

## Point-of-Use Panels

The 54 Series Point of Use Panels provide a modular design to mount and locate 400 Series regulators at the point of use for the most demanding gas applications. They are intended to provide final pressure control for research and ultra high purity gases or in the case of the 54S even corrosive service gases or mixtures. The high leak integrity of  $1 \times 10^{-9}$  cc/sec ensures delivery of those gases in an unaltered state to the most sensitive process or instrumentation applications. Supplied with up to four regulators per panel they are ideal for the primary support gases GC-MS and environmental calibration systems, with up to 6 different delivery pressures the user can select the one that is best for their application.



54B 3000-001 shown



54S 3330-001 shown

### Typical Applications

- Research grade gas systems
- Ultra high purity gas control
- GC-MS support gases
- Environmental calibration
- Liquefied hydrocarbon gas control
- Corrosive process gases
- Zero, span and support gases
- Hydrocarbon research and standards

### Features

#### 435 or 445 Series Regulators

Ultra high gas purity

#### Modular Design

Flexible installation

#### Rear Entry Regulator Inlet Ports

Piping behind panel

#### Five Individually Selectable Pressure Ranges

0-15 to 0-500 PSIG

#### 14 Gauge Stainless Steel Panel

Clean corrosion resistant installation

#### Stainless Steel Diaphragm

No inboard diffusion

#### High-Purity Diaphragm Outlet Valve

Fas flow control and positive shut-off

### Materials

#### Regulator and Valve Body

316L stainless steel or brass barstock

#### Bonnet

Chrome-plated brass barstock

#### Seats

PTFE on regulator  
PCTFE on Valve

#### Filter

10 micron patented stainless steel mesh or sintered bronze

#### Diaphragm

316L stainless steel

#### Internal Seals

PTFE

### Specifications

#### Maximum Inlet Pressure

3000 PSIG (207 bar)

#### Operating Temp. Range

-40°F to 140°F (-40°C to 60°C)

#### Cv

0.1 (Max outlet 50 PSIG or below)  
0.2 (Max outlet above 50 PSIG)

#### Inlet/Outlet Connection:

1/4" NPT female

#### Gauges

2" brass or stainless steel case  
54B brass stem/phosphor bronze tube  
54S stainless steel stem and tube

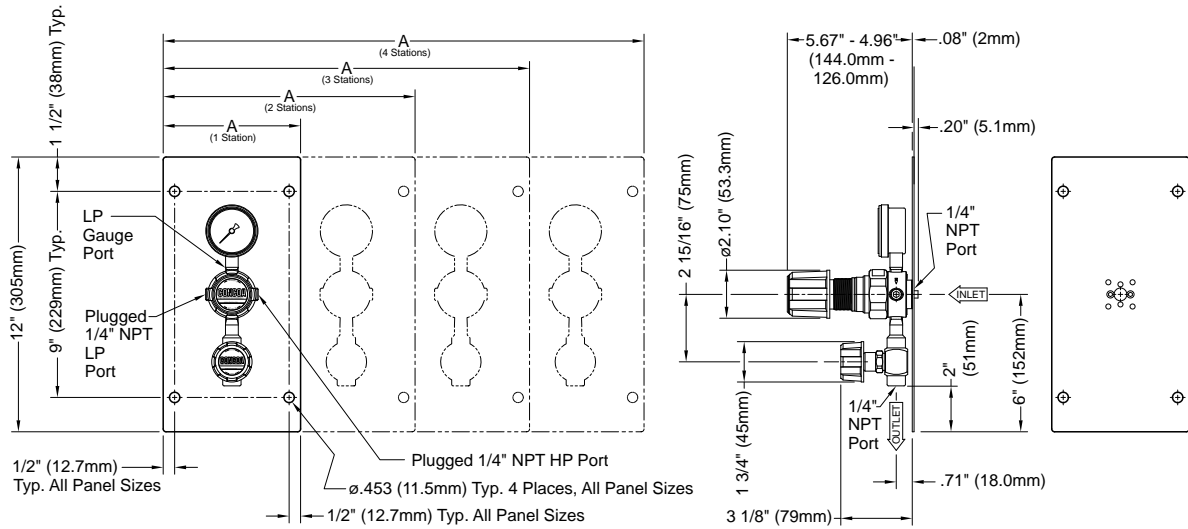
#### Panel

14-gauge 304 stainless steel

# 500 Series Distribution Systems



## Installation Dimensions



Number of Stations	Length "Dim A"
1	6"
2	11"
3	16"
4	21"

