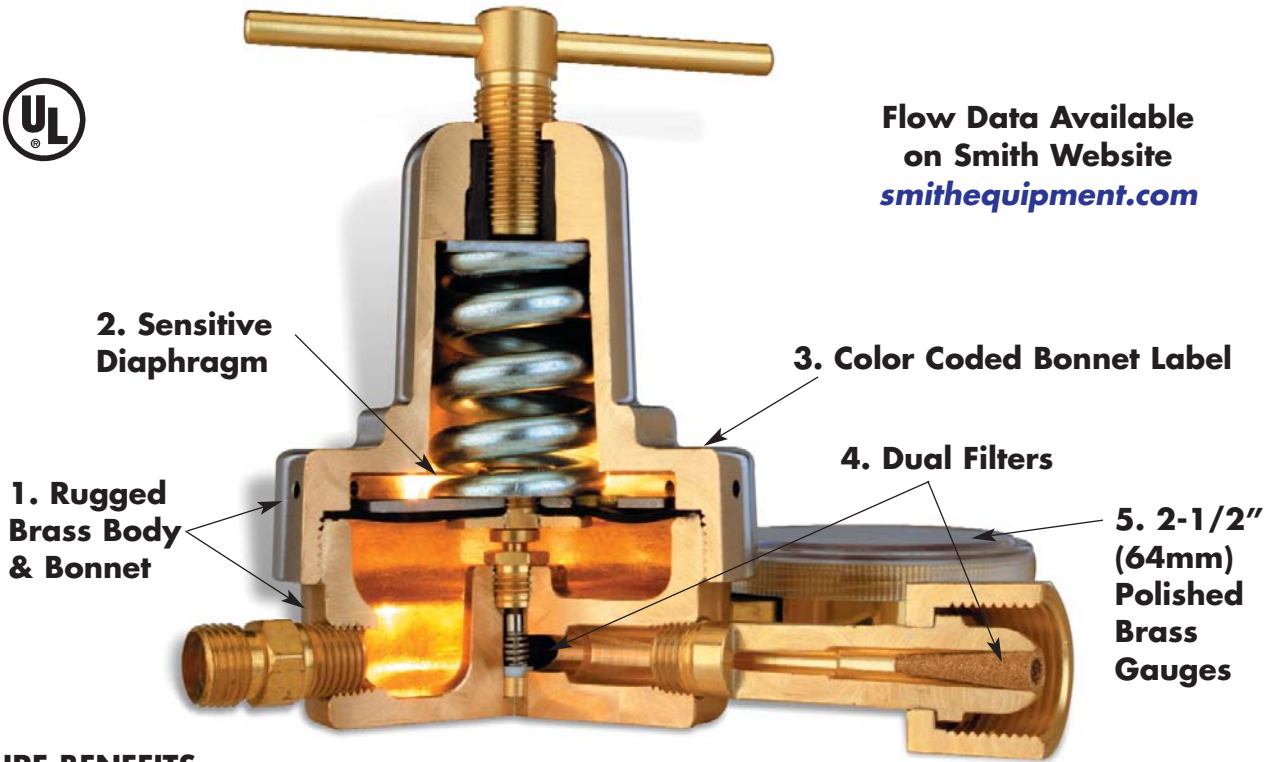


Heavy Duty HB1500 Series



Flow Data Available
on Smith Website
smithequipment.com

Regulators
Flowmeters



FEATURE BENEFITS

- 1 Rugged Brass Construction**
Provides durability and corrosion resistance.
- 2 Extra Sensitive Diaphragms**
HB1500 Series designed with nylon impregnated Neoprene for long, accurate service.
- 3 Color Coded Bonnet**
For easy gas service identification.
- 4 Dual Filters**
Internal filter and inlet filter protect high pressure seat from damage by debris entering the regulator.
- 5 2-1/2" (64mm) Diameter Polished Brass Gauges**
Dual scale, polished brass gauges (PSI/Bar) provide high visibility and excellent corrosion resistance. Constructed with Polycarbonate shatter resistant lenses.
- 6 External Relief Valve**
To protect low pressure side of regulator from damage due to inadvertent high pressure surge.

3 Year Limited Warranty



HB1500 Series
Nylon Impregnated
Neoprene Diaphragm



Heavy Duty Brass HB1500 Series



Regulator
With Hard Hat™

BRASS CONSTRUCTION FOR DEPENDABLE SERVICE IN CORROSIVE ATMOSPHERES

HB1500 series single stage regulators comprise a complete line of versatile regulators for welding, cutting, heating and other industrial applications. Heavy duty construction and simplified design provides high gas flow and longer trouble-free operation.

