

Thermo Scientific Nalgene Self-Zeroing Buret Kit

Cat. No. 3645-2550

Kit Includes:

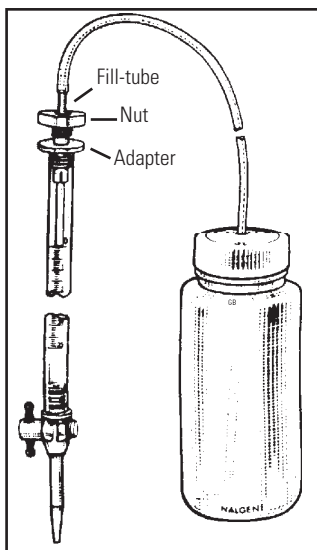
- 1000 ml low-density polyethylene reservoir bottle with polypropylene screw closure
- 4 ft. (1.2 m) of Nalgene® 380 Clear PVC Plastic Tubing
- Polypropylene fill-tube and adapter (Buret not included)

The Nalgene Self-Zeroing Buret Kit provides a quick and accurate way to fill AND zero any 25 or 50 ml buret - plastic or glass. This system is more convenient than manual zeroing, and the chance of spillage is greatly reduced.

The kit can be used with almost all aqueous titrants since they are normally used in diluted form. The PVC tubing may absorb water and cloud slightly, but this will NOT affect the operation of the unit.

This kit is not recommended for use with concentrated acids, concentrated bases or solvents.

You may wish to purchase extra reservoir bottles for use in the field or for holding different titrants. Request Nalgene Cat. No. 2103-0032 from your labware dealer.



Assembly

1. The 4 ft. (1.2 m) length of tubing supplied with this kit has one end already attached to a rigid polypropylene fill-tube. Insert the other (flexible) end of tubing through hole in the closure, far enough that the tubing can touch the bottom of the bottle. (You may wish to cut off and discard any excess tubing, particularly when using a 25 ml buret).

NOTE: If you need to replace tubing, dip one end in boiling water before attaching the rigid polypropylene fill-tube. The heat will soften the PVC and facilitate insertion. As the PVC cools, it will shrink and fit more securely.

2. Remove undrilled closure from reservoir bottle and replace with closure that has the tubing inserted.
3. Slide nut over fill-tube, keeping hollow side of nut down (toward end of fill-tube).
4. Slide adapter onto fill-tube, with large end first for 25 ml buret, or small end first for 50 ml buret.
5. Tighten nut 1/4 turn in either direction to lock assembly in place.
6. Insert adapter into buret until firmly seated against top of buret.

Operation

- Fill reservoir bottle with titrant and be sure to screw closure on bottle **tightly**.
- Loosen nut. Align end of fill-tube with the “zero” line on the buret, as shown in illustration. Tighten nut 1/4 turn.
- Squeeze bottle in a firm, continuous motion to fill buret, **until liquid is just above the “zero” line**. You may wish to use two hands to exert proper pressure on the bottle. As you release pressure on the bottle, liquid level will drop back to the “zero” line and excess liquid will return to the bottle.
- Check accuracy of your zeroing. Adjust fill-tube as necessary until exact zeroing is achieved. **Once fill-tube is adjusted properly, zeroing will be automatic.**

When you change to a different titrant, it is important that you again check the accuracy of your zeroing. The change in surface tension of the new solution **may** necessitate a readjustment of zeroing.

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