

Overview of Restek's Chrome-Plated Brass and Stainless Steel Body Ultra-High-Purity Gas Regulators

These regulators feature metal-to-metal seals throughout for long-term leak-tightness, and a metal diaphragm outlet valve ensures gas purity. Each regulator is helium leak-test-certifiable to 1x10⁻⁸scc/sec. and is fully assembled and tested for your convenience. 100psig maximum delivery pressure supports EPC operation. Maximum inlet pressure is 3000psig. Chrome-plated brass bar stock construction minimizes dead volume. Stainless steel construction is more easily purged of atmospheric contaminants, and is more resistant to attack from dry corrosive gases.

Ultra-High-Purity Brass Body Gas Regulators

These regulators are the best choice when using ultra-high-purity carrier gas for sensitive GC applications using MS, PID, HID, or ECD detection methods. They feature reduced internal dead-volume, relative to stainless steel bodies. The stainless steel gas regulator diaphragm minimizes nonmetal parts, to help ensure ultra-high gas purity, and the metal valve diaphragm ensures leak-free shut-off. Oxidation-resistant chrome plating maintains a like-new appearance.

Dual-Stage Ultra-High-Purity Chrome-Plated Brass Gas Regulators

- Oxidation-resistant, chrome-plated.
- Most stable outlet pressure control throughout the life of a high-pressure gas cylinder.
- Secondary pressure regulation not needed.
- Most widely used regulator.
- Less internal volume than stainless steel gas regulators.



Outlet pressure: 0 to 100psig (0-689kPa)
 Outlet gauge: 30" - 0 to 200psig (0-1379kPa)
 Inlet gauge: 0 to 4000psig (0-27,579kPa)
 Outlet assembly: diaphragm valve, 1/4" tube fitting

Fitting	qty.	cat.#
CGA 580 (N ₂ , He, Ar)	ea.	21667
CGA 350 (H ₂ , P ₂)	ea.	21668
CGA 590 (Air)	ea.	21669

Single-Stage Ultra-High-Purity Chrome-Plated Brass Gas Regulators

- Oxidation-resistant, chrome-plated.
- Use when there is secondary pressure regulation downstream.
- Identical gas purity protection as with our dual-stage gas regulators.



Outlet pressure: 0 to 100psig (0-689kPa)
 Outlet gauge: 30" - 0 to 200psig (0-1379kPa)
 Inlet gauge: 0 to 4000psig (0-27,579kPa)
 Outlet assembly: diaphragm valve, 1/4" tube fitting

Fitting	qty.	cat.#
CGA 580 (N ₂ , He, Ar)	ea.	20646
CGA 350 (H ₂ , P ₂)	ea.	20647
CGA 590 (Air)	ea.	20648

Ultra-High-Purity Chrome-Plated Brass Line Gas Regulator

- Oxidation-resistant, chrome-plated.
- Use where you need to reduce the line pressure by 20psig (138kPa) or more.
- Same purity protection as high-pressure cylinder regulators.

Inlet connections: 1/4" FPT
 Outlet assembly: 1/4" FPT port



Fitting	Outlet Gauge	Outlet Pressure	qty.	cat.#
1/4" female NPT ports*	30" - 0 to 100psig (0-689kPa)	0-50psig (0-345kPa)	ea.	21666
1/4" female NPT ports*	30" - 0 to 200psig (0-1379kPa)	0-100psig (0-689kPa)	ea.	22452

*Order appropriate male connector, pipe-to-tube fittings.

Male Connector, Pipe-to-Tube Fittings

Fitting Type	Size (inches)	Parker #	Similar to Swagelok®	Brass		Stainless Steel	
				qty.	cat.#	qty.	cat.#
Male Connector	1/8" to 1/4" NPT	4 MSC 4N	400-1-4	10-pk.	21842	2-pk.	21942
Male Connector	1/8" to 1/4" NPT	2 MSC 4N	200-1-4	10-pk.	21844	2-pk.	21944
Tube End Reducer	1/4" tube to 1/8"	4 TUR 2	200-R-4	5-pk.	21834	2-pk.	21934



male connector



tube end reducer

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