COMWELD
Gas Control Systems

COMWELD - Company Overview

Turning our quality into your control

COMWELD
Gas Control Systems

QUALITY MANAGEMENT

At COMWELD we are committed to developing and producing innovative products for our customers globally, providing solutions driven through a culture of 'Continuous Improvement'.

The key to this success has been our drive to implement the latest 'Quality Management Systems', ensuring all of our systems meet and exceed global standards.

- ISO 9001:2015 Quality Management System
- ISO 13485:2016 Medical Quality Management System
- CE Marking to Medical Devices Directive 93/42/EEC
- Pressure Equipment Directive 97/23/EC
- Transportable Pressure Equipment Directive 99/36/EC
- International Maritime Dangerous Goods Code (IMDG).
- 100% Helium Leak Testing @ 6.0 Purity.

bsi.

By Royal Charter

Certificate of Registration

QUALITY MANAGEMENT SYSTEM - ISO 13485:2003 & EN ISO 13485:2012

This is to certify that:

Gas-Arc Group Ltd
Vinces Road
Diss
Norfolk
IP22 4WW
United Kingdom

Holds Certificate Number: MD 75333

and operates a Quality Management System which complies with the requirements of ISO 13485:2003 & EN ISO 13485:2012 for the following scope:

The design, manufacture and repair of medical gas control and handling equipment

For and on behalf of BSI:

Frank Lee, EMEA Compliance & Risk Director

Original Registration Date: 28/01/2004
Latest Revision Date: 04/01/2016

Effective Date: 13/01/2016
Expiry Date: 12/01/2019

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QUALITY MANAGEMENT

bsi.

By Royal Charter

Certificate of Registration

QUALITY MANAGEMENT SYSTEM - ISO 9001:2008

This is to certify that:

Gas-Arc Group Limited
Vinces Road
Diss
IP22 4WW
United Kingdom

Holds Certificate Number: Q 05965

and operates a Quality Management System which complies with the requirements of ISO 9001:2008 for the following scope:

The design, manufacture and repair of industrial gas control and handling equipment. The design and manufacture of gas-arc range of welding, cutting and related equipment. The design, manufacture and repair of gas distribution manifolds, control panels, outlet points and accessories.

For and on behalf of BSI:

Frank Lee, EMEA Compliance & Risk Director

Original Registration Date: 11/12/1991
Latest Revision Date: 16/10/2015

Effective Date: 22/10/2015
Expiry Date: 14/09/2018

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BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.
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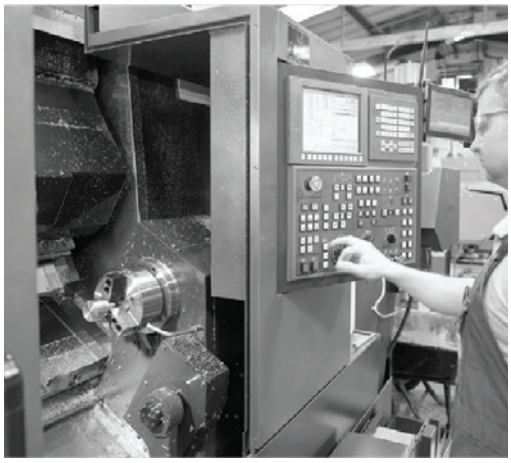
MANUFACTURING

OUR EMPLOYEES MAKE THE DIFFERENCE

PRECISION

We at COMWELD believe that a key ingredient to our success has been our continuous investment in the latest production machinery, techniques and processes.

With our automated 24/7 machining, cleaning and optical inspection facility, we produce over 75,000 products and components each week from a variety of materials to support the vast majority of analytical and production gases.



PRODUCTIVITY

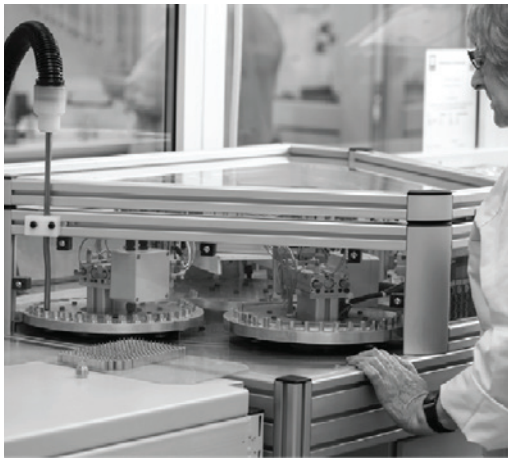
Equipped with a fully integrated documentation scanning solution and automated assembly build work centres.

Our production cells are also equipped with the latest technology, ensuring that our customers' orders are built on time, to specification and to the highest quality. These advanced techniques provide us with the ability to service both large volume consignments and small complex bespoke system designs.

QUALITY

Throughout the entire development and manufacturing process of our products, we are committed to designing and producing solutions that deliver the highest levels of accuracy in gas control

With our end-to-end state-of-the-art design platform and full digitalised product testing laboratory, we map the life performance of our products ensuring they are suited for our end customers applications.



PRODUCT PLATFORM

The COMWELD product platforms are differentiated by purity or type of gas they can support.

Gas Type	Percentage Purity	Purity Grade	Parts Per Billion PPB	Product Platform	
Technical Gases	99.99%	4	20.000	Tech Master – GP Series • Non-corrosive and non-toxic, technical gases • Manufactured from high-grade brass The Tech Master range of products are designed to support technical grade gas control applications, where safety and accuracy is essential. These applications can be found in the industrial production, engineering, fabrication and offshore segments.	
	99.9995%	4.5			
High Purity Gas	99.999%	5	10.000	Lab Master – LG Series • Non-corrosive and non-toxic, high purity gases • Manufactured from nickel-plated brass The Lab Master range of products are designed to support grade 5.0 purity gas applications, where impurity levels of up to 10,000 ppb are permitted. These applications can be found in automated industrial cutting, education research and food production and packaging.	
	99.9999%	6	1.000	Spec Master – HP Series • Non-corrosive and non-toxic, high purity gases • Manufactured from nickel plated brass barstock The Spec Master range of products are designed to support grade 6.0 purity gas applications, where impurity levels of up to 1,000 ppb are permitted. These applications can be found in automated sampling, high-tech research and development, and life science segments.	
Corrosive & Toxic Gases	99.9999%	6	1.000	Chem Master – SG Series • Corrosive, toxic and high purity gases • Manufactured from Stainless Steel The Chem Master range of products are designed to support corrosive, toxic or grade 6.0 purity gas applications, where impurity levels of up to 1,000 ppb are permitted. These applications can be found in automated sampling, environment and clean fuels, and the high-tech production segments.	

COMWELD SOLUTION PROVIDER

With solutions specifically designed for the high purity, laboratory and technical gas regulation segments, Comweld provides a broad portfolio backed by Gasarc engineering excellence.

