



Model CK2000 Series Portable Calibration Kits



Description

Matheson's Model CK2000 Series Calibration Kits are designed for use with the Matheson MiniMAT™ size 6R aluminum refillable cylinder. They are ideal for small volume gas applications such as field calibration of gas detection systems or portable instrumentation.

The CK2000 Calibration Kits primarily consist of a pressure regulator and flowmeter combination. This enables the user to adjust the calibration gas to the instrument manufacturer's pressure and flow rate specifications.

The kits utilize the Matheson Model 3571-180 pressure regulator. This miniature high purity regulator features corrosion resistant construction, compact size and lightweight materials. Two pressure gauges monitor cylinder contents and delivery pressure.

The kits also utilize the Matheson Model PM-1000 Series flowmeter. This provides optimum performance in a sturdy, lightweight acrylic meter. Two flowmeter ranges (1.6 and 3.4 SLPM) are available to give you the flexibility for low and high flow applications.

All CK2000 Calibration Kits come in a rugged watertight case made of a strong structural resin with a neoprene O-ring seal. A die cut foam insert assures safe transportation and storage of the equipment.

The MiniMAT™ is not included in the kit and needs to be purchased separately. However, there are cutouts in the foam insert to accommodate up to two (2) MiniMAT™ cylinders per kit. They, of course, may be filled with the same or different gases/mixtures.

Several kit configurations are available to meet your particular requirements. Each CK2000 Series kit will accommodate up to two (2) regulator/flowmeter combination modules, one for each MiniMAT™ cylinder. Furthermore, there are two flowmeter ranges available making for a total of five possible kit configurations. See Ordering Information for exact kit contents. Each kit also comes with an adjustable wrench and either one or two sets of gas detection sensor cup adapters and tubing (4 feet).

Regulator Specifications

Matheson Part No.:	3571-180
Regulator Series:	Miniature High Purity
Regulator Type:	Single stage
Maximum Inlet Pressure:	3000 psig
Delivery Pressure Range:	0-50 psig
Pressure Gauges:	Cylinder contents and delivery pressure gauges
Flow Capacity:	Cv = 0.06
Weight:	2 lbs (908 gm)
Warranty:	1 Year

Materials of Construction

Body:	316 stainless steel
Diaphragm:	316 stainless steel
Seat:	Kel-F81
Seal:	Teflon

Flowmeter Specifications

	Type A	Type B
Matheson Part No.:	R1-AED01-R201	R1-AED01-R202
Flow Rate:	0.1-1.6 SLPM	0.2-3.4 SLPM
Accuracy:	±10% full scale	±10% full scale
Repeatability:	±1% scale reading	±1% scale reading
Valve Resolution:	5 Turns	5 Turns
Maximum Pressure:	100 psig	100 psig
Maximum Temperature:	160° F (65° C)	160° F (65° C)
Warranty:	1 Year	1 Year

Materials of Construction

End Blocks:	Aluminum	Aluminum
Seals:	Viton	Viton
Valve Stem:	Stainless steel	Stainless steel
Metering Tube:	Acrylic	Acrylic
Float Material:	Glass	Stainless steel

Ordering Information

Description	Model Number CK2000-A	Model Number CK2000-B	Model Number CK2000-AA	Model Number CK2000-BB	Model Number CK2000-AB
Regulator, 3561-180	1	1	2	2	2
Flowmeter, PM-1000	1	-	2	-	1
Flowmeter, PM-1000	-	1	-	2	1
Sensor Cup Adapter, Tubing, ATH-0101	1	1	2	2	2
Adjustable Wrench, 8014BAK-12	1	1	1	1	1
Carrying Case with Foam Insert, CAS-0105	1	1	1	1	1
Carrying Case can accommodate up to 2 Size 6R Cylinders (not included)					