

54 SERIES POINT-OF-USE PANEL



The 54 Series Point of Use Panels provide a modular, secure mounting solution for up to four 400 Series CONCOA regulators. They offer precise point-of-use pressure control for non-corrosive and high purity laboratory gases (54C model), non-corrosive, non-reactive, and industrial-grade gases (54B model), or high purity analytical, corrosive, and reactive gas mixtures (54S model). Featuring 1×10^{-9} cc/sec leak integrity, these panels ensure pure, consistent gas delivery, making them ideal for high-demanding laboratory, chromatography, and specialty gas applications.

Typical Applications

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



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

Features

Modular, Custom Configured 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: 3500 PSIG (240 BAR)

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

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

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

Gauges (54B): 2 in (50 mm) brass case with brass stem and phosphor bronze tube

Gauges (54C): 2 in (50 mm) brass case with chrome-plated stem and phosphor bronze tube

Gauges (54S): 2 in (50 mm) stainless steel case with stainless steel stem and tube

Panels: 14-gauge 304 stainless steel

Inlet/Outlet Connections: 1/4 in FNPT

Seats: PTFE (regulator); PCTFE (valve)

Internal Seals: PTFE

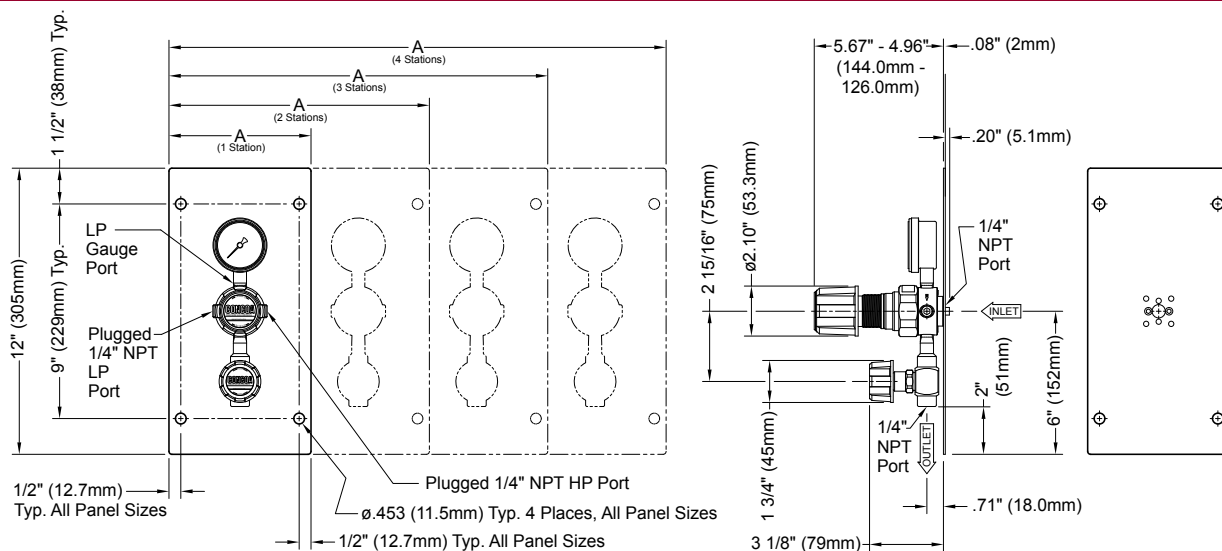
Diaphragms: 316L stainless steel

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

54	Material	Station 1		Station 2		Station 3		Station 4	
Series		Outlet Pressure	Outlet Gauge	Outlet Pressure	Outlet Gauge	Outlet Pressure	Outlet Gauge	Outlet Pressure	Outlet Gauge
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	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
	S: 316L stainless steel 445 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
		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
		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
		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
		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
		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
		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
		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
		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
		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