

Model SYR – MicroMATE™ Syringe Adaptors



Description/Applications

Syringe adaptor used with MicroMAT™-14 cylinders. For use in the calibration of gas detection instrumentation. This adaptor allows for calibration gas flow from MicroMAT™ cylinders to the septum inlet of a gas chromatograph.

Design Features

- Pressure Rating MicroMAT™-14: 240 psig
- Interface: 1/8" NPT

Ordering Information

Model Number	Description
SYR-MM14	Syringe Adaptor for use with MicroMAT™-14

Model VLV-MM17 – MicroMATE™-17 Valve



Description/Application

This valve is a cost effective solution for use with the MicroMAT™-17 cylinder when a regulator isn't needed.

Design Features

- Maximum Inlet Pressure: 300 psig
- Cylinder Outlet Connection: CGA 600
- Outlet Port: 3/16" hose barb

Materials of Construction

Body:	Brass
Outlet:	Brass
Orifice:	Brass
Gasket:	Cork

Ordering Information

Model Number	Description
VLV-MM17	MicroMAT™-17 On/Off Valve



Models 3344 and 3345 – MicroMATE™ Portable Cylinder Regulators
Brass Preset Flow Rate Regulators



Description/Application

Preset flow regulators for use with MicroMAT™-58 and MicroMAT™-105 cylinders. For use with portable and/or laboratory instrumentation that requires calibration.

Design Features

- Brass bodies
- Brass pistons
- 3/16" Hose barb outlet
- Push button on/off mechanism
- 0.3 SLPM standard preset flow rate; also available: 0.5, 1.0, 1.5, 2.5 SLPM
- 30 psig delivery pressure
- Cylinder pressure gauge:

3344: 0 - 500 psig

3345: 0 - 1200 psig

Materials of Construction

Body: Nickel plated brass
 Piston: Brass
 Seat: Teflon
 Seals: Viton
 Gauge: Nickel plated brass

Ordering Information

Model Number	Description
3344-C10	3344 Regulator with C10 Fitting and 0.3 SLPM Flow Rate
3344-C10C	3344 Regulator with C10 Fitting and 0.5 SLPM Flow Rate
3344-C10E	3344 Regulator with C10 Fitting and 1.0 SLPM Flow Rate
3344-C10F	3344 Regulator with C10 Fitting and 1.5 SLPM Flow Rate
3344-C10G	3344 Regulator with C10 Fitting and 2.5 SLPM Flow Rate
3345-C10	3345 Regulator with C10 Fitting and 0.3 SLPM Flow Rate
3345-C10C	3345 Regulator with C10 Fitting and 0.5 SLPM Flow Rate
3345-C10E	3345 Regulator with C10 Fitting and 1.0 SLPM Flow Rate
3345-C10F	3345 Regulator with C10 Fitting and 1.5 SLPM Flow Rate
3345-C10G	3345 Regulator with C10 Fitting and 2.5 SLPM Flow Rate



Model 3347 – MicroMATE™ Portable Cylinder Regulators
Brass Variable Flow Rate Regulators



Description/Application

Variable flow regulators for use with MicroMAT™-14, MicroMAT™-58, MicroMAT™-105, and MicroMAT™-221 cylinders. For use with portable and/or laboratory instrumentation that requires calibration.

Design Features

- Brass bodies
- Stainless steel pistons
- Hose barb outlet
- Selectable flow rates from 0-3 SLPM: 0.3, 0.5, 0.7, 0.9, 1.2, 1.5, 2.0, 2.5, 3.0
- 50 psig delivery pressure

Materials of Construction

Body: Nickel plated brass
 Piston: 316 stainless steel
 Seat: Teflon
 Seals: Viton
 Gauge: Nickel plated brass
 Bonnet (Wetted) Aluminum

Ordering Information

Model Number	Description
3347-160	3347 Regulator with CGA 160, Variable Flow
3347-C10	3347 Regulator with C10 fitting, Variable Flow
3347-165	3347 Regulator with CGA 165, Variable Flow
3347-600	3347 Regulator with CGA 600, Variable Flow

Model 3359 – MicroMATE™ Portable Cylinder Regulators
Stainless Steel Preset Flow Rate Regulators



Description/Applications

Preset flow rate regulators for use with MicroMAT™-58 cylinders. For use in the calibration of gas detection instrumentation.

