

# Cole-Parmer® Gas Regulators

Deliver gas at constant pressure and volume, from full cylinder inlet pressure to end point working pressure

## General-Purpose Regulators

These regulators are designed for economy and longevity in applications involving inert and noncorrosive gases. Include 10 µm sintered SS filter, rubber valve seat, nylon-reinforced rubber diaphragm, aluminum-alloy body and bonnet, and brass gauges.

### A. Single-Stage Regulators

are designed for long-life performance where precise pressure control is not desired. Overload protected.

### B. Two-Stage Regulators

reduce cylinder pressure in two stages. Use first stage to approach working pressure; use second stage for precise adjustment of working pressure. Second stage is overload protected.

## High-Purity Regulators

Ideal for corrosive or noncorrosive gas applications. Designed and constructed for diffusion resistance and easy cleanup. Only brass, stainless steel (SS), PTFE, and Kel-F® contact the operating media. Metal diaphragm, packless valves, and high-purity seals minimize or eliminate outgoing and inboard diffusion. Supplied with SS screen filter (25 µm); and brass body, bonnet, and gauges.

### C. Single-Stage High-Purity Regulators

are recommended for analytical work where precise pressure control is not critical.

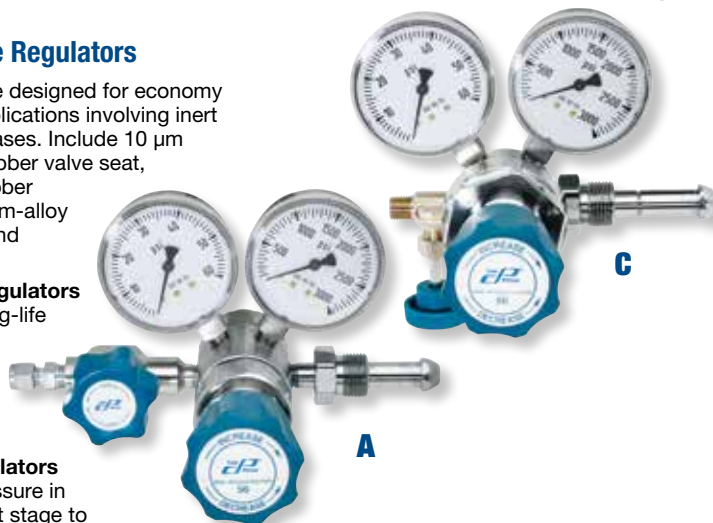
**D. Two-Stage High-Purity Regulators** let you precisely regulate working pressure.

## Special-Service Regulators

**E. Model 03274-10** is a single-stage unit specially designed for gases that attack brass or copper-bearing alloys. When used with low-vapor-pressure liquefied gases, no inlet gauge is needed. Rubber-supported PTFE diaphragm, Kel-F® seat, aluminum-alloy body and bonnet, SS delivery gauge, and 10 µm sintered SS filter.

**F. Model 03274-15** is for regulating corrosive halogen gases. Monel® filter, body, gauges, and diaphragm; chrome-plated brass bonnet; and Kel-F® valve seat.

**G. Model 03274-20** is a two-stage 316 SS regulator with packless diaphragm valve—handles electronic and corrosive gases. Only SS and PTFE contact operating media. Excellent diffusion resistance; effective for trace analysis. Metal-to-metal diaphragm seal minimizes leak rate to reduce vacuum purging time and residual contaminant levels. Bubble-tight shutoff.



Gas/Regulator Selection Table

Gas	Quality grade	Key letter	CGA fitting
Air	Compressor	<b>A-B</b>	346
	Ultrapure, Zero grade	<b>C-D</b>	590
Ar	Ultra high-purity	<b>A-B</b>	580
	Research, Ultrapure	<b>C-D</b>	580
	Zero grade	<b>C-D</b>	580
BF <sub>3</sub>	All	<b>F</b>	330
C <sub>2</sub> H <sub>4</sub>	All	<b>A-B</b>	350
C <sub>2</sub> H <sub>6</sub>	All	<b>A-B</b>	350
CF <sub>4</sub>	All	<b>A</b>	580
CH <sub>4</sub>	Chemically pure, Technical	<b>A-B</b>	350
	Commercial	<b>A-B</b>	350
	Instrument	<b>C-D</b>	350
CO	All	<b>A-B</b>	350
CO <sub>2</sub>	Coleman, Chemically pure	<b>A-B</b>	320
	Research, Anaerobe grade	<b>C-D</b>	320
D <sub>2</sub>	Chemically pure	<b>A-B</b>	350
	Research	<b>C-D</b>	350
H <sub>2</sub>	Ultra high-purity	<b>A-B</b>	350
	Research, Ultrapure	<b>C-D</b>	350
	Zero grade	<b>C-D</b>	350
HCl	Electronic, Technical	<b>F</b>	330
He	High-purity	<b>A-B</b>	580
	Research, Ultrapure	<b>C-D</b>	580
	Zero grade	<b>C-D</b>	580
Kr	Research	<b>C-D</b>	580
N <sub>2</sub>	Ultra high-purity	<b>A-B</b>	580
	Research, Ultrapure	<b>C-D</b>	580
	Zero grade	<b>C-D</b>	580
Ne	Chemically pure	<b>A-B</b>	580
	Research	<b>C-D</b>	580
NF <sub>3</sub>	All	<b>F</b>	330
NH <sub>3</sub>	Electronic	<b>E</b>	660
	Research, Ultrapure	<b>C-D</b>	540
O <sub>2</sub>	Research, Ultrapure	<b>C-D</b>	540
	Zero grade	<b>C-D</b>	540
	Extra-dry	<b>C</b>	540
SF <sub>6</sub>	All	<b>A-B</b>	590
SiH <sub>4</sub>	Semiconductor	<b>G</b>	350
Xe	All	<b>C-D</b>	580