3 Year Limited Warranty

Flow Data Available
on Smith Website
smithequipment.com

Regulators
Flowmeters

Oxygen Regulators

Stock Number	Gas Used	Delivery Pressure	Gauges (2-1/2" /64mm Dia.)		Inlet Connection	Outlet Connection	Max Inlet Pressure
			Inlet	Outlet			
HB1510A-540	Oxygen	0-150 PSIG 0-10 Bar	4000 PSIG	200 PSIG	CGA 540	9/16"-18 RH "B"	3000 PSIG 207 Bar
HB1510A-540S*			276 Bar	14 Bar			

Acetylene Regulators

Stock Number	Gas Used	Delivery Pressure	Gauges (2-1/2" /64mm Dia.)		Inlet Connection	Outlet Connection	Max Inlet Pressure
			Inlet	Outlet			
HB1520B-300	Acetylene	0-15 PSIG 0-1 Bar	400 PSIG	30 PSIG	CGA 300	9/16"-18 LH "B"	400 PSIG 28 Bar
HB1520B-300S*			28 Bar	2 Bar			
HB1521B-510			CGA 510				
HB1521B-510S*							

Propane, Propylene, MAPP® & Natural Gas Regulators

Stock Number	Gas Used	Delivery Pressure	Gauges (2-1/2" /64mm Dia.)		Inlet Connection	Outlet Connection	Max Inlet Pressure
			Inlet	Outlet			
HB1522B-510	LP Gas	0-50 PSIG 0-3 Bar	400 PSIG 28 Bar	60 PSIG 4 Bar	CGA 510	9/16"-18 LH "B"	400 PSIG 28 Bar

Other Gases

Stock Number	Gas Used	Delivery Pressure	Gauges (2-1/2" /64mm Dia.)		Inlet Connection	Outlet Connection	Max Inlet Pressure
			Inlet	Outlet			
HB1530-580	Nitrogen	0-275 PSIG 0-19 Bar	4000 PSIG 276 Bar	400 PSIG 28 Bar	CGA 580	5/8"-18 RH Internal	3000 PSIG 207 Bar

* Includes HB190 "Hard Hat™" Gauge Guard.

NOTE: These regulators are not suitable in cryogenics or lox or other liquid gas systems.

ACCESSORIES



HB190
"Hard Hat™"
Gauge/Regulator
Guards
see page 70



Check Valves
see page 68

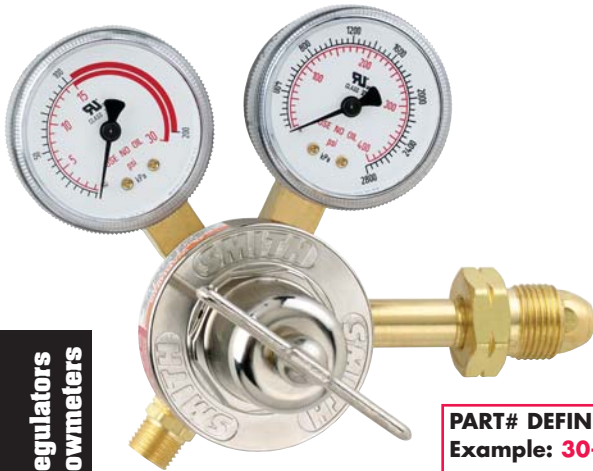


Flashback
Arrestors
see page 67



Medium Duty Single Stage Series 30™ Regulators

Flow Data Available on Smith Website
smithequipment.com



Regulators Flowmeters

PART# DEFINITION
Example: 30-15-510
 30 → SERIES
 15 → MAXIMUM OUTLET PRESSURE
 510 → CYLINDER CGA CONNECTION

Rugged medium duty industrial grade regulators are extremely durable and contain Smith's exclusive Sure Seat™ filtered seat technology for extended seat and regulator life. Filtered seat prevents contamination from entering the seating area reducing repair costs and down-time. These highly accurate regulators are manufactured with a rugged forged body and corrosion resistant bright nickel-plated bonnet. Series 30™ are made in the USA and backed by a 3 year limited warranty.

3 Year Limited Warranty

Oxygen Regulators

Stock Number	Gas Used	Delivery Pressure	Gauges (2" / 51mm Dia.)		Inlet Connection	Outlet Connection	UL Listed Max Inlet Pressure
			Inlet	Outlet			
30-100-540	Oxygen	0-100 PSIG 0-7 Bar	4000 PSIG 276 Bar	150 PSIG 10 Bar	CGA 540	("B") 9/16"-18 RH	3000 PSIG 207 Bar
30-20-540		0-20 PSIG 0-1 Bar					

Acetylene Regulators

Stock Number	Gas Used	Delivery Pressure	Gauges (2" / 51mm Dia.)		Inlet Connection	Outlet Connection	UL Listed Max Inlet Pressure
			Inlet	Outlet			
30-15-510	Acetylene	0-15 PSIG 0-1 Bar	400 PSIG 28 Bar	30 PSIG 2 Bar	CGA 510	("B") 9/16"-18 LH	400 PSIG 28 Bar
30-15-300					CGA 300		
30-15-520					CGA 520		
30-15-200					CGA 200		

Propane, Propylene, MAPP® & Natural Gas Regulators

Stock Number	Gas Used	Delivery Pressure	Gauges (2" / 51mm Dia.)		Inlet Connection	Outlet Connection	UL Listed Max Inlet Pressure
			Inlet	Outlet			
30-50-510	LP Gas	0-50 PSIG 0-3 Bar	400 PSIG 28 Bar	60 PSIG 4 Bar	CGA 510	("B") 9/16"-18 LH	400 PSIG 28 Bar

