54 Series Point-of-Use Panels

The 54 Series Point-of-Use Panels provide a modular, secure mounting solution for 400 Series CONCOA regulators. The brass (54B) or chrome-plated brass (54C) models offer precise point-of-use pressure control for research and ultra high purity inert gases, while the stainless steel model (54S) safely handles corrosive service gases and gas mixtures. With options for up to six delivery pressures and up to four regulators per panel, CONCOA 54 Series panels deliver the exact gas pressure and purity required for peak performance and absolute system integrity, making them ideal for ultra-high purity gas calibration systems.



54S5000-01-001 and 54C3330-01-001 and shown

Typical Applications

- Environmental Calibration
- Corrosive Process Gases
- Zero, Span and Support Gases
- Liquefied Hydrocarbon Gas Control

Features

Custom Configured Modular Design permits flexible installation and operation

Rear Entry Regulator Inlet Port enables on or in-wall piping

Individually Selectable Pressure Ranges support a broad range of applications

14-gauge Stainless Steel Panel provides clean corrosion resistant installation

Stainless Steel Diaphragm prevents inboard diffusion

High Purity Diaphragm Outlet Valve allows gas flow control and positive shut-off

Materials and Specifications

Maximum Inlet Pressure: 3000 PSIG (240 BAR)

Regulator and Valve Bodies: Brass barstock (54B); chrome-plated brass barstock (54C); or 316L stainless steel (54S)

Bonnet: Brass barstock (54B); chrome-plated brass barstock (54C and 54S)

Gauges: 2" (50 mm) brass case with brass stem and phosphor bronze tube (54B); 2" (50 mm) brass case with chrome-plated stem and phosphor bronze tube (54C); or 2" (50 mm) stainless steel case with stainless steel stem and tube (54S)

Filter: 10-micron sintered bronze (54B and 54C); 10-micron 316L stainless steel mesh (55S)

Diaphragm: 316L stainless steel

Temperature Range: -40°F to 140°F (-40°C to 60°C)

Inlet/Outlet Connections: 1/4" FNPT

Helium Leak Integrity: 1×10^{-9} scc/sec

Seats: PTFE (regulator); PCTFE (valve)

Internal Seals: PTFE

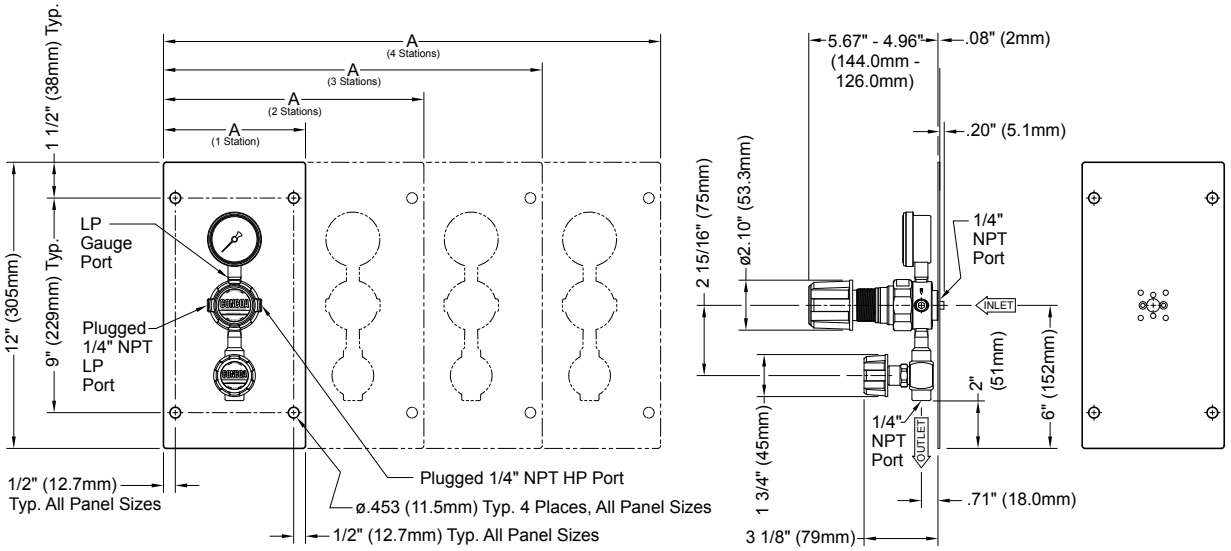
Panel: 14-gauge 304 stainless steel

Cv: 0.1 Max outlet 50 PSIG (3.5 BAR) or below; 0.2 Max outlet above 50 PSIG (3.5 BAR)

Conformances: Cleanliness meets or exceeds CGA G-4-1; PED 2014/68/EU; ANSI/ASME B40.1; CRN OH5216.5

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Installation Dimensions



Number of Stations	Length "Dim A"
1	6" (152.4mm)
2	11" (279.4mm)
3	16" (406.4mm)
4	21" (533.4mm)

