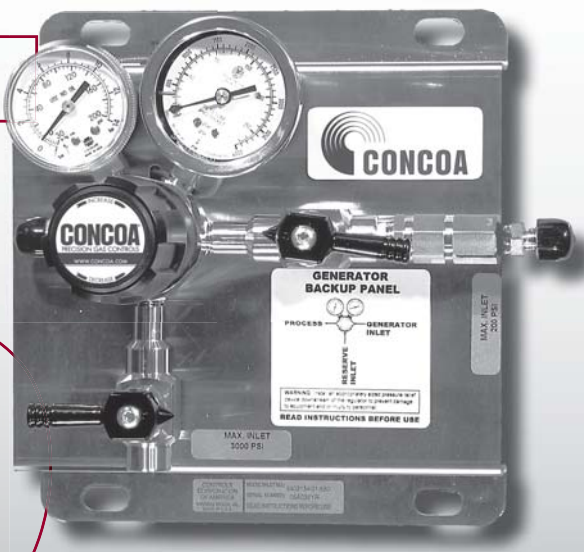




# 500 Series Distribution Systems

## Generator Back-Up Panel

The 540 Series Generator Back-Up Panel is designed to provide a reserve supply to a gas generator. If there is a loss of power, or if the gas generator cannot provide sufficient gas to the system, the reserve supply will automatically activate and supply gas without interruption. When the generator is capable of supplying the system, the reserve shuts down. Back-up panels are available for Nitrogen, Air, and Hydrogen in brass or 316 stainless steel construction. With the available remote alarm package, the system can signal when the reserve supply is active or running low.



540 2134 shown

### Typical Applications

- Generator backup supply
- Hydrogen, Air, Nitrogen, or Oxygen generator backup
- GC, FID, and mass spec backup
- Micro bulk and bulk backup or reserve
- Critical laboratory gas reserve
- Incubator CO<sub>2</sub> backup supply

Ask About Our

**EXTENDED  
WARRANTY**

On This CONCOA Product

### Features

#### Adjustable Pressure

User determines the pressure at which the backup engages

#### Check Valves on Both Generator and Reserve

Prevents back flow to the generator or reserve cylinder

#### Shut-Off Valves on Both Generator and Reserve

Allows isolation and disconnection of either line

### Materials

#### Regulator Body

Brass or 316L stainless steel barstock

#### Bonnet

Brass or chrome-plated brass barstock

#### Seat

PTFE (3000 PSIG)

#### Filter

10 micron sintered bronze mesh or 316L patented stainless steel mesh

#### Diaphragm and Hose

316L stainless steel

#### CGA Connections

Brass or 316L stainless steel with check valve

#### Check Valve Seat

Viton®

#### Panel

304 stainless steel

### Specifications

#### Maximum Inlet Pressure

3000 PSIG (210 BAR)

#### Temperature Range

-40°F to 140°F (-40°C to 60°C)

#### Gauges

2" diameter brass or 316L stainless steel

#### Helium Leak Integrity

1 x 10<sup>-9</sup> scc/sec

#### Adjustable Pressure Range

0 to 150 PSIG (0 to 10 BAR)

