

# Pumps in potentiometry



Safe and convenient transportation of liquids of all kinds

## Pumps in potentiometry – more safety, convenience, and reliability

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Large volumes of liquids are frequently transferred during titrations and measurements. In modern systems, such transfers are carried out by pumps. Pumps provide for the automatic transport and precise dosing of the respective solutions and/or of the water for any rinsing steps re-

quired. The benefits are obvious: The automated transfer of solutions makes working more convenient and saves time. Above all, however, it increases the safety of laboratory personnel.

- Aggressive or hazardous solution mixtures are collected directly in the waste canister without manual interaction, enabling straightforward and safe disposal.
- The beakers used are empty after the determination and already pre-rinsed enabling straightforward and risk-free cleaning in the dishwasher.
- Fully automated sequences guarantee that the electrode always undergoes identical cleaning and preconditioning. This enhances the accuracy and reproducibility of results.

**As a worldwide leading manufacturer of system solutions for titration and measurements of all types, Metrohm offers a complete line of suitable pumps.**



## Membrane pumps, peristaltic pumps, Level Control

The Metrohm pumps for potentiometry are available as membrane or peristaltic pumps with one or two channels. Some of them allow for direct button control.

### Membrane pumps

With a flow rate of at least 450 mL/min, Metrohm membrane pumps are the perfect choice for the fast addition of solvent. This greatly simplifies filling of the sample with solvent or spraying of the rinsing medium.



### Peristaltic pumps

Peristaltic pumps can be used universally, as the material of the tubing can be chosen to meet the requirements of the application. Mixtures of organic solvents or solutions with particles can also be transported easily. This makes the emptying of the titration beakers after a precipitation titration, or procedures such as a pH measurement of orange juice, simple and straightforward.



### Level Control

When large volumes of liquids are transferred without supervision, safety is paramount. The flow of the respective medium must be ensured at all times. This additional safety is provided by the Level Control. It prevents the waste canister from flowing over, or the pump from running dry increasing safety in the laboratory and making sure that all samples are processed exactly the same.



# Ordering information

## Membrane pumps

2.823.0010	823 Membrane Pump Unit
2.823.0020	823 Membrane Pump Unit «aspirate»
2.823.0030	823 Membrane Pump Unit «rinse»
2.843.0020	843 Pump Station (membrane)
2.843.0030	843 Pump Station (membrane) – rinse/aspirate for Compact Sample Changer
2.843.0050	843 Pump Station (membrane) – rinse/aspirate for Sample Processors

## Peristaltic pumps

2.772.0110	772 Pump Unit
2.772.0120	772 Pump Unit – aspirate
2.772.0130	772 Pump Unit – rinse
2.843.0120	843 Pump Station (peristaltic)
2.843.0130	843 Pump Station (peristaltic) – rinse/aspirate for Compact Sample Changer
2.843.0150	843 Pump Station (peristaltic) – rinse/aspirate for Sample Processors

## Optional accessories

2.849.0010	849 Level Control
2.849.0020	849 Level Control metal-free (for canisters)
2.849.0030	849 Level Control metal-free (for bottles)

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