Cross Purge Control Panel
For Corrosive Liquefied Gases
Model JA-P1

Our cross purge control panel is ideal for controlling corrosive gases that are packaged as liquefied compressed gases such as H₂S, HCl, SO₂ and Cl₂. It permits manual pressure control to provide precise and safe delivery of high-purity, toxic, corrosive and flammable acid-forming gases that are corrosive in the presence of moisture.

A cross-purge assembly featuring three diaphragm-seal valves reduces risk of exposure to toxic and hazardous gases, plus helps ensure continuous operation of a contaminant-free system. An isolation valve permits isolation of the system downstream of the purge assembly, while purge and vent valves permit easy purging and venting. Thus, during initial system start-up or when changing gas cylinders, our panel provides a safe and convenient means of flushing a distribution system with a dry purge gas such as nitrogen.

As an added safety feature, our cross purge control panel comes equipped with a LifeGuard™ safety hose that is self-sealing in the event of a hose rupture, thereby minimizing the chance of releasing toxic gases that may be in use. Stainless steel components include a single-stage Model 217 tied-diaphragm regulator and diffusion-resistant diaphragm seal valves. Pressure relief and process check valves maintain a high level of purity and safety for all types of gases. Lever-activated valves that operate from “fully closed” to “fully open” in a quarter-turn, allow for quick activation and provide positive visual ID of open/closed status. Color-coded handles also serve as a visual aid in process control.

Benefits/Features
- Bar stock body, tied-diaphragm, single-stage regulator with all metal-to-metal diaphragm to body seal (without backup o-ring) design provides for low internal volume, high leak rate integrity, and high-purity control
- LifeGuard safety hose protects against the potential hazardous effects of high-pressure hose rupture, pull-apart, whipping and failure
- Reduced footprint allows for fitting into tight gas cabinets and OEMs shelters
- Quarter-turn diaphragm seal valves never require packing adjustments and have lever-type color coded handles that serve as a visual aid in process control
- Panels are designed to meet <2 x 10⁻⁸ scc/sec helium leak rate
- All materials of construction are compatible with corrosive sulfurs and chlorinated gases
- Relief valve protects regulator and system from over-pressurization
- Check valves prevent back flow of gas
- Components are assembled using compression or pipe thread connections to facilitate installation
- Control panels are helium-leak and pressure-hold tested
- Stainless steel back-plate has predrilled mounting holes
- Custom designed panel configurations can be engineered to meet special installation needs

Optional Equipment
- Purge gas regulator panel: provides purge gas pressure control
- Cylinder scale: recommended for measuring contents of a liquefied compressed gas cylinder
- Cylinder heating and insulating jackets: recommended for cylinders used in colder environments
- Gas safety cabinets: provide a means to isolate hazardous gas cylinders and control panel from workplace
- Fixed gas detection equipment: gas detectors, transmitters and sensors
- Cylinder support stands and brackets
- Longer pigtail lengths
- Various inlet and outlet connections

Air Liquide America Specialty Gases LLC
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Specifications
Inlet Pressure (maximum): See table
Operating Temperature: -15°F to 140°F (-26°C to 60°C)
Regulator: Model 217
Flow Coefficient:
Regulator: Cv = 0.05
Diaphragm Valves: Cv = 0.15
Gauge Size: 2" face (50.8 mm)
Inlet Connections:
Models with pigtails: Specify CGA
Models without pigtails: 1/4" compression
Outlet Connection: 1/8" compression
Pigtails: LifeGuard™ flexible safety hose (Model LGS), 36" long, 1/4" nominal ID, 0.64" nominal OD, double-braided, convoluted stainless steel inner liner
Panel Dimensions (12-gauge):
Vertical: 10" W x 12" H x 0.105" D (254 mm x 305 mm x 2.7 mm)

Materials of Construction
Regulator and Valve Bodies: 316 Stainless Steel
Diaphragms: 316 Stainless Steel
Seals: PCTFE
Seats:
Regulator and Valves: PCTFE
Relief Valve: Hifluor FKM
Check Valves:
Purge: FKM
Process and Vent: Hifluor FKM
Gauges: 316 Stainless Steel
Pigtails:
Model LGS LifeGuard™ flexible safety hose
Innercore and End Fittings: 316 Stainless Steel
Internal Safety Cable, Valve Retainer and Snap Ring: 316 Stainless Steel
Overbraid: 304 Stainless Steel
Panels and Brackets:
Brushed 304 Stainless Steel

Ordering Information

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Inlet Pressure (maximum)</th>
<th>Cylinder Pressure Gauge (dual scale)</th>
<th>Delivery Pressure Range</th>
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Where (CGA) is indicated, insert appropriate Compressed Gas Association (CGA) connection number to complete the model number.
Example: QJAP1-6G-B-(CGA). Please order by complete model number.
Optional purge control panels are available - please contact your Air Liquide representative.