Other Gases

Stock Number	Gas Used	Delivery Pressure	Gauges (2" / 51mm Dia.)		Inlet Connection	Outlet Connection	UL Listed Max Inlet Pressure
			Inlet	Outlet			
30-150-580	Argon/ Nitrogen	0-150 PSIG 0-10 Bar	4000 PSIG 276 Bar	150 PSIG 10 Bar	CGA 580	5/8"-18 RH Internal	3000 PSIG 207 Bar
30-100-320					CGA 320		
30-100-350	Hydrogen/ Methane	0-100 PSIG 0-7 Bar			CGA 350	("B") 9/16"-18 LH	

ACCESSORIES



H195
 "Hard Hat"™
 Gauge/Regulator
 Guards
 see page 70



Check Valves
 see page 68



**Flashback
 Arrestors**
 see page 67



Series 30™ - 2 Stage



Series 30™ Two Stage Regulators

Drop cylinder pressure to working pressure in two stages for consistent and accurate outlet pressure and flow regardless of inlet pressure. Recommended where outlet pressure and flow must be maintained without variation.



100% TESTED AND INSPECTED

3 Year Limited Warranty



**H197
"Hard Hat"™
Gauge/Regulator
Guards
see page 70**

Series 30™ Two Stage Regulators

Stock Number	Gas Used	Delivery Pressure	Gauges (2" / 51mm Dia.)		Inlet Connection	Outlet Connection	UL Listed Max Inlet Pressure
			Inlet	Outlet			
35-125-540	Oxygen	0-125 PSIG	4000 PSIG	150 PSIG	CGA 540	("B")	3000 PSIG
		0-9 Bar	276 Bar	10 Bar		9/16"-18 RH	207 Bar
35-15-510	Acetylene	0-15 PSIG	400 PSIG	30 PSIG	CGA 510	("B")	400 PSIG
		0-1 Bar	28 Bar	2 Bar		9/16"-18 LH	28 Bar
35-50-580	Nitrogen/ Helium/Inert	0-50 PSIG	4000 PSIG	60 PSIG	CGA 580	5/8"-18 RH	3000 PSIG
		0-3 Bar	276 Bar	4 Bar		Internal	207 Bar

**Regulators
Flowmeters**

**Flow Data Available
on Smith Website
smithequipment.com**

Single Stage Series 30™ Medium Duty & Heavy Duty 1500 Series Station Regulators



**HB1500 Series
Heavy Duty**



**Series 30™
Medium Duty**

Heavy and Medium duty brass line regulators are rugged, accurate and corrosion resistant with shatter resistant polycarbonate gauge lenses.

Stock Number	Gas Used	Delivery Pressure	Gauges Diameter		Outlet Connection	UL Listed Max Inlet Pressure
			Inches	mm		
HB1575A ¹	Oxygen	0-150 PSIG	2 1/2"	64	("B") 9/16"-18 RH	500 PSIG
36-150 ¹		0-10 Bar	2"	51		35 Bar
HB1579A ²	Acetylene	0-15 PSIG	2 1/2"	64	("B") 9/16"-18 LH	200 PSIG
36-15 ²		0-1 Bar	2"	51		14 Bar
HB1580A ²	LP Gas	0-50 PSIG	2 1/2"	64	("B") 9/16"-18 LH	500 PSIG
*36-50 ²		0-4 Bar	2"	51		35 Bar

*Delivery pressure range 0-50 PSIG; 0-4 Bar

¹ "C" size inlet connection (7/8"-14 RH).

Fits station valve NCG No. M960R, Rego. No. 7160.

² "C" size inlet connection (7/8"-14 LH).

Fits station valve NCG No. M961R, Rego. No. 7161.

NOTE: Body inlet 1/4" NPT.

3 Year Limited Warranty

Safety • Performance • Durability

2-Stage & Single Stage Regulation Information

As inlet pressures drop in single stage regulators, outlet pressure will automatically increase. This phenomenon is known as Decay-Rise. The amount is determined by the regulator design and size. Ranges typically run between 1/4 and 2 PSI per 100 PSI in cylinder pressure drop.

