

## High Pressure - 820 Series Patented

### Heavy Duty High Pressure Regulators

820 Series high pressure regulator series for use on cylinders with a wide variety of non-corrosive inert gases. Piston sensor design gives structural reliability in high pressure use. Low torque control adjusting screw permits easy adjustment of pressures in closed or dead end systems.

#### TYPICAL APPLICATIONS

- High pressure testing
- Purging and charging
- Calibration kits
- Airline charging carts
- Chemical plants
- Manufacturing processes
- Research and development
- Laboratories

**Regulators May Be Configured To Your Specifications**



**820 Series**

**Due to order specific configurations, Smith Equipment can not accept returns of 800 Series regulators.**

**3 Year Limited Warranty**

Product Number	Max. Inlet Press. (PSIG)	Delivery Pressure	Inlet Gauge		Delivery Gauge	
			Range (PSIG)	Graduations (PSIG)	Range (PSIG)	Graduations (PSIG)
<b>823</b>	6,000	0-500	0-10,000	200	0-1,000	100
<b>824</b>	6,000	0-1,000	0-10,000	200	0-4,000	100
<b>825</b>	6,000	0-2,000	0-10,000	200	0-4,000	100
<b>826</b>	6,000	0-4,000	0-10,000	200	0-6,000	100
<b>827</b>	6,000	0-6,000	0-10,000	200	0-6,000	100

Regulators  
Flowmeters

### CONFIGURATOR EXAMPLE:

**825 - 66 - 26**

#### OPTION 1: MODEL SERIES AND OUTLET PRESSURE

823	0-500 PSIG
824	0-1000 PSIG
825	0-2000 PSIG
826	0-4000 PSIG
827	0-6000 PSIG

#### OPTION 2: OUTLET FITTINGS

00	None
66	1/4" (6mm) MPT Stainless Steel needle valve

#### OPTION 3: CGA INLET FITTINGS

	Max. CGA Pressure - PSIG
00 None	
08 CGA 540 (Oxygen)	3000
09 CGA 580 (Inert)	3000
26 CGA SS 347	5500
27 CGA SS 677	7500
28 CGA SS 680	5500

NOTE: SS - Stainless Steel

**NOTE:** Self relieves through bonnet

## Special Purpose - 3-Stage Nitrogen - Low Pressure

### TO SUPPLY CONSTANT PRESSURE NITROGEN TO OIL-FILLED SUB-STATION POWER TRANSFORMERS

This special purpose regulator is designed to supply constant pressure nitrogen to oil filled sub-station power transformers. This regulator will maintain oil-filled transformer atmospheres at approximately .5 PSIG. This design is constructed with a two stage preset regulator connected to a highly sensitive single stage regulator that maintains a .5 PSIG outlet pressure. A built in self relieving valve set at 8 PSIG protects the system from over-pressurization due to temperature variations. This unit is also designed with a purge valve that has a preset pressure of 8 PSIG which is connected to the second stage allowing quick gas filling of transformers. This highly reliable design provides constant outlet pressure and flow. Adjusting screws are concealed to prevent tampering.



**237-142958C**



**237-350858A**

**3 Year Limited Warranty**

Pre-set Outlet Pressures:  
 Stage 1 @ 150 PSIG into 2nd Stage  
 Stage 2 @ 8 PSIG into 3rd Stage  
 Stage 3 @ .4 to .6 PSIG outlet pressure  
 Purge Pressure: @ 8 PSIG  
 Maximum Input Pressure 3000 PSIG  
 Delivery (Outlet) Pressure Range .4 to .6 PSIG  
 Outlet Fitting 3/8" FNPT  
 Purge Valve Outlet 1/4" MNPT  
 580 CGA inlet cylinder connection  
 Operating temperature range is -40°F to +160°F

For version with electronic gauge, contact customer service for availability and quantity requirements.  
**(15 amp, 125 or 250V AC)**

