

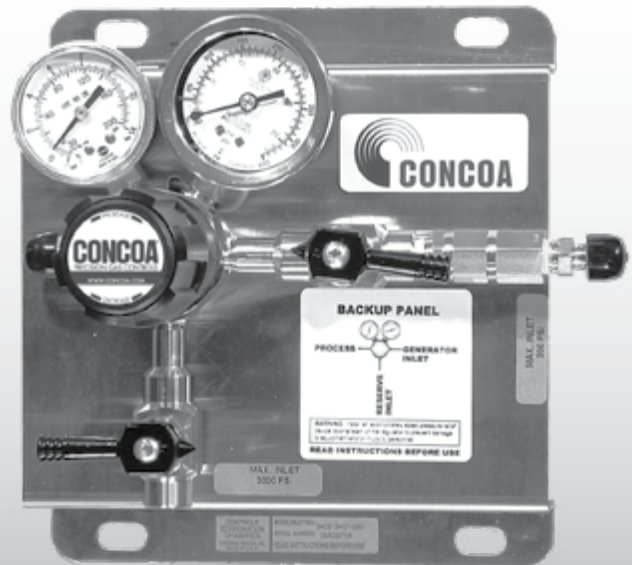


# Pressure Differential Switchovers

# 540 SERIES

## Back-Up Panel

The 540 Series Back-Up Panel is designed to provide a reserve supply to any continuous supply system such as a generator, switchover, or bulk source. If supply is interrupted for any reason, the reserve supply will automatically activate and supply gas without interruption. When the primary source is capable of supplying the system, the reserve shuts down. Back-up panels are available 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
- Gas chromatography, flame ionization detector, and mass spec backup
- Microbulk and bulk backup or reserve
- Critical laboratory gas reserve
- Incubator Carbon Dioxide backup supply

### 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
- Seats**  
PTFE (line regulator)  
PCTFE (inlet regulators)
- Filter**  
10 micron sintered bronze mesh or patented 316L stainless steel mesh
- Diaphragm and Hose**  
316L stainless steel
- Cylinder Connections**  
Brass or 316L stainless steel with check valve
- Check Valve Seat**  
Viton®
- Panel**  
304 stainless steel

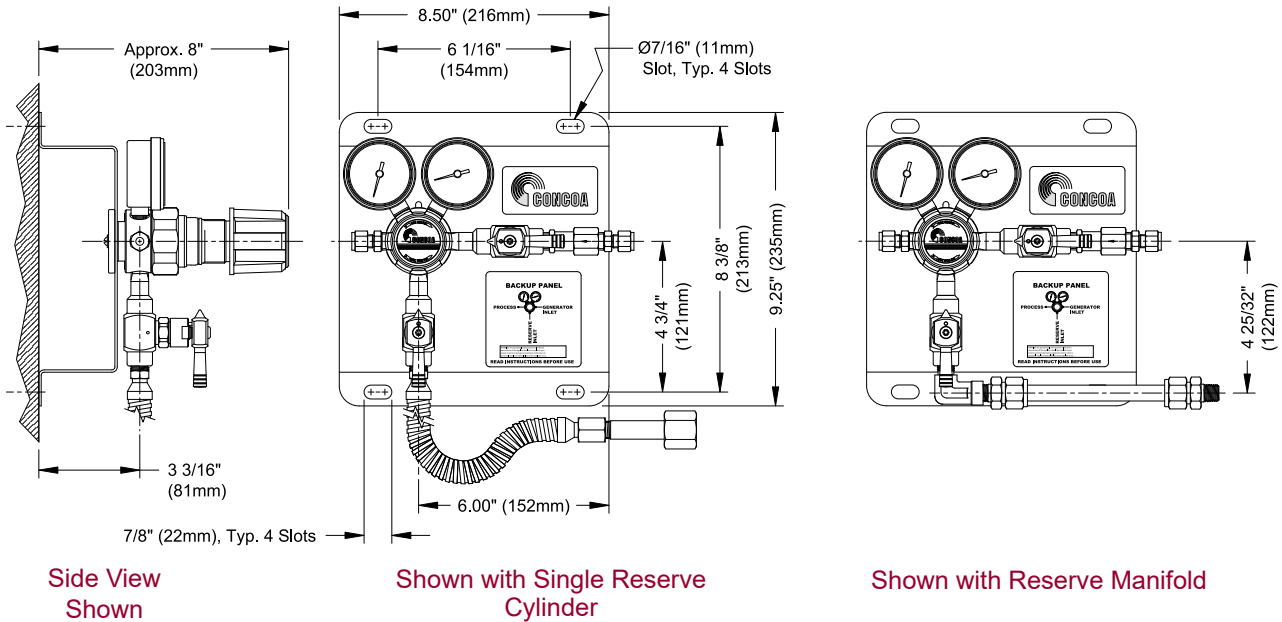
### Specifications

- Maximum Inlet Pressure**  
3000 PSIG (210 BAR)
- Temperature Range**  
-40°F to 140°F (-40°C to 60°C)
- Gauges**  
2" (53mm) diameter brass or 316L stainless steel
- Helium Leak Integrity**  
1 x 10<sup>-9</sup> scc/sec
- Two Adjustable Pressure Ranges**  
0-150 PSIG (0-10 BAR)  
150-500 PSIG (10-34 BAR)
- Cv**  
0.1
- Weight**  
Brass - 6.5 lbs. (2.95 kg)  
Stainless steel - 7.25 lbs (3.29 kg)

# Pressure Differential Switchovers



## Installation Dimensions



DISTRIBUTION SYSTEMS

## Ordering Information

540	A	B	C	D	-CON
Series 540	Material	Number of Reserve Cylinders	Hose Style	Assembly/Gauges	Hose
	<b>1:</b> Brass 150 PSIG (10 BAR) maximum outlet	<b>1:</b> 1 cylinder with diaphragm valve	<b>0:</b> No hoses	<b>1:</b> 0-4000 PSIG/28,000 kPa gauge, no alarm capability	CGA DIN 477 BS 341 and others available
	<b>2:</b> 316L stainless steel 150 PSIG (10 BAR) maximum outlet	<b>2:</b> 2 cylinder manifold	<b>2:</b> 24" (600mm) flexible 316 stainless steel with check valve	<b>2:</b> 0-275 BAR/0-4000 PSIG gauge, no alarm capability	
	<b>3:</b> Brass 500 PSIG (34 BAR) maximum outlet	<b>3:</b> 3 cylinder manifold	<b>3:</b> 36" (900mm) flexible 316 stainless steel with check valve	<b>4:</b> 0-275 BAR/0-4000 PSIG gauge with pressure switch and 110/220 VAC remote alarm	
	<b>4:</b> 316L stainless steel 500 PSIG (34 BAR) maximum outlet	<b>4:</b> 4 cylinder manifold	<b>6:</b> 72" (1800mm) flexible 316 stainless steel with check valve	<b>9:</b> 0-275 BAR/0-4000 PSIG gauge with pressure switch without remote alarm	
		<b>5:</b> 5 cylinder manifold			
		<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			