

ATTN: MONICA

FROM: JASON

402 Series Regulator

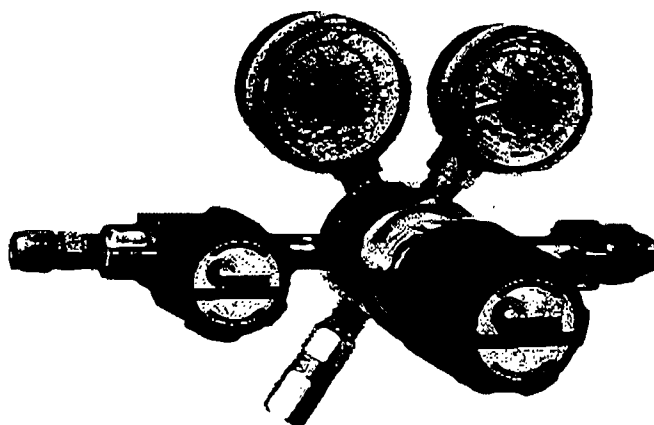
Single Stage

Brass Barstock Body

*Six-Port
Configuration*

316L Stainless Steel

Diaphragm



Typical Applications

- Gas and liquid chromatography
- High purity carrier gases
- Zero, span, and calibration gases
- High purity chamber pressurization
- Liquefied hydrocarbon gas control
- Control of cryogenic gases

Advanced Features

- Brass barstock body
Smooth surface finish
- Front and rear panel mountable
Versatile system configuration
- Pressure ranges 0-15 to 0-500 PSIG
Broad range of applications

The 402 Series regulators are intended for primary pressure control of noncorrosive, high purity or liquefied gases or for applications where minor fluctuations in outlet pressure due to diminishing inlet supply can be tolerated.

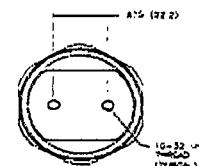
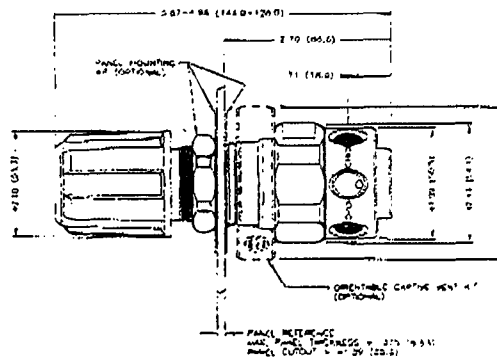
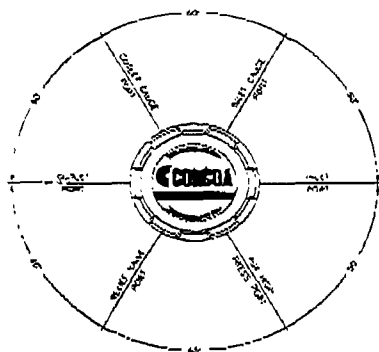
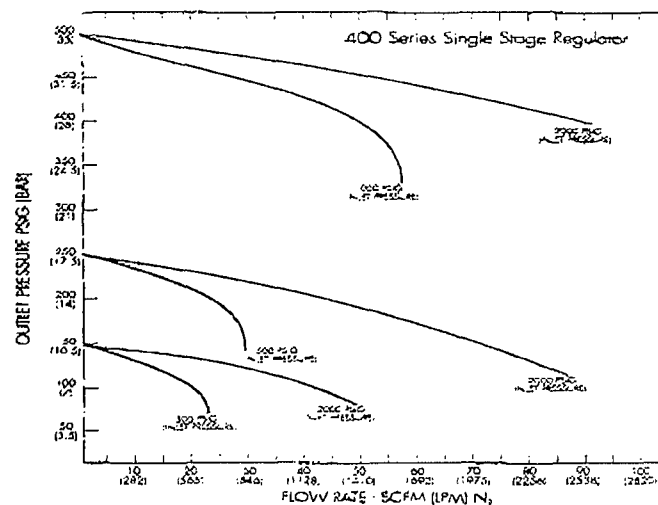
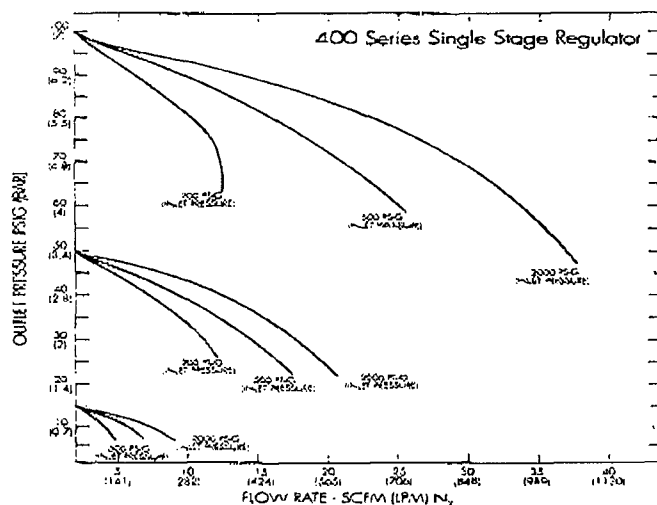
400 Advantage

