

Injectors Compatible with a 2 μ L Sample Loop - Tech Information

Date: 19-August-2016 Last Updated: 21-FEBRUARY-2026

Overview

Selecting the correct injector for a small-volume sample loop is critical to achieving accurate and reproducible injections in HPLC workflows. A 2 μ L loop requires an injector specifically engineered to handle ultra-low volumes without compromising precision, pressure integrity, or flow path geometry.

This guide explains which injector models are compatible with MICROSOLV's ARE-Appied Research brand 2 μ L sample loop and clarifies why certain injector types are suitable while others are not.

Compatible Injector Models

The 2 μ L sample loop (catalog #47001-002) is fully compatible with the following injector models:

- Rheodyne™ 9725
- Rheodyne™ 9725i

Both injectors are designed to support 2 μ L injection volumes with high accuracy, making them suitable for analytical applications requiring small, controlled sample introductions.

These injectors provide precise rotor-seal control and maintain consistent internal flow pathways necessary for small-loop operation.

Injector Type Requirements

The 2 μ L loop is designed specifically for use with Rheodyne-type injectors and is not compatible with Valco™ injector designs.

This distinction matters because:

- Rheodyne injectors use a flow-through architecture engineered for small loops.
- Valco injectors differ in port geometry and switching mechanics, preventing proper alignment and sealing with the 2 μ L loop.
- Using the wrong injector type could result in leakage, misalignment, or inconsistent injection volumes.

Selecting the correct injector ensures the sample loop delivers reproducible volumes and maintains proper chromatographic performance.

Ordering Information

Product images and ordering options for ARE-Applied Research brand of sample loops—including the 2 μ L model—can be accessed by clicking [HERE](#) for sample loop ordering information and pictures.

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MicroSolv Technology Corporation

9158 Industrial Blvd. NE, Leland, NC 28451

Tel: (732) 380-8900

Fax: (910) 769-9435

Email: customers@mtc-usa.com

Website: www.mtc-usa.com