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GLASS CALIBRATION CYLINDERS

Griffco Borosilicate Glass 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. Constructed of borosilicate glass and a choice of 8 end cap materials, (PVC, CPVC, PP, PTFE, PVDF, 316SS, Alloy 20, and Hastelloy C) these cylinders are suitable for use with most chemicals. Available in 12 sizes; from 30mL to 20 L.

Features:

- **High Reliability / Low Cost**
- **Borosilicate Glass Tube**
- **8 End Cap Materials**
- **Easy Disassembly For Cleaning**
- **Protective Outer Shield**
- **High Contrast Graduation Markings**
- **US (GPH) and Metric (mL) Scales**
- **Sealed Top with Overflow Connection**
- **No exposed hardware**

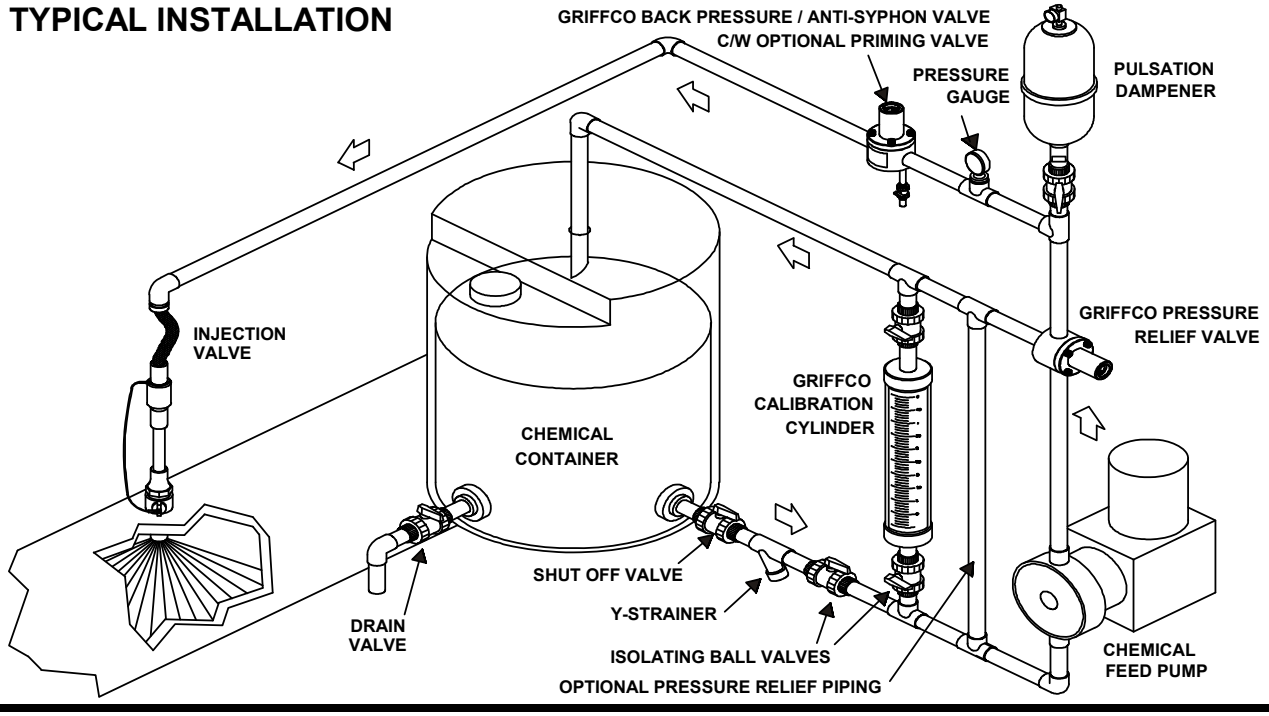
Operation:

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 Alternatively, observe the volume withdrawn on the mL scale.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

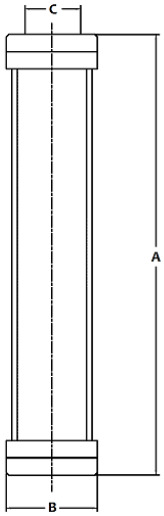
LPH = 3.6 x [mL] ÷ Time (sec)
GPH = 0.951 x [mL] ÷ Time (sec)

Note: Max. cylinder pressure is 15 feet of water column (6.5 psi).

