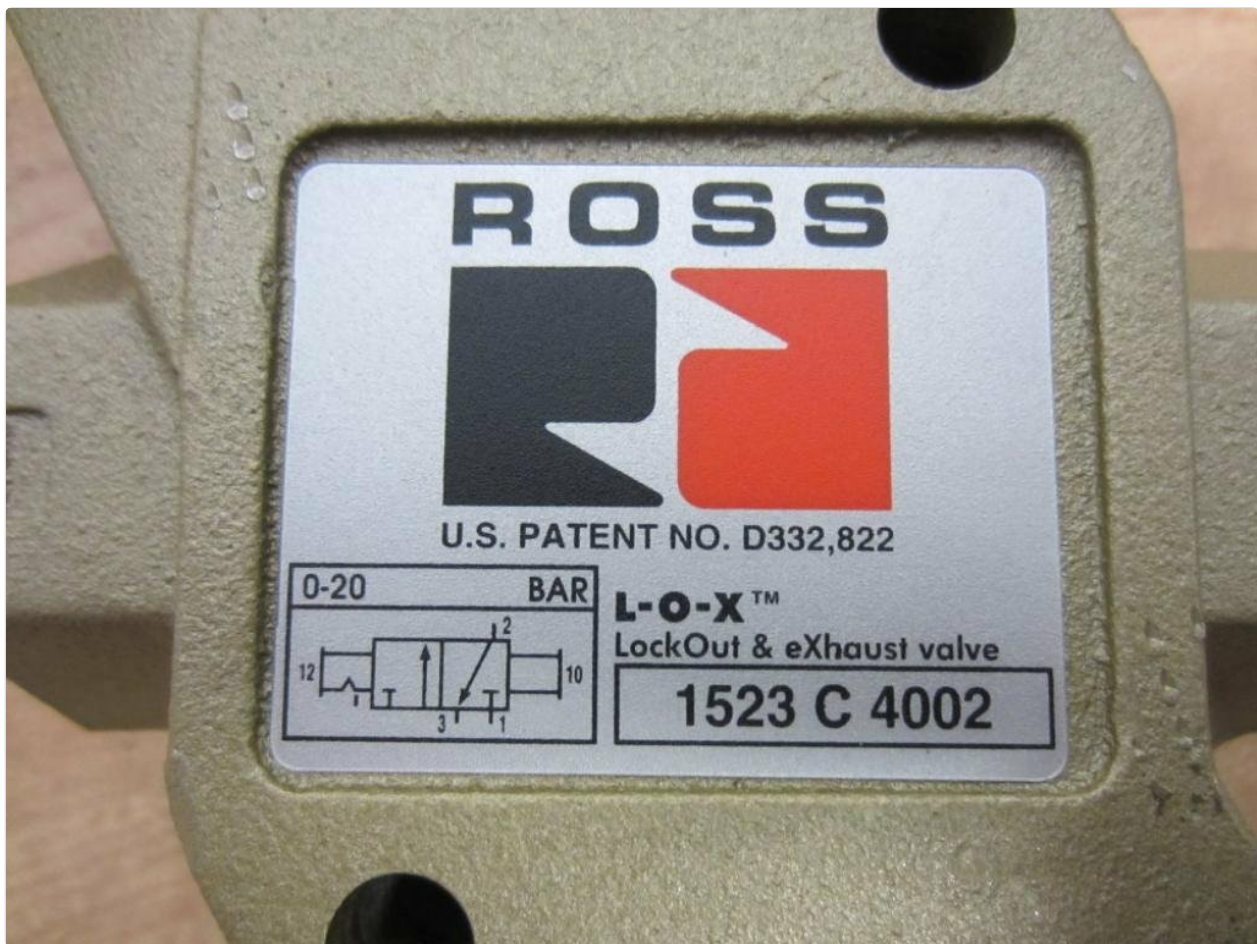


Figure 3.2: Close-up of the product label on the Ross 1523C4002 valve, displaying the "ROSS" logo, U.S. Patent number, "L-O-X™ LockOut & eXhaust valve" designation, and the model number "1523 C 4002".



Figure 3.3: The Ross 1523C4002 Lockout & Exhaust Valve shown alongside its original packaging box, which also displays

the model number.

