

turning our quality into your control



gas arc
GROUP



Our Company Profile

Today, Gas-Arc Group is the largest manufacturer of gas control equipment in the UK. Ranging from exacting speciality gas applications to standard gas control and welding equipment, you will find our products in most industrial, laboratory and medical gas control processes.

All Gas-Arc equipment is designed, manufactured and tested at our production facility in Diss, England, under BS EN ISO 9001:2000 accreditation and the latest BS EN ISO standards. It is our policy to invest in the latest CNC technology available, together with a high degree of automation, skilled and experienced engineers, we are able to offer a sustained standard of quality.

Our ability to introduce design changes quickly, and our active involvement with the British Compressed Gases Association (BCGA), British Standards Institute (BSI) and TWI, means that we are able to take advantage of the continual improvements being generated, allowing all our customers to comply with the latest industrial, laboratory or medical updates.

The service we provide includes significant technical support; in particular, help with complex gas control installations, product behaviour and performance. We offer fast delivery of customer specific gas control equipment to your location. Often one phone call will resolve your problem and set in motion the delivery of a complete range of goods to meet all your requirements.

Accreditations:

- EN ISO 9001 : 2000 Quality Management System
- ISO 13485 : 2003 Medical Quality Management System
- CE marking of medical products to Medical Devices Directive 93/42/EEC
- Products manufactured in accordance with Pressure Equipment Directive 97/23/EC
- Cylinder Pack manifolds compliant with Transport Pressure Equipment Directive 99/36/EC

Tech-Master

Industrial Gas Control



Tech-Master products are a solid, cost effective solution to industrial gas control applications where robust equipment is required in a wide range of industrial production, engineering, fabrication and offshore environments.

Manufactured from high-grade brass Tech-Master is designed for use with compressed gases and gas mixtures up to grade 4.8 (99.998%) purity.

All products are assembled in an oxygen clean environment and are

100% leak and function tested to maintain product quality and integrity. At Gas-Arc we ensure that all of our products are manufactured in compliance with the relevant British, European and International standards and BCGA codes of practice.

Our extensive Tech-Master range of manifolds, high flow regulators, high pressure regulators, multi-stage and pipeline regulators is available for use with gases requiring inlet pressures up to 300 bar, Tech-Master products are offered in a wide range of outlet pressures and flow rate options, all available with a choice of cylinder inlet connections.



All Gas-Arc products are designed, manufactured and tested at our production facility in Diss, U.K. by our skilled local workforce. Our commitment to extensive stock holding of Tech-Master product enables us to offer a rapid response on our core product range. In addition, it enables even customer specific solutions to be dealt with in genuinely short lead times.



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Tech-Master

Industrial Gas Control



Tech-Master product range typically comprises:

- Autochange Manifolds
- Manual Changeover Manifolds
- Acetylene Manifolds
- Outlet Points
- Multi-stage Regulators
- Single-stage Regulators
- High Pressure Regulators
- High Flow Regulators
- Line Regulators
- Flashback Arrestors
- Isolation Valves
- Safety Pressure Relief Valves
- Non-Return Valves
- Contact Alarm Gauges
- High Pressure Flexible Hoses
- Audible & Visual Alarm Panels
- Ball Valves

Application areas for Tech-Master Speciality Gas Control Products:

- Gas Supply
- Chemical Process Technology
- Pharmaceutical Industry
- Petrochemical Industry
- University and Education
- Research and Development
- Construction and Maintenance
- Engineering and Fabrication
- Oil and Gas Production
- Diving and Offshore Exploration
- Refrigeration Industry
- Fire Prevention and Control
- Food Production and Packaging

— turning our quality into your control

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HF-35 High Flow Regulator

Tech-Master



Specifications

A high pressure, high flow regulator with excellent performance the Tech-Master HF-35 regulator is the solution to the pressure and flow control requirements for many specialist requirements such as laser gas control and heavy duty cutting applications.

The rear entry configuration of the Tech-Master HF-35 means that it is suited to connection to either individual cylinders or cylinder bundles. Available with a 1" BSP female inlet connection, the HF-35 is additionally suited to low inlet pressure and pipeline applications.

Product Features

- All brass construction
- Finned body to reduce refrigerant effect
- Pressure adjustment bar for precise outlet pressure setting
- Two safety relief valves for maximum protection
- Rear inlet for ease of connection to individual cylinders and bundles
- Integral inlet filter
- 1" BSP female inlet connection for pipelines
- Designed and manufactured in Norfolk, UK.

Technical Data

Type	Single-stage
Inlet Pressure	maximum 300 bar (Oxygen 230 bar)
Outlet Pressure	0-35 bar
Materials:	
Body	Brass
Valve seat	Nylon/PCTFE
Piston	Brass
Filter	Bronze
Inlet Connection	BS341 or Nevoc
Outlet Port	3/8" BSP
Temperature range	-20° C to +60°C
Maximum flow	450 m ³ /hr @15°C in Air at 300 bar inlet
Weight	3.8kg

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HF-14 High Flow Regulator

Tech-Master



Specifications

A high pressure, high flow regulator with excellent performance the Tech-Master HF-14 regulator is the solution to the pressure and flow control requirements for heavy duty cutting, thermic lancing and light duty scarfing.