## Ordering Information

54	Material	Station 1	Station 2	Station 3	Station 4	-001
54 Series		Outlet Pressure/ (Outlet Gauge)	Outlet Pressure/ (Outlet Gauge)	Outlet Pressure/ (Outlet Gauge)	Outlet Pressure/ (Outlet Gauge)	Options
	<b>B:</b> Brass 435 Series regulators	<b>1:</b> 0-15 PSIG / (30"-0-30 PSIG/kPa)	<b>1:</b> 0-15 PSIG / (30"-0-30 PSIG/kPa)	<b>1:</b> 0-15 PSIG / (30"-0-30 PSIG/kPa)	<b>1:</b> 0-15 PSIG / (30"-0-30 PSIG/kPa)	Contact CONCOA for available options.
	<b>S:</b> 316L stainless steel 445 Series regulators	<b>A:</b> 0-1 BAR / (-1-0-2 BAR/PSIG)	<b>A:</b> 0-1 BAR / (-1-0-2 BAR/PSIG)	<b>A:</b> 0-1 BAR / (-1-0-2 BAR/PSIG)	<b>A:</b> 0-1 BAR / (-1-0-2 BAR/PSIG)	
		<b>2:</b> 0-50 PSIG / (30"-0-100 PSIG/kPa)	<b>2:</b> 0-50 PSIG / (30"-0-100 PSIG/kPa)	<b>2:</b> 0-50 PSIG / (30"-0-100 PSIG/kPa)	<b>2:</b> 0-50 PSIG / (30"-0-100 PSIG/kPa)	
		<b>B:</b> 0-3.5 BAR / (-1-0-7 BAR/PSIG)	<b>B:</b> 0-3.5 BAR / (-1-0-7 BAR/PSIG)	<b>B:</b> 0-3.5 BAR / (-1-0-7 BAR/PSIG)	<b>B:</b> 0-3.5 BAR / (-1-0-7 BAR/PSIG)	
		<b>3:</b> 0-100 PSIG / (30"-0-200 PSIG/kPa)	<b>3:</b> 0-100 PSIG / (30"-0-200 PSIG/kPa)	<b>3:</b> 0-100 PSIG / (30"-0-200 PSIG/kPa)	<b>3:</b> 0-100 PSIG / (30"-0-200 PSIG/kPa)	
		<b>C:</b> 0-7 BAR / (-1-0-14 BAR/PSIG)	<b>C:</b> 0-7 BAR / (-1-0-14 BAR/PSIG)	<b>C:</b> 0-7 BAR / (-1-0-14 BAR/PSIG)	<b>C:</b> 0-7 BAR / (-1-0-14 BAR/PSIG)	
		<b>4:</b> 0-250 PSIG / (0-400 PSIG/kPa)	<b>4:</b> 0-250 PSIG / (0-400 PSIG/kPa)	<b>4:</b> 0-250 PSIG / (0-400 PSIG/kPa)	<b>4:</b> 0-250 PSIG / (0-400 PSIG/kPa)	
		<b>D:</b> 0-16.5 BAR / (0-26.6 BAR/PSIG)	<b>D:</b> 0-16.5 BAR / (0-26.6 BAR/PSIG)	<b>D:</b> 0-16.5 BAR / (0-26.6 BAR/PSIG)	<b>D:</b> 0-16.5 BAR / (0-26.6 BAR/PSIG)	
		<b>5:</b> 0-500 PSIG / (0-1000 PSIG/kPa)	<b>5:</b> 0-500 PSIG / (0-1000 PSIG/kPa)	<b>5:</b> 0-500 PSIG / (0-1000 PSIG/kPa)	<b>5:</b> 0-500 PSIG / (0-1000 PSIG/kPa)	
		<b>E:</b> 0-33.5 BAR / (0-66.5 BAR/PSIG)	<b>E:</b> 0-33.5 BAR / (0-66.5 BAR/PSIG)	<b>E:</b> 0-33.5 BAR / (0-66.5 BAR/PSIG)	<b>E:</b> 0-33.5 BAR / (0-66.5 BAR/PSIG)	
		<b>7:</b> 0-150 PSIG / (30"-0-200 PSIG/kPa)	<b>7:</b> 0-150 PSIG / (30"-0-200 PSIG/kPa)	<b>7:</b> 0-150 PSIG / (30"-0-200 PSIG/kPa)	<b>7:</b> 0-150 PSIG / (30"-0-200 PSIG/kPa)	
		<b>G:</b> 0-10 BAR / (-1-0-14 BAR/PSIG)	<b>G:</b> 0-10 BAR / (-1-0-14 BAR/PSIG)	<b>G:</b> 0-10 BAR / (-1-0-14 BAR/PSIG)	<b>G:</b> 0-10 BAR / (-1-0-14 BAR/PSIG)	