

Dispensing solvents automatically

Exact concentrations made easy



Micro dosing valve

A micro dosing valve is used to dispense solvents automatically with levels of precision down to 1 mg. Pipettes and volumetric flasks are no longer necessary.



Upgrade your balance

When combined with the QLB, your METTLER TOLEDO XP205/204 can dispense solvents automatically. It has never been easier to prepare solutions in small quantities to a precise concentration.



Automated dispensing of solids and liquids

The Quantos dispenses substances in powder form automatically. With the QLB, you can continue to work with Quantos as you take the next step forward: automating the addition of solvents.



Dispense solvents automatically and accurately

Now you can use your METTLER TOLEDO's high-precision balance technology not only to weigh your substances, but also to prepare solutions of a precise concentration.

Quantos doses liquids in a thin jet with individual drops weighing just 1 mg. When combined with a METTLER TOLEDO XP balance or a Quantos, it can be used to prepare solutions with hitherto impossible levels of accuracy. Dispense the solid (tablet, paste or powder, for example) weighed automatically with Quantos or by hand. Next, specify the target concentration; Quantos QLB adds the exact amount of liquid automatically.

Quantos QLB

Extremely compact add-on for analytical balances and Quantos:

- XP205
- XP205 DeltaRange
- XP105 DeltaRange
- XP504
- XP504 DeltaRange
- XP204
- QB5

Existing balances can easily be retrofitted with Quantos QLB by experts from METTLER TOLEDO Service.



What QLB means for you:

- The solution added can be traced
- No need to spend time carefully filling a volumetric flask up to the calibration mark
- Pipettes do not have to be cleaned
- Solution is not spilled
- Excess dosing of substances is compensated by adding a corresponding amount of liquid
- Increased accuracy: volumetric methods struggle to achieve accuracy to within 10%; Quantos actually achieves accuracy to within 1%
- Volumetric flasks are no longer required

Technical data (with a QB5, and a solvent density of 1)

Minimum droplet	1 mg
Min. target concentrations	0.1 mg/ml (acc. to USP) 0.01 mg/ml (acc. to GxP)
Target accuracy	1 mg
Maximum flow rate	30 g/min
Liquids that can be dosed	Low-viscosity solvents, e.g., water, acetonitrile, methanol, ethanol

Liquid only comes into contact with chemically inert surfaces.

Accessories

For an XP balance, you need an QL-X45 adapter to attach the dispenser unit to the balance rack.

What does it mean to no longer use a volumetric flask?

- The need for time-consuming cleaning and cleaning validation is eliminated.
- There is no longer a high net weight on the balance increasing the minimum initial weight.
- The risk of using a flask that is too big or too small is eliminated. Such problems are difficult to detect.
- Money does not have to be spent on expensive flasks. The solution is dispensed directly into the target container.



Mettler Toledo AG

Laboratory & Weighing Technologies
CH -8606 Greifensee, Switzerland
Tel. +41 44 944 22 11
Fax +41 44 944 30 60

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