We offer:

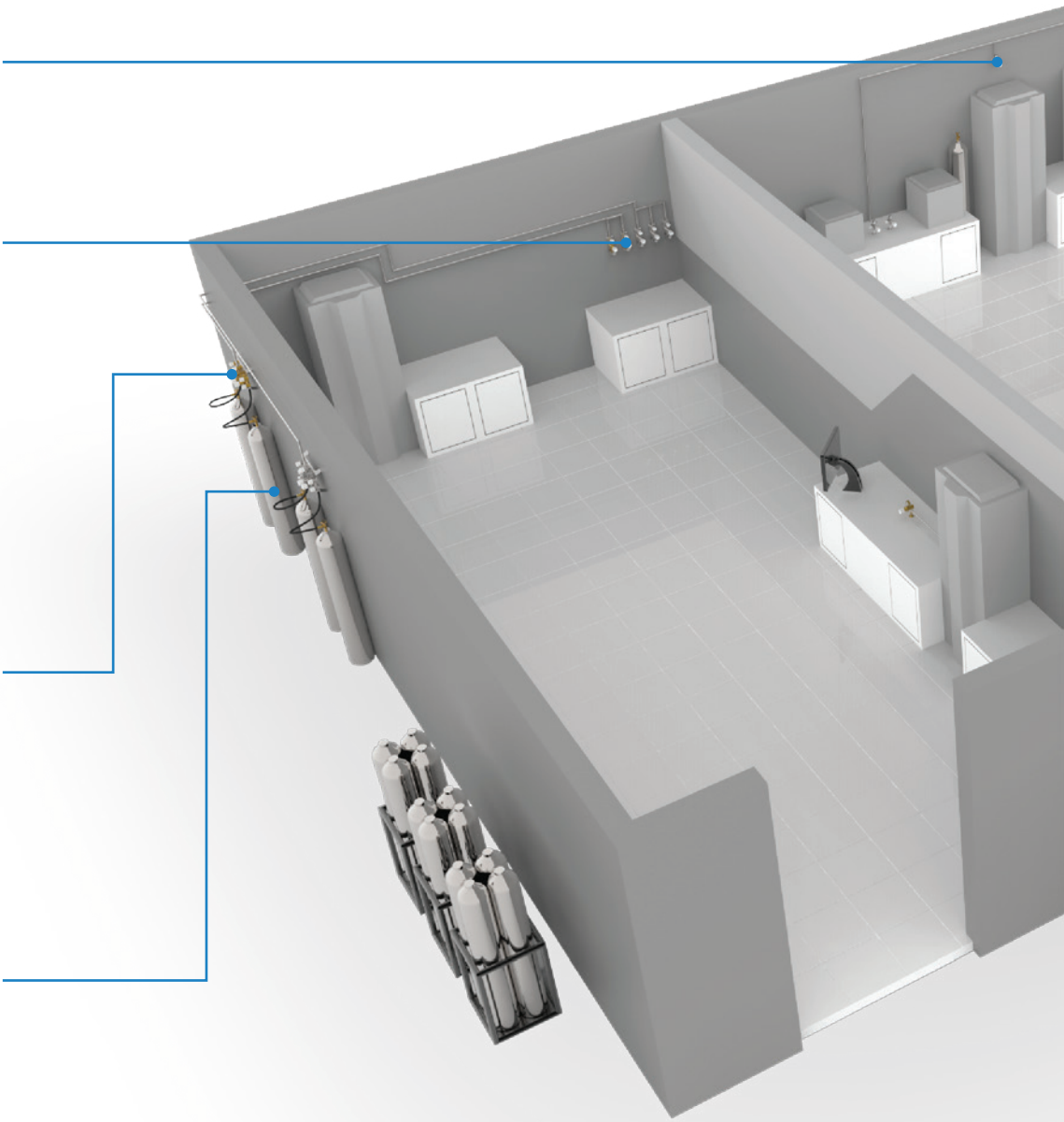
- Guaranteed product quality and reliability
- Extensive global product offering
- Assistance with complex gas control systems and installation
- Global sales support
- Superior quality engineering and manufacturing
- Service excellence

