MICROLITLENTUS®

Bottle Top Dispenser for Hydrofluoric Acid

SPRING-LESS VALVE®



CE

ISO 9001

ISO 14001

UK

ISO 13485

ISO 17025

We are World Leaders in
Bottle Top Dispensing Technology

MICROLIT LENTUS® Bottle Top Dispenser (BTD) is a high precision liquid handling instrument engineered with carefully selected and tested materials for use with Hydrofluoric Acid (HF).

MICROLIT LENTUS® can precisely dispense high-purity media. When high-purity materials are dispensed with the dispenser after appropriate cleaning, they release virtually no metal ions.

Built by our in-house team of product design engineers, it uses Springless Valve®, an award winning technology, and Recirculation Valve for preventing loss of reagent during purging.

MICROLIT LENTUS® also features two product innovations, EasyKnob® and FlexiNozzle® that enhance its ease of use and flexibility.

Designed with ergonomics and intuitive handling in mind, it exhibits excellent chemical compatibility with HYDROFLUORIC ACID (HF) a nd other reagents and chemicals to achieve precision and safety with reliability in practical laboratory environments.

Experience the Power of Precision and Safety in HYDROFLUORIC ACID DISPENSING.



Change Volume with EasyKnob®
EasyKnob® is a specially designed volume adjustment knob that allows 180° rotation for easy and effortless volume setting.



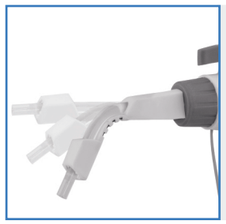
Move Effortlessly with a PTFE Piston
A PTFE Piston with an ETP O-Ring facilitates smooth and effortless movement and ensures high chemical compatibility.



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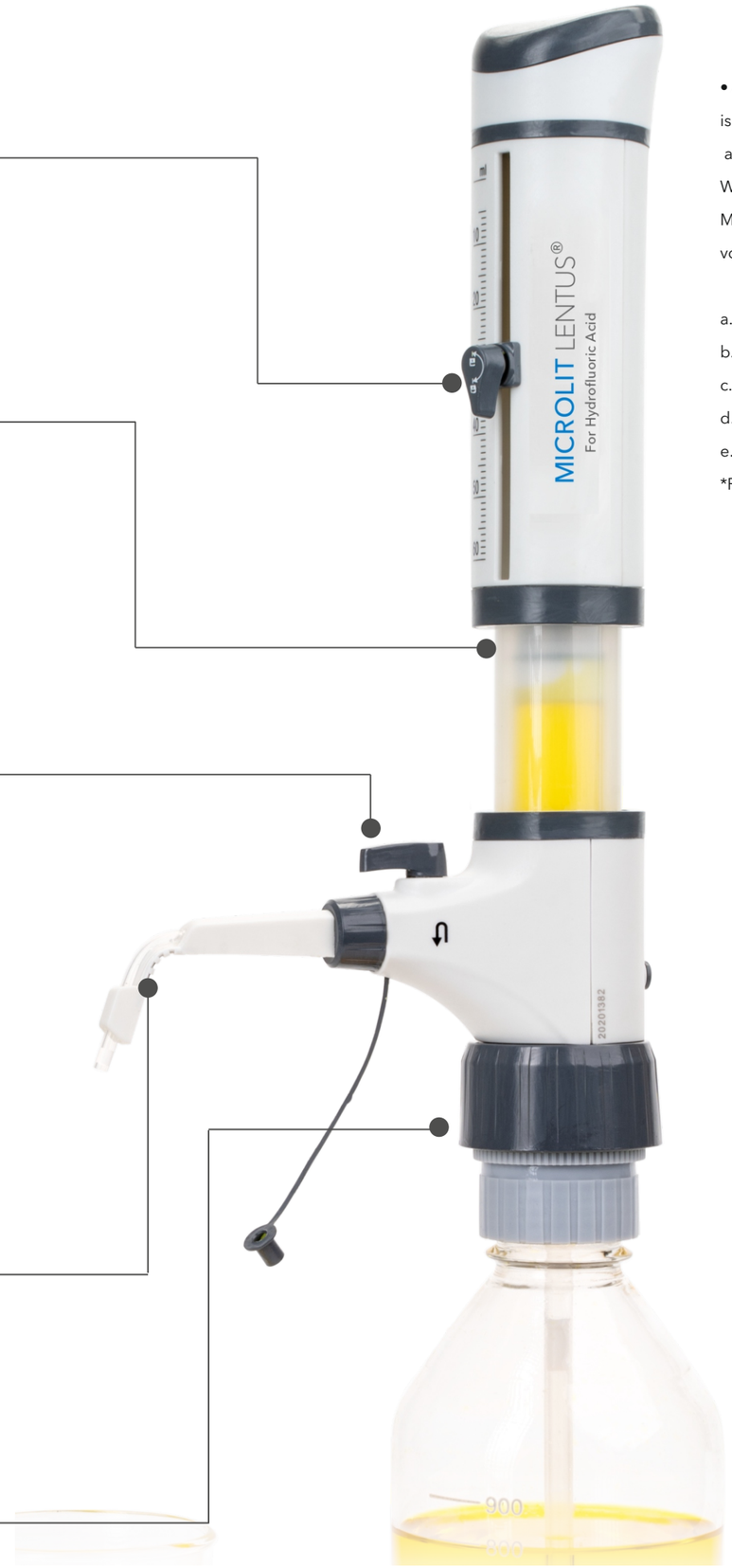
Operate Jam-free with Springless Valve®
MICROLIT LENTUSR comes with an award-winning technology, Springless Valve®, that facilitates smooth and jam-free functioning.



