



It is the guiding principle of MESA Specialty Gas and equipment to offer only the highest quality calibration gas products to our customers.

### Service...

We recognize that only excellent customer service will allow our growth in this highly competitive calibration gas industry.

### Support...

MESA Specialty Gas offers technical support through top experts in the field. Let us know how we can assist you.

## MESA 300 Series 20L Regulator



### Recommended Applications

The 300 Series regulator is for use with MESA's [20L Cylinder](#). These regulators are recommended for non-corrosive gas service.

### Description

The 300 Series regulator is a single stage diaphragm style regulator. The pressure control knob permits adjustment of the outlet delivery pressure. Each regulator comes with a delivery pressure gauge.

### Available Models

Part Number	Output Range
300-030	0-30 psig

### Standard Materials

Body	Brass
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<b>Diaphragm</b>	Viton
<b>Seat</b>	Acetal
<b>Seal</b>	Viton

Standard Specifications

<b>Maximum Inlet</b>	<b>300 psig</b>
<b>Flow Coefficient</b>	<b>Cv= 0.36</b>
<b>Temperature Range</b>	<b>35° to 150° F</b>
<b>Inlet Connection</b>	<b>CGA 165</b>
<b>Outlet Connection</b>	<b>¼" FNPT</b>
<b>Gauge</b>	<b>0-30 psig</b>



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## MESA 400 Series 17L Preset Flow Regulator

### Recommended Applications

The 400 Series regulator is for use with MESA's [17L Cylinder](#). These regulators are recommended for non-corrosive gas service.

### Description

The 400 Series regulator is a single stage piston style regulator. The control valve permits constant gas flow and easy on/off. Each regulator comes with a cylinder pressure gauge and is available in five preset flow models.

### Available Models

Part Number	Flow Rate
400-025	0.25
400-030	0.30
400-050	0.50
400-100	1.00

400-150	1.50
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Standard Materials

<b>Body</b>	<b>Brass Bar Stock</b>
<b>Spring Housing</b>	<b>Chrome Plated</b>
<b>Cap</b>	<b>Brass</b>
<b>Piston</b>	Brass
<b>Piston "O" Rings</b>	Buna-N
<b>Seal</b>	Teflon

Standard Specifications

<b>Maximum Inlet</b>	<b>500 psig</b>
<b>Temperature Range</b>	<b>0° to 140° F</b>
<b>Inlet Connection</b>	<b>CGA 600</b>
<b>Outlet Connection</b>	<b>3/16" Hose Barb</b>



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## High Performance Specialty Gas Regulators

### MESA Series 200 Dual Stage Cylinder Regulator

#### Standard Configuration

All regulators are sold complete with inlet CGA, two gauges and a diaphragm packless outlet control valve.

#### Recommended Applications

The two stage cylinder regulator is recommended where delivery pressure must be maintained constant as the cylinder pressure decreases. These regulators are ideally suited for continuous withdrawal of gas from pressurized cylinders.

Brass bodies are recommended for non-corrosive gases. Chrome plated brass bodies are also recommended for non-corrosive gases. The addition of chrome plating to the brass body helps to protect the outside body of the regulator from corrosive



#### Description

The MESA 200 Series regulators are precision manufactured from machined bar stock. This design minimizes contamination of the gas stream by in-board diffusion of atmospheric contaminants. The design also minimizes cross-contamination of the gas stream as is frequently encountered with less expensive forged body regulators.

#### Standard Materials of Construction

##### Body Options:

- Brass
- Chrome Plated Brass
- 316L Stainless Steel

##### Diaphragm:

- Teflon Lined 304 Stainless Steel

##### Seat:

- Tefzel

##### Seals:

- Teflon

##### Poppet:

- 316L Stainless Steel

##### Poppet Spring:

- Inconel 600

ambient conditions such as found in chemical plants and refineries.  
316L Stainless Steel bodies are recommended for mildly corrosive  
gases. Monel and Hastelloy bodies are available upon special request.

Inlet Filter:  
20 Micron 316 Stainless Steel  
Adjusting Knob:  
Black Anodized Aluminum

Available CGA: 110, 170, 180, 320, 326, 330, 346, 350, 510, 540, 580, 590, 660, 679 and 705



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**High Performance Specialty Gas Regulators**

**MESA Series 100 Single Stage Cylinder Regulator**

Standard Configuration

All regulators with the exception of the low inlet pressure series (see below) are sold complete with inlet CGA, two gauges and a diaphragm packless outlet control valve.

Recommended Applications

The single stage cylinder regulator is recommended where slight changes in delivery pressure are acceptable as the cylinder pressure decreases. These regulators are ideally suited for periodic withdrawal of gas from pressurized cylinders.