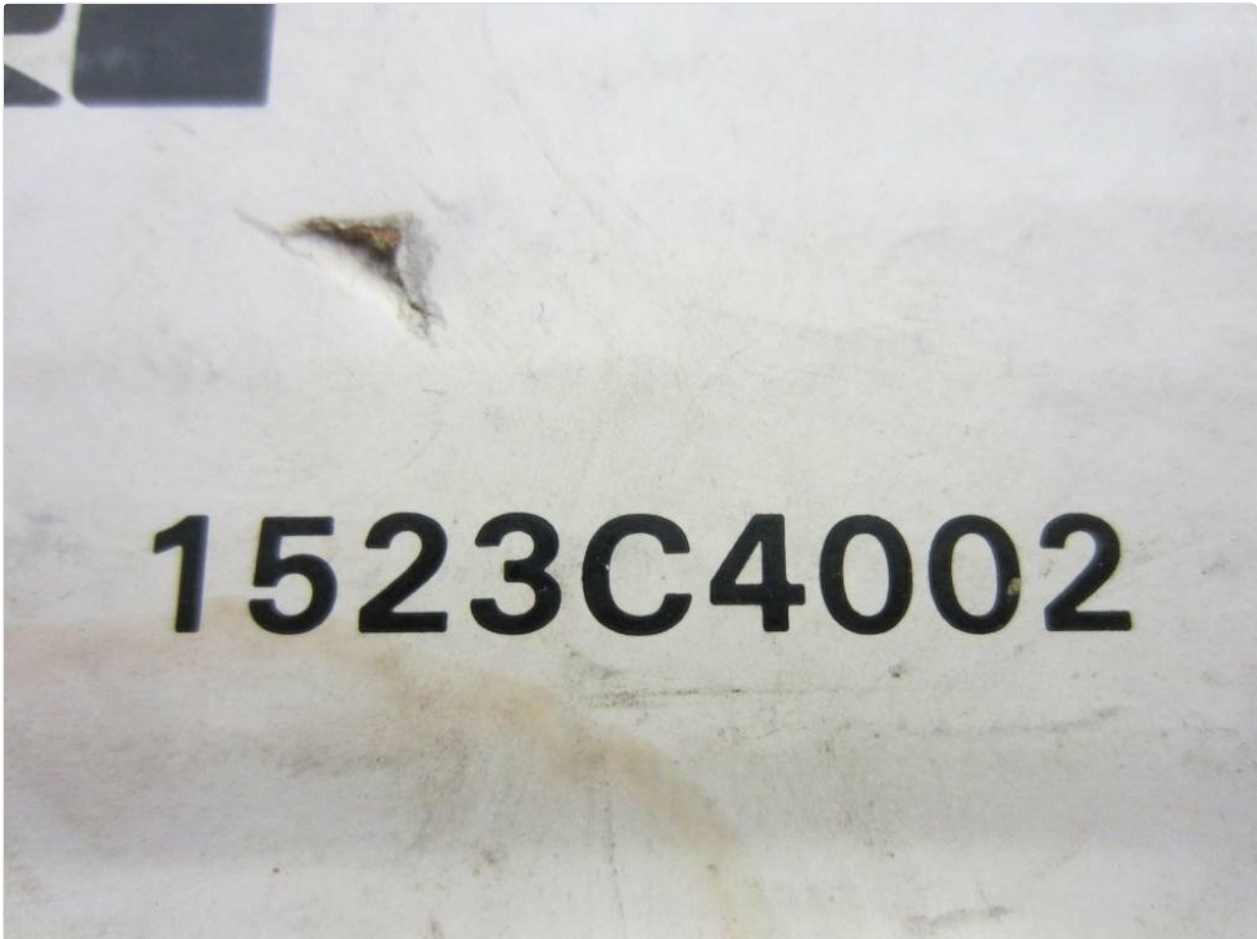


Figure 3.4: Close-up of the model number "1523C4002" printed on the product's packaging box.



Figure 3.5: Top-down view of the Ross 1523C4002 valve, providing a clear perspective of the red handle and the valve's body

from above.

4. Setup and Installation

Proper installation is critical for the safe and effective operation of the valve. Ensure the system is de-pressurized before beginning installation.

1. **Mounting:** Securely mount the valve in a location that is easily accessible for operation and lockout procedures. Ensure the mounting surface is stable and can support the valve's weight and any associated piping.
2. **Pneumatic Connections:** Connect the upstream air supply to the inlet port and the downstream equipment to the outlet port. Use appropriate thread sealant (e.g., PTFE tape) on all threaded connections to prevent leaks. Ensure all connections are tight but do not overtighten.
3. **Exhaust Port:** Ensure the exhaust port is clear and unobstructed. It should be directed away from personnel and sensitive equipment.
4. **Initial Check:** After installation, slowly re-pressurize the system and check all connections for leaks using a suitable leak detection solution.



Figure 4.1: Side view of the Ross 1523C4002 valve, highlighting the threaded ports for connection to pneumatic systems.

5. Operating Instructions

The Ross 1523 C 4002 valve operates with a simple manual mechanism.

- **To Energize (Supply Air):** Push the red handle fully inward towards the valve body. This allows air to flow from the inlet to the outlet, pressurizing the downstream system.
- **To De-energize and Exhaust (Lockout Position):** Pull the red handle fully outward. This action simultaneously blocks the inlet air supply and exhausts the downstream air pressure through the exhaust

port.

- **Lockout Procedure:** Once the handle is in the fully outward (exhaust) position, a padlock can be inserted through the designated hole on the handle to prevent it from being pushed back in. This secures the valve in the de-energized and exhausted state, complying with lockout/tagout requirements.



