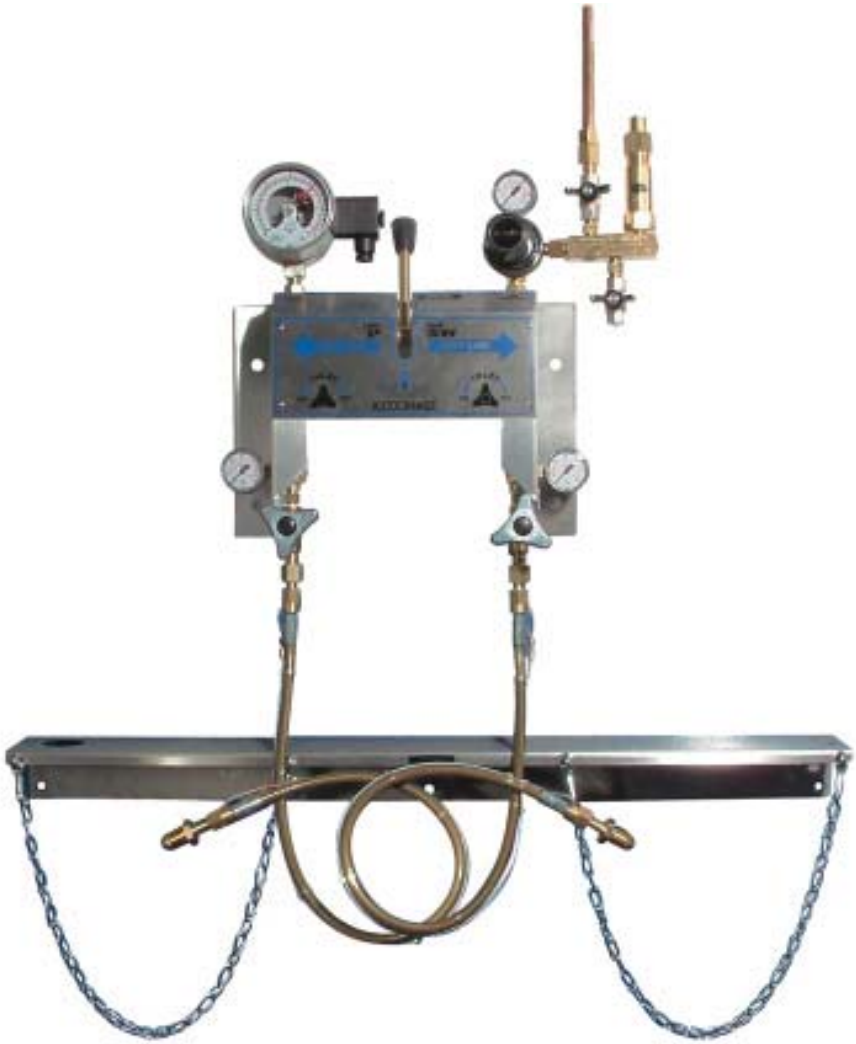
gas arc GROUP



Gas Control & Welding Products

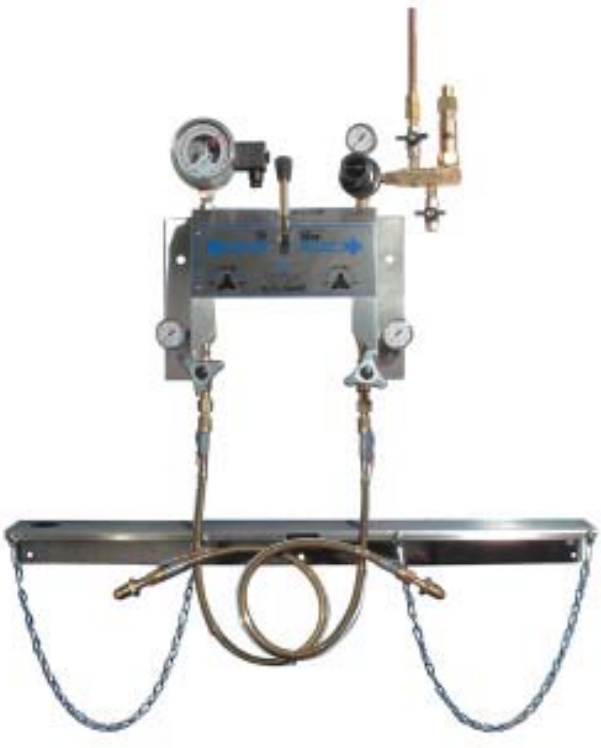
Autochange Manifolds

Gas-Arc autochange manifolds offer the user an uninterrupted gas supply with an alarm option to indicate the reserve cylinder bank has taken over.

