

## **Scientific & Technical Gases**

# **DataSheet for Gas Control Regulators**

**Units 1&2, Speedwell Road  
Parkhouse Ind. Estate East  
Newcastle-Under-Lyme  
ST5 7RG  
UK**

**Tel: 44-1782 566897**

**Fax: 44-1782 564906**

**Email: [info@stgas.eu](mailto:info@stgas.eu)**

# Data sheet - Gas Control Regulators 1



Selection of the correct type of regulator is extremely important, and as specialists in handling gases, with our experience we are qualified to be able to recommend the best options for your application.

Our range consists of the more economical brass construction with man made diaphragms for example Neoprene, and the high purity range of brass and stainless steel construction with stainless or hasteloy diaphragms.

The usual considerations on which the quality of a regulator to select is based on the following parameters;

- Overall gas or mixture purity; gases above 99.995% and low ppm blends generally need a higher integrity regulator. This can guarantee low diffusion leakage rates, so as to avoid ingress of atmospheric contamination.
- The general rule is that stainless steel is used for pure reactive / corrosive gases and mixtures of these at ppm or % level.

There are normally two types of gas control regulator, and the correct selection depends on the following;

- If gas is in continuous use, and a steady outlet flow is required, a two stage regulator is required.
- If in brief short term use, and used in conjunction with a flow meter to set the outlet flow, or in applications which are not very flow sensitive, a single stage regulator is suitable.

# Data sheet - Gas Control Regulators 2

## Model STG Eco Brass ( B )

This brass regulator range gives value for money and good reliable performance, the benefits are;

- Most economical regulator
- Suitable for up to medium purity 99.995% carrier gases
- Can be used on non corrosive gases and % gas mixtures

Inlet cylinder connection included, and outlet can be hose barb for push on tubing, compression fitting or ¼ inch NPT(F), other outlets on request.

All BS, DIN and CGA cylinder connectors available



## Model STG Chromed Brass (CB)

Chromed regulators are of a high specification and tend to be used in a laboratory environment. The benefits are;

- Cosmetically pleasing
- Suitable for up to 99.999% carrier gases
- For non corrosive gases and mixtures down to ppm level

Inlet cylinder connection included, and outlet can be hose barb for push on tubing, compression fitting or ¼ inch NPT(F), other outlets on request.

All BS, DIN and CGA cylinder connectors available



# Data sheet - Gas Control Regulators 3

## Model STG Stainless Steel (SS )



Stainless steel regulators are of the best manufacturing specification, and are used for the highest integrity applications. Th benefits are;

- Suitable for low ppm mixtures of corrosive gases
- Used for pure chemical gases
- For gas purities up to 99.9999%

Inlet cylinder connection included, and outlet can be hose barb for push on tubing, compression fitting or ¼ inch NPT(F), other outlets on request.

All BS , DIN and CGA cylinder connectors available.

## How to specify a regulator

<b>STG – B1</b>	<b>- 4 -</b>	<b>BS4</b>	<b>-14F</b>
B= Brass S= Stainless steel CB= Chromed brass 1= Single stage 2= Two stage	Maximum Outlet pressure	Inlet fitting	Outlet Fitting 14= ¼"NPT 18= 1/8" NPT F= Female M= Male HB= Hose barb SW= Compression

# Data sheet - Gas Control Regulators 4

More specialised regulators for specific controlled applications



## DIAL a Flow Regulator

This is regulator that can take up to 200 bar inlet of a non corrosive gas or gas mixture, and drop to a "dial up" flow of 0.3lt, 0.5lt, 0.7lt, 1.0lt, 1.5 lt, 2.0lt, 2.5lt or 3.0 litres per minute

## Gas Change over Units

These can be semi-automatic for ease of change-over, or totally automatic for change-over when staff are not present. There are many permutations that we can assemble so please fully discuss your specific requirements with our sales engineers .



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## Point of Use Panels

To give total gas control at the actual point of use, we can supply various panels ready made or built to your specification. Please liaise with us to fully specify your requirements

## Special Regulators

There are many regulators that we can supply for specialised applications ;

- High Outlet pressure
- Very Low outlet pressures
- Heated regulators
- Regulators with pressure switches
- Custom engineered options

Please call our sales engineers to discuss your particular needs, with our many years of gas handling experience we are confident we can assist you.

