

# 601

MODEL



## ECONOMICAL

MODEL SHOWN:  
601-15-520 A

### DESCRIPTION

This single-stage regulator is designed to be compact and economical, but with features typically available in more expensive regulators. It is used where weight, cost and size are factors.

### DETAILS

**Capacity:** Light duty

**C<sub>v</sub>:** 0.08

**Gauges:** 50mm ABS plastic

**Pressure Regulation:**  
0.4 PSIG/100 PSIG

**Seat:** One-piece encapsulated seat design with internal filter and PTFE Teflon® seat

**Certifications:** UL® listed/CGA E-4

**Featured In:** Expert® series kits, air fuel equipment kits, Port-A-Torch®

**Weight:** 1.39 lbs. /0.63 kg.



Additional Technical Information: PG. 171

PART NO.	MODEL NO.	GAS	MAX. INLET PSIG	DELIVERY PRESSURE RANGE PSIG	DELIVERY PRESSURE GAUGE PSIG	SUPPLY PRESSURE GAUGE PSIG	INLET CONNECTION	OUTLET CONNECTION
3000295	601-15-200	ACETYLENE	400	0 - 15	30RZ	400	CGA 200	"B" 1/16" - 18 LH
3000407	601-15-200 A	ACETYLENE	400	0 - 15	30RZ	400	CGA 200	"A" 3/8" - 24 LH
3000408	601-15-520 A	ACETYLENE	400	0 - 15	30RZ	400	CGA 520	"A" 3/8" - 24 LH
3000411	601-15-520	ACETYLENE	400	0 - 15	30RZ	400	CGA 520	"B" 1/16" - 18 LH
3000331	601-15-510	ACETYLENE	400	0 - 15	30RZ	400	CGA 510	"B" 1/16" - 18 LH
3000332	601-15-300	ACETYLENE	400	0 - 15	30RZ	400	CGA 300	"B" 1/16" - 18 LH
3000409	601-50-510P	LPG*	400	0 - 50	60	400	CGA 510P	"B" 1/16" - 18 LH
3002317	601-50-600	LPG*	400	0 - 50	60	400	CGA 600	"B" 1/16" - 18 LH
3002318	601-50-600A	LPG*	400	0 - 50	60	400	CGA 600	"A" 3/8" - 24 LH
3000296	601-80-540	OXYGEN	3000	0 - 80	100	4000	CGA 540	"B" 1/16" - 18 RH
3000412	601-80-540 A	OXYGEN	3000	0 - 80	100	4000	CGA 540	"A" 3/8" - 24 RH

\*Regulator designed specifically for propane service can be used with any of the other welding grade liquid petroleum gases. NOT FOR USE WITH ACETYLENE.

# 601

MODEL



## HVAC PURGING REGULATOR

MODEL SHOWN:  
601-400-580

### DESCRIPTION

The model 601 is designed for applications where weight and size are critical factors. Used for HVAC purging, pressure testing and blanketing with nitrogen or other inert gases. Gauges feature rubber gauge guards for added protection in abusive conditions. Plastic knob for easy grip and precise adjustment. Maximum delivery pressure 400 or 800 PSIG.

### DETAILS

**Capacity:** Light/Medium Duty

**C<sub>v</sub>:** 0.17

**Gauges:** 50mm ABS plastic-psi/bar

**Pressure Regulation:**  
0.4 PSIG/100 PSIG

**Seat:** One-piece encapsulated seat design with internal filter and PTFE Teflon® Seat

**Body:** Brass

**Outlet:** 1/4" 45° Flare SAE

**Certifications:** CGA E-4

**Where Used:** HVAC purging, pressure testing and blanketing

**Weight:** 1.39 lbs./ 0.63 kg.

**Related Items:**

Gauge-Guard, CPR63332

P/N: 9003727



PART #	MODEL #	GAS	MAX. INLET PSIG	DELIVERY PRESSURE RANGE PSIG	DELIVERY PRESSURE GAUGE PSIG	SUPPLY PRESSURE GAUGE PSIG	INLET CONNECTION	OUTLET CONNECTION
3000648	601-400-580	Ar, He, N2	3000	0-400	600	4500	CGA 580	1/4" 45° flare SAE
3000649	601-800-580	Ar, He, N2	3000	0-800	1450	4500	CGA 580	1/4" 45° flare SAE

# 301

MODEL



## COMPACT

MODEL SHOWN:  
301-100-540

### DESCRIPTION

This single-stage regulator is designed to be compact, light weight and rugged. It provides accurate pressure regulation to 100 PSIG.

### DETAILS

**Capacity:** Light to medium duty

**C<sub>v</sub>:** 0.08

**Gauges:** 2" Steel dual scale

**Pressure Regulation:**  
0.4 PSIG/100 PSIG

**Seat:** One-piece encapsulated seat design with internal filter and PTFE Teflon® seat

**Certifications:**

UL® listed/CGA E-4

**Weight:** 2.2 lbs./0.99 kg.



Additional Technical Information: PG.171

PART NO.	MODEL NO.	GAS	MAX. INLET PSIG	DELIVERY PRESSURE RANGE PSIG	DELIVERY PRESSURE GAUGE PSIG	SUPPLY PRESSURE GAUGE PSIG	INLET CONNECTION	OUTLET CONNECTION
3000165	301-15-200MC	ACETYLENE	400	0 - 15	30RZ	400	CGA 200 MC	1/16" - 18 LH
3000160	301-15-300	ACETYLENE	400	0 - 15	30RZ	400	CGA 300	1/16" - 18 LH
3000161	301-15-510	ACETYLENE	400	0 - 15	30RZ	400	CGA 510	1/16" - 18 LH
3000166	301-15-520B	ACETYLENE	400	0 - 15	30RZ	400	CGA 520B	1/16" - 18 LH
3001862	301-50-510P	LPG*	400	0-50	30	400	CGA510	1/16" - 18 LH
3000162	301-100-540	OXYGEN	3000	0 - 100	150	4000	CGA 540	1/16" - 18 RH
3000187	301-100-580	Ar, He, N <sub>2</sub>	3000	0 - 100	150	4000	CGA 580	1/16" - 18 RH
3000192	301-100-320	CO <sub>2</sub>	3000	0 - 100	150	4000	CGA 320	1/16" - 18 RH

\*Regulator designed specifically for propane service can be used with any of the other welding grade liquid petroleum gases. NOT FOR USE WITH ACETYLENE.

# 25GX

MODEL



## BEST VALUE

MODEL SHOWN:  
25GX-145-540

### DESCRIPTION

The 25GX is designed to be the next generation workhorse of the Harris industrial regulator line. It features larger, easier to read gauges and an ergonomic adjusting knob that also shields the adjusting mechanism from contaminants.

### DETAILS

**Capacity:** Medium to heavy duty

**C<sub>v</sub>:** 0.17

**Gauges:** 2.5" Steel dual scale

**Pressure Regulation:** 0.2 PSIG/100 PSIG

**Seat:** One-piece encapsulated seat design with internal filter and PTFE Teflon® seat

**Certification:** UL® listed/CGA E-4

**Featured In:** Steelworker® Classic & V-Series® kits

**Weight:** 2.9 lbs./1.32 kg.

**Related Equipment:**

Steel gauge guards

Green (Oxygen) P/N: 4300239

Red (Fuel) P/N: 4300238

See P. 160



Additional Technical Information: PG. 172

PART NO.	MODEL NO.	GAS	MAX. INLET PSIG	DELIVERY PRESSURE RANGE PSIG	DELIVERY PRESSURE GAUGE PSIG	SUPPLY PRESSURE GAUGE PSIG	INLET CONNECTION	OUTLET CONNECTION
3000350	25GX-15-300	ACETYLENE	500	0 - 15	30 RZ	400	CGA 300	1/16" - 18 LH
3000380	25GX-15-510	ACETYLENE	500	0 - 15	30 RZ	400	CGA 510	1/16" - 18 LH
3000450	25GX-50-510P	LPG*	500	0 - 50	60	400	CGA 510P	1/16" - 18 LH
3000485	25GX-15-510P	LPG*	500	0 - 15	60	400	CGA 510P	1/16" - 18 LH
3001938	25GX-50-350	H <sub>2</sub> Methane	3000	0-50	60	4000	CGA 350	1/16" - 18 LH
3000554	25GX-50-540	OXYGEN	3000	0-50	60	4000	CGA 540	1/16" - 18 LH
3000510	25GX-145-540	OXYGEN	3000	0 - 145	200	4000	CGA 540	1/16" - 18 RH
3000540	25GX-145-580	Ar, He, N <sub>2</sub>	3000	0 - 145	200	4000	CGA 580	1/16" - 18 RH **
3000550	25GX-145-590	INDUS. AIR	3000	0 - 145	200	4000	CGA 590	1/4" - NPT (M)
3000599	25GX-145-320	CO <sub>2</sub>	3000	0 - 145	200	4000	CGA 320	5/8" - 18 (RH)
3000806	25GX-200-580	Ar, He, N <sub>2</sub>	3000	0 - 200	400	4000	CGA 580	1/16" - 18 RH **

