



ACCUDRAW® PVC Calibration Instructions

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

Using the USGPH scale: (scale is based on time, in one (1) minute volume discharge)

1. Fill the calibration to the top "0" mark on the USGPH scale.
2. Close isolation valve (#2) from supply tank, open isolation valve (#1) below cylinder and start the pump.
3. Use a stopwatch to measure the time of one (1) minute (60 seconds) and record the volume dispensed by the metering pump, using the draw down scale.
4. Adjust the pump volume control higher or lower to meet with your desired output.
5. Repeat above steps 1 through 4, until the desired output is met.
6. Divide the measured USGPH number by 60 to determine the **USGPM volume**, if required.

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 measured volume by the same number used to divide the time by.

e.g. 10 USGPH in 1 minute equals
 5 USGPH X 2 in 30 seconds or
 2.5 USGPH X 4 in 15 seconds

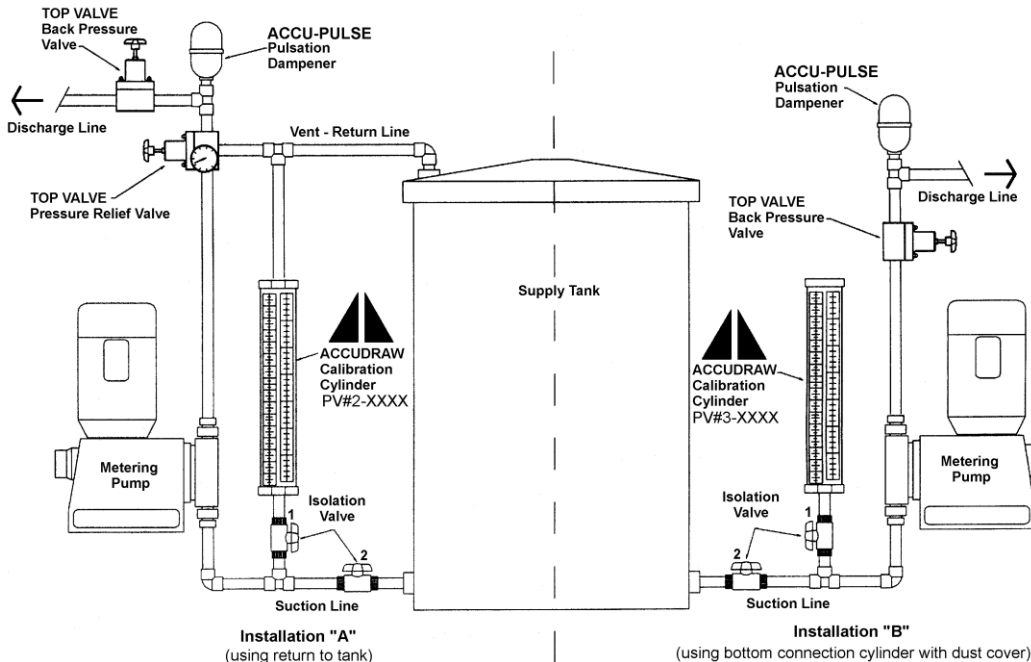
Using the ml scale: (scale is based on volume pumped, over any given time)

1. Fill the calibration cylinder to the top "0" mark on the ml scale.
2. Close isolation valve (#2) from supply tank, open isolation valve (#1) below cylinder and start the pump.
3. Use a stopwatch to measure the time it takes to pump down a given volume (ml) in 60 seconds.
4. Multiply the volume by 60 to determine the **ml per hour** volume, if required.
5. Adjust the pump volume control higher or lower to meet with your desired output.
6. Repeat above steps 1 through 5, until the 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
 1 ml = 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:
 Do not use as a Pressure Vessel.



PRIMARY FLUID SYSTEMS INC.

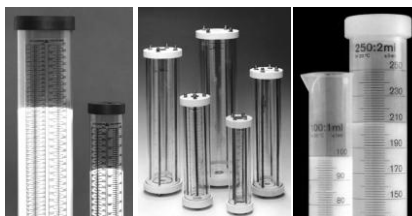
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E-Mail: primary@primaryfluid.com
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Metering Pump Accessories Save \$\$\$\$

Prevent unsafe and inefficient systems by design.

ACCUDRAW Calibration Cylinders



PVC Glass Poly

- 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.

TOP VALVE Back Pressure/Pressure Relief



- long life diaphragm
- range of 0 – 150 PSIG
- air release, optional gauge port
- PVC, CPVC, PVDF, PTFE, polypropylene, stainless, Alloy 20 and Hastelloy C
- 7 sizes 1/4" – 2" NPT
- colour coded handles indicate size

Designed to enhance the accuracy and safety of your metering pumps.

ACCU-PULSE

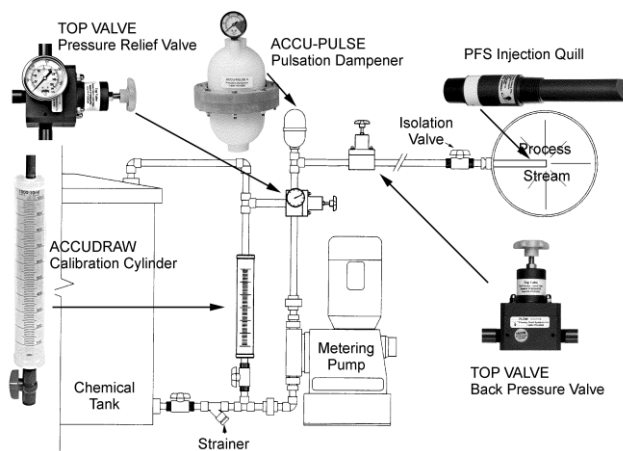
Pulsation Dampeners



Designed to remove pulsating flows from positive displacement pumps.

- increase system efficiency and pump life
- decrease maintenance and costs
- protect pipes, meters, valves and instrumentation from pulsation and vibration
- ensure meter accuracy, longevity and repeatability
- prevent foaming and splashing
- extensive range of materials and sizes
- lightweight, compact design

Typical Metering Pump System



AutoCad drawings available from our web site.

Visit www.primaryfluid.com

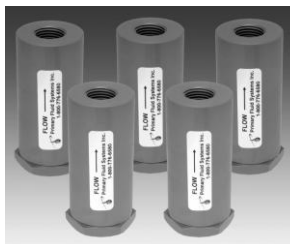
PFS Injection Quills



Designed to inject chemical into the center stream of process.

- provides for a more homogenous mix in the pipeline
 - built-in checks to prevent back siphoning
 - 2 sizes 6" and 8" length
 - 1/2" or 3/4" NPT, BPST, or Flg'd Conn.
 - PVC, CPVC, PVDF, polypropylene, Stainless, Hastelloy C & Titanium
 - pressure to 3000 PSIG
 - temperature to 260°C (500°F)
- Custom built in other sizes and materials.**

Accu-Vent



Designed to automatically vent gases and vapours.

- vents gases and vapors released from Sodium Hypochlorite, Sulfuric Acid & Hydrogen Peroxide
- CPVC (Corzan) and Viton corrosion resistant wetted materials of construction
- specially designed float material automatically vents built up gases on system start up and under working pressure
- standard 1/2" or 3/4" NPT threaded connections or optional socket weld
- available in other materials

PFS Corporation Stops



Designed to inject chemical into the center stream of process.

- isolation valve allows for ease of maintenance
 - available in 6 materials of construction
 - wetted components have comparable or greater chemical resistance than quill construction material
 - standard and custom lengths available
 - connection in NPT, metric or flanged
- Custom built in other sizes & materials.**

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