

202 Series

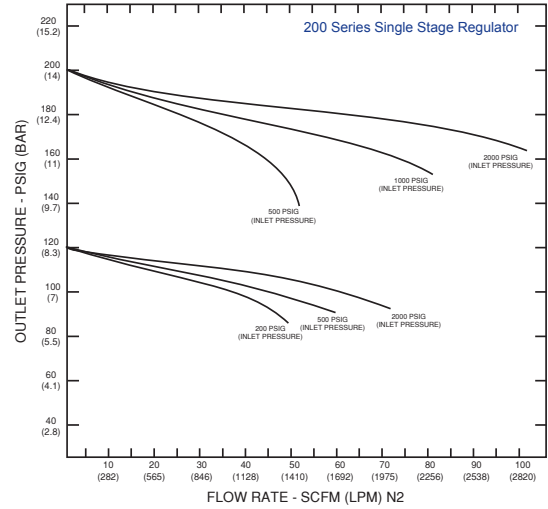
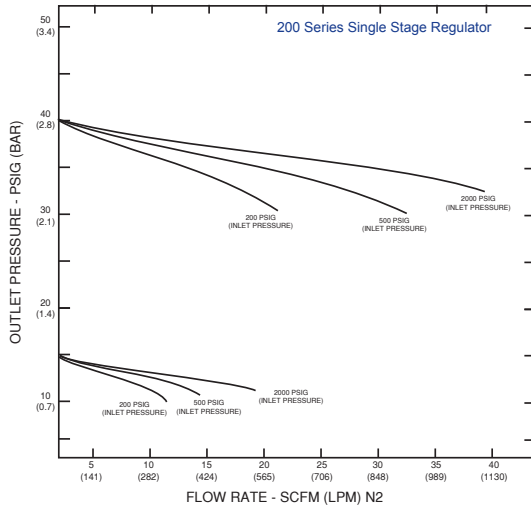
single stage, brass body regulator



Description	Advanced Features	Typical Applications
<p>The 202 Series regulators are intended for primary pressure control of non-corrosive, high purity or liquefied gases (up to grade 4.5) in applications where minor fluctuations in outlet pressure due to diminishing inlet supply pressure can be tolerated.</p>	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • Gas supply purging • Gas system charging • Fuel gas supply control • Calibration gas control • Atomic absorption acetylene

200 Series Advantage	Materials	Specifications
<ul style="list-style-type: none"> • 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 	<p>Body Chrome-plated forged brass</p> <p>Bonnet Chrome-plated die cast zinc</p> <p>Seat PTFE PCTFE with 4500 PSIG inlet option</p> <p>Filter 10 micron sintered bronze</p> <p>Diaphragm 316L stainless steel</p> <p>Internal Seals PTFE</p>	<p>Maximum Inlet Pressure 3000 PSIG (210 BAR) 4500 PSIG (310 BAR) optional</p> <p>Temperature Range -40°F to 140°F (-40°C to 60°C)</p> <p>Gauges 2½" diameter chrome-plated brass</p> <p>Ports ¼" FPT</p> <p>Helium Leak Integrity 1 x 10⁻⁸ scc/sec</p> <p>Cv 0.2</p> <p>Weight (202-3331-580) 3.8 lbs. (1.74 kg)</p>

Flow Performance



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Ordering Information and Configuration Options

202	A		B	C	D	-Inlet	Options
Series 202	Outlet Pressure 1: 0-15* 2: 0-40 3: 0-120 4: 0-200 5: 0-15*	Outlet Gauge 0-30 PSIG 0-60 PSIG 0-200 PSIG 0-400 PSIG 0-30 PSIG with redline for acetylene use	Inlet Gauge 0: None 3: 0-4000 PSIG 5: 0-1000 PSIG 6: 0-400 PSIG 9: 0-600 PSIG	Outlet Assemblies 0: 1/4" FPT Port 1: 1/4" MPT 2: 1/4" Tube Fitting 3: Diaphragm Valve 1/4" Tube Fitting 4: Diaphragm Valve 1/4" MPT 5: Needle Valve 1/4" MPT 6: 1/8" Tube Fitting 7: 3/8" Tube Fitting 8: Diaphragm Valve 1/8" Tube Fitting 9: Diaphragm Valve 1/4" FPT A: 3/8" BSP Right Hand Fitting B: Diaphragm Valve 3/8" Tube Fitting M: 6mm Tube Fitting S: Diaphragm Valve 6mm Tube Fitting	Assembly/ Gauges 0: Bare Body 1: Standard Assembly (PSIG/kPa Gauges) 2: Standard Assembly (BAR/PSIG Gauges)	Inlet Connections 000: 1/4" FPT TF2: 1/8" Tube TF4: 1/4" Tube TF6: 3/8" Tube M06: 6mm Tube CGA DIN 477 BS 341 and others available	Installed Options A: Protocol Alarm Station (110V) B: Protocol Alarm Station (220V) C: Protocol Switchover Station G: Protocol Switchover Station with Alarm (110V) H: Protocol Switchover Station with Alarm (220V) M: Protocol Station T: Tee Purge
	*Not available with 4500 PSIG maximum inlet pressure						

