53 Series Point-of-Use Panels

The 53 Series Point-of-Use Panels provide a modular design to mount and locate 300 Series regulators at the point of use for high purity instrumentation or process gases. They are intended to provide final pressure control in gas distribution systems and are ideal for laboratory applications. The 53 Series are supplied with up to four high-purity regulators with rear entry inlet ports and diaphragm outlet valves. Five standard delivery pressure ranges can be individually selected for each regulator station 0-15 PSIG (0-1 BAR) to 0-200 PSIG (0-14 BAR).



53C 3330 001 shown

53S 5000 001 shown

Typical Applications

- Bulk Gas Distribution Systems
- Gas and Liquid Chromatography
- High Purity Carrier Gases
- Zero, Span and Support Gases
- Liquefied Hydrocarbon Gas Control

Features

Modular, Custom Configured Design permits flexible installation and operation

Rear Entry Regulator Inlet Port allows front panel mounting with piping behind the panel

Five 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: Chrome-plated brass barstock (53C); or 316L stainless steel (53S)

Bonnet: Chrome-plated brass barstock (53C and 53S)

Gauges: 2" (50 mm) plated case with plated stem and phosphor bronze tube (53C); or 2" (50 mm) stainless steel case with stainless steel stem and tube (53S)

Filter: 10-micron sintered bronze (53C); 10-micron 316L stainless steel mesh (53S)