The units consist of cylinder support rack, H.P. cylinder tailpipes, isolating valves, two primary regulators, a line regulator and an operating lever. The unit comes as standard with a pipeline pressure reduction package comprising of pipeline safety relief valve, LP sample purge valve, line isolation valve and pipeline connector. A contact alarm gauge is fitted to enable an electrical switch facility for an alarm panel. The autochange is fully protected by safety relief valve and burst discs.

Once the cylinder tailpipes have been connected to the cylinder bank, both the isolating valves can be opened and by final adjustment of the line regulator the unit is made operational.

The duty cylinder bank is determined by the operating lever. When the lever is in the down position the righthand cylinder bank is in service (this is indicated by the screenprinted instructions and diagram). The unit will now supply gas until the pressure falls in the duty cylinder bank, at the pre-determined level the reserve cylinder bank will take over supplying gas. The operator is alerted by an alarm panel (shown below), and will now need to move the lever up to the arrow indicating the duty set of cylinders. The empty cylinders should now be replaced enabling this process to continue.



Alarm Panel

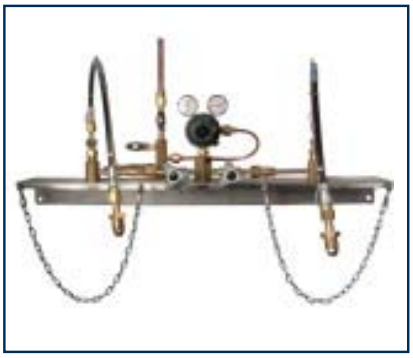
Gas-Arc visual and audible alarm panels are designed to provide a remote user with warning of a gas cylinder or bank of cylinders being exhausted.

The alarm panels are capable of housing up to five different gas channels with each individual channel having an indicator light showing normal, reserve and low pressure status with an additional audible warning. The units are supplied as dual voltage with selection of 110 or 240 volt by means of a switch and the additional facility of a volt free relay for wiring to a slave panel or building management system (BMS). A major feature of the alarm panels is the ease of adding additional snap-in gas channels to offer the user the convenience of being able to increase the number of channels (up to a maximum of 5) at a later date.

N.B. For fuel gas systems, the installation of an intrinsically safe barrier is required to comply with B.A.S.E.E.F.A. requirements.

Contact Alarm Gauges

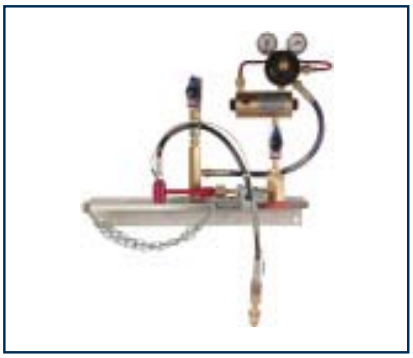
Gas-Arc offer a range of contact alarm gauges in 100 mm diameter, full safety pattern design and fitted with electrical contact switches. As standard, all gauges are supplied with two adjustable contacts which both to break on falling pressure. The contacts are rated at 50 mA on 240 volt AC and are available for a range of pressure services.



Manual Changeover Pressure Reduction Manifolds

The Gas-Arc range of manual changeover manifolds are designed and manufactured to comply with recognised standards including the requirements of BCGA Codes of Practice CP4. The manifolds are manufactured to operate in conjunction with 300 bar service cylinders and are ideally suited to the requirements of most applications where cylinder gases are used. These manifolds are designed to accommodate 2 equal sized banks of cylinders with sizes ranging from 2 x 1 to 2 x 6 with one bank set as operational and the other bank set as reserve.