\*Regulators designed for propane service can be used with any other LPG fuel. NOT FOR USE WITH ACETYLENE.

\*\*Supplied with 1/8"-18 adaptor P/N: 9000002 \*\*\*Packaged in clamshell  
3000485 has 30 PSIG plain face gauge



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Orders: 1.800.733.4043

REGULATORS

# 25GX

MODEL

## HVAC PURGING

MODEL SHOWN:  
25GX-500-580

### DESCRIPTION

This single-stage nitrogen purging regulator is designed for performance and economy, it is with features typically available in more expensive regulators. Specifically designed for HVAC and other nitrogen pressure testing and blanketing applications. Both the 25GX-250 and 25GX-500 feature a "T" bar for easier adjustment at high pressures.

### DETAILS

**Capacity:** Medium to heavy duty

**C<sub>v</sub>:** 0.17

**Gauges:** 2.5" Steel dual scale

**Pressure Regulation:**  
0.2 PSIG/100 PSIG

**Seat:** One-piece encapsulated seat design with internal filter and PTFE Teflon® seat

**Certifications:** CGA E-4

**Where Used:** HVAC purging, pressure testing and blanketing

**Weight:** 3.2 lbs./1.45 kg.

#### Related Equipment:

Steel gauge guards  
Green (Oxygen) P/N: 4300239  
Red (Fuel) P/N: 4300238  
See P. 158



Additional Technical Information: PG. 173

PART NO.	MODEL NO.	GAS	MAX. INLET PSIG	DELIVERY PRESSURE RANGE PSIG	SUPPLY PRESSURE GAUGE PSIG	INLET CONNECTION	OUTLET CONNECTION
3000616	25GX-250-580	Ar, He, N <sub>2</sub>	3000	0 - 250	4000	CGA 580	¼" 45° Flare SAE
3000606	25GX-500-580	Ar, He, N <sub>2</sub>	3000	0 - 500	4000	CGA 580	¼" 45° Flare SAE

# 801

MODEL

## COMPACT GENERAL PURPOSE

MODEL SHOWN:  
801-145-540

### DESCRIPTION

The model 801 is designed to be a medium duty regulator, perfect for most industrial cutting and welding applications. It features 2" gauges that are easy to read and an ergonomic adjusting knob for precise operation and a longer service life.

### DETAILS

**Capacity:** Medium duty

**C<sub>v</sub>:** 0.17

**Gauges:** 2" Steel dual scale

**Seat:** One-piece encapsulated seat design with internal filter and PTFE Teflon® Seat

**Body:** Brass

**Featured In:** Ironworker HMD & VMD series outfits

**Certifications:** CGA E-4

**Where Used:** Industrial cutting and welding applications

**Weight:** 2.32 lbs. / 1.05 kg.



PART NO.	MODEL NO.	GAS	MAX. INLET PSIG	DELIVERY PRESSURE RANGE PSIG	DELIVERY PRESSURE GAUGE PSIG	SUPPLY PRESSURE GAUGE PSIG	INLET CONNECTION	OUTLET CONNECTION
3002195	801-15-300	ACETYLENE	500	0 - 15	30 RZ	400	CGA 300	⅜" - 18 LH
3002193	801-15-510	ACETYLENE	500	0 - 15	30 RZ	400	CGA 510	⅜" - 18 LH
3002194	801-125-540	OXYGEN	3000	0 - 125	150	4000	CGA 540	⅜" - 18 RH

# 425

MODEL



## BEST FEATURES

MODEL SHOWN:  
425-125-540

### DESCRIPTION

Model 425 is a premium, single-stage, industrial regulator that is an ideal choice for most industrial applications. This regulator incorporates a number of Harris features designed to make it a rugged, long-lasting performer, including an exclusive tamper-proof, self-reseating internal HP safety valve and a neoprene diaphragm. The 425 is also available in a multitude of pressure ranges and for all standard industry gases.

### DETAILS

**Capacity:** Heavy duty

**C<sub>v</sub>:** 0.17

**Gauges:** 2.5" brass

**Pressure Regulation:**  
0.2 PSIG/100 PSIG

**Seat:** One-piece encapsulated seat design with internal filter and PTFE Teflon® seat

**Certifications:** UL® listed/CGA E-4

**Featured In:**  
Pipeliner® Classic kits

**Weight:** 3.7 lbs./1.67 kg.

**Related Equipment:**  
Steel gauge guards  
Green (Oxygen) P/N: 4300239  
Red (Fuel) P/N: 4300238  
See P. 160



Additional Technical Information: PG. 173

PART NO.	MODEL NO.	GAS	MAX. INLET PSIG	DELIVERY PRESSURE RANGE PSIG	DELIVERY PRESSURE GAUGE PSIG	SUPPLY PRESSURE GAUGE PSIG	INLET CONNECTION	OUTLET CONNECTION
3000816	425-15-300	ACETYLENE	500	0 - 15	30RZ	400	CGA 300	1/16" - 18 LH
3000815	425-15-510	ACETYLENE	500	0 - 15	30RZ	400	CGA 510	1/16" - 18 LH
3000713	425-50-510P	LPG*	3000	0 - 50	60	400	CGA 510P	1/16" - 18 LH
3000784	425-50A-350	H <sub>2</sub> , METHANE	3000	0 - 50	60	4000	CGA 350	1/16" - 18 LH
3000794	425-125A-350	H <sub>2</sub> , METHANE	3000	0 - 125	200	4000	CGA 350	1/16" - 18 LH
3000787	425-125-350	ETHYLENE, METHANE	3000	0 - 125	200	4000	CGA 350	1/16" - 18 LH
3000795	425-50-540	OXYGEN	3000	0 - 50	60	4000	CGA 540	1/16" - 18 RH
3000714	425-125-540	OXYGEN	3000	0 - 125	200	4000	CGA 540	1/16" - 18 RH
3000796	425-200-540	OXYGEN	3000	0 - 200	400	4000	CGA 540	1/16" - 18 RH
3000762	425-125-346	MEDICAL AIR	3000	0 - 125	200	4000	CGA 346	1/16" - 18 RH
3000764	425-200-346	MEDICAL AIR	3000	0 - 200	400	4000	CGA 346	1/16" - 18 RH
3000821	425-125-590	INDUSTRIAL AIR	3000	0 - 125	200	4000	CGA 590	1/4" - NPT (M)
3000837	425-15-580	Ar, He, N <sub>2</sub>	3000	0 - 15	30	4000	CGA 580	1/16" - 18 RH
3000843	425-50-580	Ar, He, N <sub>2</sub>	3000	0 - 50	50	4000	CGA 580	1/16" - 18 RH
3000767	425-125-580	Ar, He, N <sub>2</sub>	3000	0 - 125	200	4000	CGA 580	1/16" - 18 RH
3000765	425-125A-580	Ar, He, N <sub>2</sub> **	3000	0 - 125	200	4000	CGA 580	1/16" - 18 RH
3000773	425-200-580	Ar, He, N <sub>2</sub>	3000	0 - 200	400	4000	CGA 580	1/16" - 18 RH
3000848	425-15-555	BUTANE	3000	0 - 15	30	4000	CGA 555	1/16" - 18 RH
3000775	425-125-320	CO <sub>2</sub>	3000	0 - 125	200	4000	CGA 320	1/16" - 18 RH

\*Regulators designed specifically for propane service can be used with any of the other welding grade liquid petroleum gases. NOT FOR USE WITH ACETYLENE.

