THE DRINKS DISPENSE INDUSTRY
EQUIPMENT FOR GAS SUPPLIER SYSTEMS

GCE druva®

THE GCE BUSINESS

GCE has almost 100 years of experience in the manufacture and supply of high pressure gas equipment. During this time the GCE product range has increased dramatically. Today´s product portfolio fits a large variety of applications, from simple pressure regulators and blowpipes for cutting and welding to highly sophisticated gas supply systems for the medical, electronic and analytical industries.

GCE GROUP INCLUDES FOUR BUSINESS AREAS:

> Cutting & Welding Technologies
> Valves
> Healthcare
> Druva

ORIGINS

The origins of GCE (Gas Control Equipment) go back to the start of the 20th century when Gas Welding was first invented. The GCE group was formed as an independent company in 1987 through the merging of two of the worlds leading gas and welding companies into one independent unit. GCE has grown rapidly since its establishment and is leading the restructuring of the European gas equipment industry through mergers and acquisitions.
Through its extensive Research and Development programs GCE has set standards that have become the benchmark for the whole industry.

GCE SERVICES

The main industrial customers for GCE are wholesalers and local distributors. However in some markets GCE distributes equipment with the full cooperation of the main gas supplier for that market.
For these companies GCE provides both commercial and technical support.
A significant part of the sales volume in this area also comes from key end user accounts such as shipyards, repair shops, OEM customers and welding machine manufacturers.

GCE DRUVA

Specialty, industrial and fuel gases are used in various industries to initiate, stabilize and avoid chemical processes and to supply the energy need for industrial processes. These gases are often provided in highly purified form and have either flammable, toxic or corrosive properties and therefore require specific gas-regulating equipment that is leak-proof and corrosion-resistant and thus does not affect the purity, chemical properties or composition of the given gas. Pressure regulators and valves must ensure safe discharge and transportation of gases without posing any risk to users, devices or buildings. The equipment often has to withstand inlet pressures of several hundred bars and must meet the highest expectations for flow and pressure stability.

Specialty-gas regulators and valves are produced from materials such stainless steel, brass or other metallic alloys. Proper surface treatment and coating, leak-proof connection technology and gas-resistant seals are the key elements of specialty-gas systems that either locally discharge gas or distribute it through pipelines to points of use in facilities and laboratories operating in the chemical, petrochemical, pharmaceutical and other industries.

GCE Druva has been a leader in field of specialty-gas equipment since 1967. With production and service centres in Germany, the Czech Republic and China, GCE's High Purity Division is one of the market leaders in providing system components, solutions and services for specialty, high-purity and fuel gases to engineers, designers, distributors and end-users in all corners of the globe.

PRIMARY REGULATORS

PRIMARY REGULATOR - CO_2

This regulator connects a single CO_2 cylinder to a single ring main for soft drinks systems. The regulator comes complete with inlet stem or HP hose with a BS 8 cylinder fitting for CO_2.

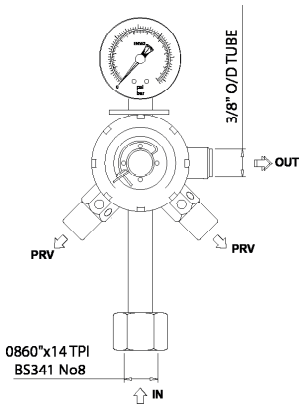
APPLICATION

This regulator is a high outlet pressure regulator to be used for soft drinks only unless used to supply gas to a blender enhancer or nitrogen generation system. The higher outlet pressure allows the regulator to be used directly for the carbonation of the water aswell as supply of CO_2 gas to the secondary regulators, typically used in conjunction with the twin secondary regulator for the syrup gas pumps.