Wall Mounted
Integrated Outlet Point

Wall Mounting
Inline Outlet Point

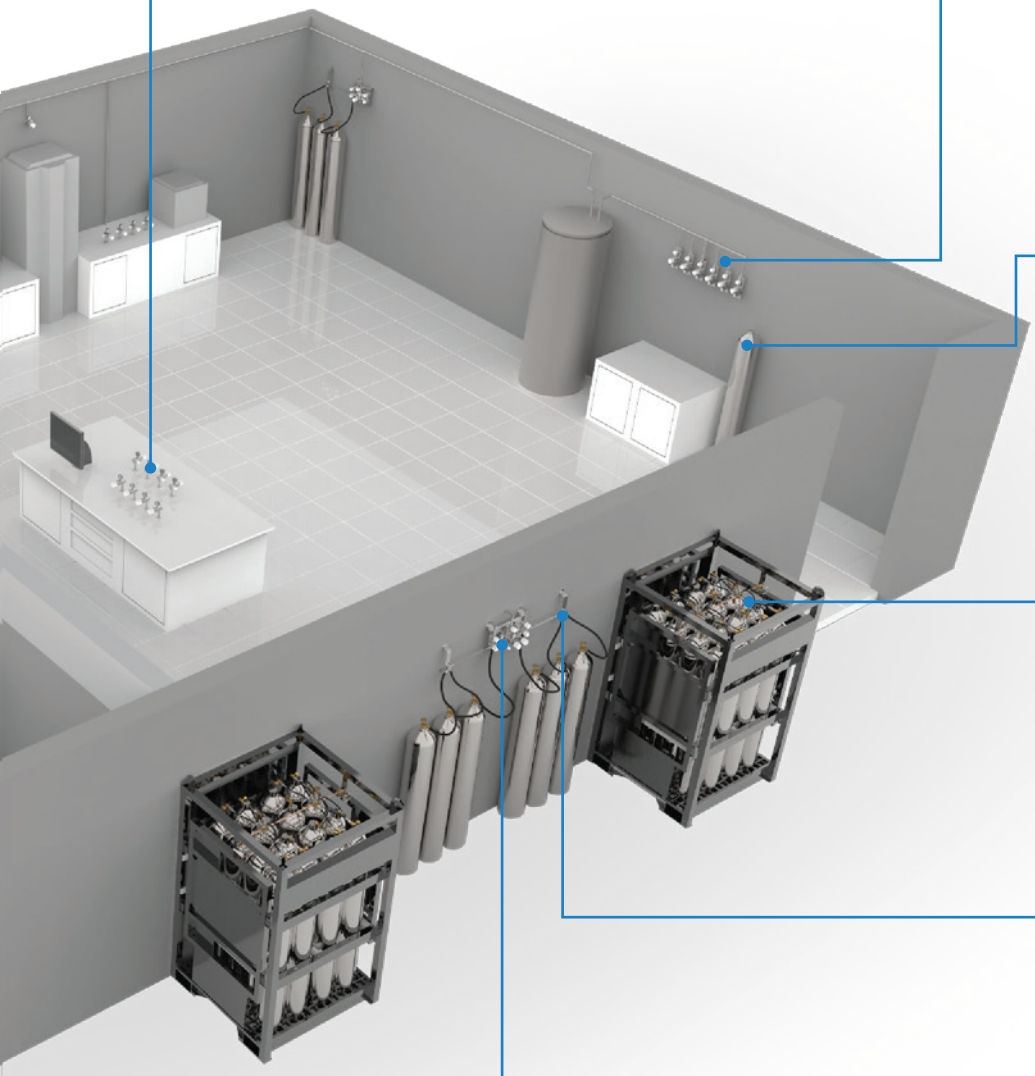
High Pressure
Hoses and Tailpipes

Manual Change
Gas Control Panel



COMWELD SOLUTION PROVIDER

Bench Mounted
Integrated Outlet Points



Valves

Cylinder Mounting
Regulators

Cylinder Bundle
Pack Manifold

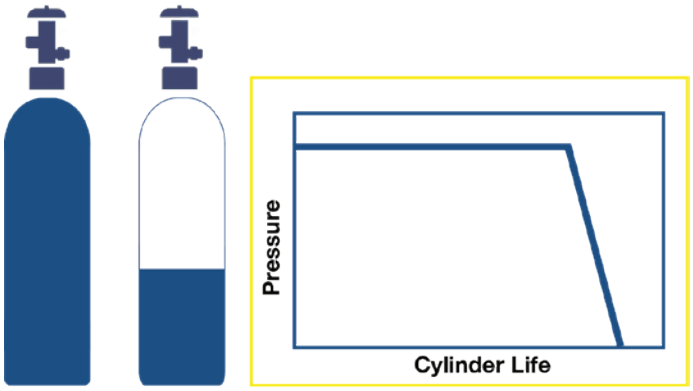
Gas Control
Panel Headers

Pressure Differential
Autocharge Gas Control Panel

LIQUID VAPOUR VERSUS COMPRESSED GAS

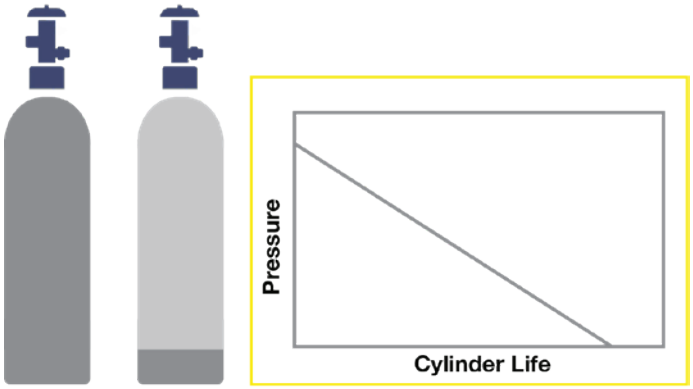
LIQUID VAPOUR

Maintains a constant delivery pressure throughout the life of the cylinder. This will only vary slightly if exposed to extreme changes in ambient temperatures. This provides any downstream equipment with a constant inlet pressure.



COMPRESSED GAS

Constant decrease in pressure throughout the life of the cylinder. This exposes any downstream equipment to a changing inlet pressure.

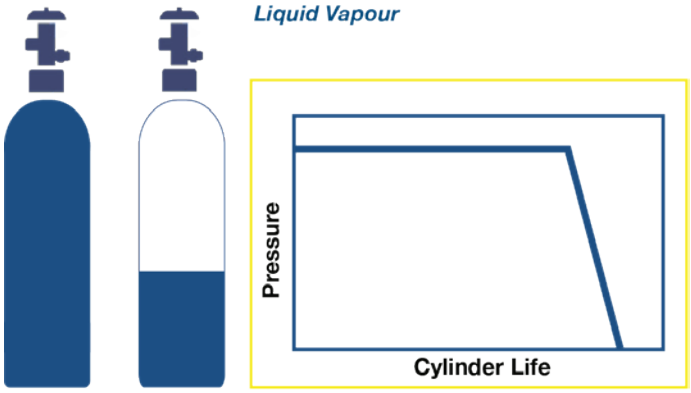


SINGLE STAGE REGULATION

LIQUID VAPOUR

Single Stage Regulation for Liquid Vapour

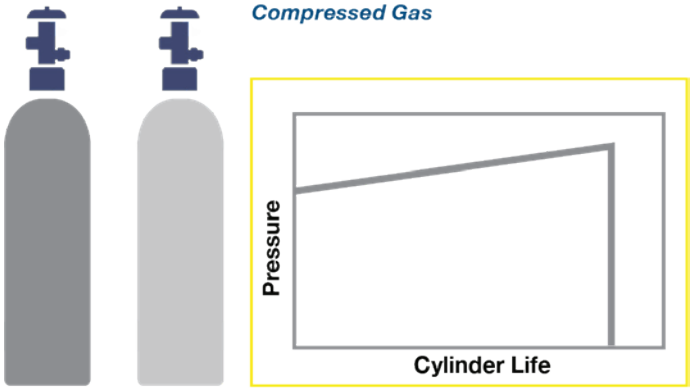
Liquid Vapour offers a constant delivery pressure to the pressure regulator, maintaining the balance with the set process pressure. This provides the user with a stable delivery to the application throughout the life of the cylinder.



COMPRESSED GAS

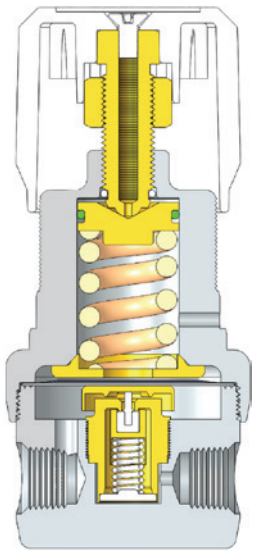
Single Stage Regulation for Compressed Gas

Delivery pressures will progressively decrease to the pressure regulator, losing the balance with the set process pressure. This will cause the outlet pressure of the pressure regulator to rise.



Typical Application

- Liquid Vapour
- Low pressure gaseous applications
- Pipeline installations
- Single operation manual processes