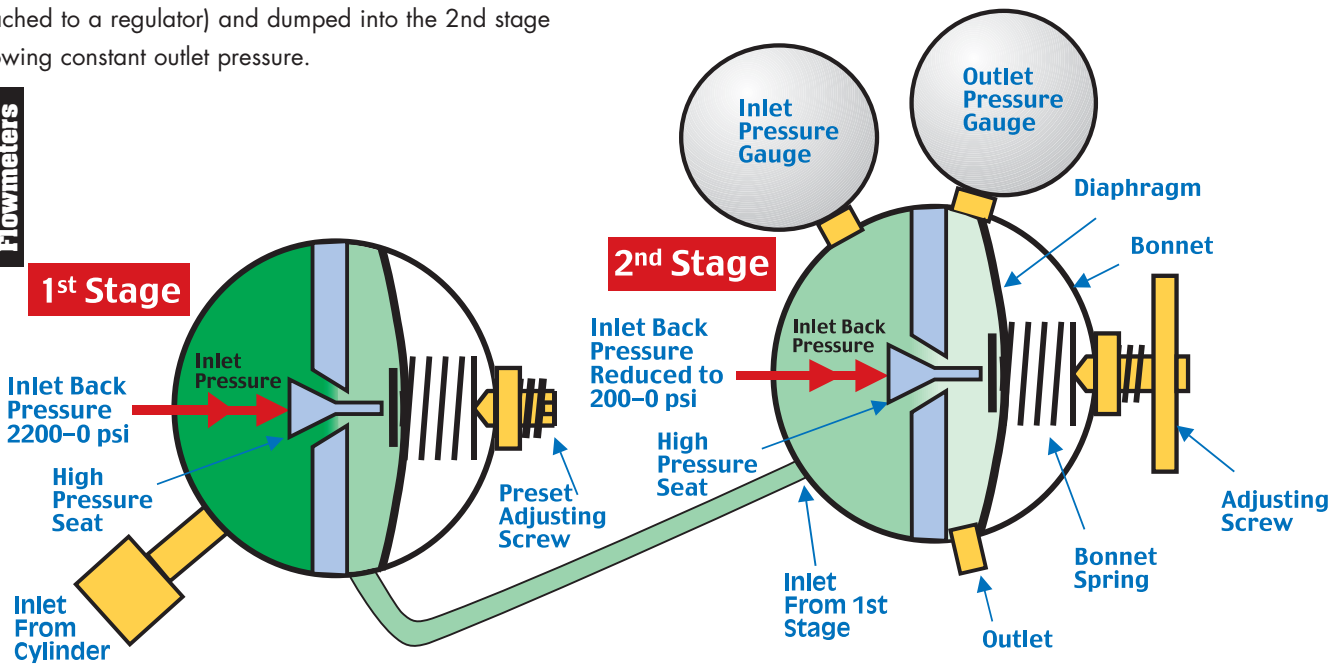
This is caused by a drop in back pressure against the high pressure seat which allows the bonnet spring to push the seat further open.

In a 2-stage regulator the inlet pressure variation range is decreased by the 1st stage (which is basically a regulator attached to a regulator) and dumped into the 2nd stage allowing constant outlet pressure.

Back pressure that can push against the high pressure seat is reduced to the 2nd stage by the 1st stage.

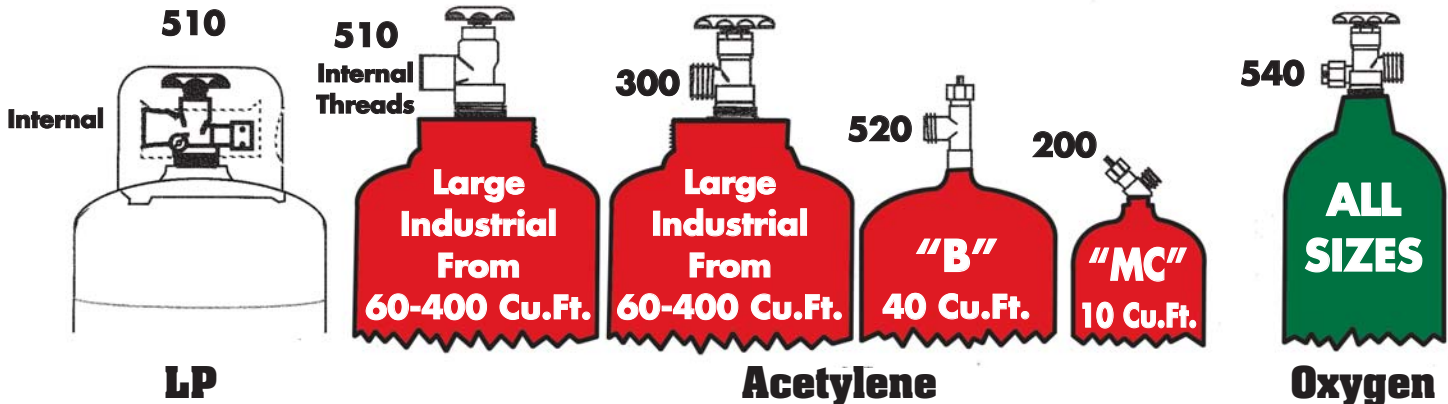
In a single stage regulator the high pressure may drop from 2200 to 0 PSI. In a 2-stage regulator it may only drop from 200 to 0 PSI thereby drastically reducing the change in back pressure against the high pressure seat which allows for a more even, consistent outlet pressure and flow.

Regulators
Flowmeters



Cylinder Connection Information

(CGA Number Designations)



Series 30™ Regulator Twin Packs



FEATURE BENEFITS

1. Solid Brass Industrial Construction
2. Durable Teflon® High Pressure Seat
3. Convenient & Economical
4. 100% Tested and Inspected

HTP2	30-100-540 Delivery Press: 0-100 PSIG Inlet Connection: CGA 540	Oxygen	30-15-510 Delivery Press: 0-15 PSIG Inlet Connection: CGA 510	Fuel Gas: LP / Acetylene
	HTP5	30-100-540 Delivery Press: 0-100 PSIG Inlet Connection: CGA 540	Oxygen	30-15-300 Delivery Press: 0-15 PSIG Inlet Connection: CGA 300

 Regulators
Flowmeters

HVAC/Refrigeration Purge and Test Regulators

Smith's single stage nitrogen regulator is specially designed to meet the specifications of HVAC refrigerant purging applications. This regulator, conveniently packaged with the necessary hose, is used with nitrogen to test an HVAC system to locate leaks and to purge an area for installation and repair. Its compact size is suitable for use where space is limited.