\*\*Models with anti-vibrator "A" for He and H<sub>2</sub> applications feature the standard Harris internal safety.

## PRO INFO

## CHOOSE THE RIGHT HARRIS FLOW CONTROL DEVICES

The most common use for gas flow control devices in the industrial gas market is to control shielding gases for GTAW (TIG) and GMAW (MIG) welding. No other manufacturer in the industry offers a more complete line of shielding gas equipment than Harris. Harris offers many designs and models of flow meters, flow meter regulators and flow gauge regulators for all gas supply systems, high-pressure cylinders, liquid cylinders and pipelines.

**CONTACT YOUR HARRIS REPRESENTATIVE FOR THE FEATURES AND BENEFITS THAT BEST FIT YOUR APPLICATION(S).**



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REGULATORS

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# 45 MODEL

## HEAVY DUTY REGULATORS

MODEL SHOWN:  
45-145-540

### DESCRIPTION

The Model 45 single stage regulator is available with a neoprene diaphragm for extra safety, longer life, and greater dependability. Model 45 regulators have internal, tamper-proof high pressure safeties.

### DETAILS

**Capacity:** Heavy duty

**C<sub>v</sub>:** 0.17

**Gauges:** 2.5" brass

**Seat:** One-piece encapsulated seat design with PTFE Teflon® seat

**Pressure Regulation:**  
.2 PSI/100 PSIG

**Certification:** CGA E-4

**Weight:** 3.2 lbs./ 1.45 kg.

**Related Equipment:**

Steel gauge guards

Green (Oxygen) P/N: 4300239

Red (Fuel) P/N: 4300238

See P. 160



Additional Technical Information: PG. 174

PART NO.	Model NO.	GAS	MAX. INLET PSIG	DELIVERY PRESSURE RANGE PSIG	SUPPLY PRESSURE GAUGE PSIG	INLET CONNECTION	OUTLET CONNECTION
3001781	45-145-540	OXYGEN	3000	0 - 145	4000	CGA 540	3/16" - 18RH
3001782	45-15-510	ACETYLENE	500	0 - 15	400	CGA 510	3/16" - 18LH
3001783	45-15-300	ACETYLENE	500	0 - 15	400	CGA 300	3/16" - 18LH

## PRO INFO

### THE TRUE MEASURE OF A REGULATOR

#### Performance = Pressure Regulation

There is a reason they are called "pressure" regulators. Regulators take unusable high pressure, for example, from a cylinder and break it down into a lower usable pressure. This is the true function of a regulator. How well a regulator maintains the lower pressure, despite the changes in pressure upstream, is the true measure of a regulator. The more constant the set pressure is held, the better the regulator. The Harris Model 450 offers superior pressure regulation over competitive models.

#### Pressure Comparison

Both of the competitive models, delivery pressure rises twice as fast as the Harris Model 450. This is important because the Harris Model 450 user will get a better, more constant delivery pressure, as the cylinder empties. Additionally, the user won't have to adjust the regulator as much, meaning more time spent working.

Calculations were performed per the Compressed Gas Association (CGA) E-4 standard. It is the most up-to-date and comprehensive regulator standard in the world today for the welding industry. It defines product safety and production test requirements and it defines performance characteristics required to meet field applications.

Model Number	Pressure Rise PSI / 100PSI	Change In Delivery Pressure	Final Outlet Pressure	Percent Change
Harris Model 450	0.30	+ 7.65	37.65	25%
Competitive Model 1a	0.56	+ 14.28	44.28	47%
Competitive Model 1b	0.70	+ 17.85	47.85	60%

# 450

MODEL



## STAINLESS STEEL DIAPHRAGM

MODEL SHOWN:  
450-125-540

### DESCRIPTION

The Model 450 is an economically priced industrial duty regulator, but with premium features found only in high priced regulators. The 450 has a stainless steel diaphragm and a Harris exclusive internal tamper-proof self-reseating safety.

### DETAILS

**Capacity:** Heavy duty  
**C<sub>v</sub>:** 0.17  
**Gauges:** 2.5" brass  
**Pressure Regulation:**  
 0.3 PSIG/100 PSIG

**Seat:** One-piece encapsulated seat design with internal filter and PTFE Teflon® seat  
**Certifications:** UL® listed/CGA E-4  
**Weight:** 4.6 lbs./2.09 kg.



Additional Technical Information: PG. 174

PART NO.	MODEL NO.	GAS	MAX. INLET PSIG	DELIVERY PRESSURE RANGE PSIG	DELIVERY PRESSURE GAUGE PSIG	SUPPLY PRESSURE GAUGE PSIG	INLET CONNECTION	OUTLET CONNECTION
3002493	450-15-300	ACETYLENE	500	0 - 15	30RZ	400	CGA 300	1/16" - 18 LH
3002494	450-15-510	ACETYLENE	500	0 - 15	30RZ	400	CGA 510	1/16" - 18 LH
3002495	450-50-510P	LPG*	500	0 - 50	100	400	CGA 510P	1/16" - 18 LH
3002496	450-50-540	OXYGEN	3000	0 - 50	100	4000	CGA 540	1/16" - 18 RH
3002497	450-125-540	OXYGEN	3000	0 - 125	200	4000	CGA 540	1/16" - 18 RH
3002499	450-200-540	OXYGEN	3000	0 - 200	400	4000	CGA 540	1/16" - 18 RH
3002498	450-125-580	AR, HE, N <sub>2</sub>	3000	0 - 125	200	4000	CGA 580	5/16" - 18 RH

\*Regulator designed specifically for propane service can be used with any of the other welding grade liquid petroleum gases. NOT FOR USE WITH ACETYLENE.

# 45S

MODEL



## STAINLESS STEEL DIAPHRAGM

MODEL SHOWN:  
45S-145-540

### DESCRIPTION

The Model 45S single stage regulator has a stainless steel diaphragm for extra safety, longer life, and greater dependability. Harris 45S regulators have a Harris exclusive internal, tamper-proof, self-seating safety.

### DETAILS

**Capacity:** Heavy duty  
**C<sub>v</sub>:** 0.17  
**Gauges:** 2.5" brass  
**Seat:** One-piece encapsulated seat design with internal filter and PTFE Teflon® seat  
**Pressure Regulation:**  
 .3 PSI/ 100 PSIG  
**Certifications:** CGA E-4

**Featured In:** Ironworker® kits  
**Weight:** 3.2 lbs./ 1.45 kg.  
**Related Equipment:**  
 Steel gauge guards  
 Green (Oxygen) P/N: 4300239  
 Red (Fuel) P/N: 4300238  
 See P. 160



Additional Technical Information: PG. 175

PART NO.	Model NO.	GAS	MAX. INLET PSIG	DELIVERY PRESSURE RANGE PSIG	SUPPLY PRESSURE GAUGE PSIG	INLET CONNECTION	OUTLET CONNECTION
3001776	45S-145-540	OXYGEN	3000	0 - 145	4000	CGA 540	1/16" - 18RH
3001777	45S-15-510	ACETYLENE	500	0 - 15	400	CGA 510	1/16" - 18LH
3001778	45S-15-300	ACETYLENE	500	0 - 15	400	CGA 300	1/16" - 18LH



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Orders: 1.800.733.4043

# 29

MODEL

## GAUGELESS

MODEL SHOWN:  
29-15C-300

### DESCRIPTION

The Model 29 gaugeless regulator is specifically designed for use in installations where rough handling of gas apparatus is commonplace. The color coded cylinder contents indicator and the delivery pressure calibration on the bonnet are easy to read.

