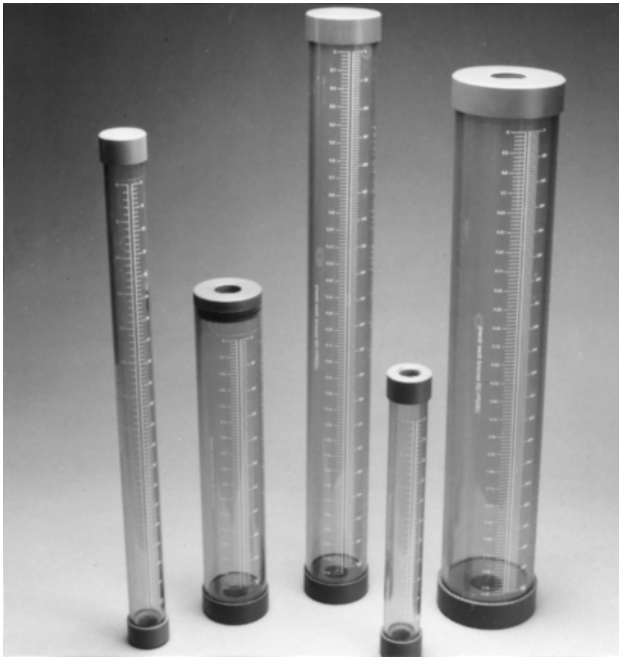




PVC CALIBRATION CYLINDERS



Griffco calibration cylinders are designed to enhance the performance of chemical feed systems by providing a verification of the flow rate of the chemical feed pump. Robust construction of clear PVC with an easy to read graduation in mls and gph. Available in three models: EZ-Clean, Vented, and Open Top; and 13 sizes; 100 mL through 20,000 mL as detailed here.

Features:

- High Reliability / Low Cost**
- High Contrast Graduation Markings**
- Clear Easy-View Tube**
- Robust Construction**
- Direct GPH Readout**
- Sealed Top with Overflow Connection**
- Optional EZ-Clean Model**
- Optional Open Top with Dust Cap**

Operation:

Griffco calibration cylinders are installed in the suction line to the chemical metering pump. Two isolating valves, (not supplied) must be installed in the suction line as per the drawing below. The top of the cylinder should be vented back to the storage tank or to drain.

Fill the cylinder to the top mark then close the valve from the chemical tank. Switch on the chemical feed pump and draw down the chemical in the cylinder for 30 seconds. Switch the pump off. The reading on the right side of the cylinder is a direct readout of USgph.

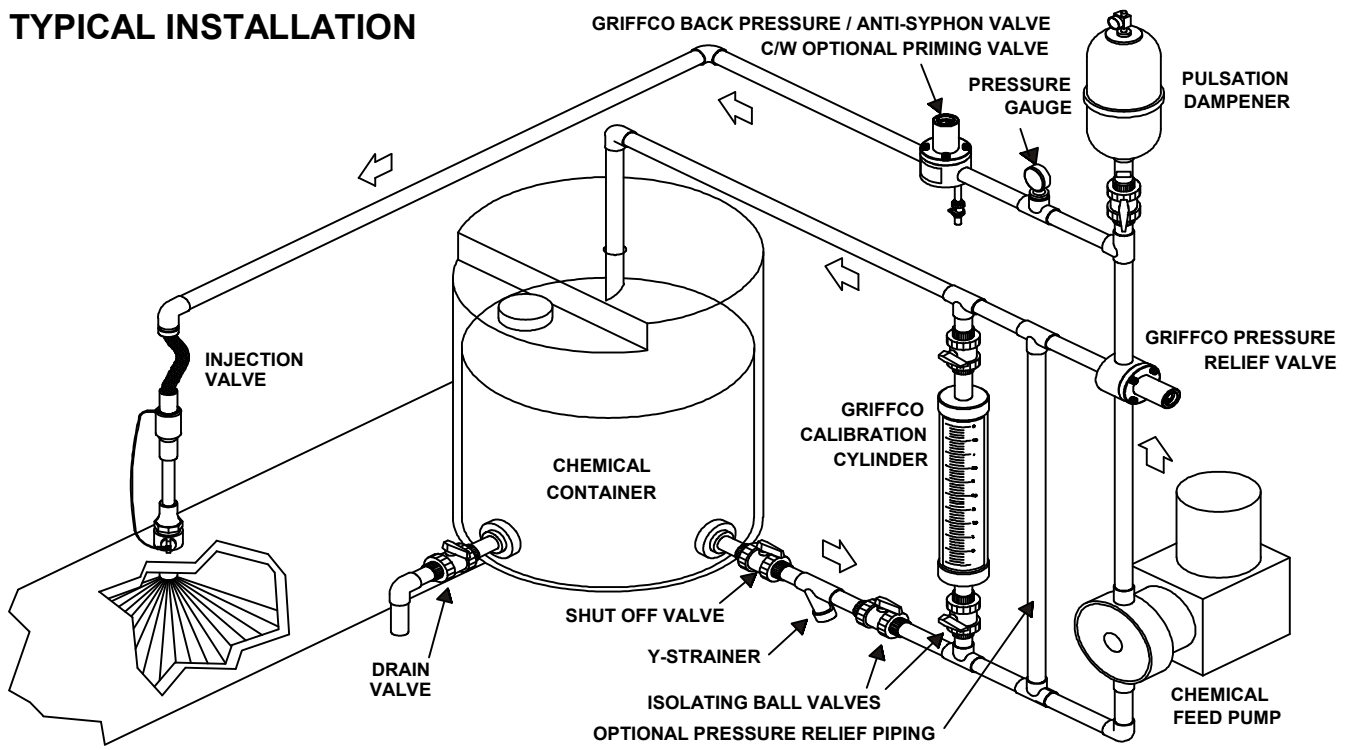
Alternatively, observe the volume withdrawn on the ml scale. To convert to LPH or GPH use this formula:

