CALIBRATION CYLINDERS

SIGMAMOTOR

Sigmamotor Graduated Calibration Cylinders for Accurate Calibration of Chemical Metering Pumps

Verified Accuracy

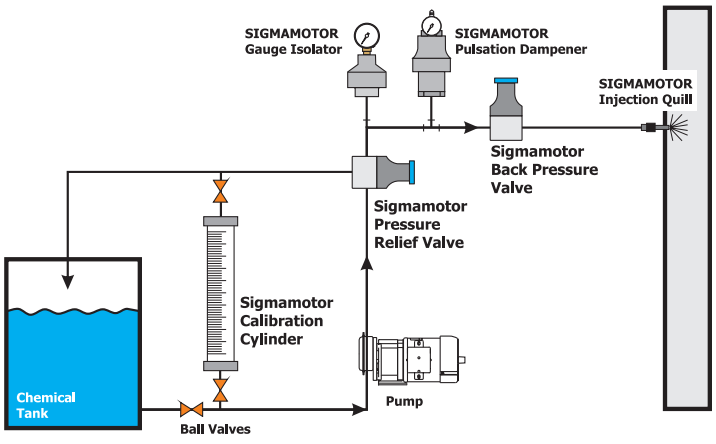
Sigmamotor Calibration Cylinders will enhance your feed systems by allowing verification of the flow rate of the feed pump.

- CNC machined ends
- Clear tube for easy GPH reading
- Sealed top
- Quick-off top for cleaning (optional)
- Loose top (optional)
- NSF-61 Approved materials

Calibration Cylinders are installed on the suction side of the metering pump and are isolated with two valves installed with the cylinder. The top of the cylinder is vented back to the supply tank or drain. The calibration cylinder is filled to the top mark then the valve from the tank is closed. Turning on the metering pump will draw down the liquid providing a simple means to verify the accuracy of the pump flow rate. USGPH (Gallons Per Hour) and ML are shown on the cylinder.

Sigmamotor Calibration Cylinders are critical to accurate determination of your system flow rate, either at start-up or following maintenance. Sigmamotor Calibration Cylinders are made from clear PVC with gray PVC ends. Max cylinder pressure is 15psi.

Typical System Block Diagram



Rugged PVC Sigmamotor Calibration Cylinders and are clearly marked in US GPH and milliliters for accurate drawdown calibrations.

Glass cylinders are also available

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SEALED CAP (S)

Cap is permanently fixed to the top of the cylinder and includes a vent or NPT process connection. Used in applications requiring a positive suction head.

LOOSE CAP (L)

Cap is loose and easily removed for cleaning and manual filling Used in applications where the cylinder must be filled from the top with no positive suction head.

QUICK OFF CAP (Q)

Cap is sealed with an O-ring and includes an NPT vent connection. Used in applications where frequent cleaning is required, such as polymer, alum, ferric chloride or chlorine.

Calibration Cylinders are available in eight sizes.

CALIBRATION CYLINDER SPECIFICATIONS								NSF-61 approved materials
SIZE	**100ml**	**200ml**	**500ml**	**1000ml**	**2000ml**	**4000ml**	**10000ml**	**20000ml**
PART NO. (cap style)	CA100 (S, L or Q)	CA200 (S, L or Q)	CA500 (S, L or Q)	CA1K (S, L or Q)	CA2K (S, L or Q)	CA4K (S, L or Q)	CA10K (S or L)	CA20K (S or L)
A - Height	11”	19”	13”	22”	20”	37”	26”	48”
B - Diameter	1.5”	1.5”	2.5”	2.5”	3.7”	3.7”	7.25”	7.25”
C - Connection	1/2” NPT	1/2” NPT	3/4” NPT	3/4” NPT	1” NPT	1” NPT	2” NPT	2” NPT
Capacity (GPH)	3.2	6.4	16	32	64	128	320	640
Scale (ml)	2	2	5	5	10	10	20	20