- Economical and accurate
- Solid brass body provides durability
- Special Option: Available with heavy duty charging hose outfitted with appropriate connections.
- Large durable nylon adjusting knob for easy pressure adjustment
- Highly accurate 2" (51mm) gauges with shatter resistant lenses



30-450-580

Stock Number	Gas Used	Delivery Pressure	Gauges (2" / 51mm Dia.)		Inlet Connection	Outlet Connection	Max Inlet Pressure
			Inlet	Outlet			
30-450-580	Nitrogen	0-450 PSIG 31 Bar	4000 PSIG 276 Bar	600 PSIG 41 Bar	CGA 580	7/16"-20 External Flair Fitting	3000 PSIG 207 Bar



RL260

SINGLE HOSE FOR NITROGEN See page 65 for RL260 Nitrogen Hose information.

6' (1.8m) x 1/4" (6mm) Heavy Duty Charging Hose for use with Nitrogen for HVAC Purging Applications. (To Regulator: 7/16"-20 RH Internal • To AC Unit: 7/16"-20 RH w/core)

1 Year Limited Warranty

Safety • Performance • Durability

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



820 Series

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

Regulators May Be Configured To Your Specifications

3 Year Limited Warranty

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
09	CGA 580 (Brass) 3000
26	CGA SS 347 5500
27	CGA SS 677 10,000
28	CGA SS 680 6000

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

237-142958A Nitrogen Regulator

3 Stage

Delivery Range .4 to .6 PSI

Input 3000 PSI (CGA 580)

Standard: 3/8" NPT Female Outlet

Standard: 580 Inlet Connector

Inlet Pressure Gauge

Pre-set: Stage 1 @ 150 PSI

Stage 2 @ 30 PSI

Stage 3 @ .4 to .6 PSI

- Highly reliable design
- Constant pressure
- 3rd Stage Regulator is self-relieving to protect the transformer

3 Year Limited Warranty



237-142958B



Flowmeter Regulator



SMITH'S EXCLUSIVE SELF-CENTERING BALL FLOW TUBE

Smith's exclusive ball-centering flow tube provides accurate flow readings even if the tube is tipped. This ensures good weld quality and gas savings.



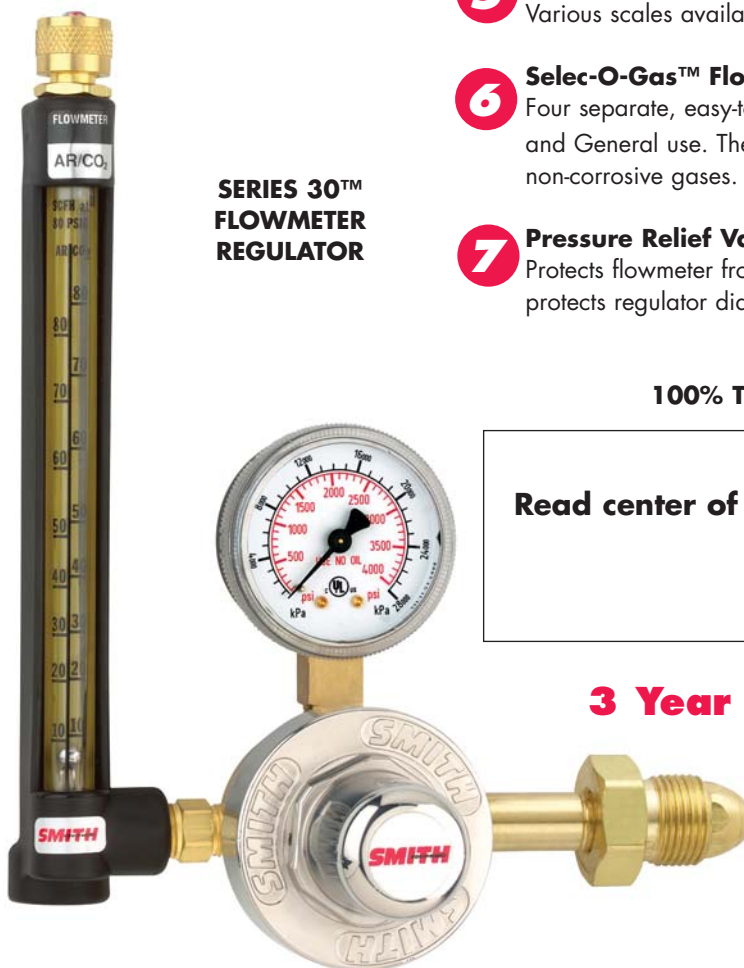
OTHERS

Non self-centering flow tube ball tends to float off center. Actual gas flow can be up to 2-1/2 times greater than is indicated.