Materials

Specifications

<ul style="list-style-type: none"> • <i>Metal-to-metal diaphragm seal</i> No possibility of gas contamination • <i>Capsule® seat</i> Increased serviceability and life • <i>316L stainless steel diaphragm</i> No inboard diffusion • <i>Orientable captured vent capable</i> Safety in any installation • <i>Low wetted surface area</i> Minimal purge requirements • <i>Field-adjustable pressure limit</i> Safeguard downstream equipment • <i>Pipe away relief valve</i> Safely vent exhaust gases • <i>Delivery pressure range easily changed</i> Maximum flexibility 	<p><i>Body</i> Brass barstock</p> <p><i>Bonnet</i> Brass barstock</p> <p><i>Seat</i> PTFE Teflon® Kel-F® w/ 5500 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 Teflon®</p>	<p><i>Maximum Inlet Pressure</i> 3000 PSIG (210 BAR) 5500 PSIG (380 BAR) optional</p> <p><i>Temperature Range*</i> -40°F to 140°F (-40°C to 60°C)</p> <p><i>Gauges</i> 2" diameter brass</p> <p><i>Ports</i> ¼" FPT</p> <p><i>Helium Leak Integrity</i> 1 x 10⁻⁹ scc/sec</p> <p><i>Cv</i> 0.1</p> <p><i>Weight</i> 3.8 lbs. (1.71 kg)</p> <p><small>*With CGA connections, please see page 8.</small></p>
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Flow Performance Curves



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

402-	A		B	C	D	CON
Series 402	Outlet Pressure 1: 0-15"	Outlet Gauge 30"-0-30 PSIG	Inlet Gauge 0: None 3: 0-4000 PSIG 5: 0-1000 PSIG 6: 0-300 PSIG 7: 0-400 PSIG 8: 0-6000 PSIG"	Outlet Assemblies 0: 1/4" FPT Port 1: 1/4" MPT 2: 1/4" Tube Fitting 3: <u>Diaphragm Valve 1/4" Tube Fitting</u> 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	Assembly/Gauges 0: Bare Body 1: Standard Assembly (PSI/kPA Gauges) 2: Standard Assembly (BAR/PSI Gauges) 4: Cleanroom Assembly (PSI/kPA Gauges) 5: Cleanroom Assembly (BAR/PSI Gauges)	Connections CGA DIN 477 BS 341 and others available <i>Please refer to page 8 for more information about connections.</i>
	*not available with 5500 PSIG inlet pressure		*Maximum inlet pressure 5500 PSIG (380 BAR) with Kel-F [®] Seal Capsule [®] .			