Art.-Nr.	Description	Gas
MM4057	Single stage regulator	CO_2

TECHNICAL DATA	
Max inlet pressure:	138 bar
Working pressure:	56 bar
Outlet pressure:	6,9 bar
Inlet connection:	BS341 No. 8
Outlet connection:	3/8" O/D John Guest
Relief valve settings:	9 bar
Flow:	50 L/min

BASIC DIMENSIONS



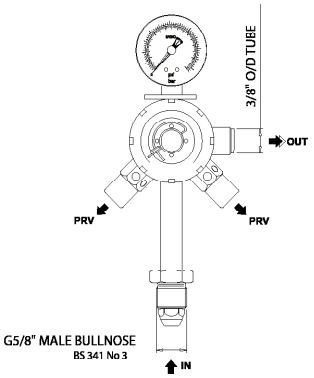
PRIMARY REGULATOR - MIXED GAS

Art.-Nr.	Description	Gas
MM4050	Single stage wall regulator	Mixed gas

TECHNICAL DATA	
Max inlet pressure:	276 bar
Working pressure:	230 bar
Outlet pressure:	2,6 bar
Inlet connection:	BS341 No. 3
Outlet connection:	3/8" O/D John Guest
Relief valve settings:	3,8 bar
Flow:	50 L/min

** 1 bar = 14,5 psi*

BASIC DIMENSIONS



PRIMARY REGULATOR WITH WALL BRACKET - CO_2

This wall-mounted twin regulator for CO_2 is fitted in the higher pressure of a soft drinks single ring main.
To used in conjunction with single wall mounted CO_2 primary regulator or bulk supply from other source.
Standard outlet fittings are 3/8" John Guest.
Please specify system application to ensure correct safety valves are employed.

APPLICATION

This twin regulator is to be used for soft drinks syrup/postmix gas pumps. The twin regulator setup is used to supply 2 different pressures for the gas pumps on sugared and non sugared soft drinks. Typically used in conjunction with MM4059 single stage wall mounted regulator.

Note: Additional inline relief valves may be required.

Art.-Nr.	Description	Gas
MM4059	Single stage wall regulator	CO_2

**basic version without electric sensors*

TECHNICAL DATA	
Max inlet pressure:	138 bar
Working pressure:	56 bar
Outlet pressure:	7,6 bar
Inlet connection:	BS341 No. 8
Outlet connection:	3/8" O/D John Guest
Relief valve settings:	9 bar
Flow:	50 L/min

**basic version without electric sensors*

PRIMARY REGULATOR WITH WALL BRACKET - MIXED GAS

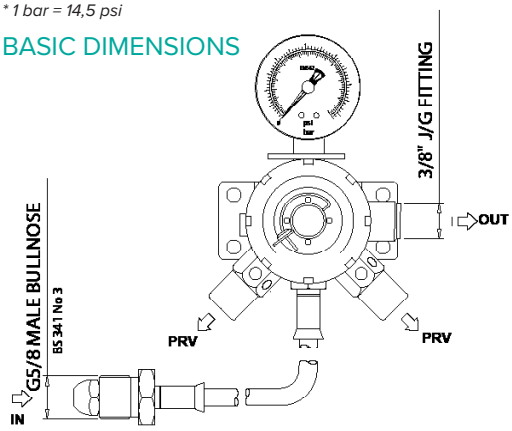
Art.-Nr.	Description	Gas
MM4052	Single stage wall regulator	Mixed gas

**basic version without electric sensors*

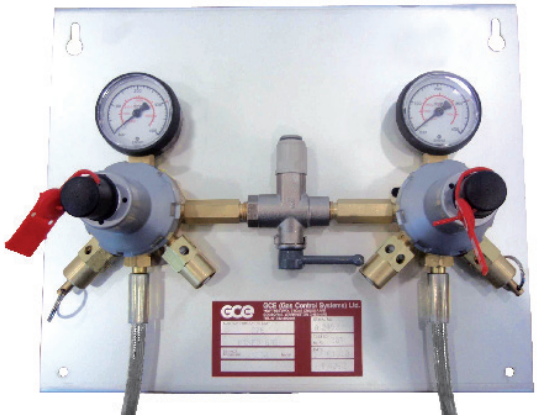
TECHNICAL DATA	
Max inlet pressure:	276 bar
Working pressure:	230 bar
Outlet pressure:	2,6 bar
Inlet connection:	BS341 No. 3
Outlet connection:	3/8" O/D John Guest
Relief valve settings:	3,8 bar
Flow:	50 L/min