FEATURE BENEFITS

- 1 Unique Self-Centering Ball Guide**
Exclusive self-centering design retains ball in the center of gas flow for accuracy and savings.
- 2 Extra Long Flow Tube**
Expanded scales are easy to read and accurate within 3% of full reading. Can be attached to regulators or pipeline installations.
- 3 Protective Housing**
Flow tubes are protected from accidental damage on three sides while offering unobstructed view of flow reading.
- 4 Single Stage Flowmeter Regulators**
Provides unmatched performance in their class for efficient and accurate regulation. Series 30™ is equipped with Lexan™ shatter resistant flow tubes.
- 5 Scale Selection**
Various scales available for a variety of applications.
- 6 Selec-O-Gas™ Flowmeter Regulators**
Four separate, easy-to-read scales for Argon, CO₂, Helium and General use. The general scale can be used for most non-corrosive gases.
- 7 Pressure Relief Valve**
Protects flowmeter from damage due to inlet pressure surges and protects regulator diaphragm from bursting.

Regulators
Flowmeters



**SERIES 30™
FLOWMETER
REGULATOR**

100% TESTED AND INSPECTED

NOTE:
Read center of ball on all Smith Flowmeters

3 Year Limited Warranty

Flowmeter Regulators

SERIES 30™ PREMIUM SINGLE STAGE FLOWMETER REGULATORS

Rugged medium duty industrial grade regulators provide efficient and accurate regulation, also includes self-centering flowball. Has many features found in more expensive flowmeter regulators. Contains Smith's exclusive Sure Seat™ filtered seat technology for extended seat and regulator life. Filtered seat prevents contamination from entering the seating area reducing repair costs and down-time. Filtered seat also reduces CO₂ freeze-up. Regulators are manufactured with a rugged forged body with bright nickel-plated bonnet. Made in the USA and backed by a 3 year limited warranty.



Series 30™ Single Stage Flowmeter Regulators

Regulators
Flowmeters

Stock No.	Gas Used	Flow Range	Preset Delivery Pressure	Flowmeter	Inlet Connection	Outlet Connection	Maximum Inlet Pressure
32-80-580	Argon/CO ₂	0-80 SCFH	80 PSIG	H1103E	CGA 580	5/8" - 18 RH Internal	3000 PSIG 207 Bar
32-80-320	CO ₂	0-38 LPM	6 Bar		CGA 320		
32-30-580 Selec-O-Gas™	Argon/CO ₂	0-60 SCFH 0-28 LPM	30 PSIG 2 Bar	H1230E	CGA 580		
	Helium	0-190 SCFH 0-90 LPM					
	General/ Any Gas	0-10 Range Scale					

NOTE: Add (-6) to end of part number to include 6' X 1/4" Inert gas hose.

* **SELEC-O-GAS™ Regulator** Does the jobs of more than 3 common flowmeters.

Has 3 separate scales: ARGON/CO₂, HELIUM & GENERAL GAS.

3 Year Limited Warranty

H2051 SINGLE STAGE FLOWMETER REGULATOR

Exceptional value and compact design, provides precise shield gas regulation for MIG and TIG welding applications and more. Shatter resistant polycarbonate flow tube features triple scale for Argon, Helium and Argon/CO₂ and has a packless O-ring flow tube seal which reduces maintenance. Built-in rupture disc reduces possibility of flow tube damage due to high pressure inlet surge. Precision flow adjustment valve locks flow at desired setting.



Stock No.	Gas Used	Flow Range	Preset Delivery Pressure	Inlet Connection	Outlet Connection	Maximum Inlet Pressure
H2051A-580	Argon/CO ₂ Argon, Helium	0-50 SCFH 0-24 LPM	50 PSIG 3 Bar	CGA 580	5/8" - 18 RH Internal	3000 PSIG
*H2051A-580H						

H2051A-580H

* Includes 6' (1.8m) hose with inert hose connections.

3 Year Limited Warranty



Series 30™ Dual Flowmeter Regulator



33-50-580

FEATURE BENEFITS

- Dual Scale Calibration
- Preset at 50 PSIG
- Back Pressure Compensated Flow Tube
- Sensitive Needle Valve for Fine Adjustment
- Durable Lexan™ Flow Tube Cover
- Large 2" (51mm) Cylinder Contents Gauge
- Dual Scale

3 Year Limited Warranty

Stock No.	Gas Used	Flow Range	Flowmeter	Inlet Connection	Outlet Connection
33-50-580 Dual Scale	Argon, CO ₂	0-50 SCFH 0-28 LPM	H2230	CGA 580	5/8" - 18 RH
	Helium	0-160 SCFH 0-75 LPM			

Rear Entry Liquid Cylinder Regulators



FEATURE BENEFITS

- Easy to read single scale 2-1/2" gauge
- Ideal for non-corrosive high purity applications
- Nickel plated brass body and bonnet for corrosion resistance
- Large 2-1/8" SST diaphragm for precise control of pressure
- Easy to adjust hand knob
- Two year limited warranty

2 Year Limited Warranty

NOTE: Additional configurations available in Smith specialty gas regulator catalog.