The manifold is mounted on a rigid stainless steel frame with integral cylinder restraint chains complete with snap shut clips. Gas is supplied to the manifold via high pressure tailpipes into the manifold header pipe with each individual cylinder protected by non-return valve to prevent cylinder back filling. The centrally mounted regulator block is fitted with high pressure isolation valves each side to provide easy duty or reserve bank selection, a 0-5 bar or 0-12 bar manifold regulator to BS EN ISO 7291, pipeline pressure relief valve, low pressure purge/sample valve, line isolation valve and pipeline connection offers a complete pressure control package whilst ensuring ease of installation on site.



Acetylene Manual Changeover Pressure Reduction Manifold

Gas-Arc acetylene manual changeover manifolds are designed and manufactured to comply with BS EN ISO 14114 and the requirements of BCGA Codes of Practice CP5. These manifolds are designed to accommodate a number of cylinder options from single cylinder to 2 x 6 as standard configurations.

The manifold is mounted on a rigid stainless steel frame with integral cylinder restraint chains complete with snap shut clips. Gas is supplied to the manifold via high pressure tailpipes into the manifold header pipe with each individual tailpipe protected by non-return valve to prevent cylinder back filling. The centrally mounted regulator block is fitted with high pressure isolation valves each side to provide easy duty or reserve bank selection, high pressure quick action shut-off valve, a 1.5 bar manifold regulator to BS EN ISO 7291, safety slam shut valve or pipeline pressure relief valve, 1/2" BSP line isolation valve and flashback arrestor offers a complete pressure control package whilst also ensuring ease of installation on site.

Laser-Cut High Flow Manifolds

The Gas-Arc Laser-Cut range of manifolds provide the ideal solution for high flow cylinder or multi cylinder pack requirements involved in laser cutting applications.

The manifolds are supplied for use with single cylinder through to 2 x 6 (12 cylinders total) or single multi cylinder pack through to 2 x 3 (6 packs in total) and are all fully compliant with the requirements of BCGA Code of Practice CP4.

Wall Mounted Pressure Reduction Cylinder Coupler

Gas-Arc wall mounted pressure reduction cylinder couplers are designed and manufactured to comply with recognised standards including the requirements of BCGA Codes of Practice CP4. The cylinder couplers are available in both single and twin cylinder versions and are ideally suited to most cylinder gas applications where space is at a premium or where financial constraints prevent the installation of a manifold system .

The cylinder couplers are mounted on a rigid stainless steel frame with the gas supplied via high pressure tailpipes into the centrally mounted regulator block which is fitted with high pressure isolation valves each side to provide easy duty or reserve bank selection. A 0-5 bar or 0-12 bar manifold regulator to BS EN ISO 7291, pipeline pressure relief valve, low pressure purge/sample valve, line isolation valve and pipeline connection offers a complete pressure control package whilst also ensuring ease of installation on site.

Labmaster Laboratory Outlet Points

Gas-Arc manufacture a range of Labmaster outlet points to suit the majority of laboratory applications. Designed to be located at the point of use, the outlet points offer the user full control and adjustment required for the application whilst meeting the requirements of BCGA Code of Practice CP7.

The range of outlet points comprise of wall or bench mounting options, non-return valve or flashback arrestor to BS EN 730-1, isolation valve, pipeline adaptor and pipeline pressure regulator to ensure full compliance with BCGA CP4.

N.B. All acetylene outlet points must be fitted with a BS EN 730-1 compliant flashback arrestor. It is also a recommendation of Gas-Arc, that all fuel gas outlet points should be fitted with a flashback arrestor to ensure complete user safety.

Laboratory Outlet Panels

The requirements of today's laboratory applications vary greatly from one project to another and are often to exacting customer requirements, including show piece laboratory facilities.

With this in mind, Gas-Arc offer a comprehensive range of laboratory outlet panels which are assembled within a white stove enamelled steel cabinet, to offer a fully enclosed solution to laboratory gas control. The range covers a wide range of options from single gas to multiple gases within one cabinet and in wall, bench or surface mounting versions, all of which ensure full compliance with BCGA Code of Practice CP7.

Lineleader Outlet Points

Gas-Arc manufacture a wide range of outlet points to suit the majority of industrial gas pipeline applications. Designed to be located at the point of use, the outlet points offer the user full control and adjustment required for the application whilst meeting the requirements of BCGA Code of Practice CP7.