TYPICAL INSTALLATION



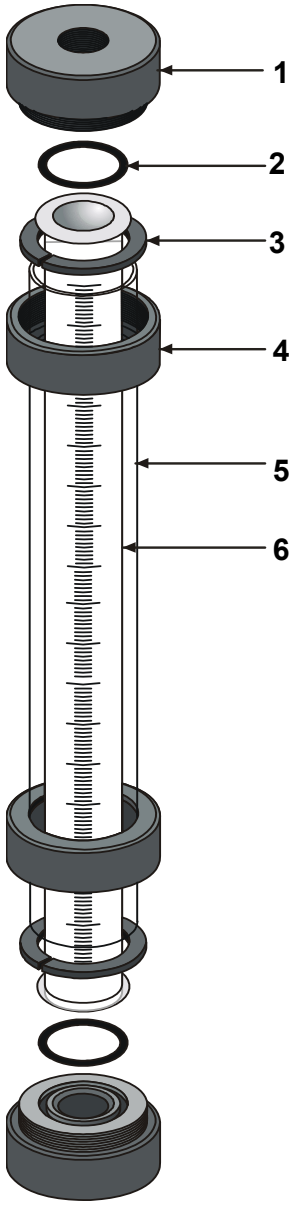
Dimensions:



Ref #	Description
1	End Cap
2	O-Ring[2]
3	Split Ring
4	Nut
5	Shield[1]
6	Glass Tube

[1]Shield, not standard on 10,000 to 20,000 mL sizes.
[2] FKM (Viton®) O-Ring is standard

Component Drawing:



Capacity (mL) ◊	Max Flow ▲ (USgph)	(lph)	Scale (mL)	Scale ▲(gph)	A (in)	B (in)	C (in)
30	.95	3.6	1	0.05	14	1.4	1/4
100	3.2	12	2	0.1	15	2.5	1/2
200	6.4	24	2	0.1	21	2.5	1/2
500	16	60	5	0.2	15	3.5	3/4
1,000	32	120	5	0.2	27	3.5	3/4
2,000	63	240	10	1	27*	5.0	1
4,000	127	480	10	1	39*	5.0	1
5,000	160	600	10	1	29	7.5	1 1/2
7,000	225	840	10	1	39	7.5	1 1/2
10,000 [1]	320	1200	100	5	27	9.15	2
15,000 [1]	480	1800	100	5	33	9.15	2
20,000 [1]	640	2400	100	5	39	9.15	2

▲ Max Flow and gph scale are based on 30 second drawdown
◊ For 60 sec draw down, double capacity in mL or flow size
[1]Shield, not standard on 10,000 to 20,000 mL sizes
* 2,000mL w/ PTFE End Cap ONLY, Dim A = 26 in
* 4,000mL w/ PTFE End Cap ONLY, Dim A = 38 in

Codes for Ordering Glass Calibration Cylinders:

CCG ☐☐☐☐ ☐ ☐ ☐
1 **2** **3** **4**

1 = Size

0030 – 30 mL
0100 – 100 mL
0200 – 200 mL
0500 – 500 mL
1000 – 1000 mL
2000 – 2000 mL
4000 – 4000 mL
5000 – 5000 mL
7000 – 7000 mL
10000 – 10000 mL
15000 – 15000 mL
20000 – 20000 mL

2 = End Cap Material

P – PVC
CP – CPVC
PP – Polypro
T – PTFE
K – PVDF
M – 316 SS
A – Alloy 20
C – Hastelloy C

3 = Connection

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

4 = Oring Material
(Union & regular end cap orings)

Blank – FKM (Viton®)
E – EPDM

(PTFE Encapsulated or FFKM are available upon request)

Connection Configurations

Website: www.griffcovalve.com Email: sales@griffcovalve.com