



MANIFOLD SOLUTIONS DELIVER
Performance
Reliability
Results



Corporate Office: 1501 Harpers Road • Virginia Beach, Virginia 23454 USA • 1.800.225.0473 • Fax 757.422.3125
CONCOA WORLDWIDE: NORTH AMERICA • SOUTH AMERICA • EUROPE • ASIA

Industrial

Laser

Specialty

www.concoa.com

Industrial

IntelliSwitch 640/641



Features

- High Flow, Fully Automatic Switchover
- Liquid-Liquid, Liquid-High Pressure or High Pressure-High Pressure Mode
- Electronic Economizer Eliminates Liquid Cylinder Vent Loss
- Micro-Processor Reduces Liquid Cylinder Residual Return Losses

Industrial 640

Laser 641

✓	✓
✓	✓
✓	✓
✓	✓
200 psi Max Delivery	400 psi Max Delivery
Maximum Inlet Pressure 3,000 psi	Maximum Inlet Pressure 4,500 psi

Industrial 632



Features

- Simple priority valve bank assignment ensures fail-safe operation
- Flexible Supply Modes:
High Pressure - High Pressure
Liquid Primary - High Pressure
- Balanced-stem line regulator enables stable pressure control at high flows
- Optional integrated four cylinder manifold provides simple field expandability

Applications

The 632 series pressure differential switchover provides a cost effective solution for industrial high flow applications. The 632 delivers up to 120 psi output at flow rates exceeding 5,000 cfh. For inlet pressures ranging from 90 to 4,500 psi the 632 delivers the industries most reliable performance.

Industrial 631



Features

- Liquid or high-pressure cylinder service allows for the most cost effective mode of supply.
- Integrated pigtail header valve isolates cylinders for maximum safety
- Integrated regulator for pressure control up to 200 psi enables maximum flexibility
- Balanced stem line regulator delivers stable pressure control at high flows

Applications

The 631 series industrial manifold provides steady pressure control from multiple cylinders. Like the 632, optional flashback arrestors are standard for acetylene welding, cutting and heating applications ensuring maximum safety.

BlendMaster 1000 652 Series



Features

- Pressure equalization technology maintains mix accuracy under fluctuating supply conditions
- 0-100% Ratio Adjustment ensures 1,000 CFH for all mixes
- Gas piloted dual dome technology maintains mix accuracy by eliminating pressure decay at high flows
- Balanced stem line regulator delivers stable pressure control at high flows

Applications

The BlendMaster 1000 series mixer precisely blends binary mixtures for the metal fabrication industry. Carbon dioxide, helium and oxygen minor component mixes are consistently delivered to those industrial applications requiring repeatability and control. Available in wall or floor mount and 120 volt or 220 volt configuration the Blendmaster 1000 delivers the flexibility that yields a low cost of ownership.

Laser

Laser 639 Series



Features

- Primary-reserve bank assignment assures continuous supply
- Flow rate exceeds 9,000 cfh, ideal for intermittent, thick stainless steel cutting
- Compatible with Advantium alarms, which provide audible and visual notification
- 3,000 and 4,500 psi Inlet options enhance high-volume cylinder performance

Applications

639 Series pressure differential switchover delivers a continuous supply of assist gas without pressure fluctuation. Mounted on a stainless panel the primary-reserve system delivers up to 9,000 cfh from high-pressure cylinder service. Incorporating 40-micron filters and balanced stem seat line regulators the 639 series delivers the performance needed to cut thick materials.

Laser 630 Series



Features

- Pipe away relief prevents over-pressurization
- Extended stem isolation valve allows for positive shut-off under extreme temperatures
- Spring-loaded check valves prevent excess flash loss
- Modular design offers simple field expandability
- Stainless panel-mounted design enables wall or portable mounting
- Optional auxiliary pressure building kit maintains 450 psi in excess of 4000 cfh

Applications

The 630 series manifold when coupled with the 629 vent kit enables the user to extend the flow range of common liquid cylinders up to four times the rated gaseous flow capacity. Rated up to 600 psi MWP the 630 has the flexibility to optimize 230, 350 as well as 500 psi rated liquid cylinders. This solution is ideal for laser, furnace blanketing and other high-flow applications.

