

420 & 430 Series Single and Dual Stage SilcoNert® 2000 Regulators



4203331-01-330 shown

All wetted components of the 420 and 430 Series single and dual stage regulators feature a non-reactive, amorphous silicon finish. This proprietary surface finish provides excellent inertness for reactive calibration standards and significantly improved corrosion resistance over bare 316L stainless steel or other more expensive alloys.

Advanced Features

- SilcoNert® 2000 barstock body
- Dursan® diaphragm
- Front and rear panel mountable
- Metal-to-Metal diaphragm seal
- Pressure ranges 0-15 to 0-500 PSIG
- 1 x 10⁻⁹ scc/sec helium leak integrity

Typical Applications

- Continuous emission monitoring
- Environmental stack gas emission standards
- Low level sulfur analysis (ppb H₂S, SO₂, COS)
- Low level mercury and HCl analysis
- Reactive or corrosive gases
- Off-shore platform systems
- Corrosive and salt water exposure

SilcoNert® is a registered trademark of SilcoTek Corporation.
Dursan® is a registered trademark of SilcoTek Corporation.

538 Series IntelliSwitch™ II Fully Automatic Switchover System



538D007-01-001 shown

The IntelliSwitch II offers continuous pressure and flow control from liquid or high pressure cylinder sources. The end-user selects the current mode of supply on the fly by the simple push of a button. Proprietary software logic lowers yearly gas costs by eliminating liquid cylinder vent loss and excess residual return. An onboard web and e-mail server allows easy telemetry via the Internet.

Advanced Features

- NEMA 4 enclosure
- Internal delivery pressure adjustment
- Proprietary economization algorithm
- Enhanced operating software
- Expanded system diagnostics and troubleshooting
- Remote monitoring, email capability and parameter settings via web server

Typical Applications

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

577 Series CryoWiz™ Liquid Cryogenic Switchover System



5771113-01-100 with real-time monitoring webserver shown

The CONCOA CryoWiz delivers a continuous supply of liquid nitrogen from a primary and secondary supply automatically with no temperature change. The CryoWiz uses a proprietary algorithm and precise pressure and temperature sensors to monitor the demand for and supply of the liquid nitrogen. With a unique insulated switching mechanism, high flow pneumatic valves, and hot gas bypass programming, the CryoWiz automatically switches sources with virtually no change in delivered cryogenic temperature.

Advanced Features

- Insulated switching mechanism
- High flow pneumatic control valves
- Hot gas bypass
- Single compact NEMA 12 enclosure
- Onboard web and mail server
- Oxygen deficiency relay contact

Typical Applications

- Subambient gas chromatography
- Cryopreservation
- Control rate freezers
- Environmental chambers
- Cryogenic research

302 Series Single Stage Brass Ultra High Purity Regulator



3022331-01-580 shown

The 302 Series regulators are intended for primary pressure control of non-corrosive, high purity or liquefied gases (up to grade 5.5) or for applications where minor fluctuations in outlet pressure due to diminishing inlet supply can be tolerated.

Advanced Features

- Chrome-plated brass barstock body
- 316L stainless steel diaphragm
- Compact design
- Rear panel-mountable
- Pressure ranges 0-15 to 0-500 PSIG
- 1 x 10⁻⁸ scc/sec helium leak integrity

Typical Applications

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

312 Series Dual Stage Brass Ultra High Purity Regulator



3122331-01-580 shown

The 312 Series regulators are intended for primary pressure control of non-corrosive, high purity or liquefied gases (up to grade 5.5) for applications requiring constant pressure control and delivery regardless of supply pressure variations.

Advanced Features

- Chrome-plated brass barstock body
- 316L stainless steel diaphragms
- Compact design
- Stable outlet pressure
- Pressure ranges 0-15 to 0-250 PSIG
- 1 x 10⁻⁸ scc/sec helium leak integrity

Typical Applications

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

432 Series Dual Stage Stainless Steel Ultra High Purity Regulator



4323331-01-580 shown

The 432 Series regulators are intended for primary pressure control of ultra-high purity, toxic, or corrosive gases (up to grade 6.0+) for applications requiring constant pressure control and delivery regardless of supply pressure variations.

Advanced Features

- 316L stainless steel barstock body
- 316L stainless steel diaphragms
- Pipe-away relief valve
- Metal-to-metal seals
- Stable outlet pressure
- Pressure ranges 0-15 to 0-350 PSIG
- 1 x 10⁻⁹ scc/sec helium leak integrity

Typical Applications

- Toxic and corrosive gases
- Research grade gases
- EPA Protocol standards
- Gas and liquid chromatography
- Ultra-high purity carrier gases
- Zero, span, and calibration gases
- Ultra-high purity chamber pressurization

212 Series Dual Stage High Purity General Purpose Regulator



2121351-01-580 shown

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.