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

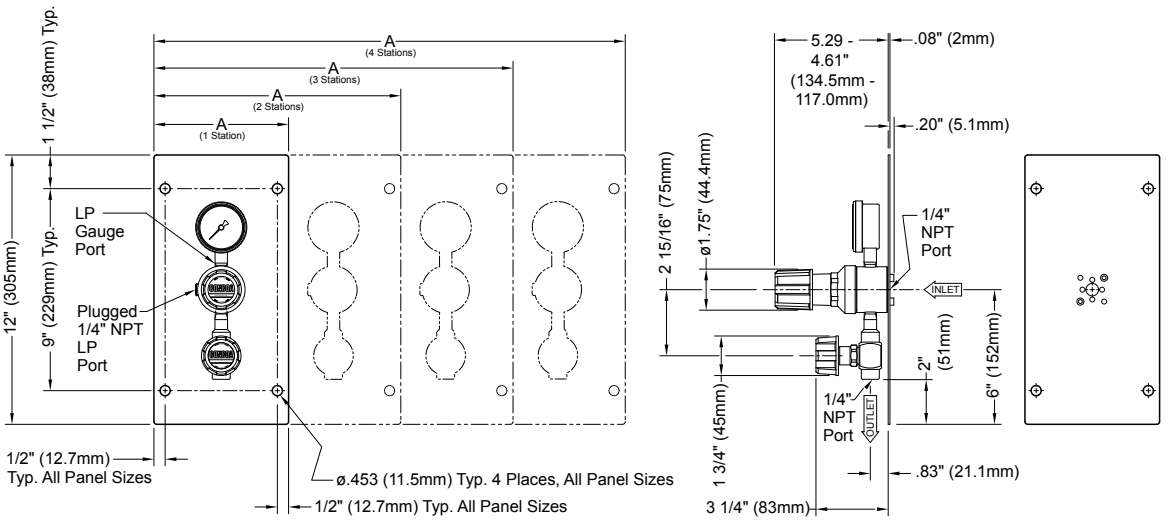
Panel: 14-gauge 304 stainless steel

Cv: 0.1

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

53 Series Point-of-Use Panels

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

	Material	Station 1		Station 2		Station 3		Station 4	
		Outlet Pressure	Outlet Gauge	Outlet Pressure	Outlet Gauge	Outlet Pressure	Outlet Gauge	Outlet Pressure	Outlet Gauge
Series 53	**C:** Chrome-plated brass barstock 307 Series regulators	**1:** 0-15 PSIG (0-1 BAR)	0-30 PSIG/ 0-200 kPa	**1:** 0-15 PSIG (0-1 BAR)	0-30 PSIG/ 0-200 kPa	**1:** 0-15 PSIG (0-1 BAR)	0-30 PSIG/ 0-200 kPa	**1:** 0-15 PSIG (0-1 BAR)	0-30 PSIG/ 0-200 kPa
	S: 316L stainless steel 327 Series regulators	**2:** 0-30 PSIG (0-2 BAR)	0-60 PSIG/ 0-400 kPa	**2:** 0-30 PSIG (0-2 BAR)	0-60 PSIG/ 0-400 kPa	**2:** 0-30 PSIG (0-2 BAR)	0-60 PSIG/ 0-400 kPa	**2:** 0-30 PSIG (0-2 BAR)	0-60 PSIG/ 0-400 kPa
		3: 0-50 PSIG (0-3.5 BAR)	0-100 PSIG/ 0-700 kPa	**3:** 0-50 PSIG (0-3.5 BAR)	0-100 PSIG/ 0-700 kPa	**3:** 0-50 PSIG (0-3.5 BAR)	0-100 PSIG/ 0-700 kPa	**3:** 0-50 PSIG (0-3.5 BAR)	0-100 PSIG/ 0-700 kPa
		4: 0-150 PSIG (0-10 BAR)	0-200 PSIG/ 0-1400 kPa	**4:** 0-150 PSIG (0-10 BAR)	0-200 PSIG/ 0-1400 kPa	**4:** 0-150 PSIG (0-10 BAR)	0-200 PSIG/ 0-1400 kPa	**4:** 0-150 PSIG (0-10 BAR)	0-200 PSIG/ 0-1400 kPa
		5: 0-100 PSIG (0-7 BAR)	0-200 PSIG/ 0-1400 kPa	**5:** 0-100 PSIG (0-7 BAR)	0-200 PSIG/ 0-1400 kPa	**5:** 0-100 PSIG (0-7 BAR)	0-200 PSIG/ 0-1400 kPa	**5:** 0-100 PSIG (0-7 BAR)	0-200 PSIG/ 0-1400 kPa
		6: 0-200 PSIG (0-14 BAR)	0-400 PSIG/ 0-2800 kPa	**6:** 0-200 PSIG (0-14 BAR)	0-400 PSIG/ 0-2800 kPa	**6:** 0-200 PSIG (0-14 BAR)	0-400 PSIG/ 0-2800 kPa	**6:** 0-200 PSIG (0-14 BAR)	0-400 PSIG/ 0-2800 kPa
		A: 0-15 PSIG (0-1 BAR)	0-2 BAR/ 0-30 PSIG	**A:** 0-15 PSIG (0-1 BAR)	0-2 BAR/ 0-30 PSIG	**A:** 0-15 PSIG (0-1 BAR)	0-2 BAR/ 0-30 PSIG	**A:** 0-15 PSIG (0-1 BAR)	0-2 BAR/ 0-30 PSIG
		B: 0-30 PSIG (0-2 BAR)	0-4 BAR/ 0-60 PSIG	**B:** 0-30 PSIG (0-2 BAR)	0-4 BAR/ 0-60 PSIG	**B:** 0-30 PSIG (0-2 BAR)	0-4 BAR/ 0-60 PSIG	**B:** 0-30 PSIG (0-2 BAR)	0-4 BAR/ 0-60 PSIG
		C: 0-50 PSIG (0-3.5 BAR)	0-7 BAR/ 0-100 PSIG	**C:** 0-50 PSIG (0-3.5 BAR)	0-7 BAR/ 0-100 PSIG	**C:** 0-50 PSIG (0-3.5 BAR)	0-7 BAR/ 0-100 PSIG	**C:** 0-50 PSIG (0-3.5 BAR)	0-7 BAR/ 0-100 PSIG
		D: 0-150 PSIG (0-10 BAR)	0-14 BAR/ 0-200 PSIG	**D:** 0-150 PSIG (0-10 BAR)	0-14 BAR/ 0-200 PSIG	**D:** 0-150 PSIG (0-10 BAR)	0-14 BAR/ 0-200 PSIG	**D:** 0-150 PSIG (0-10 BAR)	0-14 BAR/ 0-200 PSIG
		E: 0-100 PSIG (0-7 BAR)	0-14 BAR/ 0-200 PSIG	**E:** 0-100 PSIG (0-7 BAR)	0-14 BAR/ 0-200 PSIG	**E:** 0-100 PSIG (0-7 BAR)	0-14 BAR/ 0-200 PSIG	**E:** 0-100 PSIG (0-7 BAR)	0-14 BAR/ 200 PSIG
		F: 0-200 PSIG (0-14 BAR)	0-28 BAR/ 0-400 PSIG	**F:** 0-200 PSIG (0-14 BAR)	0-28 BAR/ 0-400 PSIG	**F:** 0-200 PSIG (0-14 BAR)	0-28 BAR/ 0-400 PSIG	**F:** 0-200 PSIG (0-14 BAR)	0-28 BAR/ 0-400 PSIG