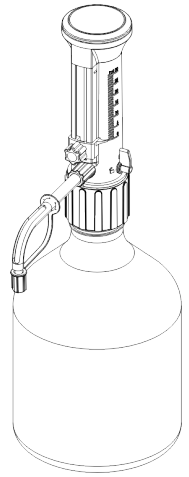
LABQUEST BY BOROSIL®

LABORATORY LIQUID DISPENSER 30ML

OPERATING MANUAL
LLD030



Laboratory Liquid Dispenser

Laboratory liquid dispensers provide a simple, easy and safe means of dispensing liquid. This can handle a wide variety of liquid ranging from acids, solvent and alkalies and also can dispense the varying volume of the liquid with low to moderate accuracy. The Dispenser can lock the harmful vapors which prevents inhalation during storage. The Dispenser helps in conserving laboratory volatile solvents by preventing vapor escape during storage.

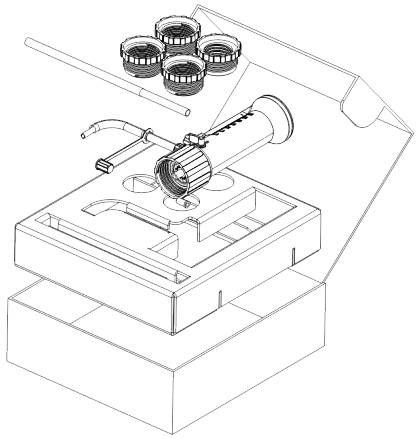
Operating Exclusions

Never use the dispenser with:

- Liquids attacking plastic materials such as PTFE, PFA and FEP (e.g. dissolved sodium azide)
- Liquids that attack borosilicate glass (e.g. Hydrofluoric acid)
- Hydrochloric acid > 40% and nitric acid >70%, Tetrahydrofuran, Trifluoroacetic acid
- Explosive liquids (e.g. carbon disulfide)
- Suspensions (e.g. of charcoal) as solid particles may clog or damage the instrument
- Liquids attacking PP (cap)
  * Dissolved sodium azide permitted up to a concentration of max. 0.1%.

Whats in the Box

1. Dispenser
2. Bottle Adaptors
3. Teliscopic Tube
4. Operation Manual



Guidelines for Return

Follow these guidelines before sending the instrument for repair:

- Please clean the instrument carefully.
- On no account should the sent instrument contain any reagent.
- The sent instrument can only be checked and repaired if it has been carefully cleaned and decontaminated beforehand.
- Forcefully opening the instrument invalidates any warranty claim.
- While packing the instrument for return, please enclose a detailed description of the trouble that has occured and the reagents that were used with the instrument.

Safety Instructions

This instrument may sometime be used with hazardous materials, operations and equipments. This manual does not address all of the potential risks associated with the usage of dispenser in such applications. It is the responsibility of the user to consult and maintain appropriate safety and health practice and determine the applicability of regulatory limitations prior to the usage.

Storage Conditions

Store the instrument and accessories only in clean conditions in a cool and dry place. Storage temperature: from – 20°C to +50°C (from – 4°F to 122°F)

Limitations of use

This instrument is designed for dispensing liquids, observing the following physical limits:

- Operation temperature : +15°C to +40°C of and max reagent Vapor pressure 600 mbar.
- Aspirate slowly above 300 mbar, in order to prevent the liquid from boiling.
- Kinematic viscosity 500 mm2 /s (dynamic viscosity [mPas] = kinematic viscosity [mm2 /s] x density [g/cm3])
- Density: up to 2.2 g/cm3

Operating Limitations

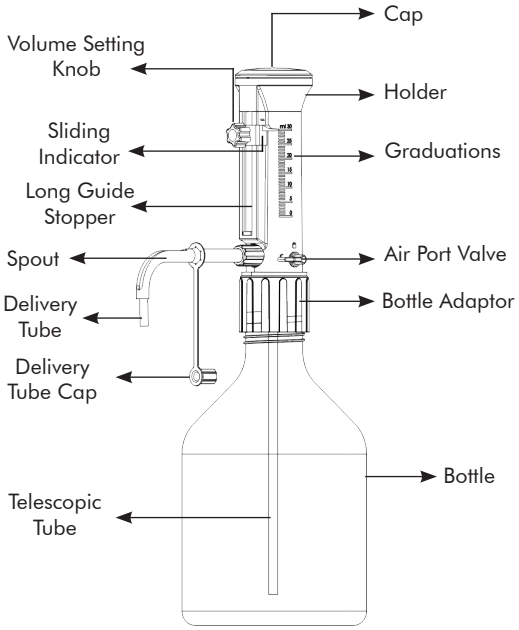
Liquids, which form deposits may make the piston difficult to move and even may cause jamming (e.g.,crystallizing solutions or concentrated alkaline solutions). If the piston becomes unable to move, the instrument should be cleaned by user immediately. When dispensing inflammable media, make sure to avoid buildup of static charge, e.g. do not dispense into plastic vessels, do not wipe the dispenser with a dry cloth. The Dispenser is designed for general laboratory applications. Approvals for specific applications, like production and administration of food, pharmaceuticals and cosmetics are not available.

Cleaning

The Dispenser should be cleaned in the following situations :

- All maintenance should be carried out wearing suitable eye protection and protective clothing.
- Clean the Dispenser outer body by using a suitable cleaning reagent.
- Do not wipe the dispenser with dry cloth. This may buildup the static charge on plastic bodies of the dispenser.