### DETAILS

**Capacity:** Heavy duty

**C<sub>v</sub>:** 0.17

**Gauges:** N/A

**Pressure Regulation:**  
0.2 PSIG/100 PSIG

**Seat:** One-piece encapsulated seat design with internal filter and PTFE Teflon® seat

**Certifications:** UL® listed/CGA E-4

**Weight:** 2.7 lbs./1.22 kg.



Additional Technical Information: PG. 173

PART NO.	MODEL NO.	GAS	MAX. INLET PSIG	DELIVERY PRESSURE RANGE PSIG	DELIVERY PRESSURE GAUGE PSIG	SUPPLY PRESSURE GAUGE PSIG	INLET CONNECTION	OUTLET CONNECTION
3600260	29-15C-510	ACETYLENE	500	0 - 15	-	-	CGA 510	1/8" - 18 LH
3600250	29-15C-300	ACETYLENE	500	0 - 15	-	-	CGA 300	1/8" - 18 LH
3600320	29-50C-510P	LPG*	500	0 - 50	-	-	CGA 510P	1/8" - 18 LH
3600340	29-100C-540	OXYGEN	3000	0 - 100	-	-	CGA 540	1/8" - 18 RH
3600200	29-100C-540SG	OXYGEN	3000	0 - 100	-	-	CGA 540SG	1/8" - 18 RH
3600345	29-100C-580	Ar, He, N <sub>2</sub>	3000	0 - 100	-	-	CGA 580	1/8" - 18 RH

\*Regulator designed specifically for propane service can be used with any of the other welding grade liquid petroleum gases. NOT FOR USE WITH ACETYLENE.

# 330

MODEL

## LIQUID CYLINDER GASEOUS WITHDRAWAL

MODEL SHOWN:  
330-125-580

### DESCRIPTION

The Model 330 regulator allows for gaseous withdrawal from oxygen, carbon dioxide, argon and/or nitrogen liquid cylinders. It has a stainless steel diaphragm and a tamper-proof, self-reseating internal HP safety valve. Its unique design permits inlet pressures of up to 3000 PSIG for use on high pressure cylinders. The model 330 has an auxiliary plugged low pressure port.

### DETAILS

**Capacity:** Heavy duty

**C<sub>v</sub>:** 0.37

**Gauges:** 2" Brass

**Pressure Regulation:**  
0.2 PSIG/100 PSIG

**Seat:** One-piece encapsulated seat design with internal filter and PTFE Teflon® seat

**Certifications:** CGA E-4

**Where Used:** Cryogenic cylinders for vapor withdrawal

**Weight:** 4.3 lbs./1.95 kg.



Additional Technical Information: PG. 173

PART NO.	MODEL NO.	GAS	MAX. INLET PSIG	DELIVERY PRESSURE RANGE PSIG	DELIVERY PRESSURE GAUGE PSIG	SUPPLY PRESSURE GAUGE PSIG	INLET CONNECTION	OUTLET CONNECTION
3001090	330-125-540	OXYGEN	3000	0 - 125	200	-	CGA 540	1/8" - 18
3001093	330-350-540	OXYGEN	3000	0 - 350	500	-	CGA 540	1/8" - 18
3001097	330-500-540	OXYGEN	3000	0 - 500	600	-	CGA 540	1/4" - NPT
3001091	330-125-580	Ar, NITROGEN	3000	0 - 125	200	-	CGA 580	1/8" - 18
3001094	330-350-580	Ar, NITROGEN	3000	0 - 350	500	-	CGA 580	1/8" - 18
3001098	330-500-580	Ar, NITROGEN	3000	0 - 500	600	-	CGA 580	1/4" - NPT
3001092	330-125-320	CO <sub>2</sub>	3000	0 - 125	200	-	CGA 320	1/8" - 18
3001095	330-350-320	CO <sub>2</sub>	3000	0 - 350	500	-	CGA 320	1/8" - 18
3001099	330-500-320	CO <sub>2</sub>	3000	0 - 500	600	-	CGA 320	1/4" - NPT

# HP750 MODEL



## CONSTANT PRESSURE/HIGH FLOW

MODEL SHOWN:  
HP750-500-3000

### DESCRIPTION

The Model HP750 series regulator is a high pressure, high flow regulator system. The key to the performance of this regulator is the servo-dome load technology. The servo-dome load feature allows the regulator to supply high flow rates with straight line pressure regulation. Typical applications include high flow laser assist gases, pressure transfer, blanketing and high flow manifolds.



### DETAILS

**Capacity:** High flow/constant pressure

**C<sub>v</sub>:** 0.55 for 3000 PSIG inlet models  
0.40 for 5500 PSIG inlet models

**Gauges:** 2.5" Brass - psi/bar

**Pressure Regulation:**

0.3 PSIG/100 PSIG on 5500 inlet models  
0.5 PSIG/100 PSIG on 3000 PSIG inlet models

**Bushing:** ½" MNPT x ¼" NPT (F) P/N:9005806

**Seat:** One-piece encapsulated seat design with internal filter and PTFE Teflon® seat for 3000 PSIG models CTFE (Kel-F®) for 5500 PSIG Models

**Certifications:** CGA E-4

**Weight:** 8.5 lbs./3.85 kg.

**Related Options:** Panel Mount Nut: P/N: 9100887

Adapters: CGA 580 P/N: 9103616, CGA 540 P/N:9103615,  
CGA 680 P/N: 9103617 *Additional Technical Information: PG. 176*

PART NO.	MODEL NO.	GAS	MAX. INLET PSIG	DELIVERY PRESSURE RANGE PSIG	DELIVERY PRESSURE GAUGE PSIG	SUPPLY PRESSURE GAUGE PSIG	INLET CONNECTION	OUTLET CONNECTION
3000865	HP750-250-3000	NON CORROSIVE	3000	0 - 250	400	4000	½" NPT (F)	½" NPT (F)
3000860	HP750-500-3000	NON CORROSIVE	3000	0 - 500	600	4000	½" NPT (F)	½" NPT (F)
3000866	HP750-1000-3000	NON CORROSIVE	3000	0 - 1000	2000	4000	½" NPT (F)	½" NPT (F)
3000867	HP750-250-5500	NON CORROSIVE	5500	0 - 250	400	6000	½" NPT (F)	½" NPT (F)
3000868	HP750-500-5500	NON CORROSIVE	5500	0 - 500	600	6000	½" NPT (F)	½" NPT (F)
3000869	HP750-1000-5500	NON CORROSIVE	5500	0 - 1000	2000	6000	½" NPT (F)	½" NPT (F)

## PRO INFO

## SERVO-DOME LOAD TECHNOLOGY

The servo-dome load feature automatically adjusts the regulator as the cylinder pressure declines which helps maintain a steady outlet pressure and flow rate without user adjustment. Unlike competitive models, the Harris Model 750 is a rugged one piece unit with no external tubing.

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# 8700

MODEL



## ULTRA HIGH PRESSURE UP TO 7500 PSI INLET

MODEL SHOWN:  
8700-2500-350

### DESCRIPTION

The Model 8700 is a single-stage, high pressure regulator designed to operate on high pressure cylinders up to 7500 PSIG. Typical applications include high pressure testing, charging accumulators and pressurizing aircraft struts. Models for inert gas and air are self-relieving for safety.