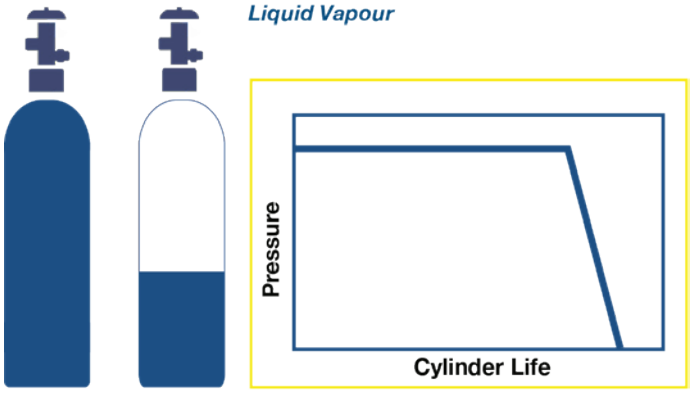


TWO STAGE REGULATION

LIQUID VAPOUR

Two Stage Regulation for Liquid Vapour

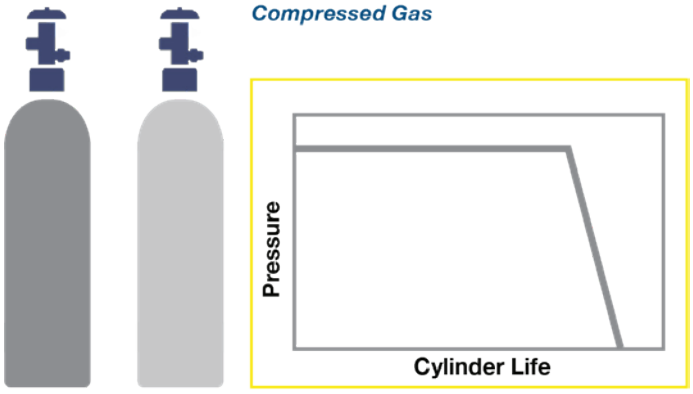
Offers a constant delivery pressure to the pressure regulator, maintaining the balance with the set process pressure. This provides the user with a stable delivery to the application throughout the life of the cylinder.



COMPRESSED GAS

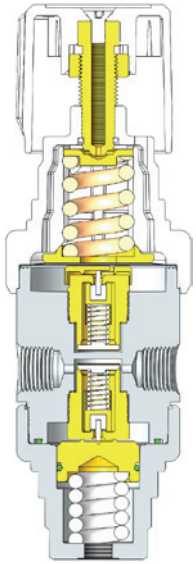
Two Stage Regulation for Compressed Gas

Delivery pressures will progressively decrease to the pressure regulator, losing the balance with the set process pressure. However, the two stage pressure regulator reduces the pressure in two stages, providing the user with a stable delivery to the application throughout the life of the cylinder.



Typical Application

- High pressure gaseous applications
- On demand delivery systems
- Integrated gas management solutions
- Continuous process sampling



QUESTIONS & ANSWERS

SELECTING A COMWELD PRODUCT

1. What gas and gas purity will you be regulating?

This determines what type material your pressure regulator or control panel is made from, along with the correctly selected seat and sealing material.

2. What is the cylinder filled pressure of gas and process pressure requirement for the application?

This will help you determine which inlet pressure and outlet pressure variant best suits your application.

3. Does your application require a stable delivery pressure throughout the life of the application?

This will help you choose either a single or two stage regulator solution.

4. What type of inlet & outlet connection do you need?

COMWELD have a vast portfolio of both inlet and outlet fitting available for configuration, if you do not see the one you require listed, please contact our sales office with the necessary information.

OUR RECOMMENDATION

Our recommendation

CO^2 - Carbon Dioxide should only be used with EPDM seals

O^2 - Oxygen & Oxygen mixtures above 21% Oxygen should NOT be used with Stainless Steel products above 20 bar.

C^2H^2 - We offer a range of products designed specifically for Acetylene Gas.

However, end user has ultimate responsibility for selection of product specification, if in doubt please consult your Gas supplier.

Please note - it is the end users responsibility to ensure the product selection is fit for purpose. If in doubt please consult your Gas supplier.

To assist with seal selection, most Gas Suppliers offer an online material compatibility database to support making suitable material selections for an application including appropriate seal selection, however please note this data is constantly updated and is subject to change at any time.

PURITY TYPE

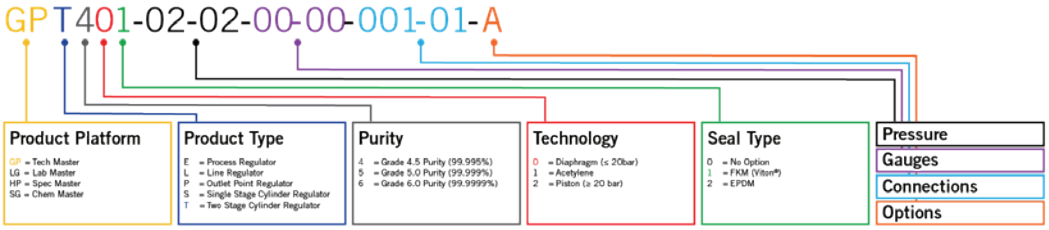
- Chem Master product range is designed for use with corrosive, toxic and high purity gases up to grade 6.0 purity (99.9999%)
- Spec Master product range is designed for use with non-corrosive, non-toxic, high purity gases up to grade 6.0 purity (99.9999%)
- Lab Master product range is designed for use with non-corrosive, non-toxic, high purity gases up to grade 5.0 purity (99.999%)
- Tech Master product range is designed for use with non-corrosive, non-toxic, technical gases up to grade 4.5 purity (99.995%)

PRODUCT CONFIGURATION

REGULATOR

First 6 digits define the Product Type

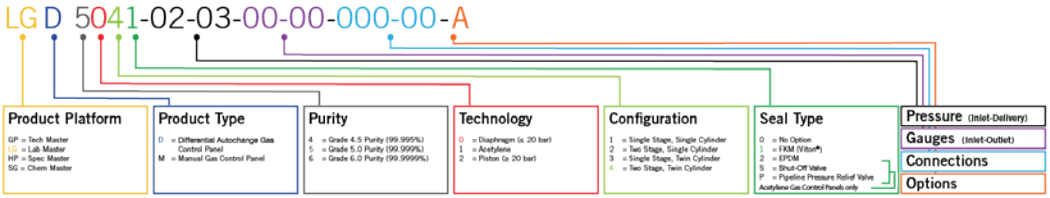
- Tech Master Product Platform
- Two stage cylinder regulator
- Gas Purity 4.5
- Diaphragm Technology
- FKM Seal



CONTROL PANEL

First 7 digits define the Product Type

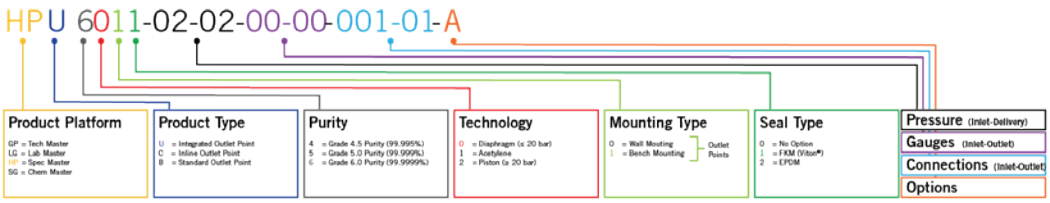
- Lab Master Product Platform
- Differential Autochange Control Panel
- Gas Purity 5.0
- Diaphragm Technology
- Two Stage – Twin Cylinder with FKM Seal



OUTLET POINT

First 7 digits define the Product Type

- Spec Master Product Platform
- Integrated Outlet Point
- Gas Purity 6.0
- Diaphragm Technology
- Bench Mounting with FKM Seal



The NEW COMWELD range is designed to offer our customers the ultimate flexibility in product configuration. Combined with our new product supporting documentation and price guide, we have implemented the latest state-of-the-art integrated ERP system product configuration software, enabling us to offer bespoke complex gas control and distribution systems with market leading deliver lead-times.