The Gas-Arc range of outlet points comprise a sturdy wall bracket, non-return valve or flashback arrestor to BS EN 730-1, isolation valve, pipeline adaptor and pipeline pressure regulator (supplied as a separate item) to ensure full compliance with BCGA CP7.

N.B. All acetylene outlet points must be fitted with a BS EN 730-1 compliant flashback arrestor. It is also a recommendation of Gas-Arc, that all fuel gas outlet points should be fitted with a flashback arrestor to ensure complete user safety.

Lineleader Pipeline Regulators

The range of pipeline regulators are designed to meet the specific performance criteria required for connection to a pipeline system.

With a large diaphragm in conjunction with large orifice design guarantees a high flow capability, coupled with precise pressure control. Available in a number of configurations, Gas-Arc pipeline regulators are suitable for all non-corrosive industrial and process gases.

The range of pipeline regulators are designed to be used in conjunction with Gas-Arc outlet point assemblies, ensuring full compliance with BCGA (British Compressed Gases Association) Codes of Practice.

Inline Pipeline Regulators

The Gas-Arc range of inline pipeline pressure regulators are manufactured under strict BS EN ISO 9001 quality and design management systems.

Machined, tested and assembled in our UK production facility, the range of inline pipeline pressure regulators offers a controlled supply pressure for a wide range of industrial and laboratory applications. The range is designed for additional regulation from a manifold or supply plant with a maximum inlet pressure of 20 bar and is ideally suited to pre-terminal unit pressure regulation.

Multi-stage Regulators

The Gas-Arc 300 bar multi-stage regulator provides the ultimate answer to industrial gas pressure requirements. Capable of working on cylinder pressure up to 300 bar, these regulators provide extra safety and precision control to the user. The two stage reduction of cylinder pressure within the Gas-Arc multi-stage regulator combines extra safety with precise control over the complete pressure range.

These regulators are extremely versatile and can be found in many industries serving a wide range of applications. These include 24 hour life support systems, food and drink processing, laboratory supply systems, high tech manufacturing controls and numerous other industrial applications.

All Gas-Arc regulators are produced under our BS EN ISO 9001:2000 quality management system and the design and construction have been tailored to meet in full the requirements of BS EN ISO 2503.

The range is suitable for all standard industrial gases, including oxygen, acetylene, hydrogen, nitrogen, argon, helium etc.

High Purity Regulators

The Gas-Arc range of High Purity regulators are the ideal solution for critical gas control applications where the maintenance of gas purity is paramount. These regulators are suitable for gases or gas mixtures up to 99.999% purity and are used in a wide variety of applications including laboratory, food production and analytical environments.

Gas-Arc High Purity regulators are available in multi-stage, high pressure and pipeline versions and for all standard gases, to provide a high purity gas pressure regulation solution for most applications.

Regulators

High Pressure & High Flow Regulators

Gas-Arc high pressure and high flow regulators lead the industry in performance and safety. Developed using tried and tested materials combined with the latest technology these regulators are designed to supply high pressure or high flow gases for process use.

GA400

The GA400 single-stage regulator offers a compact option for applications with high outlet pressure requirements of up to 28 bar (400psi). This regulator is a favourite in the fire and refrigeration industries.

GA1500 - GA2500 - GA3500

These regulators are of single-stage design and have been designed for high outlet pressure service of up to 250 bar (3500 psi). The regulators have many uses from high pressure testing and purging to high pressure laboratory applications.

GA600

This regulator is capable of the highest flow rate of any regulator in its class. This, combined with its multi-stage design, ensure reliability with accurate pressure control making it an industry favourite in the diving world.

HF-14

The HF-14 has been designed to meet the flow rate requirements that are necessary for heavy duty cutting, thermic lancing and light duty scarfing. Suitable for both cylinder and pipeline mounting makes the unit extremely versatile.

Medical Single-stage Regulator

The Gas-Arc range of single-stage medical regulators are CE marked and are designed and manufactured to fully comply with BS EN 738-1 and the Medical Devices Directive 93/42/EEC.

Available for a range of medical gases, these regulators are pre-set at 4 bar and come with a range of inlet and outlet connections.

Gas-Arc also offer a range of medical flowmeters, either for connection to the regulator outlet or for connection to wall mounted terminal points.