Stock No.	Outlet PSIG Pressure	CGA Inlet Fitting
252-00-02	0-100	CGA320
252-00-08	0-100	CGA540
252-00-09	0-100	CGA580
254-00-02	0-200	CGA320
254-00-08	0-200	CGA540
254-00-09	0-200	CGA580
255-00-02	0-350	CGA320
255-00-08	0-350	CGA540
255-00-09	0-350	CGA580
256-00-02	0-500	CGA320
256-00-08	0-500	CGA540
256-00-09	0-500	CGA580

Regulators
Flowmeters



REGULATORS FOR DISPOSABLE CYLINDERS

Attaches to 14.1 oz. and 16 oz. disposable tanks.

Stock No.	Outlet PSIG Pressure	Gas
249-499	4-8	Oxygen
249-500	16-18	LP, MAPP®, Propylene

1 Year Limited Warranty

Fits "B" 9/16" hoses

Flowmeters



Flowmeter assemblies are designed to operate at an inlet pressure of 30 PSIG (except H1103 which is designed to operate at an inlet pressure of 80 PSIG). They may be attached to regulators or pipeline installations. All flowmeters have 1/4" (6mm) NPT female inlets.

FEATURE BENEFITS

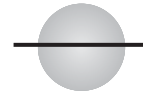
- 1** Flow tube is extra long and is accurate to within 3% of the full scale reading. Tubes are made of shatter resistant Lexan™.
- 2** Flow tube has a unique ball guide which centers the ball in the tube and keeps it centered. A ball float in a non-centering tube allows the ball to float off-center and will result in greater flows than the reading indicates.

Selec-O-Gas™ Flow Tube - Just rotate the outer tube to the scale you desire for:

- Argon
- CO₂
- Helium
- General/Any Gas

Shatter resistant Lexan™ tube

NOTE: Read center of ball on all Smith Flowmeters



Regulators
Flowmeters

HEAVY DUTY FLOWMETERS

Stock No.	Gas Used	Flow Range	Tube No.	Inlet Connection	Outlet Connection	Preset Delivery Pressure
H1103E	CO ₂ /Argon	0-80 SCFH	13220	1/4" NPT	5/8" - 18 RH	80 PSIG
H1230E Selec-O-Gas™	CO ₂ /Argon Helium, General	Various	14254	Male	Internal	30 PSIG

STANDARD DUTY FLOWMETER

Stock No.	Gas Used	Flow Range	Tube No.	Inlet Connection	Outlet Connection	Preset Delivery Pressure
H2230 Econ. Multi-Scale	Argon/CO ₂ Helium	Various	N/A	1/4" NPT Male	5/8" - 18 RH Internal	50 PSIG
H2231 Econ. Multi-Scale				5/8" - 18 RH External		

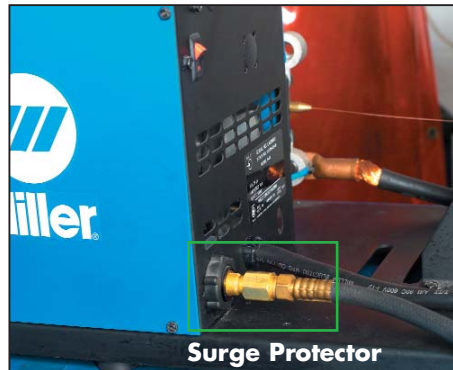
CAUTION: Do Not Connect Flowmeters Directly to Gas Cylinder.

NOTE: When using Argon/CO₂ mix, read Argon scale.

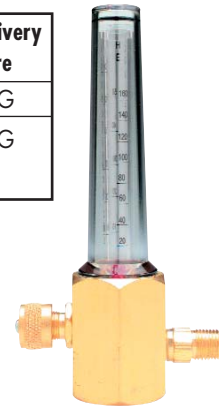
1 Year Limited Warranty

SURGE PROTECTORS - 15001 Series

Fixed flow surge protectors designed for MIG welding applications, eliminates sudden rush of shield gas sometimes caused by accumulator effect of MIG welding system components. Flows listed are at 30 PSI inlet pressure. Female thread size 5/8" (16mm) - 18 UNF, male thread size 5/8" (16mm) - 18 UNF (connects directly to wire feeder or welder).



Surge Protector



H2230



H2231



15001-30

Stock No.	CO ₂	Air	Argon	Helium	Nitrogen	Hydrogen	Oxygen	Orifice Diameter
15001-20	20	24	21	65	25	91	23	.026
15001-30	30	37	32	100	38	140	35	.032
15001-40	39	48	41	129	49	182	46	.037



Series 30™ Single Stage Flow Gauges



31-50-580



31-50-580-6

**3 Year
Limited Warranty**

FEATURE BENEFITS

- Compact Design
- Machined Brass Body
- Neoprene/Nylon Diaphragm
- 2" (51mm) Diameter Gauges
- Protective Inlet Filter - Sure-Seat™
- Self Re-Seating Pressure Relief Valve
- 0 - 4000 Inlet Gauge
- 10 - 50 SCFH Delivery Gauge

Stock No.	Gas Used	Flow Range	Inlet Connection	Outlet Connection
31-50-580	Argon	10-50 SCFH	CGA 580	5/8" - 18RH Internal
31-50-580-6*				
31-50-320	CO ₂	0-50 SCFH	CGA 320	

* Includes 6' (1.8m) hose with inert hose connections.

