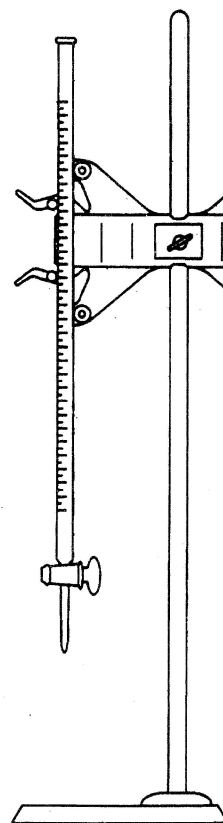


3. The tip of the pipet must be kept under the surface of the liquid being measured out during the entire time suction is being applied, or air will be sucked into the pipet.
4. Allow the pipet to drain for at least a minute when emptying to make certain the full capacity of the pipet has been delivered. Remove any droplets of liquid adhering to the tip of the pipet by touching the tip of the pipet to the side of the vessel that is receiving the sample. Do not blow any remaining liquid out of the pipet tip (this is allowed for in the calibration of the pipet).
5. If you are using the same pipet to measure out several different liquids, you should rinse the pipet with distilled water between liquids, and follow with a rinse of several small portions of the next liquid to be measured.

C. Burets

When samples of various sizes must be dispensed or measured precisely, a buret may be used. The buret consists of a tall, narrow calibrated glass tube, fitted at the bottom with a valve for controlling the flow of liquid. The valve is more commonly called a **stopcock**. (See Figure 2-7.)

Figure 2-7. A volumetric buret. Typically, 50-mL burets are used in introductory chemistry labs. The liquid level in the buret should be read to *two decimal places*. Burets are usually supported on a ring stand with a special buret clamp.



Like a pipet, a buret must be scrupulously clean before use. The precision permitted in reading a buret is 0.02 mL, but if the buret is not completely clean, this level of precision is not attainable. To clean the buret, first use soap and water, using a special long-handled buret brush to scrub the interior of the glass. Then rinse the buret with tap water, followed by several rinsings with distilled water.

Before use, the buret should be rinsed with several small portions of the solution to be used in the buret. The buret should be tilted and rotated during the rinsings, to make sure that all rinse water is washed from it. Discard the rinsings. After use, the buret should again be rinsed with distilled water. Many of the reagent