

# General Purpose Regulators

## For Noncorrosive Service

### Model 20

These single-stage regulators are designed specifically for lecture bottles. The Model 20, with brass construction, is perfect for use with noncorrosive gases.



### Benefits/Features

Compact and lightweight, with swivel inlet connection.

Outlet angle-style needle valve is standard.

### Specifications

**Inlet Pressure:** 2500 psig (172 bar) maximum

**Operating Temperature Range:**  
-20°F to 120°F (-28°C to 48°C)

**Flow Coefficient:** Cv = 0.05

**Regulator Inlet Port:**

20BS: 1/8" NPT Female

20B, 20C: 1/4" NPT Female

**Inlet Connection:** Specify CGA

**Outlet Connection:** 1/8" NPT Male

**Gauge Size:** 1.5" (41 mm) face

**Weight:** 2 lbs. (0.9 kg)

### Materials of Construction

**Body:** Brass

**Diaphragm:** Neoprene

**Seat:** PCTFE

**Seal:** Neoprene

**Bonnet:** Chrome-plated zinc

**Gauge:** Phosphor bronze/beryllium copper

Model 20	Delivery Pressure Range		Delivery Pressure Gauge (dual scale)		Cylinder Pressure Gauge (dual scale)	
	psig	bar	psig	bar	psig	bar
Brass						
Q1-20BS-165	2 – 15	0.1 – 1	0 – 30	0 – 2	0 – 400	0 – 28
Q1-20B-(* )	2 – 15	0.1 – 1	0 – 30	0 – 2	0 – 4000	0 – 276
Q1-20C-(* )	2 – 100	0.1 – 7	0 – 150	0 – 10	0 – 4000	0 – 276

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

# Ultra-High-Purity Regulators

## For Corrosive Service

### Model 220

These single-stage regulators are designed specifically for lecture bottles. The Model 220 features stainless steel construction for applications involving high-purity corrosive gases.



#### Benefits/Features

Filter traps foreign matter, extends regulator life and reduces maintenance.

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

Convolute stainless steel diaphragm provides excellent delivery pressure accuracy.

#### Specifications

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

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

**Flow Coefficient:**  $C_v = 0.06$

**Regulator Inlet Port:** 1/4" NPT Female

**Inlet Connection:** CGA 110 or 180

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

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

**Weight:** 2.9 lbs. (1.3 kg)

#### Materials of Construction

**Body:** 316 Stainless Steel

**Diaphragm:** 316 Stainless Steel

**Seat:** PCTFE

**Seal:** PTFE

**Bonnet:** 300 Stainless Steel

**Gauge:** Stainless steel

Model 220	Delivery Pressure Range		Delivery Pressure Gauge (dual scale)		Cylinder Pressure Gauge (dual scale)	
	psig	bar	psig	bar	psig	bar
Stainless Steel						
Q1-220AS-(*)	1 – 30	0.1 – 2	30" Vac – 0 – 60	-1 – 0 – 4	0 – 4000	0 – 276
Q1-220BS-(*)	2 – 75	0.1 – 5	30" Vac – 0 – 100	-1 – 0 – 7	0 – 4000	0 – 276

\* Specify CGA 110 or 180.

Option: Model No. Q4-62S4MFL diaphragm valve