Figure 5.1: Side view of the Ross 1523C4002 valve, showing the red handle in its engaged position, ready for operation or lockout.

6. Maintenance

Regular maintenance ensures the longevity and reliable operation of your Ross valve. Always de-energize and exhaust the system before performing any maintenance.

- **Routine Inspection:** Periodically inspect the valve for any signs of wear, damage, or air leaks. Check the integrity of all connections.
- **Cleaning:** Keep the valve exterior clean. Avoid using harsh chemicals that could damage the valve materials.
- **Lubrication:** This valve is designed for minimal maintenance. Refer to Ross technical documentation for specific lubrication requirements, if any.
- **Seal Replacement:** If air leaks are detected from the valve body, internal seals may need replacement. This should only be performed by qualified personnel using genuine Ross repair kits.

7. Troubleshooting

This section addresses common issues that may arise during the operation of the Ross 1523 C 4002 valve.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Air Leakage	Loose connections, damaged seals, incorrect thread sealant.	Tighten connections, reapply thread sealant, inspect and replace seals if necessary.
Valve not exhausting fully	Obstructed exhaust port, internal debris, worn internal components.	Check exhaust port for obstructions, clean valve (if safe to do so), consider professional servicing.
Handle difficult to move	Lack of lubrication, internal contamination, mechanical damage.	Consult manufacturer's guidelines for lubrication, inspect for debris or damage. Do not force the handle.

For issues not listed or if solutions do not resolve the problem, contact a qualified technician or Ross customer support.

8. Specifications

The following table outlines the key specifications for the Ross 1523 C 4002 Lockout & Exhaust Valve:

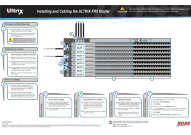



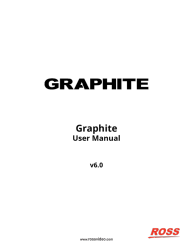
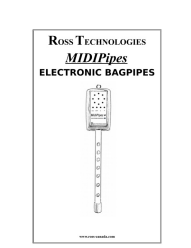
Attribute	Value
Model Number	1523 C 4002
Brand	Ross
Manufacturer	ROSS
Product Dimensions (L x W x H)	12.00 x 5.00 x 2.00 inches (approx.)
Weight	3.83 lb
ASIN	B00GH239ZI
Date First Available	November 6, 2013

Note: Product dimensions from some specifications (0.47 x 0.2 x 0.08 inches; 0.01 ounces) appear to be for a component or packaging detail. The dimensions 12.00 x 5.00 x 2.00 inches are more indicative of the overall product or packaged product.

9. Warranty and Support

Specific warranty information for the Ross 1523 C 4002 Lockout & Exhaust Valve is typically provided at the point of purchase or directly by the manufacturer. Please refer to your purchase documentation or visit the official Ross Controls website for detailed warranty terms and conditions.

For technical support, spare parts, or service inquiries, please contact Ross Controls customer service or an authorized distributor. Contact information can usually be found on the manufacturer's website.

	<p>Installing and Cabling the ULTRIX-FR5 Router</p> <p>This guide provides instructions for installing and cabling the ULTRIX-FR5 Router, including I/O labels, rack mounting, network connections, reference cabling, source and destination device connections, Ultripower cabling, and setting the IP address.</p>
	<p>ROSS Shuttle Valves: Heavy-Duty 19 Series Product Catalog & Specifications</p> <p>Explore the ROSS Heavy-Duty 19 Series Shuttle Valves. This catalog provides product overview, features, technical specifications, ordering information, dimensions, and warranty details for pneumatic applications. Features include poppet design, tight-seal, low cracking pressure, and rugged construction.</p>
	<p>3-Wheel R/C Stunt Car TRC885005 - Omnidirectional Remote Control Toy</p> <p>Detailed information about the 3-Wheel R/C Stunt Car (Model TRC885005) from ROSS Stores. Features include omnidirectional movement, double-sided racing, 360° spins, and remote control operation. Includes safety warnings and product specifications.</p>
	<p>ROSS TV Mounts, Stands & Accessories Catalog Nexus Industries</p> <p>Explore the comprehensive range of ROSS TV mounts, stands, and accessories from Nexus Industries. Find solutions for flat-to-wall, tilt, full motion, and floor stands, plus AV accessories and cables.</p>
	<p>Ross Graphite User Manual v6.0</p> <p>Comprehensive user manual for the Ross Graphite Integrated Production System, covering features, operation, setup, and technical specifications. Includes detailed information on audio mixing, video processing, keying, memory functions, and more.</p>
	<p>MidiPipes Electronic Bagpipes User Manual and Guide</p> <p>Comprehensive user manual for the Ross Technologies MidiPipes Electronic Bagpipes, detailing general description, operating instructions, sound modes, MIDI connectivity, troubleshooting, specifications, and fingering charts.</p>