

# Model 113 Low Flow Gas Regulator

- Ambient temperature compensation
- Negligible inlet pressure effect
- Minimum internal volume
- Streamlined flow path
- Corrosion resistant, non-contaminating construction
- Provision for panel mounting
- Integral inlet filter

This low flow, temperature compensated regulator is designed for applications requiring precise control of gas flow as small as 1 cc/min. It is particularly suitable for analytical systems such as gas chromatography where it may be used to supply a constant, small flow of carrier or sample gas by maintaining a constant pressure ahead of a fixed resistance in the analyzing instrument. This regulator is designed and built to provide accurate, trouble-free service.

#### Inlet Pressure Effect

Less than 0.015 psi for 10 psi upstream variation

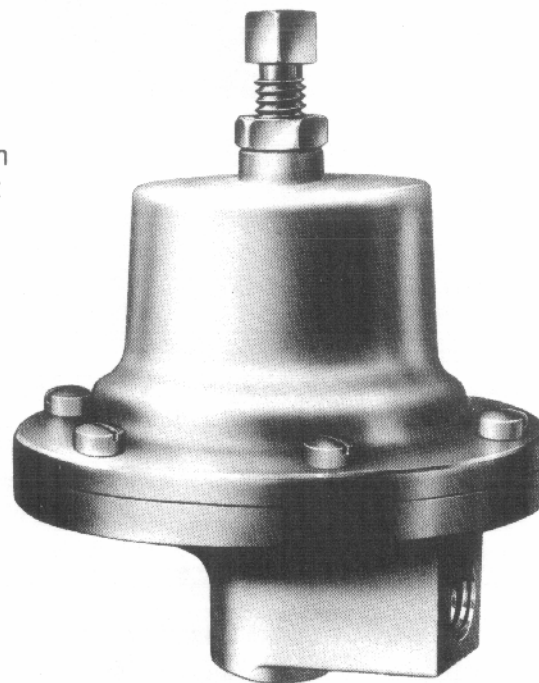
#### Temperature Effect

Less than 0.05 psi variation at 2 psi output pressure for 75° ambient temperature change

#### Specifications

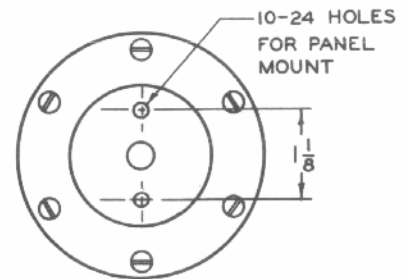
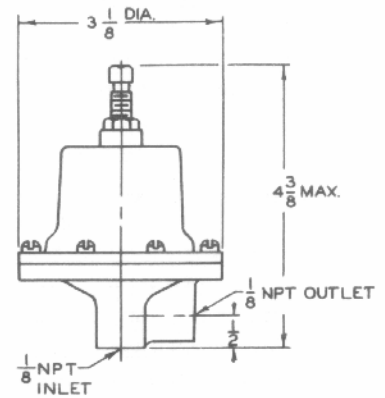
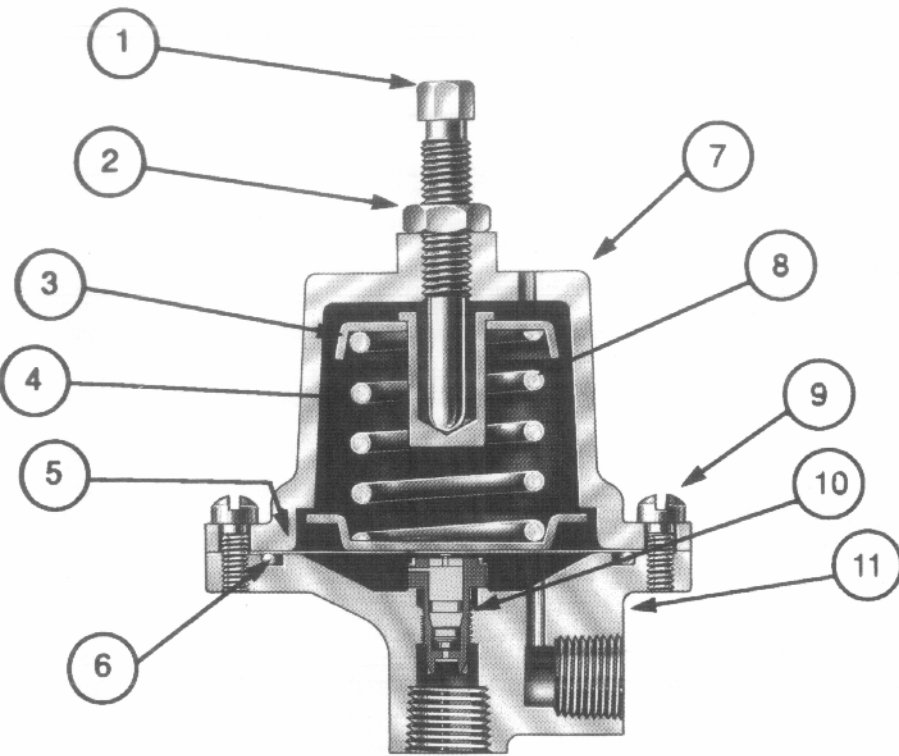
body size:	1/8"
connections:	threaded NPT
material:	die cast aluminum
ratings:	250 psi @ 180°F 150 psi @ 400°F
trim material:	nickel-plated brass with Nitrile seat, seating on a brass retainer
range spring:	Ni Span C
diaphragm:	type 302 stainless steel
gasket:	Viton O-ring
reduced	
pressure ranges:	2-20; 5-60; 60-120

Brass filter element provided in inlet port.  
Filters out particles as small as 5 microns  
Flow Coefficient: Max  $C_v$  0.006



**Masoneilan**

**DRESSER**



Ref. No.	Description
1	Adjusting Screw
2	Adjusting Screw Locknut
3	Upper Spring Button
4	Upper Spring Button Adapter
5	Diaphragm Subassembly (includes lower spring button)
6	Diaphragm O-Ring
7	Spring Case
8	Range Spring
9	Spring Case Screws
10	Trim Subassembly (Includes inlet filter)
11	Body

Facilities: Brazil, Canada, France, Germany, Italy, Japan, Mexico, Netherlands, Singapore, Spain, United Kingdom, United States



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