LUORNG FCHCCATC-W4

LUORNG Flow Control Hose Clamp User Manual

Model: FCHCCATC-W4

1. Introduction

The LUORNG Flow Control Hose Clamp is designed to precisely manage the flow of liquids within flexible tubing. This adjustable plastic tube clamp allows for the complete shut-off or controlled adjustment of liquid flow in hoses with an outer diameter ranging from 1/4" to 1/2" (6 mm to 12 mm). Its versatile design makes it suitable for various applications, including medical equipment, analytical instruments, laboratories, pharmaceuticals, chemicals, and environmental protection.



Figure 1.1: Overview of the LUORNG Flow Control Hose Clamps (4-pack).

2. Safety Information

Please read all safety information before using the product to ensure safe and effective operation.

- Ensure the hose clamp is compatible with the outer diameter of your tubing (1/4" - 1/2" or 6mm - 12mm).
- Use only with flexible tubing to achieve optimal flow control and shut-off. Rigid tubing may not allow for proper compression.
- Do not overtighten the clamp beyond its intended range, as this may damage the clamp or the tubing.
- Verify that the clamp is securely fastened before relying on it to control or stop liquid flow.
- Keep out of reach of children.

3. Product Overview

The LUORNG Flow Control Hose Clamp is constructed from high-quality POM (polyacetal) plastic, offering excellent elasticity and strong clamping force for reliable performance and long service life.

Key Features:

- **Adjustable Flow Control:** Features 6 levels of adjustment to precisely control the liquid flow rate.
- **Shut-Off Capability:** Can completely stop the flow of liquid when fully closed.
- **Durable Material:** Made from POM plastic for durability and strong clamping.
- **Wide Application:** Suitable for various industrial, laboratory, and home uses.



Figure 3.1: A single LUORNG hose clamp, showing its robust design.

4. Specifications

Attribute	Detail
Model Number	FCHCCATC-W4
Material	POM (Polyacetal) Plastic
Color	White

Attribute	Detail
Applicable Tube Outer Diameter	1/4" - 1/2" (6 mm - 12 mm)
Flow Control Levels	6 levels adjustable
Item Weight (per clamp)	Approximately 0.16 oz (4.5g)
Package Quantity	4 clamps
Dimensions (approximate)	36mm (1.42in) Length x 25mm (1in) Width x 17mm (2/3in) Height

