

601 Series Regulator

M² Technology

Dual Stage

Brass Barstock Body

316L Stainless Steel

Diaphragm



601-23M4 shown

Advanced Features

The 601 Series dual-stage regulator was designed with beam-mode quality in mind. The 601 offers M² technology that virtually eliminates atmospheric contamination during a cylinder change. Low level moisture and hydrocarbon contents yield a more stable emission and higher resonator efficiencies which makes the 601 Series the right choice.

- *Machined Brass Barstock Body*
Smooth surface finish
- *Low Wetted Surface Area*
Minimal purge requirements
- *Convuluted 316L Diaphragm*
No inboard diffusion
- *Optional Integral Purge*
Eliminates atmospheric contamination
- *10-Micron Filtration in Both Stages*
Reduces particle contamination
- *Optional CGA Check Valve*
Minimizes atmosphere exposure
- *Optional Pressure Cycle Purge*
Eliminates dead-space contaminate
- *Capsule Seat*
Increase serviceability and life

Applications

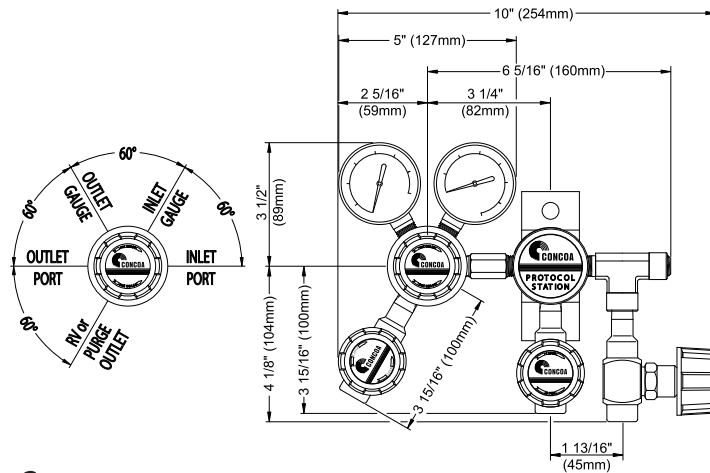
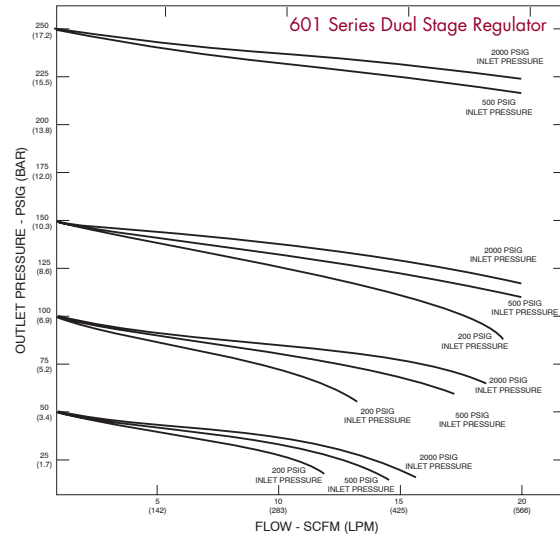
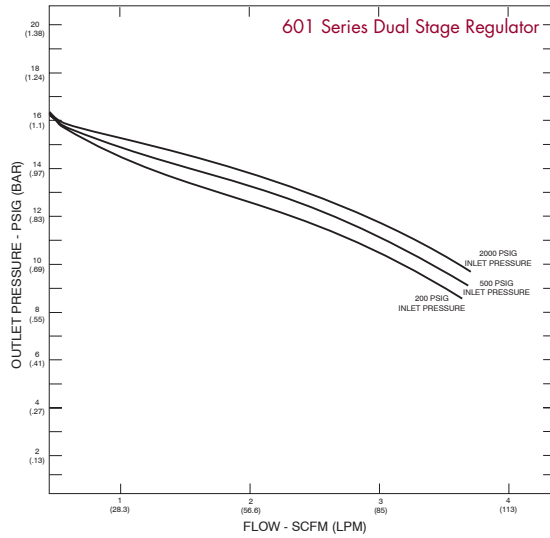
<p><i>Laser Pure Resonator Gases</i></p> <ul style="list-style-type: none"> Helium Nitrogen Carbon Dioxide <p><i>Laser Mixed Resonator Gases</i></p> <ul style="list-style-type: none"> Three gas premix Four gas premix Five gas premix <p><i>Laser Purging Gases</i></p> <ul style="list-style-type: none"> Zero Air Nitrogen <p><i>Maintenance Gases</i></p> <ul style="list-style-type: none"> Nitrogen 	<p><i>Body</i></p> <p>Machined brass barstock</p> <p><i>Bonnet</i></p> <p>Chrome-plated die cast zinc</p> <p><i>Seat</i></p> <p>PTFE</p> <p><i>Filter</i></p> <p>10-micron sintered bronze</p> <p><i>Diaphragm</i></p> <p>316L stainless steel</p> <p><i>Internal Seals</i></p> <p>PTFE</p>	<p><i>Maximum Inlet Pressure</i></p> <p>3,000 PSIG (210 BAR) 4,500 PSIG (310 BAR)</p> <p><i>Temperature Range</i></p> <p>-40 to 140°F (-40 to 60°C)</p> <p><i>Gauges</i></p> <p>2" diameter dual scale</p> <p><i>Ports</i></p> <p>1/4" FPT</p> <p><i>Helium Leak Integrity</i></p> <p>1 x10⁻⁸ scc/sec</p> <p><i>Cv</i></p> <p>0.1</p> <p><i>Weight</i></p> <p>4.8 lbs. (2.16 kg)</p>
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CONCOA

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Flow Performance Curves



Shown with optional purge and laser gas switchover station.

Ordering Information

601	A	B	C	D	Inlet	Options
Series 601	Outlet Pressure 1: 0-50 PSIG 2: 0-100 PSIG 3: 0-150 PSIG 4: 0-250 PSIG	Outlet Gauge 0: None 3: 0-4000 PSI 8: 0-6000 PSI*	Inlet Gauge 0: 1/4" FPT Port 1: 1/4" MPT 2: 1/4" Tube Fitting 6: 1/8" Tube Fitting 7: 3/8" Tube Fitting A: 3/8" BSP Right Hand Fitting M: 6mm Tube Fitting	Assembly/ Gauges 0: Bare Body 1: Standard Assembly (PSI/kPa Gauges) 2: Standard Assembly (BAR/PSI Gauges) 3: Integral Purge (PSI/kPa Gauges) 4: Integral Purge (BAR/PSI Gauges) 5: Integral Purge with Fitting* (PSI/kPa Gauges) 6: Integral Purge with Fitting* (BAR/PSI 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: Laser Gas Station Alarm (110V) C: Laser Gas Switchover Station M: Laser Gas Station N: Regulator CGA Check Valve Gland P: Inlet Pressure Cycle Purge
		*Alarm option not available		*Fitting matches outlet assembly		