Brass bodies are recommended for non-corrosive gases. Chrome plated brass bodies are also recommended for non-corrosive gases. The addition of chrome plating to the brass body helps to protect the outside body of the regulator from corrosive ambient conditions such as found in chemical plants and refineries. 316L Stainless Steel bodies are

Description

The MESA 100 Series regulators are precision manufactured from machined bar stock. This design minimizes contamination of the gas stream by in-board diffusion of atmospheric contaminants. The design also minimizes cross-contamination of the gas stream as is frequently encountered with less expensive forged body regulators.

Standard Materials of Construction

Body Options:

- Brass
- Chrome Plated Brass
- 316L Stainless Steel

Diaphragm:

- Teflon Lined 304 Stainless Steel

Seat:

- Tefzel

Seals:

- Teflon

Poppet:

- 316L Stainless Steel

Poppet Spring:

recommended for mildly corrosive gases. Monel and Hastelloy bodies are available upon special request.

Inconel 600  
Inlet Filter:  
20 Micron 316 Stainless Steel  
Adjusting Knob:  
Black Anodized Aluminum

### Special Configuration for Low Inlet Pressure Applications

A specially designed regulator is available for low inlet pressure applications such as encountered when sampling hydrocarbon mixes in low pressure cylinders. The regulator has a special seat designed to insure precise control of the delivery pressure at low inlet pressures. The regulator is sold complete with inlet CGA and two gauges. The standard diaphragm packless valve is replaced by a packed outlet control valve.

Available CGA: 110, 170, 180, 320, 326, 330, 346, 350, 510, 540, 580, 590, 660, 679 and 705





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## MESA 500 Series 58L/103L Preset Flow Regulator

### Recommended Applications

The 500 Series regulator is for use with MESA's [58L and 103L Cylinders](#). These regulators are recommended for non-corrosive gas service. However, they have also been found acceptable for low level reactive gases provided the minor reactive component is less than 100 ppm in concentration and the regulator is removed from the cylinder after each use. MESA's 600 Series aluminum body regulator is recommended for extended use with reactive calibration gas standards. These regulators are recommended for non-corrosive gas service.

### Description

The 500 Series regulator is a single stage piston style regulator. The control valve permits constant gas flow and easy on/off. Each regulator comes with a cylinder pressure gauge and is available in five preset flow models.

### Recommended Applications

The 400 Series regulator is for use with MESA's [17L Cylinder](#). These regulators are recommended for non-corrosive gas service.

### Available Models

<b>Part Number</b>	<b>Flow Rate</b>
500-020	0.20
500-025	0.25
500-030	0.30
500-050	0.50
500-100	1.00
500-150	1.50
500-250	2.50
500-600	6.00

### Standard Materials

<b>Body</b>	<b>Brass Bar Stock</b>
<b>Spring Housing</b>	<b>Chrome Plated</b>
<b>Cap</b>	<b>Brass</b>
<b>Piston</b>	Brass
<b>Piston "O" Rings</b>	Buna-N
<b>Seal</b>	Teflon

### Standard Specifications

<b>Maximum Inlet</b>	<b>1,000 psig</b>
<b>Temperature Range</b>	<b>0° to 140° F</b>
<b>Inlet Connection</b>	<b>5/8-18 UNF (C-10)</b>
<b>Outlet Connection</b>	<b>3/16" Hose Barb</b>



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## MESA 600 Series 58/103L Multi-Flow Regulator

### Recommended Applications

The 600 Series regulator is for use with MESA's [58L, 103L and 104L Cylinders](#).

They can also be used on conventional high pressure cylinders and lecture bottles. These regulators are recommended for both non-corrosive and corrosive gas service including

Ammonia, Hydrogen Sulfide, Nitric Oxide and Sulfur Dioxide standards.

### Description

The 600 Series regulator is a single stage piston style regulator. All wetted parts of the regulator are either aluminum or stainless steel. The regulator has 8 switch selectable flow settings ranging from 0.2 to 6 liters per minute. It is available with either a brass or stainless steel gauge and various CGA connections.

### Available Models

Part Number	Gauge (psig)	Inlet
610-CGA	0-3,000	Brass CGA

620-CGA	0-3,000 SS	SS CGA
610-CGA-BRC10	0-1,000 Brass	Brass C-10
620-SSC10	0-1,000 SS	SS C-10

NOTE: C-10 is same as 5/8"- 18UNF

#### Standard Materials

<b>Body</b>	<b>Aluminum</b>
<b>Spring Housing</b>	<b>Aluminum</b>
<b>Cap</b>	<b>Aluminum</b>
<b>Nozzle</b>	<b>Aluminum</b>
<b>Seal</b>	Viton
<b>Seat</b>	Kel-F 50 Micron
<b>Inlet Filter</b>	Stainless Steel

#### Standard Specifications

<b>Maximum Inlet</b>	<b>2,000 psig</b>
<b>Temperature Range</b>	<b>0° to 140° F</b>
<b>Flow Settings</b>	<b>0.2, 0.3, 0.5, 1.0, 1.5, 2.5, 5.0, 6.0</b>
<b>Outlet Connection</b>	<b>3/16" Hose Barb</b>