$$\text{LPH} = (\text{volume} \div \text{draw time}) \times 3.6$$

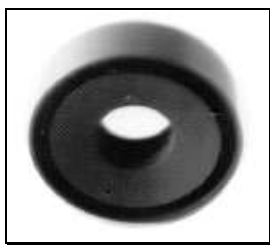
$$\text{GPH} = (\text{volume} \div \text{draw time}) \times 0.952$$

Note: Max. cylinder pressure is 15 psi.

TYPICAL INSTALLATION

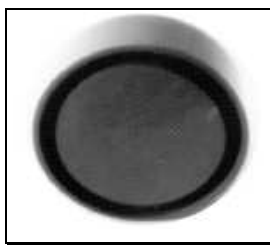


Description of models:



Sealed:

Top is glued to cylinder and contains a vent or overflow connection. (FNPT). Used in applications where there is a positive suction head and a permanent installation is desired.



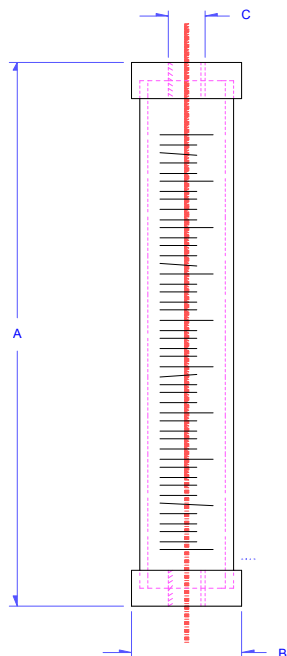
Loose Cap:

Top is loose and does not have a connection in the top. Dust cover only. Used in applications where there is no positive suction head and the cylinder must be filled from the top.



EZ-Clean: (Avail. 100 – 7000 mL only)

Top is sealed with an O-ring and has a vent connection, but removable for easy cleaning. Used in applications where frequent cleaning is required such as polymer, alum, ferric chloride or chlorine.



| Capacity | | Scale | | A | B | C |
|----------|---------|-------|---------|------|------|-------|
| (ml) | (Usqnh) | (ml) | (Usqnh) | (in) | (in) | (in) |
| 100 | 3.17 | 1 | .1 | 11 | 1.5 | 1/2 |
| 200 | 6.34 | 1 | .1 | 19 | 1.5 | 1/2 |
| 300 | 9.51 | 5 | .2 | 13 | 2.2 | 1/2 |
| 500 | 15.85 | 5 | .2 | 13 | 2.5 | 3/4 |
| 1,000 | 31.70 | 5 | .2 | 22 | 2.5 | 3/4 |
| 2,000 | 63.40 | 10 | 1 | 20 | 3.7 | 1 |
| 3,000 | 95.10 | 10 | 1 | 17 | 4.9 | 1 1/2 |
| 4,000 | 126.80 | 10 | 1 | 37 | 3.7 | 1 |
| 5,000 | 158.50 | 10 | 1 | 28 | 4.9 | 1 1/2 |
| 7,000 | 221.90 | 10 | 1 | 38 | 4.9 | 1 1/2 |
| 10,000 | 317.00 | 100 | 5 | 25 | 6.95 | 2 |
| 15,000 | 475.50 | 100 | 5 | 36 | 6.95 | 2 |
| 20,000 | 634.00 | 100 | 5 | 47 | 6.95 | 2 |

Chemical Resistance Guide (For a more complete listing see our Chemical Resistance Guide - Request Bulletin # CRG 1000-94)