** 1 bar = 14,5 psi*

BASIC DIMENSIONS



TWIN REGULATOR



TWIN REGULATOR & LP CHANGEOVER VALVE - CO_2

This wall-mounted panel connects two or more CO_2 cylinders to a single ring main, kegs, or soft drinks systems, depending on the delivery pressure/relief valve selection. Two single stage regulators and a low pressure changeover valve are mounted on a panel, with standard outlet fitting 3/8" John Guest.
Please specify system application to ensure correct safety valves are employed.

APPLICATION

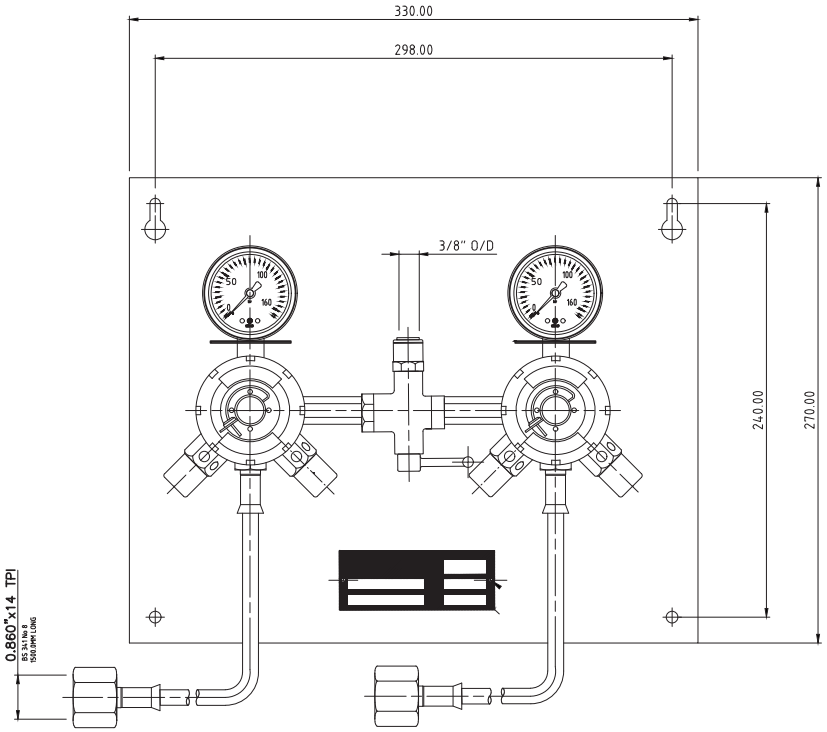
This panel allows two or more CO_2 cylinders to be connected into a single ring main feeding blender units, kegs or soft drinks systems, where high volumes of gas are used and a backup cylinder is required. This allows continuous gas supply during busy periods by the simple operation of switching the low-pressure valve from the empty cylinder to a full cylinder.

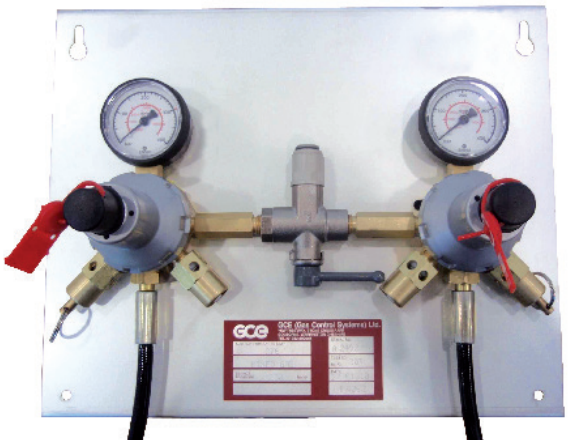
Art.-Nr.	Description	Gas
MM4063	Twin regulator & LP Changeover Valve	CO_2
MM4064	Twin regulator & LP Changeover Valve	CO_2