REGULATOR PRODUCT RANGE

PROCESS REGULATORS

The COMWELD range of 2 port process regulators are designed to be integrated both into low pressure and secondary phase gas distribution applications with limited space availability, offering our customers a superior gas control experience.

The regulators feature in all 4 of our Tech Master, Lab Master, Spec Master and Chem Master platforms, both in diaphragm and piston control designs where applicable.

They are also available with a selection of seating and sealing materials to support a vast variety of gases or gas mixtures.

Technology / Design	Tech Master GP Series	Lab Master LG Series	Spec Master HP Series	Chem Master SG Series
≤ 20 bar (150 PSI) Diaphragm	GPE40	LGE50	HPE60	SGE60
Acetylene Specific Design	GPE41	LGE51		

LINE REGULATORS

The COMWELD range of line regulators are designed to be integrated both into low pressure and secondary phase gas distribution applications, offering our customers a superior gas control experience.

The regulators feature in all 4 of our Tech Master, Lab Master, Spec Master and Chem Master platforms, both in diaphragm and piston control designs where applicable.

They are also available with a selection of seating and sealing materials to support a vast variety of gases or gas mixtures.

This product is also available for the control of Acetylene gas in our Tech Master and Lab Master platforms.

Technology / Design	Tech Master GP Series	Lab Master LG Series	Spec Master HP Series	Chem Master SG Series
≤ 20 bar (150 PSI) Diaphragm	GPE40	LGE50	HPL60	SGL60
Acetylene Specific Design	GPE41	LGL51		
≥ 20 bar (300 PSI) Piston	GPL42		HPL62	SGL62

REGULATOR PRODUCT RANGE

CYLINDER REGULATORS - SINGLE STAGE

The COMWELD range of single stage cylinder regulators are designed for primary pressure gas control in applications where slight pressure variation from decreasing cylinder pressure is acceptable.

The regulators feature in all 4 of our Tech Master, Lab Master, Spec Master and Chem Master platforms, both in diaphragm and piston control designs where applicable.

They are also available with a selection of seating and sealing materials to support a vast variety of gases or gas mixtures.

This product is also available for the control of Acetylene gas in our Tech Master and Lab Master platforms.

Technology / Design	Tech Master GP Series	Lab Master LG Series	Spec Master HP Series	Chem Master SG Series
≤ 20 bar (150 PSI) Diaphragm	GPS40	LGS50	HPS60	SGS60
Acetylene Specific Design	GPS41	LGS51		
≥ 20 bar (300 PSI) Piston	GPS42		HPS62	SGS62

CYLINDER REGULATORS - TWO STAGE

The COMWELD range of two stage cylinder regulators are designed for primary pressure gas control in applications where constant delivery pressure is required as cylinder pressure decreases.

The regulators feature in all 4 of our Tech Master, Lab Master, Spec Master and Chem Master platforms, both in diaphragm and piston control designs where applicable.

They are also available with a selection of seating and sealing materials to support a vast variety of gases or gas mixtures.

This product is also available for the control of Acetylene gas in our Tech Master and Lab Master platforms.

Technology / Design	Tech Master GP Series	Lab Master LG Series	Spec Master HP Series	Chem Master SG Series
≤ 20 bar (150 PSI) Diaphragm	GPT40	LGT50	HPT60	SGT60
Acetylene Specific Design	GPT41	LGT51		
≥ 20 bar (300 PSI) Piston	GPT42		HPT62	SGT62

CONTROL PANEL PRODUCT RANGE

MANUAL GAS CONTROL PANELS - SINGLE STAGE

The COMWELD range of Single Stage Manual Gas Control Panels are designed for primary control and distribution of process gases in applications where slight pressure variation from decreasing cylinder pressure is acceptable.

The user will benefit via the ability to isolate, purge, control and manage the distribution of gases safely around a large facility or local process.

The control panels feature in all 4 of our Tech Master, Lab Master, Spec Master and Chem Master platforms, available in single or twin cylinder configurations and diaphragm or piston control designs where applicable.

All manual gas control panels are also extendable via a compact modular system, allowing the customer to build in more gas volume by adding multiple gas cylinders to their system. A selection of seating and sealing materials are available to support a vast variety of gases or gas mixtures.

Technology / Design	Cylinder	Lab Master GP Series	Lab Master LG Series	Spec Master HP Series	Chem Master SG Series
≤ 20 bar (150 PSI) Diaphragm	Single	GPM4010	LGM5010	HPM6010	SGM6010
	Twin	GPM4030	LGM5030	HPM6030	SGM6030
≥ 20 bar (300 PSI) Piston	Single	GPM4210		HPM6210	SGM6210
	Twin	GPM4230		HPM6230	SGM6230

MANUAL GAS CONTROL PANELS - TWO STAGE

The COMWELD range of Two Stage Manual Gas Control Panels are designed for primary control and distribution of process gases in applications where constant delivery pressure is required as cylinder pressure decreases.

The user will benefit via the ability to isolate, purge, control and manage the distribution of gases safely around a large facility or local process.

The control panels feature in all 4 of our Tech Master, Lab Master, Spec Master and Chem Master platforms, available in single or twin cylinder configurations and diaphragm or piston control designs where applicable.

All manual gas control panels are also extendable via a compact modular system, allowing the customer to build in more gas volume by adding multiple gas cylinders to their system. A selection of seating and sealing materials are available to support a vast variety of gases or gas mixtures.

Technology / Design	Cylinder	Lab Master GP Series	Lab Master LG Series	Spec Master HP Series	Chem Master SG Series
≤ 20 bar (150 PSI) Diaphragm	Single	GPM4020	LGM5020	HPM6020	SGM6020
	Twin	GPM4040	LGM5040	HPM6040	SGM6040
≥ 20 bar (300 PSI) Piston	Single	GPM4220		HPM6220	SGM6220
	Twin	GPM4240		HPM6240	SGM6240

CONTROL PANELS

PRESSURE DIFFERENTIAL AUTOCHARGE - SINGLE STAGE

The COMWELD range of single stage autochange gas control panels are designed for primary control and distribution of process gases in applications where slight pressure variation from decreasing cylinder pressure and cylinder changeover is acceptable.

The user of the control panels will benefit via the ability to isolate, purge, control and manage the distribution of gases safely around a large facility or local process, without exposing the application to downtime, as the autochange function will provide a seamless changeover between cylinders or cylinder banks at a predetermined low pressure set point.

The control panels feature in all 4 of our Tech Master, Lab Master, Spec Master and Chem Master platforms, both in diaphragm and piston control designs where applicable.

All autochange gas control panels are extendable via a compact modular system, allowing the customer to build in more gas volume by adding multiple gas cylinders to their system.

A selection of seating and sealing materials are available to support a vast variety of gases or gas mixtures.

