TECHNICAL DATA SHEET

ALab™ DispensMate-HF Hydrofluoric Acid Bottle-Top Dispenser

Hydrofluoric acid bottle-top dispenser · 1.0–10 mL · 0.2 mL increment · ceramic piston, cylinder, valve ball and seat · FEP inlet and outlet tubes · ISO 8655

ACS Material ALab™ DispensMate-HF Hydrofluoric Acid Bottle-Top Dispenser

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Revision Date **08/28/2026**

SECTION I

Product Overview

The ALab™ DispensMate-HF Hydrofluoric Acid Bottle-Top Dispenser is a bottle-top dispenser for hydrofluoric acid, designed for the characteristics of HF. One configuration is listed: a 1.0–10 mL dispensing range with a 0.2 mL increment, complying with ISO 8655. Listed component materials are high-purity ceramic for the piston, piston cylinder, valve ball and valve seat, special alloys for the valve spring, and FEP for the inlet and outlet tubes. Volume is set by a vernier-style adjustable volume guide rail, and a reflux valve design reduces reagent waste and helps prevent leakage during idle periods. The dispenser is designed to be disassembled, cleaned and maintained regularly. Compatible bottle-thread formats listed are S40, GL32, GL38, GL25 and GL28. Hydrofluoric acid is highly corrosive and hazardous to health; handle it only under HF-specific laboratory procedures and the applicable safety data sheet (Section IV).

SECTION II

Core Advantages

— Ceramic piston, cylinder, valve ball and seat — all four in high-purity ceramic materials; the valve spring is a special alloy, not ceramic

— Vernier-style volume setting — adjustable volume guide rail for fast, repeatable setting across 1.0–10 mL

— FEP tubing and alloy valve spring — inlet and outlet tubes in FEP, valve spring in special alloys, both selected for corrosion resistance

— Reflux valve design — reduces reagent waste and helps prevent leakage during idle periods; easy to disassemble and clean

SECTION III

Specifications

Technical data

Specifications	
Type	Bottle-top dispenser for hydrofluoric acid
Dispensing Range	1.0–10 mL · increment 0.2 mL
Working Accuracy	Listed per test volume — see the table below
Standard Compliance	ISO 8655
Piston / Piston Cylinder / Valve Ball / Valve Seat	High-purity ceramic materials
Valve Spring / Tubes	Valve spring in special alloys, selected for corrosion resistance · inlet and outlet tubes in FEP
Volume Setting / Reflux Valve	Vernier-style adjustable volume guide rail · reflux valve reduces reagent waste and helps prevent leakage during idle periods
Compatible Bottle-Thread Formats	S40 · GL32 · GL38 · GL25 · GL28
Dimensions · Weight	Confirm at quotation

Working accuracy — listed per test volume	
10 mL	Systematic error 50 µL · 0.5% — random error 20 µL · 0.2%
5 mL	Systematic error 60 µL · 1.2% — random error 20 µL · 0.4%
1 mL	Systematic error 60 µL · 6% — random error 20 µL · 2.0%

Accuracy is listed at three test volumes within the 1.0–10 mL range and the values are not interchangeable: at the 1 mL test volume the listed systematic error is 6% and the random error 2.0%. Accuracy values are provided only for the three test volumes shown. Do not interpolate or extrapolate between the listed points.

Scope of delivery

— ACS sales unit: 1 unit

— Reagent bottle and package configuration: confirm at quotation

— Hydrofluoric acid attacks glass rapidly — confirm bottle and container selection for HF service

— Package contents and configuration: confirm at quotation

— Options and spare parts: confirm at quotation

— Compatible bottle-thread formats are listed in Section III; package configuration is confirmed at quotation

SECTION IV

Applications

Typical applications for the ALab™ DispensMate-HF Hydrofluoric Acid Bottle-Top Dispenser include:

— Dispensing of hydrofluoric acid reagents in trace analysis

— Laboratories where HF is handled under dedicated procedures and containment

— ⚠️ Hydrofluoric acid is highly corrosive and hazardous to health. Handle it only under your laboratory's HF-specific procedures, with the personal protective equipment, engineering controls and emergency provisions set out in the applicable safety data sheet.

— This dispenser is intended for HF service; it does not remove the need for those controls.

Product value: 1.0–10 mL dispensing in 0.2 mL increments, ISO 8655 standard compliance, listed ceramic, alloy and FEP components, vernier-style volume setting, a reflux valve, and compatibility with the S40, GL32, GL38, GL25 and GL28 bottle-thread formats.

Revision Date: 08/28/2026

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