TECHNICAL DATA		
Max inlet pressure:	276 bar	
Working pressure:	230 bar	
Outlet pressure:	MM4063	2,6 bar
	MM4064	7,6 bar
Inlet connection:	BS341 No. 3	
Outlet connection:	3/8" O/D John Guest	
Relief valve settings:	MM4063	3,0 bar
	MM4064	9,0 bar
Flow:	50 L/min	

** 1 bar = 14,5 psi*

BASIC DIMENSIONS





TWIN REGULATOR & LP CHANGEOVER VALVE - MIXED GAS

This wall-mounted panel connects two or more Mixed Gas cylinders to a single ring main, kegs, or soft drinks systems, depending on the delivery pressure/relief valve selection. Two single stage regulators and a low pressure changeover valve are mounted on a panel, with standard outlet fitting 3/8" John Guest.
Please specify system application to ensure correct safety valves are employed.

APPLICATION

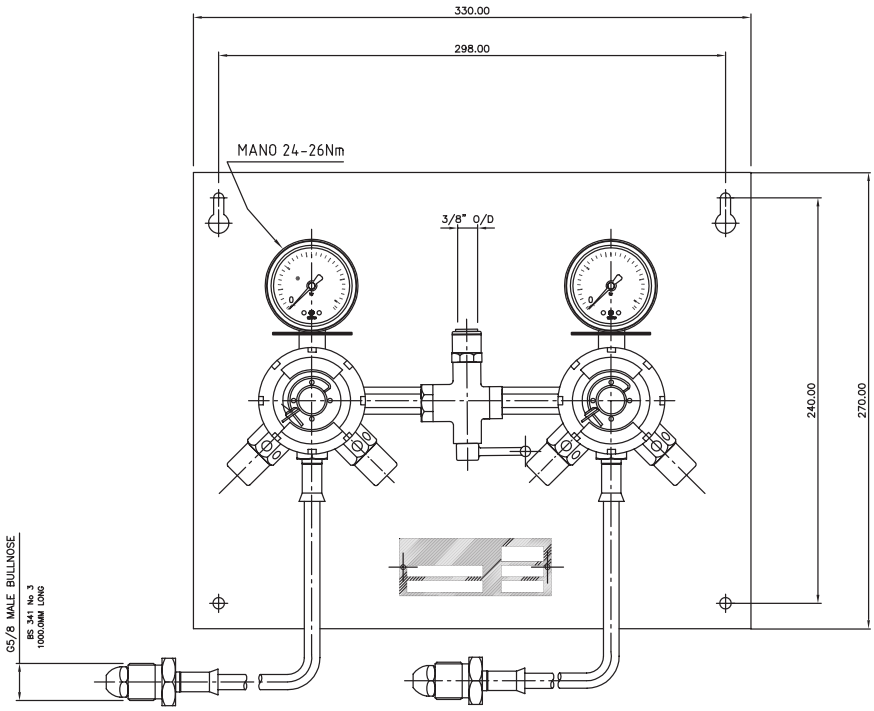
This panel allows two or more Mixed Gas cylinders to be connected into a single ring main feeding blender units, kegs, where high volumes of gas are used and a backup cylinder is required. This allows continuous gas supply during busy periods by the simple operation of switching the low-pressure valve from the empty cylinder to a full cylinder.

