

# MICROLIT BEATUS

Bottle Top Dispenser with Recirculation Valve  
and Springless Valve® Technology

SPRING-  
LESS  
VALVE®



**We are World Leaders in  
Bottle Top Dispensing Technology**

MICROLIT BEATUS is a Bottle Top Dispenser (BTD) that offers a sophisticated blend of features and functionality.

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 BEATUS 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 and helps achieve precision with reliability in practical laboratory environments.

**Experience the Power of Precision  
in Your Daily Laboratory Routine**



**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.



**Re-direct Liquids with  
Recirculation Valve**

Recirculation Valve prevents the loss of reagents during purging by re-directing them into the mounted bottle and facilitates bubble free dispensing.



**Operate Jam-free with  
Springless Valve®**

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



**Dispense Easily with FlexiNozzle®**

FlexiNozzle® 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 BEATUS is fully autoclavable at 121 °C and 15 psi for a duration of 10 - 15 minutes.

- **Work with a Comprehensive Volume Range**  
MICROLIT BEATUS is available in six unique volume ranges:
  1. 0.25-2.5 ml
  2. 0.5-5 ml
  3. 1-10 ml
  4. 2.5-30 ml
  5. 5-60 ml
  6. 10-100 ml*\*Refer to the specifications and ordering information.*

## Assured Quality with ISO 8655 Conformed Calibration



MICROLIT BEATUS 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



Our products reflect the design philosophy of our organization, combining the best performance parameters with the best user experience.

We were honoured by **CII Industrial Innovation Awards** and **adjudged a place in the top 50 Most Innovative Companies of 2022.**

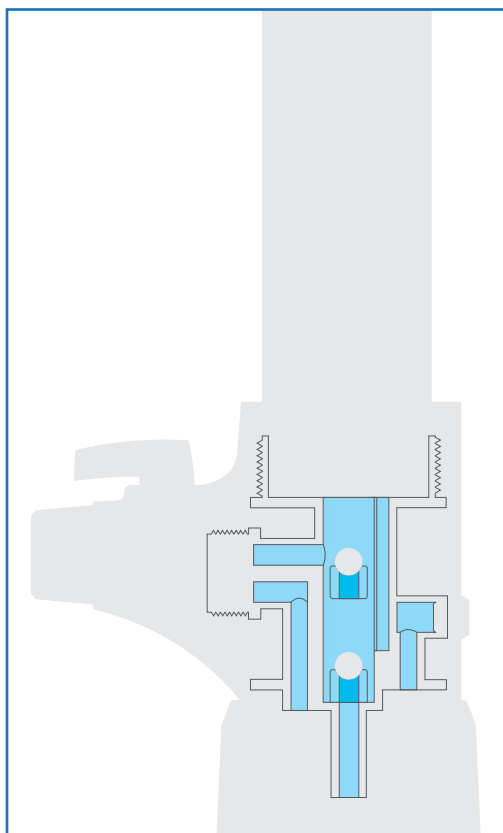
We are also accredited by a number of global organizations and have earned worldwide credibility.

## SPECIFICATIONS AND ORDERING INFORMATION

Model No.	Vol. Range	Increment	Accuracy		CV	
			±%	±ml	±%	±ml
BEAT-2.5	0.25-2.5 ml	0.05 ml	0.5	0.0125	0.2	0.005
BEAT-5	0.5-5 ml	0.1 ml	0.5	0.025	0.2	0.010
BEAT-10	1-10 ml	0.2 ml	0.5	0.050	0.1	0.010
BEAT-30	2.5-30 ml	0.5 ml	0.5	0.150	0.1	0.030
BEAT-60	5-60 ml	1.0 ml	0.5	0.300	0.1	0.060
BEAT-100	10-100 ml	2.0 ml	0.5	0.500	0.1	0.100

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.

## 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:**

- The user has to procure different kinds of Bottle Top Dispensers for different applications owing to spring metal reactivity. This proves to be an expensive proposition.
- Apart from this, the spring also offers 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 makes MICROLIT BEATUS a Universal Bottle Top Dispenser that can be conveniently used with both organic and inorganic reagents. It not only offers smooth, jam-free piston movement but also ensures service-free operation.

## 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.

## OUR REACH



## YOUR SATISFACTION IS OUR PRIORITY

Microlit products follow GMP norms and are manufactured under comprehensive QA (Quality Assurance) & QC (Quality Control). Our products reflect the design philosophy of our organisation combining the best performance parameters with the best user experience. However, if you are dissatisfied with the operation of any of our products, get in touch with us or call your nearest Microlit dealer for free replacement.

## CONTACT US

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