Ordering Information

		Station 1		Station 2		Station 3		Station 4	
	Material	Outlet Pressure	Outlet Gauge	Outlet Pressure	Outlet Gauge	Outlet Pressure	Outlet Gauge	Outlet Pressure	Outlet Gauge
Series 54	**B:** Brass 435 Series regulators	**1:** 0-15 PSIG (0-1 BAR)	30"-0-30 PSIG/ 100-0-200 kPa	**1:** 0-15 PSIG (0-1 BAR)	30"-0-30 PSIG/ 100-0-200 kPa	**1:** 0-15 PSIG (0-1 BAR)	30"-0-30 PSIG/ 100-0-200 kPa	**1:** 0-15 PSIG (0-1 BAR)	30"-0-30 PSIG/ 100-0-200 kPa
	C: Chrome-plated brass 438 Series regulators	**2:** 0-50 PSIG (0-3.5 BAR)	30"-0-100 PSIG/ -100-0-700 kPa	**2:** 0-50 PSIG (0-3.5 BAR)	30"-0-100 PSIG/ -100-0-700 kPa	**2:** 0-50 PSIG (0-3.5 BAR)	30"-0-100 PSIG/ -100-0-700 kPa	**2:** 0-50 PSIG (0-3.5 BAR)	30"-0-100 PSIG/ -100-0-700 kPa
	S: 316L stainless steel 445 Series regulators	**3:** 0-100 PSIG (0-7 BAR)	30"-0-200 PSIG/ -100-0-1400 kPa	**3:** 0-100 PSIG (0-7 BAR)	30"-0-200 PSIG/ -100-0-1400 kPa	**3:** 0-100 PSIG (0-7 BAR)	30"-0-200 PSIG/ -100-0-1400 kPa	**3:** 0-100 PSIG (0-7 BAR)	30"-0-200 PSIG/ -100-0-1400 kPa
		4: 0-250 PSIG (0-17 BAR)	0-400 PSIG/ 0-2800 kPa	**4:** 0-250 PSIG (0-17 BAR)	0-400 PSIG/ 0-2800 kPa	**4:** 0-250 PSIG (0-17 BAR)	0-400 PSIG/ 0-2800 kPa	**4:** 0-250 PSIG (0-17 BAR)	0-400 PSIG/ 0-2800 kPa
		5: 0-500 PSIG (0-34 BAR)	0-1000 PSIG/ 0-7000 kPa	**5:** 0-500 PSIG (0-34 BAR)	0-1000 PSIG/ 0-7000 kPa	**5:** 0-500 PSIG (0-34 BAR)	0-1000 PSIG/ 0-7000 kPa	**5:** 0-500 PSIG (0-34 BAR)	0-1000 PSIG/ 0-7000 kPa
		7: 0-150 PSIG (0-10 BAR)	30"-0-200 PSIG/ -100-0-1400 kPa	**7:** 0-150 PSIG (0-10 BAR)	30"-0-200 PSIG/ -100-0-1400 kPa	**7:** 0-150 PSIG (0-10 BAR)	30"-0-200 PSIG/ -100-0-1400 kPa	**7:** 0-150 PSIG (0-10 BAR)	30"-0-200 PSIG/ -100-0-1400 kPa
		A: 0-15 PSIG (0-1 BAR)	-1-0-2 BAR/ 30"-0-30 PSIG	**A:** 0-15 PSIG (0-1 BAR)	-1-0-2 BAR/ 30"-0-30 PSIG	**A:** 0-15 PSIG (0-1 BAR)	-1-0-2 BAR/ 30"-0-30 PSIG	**A:** 0-15 PSIG (0-1 BAR)	-1-0-2 BAR/ 30"-0-30 PSIG
		B: 0-50 PSIG (0-3.5 BAR)	-1-0-7 BAR/ 30"-0-100 PSIG	**B:** 0-50 PSIG (0-3.5 BAR)	-1-0-7 BAR/ 30"-0-100 PSIG	**B:** 0-50 PSIG (0-3.5 BAR)	-1-0-7 BAR/ 30"-0-100 PSIG	**B:** 0-50 PSIG (0-3.5 BAR)	-1-0-7 BAR/ 30"-0-100 PSIG
		C: 0-100 PSIG (0-7 BAR)	-1-0-14 BAR/ 30"-0-200 PSIG	**C:** 0-100 PSIG (0-7 BAR)	-1-0-14 BAR/ 30"-0-200 PSIG	**C:** 0-100 PSIG (0-7 BAR)	-1-0-14 BAR/ 30"-0-200 PSIG	**C:** 0-100 PSIG (0-7 BAR)	-1-0-14 BAR/ 30"-0-200 PSIG
		D: 0-250 PSIG (0-17 BAR)	0-27 BAR/ 0-400 PSIG	**D:** 0-250 PSIG (0-17 BAR)	0-27 BAR/ 0-400 PSIG	**D:** 0-250 PSIG (0-17 BAR)	0-27 BAR/ 0-400 PSIG	**D:** 0-250 PSIG (0-17 BAR)	0-27 BAR/ 0-400 PSIG
		E: 0-500 PSIG (0-34 BAR)	0-70 BAR/ 1000 PSIG	**E:** 0-500 PSIG (0-34 BAR)	0-70 BAR/ 1000 PSIG	**E:** 0-500 PSIG (0-34 BAR)	0-70 BAR/ 1000 PSIG	**E:** 0-500 PSIG (0-34 BAR)	0-70 BAR/ 1000 PSIG
		G: 0-150 PSIG (0-10 BAR)	-1-0-14 BAR/ 30"-0-200 PSIG	**G:** 0-150 PSIG (0-10 BAR)	-1-0-14 BAR/ 30"-0-200 PSIG	**G:** 0-150 PSIG (0-10 BAR)	-1-0-14 BAR/ 30"-0-200 PSIG	**G:** 0-150 PSIG (0-10 BAR)	-1-0-14 BAR/ 30"-0-200 PSIG