

# BRASS

## HIGH PURITY 2-STAGE REGULATOR

### Series 3200

#### DESCRIPTION

The Series 3200 two stage regulators are designed and constructed for both high purity and general purpose applications. While compact in design these regulators provide outstanding performance, comparable to most larger diaphragm competitive models. They are ideally suited for use with gases and gas mixtures having a full cylinder pressure of 1000 psig or more. The construction is rugged enough for the plant, yet versatile enough for the laboratory.

#### FEATURES

- High purity diffusion resistant, metal diaphragm construction on both stages.
- Encapsulated seats on both stages.
- Diffusion resistant, brass diaphragm packless control valve installed on outlet as standard.
- Designed to pass an inboard helium leak-rate test of  $1 \times 10^{-9}$  cc per sec.
- All parts ultrasonically cleaned prior to assembly.
- Optional interstage safety relief valve available.

#### APPLICATIONS

The 3200 Series regulators are ideal for critical pressure reduction applications, where the precise control of pressure or flow is required. They are an excellent choice for use with high purity carrier gases or gas mixtures used with gas chromatographs and other instrumentation. Once you experience the improved control of gas to your gas chromatograph or other system, you will want to upgrade all your other regulators.

#### SPECIFICATIONS

Max. Inlet Pressure: 3000 psig  
 Operating Temp. Range: -40° to +185°F.  
 Flow Coefficient( $C_v$ ): 0.08 Standard, 0.2 optional\*\*  
 Inlet and Outlet: 1/4" NPT female  
 Outlet Valve Standard  
 Delivery Pressure Rise: 0.02 psig max. per 100 psi inlet pressure decay.

#### HOW TO ORDER\*\*\*

Model Number	Del. Press. Range psig	Del. Press. Gauge psig	Inlet Press. Gauge psig
3201-10-CGA*	5-10	0-30	0-4000
3201-25-CGA*	5-25	0-30	0-4000
3201-50-CGA*	5-50	0-100	0-4000
3201-100-CGA*	10-100	0-200	0-4000
3201-250-CGA*	10-250	0-400	0-4000
3201-500-CGA*	100-500	0-600	0-4000

\*Specify CGA connection number when ordering.

\*\*Add "HF" to basic model number (i.e. 3201 HF-25-CGA).

\*\*\*For panel mounting bonnet add "PM" to base number (i.e., 3201PM-50-CGA).



#### MATERIALS OF CONSTRUCTION

Body: brass  
 Nozzle Assemblies: brass  
 Seat: 1st stage - Kel-F®  
       2nd stage - Kel-F®  
 Diaphragm: stainless steel  
 Diaphragm Seal: Teflon®  
 Inlet Filter: stainless steel  
 Bonnet: nickel plated aluminum  
 Gauges: brass  
 Knob: aluminum - black anodized



EZ3200 Bracket  
(see page 101).

#### OUTLET OPTIONS

	P/N Suffix
No Outlet Valve	NV
1/4" Compression Fitting	T4F
1/8" Compression Fitting	T2F
1/4" NPT Male	P4M
1/4" Hose Barb	4HB