Technology / Design	Tech Master GP Series	Lab Master LG Series	Spec Master HP Series	Chem Master SG Series
≤ 20 bar (150 PSI) Diaphragm	GPD4030	LGD5030	HPD6030	SGD6030
≥ 20 bar (300 PSI) Piston	GPD4230		HPD6230	SGD6230

PRESSURE DIFFERENTIAL AUTOCHARGE - TWO STAGE

The COMWELD range of two stage autochange gas control panels are designed for primary control and distribution of process gases in applications where constant delivery pressure is required throughout the life of the application.

The user of the control panels will benefit via the ability to isolate, purge, control and manage the distribution of gases safely around a large facility or local process, without exposing the application to downtime, as the autochange function will provide a seamless changeover between cylinders or cylinder banks at a predetermined low pressure set point.

The control panels feature in all 4 of our Tech Master, Lab Master, Spec Master and Chem Master platforms, both in diaphragm and piston control designs where applicable.

All autochange gas control panels are extendable via a compact modular system, allowing the customer to build in more gas volume by adding multiple gas cylinders to their system.

A selection of seating and sealing materials are available to support a vast variety of gases or gas mixtures.

Technology / Design	Tech Master GP Series	Lab Master LG Series	Spec Master HP Series	Chem Master SG Series
≤ 20 bar (150 PSI) Diaphragm	GPD4040	LGD5040	HPD6040	SGD6040
Acetylene Specific Design	GPD4140	LGD5140		
≥ 20 bar (300 PSI) Piston	GPD4240		HPD6240	SGD6240

CONTROL PANEL FOR ACETYLENE

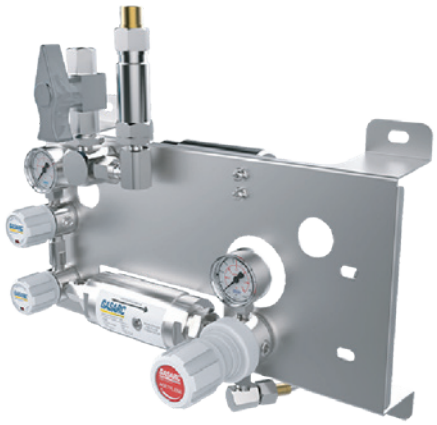
MANUAL - ACETYLENE

The COMWELD range of Acetylene Manual Gas Control Panels are designed for primary control and distribution of Acetylene gas.

The user will benefit via the ability to isolate, purge, control and manage the distribution of Acetylene gas safely around a large facility or local process.

The control panels feature in our Tech Master and Lab Master platforms and are available in single or twin cylinder configurations, that can be extended via a compact modular system, allowing the customer to build in more gas volume by adding multiple gas cylinders to their system.

Acetylene panels feature the latest automatic quick-action shut-off valves technology as standard, designed to arrest potential Acetylene decomposition. Downstream safety options are also available by a selection of pressure activated shut-off valves and pressure relief valves.



Technology / Design	Cylinder	Tech Master GP Series	Lab Master LG Series
Acetylene Specific Design	Single	GPM4110	LGM5110
	Twin	GPM4130	LGM5130

PRESSURE DIFFERENTIAL AUTOCHARGE - ACETYLENE

The COMWELD range of Acetylene Autochange Gas Control Panels are designed for primary control and distribution of Acetylene gas.

The user will benefit via the ability to isolate, purge, control and manage the distribution of Acetylene gas safely around a large facility or local process.

The control panels feature in our Tech Master and Lab Master platforms and are available in single or twin cylinder configurations, that can be extended via a compact modular system, allowing the customer to build in more gas volume by adding multiple gas cylinders to their system.

Acetylene panels feature the latest automatic quick-action shut-off valves technology as standard, designed to arrest potential Acetylene decomposition. Downstream safety options are also available by a selection of pressure activated shut-off valves and pressure relief valves.

Technology / Design	Cylinder	Tech Master GP Series	Lab Master LG Series
Acetylene Specific Design	Twin	GPD4140	LGD5140

ACCESSORIES - COMWELD CONTROL

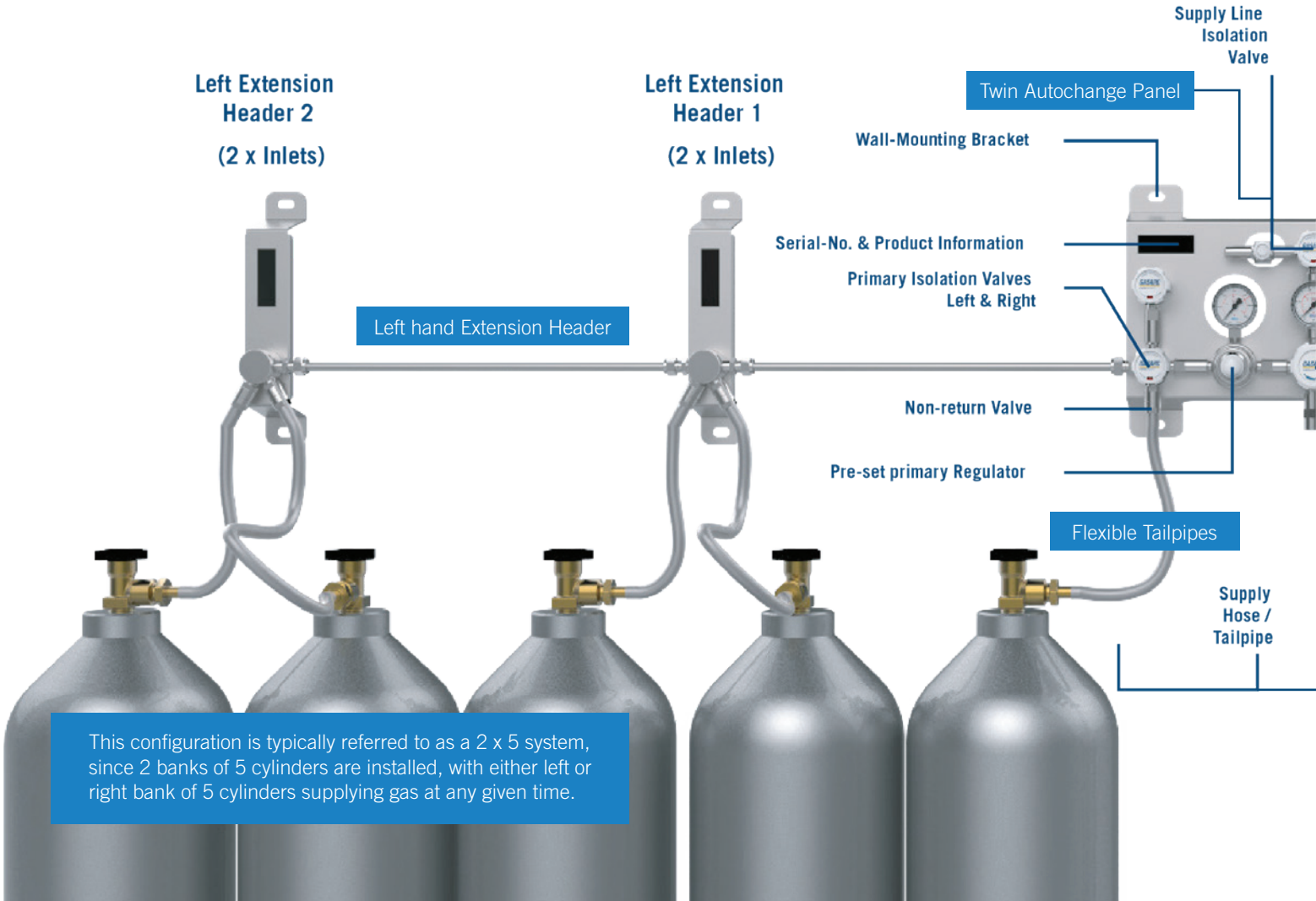
HEADER RAIL ASSEMBLIES

The COMWELD range of header rail assemblies are a compact modular and flexible solution designed to enable the user to build in more gas volume by adding multiple gas cylinders to their system.