Dispense Easily with FlexiNozzleR®
Flexi NozzleR is an adjustable delivery nozzle. It offers a high degree of flexibility, facilitating easy dispensing in demanding laboratory conditions.



Work Flexibly with a 360° Adapter
A specially designed Adapter allows 360° rotation, facilitating complete work flexibility.



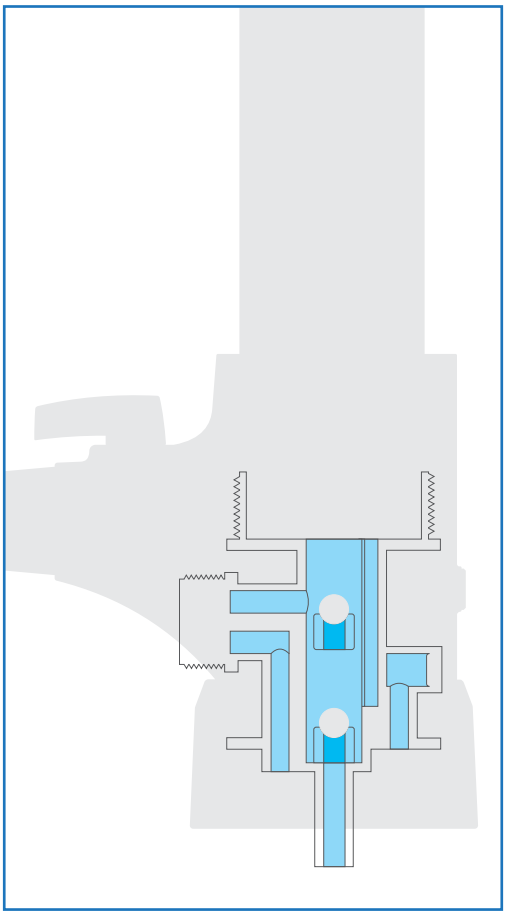
• Autoclaving Parameters MICROLIT LENTUS®
is fully autoclavable at 121°C and 15 psi for
a duration of 10-15 minutes.
Work with a Comprehensive Volume Range
MICROLIT LENTUS® is available in five unique
volume ranges:

a. 0.25-2.5 ml
b. 0.5-5 ml
c. 1-10 ml
d. 2.5-30 ml
e. 5-60 ml
*Refer to the specifications and ordering information.

Excellent compatibility with Hydrofluoric Acid
Hydrofluoric Acid (HF) is a highly corrosive liquid and standard organic & inorganic reagent dispensers are not designed to be used with it. MICROLIT LENTUSR is engineered with carefully selected and tested materials for use with Hydrofluoric Acid.

Enhance your Productivity with Springless Valve® Technology

Traditional Bottle Top Dispensers contain two valves with glass balls:



Inlet Valve - This valve is vertical. It operates under gravity and does not require a spring to hold the glass ball in its position, in order to keep the valve closed.

