

# Back-Pressure Regulators

## High-Purity for Noncorrosive/Corrosive Service

### Model 2800

These high-purity back-pressure regulators are designed to control the internal pressure in an instrumented system. Unlike pressure reducing regulators, these control inlet pressure rather than outlet or downstream pressures and operate like highly sensitive adjustable relief valves. The inlet pressure is controlled by relieving pressure from the system to maintain pressure at or below a desired level. They are commonly used to prevent over pressurization of storage vessels, compressors and pumping systems.



#### Benefits/Features

Convuluted stainless steel diaphragm provides precise pressure relief accuracy.  
 Threaded holes in rear of regulator allow front panel mounting for pressure control at the point-of-use.  
 Threaded bonnet allows for easy rear panel mounting.

#### Specifications

**Rated Pressure:** 250 psig (17 bar) maximum  
**Operating Temperature Range:** -40°F to 165°F (-40°C to 60°C)  
**Flow Coefficient:** Cv = 0.08  
**Regulator Inlet Port:** 1/4" NPT Female  
**Inlet Connection:** 1/4" NPT Female

**Outlet Connection:** 1/4" NPT Female  
**Extra HP Port Plug:** 1/4" NPT Female  
**Weight:** 2.1 lbs. (1 kg)

#### Materials of Construction

**Body:** Brass bar stock or 316 Stainless Steel  
**Diaphragm:** 316 Stainless Steel  
**Seat:** PCTFE  
**Bonnet:** Brass bar stock or 316 Stainless Steel

Model 2800		Controlled Pressure Range	
		psig	bar
Brass	Stainless Steel		
Q1-2800AB	Q1-2800AS	3 – 30	0.2 – 2
Q1-2800BB	Q1-2800BS	4 – 50	0.3 – 4
Q1-2800CB	Q1-2800CS	10 – 100	0.7 – 7
Q1-2800DB	Q1-2800DS	20 – 250	1 – 17

Options: Model No. Q1-CAPVENTSS Capture bonnet vent connection for stainless steel regulators  
 Model No. Q1-CAPVENTBR Capture bonnet vent connection for brass regulators  
 Model No. Q4-68EB-(\*) brass 2" gauge 1/4" NPT Male  
 Model No. Q4-68ES-(\*) stainless steel 2" gauge 1/4" NPT Male

Please note: Specify maximum pressure.