The header rail assemblies feature in all 4 of our Tech Master, Lab Master, Spec Master and Chem Master platforms and have the ability to add up to 2 additional cylinders on 1 module.

A selection sealing materials are available to support a vast variety of gases or gas mixtures.

Technology / Design	Tech Master GP Series	Lab Master LG Series	Spec Master HP Series	Chem Master SG Series
Left Hand	GPH410	LGH510	HPH610	SGH610
Right Hand	GPH420	LGH520	HPH620	SGH620



This configuration is typically referred to as a 2 x 5 system, since 2 banks of 5 cylinders are installed, with either left or right bank of 5 cylinders supplying gas at any given time.

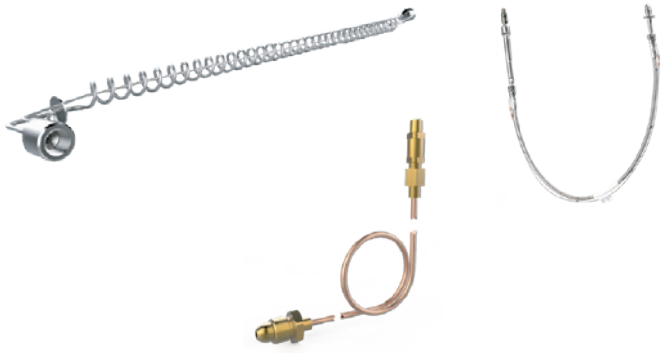
ACCESSORIES - COMWELD CONTROL

HIGH PRESSURE FLEXIBLE HOSES AND TAILPIPES

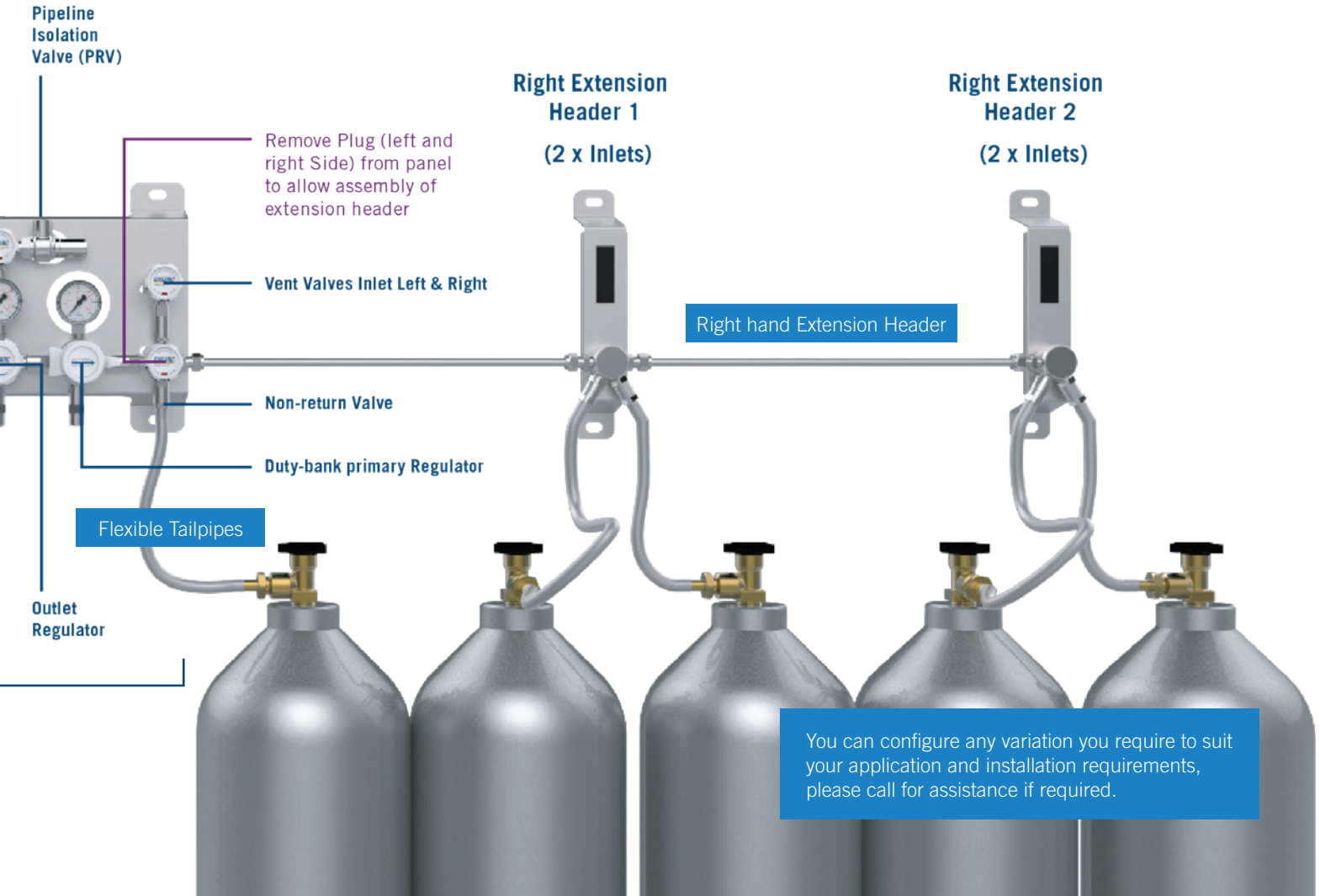
The COMWELD range of high pressure flexible hoses and tailpipes are designed to enable the user to transfer gas from the cylinders or vessels to the gas control panel.

The high pressure flexible hoses and tailpipes feature in all 4 of our Tech Master, Lab Master, Spec Master and Chem Master platforms and come in a selection of materials and lengths to support a vast variety of gases or gas mixtures.

All high pressure flexible Hoses and tailpipes can be configured with a selection of cylinder connections and non-return valves to complete a system.