Custom sizes available upon request

Chemical Resistance Guide

RECOMMENDED					NOT RECOMMENDED
Acetic Acid 10-20%	Barium Sulphate	Copper Sulphate	Linoleic Acid	Potassium Hydroxide	Acetic Acid
Acetylene	Barium Sulfide	Cupric Fluoride	Linseed Oil	Potassium Nitrate	Acetone
Adipic Acid	Beer	Detergents	Lithium Bromide	Potassium Permanganate	Ammonia (liquid)
Alum	Benzoic Acid	Dextrose	Malic Acid	Plating Solutions	Ammonium Fluoride
Aluminium Alum	Black Liquors	Distilled Water	Mercuric Chloride	Sea Water	Amyl Acetate
Aluminium Chloride	Bleach (12% Cl)	Ethylene Glycol	Mercuric Cyanide	Silicic Acid	Benzene
Aluminium Fluoride	Borax	Fatty Acids	Mercury	Silver Cyanide	Bromine, Liquid
Aluminium Hydroxide	Boric Acid	Ferric Chloride	Methyl Alcohol	Silver Nitrate	Bromine, water
Aluminium Oxychloride	Bromic Acid	Ferric Hydroxide	Methyl Sulfuric Acid	Sodium Acetate	Butyl Acetate
Aluminium Nitrate	Cadmium Cyanide	Ferric Nitrate	Milk	Sodium Alum	Carbon Bisulfide
Aluminium Sulfate	Calcium Bisulfide	Ferric Sulfate	Muratic Acid	Sodium Bicarbonate	Carbon Tetrachloride
Ammonia (dry-gas)	Calcium Bisulfite	Ferrous Chloride	Nitric Acid 10% - 60%	Sodium Bisulfate	Chlorine Gas
Ammonium Acetate	Calcium Carbonate	Ferrous Sulfate	Oleic Acid	Sodium Carbonate	Chlorine (wet)
Ammonium Alum	Calcium Chloride	Fluorosilicic Acid 25%	Ozone	Sodium Cyanide	Chromic Acid 10%
Ammonium Bifluoride	Calcium Hydroxide	Gallic Acid	Palmitric Acid 10%	Sodium Hydroxide	Chromic Acid 50%
Ammonium Carbonate	Calcium Hypochlorite	Gasoline	Perchloric Acid 10%	Sodium Hypochlorite	Ethers
Ammonium Chloride	Calcium Nitrate	Glycerine	Phosphoric Acid 10%	Stannic Chloride	Fluorine Gas
Ammonium Hydroxide	Carbon Dioxide	Glycol	Phosphoric Acid 25%	Sulfuric Acid 3%	Hydrofluoric Acid 50%
Ammn. Metaphosphate	Carbonic Acid	Glycolic Acid	Phosphoric Acid 75%	Sulfuric Acid 10%	Iodine
Ammonium Nitrate	Caustic Potash	Hydrobromic Acid 20%	Phosphoric Acid 85%	Sulfuric Acid 33%	Nitric Acid Anhydrous
Ammonium Persulfate	Caustic Soda	Hydrochloric Acid 35%	Potassium Alum	Sulfuric Acid 50%	Nitric Acid 68%
Ammonium Phosphate	Chlorine Water	Hydrocynac Acid	Potassium Bicarbonate	Sulfuric Acid 70%	Perchloric Acid 15%
Ammonium Sulfate	Chrome Alum	Hydrogen Peroxide 90%	Potassium Borate	Trisodium Phosphate	Sulfide Sulfur Dioxide (wet)
Ammonium	Citric Acid	Hydrogen Sulfite	Potassium Bromate	Water, Deionized	Sulfuric Acid 80-94%
Ammonium Thiocyanate	Copper Carbonate	Kraft Liquors	Potassium Carbonate	Water, Distilled	Sulfuric Acid 80-94%
Arsenic Acid	Copper Chloride	Latic Acid 25%	Potassium Chlorate	Water, Salt	Titanium Tetrachloride
Barium Carbonate	Copper Cyanide	Lead Acetate	Potassium Chloride	Zinc Chloride	Tributyl Phosphate
Barium Chloride	Copper Fluoride	Lead Chloride	Potassium Cyanide	Zinc Sulfate	Turpentine
Barium Hydroxide	Copper Nitrate	Lead Sulfate	Potassium Fluoride		