

5F SERIES MODULAR POINT-OF-USE PANEL



The 5F Custom Modular Panel is designed to meet the demands of high purity point-of-use pressure control in critical laboratory applications. The 14-gauge, 304 stainless steel panel can be configured with either one or two single stage regulators, a panel mounted outlet gauge, and an isolation valve. Panel options including the regulators, gauges, valves, flowmeters, purification traps, and fittings can be custom configured to meet application-specific demands. The 5F panel features integral flow paths and fewer threaded connections to minimize leak paths and maintain gas purity to the point-of-use. Regardless of gas service, all components are cleaned to meet or exceed CGA E-4 standards. The modular point-of-use panel is expertly engineered to integrate seamlessly into laboratory benches, casework, and fume hoods to facilitate visual connectivity and research collaboration. For ease of installation and process flexibility, panel size, shape, color, markings, and mounting options are tailored to individual workspace environment.



casework installation shown

Features

- Custom-built Panel** ensures exact pressure, flow control, and purity for application specific demands
- Fewer Threaded Connections** minimize the potential for leaks and maintains gas purity to point-of-use
- Multiple Outlet Points** serve one or more laboratory instruments from a single panel
- Customized Mounting Options** accommodate system layout and equipment
- Modular Design** allows future scalability as laboratory needs evolve
- Spectrometric Helium Leak Check** verifies leak integrity

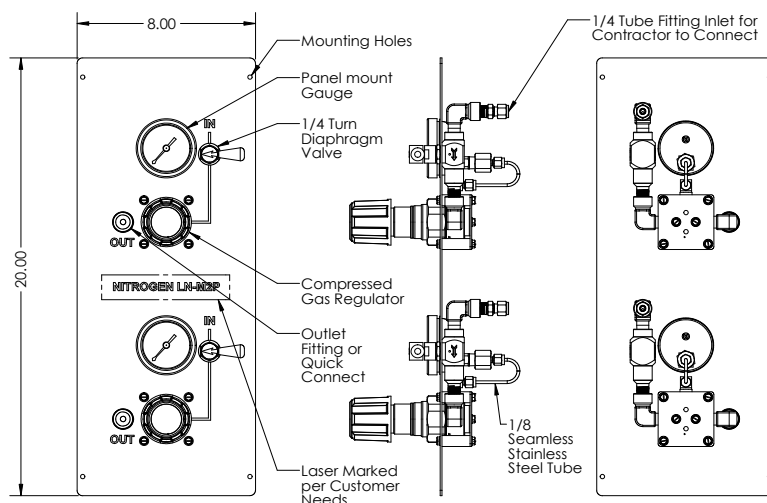
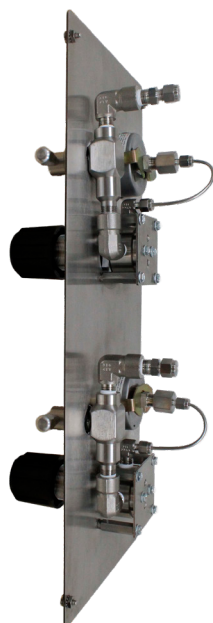
Materials and Specifications

- Maximum Inlet Pressure (bare body):** 3000 PSIG (210 BAR)
- Regulator and Valve Bodies:** 316L stainless steel barstock
- Regulator Filter:** 10-micron 316 stainless steel mesh
- Regulator Seals:** PTFE
- Seats:** PTFE (regulator); PCTFE (valve)
- Diaphragms:** 316L stainless steel (regulator); Elgiloy® (valve)
- Cv:** 0.1 (regulator); 0.17 (valve)
- Helium Leak Integrity:** 1×10^{-8} scc/sec (assembled)
- Gauge:** 2 in (50 mm) diameter stainless steel case
- Temperature Range:** -40°F to 140°F (-40°C to 60°C)
- Enclosure:** 18 AWG steel, powdered coated white
- Conformances:** Cleanliness meets or exceeds CGA G-4.1; ANSI/ASME B40.1; CRN OH5216

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Sample Panel Design



Additional Configurations

Series	Part Number	Gas Service	Description
5F	5FS1040469-01-001	Argon	One regulator panel
	5FS1070470-01-001	Carbon Dioxide	One regulator panel
	5FS1100471-01-001	Helium	One regulator panel
	5FS1160472-01-001	Nitrogen	One regulator panel
	5FS2070473-01-001	CO2/CO2	Two regulator panel
	5FS2070474-01-001	CO2/N2	Two regulator panel