

**PRESSURE REGULATORS**

Special Service

## Ultra-Low Inlet Pressure Models



**Description:** These regulators are specifically designed to provide sensitive, accurate, low-pressure control for laboratory applications. They feature an oversized “pancake” body of magnesium alloy with a Buna-N diaphragm. These regulators are typically used in conjunction with other high-pressure regulators or on house-line systems that limit inlet pressure to 250 psig (except on model N570K the inlet pressure limit is 10 psig). Regulators are adjusted easily by removing the knurled nut and turning the screw to alter the tension on the diaphragm.

Because these regulators are not typically recommended for direct connection to cylinders, they are provided with a 1/4" FNPT inlet port. Direct cylinder connection is only permissible when using liquefied compressed gases with vapor pressures below 250 psig such as 1,3-butadiene, n-butane, isobutane, isobutylene, propane, and propylene. With these products, a CGA 510 connection must be used.

**Note:** Inlet pressure should never exceed maximum recommended inlet pressure.

**Design Features**

- Oversized Diaphragm**  
provides sensitive, accurate, low-pressure control.
- Remote Adjustment**  
prevents accidental outlet pressure change.
- Large, 2 1/2" Gauge**  
permits accurate, easy reading.
- Lightweight Construction**  
permits easy handling and installation.

Specifications	
Maximum Rated Inlet Pressure	10-250 psig
Outlet Pressure Ranges	9" - 13**, 1-5, 5-10 psig
Flow Capacity	Cv=0.002
Ambient Operating Temperature	-40° F to +150° F
Designed Leak Rate	Bubble-Tight (helium)
Weight	3 lbs
Ports (4)	1/4" FNPT
Outlet	1/4" FNPT

Materials	
Body	Magnesium Alloy
Bonnet	Magnesium Alloy
Diaphragm	Buna-N
Gauge	2 1/2" Brass
Nozzle	Brass
Linkage	316 Stainless Steel and Brass

Ordering Information							
Product Number	Material	Max Inlet Pressure (psig)	Max Outlet Pressure (psig)	Capacity (scfh @ Max Del. Pressure)	Relief Valve Setting (psig)	Inlet Gauge Range (psig)	Delivery Gauge Range (psig)
Y11-N570K	Magnesium Alloy	10	9" - 13**	290	28**	No Gauge	No Gauge
Y11-N570L	Magnesium Alloy	250	1-5	750	12	No Gauge	0-15
Y11-N570M	Magnesium Alloy	250	5-10	1,000	No Gauge	No Gauge	0-15

\* Water column pressure

Note: Model Y11-N570K does not include a gauge.