Outlet Valve - This valve is horizontal. It requires a spring to keep the glass ball in its position, in order to keep the valve closed while aspirating reagents in the barrel. It opens only when a reagent is being dispensed. **The spring housed in the Outlet Valve, poses a lot of problems** including metal reactivity and availability of a surface for deposition of chemicals. This results in a piston jam, thereby compelling the user to repeatedly clean the valve, or replace it altogether.

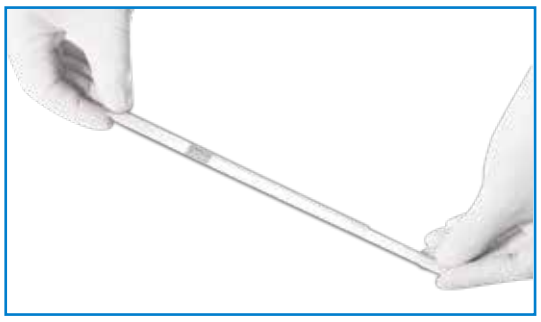
Our product design engineers have expertly addressed these problems by designing a system where both Inlet and Outlet Valves are vertical and hence do not require any spring. This Springless Valve® Technology ensures that LENTUS®offers smooth, jam-free piston movement and also service-free operation.
The valve system of MICROLIT LENTUS® consists of high purity ceramic components to ensure maximum resistance to Hydrofluoric Acid (HF).

Work with a Sophisticated Accessory Range that Enhances Flexibility



Adapters

The instrument comes with five adapters that comfortably fit most laboratory reagent bottles. The available sizes are –
28 mm, 32 mm, 38 mm, 40 mm and 45 mm.



Extendable Tube

A Telescoping Tube, that can be adjusted according to a variety of bottle sizes, is provided as an inside-the-box accessory.

*ISO 8655 is the globally accepted industry standard for piston-operated volumetric apparatus. The evaluation was performed by trained and certified personnel at an ISO17025 accredited lab.

The precision and accuracy of our liquid handling instruments is twice better than industry standards.*

Assured Quality with ISO 8655 Conformed Calibration



MICROLIT LENTUS® is calibrated in an ISO 17025 accredited laboratory according to ISO 8655 standards.

A calibration certificate is included inside the product package.

A calibration tool is also included for quick in-lab recalibration.

Award-winning Design and Product Excellence

Microlit has been recognized for its innovation and leadership with several prestigious awards, including the **Japanese Good Design Award, CII Industrial Innovation Awards,** and a spot in the **Top 50 Most Innovative Companies of 2022**. This year, we proudly received the **Global Business Leadership Award** from **ET Now Leaders of Tomorrow 2025**, further solidifying our position as a global leader in Healthcare and Life Sciences Industry.

SPECIFICATIONS AND ORDERING INFORMATION

Model No.	Vol. Range	Increment	Accuracy ±%	Accuracy ±ml	CV ±%	CV ±ml
LNT-HF-2.5	0.25-2.5 ml	0.05 ml	0.5	0.0125	0.2	0.005
LNT-HF-5	0.5-5 ml	0.1 ml	0.5	0.025	0.2	0.010
LNT-HF-10	1-10 ml	0.2 ml	0.5	0.050	0.1	0.010
LNT-HF-30	2.5-30 ml	0.5 ml	0.5	0.150	0.1	0.030
LNT-HF-60	5-60 ml	1.0 ml	0.5	0.300	0.1	0.060

The error limits (Accuracy and Coefficient of Variation) mentioned above are in accordance with the nominal capacity (or maximum volume) indicated on the instrument.
These are obtained by using the instrument with distilled water at equilibrium, the ambient temperature of 20 °C while operating it smoothly and steadily.
The error limits are in accordance with DIN EN ISO 8655-5.

EXPERIENCE PRECISION

MICROLIT

OUR REACH



YOUR SATISFACTION IS OUR PRIORITY

Established in 1991, Microlit is one of the world's leading manufacturers & exporters of laboratory liquid handling instruments. Our product range includes micropipettes, bottle top dispensers, electronic burette, electronic pipette filling device and other micropipette accessories. With our patented products, innovative technologies & unfaltering trust of 8000+ consumers in 95+ countries, we are recognized as a respected & dependable brand in Healthcare and Lifesciences industry. Our offices are located in India (HQ), USA & Brazil. With a research-oriented & customer-centric team of product design engineers, our product design blends the best of functional performance & user experience. Our innovative products have helped us carve a niche in R&D industry while providing our users high level of precision & accuracy in their research work.

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