### DETAILS

**Capacity:** Ultra high pressure  
**C<sub>v</sub>:** 0.08  
**Gauges:** 2.5" Brass psi/bar  
**Pressure Regulation:**  
 3.3 PSIG/100 PSIG

**Seat:** One-piece encapsulated seat design with internal filter and CTFE (Kel F®) seat  
**Certifications:** CGA E-4

**Related Items:**  
 Panel mount nut P/N: 9100887  
**Weight:** 5.8 lbs./2.63 kg.



Additional Technical Information: PG. 177

PART NO.	MODEL NO.	GAS	MAX. INLET PSIG	DELIVERY PRESSURE RANGE PSIG	DELIVERY PRESSURE GAUGE PSIG	SUPPLY PRESSURE GAUGE PSIG	INLET CONNECTION	OUTLET CONNECTION
3200306	8700-1500-540	OXYGEN	3000	0 - 1500	3000	4000	CGA 540	¼" - SS TUBE FITTING
3200307	8700-2500-540	OXYGEN	3000	0 - 2500	4000	4000	CGA 540	¼" - SS TUBE FITTING
3200308	8700-1500-540SG	OXYGEN	3000	0 - 1500	3000	4000	CGA 540	¼" - SS TUBE FITTING
3200309	8700-2500-540SG	OXYGEN	3000	0 - 2500	4000	4000	CGA 540	¼" - SS TUBE FITTING
3200273	8700-800-590*	INDUST. AIR	3000	0 - 800	1000	4000	CGA 590	¼" - SS TUBE FITTING
3200304	8700-1500-590*	INDUST. AIR	3000	0 - 1500	3000	4000	CGA 590	¼" - SS TUBE FITTING
3200305	8700-2500-590*	INDUST. AIR	3000	0 - 2500	4000	4000	CGA 590	¼" - SS TUBE FITTING
3200270	8700-800-346*	MEDICAL AIR	3000	0 - 800	1000	4000	CGA 346	¼" - SS TUBE FITTING
3200310	8700-1500-346*	MEDICAL AIR	3000	0 - 1500	3000	4000	CGA 346	¼" - SS TUBE FITTING
3200311	8700-2500-346*	MEDICAL AIR	3000	0 - 2500	3000	4000	CGA 346	¼" - SS TUBE FITTING
3200312	8700-1500-347*	MEDICAL AIR	5500	0 - 1500	3000	6000	CGA 347	¼" - SS TUBE FITTING
3200314	8700-3000-347*	MEDICAL AIR	5500	0 - 3000	4000	6000	CGA 347	¼" - SS TUBE FITTING
3200315	8700-4500-347*	MEDICAL AIR	5500	0 - 4500	6000	6000	CGA 347	¼" - SS TUBE FITTING
3200320	8700-1500-677*	Ar, He, N <sub>2</sub>	7500	0 - 1500	3000	10000	CGA 677	¼" - SS TUBE FITTING
3200321	8700-3000-677*	Ar, He, N <sub>2</sub>	7500	0 - 3000	4000	10000	CGA 677	¼" - SS TUBE FITTING
3200322	8700-4500-677*	Ar, He, N <sub>2</sub>	7500	0 - 4500	6000	10000	CGA 677	¼" - SS TUBE FITTING
3200323	8700-6000-677*	Ar, He, N <sub>2</sub>	7500	0 - 6000	10000	10000	CGA 677	¼" - SS TUBE FITTING
3200324	8700-1500-680*	Ar, He, N <sub>2</sub>	5500	0 - 1500	3000	6000	CGA 680	¼" - SS TUBE FITTING
3200326	8700-3000-680*	Ar, He, N <sub>2</sub>	5500	0 - 3000	4000	6000	CGA 680	¼" - SS TUBE FITTING
3200327	8700-4500-680*	Ar, He, N <sub>2</sub>	5500	0 - 4500	6000	6000	CGA 680	¼" - SS TUBE FITTING
3200272	8700-800-580*	Ar, He, N <sub>2</sub>	3000	0 - 800	1000	4000	CGA 580	¼" - SS TUBE FITTING
3200300	8700-1500-580*	Ar, He, N <sub>2</sub>	3000	0 - 1500	3000	4000	CGA 580	¼" - SS TUBE FITTING
3200301	8700-2500-580*	Ar, He, N <sub>2</sub>	3000	0 - 2500	4000	4000	CGA 580	¼" - SS TUBE FITTING
3200271	8700-800-350	H <sub>2</sub> , METHANE	3000	0 - 800	1000	4000	CGA350	¼" - SS TUBE FITTING
3200302	8700-1500-350	H <sub>2</sub> , METHANE	3000	0 - 1500	3000	4000	CGA 350	¼" - SS TUBE FITTING
3200303	8700-2500-350	H <sub>2</sub> , METHANE	3000	0 - 2500	4000	4000	CGA 350	¼" - SS TUBE FITTING
3200316	8700-1500-695	H <sub>2</sub> , METHANE	5500	0 - 1500	3000	6000	CGA 695	¼" - SS TUBE FITTING
3200318	8700-3000-695	H <sub>2</sub> , METHANE	5500	0 - 3000	4000	6000	CGA 695	¼" - SS TUBE FITTING
3200319	8700-4500-695	H <sub>2</sub> , METHANE	5500	0 - 4500	6000	6000	CGA 695	¼" - SS TUBE FITTING

\*Self venting for safety and ease of adjustment  
 SG – Surge Guard – for Safety with Oxygen

# 3500

MODEL



## HIGH PRESSURE/HIGH FLOW

MODEL SHOWN:  
3500-125-540

### DESCRIPTION

The Model 3500 is specifically designed to provide high gas flows from cylinders and to supply manifold gas systems. It is also ideal for special high flow cylinder applications such as heavy cutting and heating. All models offer dual port outlets. All models have a neoprene diaphragm.

### DETAILS

**Capacity:** High pressure, high flow

**C<sub>v</sub>:** 0.55 and 0.4

**Gauges:** 2.5" Brass

**Pressure Regulation:**

1.6 PSIG/100 PSIG on 0.55

C<sub>v</sub> models & 0.9 PSIG/100 PSIG on 0.4 C<sub>v</sub> models

**Seat:** One-piece encapsulated seat design with internal filter and CTFE (Kel F<sup>®</sup>) seat

**Certifications:** CGA E-4

**Related Items:**

1/4" plug P/N: 9000306

3/8" plug P/N: 9000373

**Weight:** 4.6 lbs./2.09 kg.



Additional Technical Information: PG. 178

PART NO.	MODEL NO.	GAS	MAX. INLET PSIG	DELIVERY PRESSURE RANGE PSIG	DELIVERY PRESSURE GAUGE PSIG	SUPPLY PRESSURE GAUGE PSIG	INLET CONNECTION	OUTLET CONNECTION
3003504	3500-15-510	ACETYLENE	500	0 - 15	30	400	CGA 510	1/16" - 18 LH
3003505	3500-15-300	ACETYLENE	500	0 - 15	30	400	CGA 300	1/16" - 18 LH
3003514	3500-50-510P	LPG*	500	0 - 50	100	400	CGA 510P	1/16" - 18 LH
3003503	3500-125-350	H <sub>2</sub> , METHANE	3000	0 - 125	200	4000	CGA 350	1/16" - 18 LH
3003509	3500-125-695	H <sub>2</sub> , METHANE	5500	0 - 125	200	6000	CGA 695	1/16" - 18 LH
3003513	3500-200-350	H <sub>2</sub> , METHANE	3000	0 - 200	400	4000	CGA 350	1/16" - 18 LH
3003518	3500-200-695	H <sub>2</sub> , METHANE	5500	0 - 200	400	6000	CGA 695	1/16" - 18 LH
3003500	3500-125-540	OXYGEN	3000	0 - 125	200	4000	CGA 540	1/16" - 18 RH
3003510	3500-200-540	OXYGEN	3000	0 - 200	400	4000	CGA 540	1/16" - 18 RH
3003502	3500-125-346	AIR	3000	0 - 125	200	4000	CGA 346	1/16" - 18 RH
3003508	3500-125-347	AIR	5500	0 - 125	200	6000	CGA 347	1/16" - 18 RH
3003512	3500-200-346	AIR	3000	0 - 200	400	4000	CGA 346	1/16" - 18 RH
3003517	3500-200-347	AIR	5500	0 - 200	400	6000	CGA 347	1/16" - 18 RH
3003501	3500-125-580	Ar, He, N <sub>2</sub>	3000	0 - 125	200	4000	CGA 580	5/8" - 18 RH
3003507	3500-125-680	Ar, He, N <sub>2</sub>	5500	0 - 125	200	6000	CGA 680	5/8" - 18 RH
3003511	3500-200-580	Ar, He, N <sub>2</sub>	3000	0 - 200	400	4000	CGA 580	5/8" - 18 RH
3003516	3500-200-680	Ar, He, N <sub>2</sub>	5500	0 - 200	400	6000	CGA 680	5/8" - 18 RH
3003540	3500-400-580	Ar, He, N <sub>2</sub>	3000	0 - 400	500	4000	CGA 580	3/8" - NPT (M)
3003541	3500-600-580	Ar, He, N <sub>2</sub>	3000	0 - 600	1000	4000	CGA 580	3/8" - NPT (M)

\*Regulators designed specifically for propane service can be used with any of the other welding grade liquid petroleum gases. NOT FOR USE WITH ACETYLENE.

