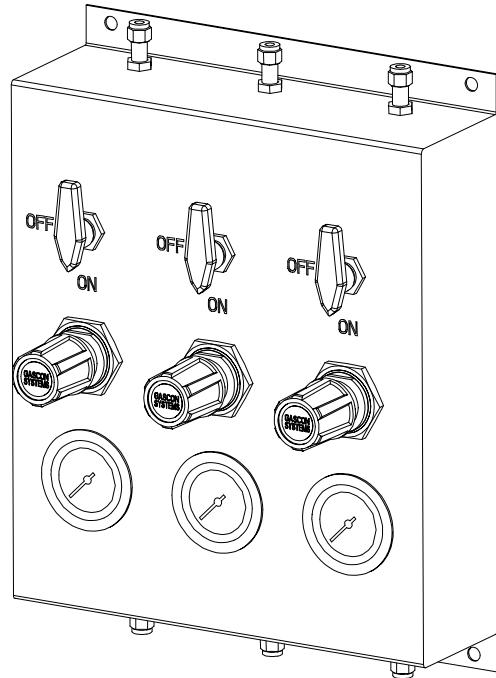


# FULLY ENCLOSED SURFACE MOUNT GAS PANELS

Gascon Systems surface mount gas panels are designed to act as a master control station, regulating the final supply to an end process from of a gas reticulation system.

The panels consist of inlet fittings, supply isolation valves, pressure regulators fixed on a stainless wall mount bracket. The bracket is secured to the wall using four 3/8" bolts.

Typical applications are



A range of options are available on each component within the panels. They are:

## INLET FITTINGS

The standard inlet fittings are 1/4" tube compression fitting. These are available in either brass or stainless steel. Other inlet fittings are available on request.

## ISOLATION VALVES

The standard isolation valves are brass with teflon seals. Stainless steel valves are available for corrosive gases or where the panel may be used in a corrosive environment.

## REGULATORS

For non corrosive gases the regulator bodies are made from nickel plated brass. A selection of diaphragm materials are available to suit specific applications. There are:

- Elastomer diaphragm for industrial applications (up to grade 3.5 gases),
- Teflon coated elastomer diaphragms for laboratory applications (up to grade 4.5 gases),
- 316L stainless steel diaphragms for ultra high purity applications (up to grade 5.5 gases).

For corrosive gases the regulator bodies are made from 316L stainless steel, and have 316L stainless steel seats and diaphragms.

All regulators are available in a range of different outlet pressures, (eg. 0-200kPa, 0-450kPa, 0-800kPa, 0-1400kPa, ....)

**Note:** The corrosive gas regulators are not suitable for certain corrosive gases. Contact Gascon systems for further information.

## OUTLET FITTINGS

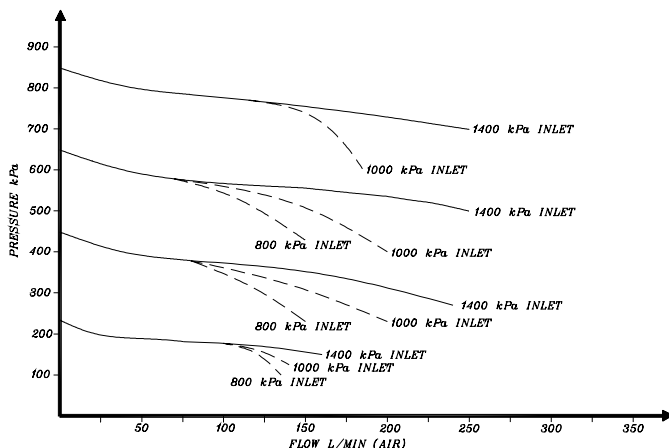
The standard outlet fittings are 1/4" tube compression fitting. These are available in either brass or stainless steel. Other outlet fittings are available on request, (other size compression fittings, 5/8"-18UN left and right hand threaded welding connections, flow control valves...).

## PANEL SPECIFICATIONS

Maximum inlet pressure: 20,000 kPa @ 15°C  
 Maximum outlet pressure: 3000 kPa  
 Inlet fitting: 1/4" tube as standard (other options available)  
 Outlet fitting: 1/4" tube as standard (other options available)

## FLOW PERFORMANCE

(typical flow curves, actual flows may vary slightly depending on options selected)



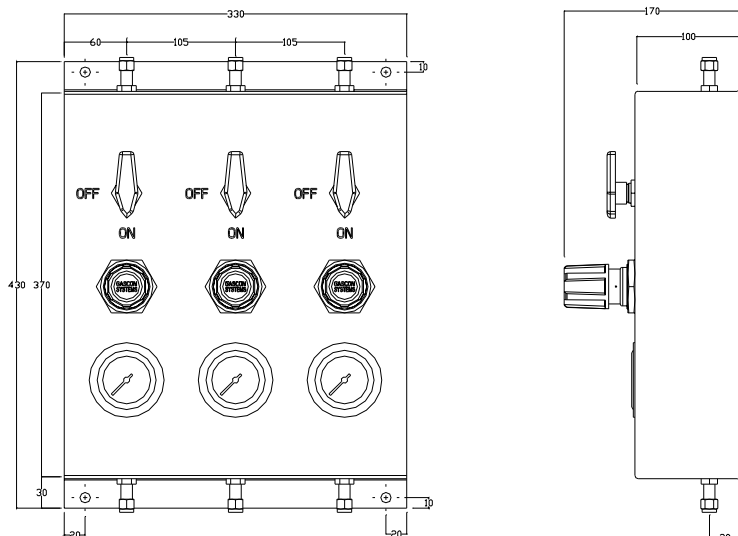
### Gas System Design

When designing gas reticulation systems, the total system design must be considered to ensure safe, trouble-free performance. Component function, material compatibility, proper installation, operation, and maintenance are the responsibilities of the system designer and system user.

It is advised that system installers and users be familiar with the recommendations detailed in appropriate national standards, (eg. AS4289 Oxygen and Acetylene Gas Reticulation Systems).

In the interests of continuous improvement, Gascon System Pty Ltd, reserves the right to change the specifications or design of any of its products without prior notice.

## BASIC DIMENSIONS



Dimensions shown in the figure are for a seven gas panel. A single gas panel has an overall width of 160mm. For panels with more than one gas simply add 80mm per addition gas to obtain the overall panel width, (ie 4 gas panel = 160 + (3 X 80) = 400mm).

## ORDERING INFORMATION

G0385-XX where XX is the number of separate gases.  
 Also include the desired maximum outlet pressure of each regulator and any other options required.

### Example:

G0385-3  
 Gas 1 = Helium, maximum outlet 450kPa  
 Gas 2 = Acetylene, maximum outlet 150kPa, stainless steel inlet and outlet fittings  
 Gas 3 = Nitrous Oxide, maximum outlet 450kPa

**GASCON**  
 SYSTEMS

**Gascon Systems Pty. Ltd.** ABN: 74 716 626 338  
 Unit 11, 1 Bell Street, PRESTON VIC 3072, AUSTRALIA  
 PH: 61-3-9484 4190 FX: 61-3-9484 0368  
 Email: sales@gascon.com.au  
<http://www.gascon.com.au>

0503