Laser 620 Series



Features

- Simple priority valve bank assignment allows fail-safe operation
- Inlet block/bleed purge option eliminates atmosphere contamination
- 36" stainless core hose with CGA check valve minimizes atmosphere exposure
- Compatible with Advantium alarms to provide audible and visual notification

Applications

620 Series is a semi-automatic pressure differential switchover that delivers a continuous supply of resonator gas without compromising purity. Mounted on a stainless panel the brass barstock regulator configuration maintains a 1×10^{-8} He cc/sec leak integrity. This coupled with stainless diaphragms and internal 10-micron filtration makes the 620 Series the right choice for today's laser resonators.

Laser 621 Series



Features

- Internal stainless tubing and compression fittings offer the highest level of leak integrity
- Simple priority valve bank assignment allows fail-safe operation
- Inlet block/bleed purge option eliminates atmosphere contamination
- 36" stainless core hose with CGA check valve minimizes atmospheric exposure

Applications

621 Series is a semi-automatic pressure differential switchover housed in an enclosure, which delivers a continuous supply of resonator gas without compromising purity. When powered by an Advantium alarm the onboard LEDs indicate cylinder bank status. The 621 incorporates internal stainless diaphragms, 10-micron filtration and optional adjustable pressure switch gauges making the 621 Series the best choice for demanding laser resonator applications.

Specialty Gas

IntelliSwitch 539 Series



Features

- High Flow, Fully Automatic Switchover
- High Purity Brass Barstock ensures purity levels of Instrument Process or Carrier Gases
- RS 232 or 485 Communications for remote monitoring or alarm interface.
- Microprocessor controlled/ Fully Automatic Function incorporates Low Loss Economizer and Look-Back features that save money.
- Field Adjustable parameters allow for system expansion, gas source selection, and process changes.

Applications

The 539 Series IntelliSwitch provides an uninterrupted supply of Carrier or Process Gases from High Pressure or Cryogenic liquid cylinders. Operators of Gas Chromatographs or ICPMS's can lower their gas costs by 20%. The IntelliSwitch's Low Loss technology reduces residual return and vent loss. The microprocessor control and RS 232 or 485 communication ports allow for true gas management and monitoring.

Automatic Switchover 526/527 Series



Features

- Automatic Switchover Systems for High Purity Gases
- 526 Series for noncorrosive gases or 316L Stainless Steel and 527 Series for corrosive gases.
- Continuously supplies High Purity Gases for instrumentation or chemical processes.
- Optional Line regulator maintains consistent line pressure.
- Checkvalves in pigtail inlets maintain gas purity.
- Available with or without remote alarm capability.

Applications

The 526/527 Series Switchovers can continuously supply high purity gases for instrumentation or process applications. This compact design can be used with as few as two cylinders or with a Maniflex Manifold, any number of cylinders. The optional line regulator maintains a constant line pressure. Compatible with corrosive or noncorrosive gases they are versatile and dependable, ideal for any laboratory, pharmaceutical, or critical process application.

AutoSwitch 522/523 Series



Features

- High Purity Automatic Switchover system for Laboratory or process applications.
- Available in Brass 522 Series or 316L Stainless Steel 523 Series for corrosive gases
- Automatically switches to reserve supply with no change in line pressure due to integral line regulator.
- Integral Maniflex Manifold System allows for easy installation and expansion.
- Optional remote alarm and RS232 port allow for system monitoring of critical gases.
- Entire unit in weatherproof enclosure.

Applications

The 522/523 Series Autoswitch are Ideal to supply high purity gases for any laboratory, instrumentation, or process application. Made with high purity Brass or 316L Stainless Steel barstock the 522 or 523 can deliver an uninterrupted supply of corrosive or noncorrosive gases with no variations in line pressure up to 350psig with flows up to 600 scfh.

Generator Backup 540 Series



Features

- Automatic activation in the event of power loss or generator failure ensures an uninterrupted gas supply
- Available for Hydrogen/Air/Nitrogen in High Purity Brass or 316L Stainless Steel Construction
- Adjustable switchover pressure allows the user to determine when reserve activates
- User settable remote alarm option
- Check valves prevent backflow of gas to generator or reserve
- Manual ¼ turn Shut-off valves allow isolation and service on either line

Applications

The 540 Series Generator Back-Up Panel provides a fail-safe reserve supply to gas generators. The users of Hydrogen, Air, or Nitrogen generators can be assured of an uninterrupted supply of critical gases to their instrumentation or processes with user determined activation and alarm points. If there is a power loss or the generator fails to supply sufficient gas, the reserve automatically activates. When the generator supply is reestablished, the reserve will automatically shut down.