Technology / Design	Tech Master GP Series	Lab Master LG Series	Spec Master HP Series	Chem Master SG Series
Elastomer	GPF400			
Acetylene Specific Design	GPF410	LGF510		
Oxygen Specific Design	GPF420	LGF520	HPF620	
Cupro/Nickel Tailpipe	GPF430			
PTFE Lined		LGF540	HPF640	
Stainless Steel Spiral		LGF550	HPF650	SGF650
Stainless Steel Convoluted		LGF560	HPF660	SGF660



You can configure any variation you require to suit your application and installation requirements, please call for assistance if required.

OUTLET POINTS

OUTLET POINTS ASSEMBLY

The COMWELD range of outlet points and outlet point regulators are a compact, flexible solution designed to be integrated into a gas distribution system, offering the user secondary local gas control.

The user of the fully assembled outlet points will benefit via the ability to isolate, control and manage the distribution of gases safely around a local process, either mounted on a wall structure or within a table top surface.

The outlet points and outlet point regulators feature in our Tech Master and Lab Master platforms and are available in diaphragm control designs, including Acetylene service.

This range of products comes fitted with a non-return valve and also has the option of adding a flashback arrestor to maximize safety when using flammable gas and gas mixtures.

Product Type	Tech Master GP Series	Lab Master LG Series	Spec Master HP Series	Chem Master SG Series
Outlet Point	GPB400	LGB500		
Outlet Point Regulator (regulator to be ordered separately)	GPP400	LGP500		

INTEGRATED OUTLET POINTS

The COMWELD range of integrated outlet points are a compact, flexible solution designed to be integrated into a gas distribution system, offering the user secondary local gas control.

The user of the fully assembled outlet points will benefit via the ability to isolate, control and manage the distribution of gases safely around a local process, either mounted on a wall structure or within a table top surface.

The outlet points feature in our Lab Master, Spec Master and Chem Master platforms and are available in diaphragm control designs.

This range of products also have the option of adding flashback arrestors to maximize safety when using flammable gas and gas mixtures.

Product Type	Tech Master GP Series	Lab Master LG Series	Spec Master HP Series	Chem Master SG Series
Wall Mount		LGU5000	HPU6000	SGU6000
Bench Mount		LGU5010	HPU6010	SGU6010

IN-LINE OUTLET POINTS

The COMWELD range of in-line outlet points are a compact, flexible solution designed to be integrated into a gas distribution system, offering the user secondary local gas control.

The user of the fully assembled outlet points will benefit via the ability to isolate, control and manage the distribution of gases safely around a local process, mounted on a wall type structure.

The outlet points feature in our Spec Master and Chem Master platforms and are available in both diaphragm and piston control designs where applicable.

This range of products comes fitted with a non-return valve and also has the option of adding a flashback arrestor to maximize safety when using flammable gas and gas mixtures.

Product Type	Tech Master GP Series	Lab Master LG Series	Spec Master HP Series	Chem Master SG Series
Wall Mount		LGU5000	HPU6000	SGU6000
Bench Mount		LGU5010	HPU6010	SGU6010

ACCESSORIES

CORE PRODUCTS

To support our core products, systems and solutions, COMWELD have a vast range of accessories and services that further enhance the experience of our customers and end users.

We have equipment and devices that feature in all 4 of our Tech Master, Lab Master, Spec Master and Chem Master platforms, that support elements of gas purging, communications and equipment mounting.

- Cylinder Support Racks
- Floor Mounting Kits
- Contact Alarm Gauges
- Alarm Panels
- Intrinsically Safe Barriers
- Pressure Relief Valves
- Flashback Arrestors
- Non-Return Valves
- Pressure Activated Shut-Off Valves
- Manual Shut-Off Valves
- Cylinder Connections
- Cylinder Adaptors
- Compression Fittings
- Purge Valves & Assemblies
- Panel Mounting Brackets

WHY COMWELD

WE OFFER

- End-user driven innovations
- Aesthetic, compact, ergonomic designs
- Machine Barstock body with reduced wetted surface area
- Products designed for quick configuration to meet the needs of the customer
- Panel mount capabilities incorporated into all models
- Variable porting arrangements for bespoke configuration

WE FOLLOW GLOBAL REQUIREMENTS

- ISO 2503
- ISO 7291
- ISO 14114
- ISO 14113
- ISO 109611

WE INVESTED IN AN IMPROVED GAUGE DESIGN

- Snap-on tamper proof lens
- Bar/PSIG unit measurement

WE ARE COMMITTED TO A SUPERIOR QUALITY MANUFACTURING

- ISO class 7.0 cleanroom
- ISO class 8.0 assembly facility
- Automated assembly and testing
- Precision optical (non-contact) inspection

WE HAVE A COMPREHENSIVE PRODUCT OFFERING

- Chem Master product range is designed for use with corrosive, toxic and high purity gases up to grade 6.0 purity (99.9999%)
- Spec Master product range is designed for use with non-corrosive, non-toxic, high purity gases up to grade 6.0 purity (99.9999%)
- Lab Master product range is designed for use with non-corrosive, non-toxic, high purity gases up to grade 5.0 purity (99.999%)
- Tech Master product range is designed for use with non-corrosive, non-toxic, technical gases up to grade 4.5 purity (99.995%)

ORDER PROCESS

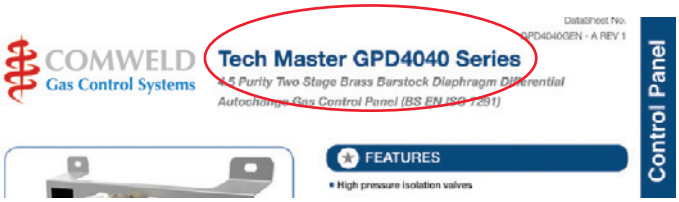
COMWELD PRODUCT RANGE

The NEW COMWELD range is designed to offer our customers the ultimate flexibility in product configuration.

Combined with our new product supporting documentation and price guide, we have implemented the latest state-of-the-art integrated ERP system product configuration software, enabling us to offer bespoke complex gas control and distribution systems with market leading deliver lead-times.

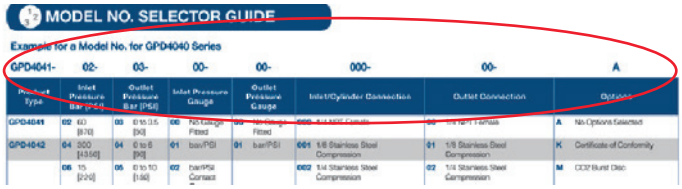
1. Select base product

Select the base product using our product supporting documentation (data sheet, website or brochure), ensuring it is suitable for both the gas and the application.



2. Select configurable options

Select your configurable options using the table provided, detailing the desired inlet pressure, outlet pressure, pressure gauge option, inlet connection, outlet connection and any additional supporting accessory or certification.



3. Manufacture & delivery of your exact specification product

This fully configured model code is used directly on our shop floor within our flexible manufacturing facility to assemble, test the product that meets your exact specification.

COMWELD
Gas Control Systems

QUALITY

RELIABILITY

ACCURACY

PERFORMANCE

COMWELD
Gas Control Systems

CIGWELD
AN ESAB BRAND

Global Range of Specialty Gas Control Equipment

CIGWELD Pty Ltd An ESAB Brand

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