

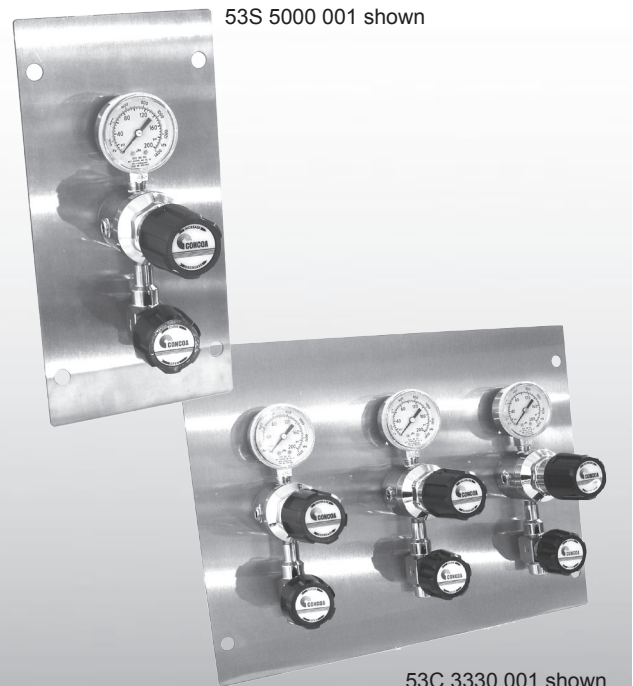
53 SERIES

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).

Typical Applications

| |
|------------------------------------|
| Bulk gas distribution systems |
| Gas and liquid chromatography |
| High purity carrier gases |
| Zero, span, and calibration gases |
| High purity chamber pressurization |
| Liquefied hydrocarbon gas control |
| Control of cryogenic gases |
| EPA protocol standards |



53S 5000 001 shown

53C 3330 001 shown

Features

- 307 or 327 Series Regulators**
High gas purity
- Modular Design**
Flexible installation
- Rear Entry Regulator Inlet Ports**
Piping behind panel
- Five Individually Selectable Pressure Ranges**
0-15 to 0-200 PSIG (0-1 to 0-14 BAR)
- 14 Gauge Stainless Steel Panel**
Clean corrosion resistant installation
- Stainless Steel Diaphragm**
No inboard diffusion
- High-Purity Diaphragm Outlet Valve**
Gas flow control and positive shut-off

Materials

- Regulator and Valve Body**
316L stainless steel or chrome-plated brass barstock
- Bonnet**
Chrome-plated brass barstock
- Seats**
PTFE on regulator
PCTFE on valve
- Filter**
Patented 10 micron 316 mesh or sintered bronze
- Diaphragm**
316L stainless steel
- Internal Seals**
PTFE

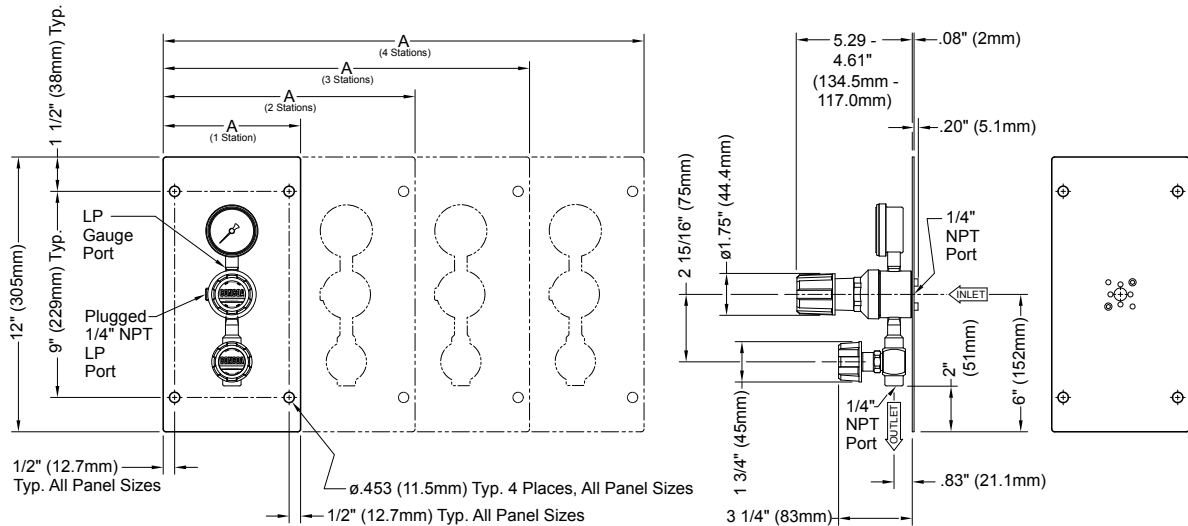
Specifications

- Maximum Inlet Pressure**
3000 PSIG (210 BAR)
- Operating Temp. Range**
-40°F to 140°F (-40°C to 60°C)
- Cv**
0.1
- Inlet/Outlet Connection**
1/4" NPT female
- Gauges**
 - 53C
Chrome-plated stem
Phosphor bronze tube
2" (53mm) brass case
 - 53S
Stainless steel stem
Stainless steel tube
2" (53mm) stainless steel case
- Panel**
14-gauge 304 stainless steel

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

| 53 | Material | Station 1 | | Station 2 | | Station 3 | | Station 4 | |
|-----------|--|---------------------------------|------------------------|---------------------------------|------------------------|---------------------------------|------------------------|---------------------------------|------------------------|
| Series 53 | | Outlet Pressure | Outlet Gauge | Outlet Pressure | Outlet Gauge | Outlet Pressure | Outlet Gauge | Outlet Pressure | Outlet Gauge |
| | 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 | 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 PzSIG (0-1 BAR) | 0-2 BAR/ 0-30 PSIG | A: 0-15 PSIG (0-1 BAR) | 0-2 BAR/ 0-30 PSIG |
| | | 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 |
| | | 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 |
| | | 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 |
| | | 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 |
| | | 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 |
| | | 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 |
| | | 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 |
| | | E: 0-100 PSIG (7 BAR) | 0-14 BAR/ 0-200 PSIG | E: 0-100 PSIG (7 BAR) | 0-14 BAR/ 0-200 PSIG | E: 0-100 PSIG (7 BAR) | 0-14 BAR/ 0-200 PSIG | E: 0-100 PSIG (7 BAR) | 0-14 BAR/ 0-200 PSIG |
| | | 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 |
| | | 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 |

DISTRIBUTION SYSTEMS