212 Series

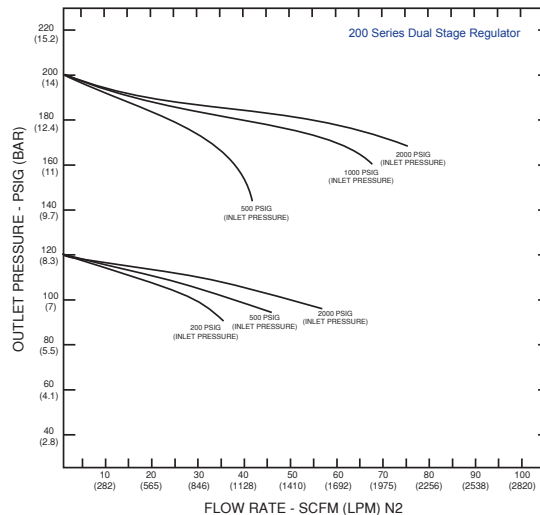
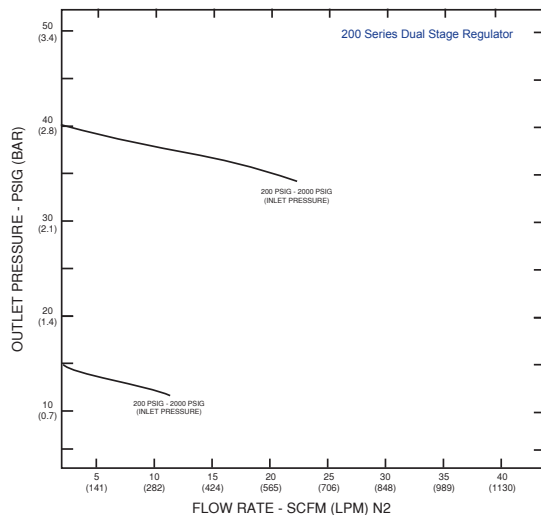
two stage, brass body regulator



Description	Advanced Features	Typical Applications
The 212 Series regulators are intended for primary pressure control of non-corrosive, high purity or liquefied gases (up to grade 4.5) for applications requiring constant pressure control and delivery regardless of supply pressure variations.	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • Gas supply purging • Gas system charging • Fuel gas supply control • Calibration gas control

200 Series Advantage	Materials	Specifications
<ul style="list-style-type: none"> • <i>Capsule® seat</i> Increased serviceability and life • <i>316L stainless steel diaphragm</i> No inboard diffusion • <i>Forged body</i> Durable, long-lasting construction • <i>Field-adjustable pressure limit</i> Safeguard downstream equipment • <i>Large convoluted diaphragm</i> Smooth pressure changes • <i>Standard relief valve</i> Diaphragm and gauge protection 	<p><i>Body</i> Chrome-plated forged brass</p> <p><i>Bonnet</i> Chrome-plated die cast zinc</p> <p><i>Seat</i> PTFE PCTFE with 4500 PSIG inlet option</p> <p><i>Filter</i> 10 micron sintered bronze</p> <p><i>Diaphragm</i> 316L stainless steel</p> <p><i>Internal Seals</i> PTFE</p>	<p><i>Maximum Inlet Pressure</i> 3000 PSIG (210 BAR) 4500 PSIG (310 BAR) optional</p> <p><i>Temperature Range</i> -40°F to 140°F (-40°C to 60°C)</p> <p><i>Gauges</i> 2½" diameter chrome-plated brass</p> <p><i>Ports</i> ¼" FPT</p> <p><i>Helium Leak Integrity</i> 1 x 10⁻⁸ scc/sec</p> <p><i>Cv</i> 0.28</p> <p><i>Weight (212-3331-580)</i> 5.1 lbs. (2.3 kg)</p>