Design Features

- Stainless steel bodies
- Stainless steel pistons
- Hose barb outlet - 3/16"
- 0.3 SLPM standard preset flow rate; also available: 0.5, 1.0, 1.5, 2.5 SLPM
- 30 psig delivery pressure

Materials of Construction

Body: Stainless steel
 Piston: 316 stainless steel
 Seat: Teflon
 Seals: Viton
 Gauge: 316 stainless steel

Ordering Information

Model Number	Description
3359-C10	3359 Regulator with C10 Fitting and 0.3 SLPM Flow Rate
3359-C10C	3359 Regulator with C10 Fitting and 0.5 SLPM Flow Rate
3359-C10E	3359 Regulator with C10 Fitting and 1.0 SLPM Flow Rate
3359-C10F	3359 Regulator with C10 Fitting and 1.5 SLPM Flow Rate
3359-C10G	3359 Regulator with C10 Fitting and 2.5 SLPM Flow Rate
3359HP-C10	3359 Regulator with C10 Fitting and 1200 psig Gauge



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MicromATE™ Equipment

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Model CKIT-SAFE – MicroCALKIT™-Safety



Description/Applications

This portable calibration kit is designed to accept two MicroMAT™-58's or -105's or one each of the 58 and 105 liter cylinders. It also comes with 3 feet of tygon tubing and sensor head assembly. It is wall mountable with a split front door. The MicroCALKIT™-Safety was primarily designed to support users who calibrate gas detection instrumentation for industrial hygiene and safety.

Design Features

- Can carry two MicroMAT™-58, two MicroMAT™-105 or one each of the 58 and 105 liter cylinders
- Molded handle with finger grips for comfort
- Wall-mountable
- Split front door allows easy access for calibration operation

Materials of Construction

- High-density polyethylene

Ordering Information

Model Number	Description
CKIT-SAFE	MicroCALKIT™-Safety for 2 MicroMAT™ Cylinders

Model CKIT-GENL – MicroCALKIT™-General Purpose



Description/Applications

This calibration kit comes with 3 feet of tygon tubing and a sensor head assembly. Matheson Tri-Gas will assemble this kit to meet your specific calibration kit needs.

Design Features

- Sturdy, but lightweight plastic case with foam inserts
- Standard case will hold any combination of MicroMAT™-58 and MicroMAT™-105 liter cylinders.

Ordering Information

Model Number	Description
CKIT-GENL	MicroCALKIT™-General Purpose



Model CKIT-TUFF – MicroCALKIT™-Heavy Duty



Description/Applications

Portable calibration kit for extreme conditions where durability is paramount.

Design Features

- Rugged, water tight case
- Strong, structural resin
- Neoprene O-ring seal
- Die-cut foam insert can be customized for cylinders and equipment

Ordering Information

Model Number	Description
CKIT-TUFF	MicroCALKIT™-Heavy Duty

Model CAS-0105-XX – MicroPELKIT™



Description/Applications

Portable calibration kit for extreme conditions where durability is paramount.

Design Features

- Reusable kit - just re-order cylinders
- Lightweight
- Durable with foam inserts to hold cylinders and regulators

Ordering Information

Model Number	Description
CAS-0105-XX	Case with Foam Insert

Options

Model Number	Description
SEN-0021-PD	Sensor Cup
TBG-0214-QF	Flexible Tubing, 36" long
WRC-0005-XX	Adjustable Wrench
RFM-0030-XX	Regulator with Orifice, Preset



Matheson Portables™ MicroMATE™ Equipment

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Model KIT-0529-XX



Description/Applications

This Portable PELgas™ kit holds two MiniMAT™ 6R cylinders with regulator flowmeter combination, calibration cup, 3 feet tygon tubing, small adjustable 6" wrench, CGA-180 teflon washers and Pelican case with precut foam insert.

Design Features

- Reusable kit – just re-order cylinders
- Lightweight
- Durable with foam inserts to hold cylinders

Ordering Information

Model Number	Description
KIT-0529-XX	PELgas™ Kit MiniMAT™ 6R
RFM-0029-XX	Preset regulator flowmeter combination
SEN-0021-PD	Calibration cup
TBG-0214-QF	3 feet tygon tubing
WRC-0013-XX	Small adjustable 6" wrench
WAS-0039-PB	CGA-180 teflon washers
CAS-0038-XX	Pelican case with precut foam inserts
HOL-0026-XX	MiniMAT™ 6R stand

Model KIT-0530-XX



Description/Applications

This Portable PELgas™ kit holds two MiniMAT™ 6R cylinders with preset regulator, restricting orifice and 1/4" hose barb, calibration cup, 3 feet tygon tubing, small adjustable 6" wrench, CGA-180 teflon washers and Pelican case with precut foam insert.

