



## Griffco Valve Inc.

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# PVC CALIBRATION COLUMNS



**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 mL and gph. Available in three models: EZ-Clean, Vented, and Open Top; and in 15 sizes: 100 mL through 40,000 mL as detailed here.

## Features:

- High Reliability / Low Cost
- High Contrast Graduation Markings
- Clear Easy-View Tube
- Robust Schedule 40 Pipe Construction
- Direct GPH Readout
- Sealed Top with Overflow Connection
- Optional EZ-Clean Model
- Optional Open Top with Dust Cap

## Operation:

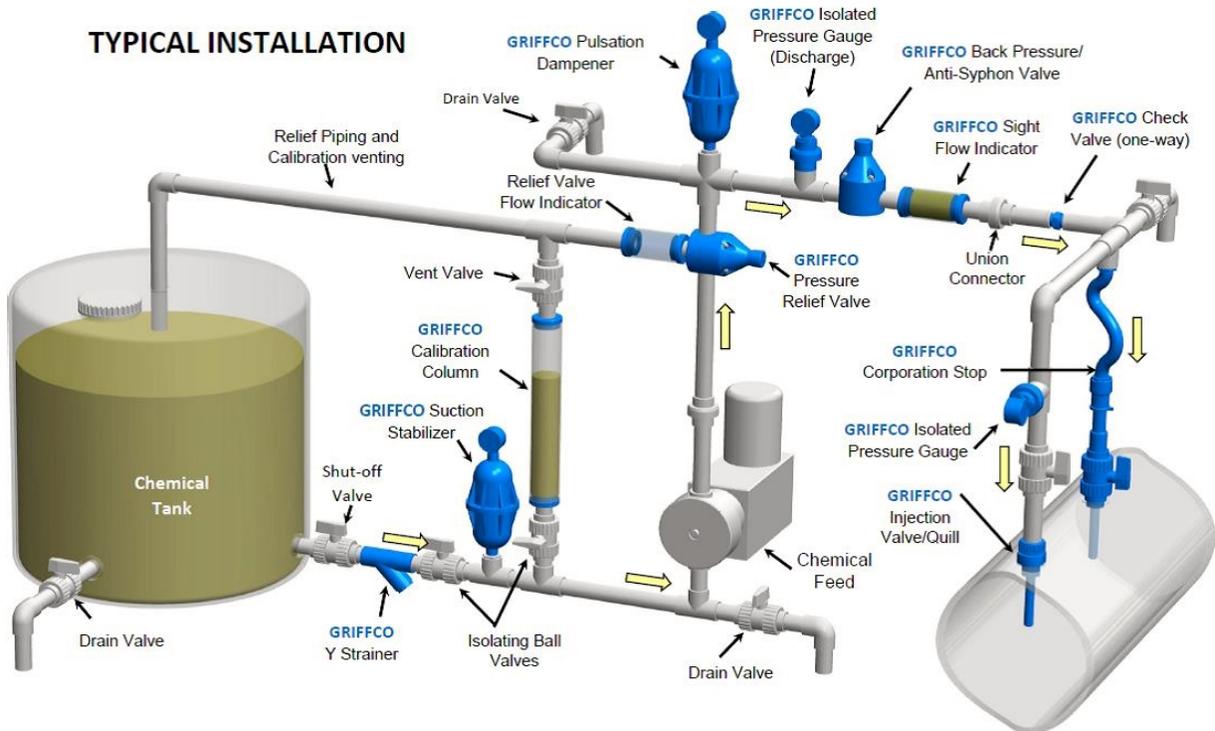
**Griffco** calibration cylinders are installed in the suction line to the chemical metering pump. Two isolating valves, (not supplied) must be installed in the suction line as per the drawing below. The top of the cylinder should be vented back to the storage tank or to drain.

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 Alternatively, observe the volume withdrawn on the mL scale.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:

$$\text{LPH} = 3.6 \times [\text{mL}] \div \text{Time (sec)}$$

$$\text{GPH} = 0.951 \times [\text{mL}] \div \text{Time (sec)}$$

**Note: Max. cylinder pressure is 15 psi.**



## 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.



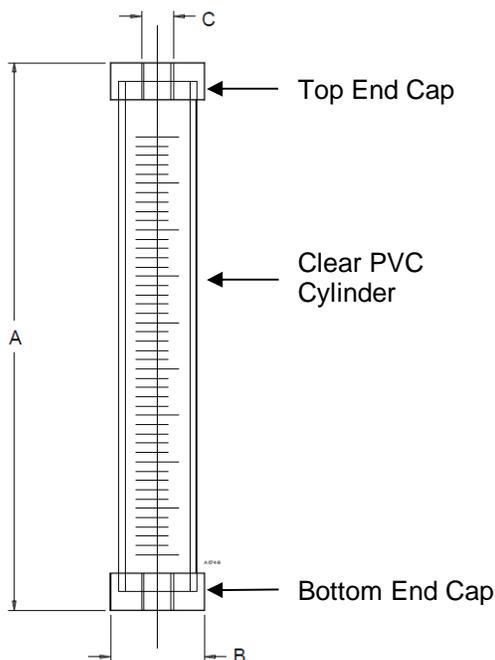
### Loose Cap: (Avail. up to 20,000 mL)

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 (mL) $\diamond$	Max Flow (USgph)	Max Flow (lph)	Scale (mL)	Scale (gph)	A (in)	B (in)	C (in)
100	3.17	12	1	.1	11	1.5	1/2
200	6.34	24	1	.1	19	1.5	1/2
300	9.51	36	5	.2	13	2.2	1/2
500	15.85	60	5	.2	13	2.5	3/4
1,000	31.70	120	5	.2	22	2.5	3/4
2,000	63.40	240	10	1	20	3.7	1
3,000	95.10	360	10	1	17	4.9	1 1/2
4,000	126.8	480	10	1	37	3.7	1
5,000	158.5	600	10	1	28	4.9	1 1/2
7,000	221.9	840	10	1	38	4.9	1 1/2
10,000	317.0	1200	100	5	25	6.95	2
15,000	475.5	1800	100	5	36	6.95	2
20,000	634.0	2400	100	5	47	6.95	2
30,000	952.0	3600	200	10	65*	9.5*	4
40,000	1,268.0	4800	200	10	77.5*	9.5*	4

▲ Max Flow and gph scale are based on 30 second drawdown  
 $\diamond$  For 60 sec draw down, double capacity in mL or flow size

\* Reference only

## Codes for Ordering PVC Calibration Columns:

CC

1                      2            3            4

### 1 = Size

- 0100 – 100 mL
- 0200 – 200 mL
- 0300 – 300 mL
- 0500 – 500 mL
- 1000 – 1000 mL
- 2000 – 2000 mL
- 3000 – 3000 mL
- 4000 – 4000 mL
- 5000 – 5000 mL
- 7000 – 7000 mL
- 10000 – 10000 mL
- 15000 – 15000 mL
- 20000 – 20000 mL
- 30000 – 30000 mL
- 40000 – 40000 mL

### 2 = Top End Cap Style (Top Cap Only)

- S – Sealed
- L – Loose (up to 20000mL)
- EZ – EZ Clean (up to 7000mL)

### 3 = Connections

- Blank – Threaded
- S – Socket
- F – Flanged
- U – Union

### 4 = Oring Material (Union & EZ end cap orings)

- Blank – FKM (Viton®)
- E - EPDM

### Available O-ring Options:

PTFE Encapsulated  
 or FFKM are available  
 upon request