## Specifications

### Maximum delivery pressure:

Low psig series—  
Model G (03274-20): 25 psi  
All other low psig models: 50 psi

High psig series—  
Model F (03274-15): 200 psi  
All other high psi models: 100 psi

### Maximum inlet pressure:

Model E (03274-10): 400 psi  
All other models: 3000 psi

### Delivery gauge graduations:

Low psig series  
Model G (03274-20): 1 psi  
All other models: 2 psi  
High psig series: 5 psi

### Inlet gauge graduations:

Models F and G: 50 psi  
All other models: 100 psi

### Outlet connection:

Models A, B, E, and F: 1/4" NPT(M)  
Models C, D, and G: 1/4" NPT(F);  
compression fitting for 6-mm  
OD tubing included

Key	Type	CGA fitting	Low psig regulators			High psig regulators		
			Catalog number	Capacity	Price	Catalog number	Capacity	Price
A	Single-stage	320	<a href="#">GH-98202-00</a>	850 scfh		<a href="#">GH-98202-10</a>	1500 scfh	
		346	<a href="#">GH-98202-01</a>	850 scfh		<a href="#">GH-98202-11</a>	1500 scfh	
		350	<a href="#">GH-98202-02</a>	850 scfh		<a href="#">GH-98202-12</a>	1500 scfh	
		580	<a href="#">GH-98202-03</a>	850 scfh		<a href="#">GH-98202-13</a>	1500 scfh	
		590	<a href="#">GH-98202-04</a>	850 scfh		<a href="#">GH-98202-14</a>	31500 scfh	
B	Two-stage	320	<a href="#">GH-98202-20</a>	600 scfh		<a href="#">GH-98202-30</a>	1200 scfh	
		350	<a href="#">GH-98202-22</a>	600 scfh		<a href="#">GH-98202-31</a>	1200 scfh	
		540	<a href="#">GH-98202-24</a>	600 scfh		<a href="#">GH-98202-32</a>	1200 scfh	
		580	<a href="#">GH-98202-26</a>	600 scfh		<a href="#">GH-98202-33</a>	1200 scfh	
		590	<a href="#">GH-98202-28</a>	600 scfh		<a href="#">GH-98202-34</a>	1200 scfh	
C	High-purity single-stage	320	<a href="#">GH-98210-20</a>	500 scfh		<a href="#">GH-98210-30</a>	1000 scfh	
		350	<a href="#">GH-98210-22</a>	500 scfh		<a href="#">GH-98210-32</a>	1000 scfh	
		540	<a href="#">GH-98210-24</a>	500 scfh		<a href="#">GH-98210-34</a>	1000 scfh	
		580	<a href="#">GH-98210-26</a>	500 scfh		<a href="#">GH-98210-36</a>	1000 scfh	
		590	<a href="#">GH-98210-28</a>	500 scfh		<a href="#">GH-98210-38</a>	1000 scfh	
D	High-purity two-stage	320	<a href="#">GH-98210-00</a>	450 scfh		<a href="#">GH-98210-10</a>	900 scfh	
		350	<a href="#">GH-98210-02</a>	450 scfh		<a href="#">GH-98210-12</a>	900 scfh	
		540	<a href="#">GH-98210-04</a>	450 scfh		<a href="#">GH-98210-14</a>	900 scfh	
		580	<a href="#">GH-98210-06</a>	450 scfh		<a href="#">GH-98210-16</a>	900 scfh	
		590	<a href="#">GH-98210-08</a>	450 scfh		<a href="#">GH-98210-18</a>	900 scfh	
E	Specialty	660	<a href="#">GH-03274-10</a>	2200 scfh	—	—	—	
F		330	—	—	<a href="#">GH-03274-15</a>	780 scfh	—	
G		350	<a href="#">GH-03274-20</a>	190 scfh	—	—	—	