526 CD SERIES

Switchover
The 526 Series Switchover is an automatic switchover system designed to supply high purity Carbon Dioxide or Nitrous Oxide continuously. Integral heaters in the line regulator ensure a high flow of inert gases that are prone to freezing due to flow or Joule-Thomson effect. Unlike a separate device attached at the inlet or inlet, applying heat directly to the regulator eliminates the possibility of dry ice particulate forming in the seat and interrupting supply.

Typical Applications
- Cell culture incubators
- Atomic absorption grade Nitrous Oxide
- Bioreactors
- Beverage supply and analysis
- Modified atmosphere packaging
- Carbon Dioxide buffer reactions

Features
- 400/308 Series Brass Barstock Regulators
  - CAPSULE® seat
- Metal-to-Metal Diaphragm Seal
  - No possibility of gas contamination
- User-Friendly
  - One knob switches cylinder priority
- Check Valves in Hose Inlet Glands
  - Prevents contamination and back flow
- Compatible with Maniflex Manifolds
  - Multiple cylinders per side
- Three 50-Watt Heaters
  - Maintain gas flow without freezing or particulate formation
- Optional Remote Alarm
  - Easy integration with Altos system
  - CE marked universal voltage alarm
- Optional Purge Valves
  - Allows purging after cylinder change over
- Optional Outlet Valve
  - Allows isolation of pipeline

Materials
- Bodies
  - Brass barstock (inlet regulators)
  - Chrome-plated brass barstock (line regulator)
- Diaphragms
  - 316L stainless steel
- Seats
  - PCTFE (inlet regulators)
  - PTFE (line regulator)
- Filters
  - 25 micron sintered bronze
- Internal Seals
  - PTFE

Specifications
- Maximum Inlet Pressure
  - 3000 PSIG (210 BAR)
- Temperature Range (Thermostat)
  - 95°F to 120°F (35°C to 49°C)
- Heaters
  - 3 @ 50 watts each (110 or 220 VAC)
- Gauges
  - 2" (53mm) diameter brass
- Outlet Connection
  - 1/4" FPT
- Transducers
  - 0-6000 PSIG (4-20 mA output)
  - Optional intrinsically safe models
- Helium Leak Integrity
  - 1 x 10⁻⁸ scc/sec
- Cv
  - 0.1
- Weight
  - 8.5 lbs. (3.85 kg)

CRN 0H15806.5

526 E031 shown
Available with optional remote alarm.
## Installation Information

**Diaphragm Valves on Side Ports**

- **D:** 200 PSIG (14 BAR) 110V Heated Line Regulator
- **E:** 200 PSIG (14 BAR) 220V Heated Line Regulator
- **F:** 300 PSIG (21 BAR) 110V Heated Line Regulator
- **G:** 300 PSIG (21 BAR) 220V Heated Line Regulator
- **H:** 500 PSIG (34 BAR) 110V Heated Line Regulator
- **J:** 500 PSIG (34 BAR) 220V Heated Line Regulator

**Diaphragm Valves on Bottom Ports**

Optional Inlet Transducers Shown. Also available with Intrinsically Safe Transducers or without Transducers.

### Ordering Information

<table>
<thead>
<tr>
<th>Series</th>
<th>Nominal Switching Pressure</th>
<th>Inlet Connection</th>
<th>Heated Line Regulator</th>
<th>Assembly</th>
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<td>1: 0-15 PSIG (0-1 BAR)</td>
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<td>E: 200 PSIG (14 BAR) 220V Heated Line Regulator*</td>
<td>1: 36&quot; (900mm) stainless steel flexible hoses</td>
<td>2: 0-50 PSIG (0-3.5 BAR)</td>
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<td>F: 300 PSIG (21 BAR) 110V Heated Line Regulator</td>
<td>2: Manifold connectors*</td>
<td>3: 0-100 PSIG (0-7 BAR)</td>
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<td>3: 24&quot; (600mm) stainless steel flexible hoses</td>
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**See 52B Series for manifold ordering information**

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