



# MR10 SERIES

INLET 0 - 3,600 PSIG    OUTLET 0 - 500 PSIG

## MANUAL ADJUSTABLE PRESSURE REGULATOR FOR GAS OR FLUIDS

### Features

- Accurate
- **Miniature Size (2" Diameter by 4-1/4" High)**
- **Soft Seat Design for Zero-Leak**
- **303 Stainless Steel or Brass Body**
- **Self Venting**
- **Excellent Sensitivity**
- Panel Mount
- **Low Operating Torque**
- **Diaphragm Design**

### Technical Data

#### Materials of Construction

- Body     - 303 Stainless Steel  
          or Brass Construction
- Seat     - Kel-F
- Housing - Brass

#### Port Sizes and Connections

- 1/4" Pipe or CGA Fittings  
1/8" Gauge Port

#### Flow Capacity

$$C_v = 0.018$$

#### Pressure Ratings

- Inlet    -     0 to 3,600 PSIG (0 to 248 BAR)  
Outlet   -     0 to 500 PSIG (0 to 34.5 BAR)

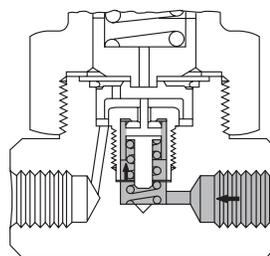
#### Temperature Ranges

- 40° F to +160° F;  
-40° C to +71° C

#### Weight

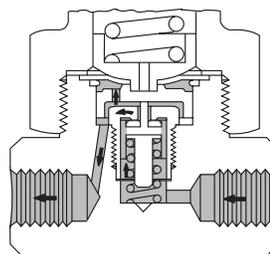
2 lbs.

### How It Works



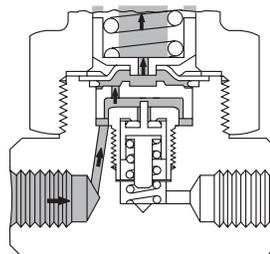
#### CLOSED

With the poppet against the seat, full upstream pressure is applied to the poppet effecting a dead tight seal.



#### REGULATING

As downstream process demands flow, the pressure acting on the bottom of the diaphragm decays, allowing the adjusting spring force to push the poppet down. This in turn allows flow to begin and pressure under the diaphragm to increase until balance is achieved between the adjusting spring force and the downstream pressure. This condition continues until the process ceases.



#### VENTING

When the handle is backed off to decrease the regulated pressure level, downstream pressure will vent into the spring cavity and exit via the small hole in the spring housing.



**CIRCLE SEAL CONTROLS, INC.**

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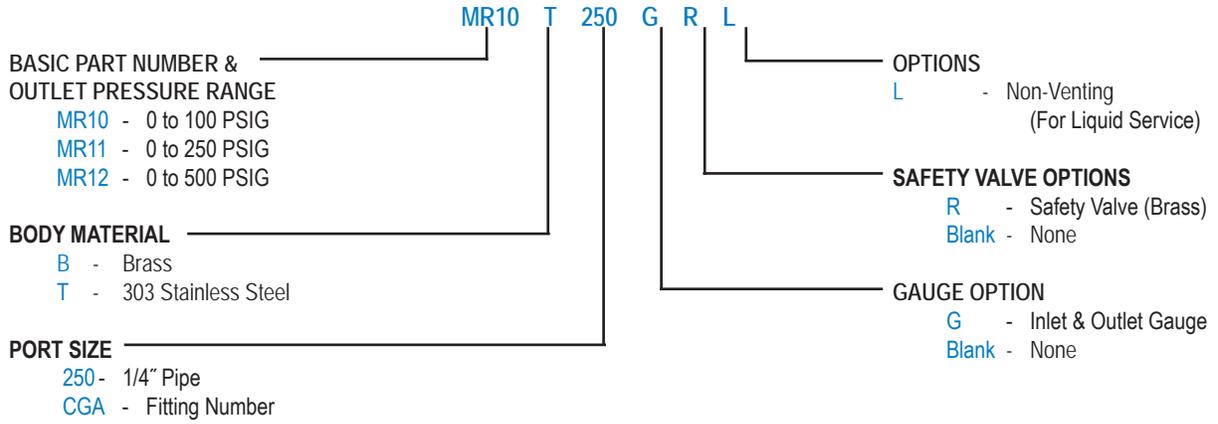
Certified to ISO 9001

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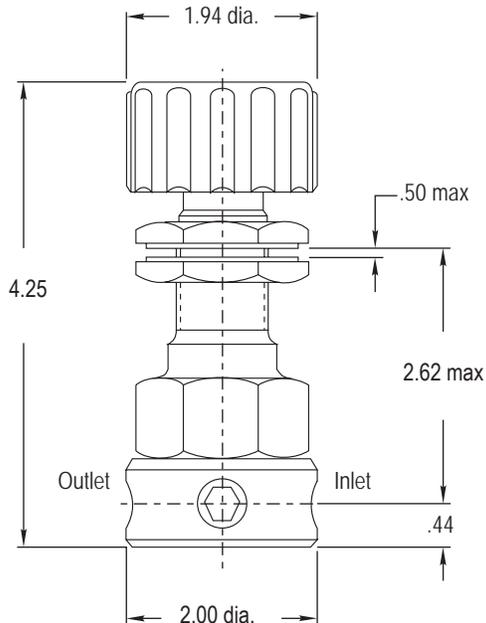
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## How To Order

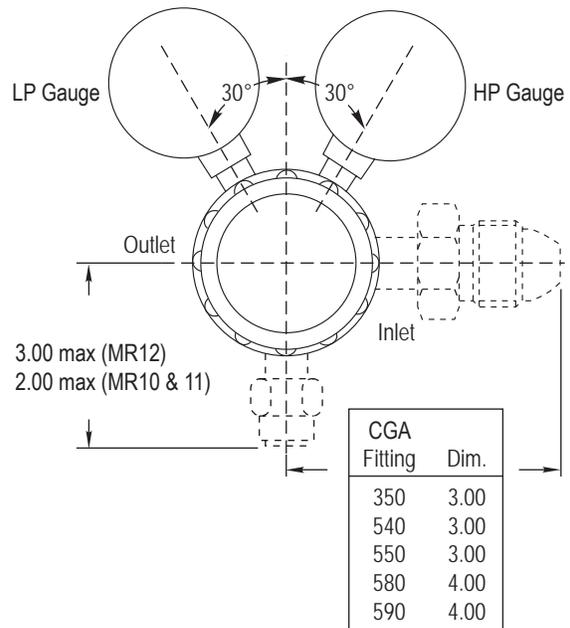


Notes: Outlet pressure rise per 100 psi inlet pressure decay: 3 to 4 psi  
 Please consult your Circle Seal Controls Distributor, Representative or the factory for information on special connections, operating pressures and temperature ranges.

## Dimensions



## Options



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