Advanced Features

- Chrome-plated forged brass body
- High flow capacity
- Pressure ranges 0-15 to 0-200 PSIG
- Extremely stable outlet pressure

Typical Applications

- Gas supply purging
- Gas system charging
- AA fuel gas supply control
- Calibration gas control

492/493 Series High Pressure Regulator



4924851-01-680 shown

The 492 Series chrome-plated brass and 493 Series stainless steel regulators are intended for primary pressure control of non-corrosive gases at a maximum inlet pressure of 6000 PSIG.

Advanced Features

- Chrome-plated brass or stainless steel barstock body
- Front and rear panel-mountable
- Pressure ranges 0-750 to 0-6000 PSIG
- Six-port configuration design
- Metering valve outlet option

Typical Applications

- R&D laboratories
- Chemical manufacturing
- Pharmaceutical manufacturing
- Gauge calibration

325 Series Chrome-Plated Brass Lecture Bottle Regulator



3253351-01-180 shown

The 325 Series chrome-plated brass regulators are specifically designed for use with non-corrosive gases in lecture bottles. (The 322 Series stainless steel regulators may be used with mildly corrosive gases in lecture bottle applications.)

Advanced Features

- Chrome-plated brass barstock
- Low droop
- 1½ pressure gauges

Typical Applications

- University classrooms
- University laboratories
- Chemical research

206 Series Single Stage Liquid Cylinder Regulator



2063001-01-580 shown

The 206 Series chrome-plated forged brass body regulators are intended for primary pressure control of gases supplied from cryogenic liquid cylinders. Though optimized for flow with liquid cylinders, the regulators are rated to 3000 PSIG for safe use in high pressure applications.

Advanced Features

- Chrome-plated forged brass body
- 316L stainless steel diaphragm
- 1x10⁻⁸ scc/sec helium leak integrity

Typical Applications

- Laboratory liquid cylinders
- ICP, ICP-MS, and mass spectrometers
- Liquid reserve systems

Oxygen Deficiency Alarm



The 3004 Series Oxygen Deficiency Alarm monitors oxygen levels in any area where inert gases or confined space may produce hazardous reduction in the oxygen content of the air.

Advanced Features

- NEMA 4x enclosure
- Operating temperatures -40 to 55°C
- Long-lasting zirconium sensor

Typical Applications

- Cryopreservation facilities
- Laboratories
- Liquefied or compressed gas storage areas

More Products and Information Available at www.CONCOA.com

526/527 Series Automatic Switchover



526702G-01-001 switchover with optional Altos 2 Cylinder Pressure alarm shown

The 526 Series brass and 527 Series stainless steel switchovers are designed to supply a continuous supply of high purity gas (up to grade 6.0+). The system comes with either flexible hoses for use with two cylinders or manifold connectors for use with the Maniflex Modular Manifold System. Due to pressure differential considerations, an integral line regulator is available to maintain constant downstream pressure.

315 Series Dual Stage Medical Laboratory Regulator



3158381-01-M1D shown

The 315 Series regulators are specifically designed for use on cylinders with medical "E" or "D" post valve connections in clinical gas applications requiring constant pressure control and delivery regardless of supply pressure variations. These regulators, as well as the 305 Series single stage version, can also be ordered with standard CGA connections for larger cylinders.

Custom Calibration

In addition to a standard 2-15 lpm flow gauge for CO₂, CONCOA also offers a custom 2-15 lpm calibration for any non-corrosive gas or mixture. The outlet orifice is sized to the flow requirement for a specific gas using a thermal mass flowmeter.

Cabinets



C1-2023331-580M

The CONCOA C Series Gas Cabinet Systems safely deliver high purity gases that pose a hazard due to their properties or location. Available in a variety of configurations to contain up to four cylinders along with pressure, flow, and safety equipment, CONCOA C Series Gas Cabinet Systems enable safe, reliable, and compliant use of flammable, pyrophoric, toxic, corrosive or oxidizing gases. For example, these systems can ease the transition to hydrogen use for analysis by providing a safe source within the laboratory. C Series Gas Cabinet Systems can also be configured with automated safety control systems for toxic or corrosive gases like hydrogen sulfide or carbon monoxide that include gas detection, excess flow shutdown, and emergency shutdown controllers to meet specific regulatory or facility safety requirements.

565 Series 65mm Flowmeter



5655111-01-HB4 shown

The 565 Series 65mm variable area flowmeters offer inherent simplicity, versatility, and economy in a precision flow instrument. The compact size of the 65mm scale is preferred in industrial panel-mounting applications and for direct mounting to a pressure regulator. Flow readings from the millimeter scale are converted to actual flow. CONCOA offers a wide variety of flowtube and float combinations to provide the optimum flow range for any application.

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