

**PRESSURE REGULATORS**

Special Service

## Airgas® LaserPLUS™ High-Flow Dome-Loaded Laser Regulators



**Description:** The Airgas® Special Service Laser Regulator is a high-flow dome-loaded regulator. This regulator has an integral remote sensing pilot which yields high flow capacity with near perfect performance, unique in a compact unit.

Since this regulator is dome loaded by a remote sensing pilot regulator, it becomes a servo-regulator, and the overall performance is determined by the performance of the pilot regulator.

This Laser Regulator is the key component in laser applications.

### Design Features

**Standard Encapsulated Seats With 10-micron Filters**

**Use With a Variety of Gases**

argon, helium, nitrogen, oxygen.

**Tamper Proof**

self-reseating internal safety valve.

**Conforms to CGA E-4 Standard**

for use with gas pressure regulators.

**Panel Mounting Option**

Bonnet threaded for mounting.

Specifications	
Maximum Rated Inlet Pressure	3,000 psig
Outlet Pressure Range	0-250, 0-500, 0-1,000 psig
Flow Capacity	Cv = 0.55
Decay Inlet Characteristics	0.3/100 psi
Ambient Temperature	70° F
Designed Leak Rate	1 x 10 <sup>-6</sup> scc/sec
Weight	8 lbs. (3.63 kg)
Ports	1/4" FNPT
Inlet	1/2" FNPT
Outlet	1/2" FNPT
Gauge Size	2 1/2" diameter

Materials	
Body	Brass bar stock
Bonnet	Brass bar stock
Seat	PTFE
Diaphragm	PTFE
Gauges	Brass
Filter	Nickel-plated sintered bronze – 10 microns
Seals	PTFE
Elastomeric Seals	Neoprene®

### Ordering Information

Product Number	Material	Max Inlet Pressure (psig)	Max Outlet Pressure (psig)	Capacity (scfh @ Max Del. Pressure)	Inlet Gauge Range (psig)	Outlet Gauge Range (psig)
Y11-750250	Brass	3,000	250	7,500	0-4,000	0-400
Y11-750500	Brass	3,000	500	15,800	0-4,000	0-600
Y11-7501000	Brass	3,000	1,000	29,500	0-4,000	0-2,000

### Available Options

Product Number	Description
Y11-9100887	Panel Mounting Kit