RECOMMENDED

| | | |
|----------------------|----------------------|------------------------|
| Acetic Acid 10-20% | Barium Sulphate | Copper Sulphate |
| Acetylene | Barium Sulfide | Cupric Fluoride |
| Adipic Acid | Beer | Detergents |
| Alum | Benzoic Acid | Dextrose |
| Aluminium Alum | Black Liquors | Distilled Water |
| Aluminium Chloride | Bleach (12% Cl) | Ethylene Glycol |
| Aluminium Fluoride | Borax | Fatty Acids |
| Aluminium Hydroxide | Boric Acid | Ferric Chloride |
| Aluminium Oxchloride | Bromic Acid | Ferric Hydroxide |
| Aluminium Nitrate | Cadmium Cyanide | Ferric Nitrate |
| Aluminium Sulfate | Calcium Bisulfide | Ferric Sulfate |
| Ammonia (dry-gas) | Calcium Bisulfite | Ferrous Chloride |
| Ammonium Acetate | Calcium Carbonate | Ferrous Sulfate |
| Ammonium Alum | Calcium Chloride | Fluorosilicic Acid 25% |
| Ammonium Bifluoride | Calcium Hydroxide | Gallic Acid |
| Ammonium Carbonate | Calcium Hypochlorite | Gasoline |
| Ammonium Chloride | Calcium Nitrate | Glycerine |
| Ammonium Hydroxide | Carbon Dioxide | Glycol |
| Ammn. Metaphosphate | Carbonic Acid | Glycolic Acid |
| Ammonium Nitrate | Caustic Potash | Hydrobromic Acid 20% |
| Ammonium Persulfate | Caustic Soda | Hydrochloric Acid 35% |
| Ammonium Phosphate | Chlorine Water | Hydrocyanic Acid |
| Ammonium Sulfate | Chrome Alum | Hydrogen Peroxide 90% |
| Ammonium Sulfide | Citric Acid | Hydrogen Sulfite |
| Ammonium Thiocyanate | Copper Carbonate | Kraft Liquors |
| Arsenic Acid | Copper Chloride | Latic Acid 25% |
| Barium Carbonate | Copper Cyanide | Lead Acetate |
| Barium Chloride | Copper Fluoride | Lead Chloride |
| Barium Hydroxide | Copper Nitrate | Lead Sulfate |

| | |
|-----------------------|---------------------|
| Linoleic Acid | Potassium Hydroxide |
| Linseed Oil | Potassium Nitrate |
| Lithium Bromide | Potsm Permanganate |
| Malic Acid | Plating Solutions |
| Mercuric Chloride | Sea Water |
| Mercuric Cyanide | Silicic Acid |
| Mercury | Silver Cyanide |
| Methyl Alcohol | Silver Nitrate |
| Methyl Sulfuric Acid | Sodium Acetate |
| Milk | Sodium Alum |
| Muratic Acid | Sodium Bicarbonate |
| Nitric Acid 10% - 60% | Sodium Bisulfate |
| Oleic Acid | Sodium Carbonate |
| Ozone | Sodium Cyanide |
| Palmitric Acid 10% | Sodium Hydroxide |
| Perchloric Acid 10% | Sodium Hypochlorite |
| Phosphoric Acid 10% | Stannic Chloride |
| Phosphoric Acid 25% | Sulfuric Acid 3% |
| Phosphoric Acid 75% | Sulfuric Acid 10% |
| Phosphoric Acid 85% | Sulfuric Acid 33% |
| Potassium Alum | Sulfuric Acid 50% |
| Potassium Bicarbonate | Sulfuric Acid 70% |
| Potassium Borate | Trisodium Phosphate |
| Potassium Bromate | Water, Deionized |
| Potassium Carbonate | Water, Distilled |
| Potassium Chlorate | Water, Salt |
| Potassium Chloride | Zinc Chloride |
| Potassium Cyanide | Zinc Sulfate |
| Potassium Fluoride | |

NOT RECM'D

| |
|------------------------|
| Acetic Acid |
| Acetone |
| Ammonia (liquid) |
| Ammonium Fluoride |
| Amyl Acetate |
| Benzene |
| Bromine, Liquid |
| Bromine, water |
| Butyl Acetate |
| Carbon Bisulfide |
| Carbon Tetrachloride |
| Chlorine Gas |
| Chlorine (wet) |
| Chromic Acid 10% |
| Chromic Acid 50% |
| Ethers |
| Fluorine Gas |
| Hydrofluoric Acid 50% |
| Iodine |
| Nitric Acid Anhydrous |
| Nitric Acid 68% |
| Perchloric Acid 15% |
| Perchloric Acid 70% |
| Sulfur Dioxide (wet) |
| Sulfuric Acid 80-94% |
| Titanium Tetrachloride |
| Tributyl Phosphate |
| Turpentine |