Design Features

- Reusable kit – just re-order cylinders
- Lightweight
- Durable with foam inserts to hold cylinders

Ordering Information

Model Number	Description
KIT-0530-XX	PELgas™ Kit MiniMAT™ 6R
RFM-0030-XX	Preset regulator flowmeter combination with restricting orifice & 1/4" hose barb
SEN-0021-PD	Calibration cup
TBG-0214-QF	3 feet tygon tubing
WRC-0013-XX	Small adjustable 6" wrench
WAS-0039-PB	CGA-180 teflon washers
CAS-0038-XX	Pelican case with precut foam inserts
HOL-0026-XX	MiniMAT™ 6R stand



Model BAG – Tedlar Sample Bags

Description/Applications

The MicroMATE™ Tedlar Sample Bags are designed to collect air samples containing common solvents, hydrocarbons, chlorinated solvents and many other types of chemicals. These bags are used in air monitoring applications such as air sampling, TWA, gas blending.

Design Features

- Can be re-used
- Fatigue resistant
- Large sample port for flushing

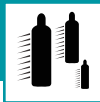
Ordering Information

Model Number	Description
BAG-MM1-BA	1 liter Tedlar Bag, Nickel Plated Valve
BAG-MM1-PP	1 liter Tedlar Bag, Polypropylene Valve
BAG-MM5-BA	5 liter Tedlar Bag, Nickel Plated Valve
BAG-MM5-PP	5 liter Tedlar Bag, Polypropylene Valve
BAG-MM10-BA	10 liter Tedlar Bag, Nickel Plated Valve
BAG-MM10-PP	10 liter Tedlar Bag, Polypropylene Valve
BAG-MM25-BA	25 liter Tedlar Bag, Nickel Plated Valve
BAG-MM25-PP	25 liter Tedlar Bag, Polypropylene Valve
BAG-MM40-BA	40 liter Tedlar Bag, Nickel Plated Valve
BAG-MM40-PP	40 liter Tedlar Bag, Polypropylene Valve

General Accessories

Ordering Information

Model Number	Description
SEP-MM5	Pack of 12 Septums, MicroMAT™-5
SEP-MM14	Pack of 25 Septums, MicroMAT™-14
TBG-0077-QF	Tygon Tubing
SEN-0021-PD	Sensor Head Assembly



Models RFM-0029-XX and RFM-0030-XX
MicroMATE™ Transportable Cylinder Regulators
Aluminum Regulator



RFM-0029-XX (with flowmeter)

Description/Applications

Aluminum regulators for use with MiniMAT™ cylinders. Air monitoring for PEL and LEL levels.

Design Features

- Aluminum bodies
- Hose barb outlet
- 30 psig delivery pressure
- Available with 0-1.5 SLPM adjustable flow rate and flowmeter (RFM-0029-XX), 0.5 SLPM preset flow rate (RFM-0030-XX)

Materials of Construction

Body: Anodized aluminum
 Diaphragm: 316 stainless steel
 Seat: Teflon PFA
 Seals: Teflon
 Gauge: 316 stainless steel

Ordering Information

Model Number	Description	Cylinder Outlet Connection	Cylinder Pressure Gauge
RFM-0029-XX	RFM Regulator with flowmeter	CGA 180	0-3000 psig
RFM-0030-XX	RFM Regulator with 0.5 SLPM preset flow rate	CGA 180	0-3000 psig

Model 3590A Series
Low Dead Volume Regulator



Description/Applications

A high purity stainless steel regulator with a minimal (7 cubic centimeters) internal volume to minimize contamination. The Model 3590A is recommended for use with MiniMAT™ cylinders, specific for air toxics monitoring applications.

Design Features/Components

- All metal components either 316 stainless steel or silver
- Metal to metal seals eliminate diffusion of gases
- Low dead volume minimizes contamination and adsorption
- 1/8" compression tube fitting on outlet
- Optional helium leak rate certification available.

Materials of Construction

Body: 316 stainless steel
 Bonnet: Nickel plated brass
 Diaphragm: 316 stainless steel
 Seat: Kel-F
 Seals: Silver

Specifications

Maximum Inlet Pressure: 3000 psig (20,700 kPa)
 Maximum Flow Rate: 21 SCFH (10 SLPM)
 (At 2000 psig, N₂)
 Flow Capacity (Cv): 0.04
 Operating Temperature: -40°F to 200°F (-40°C to 93°C)
 Porting: 1/4" NPT Female
 Porting Configuration: 1 High, 1 Low
 Shipping Weight: 4 lbs

Ordering Information

Model Number	Description	Cylinder Outlet Connection
3590A-CGA	Low Dead Volume Regulator	CGA 180