Related Options

Option	Order No.	Description
Panel Mount Kit	550-0002	To mount the regulator using bonnet threads. Material: Nickel-plated brass
Captured Vent Kit	550-0001	360° orientation for easy piping of vented gases to a safe location in the event of diaphragm failure. Material: Nickel-plated Brass
Helium Leak Certification Protocol Station	476-0002	Inboard Helium leak certification to less than 1×10^{-9} cc/sec
Deep Purge	Add letter "M" after CGA 502-3007	Convenient regulator wall mount, including tee, bracket, and flexible stainless steel pigtail with check valve in the inlet gland For installation between the regulator and cylinder to assure complete purging

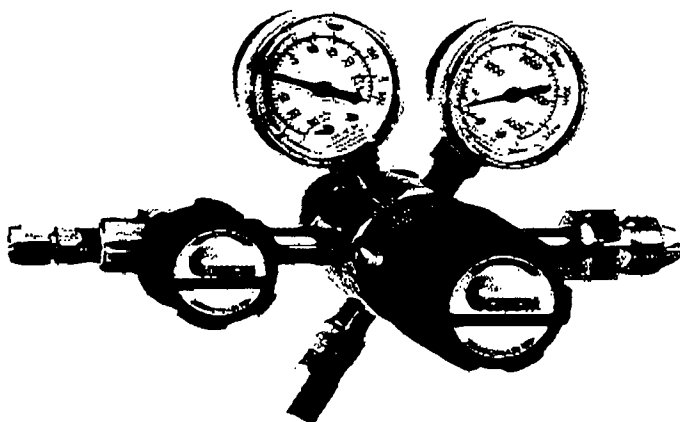
432 Series Regulator

Dual Stage

*316L Stainless Steel
Barstock Body*

*Six-Port
Configuration*

*316L Stainless Steel
Diaphragm*



The 432 Series regulators are intended for primary pressure control of ultrahigh purity or corrosive gases for applications requiring constant pressure control and delivery regardless of supply pressure variations.

Typical Applications

- EPA Protocol gases
- Gas and liquid chromatography
- High purity carrier gases
- Zero, span, and calibration gases
- High purity chamber pressurization

Advanced Features

- 316L stainless steel barstock body
Increased corrosion resistance
- Front panel mountable
Easy installation
- 10 micron filtration in both stages
Fail-safe seat performance
- Pressure ranges 0-15 to 0-250 PSIG
Broad range of applications

400 Advantage

Materials

Specifications

<ul style="list-style-type: none"> • <i>Metal-to-metal diaphragm seal</i> No possibility of gas contamination • <i>Capsule® seas</i> Increased serviceability and life • <i>316L stainless steel diaphragm</i> No inboard diffusion • <i>Orientable captured vent capable</i> Safety in any installation • <i>Low wetted surface area</i> Minimal purge requirements • <i>Field-adjustable pressure limit</i> Safeguard downstream equipment • <i>Pipe away relief valve</i> Safely vent exhaust gases • <i>Delivery pressure range easily changed</i> Maximum flexibility 	<p><i>Body</i> 316L stainless steel barstock</p> <p><i>Bonnet</i> Chrome-plated brass barstock</p> <p><i>Seat</i> PTFE Teflon® Kel-F® w/ 5500 PSIG inlet option</p> <p><i>Filter</i> 10 micron sintered 316L stainless steel</p> <p><i>Diaphragm</i> 316L stainless steel</p> <p><i>Internal Seals</i> PTFE Teflon®</p>	<p><i>Maximum Inlet Pressure</i> 3000 PSIG (210 BAR) 5500 PSIG (380 BAR) optional</p> <p><i>Temperature Range*</i> -40°F to 140°F (-40°C to 60°C)</p> <p><i>Gauges</i> 2" diameter stainless steel</p> <p><i>Ports</i> 1/4" FPT</p> <p><i>Helium Leak Integrity</i> 1 x 10⁻⁹ scc/sec</p> <p><i>Cv</i> 0.1</p> <p><i>Weight</i> 5.4 lbs. (2.43 kg)</p> <p><small>*With CGA connections, please see page 8.</small></p>
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Flow Performance Curves

