

SENTINEL™

# PVC & BOROSILICATE GLASS CALIBRATION COLUMNS

## Accurately Calibrate Metering Pump Flowrates

Calibration columns (or cylinders) provide a simple and accurate method to calibrate pump flowrate in chemical dosing applications. The column is installed on the suction line of the pump with the top of the column vented back to the supply tank or drain.

Using isolation valves, the column is filled with process fluid from the supply tank and drawn down in a timed test. The fluid remaining in the column at the end of the test is measured on the column's graduated scale in both milliliters/minutes (mL/min) and US gallons/hour (US GPH).

## The Blacoh Advantage

Blacoh offers PVC and glass calibration columns in a wide range of sizes with end cap materials and connection options to suit every application. Each cylinder features a laminated dual scale in mL/min and US GPH to provide simple and accurate measurement. Like all Blacoh products, calibration columns are **proudly made in the USA.**

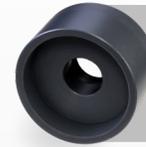
**BLACOH**™  
INDUSTRIES

# Specifications

| SIZE     | PVC COLUMN HEIGHT (in) | PVC COLUMN DIAMETER (in) | GLASS COLUMN HEIGHT (in) | GLASS COLUMN DIAMETER (in) | CONNECTION (in) | CAPACITY (GPH) |
|----------|------------------------|--------------------------|--------------------------|----------------------------|-----------------|----------------|
| 100 ML   | 13.5                   | 1.8                      | 15.3                     | 2.3                        | 0.5             | 1.5            |
| 250 ML   | 17.0                   | 2.1                      | 19.4                     | 2.4                        | 0.5             | 4.0            |
| 500 ML   | 16.3                   | 2.8                      | 18.3                     | 3.3                        | 0.75            | 8.0            |
| 1000 ML  | 25.5                   | 2.8                      | 28.1                     | 3.3                        | 0.75            | 16.0           |
| 2000 ML  | 24.3                   | 4.0                      | 33.3                     | 4.3                        | 1.0             | 32.0           |
| 4000 ML  | 27.5                   | 5.0                      | 26.6                     | 6.3                        | 1.0             | 64.0           |
| 10000 ML | 28.5                   | 7.1                      | 36.6                     | 7.2                        | 2.0             | 160.0          |
| 20000 ML | 47.3                   | 7.1                      | 61.1                     | 7.2                        | 2.0             | 315.0          |

Diameter and height based on standard cap models. Flanged models may vary. Blacoh's Calibration Columns use a one minute drawdown test. Appropriate size depends on user's maximum system flowrate in gallons per hour (or equivalent millimeters per minute).

## PVC Column End Caps



**SEALED** cap glued to the cylinder for a permanent vent connection. Used in applications with positive suction head.



**REMOVABLE** cap sealed with an O-ring so the cap can be easily removed for cleaning. Used in applications with positive suction head.



**LOOSE** cap dust cover used in applications with no positive suction head. The cylinder is filled from the top.

## PVC Calibration Columns

- CNC machined PVC end caps
- Clear PVC cylinder
- Sealed, removable and loose end cap options

| PART #   | SIZE     | CONNECTION |
|----------|----------|------------|
| CP-100_  | 100 mL   | 1/2" NPT   |
| CP-250_  | 250 mL   | 1/2" NPT   |
| CP-500_  | 500 mL   | 3/4" NPT   |
| CP-1000_ | 1000 mL  | 3/4" NPT   |
| CP-2000_ | 2000 mL  | 1" NPT     |
| CP-4000_ | 4000 mL  | 1" NPT     |
| CP-10K_  | 10000 mL | 2" NPT     |
| CP-20K_  | 20000 mL | 2" NPT     |

Cap Options \_\_: Sealed **S** Loose **L** Removable **R**

Socket Weld - **SW** BSP - **BSP** Union - **U** 150# Flange - **F**

## GLASS Calibration Columns

- CNC machined end caps in a variety of materials
- Protective plastic shield on all sizes
- Removable end cap process connections

| PART #  | SIZE     | CONNECTION |
|---------|----------|------------|
| CG_100  | 100 mL   | 1/2" NPT   |
| CG_250  | 250 mL   | 1/2" NPT   |
| CG_500  | 500 mL   | 3/4" NPT   |
| CG_1000 | 1000 mL  | 3/4" NPT   |
| CG_2000 | 2000 mL  | 1" NPT     |
| CG_4000 | 4000 mL  | 1" NPT     |
| CG_10K  | 10000 mL | 2" NPT     |
| CG_20K  | 20000 mL | 2" NPT     |

Material\_\_ :

PVC                    **PVC**                    PVDF                    **PVDF**  
 CPVC                  **CPVC**                  Stainless Steel      **SS**  
 Polypropylene      **PP**

Socket Weld - **SW** BSP - **BSP** Union - **U** 150# Flange - **F**

# SENTINEL™

Diaphragm Seals & Gauge Guards  
 Back Pressure & Pressure Relief Valves  
 Hybrid Combination Dampener & Back Pressure Valve  
 Calibration Columns  
 Injection Quills  
 Degassing Valves