Medical Multi-stage Regulator

The Gas-Arc range of multi-stage medical regulators are CE marked and are designed and manufactured to fully comply with BS EN 738-1 for cylinder use, BS EN 738-2 for manifold use and the Medical Devices Directive 93/42/EEC.

These regulators are available for use with oxygen, air, nitrous oxide and Entonox and are 0-10 bar outlet pressure.

N2/CO2 Mixed Gas Primary Drinks Dispense Regulator

The Gas-Arc mixed gas single-stage primary regulators are designed specifically for the beverage industry and are capable of regulating both CO2 and N2/CO2 mixed gas.

Available with 1 or 2 pressure gauges, these regulators are supplied complete with a wall mounting bracket, flexible 600mm inlet hose and 2 pressure relief valves in accordance with BRLA codes of practice.

Single-stage Regulators

Gas-Arc single-stage regulator lead the industry in performance and safety. Developed using tried and tested materials combined with the latest technology these regulators are more accurate and safer when used with cylinders of ever increasing pressure under the rigorous demands from modern industry. The Gas-Arc single-stage regulators are 300 bar rated and are designed to fully meet the requirements of BS EN ISO 2503 to provide reliable service and a prolonged service life.

A wide range of outlet pressures are available as standard with 0-4 bar and 0-10 bar available for all high pressure gases and 1.3 bar for acetylene. Other pressures are available on request. Further flexibility is offered with a vast range of international fittings including: British (BS), American (CGA), French (Norme Francaise), Australian (AS), German (DIN), Netherlands (NEN).

Gas-Arc single-stage regulators are available with either bottom or rear entry inlet connections to ensure compatibility with all leading gas cylinders. These regulators are also available in 2 gauge, 1 gauge, indicator or plugged variants to provide suitability for all industrial applications.

Model GA D-99 Reset Flashback Arrestor

The Gas-Arc Model GA D-99 flashback arrestor is designed to offer complete protection, for both operator and equipment, combined with high flow performance and ease of use.

Designed and manufactured to fully comply with BS EN 730-1, the GA D-99 flashback arrestors provide complete protection for all oxygen and fuel gas equipment requirements. One of the requirements of BS EN 730-1 is that the safety features contained within the flashback arrestor must be clearly marked on the product label with the appropriate symbols. These symbols can be found on the GA D-99 label.

In the U.K. flashback arrestors for use with acetylene must be approved by the HSE and the GA D-99 has full approval.

Model GA D-97 Inline Flashback Arrestor

The Gas-Arc Model GA D-97 flashback arrestor is designed to offer complete protection, for both operator and equipment, combined with high flow performance, compact design and its suitability for connection in pipeline and manifold installations.

Designed and manufactured to fully comply with BS EN 730-1, the GA D-97 flashback arrestors provide complete protection for all oxygen and fuel gas equipment requirements. One of the requirements of BS EN 730-1 is that the safety features contained within the flashback arrestor must be clearly marked on the product label with the appropriate symbols. These symbols can be found on the GA D-97 label.

In the U.K. flashback arrestors for use with acetylene must be approved by the HSE and the GA D-97 has full approval.

Model GA D-96 High Flow Flashback Arrestor

The Gas-Arc Model GA D-96 flashback arrestor is designed to offer complete protection, for both operator and equipment, combined with a higher flow performance to ensure that gas flow restriction is minimised. This higher flow rate makes the GA D-96 ideally suited to applications such as aluminothermic welding, heavy duty cutting and welding.

Designed and manufactured to fully comply with BS EN 730-1, the GA D-96 flashback arrestors provide complete protection for all oxygen and fuel gas equipment requirements. One of the requirements of BS EN 730-1 is that the safety features contained within the flashback arrestor must be clearly marked on the product label with the appropriate symbols. These symbols can be found on the GA D-96 label.

In the U.K. flashback arrestors for use with acetylene must be approved by the HSE and the GA D-96 has full approval.

GA Series Pipeline Flashback Arrestor

The Gas-Arc Model GA Series flashback arrestor designed to provide complete protection for all of your pipeline and high flow oxygen and fuel gas requirements.

Designed and manufactured to fully comply with BS EN 730-1, the GA Series flashback arrestors provide protection for all oxygen and fuel gas equipment requirements. One of the requirements of BS EN 730-1 is that the safety features contained within the flashback arrestor must be clearly marked on the product label with the appropriate symbols. These symbols can be found on the GA Series label.