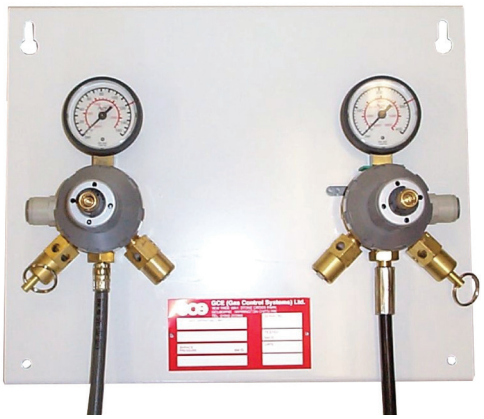
Art.-Nr.	Description	Gas
MM4061	Twin regulator & LP Changeover Valve	Mixed gas
MM4062	Twin regulator & LP Changeover Valve	Mixed gas

TECHNICAL DATA		
Max inlet pressure:	276 bar	
Working pressure:	230 bar	
Outlet pressure:	MM4061	2,6 bar
	MM4062	7,6 bar
Inlet connection:	BS341 No. 3	
Outlet connection:	3/8" O/D John Guest	
Relief valve settings:	MM4061	3,8 bar
	MM4062	9,0 bar
Flow:	50 L/min	

** 1 bar = 14,5 psi*

BASIC DIMENSIONS





MIXED GAS REGULATOR WITH CO_2 REGULATOR PANEL

Basic one cylinder panel for both CO_2 and mixed gas, suitable for connection into a blender system, (can be connected to kegs only if additional secondary regulators are used downstream).
Comprises of single stage CO_2 and mixed gas regulators, two high-pressure
connecting hoses, and cylinder contents gauges. Outlet pressures are pre-set and locked, with a tamper proof seal. Outlet pressure must be specified at the time of ordering. Downstream equipment is protected by two pressure relief valves fitted to the low-pressure side of each regulator.
The standard outlet fitting are 3/8" John Guest.

APPLICATION

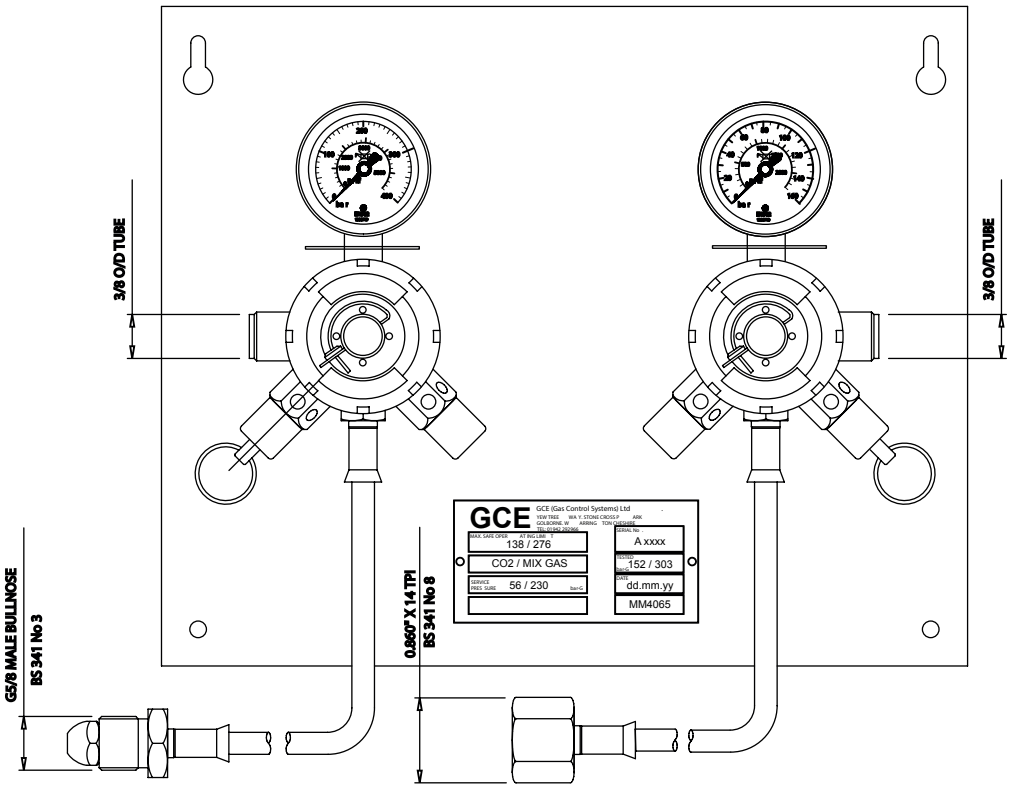
Simple supply system for blender panels. Note this panel is unsuitable for direct connection to kegs or syrup pumps etc. unless additional secondary pressure regulator(s) are fitted downstream of the panel.

