

# Chrome-Plated Regulators

## High-Purity for Noncorrosive Service

Models 205 and 211

Chrome-plated regulators are designed for high-purity laboratory applications involving noncorrosive gases. Single-stage design is recommended for use where inlet pressure does not vary greatly such as with liquefied gases, or where periodic readjustment of delivery pressure setting does not present a problem. Two-stage design is recommended for use where constant delivery pressure is desired.



Model 211

### Benefits/Features

Stainless steel diaphragm minimizes diffusion of air into regulator and eliminates off-gassing.

High-purity regulator design permits vacuum purging of regulator.

Sintered metal filters in seat assembly trap foreign particles and extend regulator service life.

Chrome-plated surface provides polished appearance for easy cleaning.

Chrome-plated outlet valve with diaphragm seal provides on/off flow control and helps maintain gas purity.

Two-stage design ensures constant delivery pressure as inlet pressure decreases.

### Specifications

**Inlet Pressure:** 3000 psig (207 bar) maximum

**Operating Temperature Range:**  
-40°F to 140°F (-40°C to 60°C)

**Flow Coefficient:**  
Single-stage design: Cv = 0.18  
Two-stage design: Cv = 0.15

**Supply Pressure Effect:**  
Single-stage design: 1 psi per 100 psi  
(0.1 bar per 7 bar)  
Two-stage design: 0.04 psi per 100 psi  
(0 bar per 7 bar)

**Regulator Inlet Port:** 1/4" NPT Female  
**Inlet Connection:** Specify CGA

**Outlet Connection:** 1/4" NPT Female and all other inlet/outlet configurations

**Gauge Size:** 2" (53 mm) face

**Weight:**  
Single-stage design: 4.3 lbs. (1.9 kg)  
Two-stage design: 5.8 lbs. (2.6 kg)

### Materials of Construction

**Body:** Chrome-plated brass

**Diaphragm:** 304 Stainless Steel

**Seat:** PTFE

**Seal:** PTFE

**Bonnet:** Chrome-plated zinc

**Gauges:** Chrome-plated brass

Model 205, 211 Chrome-Plated Brass	Delivery Pressure Range		Delivery Pressure Gauge (dual scale)		Cylinder Pressure Gauge (dual scale)	
	psig	bar	psig	bar	psig	bar
<b>Single-Stage</b>						
Q1-205A-(*)	2 – 15	0.1 – 1	30" Vac – 0 – 30	-1 – 0 – 2	0 – 4000**	0 – 276
Q1-205B-(*)	4 – 50	0.3 – 4	30" Vac – 0 – 100	-1 – 0 – 7	0 – 4000**	0 – 276
Q1-205C-(*)	10 – 125	0.7 – 9	30" Vac – 0 – 200	-1 – 0 – 14	0 – 4000	0 – 276
Q1-205D-(*)	20 – 250	1 – 17	0 – 400	0 – 28	0 – 4000	0 – 276
<b>Two-Stage</b>						
Q1-211A-(*)	2 – 15	0.1 – 1	30" Vac – 0 – 30	-1 – 0 – 2	0 – 4000	0 – 276
Q1-211B-(*)	4 – 50	0.3 – 4	30" Vac – 0 – 100	-1 – 0 – 7	0 – 4000	0 – 276
Q1-211C-(*)	10 – 125	0.7 – 9	30" Vac – 0 – 200	-1 – 0 – 14	0 – 4000	0 – 276
Q1-211D-(*)	20 – 250	1 – 17	0 – 400	0 – 28	0 – 4000	0 – 276

\* Specify CGA. Other cylinder connections are available – please contact your Air Liquide representative.

\*\* For low-pressure cylinders with <300 psig (21 bar), the Model 205 regulator is available with 0 – 400 psig (28 bar) cylinder gauges. Add "4G" to the model number before the specified CGA. Example: Q1-205B4G-510.