\*\*All 3500 series have auxiliary ports. Those with 1/16" "outlet connections" have 3/8" auxiliary ports. Those with 1/16" or 5/16" connections have 3/8" auxiliary connections.



### DESCRIPTION

The Model 3500 is ideal for wheel guns used in NASCAR<sup>®</sup>, IRL<sup>®</sup> and CART<sup>®</sup> racing. In addition, our Model 3500-600-580 is especially designed for integral pit jack systems common in IRL<sup>®</sup> and CART<sup>®</sup> vehicles. Both models feature a 1/4" NPT(F) auxiliary delivery port.

MODEL SHOWN:  
3500-600-580



PART NO.	MODEL NO.	GAS	MAX. INLET PSIG	DELIVERY PRESSURE RANGE PSIG	DELIVERY PRESSURE GAUGE PSIG	SUPPLY PRESSURE GAUGE PSIG	INLET CONNECTION	OUTLET CONNECTION
3003538	3500-400-580	Ar, He, N <sub>2</sub>	3000	0-400	500	4000	CGA 580	3/8" NPT(M)
3003539	3500-600-580	Ar, He, N <sub>2</sub>	3000	0-600	1000	4000	CGA 580	3/8" NPT(M)



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REGULATORS

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# 3510

MODEL



## HIGH FLOW MANIFOLD

MODEL SHOWN:  
3510-200-RH

### DESCRIPTION

The Model 3510 is a high flow manifold regulator. It is equipped with inlet and outlet connections required on Harris manifold systems. The body ports are 1/2" NPT for direct mounting in piping systems. The 3510 now features both a 1/4" NPT high and 1/4" NPT low pressure port. All models have a neoprene diaphragm.

### DETAILS

**Capacity:** Heavy duty  
**C<sub>v</sub>:** 0.4 for 15 PSIG models 0.55 for all other models

**Gauges:** 2.5" Brass psi/bar

**Seat:** One-piece encapsulated seat design with internal filter and PTFE Teflon® seat. 15 PSIG models have neoprene seat.

**Pressure Regulation:**  
1.6 PSIG/100 PSIG

**Certifications:** CGA E-4

**Where Used:** Manifold systems, pipeline systems

**Weight:** 5.5 lbs./2.49 kg.



Additional Technical Information: PG. 178

PART NO.	MODEL NO.	GAS	MAX. INLET PSIG	DELIVERY PRESSURE RANGE PSIG	DELIVERY PRESSURE GAUGE PSIG	SUPPLY PRESSURE GAUGE PSIG	INLET CONNECTION	OUTLET CONNECTION
3003547**	3510-15-LH	FUEL GAS	400	0 - 15	30	400	1.00-11.5 NPS LH (M)	1.00-11.5 NPS LH (F)
3003548*	3510-125-LH	FUEL GAS	3000	0 - 125	200	4000	1.00-11.5 NPS LH (M)	1.00-11.5 NPS LH (F)
3003551*	3510-200-LH	FUEL GAS	3000	0 - 100	400	4000	1.00-11.5 NPS LH (M)	1.00-11.5 NPS LH (F)
3003546**	3510-15-RH	NON-FUEL GAS	400	0 - 15	30	400	1.00-11.5 NPS RH (M)	1.00-11.5 NPS RH (F)
3003549	3510-125-RH	NON-FUEL GAS	3000	0 - 125	200	4000	1.00-11.5 NPS RH (M)	1.00-11.5 NPS RH (F)
3003550	3510-200-RH	NON-FUEL GAS	3000	0 - 200	400	4000	1.00-11.5 NPS RH (M)	1.00-11.5 NPS RH (F)

\*NOT FOR USE WITH ACETYLENE.

\*\* NOT FOR HIGH PRESSURE CYLINDER GASES

CGAs Gas-996(RH), 997(LH)

# 3520

MODEL



## CYLINDER/PIPELINE HIGH FLOW

MODEL SHOWN:  
HP 3520-25NPT(F)

### DESCRIPTION

The Model 3520 is a high flow, two gauge, in-line manifold regulator for pipeline and other applications up to 3000 PSIG inlet pressure. Typically used for high flow, non-corrosive gas applications, high purity gas applications, process analyzer gases and bulk gas distribution systems. Models with a 15 lb delivery pressure have a neoprene diaphragm. All models with a delivery pressure of 50 PSIG and above have a stainless steel diaphragm.

### DETAILS

**Capacity:** High flow

**C<sub>v</sub>:** 0.55

**Gauges:** 2.5" Brass - psi/bar

**Pressure Regulation:**  
1.6 PSIG/100 PSIG

**Seat:** One-piece encapsulated seat design with internal filter and PTFE Teflon® seat. 15 PSIG model has neoprene seat.

**Certifications:** CGA E-4

**Where Used:** Manifold systems, pipeline systems

**Related Items:** CGA adaptor kits:  
CGA 540 - P/N: 9103615,  
CGA 580 - P/N: 9103616

**Weight:** 4.5 lbs./2.04 kg.



Additional Technical Information: PG. 179

PART NO.	MODEL NO.	GAS	MAX. INLET PSIG	DELIVERY PRESSURE RANGE PSIG	DELIVERY PRESSURE GAUGE PSIG	SUPPLY PRESSURE GAUGE PSIG	INLET CONNECTION	OUTLET CONNECTION
3003560	HP 3520-15	NON CORROSIVE	500	0 - 15	30	600	1/2" - NPT(F)	1/2" - NPT(F)
3003561	HP 3520-50	NON CORROSIVE	3000	0 - 50	100	4000	1/2" - NPT(F)	1/2" - NPT(F)
3003562	HP 3520-125	NON CORROSIVE	3000	0 - 125	200	4000	1/2" - NPT(F)	1/2" - NPT(F)
3003563	HP 3520-250	NON CORROSIVE	3000	0 - 250	400	4000	1/2" - NPT(F)	1/2" - NPT(F)
3003564	HP 3520-500	NON CORROSIVE	3000	0 - 500	600	4000	1/2" - NPT(F)	1/2" - NPT(F)

# 3530

MODEL



## HIGH FLOW PIPELINE

MODEL SHOWN:  
HP 3530-250 – ½" NPT

### DESCRIPTION

The Model 3530 is a brass barstock regulator for pipeline and manifold applications, plumbed in-line for inlet pressures up to 3000 PSIG. Designed for non-corrosive, high flow gas applications, process analyzer gases, laser gas systems and emission monitoring system gases. Models for high pressure inlet (500 PSI) include a high pressure external safety. Models with a 15 lb delivery pressure have a neoprene diaphragm. All models with a delivery pressure of 50 PSIG and above have a stainless steel diaphragm.

