

205 Series Regulator

Single Stage

Chrome-Plated

Forged Brass Body

*Four-Port
Configuration*

*316L Stainless Steel
Diaphragm*

The 205 Series regulators are intended for secondary pressure control of non-corrosive, high purity or liquefied gases (up to grade 4.5) or as point of use pressure control in high purity gas distribution systems.

Typical Applications

- Point of use laboratory systems
- Gas supply purging
- Liquefied hydrocarbon gas control
- Control of cryogenic gases
- Bulk gas distribution systems

Advanced Features

- *Chrome-plated forged brass body*
Economical high purity design
- *High flow capacity*
Supply multiple user locations
- *Pressure ranges 0-15 to 0-200 psig*
Broad range of applications
- *3000 psig inlet pressure rating*
Safe use with high pressure cylinders



205-3021 shown

200 Advantage

Materials

Specifications

- *Capsule® seat*
Increased serviceability and life
- *316L stainless steel diaphragm*
No inboard diffusion
- *Forged body*
Durable, long-lasting construction
- *Field-adjustable pressure limit*
Safeguard downstream equipment
- *Large convoluted diaphragm*
Smooth pressure changes
- *Standard relief valve*
Diaphragm and gauge protection

Body
Chrome-plated forged brass

Bonnet
Chrome-plated die cast zinc

Seat
PTFE

Filter
10 micron sintered bronze

Diaphragm
316L stainless steel

Internal Seals
PTFE

Maximum Inlet Pressure
3000 psig (210 BAR)

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

Gauge
2½" diameter chrome-plated brass

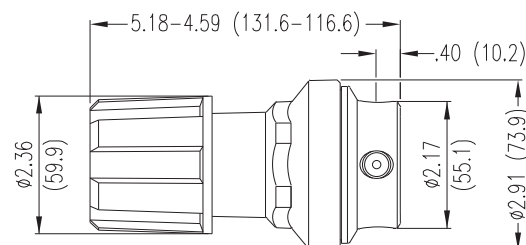
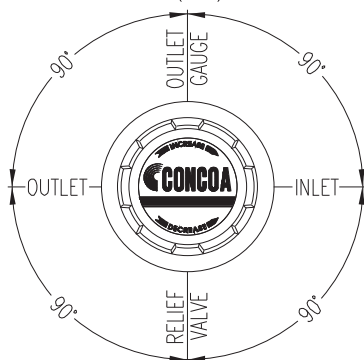
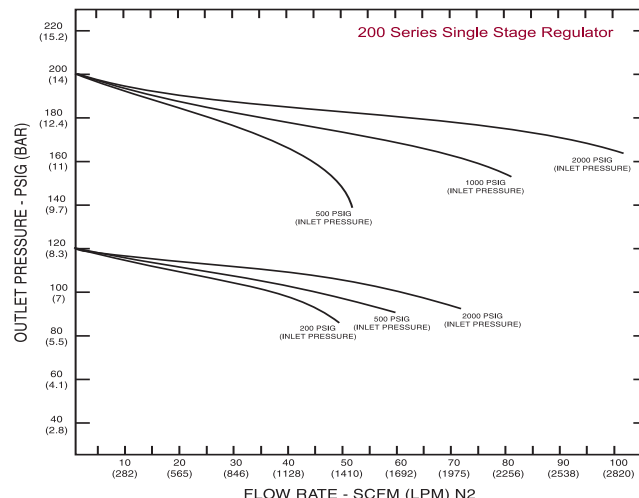
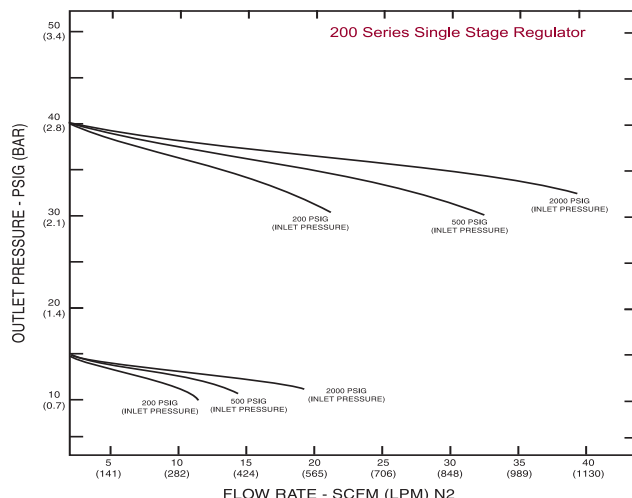
Ports
¼" FPT

Helium Leak Integrity
1 x 10⁻⁸ scc/sec

Cv
0.28

Weight (205-3031-TF4)
3.2 lbs. (1.44 kg)

Flow Performance Curves



Ordering Information *(For information about how to use this table please see page 4.)*

205	A		B	C	D	-Inlet	Options
Series 205	Outlet Pressure	Outlet Gauge	Inlet Gauge	Outlet Assemblies	Assembly/ Gauges	Inlet Connections	Installed Options
	1: 0-15	0-30 psig	0: None	0: ¼" FPT Port	0: Bare Body	000: ¼" FPT	None
	2: 0-40	0-60 psig		1: ¼" MPT	1: Standard Assembly (psig/kPa Gauge)	TF2: ⅛" Tube	
	3: 0-120	0-200 psig		2: ¼" Tube Fitting	2: Standard Assembly (BAR/psig Gauge)	TF4: ¼" Tube	
	4: 0-200	0-400 psig		3: Diaphragm Valve ¼" Tube Fitting	6: Mirror Image Assembly (psig/kPa Gauges)	TF6: ⅜" Tube	
	5: 0-15	0-30 psig with redline for acetylene use		4: Diaphragm Valve ¼" MPT	7: Mirror Image Assembly (BAR/psig Gauges)	M06: 6mm Tube	
				5: Needle Valve ¼" MPT		CGA	
				6: ⅛" Tube Fitting		DIN 477	
				7: ⅜" Tube Fitting		BS 341	
				8: Diaphragm Valve ⅛" Tube Fitting		and others available	