Flow Performance



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Ordering Information and Configuration Options

212	A		B	C	D	-Inlet	Options
Series 212	Outlet Pressure	Outlet Gauge	Inlet Gauge	Outlet Assemblies	Assembly/ Gauges	Inlet Connections	Installed Options
	1: 0-15 2: 0-40 3: 0-120 4: 0-200 5: 0-15	0-30 PSIG 0-60 PSIG 0-200 PSIG 0-400 PSIG 0-30 PSIG with redline for acetylene use	0: None 3: 0-4000 PSIG 5: 0-1000 PSIG 6: 0-400 PSIG 8: 0-6000 PSIG* 9: 0-600 PSIG *Maximum inlet pressure 4500 PSIG (300 BAR) with PCTFE Seat Capsule	0: 1/4" FPT Port 1: 1/4" MPT 2: 1/4" Tube Fitting 3: Diaphragm Valve 1/4" Tube Fitting 4: Diaphragm Valve 1/4" MPT 5: Needle Valve 1/4" MPT 6: 1/8" Tube Fitting 7: 3/8" Tube Fitting 8: Diaphragm Valve 1/8" Tube Fitting 9: Diaphragm Valve 1/4" FPT A: 3/8" BSP Right Hand Fitting B: Diaphragm Valve 3/8" Tube Fitting M: 6mm Tube Fitting S: Diaphragm Valve 6mm Tube Fitting	0: Bare Body 1: Standard Assembly (PSIG/kPa Gauges) 2: Standard Assembly (BAR/PSIG Gauges)	000: 1/4" FPT TF2: 1/8" Tube TF4: 1/4" Tube TF6: 3/8" Tube M06: 6mm Tube CGA DIN 477 BS 341 and others available	A: Protocol Alarm Station (110V) B: Protocol Alarm Station (220V) C: Protocol Switchover Station G: Protocol Switchover Station with Alarm (110V) H: Protocol Switchover Station with Alarm (220V) M: Protocol Station T: Tee Purge* *Not available with 4500 PSIG max inlet pressure

308 Series

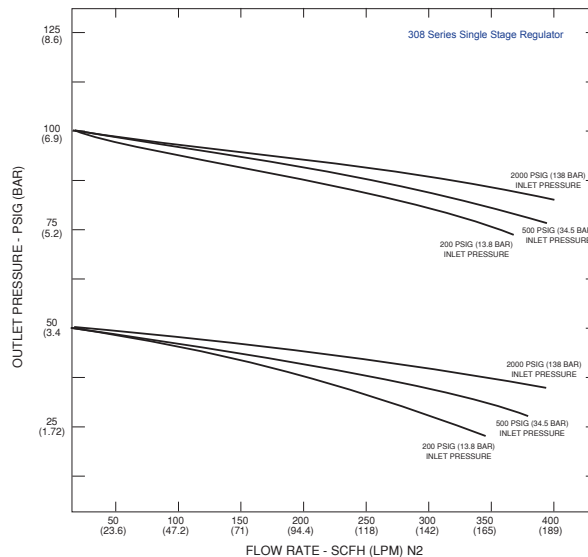
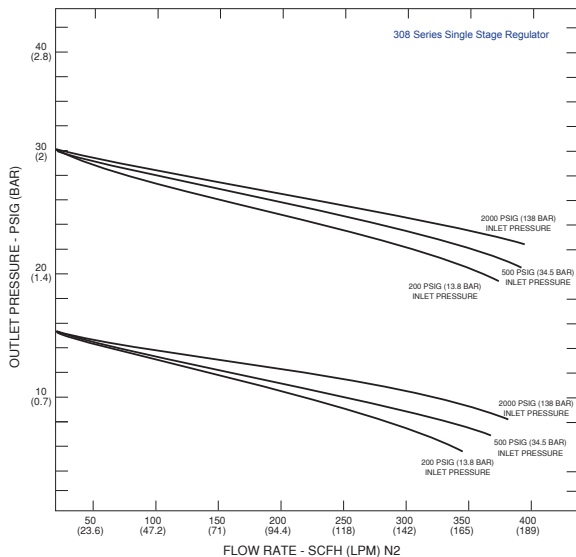
heated, single stage, brass barstock regulator



