

Chemical Resistant Bottle Top Dispenser Laboratory Liquid Dispenser

Item Number: YY03



Introduction

Chemical resistant bottle top dispenser for precise laboratory liquid handling, offering 0.5 to 50 mL capacity, high temperature sterilization, PTFE FEP BSG and PP materials, excellent chemical compatibility, and dependable repeatability for demanding research workflows and routine quality control

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Application	Description	Key Benefit
Chemical Reagent Dispensing	Dispense acids, bases, solvents, and other laboratory reagents directly from storage bottles during sample preparation or routine testing.	Chemical-resistant wetted materials help support dependable service with demanding liquids.
Battery Materials Research	Deliver controlled volumes of electrolytes, solvents, additives, or processing liquids during electrode and cell-development experiments.	Repeatable dispensing helps reduce volume variation between research batches and test samples.
Advanced Materials Processing	Dose liquid binders, dispersants, modifiers, and other process fluids used in ceramics, powder metallurgy, and materials formulation.	Four capacity ranges support both small experimental batches and higher-volume preparation.
Pharmaceutical and Formulation Work	Transfer liquid ingredients during formulation development, laboratory batching, and controlled preparation procedures.	Defined accuracy and low coefficient of variation support consistent ingredient addition.
Quality-Control Laboratories	Dispense standard solutions, test reagents, and preparation liquids for repeated analytical or inspection procedures.	Stable, repeatable delivery improves workflow consistency across multiple samples.
Academic and Teaching Laboratories	Provide practical liquid-dispensing capability for chemistry, materials science, biology, and engineering experiments.	Simple operation, broad bottle compatibility, and economical maintenance support frequent shared use.
High-Cleanliness Workflows	Use high-temperature disinfection or sterilization as part of laboratory cleaning procedures where controlled equipment hygiene is required.	Sterilization capability supports repeatable cleaning protocols between applications.

Capacity range	Minimum graduation	Accuracy	Accuracy limit	Coefficient of variation	CV limit
0.5-5 mL	0.1 mL	A	$\leq \pm 0.5\%$ / 25 μL	CV	$\leq 0.1\%$ / 5 μL
1.0-10.0 mL	0.2 mL	A	$\leq \pm 0.5\%$ / 50 μL	CV	$\leq 0.1\%$ / 10 μL
2.5-25.0 mL	0.5 mL	A	$\leq \pm 0.5\%$ / 125 μL	CV	$\leq 0.1\%$ / 25 μL
5.0-50.0 mL	1.0 mL	A	$\leq \pm 0.5\%$ / 250 μL	CV	$\leq 0.1\%$ / 50 μL

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Parameter	Specification
Site-facing identifier	YY03
Construction materials	PTFE, FEP, BSG, PP
Maximum pressure resistance	500 mbar
Maximum viscosity resistance	500 mm ² /s
Maximum liquid temperature	40°C
Maximum liquid density	2.2 g/cm ³
Disinfection and sterilization	High-temperature disinfection and sterilization supported
Cleaning and maintenance	Simple and economical cleaning and maintenance design

Accessory	Specification
S40 bottle adapter	45/40 mm
GL32 bottle adapter	45/32 mm
GL38 bottle adapter	45/38 mm
GL25 bottle adapter	32/25 mm
GL28 bottle adapter	32/28 mm
Imported amber reagent square bottle	1 L