#### Cv

0.1

#### Weight

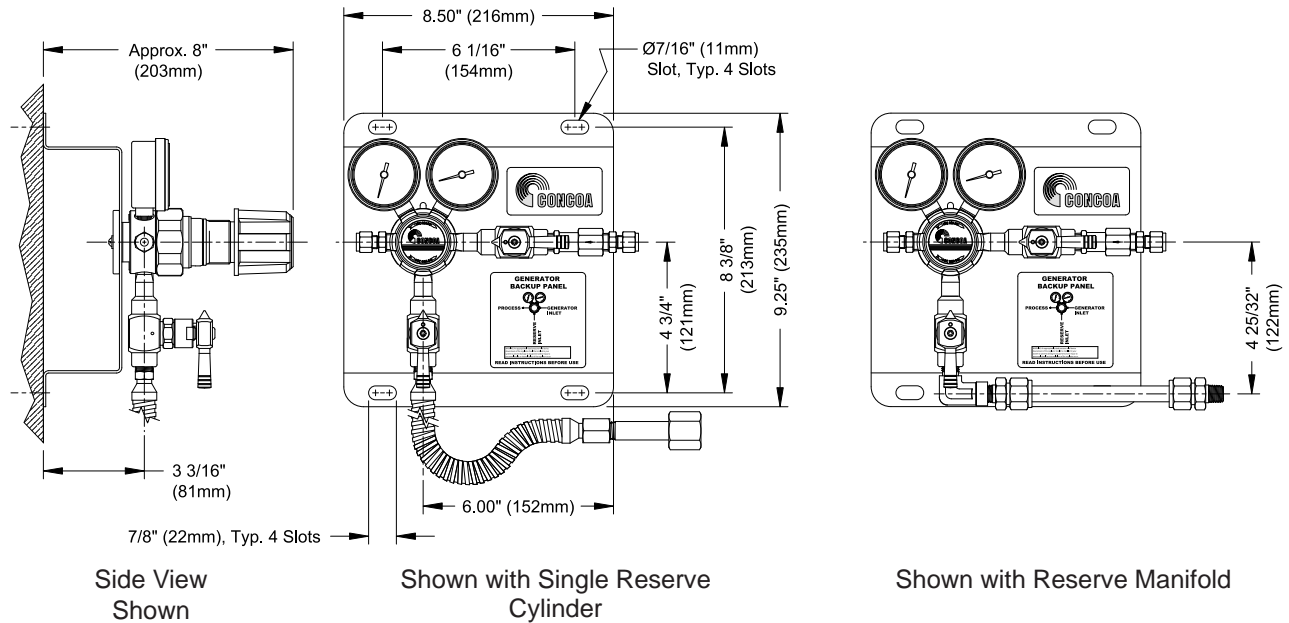
Brass - 6.5 lbs. (2.95 kg)

Stainless steel - 7.25 lbs (3.29 kg)

# 500 Series Distribution Systems



## Installation Dimensions



## Ordering Information

| 540        | A  | B   | C   | D  | -CON  |
|------------|--|---|---|--|---|
| Series 540 | Material   | Number of Reserve Cylinders               | Hose Style  | Assembly/Gauges  | Hose  |
|            | <b>1:</b> Brass                                    | <b>1:</b> 1 cylinder with diaphragm valve | <b>0:</b> No hoses  | <b>1:</b> 0-4000 PSIG/kPa gauge, no alarm capability                       | CGA<br>DIN 477<br>BS 341<br>and others<br>available |
|            | <b>2:</b> 316L stainless steel                     | <b>2:</b> 2 cylinder manifold             | <b>2:</b> 24" flexible 316 stainless steel with check valve | <b>2:</b> 0-4000 BAR/PSIG gauge, no alarm capability                       |   |
|            |  | <b>3:</b> 3 cylinder manifold             | <b>3:</b> 36" flexible 316 stainless steel with check valve | <b>3:</b> 0-4000 BAR/PSIG gauge with pressure switch and 120V remote alarm |   |
|            |  | <b>4:</b> 4 cylinder manifold             | <b>6:</b> 72" flexible 316 stainless steel with check valve | <b>4:</b> 0-4000 BAR/PSIG gauge with pressure switch and 220V remote alarm |   |
|            |  | <b>5:</b> 5 cylinder manifold             |   | <b>9:</b> 0-4000 BAR/PSIG gauge with pressure switch without remote alarm  |   |
|            |  | <b>6:</b> 6 cylinder manifold             |   |  |   |
|            |  | <b>7:</b> 7 cylinder manifold             |   |  |   |
|            |  | <b>8:</b> 8 cylinder manifold             |   |  |   |
|            |  | <b>9:</b> 9 cylinder manifold             |   |  |   |
|            |  | <b>0:</b> 10 cylinder manifold            |   |  |   |
|            |  | <b>A:</b> 11 cylinder manifold            |   |  |   |
|            |  | <b>B:</b> 12 cylinder manifold            |   |  |   |
|            |  | <b>C:</b> 13 cylinder manifold            |   |  |   |
|            | <b>D:</b> 14 cylinder manifold                     |   |   |  |   |
|            | <b>E:</b> 15 cylinder manifold                     |   |   |  |   |
|            | <b>W:</b> Diaphragm valve with 1/4" FPT port       |   |   |  |   |
|            | <b>Y:</b> Diaphragm valve with manifold connection |   |   |  |   |