In the U.K. flashback arrestors for use with acetylene must be approved by the HSE and the GA Series has full approval.

Model GA D-92 Torch/Hose Mounted FBA

The Gas-Arc Model GA D-92 flashback arrestor are mounted either on the blowpipe inlet or in the hose assembly and are designed to eliminate the effects of a flashback at the torch, thereby preventing ignition of the gas in the hose and further back to the regulator and cylinder

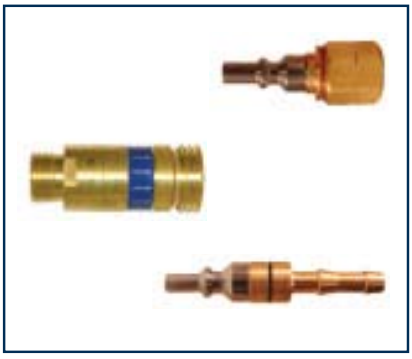
Designed and manufactured to fully comply with BS EN 730-1, the GA D-92 flashback arrestors provide protection for all oxygen and fuel gas equipment requirements. One of the requirements of BS EN 730-1 is that the safety features contained within the flashback arrestor must be clearly marked on the product label with the appropriate symbols. These symbols can be found on the GA D-92 label.

In the U.K. flashback arrestors for use with acetylene must be approved by the HSE and the GA D-92 has full approval.

Quick Release Couplings

The Gas-Arc range of quick release couplings are designed to provide instant connection and disconnection of equipment connected to your gas supply. This enables equipment to be removed for storage at the end of each shift, improving security and reducing the risk of damage.

Designed and manufactured to conform to EN561 and ISO 7289, the Gas-Arc range of quick release couplings are interchangeable with other leading brands that are manufactured to the same standards. A full range is available for connection to the regulator, torch or in the hose assembly to suit most gas cutting, welding and control applications.



GA2000 Cutting Torch

The GA 2000 range of cutting torches are designed to withstand the rigours of constant use within the fabrication, construction and demolition market sectors due to the all brass and cupro-nickel construction.

Designed and manufactured to fully comply with BS EN ISO 5172 the GA 2000 cutting torches are a versatile option that incorporate the latest technical features that are necessary to meet the ever changing requirements of the hand held cutting market.

The GA 2000 range of cutting torches are available in 500mm (18”), 700mm (27”), 900mm (36”) and 1200mm (48”) lengths and with 90°, 105°, 180° head angles.

Type 4 Cutting, Welding & Heating Torch

The Gas-Arc Type 4 range of welding & cutting blowpipes offers a combination of good design along with ideal balance that is required in a torch that is designed to suit a wide range of applications. From welding, brazing, cutting and pre-heating, the Type 4 has the versatility to accommodate all of these requirements.

Designed and manufactured to comply with BS EN ISO 5172, the Type 4 is available either in individual component form, in a range of combination kits or even in a complete set with everything needed to get started.

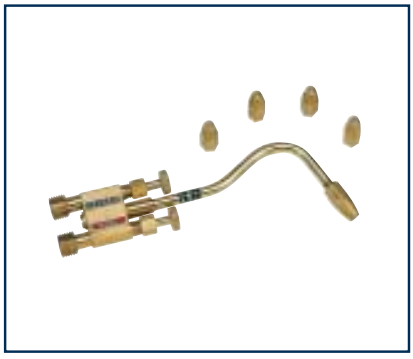
A complete range of Type 4 cutting and welding sets are available from the Type 4 Cutting and Welding Set (shown left) to the Type 4 Complete Set, which includes regulators, flashback arrestors, hoses and accessories all in one case.

Lightweight Cutting & Welding Torch

The Gas-Arc Lightweight range of welding & cutting blowpipes offer a well proven design that is ideal for lightweight production welding and maintenance applications.

Designed and manufactured to comply with BS EN ISO 5172, the Lightweight is available either in individual component form, in a range of combination kits or even in a complete set with everything needed to get started.

A complete range of Lightweight cutting and welding sets are available from the Lightweight Welding Set, the Lightweight Cutting and Welding Set (shown opposite), the Gas-Arc Workshop (which includes regulators, flash-back arrestors, hoses and accessories all in one case to the Gas-Arc Supapack (shown opposite) which is a complete mobile workshop (cylinders are not included).