FIXED FLOW ADAPTORS - H1400 Series

Designed for welding operations or other applications requiring fixed gas flows. Installs in regulator outlet or directly on 30 PSIG pipeline outlet without regulator. Set regulator at 30 PSIG and be assured of correct gas flow. Inlet filter protects orifice from debris. F.M. thread size 5/8" (16mm) - 18 U.N.F. Male thread size 1/4" NPT (6mm).

Stock No.	Flow SCFH (30 PSIG Inlet)							Orifice Diameter
	CO ₂	Air	Argon	Helium	Nitrogen	Hydrogen	Oxygen	
H1400-20	20	24	21	65	25	91	23	.026
H1400-30	30	37	32	100	38	140	35	.032
H1400-40	39	48	41	129	49	182	46	.037
H1400-50	50.5	62	53	167	63	234	59	.042



H1400-20

Regulators
Flowmeters

Regulator Warranty Information

3 - Year Limited Regulator Warranty:

Smith Equipment warrants to the purchaser, all Smith Equipment Gas Regulators against defects in materials and workmanship (parts and labor) for a period of three years. All metallic regulator components are warranted for a period of three years (parts only).

NOTE: Disposable cylinder regulators are warranted for a period of one (1) year.

The warranty period is established by the manufacturer's date code which is imprinted on the product or date of purchase if proof of purchase date is provided by the purchaser with the warranty claim. Smith Equipment makes no other warranty of any kind, expressed or implied, including without limitation no warranty of merchantability or fitness for any purpose. During the warranty period, Smith Equipment agrees, at its option, to repair, replace or refund the purchase price of any product found defective upon inspection by Smith Equipment. This is the sole and exclusive remedy of the purchaser and the sole and exclusive liability of Smith Equipment, whether in

contract, in tort, under any warranty, in negligence or otherwise. Smith Equipment shall not be liable under any circumstances for any incidental, consequential, special, indirect or other damages, or for loss of use, revenue or profit even if Smith Equipment has been advised of the possibility of such damages. The warranty and remedies provided herein shall not apply if a product is damaged by accident, abuse or misuse, if a product is modified in any way except by personnel authorized by Smith Equipment, or if anything except genuine Smith Equipment replacement parts, tips, and consumables are used with the equipment.

Premium Quality Pressure Gauges

Smith Equipment Replacement Pressure Gauges are manufactured in accordance with Smith's rigid quality standards. All gauges feature precision watch type movements for optimum accuracy. Gauges are supplied in convenient "Slider-Pak" packaging for attractive display, allows removal and inspection of product without damage to packaging.

FEATURE BENEFITS

- 2" (51mm) and 2-1/2" (64mm) Gauges U.L. Listed.
- Watch-type precision movement for optimum accuracy.
- One-piece polycarbonate crystal is shatter resistant and has protective lip to prevent damage to face.
- Preferred design with 1/4 turn crystal ring.
- High visibility cupped steel face.
- PSI/Bar pressure gauges and CFH/LPM flowgauges



2" Gauge
(51mm)
Part No. GA134-03



2-1/2" Brass Gauge
(64mm)
Part No. GA033-07

Gauges

2" (51mm) Black Case Gauges

Part No.	Description	Pressure Calibration
GA136-03	CFH / LPM	50 CFH / 25 LPM
GA134-03	PSI / BAR (Red Zone)	30 PSI / 2 Bar
GA141-03	PSI / BAR	30 PSI / 2 Bar
GA135-03	PSI / BAR	60 PSI / 4 Bar
GA143-03	PSI / BAR	100 PSI / 7 Bar
GA137-03	PSI / BAR	150 PSI / 10 Bar
GA140-03	PSI / BAR	200 PSI / 14 Bar
GA138-03	PSI / BAR	400 PSI / 28 Bar
GA142-03	PSI / BAR	600 PSI / 40 Bar
GA144-03	PSI / BAR	1500 PSI / 100 Bar
GA139-03	PSI / BAR	4000 PSI / 280 Bar
GA145-03	PSI / BAR	6000 PSI / 400 Bar

NOTE: All 2" (51mm) gauges have 1/4" (6mm) NPT bottom stem.

2-1/2" (64mm) Brass Case Gauges

Part No.	Description	Pressure Calibration
GA026-07	PSI / BAR (Red Zone)	30 PSI / 2 Bar
GA029-07	PSI / BAR	60 PSI / 4 Bar
GA033-07	PSI / BAR	200 PSI / 14 Bar
GA037-07	PSI / BAR	400 PSI / 28 Bar
GA043-07	PSI / BAR	4000 PSI / 280 Bar

NOTE: All 2-1/2" (64mm) gauges have 1/4" (6mm) NPT bottom stem.

