

Glass Cylinder Calibration Instructions

Note: Before starting the calibration procedure below, ensure that the pump is primed and void of any trapped air.

Using the ml scale: (scale is based on **volume** pumped, over any given time)

1. Fill the calibration cylinder to the top mark with the liquid to be dispensed. This can be accomplished by manually filling the cylinder, or, if the feed tank level is higher than the cylinder, by opening the isolation valve below the cylinder and back filling the cylinder.

Caution: Never leave unattended when back filling the cylinder.

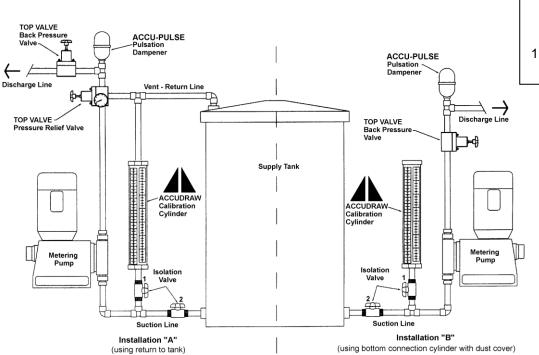
- 2. With the calibration cylinder full of the liquid to be dispensed, start the metering pump and operate at 100% output until all air is removed from both suction lines and pump head.
- 3. Shut pump "OFF".
- 4. With calibration cylinder full, close isolation Valve (#2) from supply tank, and open isolation valve (#1) below cylinder.
- 5. Start the pump.

- 6. Using a stop watch, measure the volume dispensed in 60 seconds.
- 7. Multiply the measured volume by 60 to find your **ml per hour** volume.
- 8. Adjust the pump volume control, higher or lower to meet with your desired output.
- 9. Repeat above steps 4 through 8 until your desired output is met.

If you wish to shorten the time of dispensing for calibration by one half (1/2) or one quarter (1/4), you must multiply the volume by the same number used to divide the time by to determine ml per minute or hour.

e.g. 100 ml in 60 seconds equals 50 ml X 2 in 30 seconds or 25 ml X 4 in 15 seconds

Typical Installations ("A" and "B")



Conversion Factors

1ml = 1 cc 1000 ml - 1 liter ml/sec x 60 = ml/min 1 US gal/min x 0.063 = liters/sec 1 US gal = 3.786 liters

Caution:

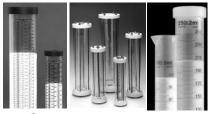
<u>Do not</u> use as a Pressure Vessel



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ACCUDRAW Calibration Cylinders



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- PVC, glass, polypropylene
- translucent, chemical resistant
- coloured graduations and lettering
- threaded or socket connections
- standard sizes 100 ml to 20,000 ml

Custom built in other sizes and materials.

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- long life diaphragm
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- air release, optional gauge port
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- colour coded handles indicate size

Designed to enhance the <u>accuracy</u> and <u>safety</u> of your metering pumps.

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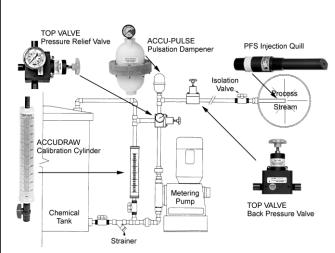
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Designed to remove pulsating flows from positive displacement pumps.

- increase system efficiency and pump life
- · decrease maintenance and costs
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- ensure meter accuracy, longevity and repeatability
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- lightweight, compact design

Typical Metering Pump System



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PFS Injection Quills



Designed to inject chemical into the center stream of process.

- provides for a more homogenous mix in the pipeline
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- PVC, CPVC, PVDF, polypropylene, Stainless, Hastelloy C & Titanium
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- isolation valve allows for ease of maintenance
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- wetted components have comparable or greater chemical resistance than quill construction material
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