### DETAILS

**Capacity:** High flow

**C<sub>v</sub>:** 0.55

**Gauges:** 2.5" Brass psi/bar

**Pressure Rise:** 1.6 PSIG/100 PSIG

**Seat:** One-piece encapsulated valve design with internal filter and PTFE Teflon® seat

**Certifications:** CGA E-4

**Where Used:** Manifold systems, pipeline systems

**Related Items:** Brass bushing to convert ports. ¼" NPT (F) x ½" MNPT (M)  
P/N: 9005806

**Weight:** 4.3 lbs./1.95 kg.



Additional Technical Information: PG. 179

PART NO.	MODEL NO.	GAS	MAX. INLET PSIG	DELIVERY PRESSURE RANGE PSIG	DELIVERY PRESSURE GAUGE PSIG	SUPPLY PRESSURE GAUGE PSIG	INLET CONNECTION	OUTLET CONNECTION
4000800	HP 3530-15	NON CORROSIVE	500	0 - 15	30	-	½" - NPT (F)	½" - NPT (F)
4000801	HP 3530-50	NON CORROSIVE	3000	0 - 50	100	-	½" - NPT (F)	½" - NPT (F)
4000802	HP 3530-125	NON CORROSIVE	3000	0 - 125	200	-	½" - NPT (F)	½" - NPT (F)
4000803	HP 3530-250	NON CORROSIVE	3000	0 - 250	400	-	½" - NPT (F)	½" - NPT (F)
4000804	HP 3530-500	NON CORROSIVE	3000	0 - 500	600	-	½" - NPT (F)	½" - NPT (F)

# 3560

MODEL



## ULTRA HIGH FLOW PIPELINE

MODEL SHOWN:  
3560-125-½" NPT (F)

### DESCRIPTION

The Model 3560 is a single-stage neoprene diaphragm brass barstock regulator. It is designed specifically for applications demanding extremely high gas flows at low incoming pressures. The 3560 features eight functional body ports, two 1/2" and six 1/4" ports allowing for a wide selection of inlets/outlets and gauge location configurations. It's auxiliary HP gauge port allows the 3560 be used for low pressure cylinder applications.

### DETAILS

**Capacity:** Ultra high flow

**C<sub>v</sub>:** 1.0

**Gauges:** 2.5" Brass psi/bar

**Pressure Regulation:** 5.5 PSIG/100 PSIG

**Seat:** One-piece encapsulated valve design with internal filter and neoprene seats

**Certifications:** CGA E-4

**Where Used:** High flow pipeline, manifold systems and bulk systems

**Related Items:** Brass bushing ¼" NPT (F) x ½" MNPT (M)  
P/N: 9005806

Plug ¼" NPT hex socket P/N: 9000495

**Panel Mount:** Rear panel mountable

**Weight:** 6.7 lbs./3.04 kg.



Additional Technical Information: PG. 180

PART NO.	MODEL NO.	GAS	MAX. INLET PSIG	DELIVERY PRESSURE RANGE PSIG	DELIVERY PRESSURE GAUGE PSIG	SUPPLY PRESSURE GAUGE PSIG/BAR	INLET CONNECTIONS (F)	OUTLET CONNECTIONS (F)
4000959	3560-15	NON CORROSIVE	500	0 - 15	30	N/A	½" NPT	¼" NPT
4000960	3560-50	NON CORROSIVE	500	0 - 50	100	N/A	½" NPT	¼" NPT
4000961	3560-125	NON CORROSIVE	500	0 - 125	200	N/A	½" NPT	¼" NPT
4000962	3560-250	NON CORROSIVE	500	0 - 250	400	N/A	½" NPT	¼" NPT



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REGULATORS

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# 3590

MODEL



## ULTRA HIGH FLOW PIPELINE WITH STAINLESS STEEL DIAPHRAGM AND BODY

MODEL SHOWN:  
3590-125-1/2" NPT (F)

### DESCRIPTION

The Model 3590 is a pipeline type stainless steel diaphragm regulator with a stainless steel barstock body. It is designed specifically for applications demanding extremely high flows at low incoming pressures. The 3560 features eight functional body ports, two 1/2" and six 1/4" ports allowing for a wide selection of inlets/outlets and gauge location configurations. It's auxiliary HP gauge port allows the 3560 be used for low pressure cylinder applications.

### DETAILS

**Capacity:** Ultra high flow

**C<sub>v</sub>:** 1.0

**Gauges:** 2" Stainless steel psi/bar

**Pressure Regulation:** 5.5 PSIG rise/100 PSIG

**Seat:** One-piece encapsulated valve design with internal filter and PTFE® seats

**Certifications:** CGA E-4

**Where Used:** Manifold and pipeline systems, bulk systems

**Related Items:** Stainless steel bushing 1/4" NPT (F) x 1/2" MNPT P/N: 9005752  
Stainless steel plug 1/4" NPT hex socket P/N: 9000553

**Panel Mount:** Rear panel mountable

**Weight:** 6.9 lbs./3.13 kg.



Additional Technical Information: PG. 181

PART NO.	MODEL NO.	GAS	MAX. INLET PSIG	DELIVERY PRESSURE RANGE PSIG	DELIVERY PRESSURE GAUGE PSIG	SUPPLY PRESSURE GAUGE PSIG/BAR	INLET CONNECTIONS (F)	OUTLET CONNECTIONS (F)
4000973	3590-15	ATMOSPHERIC OR MILDLY CORROSIVE	500	0 - 15	30	-	1/2" NPT	1/2" NPT
4000974	3590-50	ATMOSPHERIC OR MILDLY CORROSIVE	500	0 - 50	100	-	1/2" NPT	1/2" NPT
4000975	3590-125	ATMOSPHERIC OR MILDLY CORROSIVE	500	0 - 125	200	-	1/2" NPT	1/2" NPT
4000976	3590-250	ATMOSPHERIC OR MILDLY CORROSIVE	500	0 - 250	400	-	1/2" NPT	1/2" NPT
4000977	3590-500	ATMOSPHERIC OR MILDLY CORROSIVE	500	0 - 500	1000	-	1/2" NPT	1/2" NPT

## PRO INFO

### WHY DO CYLINDER VALVES HAVE DIFFERENT THREAD TYPES?



It is required in the U.S. by OSHA and the Compressed Gas Association (CGA) that cylinder valves be designed differently to prevent interchangeability with gas systems and equipment. This is one of the most important safety practices in the gas industry. For instance, if a used acetylene regulator were allowed to be assembled to a full oxygen cylinder, the result could be a catastrophic fire/explosion with the possibility of severe injuries and/or death to personnel in close proximity.

Every cylinder valve has a number stamped on its body to indicate the proper gas service. That number must correspond exactly to the CGA cylinder connection number on regulators and valves, or it will not assemble. It is extremely dangerous to attempt to connect gas regulators to cylinders for which they were not designed. All users of gas control equipment should make sure that all regulator, pigtails, manifolds, etc., have matching CGA numbers on the cylinder valve. If there are any questions at all, immediately contact the gas supplier or Harris Technical Service for instructions.

# 247 MODEL



## ECONOMY PIPELINE/STATION BACK ENTRY

MODEL SHOWN:  
247-125-CR

### DESCRIPTION

The economically priced Model 247 provides high gas flow for gas distribution systems. It is available in both pipeline and station models. They feature chrome plated zinc die-cast bonnets.