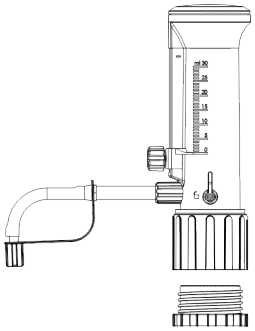
Part Identification



Assembly Procedure

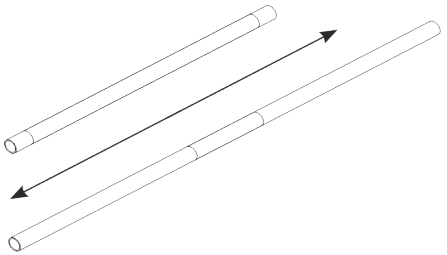
First Step:
Now insert the required GL Adaptor onto the GL thread that is already present in dispenser. The adaptor should be based on the glass bottle on which it is used. As shown in the image.

1



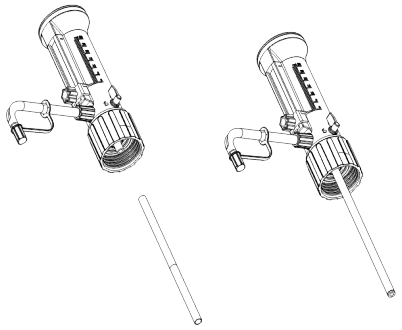
Second Step:
Adjust the telescopic tube to the desired length based on the bottle height.

2



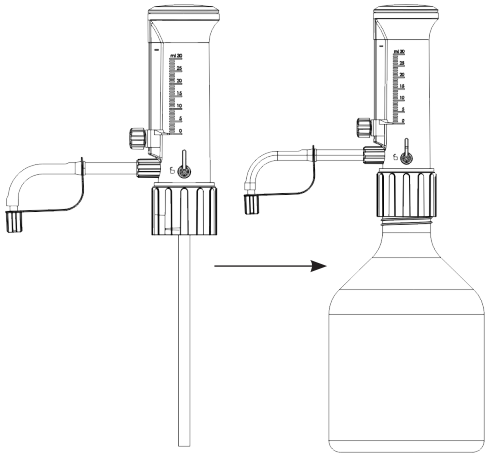
Third Step:
Insert the telescoping filling tube to the Dispenser in the bottom side as shown in the image.

3



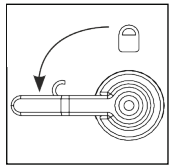
Fourth Step:
Once all the given instructions are followed, the final assembly of the dispenser will look similar as shown in the image below. After this user can assemble the dispenser on top of the bottle having the GL threading similar to the adapter in the dispenser.

4

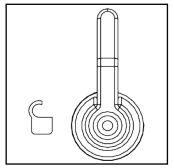


Volume Setting

1. Make sure that the Air Port knob is in the unlock position before lifting the dispenser holder to prime.
2. Rotate the volume setting knob in counter clockwise direction to move the sliding indicator.
3. Lift and place the sliding indicator against the graduation that is marked on the outer body of the dispenser to dispense the desired volume.
4. Now rotate the volume setting knob in the clockwise direction this will fix the slider indicator knob in its position.
5. Lift the holder until the long guide stopper hits the slider indicator this will make the liquid to be filled inside the dispenser glass tube.
6. Now push the holder down to the bottom most position this will dispense the volume that is set.



Air Port Valve Open

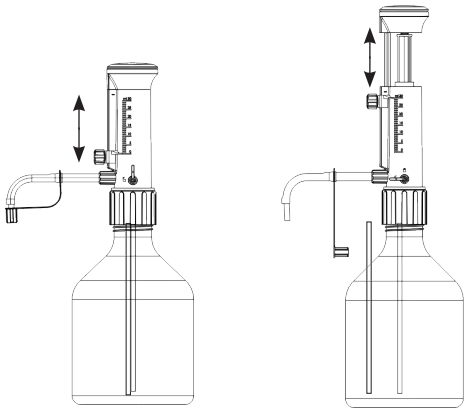


Air Port Valve Close

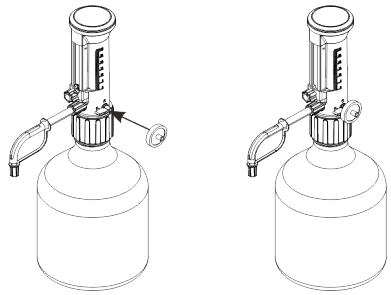
Priming

For priming gently lift the holder. To avoid splashes when priming, place the discharge tube on the inner wall of the receiving vessel. Prime until there is no bubble coming from the delievery tube. Repeat this procedure 3 times this will remove all the trapped air bubbles.

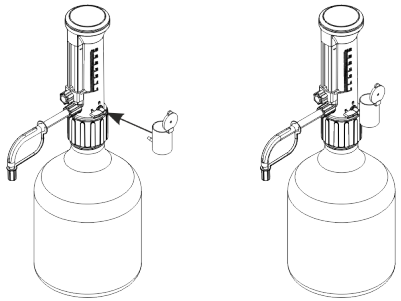
Note :
Before using the instrument for the first time, ensure it is rinsed. Discard the first few samples dispensed.



Accessories Attachment



Filter Attachment



Desiccant Attachment

Troubleshooting

Please use the below link for detailed video regarding Troubleshooting Guidelines :

www.borosilscientific.com

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AFFIX

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