

# High-Volume Solvent Delivery Systems



# Safety, efficiency and convenience

High-volume solvent delivery systems, available in 10L to 1000L, offer environmentally friendly solvent handling solutions for virtually unlimited applications, enhancing safety and improving productivity within your lab.

## Enhanced solvent safety

High-volume solvent delivery systems incorporate safety features to protect the lab and the environment by offering a unique combination of mechanical and manual controls to prevent unwanted solvent flow. The bottle-free, closed system eliminates the potential for glass bottle breakage and makes the risk of spills and exposure to vapors negligible.

## Reduce lab-operating costs

Increase lab efficiency by eliminating:

- Repeated solvent testing
- Multiple lots of material
- Bottle rinsing
- Disposal costs

## Environmentally friendly solution

- Reduce the amount of solid waste generated in your laboratory
- Minimize the release of flammable or toxic solvent liquids and vapors
- Eliminate bottle rinsing – empty containers are returned, cleaned and refilled

## For virtually unlimited applications

- High-performance liquid chromatography (HPLC)
- Preparative chromatography and high-volume gas chromatography sample preparation
- Process synthesis and extractions



# Tailored solvents and solvent blends

**Our catalogue range is developed for convenience, but our experience in developing, manufacturing, processing and testing high-purity solvents enable customization to your exact specification.**

We can tailor make solvents to meet your specifications for your application. In addition, our dedicated solvent-mixing facilities are available to produce high-quality blends.

The quality of highly specified HPLC solvents can be compromised in handling and storage. Experience has shown that nothing other than a dedicated blending facility, designed for the purpose, can produce highly specified blends accurately and without introducing new impurities.

## The facility

The new facility consists of '316 grade' stainless steel mixing vessels of 200L and 1,000L capacities situated in a dedicated zoned area. The vessels are fitted with air-driven stirrers and are situated on an electronic balance.

Solvents are charged by weight, through a 0.2-micron filter, by air-driven pump and/or by nitrogen pressure. Small amounts of solid and liquid additives are added via charge-ports. Hoses are made of PTFE and hose couplings are Hansen 'dry-break' type. All wetted surfaces are either PTFE or stainless steel.

## Operating practices

All blending and mixing operations are carried out according to written procedures. The mixing vessels are cleaned (CIP) before and after the mixing/blending operation and are left in a dry condition, filled with nitrogen, between operations.



## Product quality

On acceptance of a quotation for a 'bespoke' product, a sample will be prepared and the specification finalised with the customer. This specification will be formally defined in a document called a 'quality schedule' that will be signed by representatives of both Thermo Fisher Scientific and the customer. The quality schedule will be a full description of the customer's quality requirements, including packaging and labelling.

On manufacture, the components are charged and blended, and the resulting material is sampled to ensure the product quality. The material is then discharged into the final product containers by nitrogen pressure. The final product containers are then resampled and subjected to final testing and approval.

## Packaging

The final product can be packaged in stainless steel containers of up to 1000L.

# Ordering information

Products can be ordered through Fisher Scientific. However, we always recommend a technical review before purchase.

Please email your contact details and a brief description of your requirements to [begel.sha.quotes@thermofisher.com](mailto:begel.sha.quotes@thermofisher.com)

Quotations can also be requested from our website, [www.wesupportyourchemistry.com](http://www.wesupportyourchemistry.com)

Before we provide product in returnable drums, documentation will need to be completed. This ensures that your delivery schedule can be met and gives complete contact details to facilitate the returns process.



For more information, contact your local distributor.

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