large volume pipette with excellent chemical resistance

Large-volume pipettes are laboratory tools designed for the quantitative transfer of large volumes of liquids, often used with glass or plastic pipettes from 0.1mL to 100mL.
Model: TL01

Large Volume Pipette

Main Features

1. Wide range compatibility: Handles pipettes from 0.1 mL to 100 mL—ideal for diverse sample volumes.
2. Strong chemical resistance: Body and seals made of corrosion-resistant materials—suitable for acids, bases, and more.
3. Ergonomic design: Flexible lever control and finger rest—comfortable for prolonged use.
4. Lightweight & sturdy: Built for long-term, continuous operation—reduces fatigue.
5. Multi-functional buttons: Separate suction, discharge, and blow-out controls for precise liquid handling.

6. Autoclavable: Entire device can be sterilized at 121°C for 20 minutes—ensures aseptic operation.
7. Standard filter: Prevents liquid or aerosols from entering the internal air path—enhances user and sample safety.

Advantages

1. High efficiency: More reproducible and efficient than traditional suction methods.
2. Safer: Aerosol-blocking design avoids contamination—ideal for biological samples.
3. Easy maintenance: Simple disassembly and replaceable filters for quick cleaning.
4. Cost-effective: Reduces sample waste, extends service life.
5. Strong compatibility: Works with multiple brands and pipette specifications.

Working Principle

1. Air displacement: Rubber bulb system changes internal air pressure to aspirate, dispense, and blow out liquid.
2. Suction: Squeeze the bulb to expel air, release to draw liquid up via atmospheric pressure.
3. Discharge: Toggle the lever to open the valve, allowing liquid to flow out by gravity and air pressure difference.
4. Blow-out: Press the blow-out button to expel residual liquid for complete transfer.

Application Fields

1. Biological experiments: Dispensing culture media, buffers, and reagents in large volumes.
2. Chemical analysis: Quantitative titration, solution prep.
3. Environmental monitoring: Liquid transfer for water/atmospheric samples.
4. Food & drug testing: Sample addition, homogenization.
5. Teaching/research: Lab demonstrations, liquid handling for academic purposes.