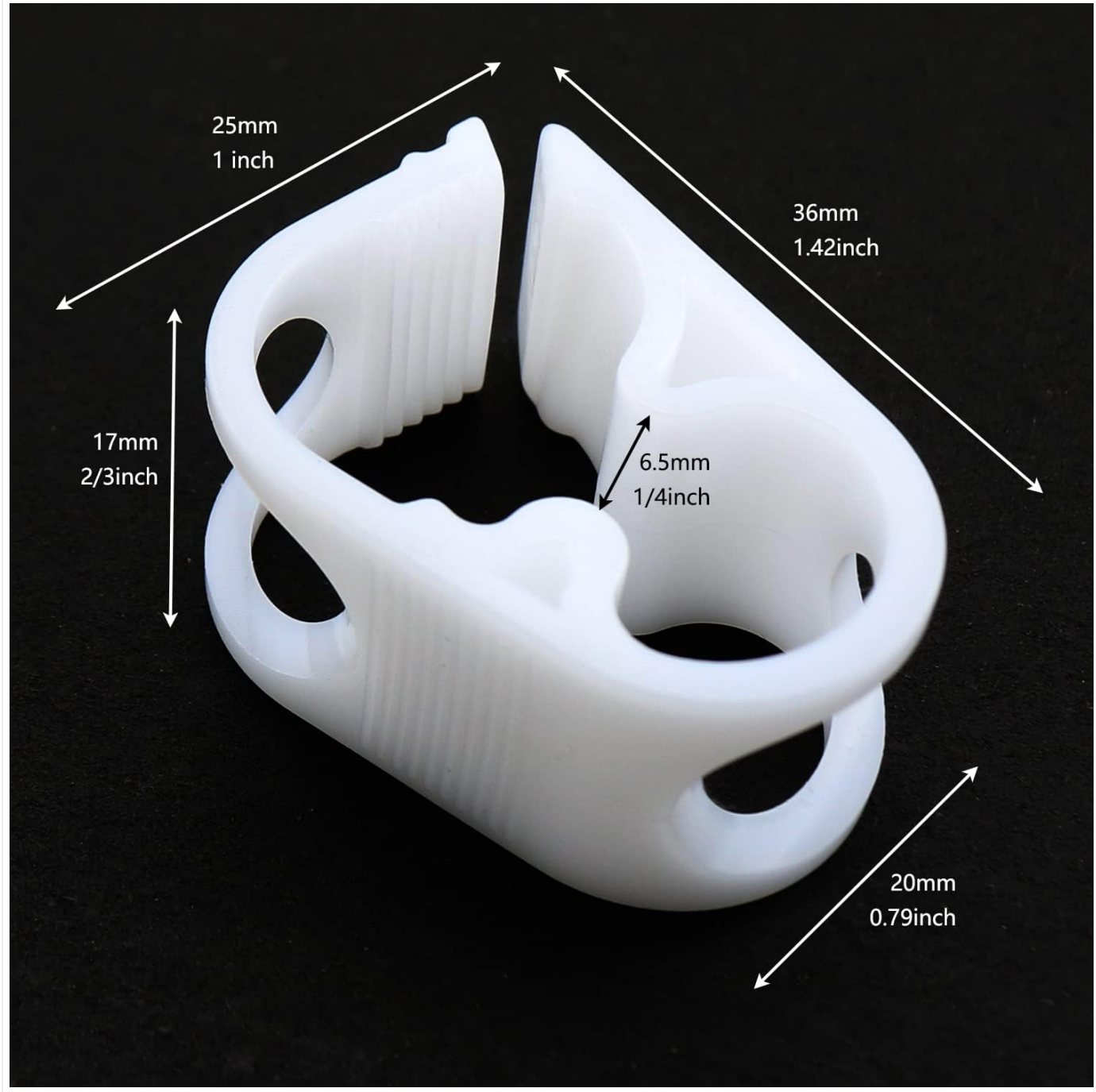


Figure 4.1: Detailed dimensions of a single LUORNG hose clamp.

5. Setup and Installation

The LUORNG Flow Control Hose Clamp is designed for simple and quick installation.

1. **Select Appropriate Tubing:** Ensure your flexible tubing has an outer diameter between 1/4" (6mm) and 1/2" (12mm). The clamp works best with flexible materials.
2. **Open the Clamp:** Gently press the two sides of the clamp to open its jaws.
3. **Position the Tubing:** Place the tubing into the open jaws of the clamp, ensuring it sits securely within the designated channel.
4. **Close the Clamp:** Release the pressure on the clamp, allowing it to close around the tubing. The clamp should hold the tubing firmly.
5. **Adjust Flow (Initial):** Before operating, ensure the clamp is in the desired flow position (fully open, partially open, or fully closed).

6. Operating Instructions

The clamp provides 6 adjustable levels for precise flow control.

1. **To Adjust Flow:** With the tubing inserted, gently squeeze the clamp to slightly release the pressure on the tubing. Slide the tubing within the clamp to align with one of the 6 notched positions. Each notch corresponds to a different level of compression, thus controlling the flow rate.
2. **To Stop Flow:** Slide the tubing to the position that provides maximum compression, effectively pinching the tube completely shut. This will stop the liquid flow.
3. **To Allow Full Flow:** Slide the tubing to the position that provides the least compression, allowing for maximum liquid flow through the tube.



Figure 6.1: The hose clamp in operation, controlling flow through a flexible tube.

Important Note: For optimal performance, especially for complete shut-off, ensure the tubing used is sufficiently flexible to be compressed by the clamp. Some specialized tubing, such as certain dual-head G-tube connectors, may not be compatible if they are too rigid or have an irregular shape that prevents proper sealing.

7. Maintenance

The LUORNG Flow Control Hose Clamps require minimal maintenance.

- **Cleaning:** Clean the clamps with mild soap and water. Rinse thoroughly and allow to air dry completely before reuse. Avoid harsh chemicals or abrasive cleaners that could damage the plastic.
- **Storage:** Store clamps in a clean, dry place away from direct sunlight and extreme temperatures to preserve material integrity.
- **Inspection:** Periodically inspect clamps for any signs of wear, cracks, or damage. Replace any damaged clamps immediately to ensure reliable performance and prevent leaks.

8. Troubleshooting

Problem	Possible Cause	Solution
Liquid still flows when clamp is fully closed.	Tubing is too rigid or not fully compressed. Tubing outer diameter is outside the specified range. Clamp is damaged.	Ensure tubing is flexible enough for compression. Verify tubing outer diameter is between 1/4" and 1/2". Inspect clamp for damage and replace if necessary.
Clamp does not hold tubing securely.	Tubing outer diameter is too small. Clamp is damaged or worn.	Verify tubing outer diameter is within the specified range. Replace clamp if it appears damaged or has lost its clamping force.
Difficulty adjusting flow levels.	Tubing is too stiff. Clamp is not fully opened during adjustment.	Ensure tubing is flexible. Gently squeeze the clamp to slightly release pressure before sliding to a new adjustment level.

9. Warranty and Support

For any questions, concerns, or support regarding your LUORNG Flow Control Hose Clamps, please contact the manufacturer or your point of purchase. While specific warranty details are not provided in this manual, most products come with a standard manufacturer's warranty against defects in materials and workmanship.
Please retain your proof of purchase for any warranty claims.
For further assistance, you may visit the LUORNG brand page on Amazon.

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