Description	Advanced Features	Typical Applications
<p>The 308 Series regulators are specifically designed to prevent freeze-up problems associated with high flows of carbon dioxide and nitrous oxide. As CO₂ or N₂O passes through a regulator seat, dry ice can form if the flow is too high, causing the regulator to freeze up.</p>	<ul style="list-style-type: none"> • Chrome-plated brass barstock body Smooth surface finish • Three 50 watt heaters Maintain gas flow up to 350 scfh • 316L stainless steel diaphragm Unaffected by low temperatures 	<ul style="list-style-type: none"> • Chemical storage blanketing • Anaerobic chambers • Inert gas purging • Atomic absorption oxidizer gas • Semiconductor reactor furnace • Inductively coupled plasma systems • Ph control

300 Series Advantage	Materials	Specifications
<ul style="list-style-type: none"> • <i>Capsule® seat</i> Increased serviceability and life • <i>316L stainless steel diaphragm</i> No inboard diffusion • <i>Low wetted surface area</i> Minimal purge requirements • <i>Field-adjustable pressure limit</i> Safeguard downstream equipment • <i>Convolute diaphragm</i> Smooth pressure changes • <i>Compact design</i> Easily transported and integrated 	<p><i>Body</i> Chrome-plated brass barstock</p> <p><i>Bonnet</i> Chrome-plated die cast zinc</p> <p><i>Seat</i> PTFE</p> <p><i>Filter</i> 10 micron sintered bronze</p> <p><i>Diaphragm</i> 316L stainless steel</p> <p><i>Internal Seals</i> PTFE</p>	<p><i>Maximum Inlet Pressure</i> 3000 PSIG (210 BAR)</p> <p><i>Temperature Range (Thermostat)</i> 95°F to 120°F (35°C to 49°C)</p> <p><i>Heaters</i> 3 @ 50 watts each (110 or 220 VAC)</p> <p><i>Gauges</i> 2" diameter chrome-plated</p> <p><i>Ports</i> 1/4" FPT</p> <p><i>Helium Leak Integrity</i> 1 x 10⁻⁸ scc/sec</p> <p><i>Cv</i> 0.1</p> <p><i>Weight (308-3031-320)</i> 5.4 lbs. (2.45 kg)</p>

Flow Performance



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Ordering Information and Configuration Options

308	A		B	C	D	-Inlet	Options
Series 308	Outlet Pressure 1: 0-15 2: 0-30 3: 0-50 5: 0-100	Outlet Gauge 0-30 PSIG 0-60 PSIG 0-100 PSIG 0-200 PSIG	Inlet Gauge 0: None 3: 0-4000 PSIG	Outlet Assemblies 0: 1/4" FPT Port 1: 1/4" MPT 2: 1/4" Tube Fitting 3: Diaphragm Valve 1/4" Tube Fitting 4: Diaphragm Valve 1/4" MPT 5: Needle Valve 1/4" MPT 6: 1/8" Tube Fitting 7: 3/8" Tube Fitting 8: Diaphragm Valve 1/8" Tube Fitting 9: Diaphragm Valve 1/4" FPT A: 3/8" BSP Right Hand Fitting M: 6mm Tube Fitting S: Diaphragm Valve 6mm Tube Fitting	Assembly/ Gauges 0: Bare Body 110 VAC 1: Standard Assembly 110 VAC (PSIG/kPa Gauges) 2: Bare Body 220 VAC 3: Standard Assembly 220 VAC (PSIG/kPa Gauges) 4: Standard Assembly 110 VAC (BAR/PSIG Gauges) 5: Standard Assembly 220 VAC (BAR/PSIG Gauges)	Inlet Connections 000: 1/4" FPT TF2: 1/8" Tube TF4: 1/4" Tube TF6: 3/8" Tube M06: 6mm Tube CGA DIN 477 BS 341 and others available	Installed Options M: Protocol Station