Art.-Nr.	Description	Gas
MM4066	Mixed Gas regulator with CO_2 regulator panel	Mixed gas

TECHNICAL DATA		
	Mixed gas	**CO_2**
Max inlet pressure:	276 bar	138 bar
Working pressure:	230 bar	56 bar
Outlet pressure:	7,6 bar	7,6 bar
Inlet connection:	BS341 No. 3	BS341 No. 8
Outlet connection:	3/8" O/D John Guest	3/8" O/D John Guest
Relief valve settings:	9 bar	9 bar

** 1 bar = 14,5 psi*

BASIC DIMENSIONS



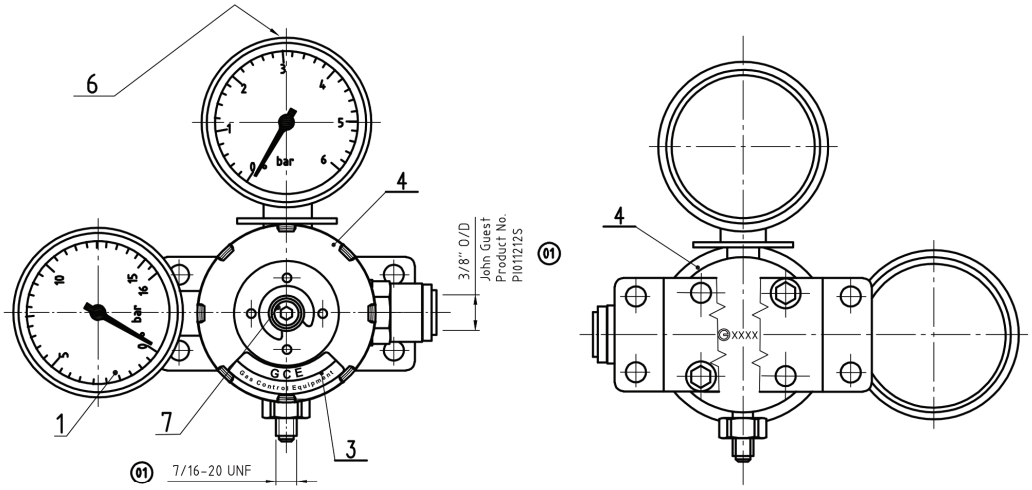
LINE REGULATOR MIXED GAS

Art.-Nr.	Description	Gas
F20410013	Single stage line regulator	Mixed gas

TECHNICAL DATA	
Max inlet pressure:	10 bar
Outlet pressure:	4,14 bar preset
Inlet connection:	7/16-20 UNF
Outlet connection:	3/8" O/D John Guest
Inlet pressure gauge:	ISO5171; 16 bar scale
Delivery pressure gauge:	ISO5171; 6 bar scale

** 1 bar = 14,5 psi*

BASIC DIMENSIONS



SPARE PARTS

Art.-Nr.	Description
1280803P	Flexi G1/4LH-BS341 No. 8 KS50 (10 pcs)
1280389P	Flexi G1/4LH-BS341 No. 3 KS50 (10 pcs)
9384050P	PRV 130 psi G1/4" ring (100 pcs)
388413351402P	Gauge 50 400 bar 5800 psi (5 pcs)
548904710370P	Conical washer (10 pcs)
9430290	PRV 130PSI G1/4 (10 pcs)
9430710	Gauge D.50 160 bar neutral

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