Peristaltic pump bridge



Overview

2-stop tubing is used for standard-sized peristaltic pumps. The two colored markers denote the size of the inner diameter.

Key Takeaways

A peristaltic pump bridge, also called a stop, is a plastic attachment that locks the tubing in place on a peristaltic pump, ensuring consistent fluid flow and proper positioning. Function of a BridgeIn a peristaltic pump, fluid is moved through flexible tubing by rollers that compress and release the tube in a circular motion. The bridge serves as a stabilizing point, holding the tubing securely in position so it does not slip during operation, which is critical for maintaining accurate and consistent flow rates.

Without a bridge, the tubing could shift, leading to inconsistent fluid delivery or potential damage to the tubing.

Design and Identification

Bridges are typically color-coded to indicate the size of the tubing they are compatible with, making it easier to select the correct tubing for a specific pump. Some peristaltic pump systems, such as Thermo Scientific iCAP™ Series ICP-OES systems, specify bridge distances (e.g., 95 mm for mini pumps or 152 mm for large pumps) to match the tubing and pump configuration. The bridge may also be referred to as a "stop" in some documentation.

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Practical Considerations

Tubing Compatibility: The bridge must match the tubing diameter and wall thickness to ensure proper compression by the rollers and prevent leaks or reduced pump life. Application Requirements: For medical or pharmaceutical applications, tubing and bridges may need to be sterilized before use. Maintenance: Tubing is generally treated as a consumable, and bridges help maintain consistent positioning until the tubing is replaced.

Summary

A peristaltic pump bridge is essential for accurate fluid handling, providing a fixed point that prevents tubing movement, ensures proper roller compression, and helps maintain consistent flow. When selecting tubing for a peristaltic pump, it is important to consider the bridge distance, tubing size, and material compatibility to achieve optimal performance.

Article Content

Peristaltic Pump Tubing for iCAP™ Series ICP-OES Systems

Our peristaltic pump tubing is designed for durability and meets the needs of any ICP-OES analysis. Pump tubing can be selected by size and is compatible with all iCAP™ Series ICP-OES systems

Standard 2-Stop Tubing

2-stop tubing is used for standard-sized peristaltic pumps. The two colored markers denote the size of the inner diameter. The markers also hold the tubing in place, stopping it from slipping while the

P-757, Peristaltic Tubing Stop Adapter, Standard Bore,

These 2-pack sets allows you to make your own stoppered tubing assembly for use with some peristaltic pumps, while also minimizing the amount of soft-walled

Peristaltic Pump Tubing | ESI

The markers also hold the tubing in place, stopping it from slipping while the pump is moving. Available in a wide range of diameters and lengths, choose the bridge

The Basics of Peristaltic Pumps & Tubing

A bridge, sometimes called a ''stop'' is a plastic attachment to the tube that locks the tube in position on a peristaltic pump. Bridges are colour coded to

Three Bridge Pump Tubes

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Pump Tubes wear when they are pinched between the roller and platen in a peristaltic pump. The pump tubes are held in position by the bridge or collar. By adding one additional bridge, we are able to

How to Easily Interface Peristaltic and Rigid Microfluidic Tubing?

In many applications, interfacing peristaltic and rigid microfluidic tubing is essential to combine the flexibility and pumping efficiency of peristaltic systems with the structural stability of rigid

3710052000 | Agilent

Pump tubing for UV/Vis instruments, 3 bridged, purple/black, 12/pk. Peristaltic pump tubing for pumping rinse with SPS 3/4 autosampler used with UV/Vis instruments, PVC, 3 bridged, purple/black tabs, 12/pk

5043-0063 | Agilent

Peristaltic Pump Tubing for ICP-OES Part Number: 5043-0063 SPS 3/4 High acid tolerant PVC Solvaflex Peristaltic pump tubing, 3-bridged, purple/white tabs, 2.79

Peristaltic Pump Tubing for iCAP™ Series ICP-OES Systems

Choose from the following Peristaltic Pump Tubing products for iCAP Series ICP-OES systems with a mini peristaltic pump (bridge distance of 95 mm): Sample pump tubing for aqueous solutions – ID

P-757, Peristaltic Tubing Stop Adapter, Standard Bore, 2-pack

Designed to Bridge between Rigid-Walled Tubing and Soft-Walled Tubing. Supplied in 2-pack. For use with 1.20-2.80 mm ID Peristaltic Tubing with an OD up to 4.55 mm. Our Peristaltic Tubing Adapter

Chapter F | MINIPULS® 3 Peristaltic Pump

Chapter F | MINIPULS® 3 Peristaltic Pump TUBING FOR R1, R2, R4, AND R8 TUBING FOR R2/HF & R4/HF PUMP HEADS HIGH FLOW PUMP HEADS

Viton® – Gradko

Featured Product Tubing Featured Product Viton has outstanding chemical resistance properties, anti-ageing properties and environmental resistance. It is especially suited to the transfer of aggressive

Peristaltic Pumps: A Comprehensive Guide

Peristaltic pumps are devices used for pumping small volumes of liquid in microfluidic systems. This comprehensive guide will cover the basics,

Control Peristaltic Pumps with Arduino Mega and L298N

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Hi huys, I''m really new to this kind of designs. I want to control the following peristaltic pump using the following L298N driver I already bought.

3710069200 | Agilent

SPS 3/4 High acid tolerant PVC Solvaflex Peristaltic pump tubing, 3-bridged, black/black tabs, flared ends, 0.76 mm id. For use with SPS 3/4 autosampler when pumping low volatile organic samples, 12/pk

Peristaltic pumps

Peristaltic pumps - how do they work? Peristaltic pumps, or tube pumps are a type of positive displacement pump. The pumps use the principle of peristalsis as the basis for their design.

3710049000

Description for Agilent SPS 4 Autosampler Peristaltic pump tubing, PVC SolvaFlex, 3-bridged, gray/gray tabs, for Agilent SPS 3 when pumping acidic or aqueous rinses

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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Continue your research online:

Website: https://dolphinspreschool.co.za
Technical inquiry: https://dolphinspreschool.co.za/project-desk.html
African project coordination: Waterfall City, Midrand, Gauteng, South Africa

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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