### DETAILS

**Capacity:** Heavy duty  
**C<sub>v</sub>:** 0.53  
**Gauge:** 2" Steel  
**Pressure Regulation:**  
 1.6 PSIG/100 PSIG

**Seat:** One-piece encapsulated seat design with internal filter and PTFE Teflon® seat, low pressure versions feature a neoprene seat (NC)

**Certifications:** CGA E-4

**Related Equipment:**  
 Station Drops p.164  
 Station Valves p.163

**Weight:** 3.6 lbs./1.63 kg.



Additional Technical Information: PG. 182

## PIPELINE ¼ NPT Inlet

PART NO.	MODEL NO.	GAS	MAX. INLET PSIG	DELIVERY PRESSURE RANGE PSIG	DELIVERY PRESSURE GAUGE PSIG	INLET CONNECTION	OUTLET CONNECTION
4000815	247NC-15-¼"L	FUEL	500	0 - 15	30	¼" - NPT (F)	⅝" - 18LH
4000820	247-50-¼"L	FUEL	500	0 - 50	100	¼" - NPT (F)	⅝" - 18LH
4000814	247NC-15-¼"R	OXYGEN	500	0 - 15	30	¼" - NPT (F)	⅝" - 18RH
4000819	247-50-¼"R	OXYGEN	500	0 - 50	100	¼" - NPT (F)	⅝" - 18RH
4000825	247-125-¼"R	OXYGEN	500	0 - 125	150	¼" - NPT (F)	⅝" - 18RH
4000829	247-200-¼"R	OXYGEN	500	0 - 200	400	¼" - NPT (F)	⅝" - 18RH
4000811	247NC-1-¼"R (F)	AIR, INERT , OIL FREE	500	0 - 1	15	¼" - NPT (F)	⅝" - 18RH (F)
4000826	247-125-¼"R (F)	AIR, INERT , OIL FREE	500	0 - 125	150	¼" - NPT (F)	⅝" - 18RH (F)
4000821	247-50-¼"R (F)	AIR, INERT, OIL FREE	500	0 - 50	100	¼" - NPT (F)	⅝" - 18RH (F)
4000818	247-20P-¼"R	AIR, INERT, OIL FREE	500	20 PRESET	N/A	¼" - NPT (F)	⅝" - 18RH (M)

## STATION "C" Inlet

PART #	MODEL #	GAS	MAX. INLET PSIG	DELIVERY PRESSURE RANGE PSIG	DELIVERY PRESSURE GAUGE PSIG	INLET CONNECTION	OUTLET CONNECTION
4000813	247NC-1-CL	FUEL GAS	200	0 - 1	15	⅜" - 14LH (F)	⅝" - 18LH
4000817	247NC-15-CL	FUEL GAS	200	0 - 15	30	⅜" - 14LH (F)	⅝" - 18LH
4000823	247-50-CL	FUEL GAS	200	0 - 50	100	⅜" - 14LH (F)	⅝" - 18LH
4000816	247NC-15-CR	OXYGEN	200	0 - 15	30	⅜" - 14RH (F)	⅝" - 18RH
4000822	247-50-CR	OXYGEN	200	0 - 50	100	⅜" - 14RH (F)	⅝" - 18RH
4000827	247-125-CR	OXYGEN	200	0 - 125	150	⅜" - 14RH (F)	⅝" - 18RH
4000830	247-200-CR	OXYGEN	200	0 - 200	400	⅜" - 14RH (F)	⅝" - 18RH
4000831	247-200-CRM	AIR, INERT GAS, OIL FREE	200	0 - 200	400	⅜" - 14RH (M)	⅝" - 18RH (F)
4000824	247-50-CRM	AIR, INERT GAS, OIL FREE	200	0 - 50	100	⅜" - 14RH (M)	⅝" - 18RH (F)
4000828	247-125-CRM	AIR, INERT GAS, OIL FREE	200	0 - 125	150	⅜" - 14RH (M)	⅝" - 18RH (F)

Note: "C" or station CGA inlet connection - fuel gas - 025, oxygen - 024, inert gas - 034

# 447

MODEL



## PIPELINE/STATION BACK ENTRY

MODEL SHOWN:  
447-125-CRM

### DESCRIPTION

The Model 447 regulators are designed to deliver high gas flows from piping systems that are equipped with standard pipe connection outlets or with station regulator connections. The 447 also has a brass bonnet and gauge.

### DETAILS

**Capacity:** Heavy duty, high flow

**C<sub>v</sub>:** 0.53

**Gauge:** 2.5" Brass

**Pressure Regulation:**  
1.6 PSIG/100 PSIG

**Seat:** One-piece encapsulated seat design with internal filter and PTFE Teflon® seat, low pressure models feature neoprene seats(NC)

**Certifications:** CGA E-4

**Weight:** 3.6 lbs./1.63 kg.

**Related Equipment:**

Station Drops p.164

Station Valves p.163



Additional Technical Information: PG. 182

## PIPELINE 1/4" NPT Inlet

PART NO.	MODEL NO.	GAS	MAX. INLET PSIG	DELIVERY PRESSURE RANGE PSIG	DELIVERY PRESSURE GAUGE PSIG	INLET CONNECTION	OUTLET CONNECTION
4000568	447NC-1-1/4" L	FUEL	500	0 - 1	15	1/4" NPT (F)	3/8" - 18 LH
4000569	447NC-15-1/4" L	FUEL	500	0 - 15	30	1/4" NPT (F)	3/8" - 18 LH
4000571	447-50-1/4" L	FUEL	500	0 - 50	100	1/4" NPT (F)	3/8" - 18 LH
4000585	447-125-1/4" L	FUEL	500	0-125	200	1/4" NPT (F)	3/8" - 18 LH
4000587	447NC-200-1/4" L	FUEL	500	0-200	400	1/4" NPT (F)	3/8" - 18 LH
4000573	447-50-1/4" R	OXYGEN	500	0 - 50	100	1/4" NPT (F)	3/8" - 18 RH
4000575	447-125-1/4" R	OXYGEN	500	0 - 125	200	1/4" NPT (F)	3/8" - 18 RH
4000577	447-200-1/4" R	OXYGEN	500	0 - 200	400	1/4" NPT (F)	3/8" - 18 RH
4000586	447NC-200-1/4" R	OXYGEN	500	0 - 200	400	1/4" NPT (F)	3/8" - 18 RH
4000579	447NC-15-1/4" R	OXYGEN	500	0 - 15	30	1/4" NPT (F)	3/8" - 18 RH
4000580	447-50-1/4" R (F)	AIR, INERT	500	0 - 50	100	1/4" NPT (F)	3/8" - 18 RH (F)
4000582	447-125-1/4" R (F)	AIR, INERT	500	0 - 125	200	1/4" NPT (F)	3/8" - 18 RH (F)
4000590	447NC-200-1/4" R (F)	AIR, INERT	500	0 - 200	400	1/4" NPT (F)	3/8" - 18 RH (F)
4000584	447-20P-1/4" R	AIR, INERT	500	20 PRESET	N/A	1/4" NPT (F)	3/8" - 18 RH (M)
4000588	447NC-1-1/4" R (F)	AIR, INERT	500	0 - 1	15	1/4" NPT (F)	3/8" - 18 RH (F)

## STATION "C" Inlet (3/8" - 14")

PART NO.	MODEL NO.	GAS	MAX. INLET PSIG	DELIVERY PRESSURE RANGE PSIG	DELIVERY PRESSURE GAUGE PSIG	INLET CONNECTION	OUTLET CONNECTION
4000548	447NC-1-CL	FUEL	200	0 - 1	15	3/8" - 14 LH (F) - 025	3/8" - 18 LH
4000549	447NC-15-CL	FUEL	200	0 - 15	30	3/8" - 14 LH (F) - 025	3/8" - 18 LH
4000551	447-50-CL	FUEL	200	0 - 50	100	3/8" - 14 LH (F) - 025	3/8" - 18 LH
4000566	447NC-15-CR	OXYGEN	200	0 - 15	30	3/8" - 14 RH (F) - 025	3/8" - 18 RH
4000553	447-50-CR	OXYGEN	200	0 - 50	100	3/8" - 14 RH (F) - 025	3/8" - 18 RH
4000555	447-125-CR	OXYGEN	200	0 - 125	200	3/8" - 14 RH (F) - 025	3/8" - 18 RH
4000557	447-200-CR	OXYGEN	200	0 - 200	400	3/8" - 14 RH (F) - 025	3/8" - 18 RH
4000559	447-50-CRM	AIR, INERT	200	0 - 50	100	3/8" - 14 RH (M) - 025	3/8" - 18 RH (F)
4000561	447-125-CRM	AIR, INERT	200	0 - 50	200	3/8" - 14 RH (M) - 025	3/8" - 18 RH (F)
4000563	447-200-CRM	AIR, INERT	200	0 - 200	400	3/8" - 14 RH (M) - 025	3/8" - 18 RH (F)

Note: "C" or station CGA inlet connection - fuel gas - 025, oxygen - 024, inert gas - 034



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