Phoenix Multi-Torch

The Gas-Arc Phoenix Multi-Torch is an extremely versatile multi fuel, injector mix blowpipe that is ideally suited to delicate jewellers work, laboratory, electronics and instrument applications, glass work, lead burning and brazing sheet metal up to 1.5mm (1/16") thickness.

Flowmeters, Heaters, ArgoSaver & Economiser

Flowmeter

The Gas-Arc range of flowmeters are designed primarily for use with shielding gases used in MIG and TIG welding applications. The accuracy of gas flow control is greatly increased by use of a flowmeter and has the added benefit of giving a visual indication of when gas is actually flowing.

Available in two flowrate options 0-14 LPM and 0-40 LPM.

ArgoSaver

The main function of the Gas-Arc ArgoSaver is to save gas in MIG and TIG welding processes. By eliminating the initial surge of gas when the arc is initiated and the solenoid valve on the welding machine is opened, combined with the improved overall control of a secondary pressure regulator, potential gas savings of up to 60% can be achieved.

Heaters

The argon and CO2 heaters are designed to fit directly to the gas cylinder and work by preheating the gas before it enters the regulator which reduces the occurrence of freezing.

Economiser

The Economiser is a quick shut off device that offers a quick, simple and effective method of improving workplace safety and productivity. The unit incorporates 2 pre-set valves which, when required are closed simultaneously by operating the blowpipe rest arm. With the economiser valves closed the gas flow is shut off without having to adjust the control valves on the blowpipe. The pilot light offers easy re-ignition.

Nozzles

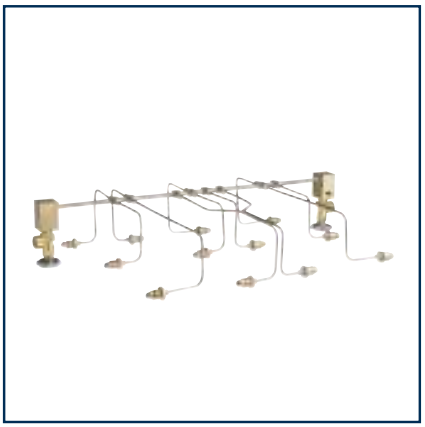
The Gas-Arc range of cutting welding and heating nozzles are, where applicable, designed and manufactured to comply with the requirements of BS EN 5172.
A comprehensive range of nozzles is available to suit all Gas-Arc cutting, welding and heating torches as well as being compatible for use with most other leading U.K. manufacturers torches.

Hose Assemblies

The range of hose is fully compliant with the requirements of BS EN559 and is supplied in a comprehensive range of hose assemblies which are available in 5, 10 or 20 metre lengths, in 6, 8 or 10mm bore and for gas specific service with oxygen, acetylene and propane. These assemblies are fitted with Gas-Arc hose check valves and hose nut and tail, which are retained with a swaged collar for gas tightness. The hose can also be supplied in 100 metre coils for cutting and fitting by the customer.

Regulators, Cylinders & Hose Fittings

Gas-Arc offer a comprehensive range of regulator, cylinder and hose fittings that facilitate for the connection, adaptation or reconfiguration of equipment to fully satisfy the users requirements. Manufactured from high quality brass, these fittings are designed to ensure that, when fitted correctly, gas tightness is ensured at all times.



Cylinder Bundle Manifolds/Gas Filling Systems

Gas-Arc manufacture a broad range of multi cylinder pack or bundle manifolds that are designed using the latest CAD systems and are manufactured under our strict BS EN ISO 9001 quality systems. the pack manifolds are designed for use on bundles from 6 to 100 cylinders and are suitable for all industrial gases, including propane and acetylene.

The Gas-Arc cylinder filling systems are designed and manufactures for the filling of all industrial gases, with a product range that includes cylinder control panels, individual fill rails through to multi cylinder pack filling systems as detailed below.

As individual customers filling requirements vary so much, there is no such thing as a standard filling system and Gas-Arc welcomes the opportunity to discuss, design and produce filling systems in accordance with the customers specific requirements.

Distributor:

BS. EN. ISO 9001 Quality Assurance Q 5965

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