The rear entry configuration of the Tech-Master HF-14 means that it is suited to connection to either individual cylinders or cylinder bundles. Supplied with a 1" BSP female inlet connection, the HF-14 is additionally suited to low inlet pressure and pipeline applications.

Product Features

- All brass construction
- Finned body to reduce refrigerant effect
- Pressure adjustment bar for precise outlet pressure setting
- Two safety relief valves for maximum protection
- Rear inlet for ease of connection to individual cylinders and bundles
- Integral inlet filter
- 1" BSP female inlet connection for pipelines
- Supplied with 1" BSP x 5/8 BSP adaptor for cylinder connection
- Pressure gauges to EN562
- Designed and manufactured in Norfolk, UK.

Technical Data

Type	Single-stage
Inlet Pressure	maximum 230 bar
Outlet Pressure	0-14 bar
Materials:	
Body	Brass
Valve seat	Nylon/PCTFE
Piston	Brass
Filter	Bronze
Inlet Connection	BS341 / 1" BSP
Outlet Port	3/8" BSP
Temperature range	-20° C to +60°C
Maximum flow	240 m³/hr @15°C in Air at 300 bar inlet 80 m³/hr @15°C in Air at 30 bar inlet
Weight	3.8kg

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Specifications

A high pressure regulator that is a robust brass construction to withstand the rigours of daily use.

This product is used in many process control applications and is suitable for both cylinder and manifold mounting. Widely used for high pressure vessel testing and purging the GA3500 regulator is used for primary pressure regulation in many industrial, laboratory and research applications.

Product Features

- All brass construction
- 300 bar service
- Inlet and outlet pressure gauges to EN 562 for accurate gas pressure control
- Encapsulated valve
- Industrial and high purity gas options available
- 1/4" BSP Taper outlet for direct connection to high pressure flexible hose.
- Piston design for ease of pressure adjustment
- Designed and manufactured in Norfolk, UK.

Technical Data

Type	Single-stage
Inlet Pressure	maximum 300 bar
Outlet Pressure	0-241 bar
Materials:	
Body	Brass
Valve seat	Nylon
Piston	Brass
Filter	316L Stainless Steel
Inlet Connection	BS341
Outlet Port	1/4" BSP Taper
Temperature range	-20° C to +60°C
Maximum flow	230 m ³ /hr @15°C in Air at 300 bar inlet
Weight	1.8kg

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GA2500 High Pressure Regulator

Tech-Master



Specifications

A high pressure regulator that is a robust brass construction to withstand the rigours of daily use.

This product is used in many process control applications and is suitable for both cylinder and manifold mounting. Widely used for high pressure vessel testing and purging the GA2500 regulator is used for primary pressure regulation in many industrial, laboratory and research applications.

Product Features

- All brass construction
- 300 bar service
- Inlet and outlet pressure gauges to EN 562 for accurate gas pressure control
- Encapsulated valve
- Industrial and high purity gas options available
- 1/4" BSP Taper outlet for direct connection to high pressure flexible hose.
- Piston design for ease of pressure adjustment
- Designed and manufactured in Norfolk, UK.

Technical Data

Type	Single-stage
Inlet Pressure	maximum 300 bar
Outlet Pressure	0-175 bar
Materials:	
Body	Brass
Valve seat	Nylon
Piston	Brass
Filter	316L Stainless Steel
Inlet Connection	BS341
Outlet Port	1/4" BSP Taper
Temperature range	-20° C to +60°C
Maximum flow	230 m ³ /hr @15°C in Air at 300 bar inlet
Weight	1.8kg

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Specifications

A high pressure regulator that is a robust brass construction to withstand the rigours of daily use.

This product is used in many process control applications and is suitable for both cylinder and manifold mounting. Widely used for high pressure vessel testing and purging the GA1500 regulator is used for primary pressure regulation in many industrial, laboratory and research applications.

Product Features

- All brass construction
- 300 bar service
- Inlet and outlet pressure gauges to EN 562 for accurate gas pressure control
- Encapsulated valve
- Industrial and high purity gas options available
- 1/4" BSP Taper outlet for direct connection to high pressure flexible hose.
- Piston design for ease of pressure adjustment
- Designed and manufactured in Norfolk, UK.

Technical Data

Type	Single-stage
Inlet Pressure	maximum 300 bar
Outlet Pressure	0-105 bar
Materials:	
Body	Brass
Valve seat	Nylon
Piston	Brass
Filter	316L Stainless Steel
Inlet Connection	BS341
Outlet Port	1/4" BSP Taper
Temperature range	-20°C to +60°C
Maximum flow	230 m ³ /hr @15°C in Air at 300 bar inlet
Weight	1.8kg

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Specifications

This high pressure regulator has been designed specifically for use in the high pressure purge and leak testing of refrigeration and air conditioning systems operating with refrigerant gases, including R410A.

Designed for use with nitrogen to test HVAC systems to locate leaks and to purge the pipework prior to installation or repair. The robust compact construction of this regulator enables its use in confined working spaces.

Product Features

- All brass construction
- 300 bar service
- Inlet and outlet pressure gauges to EN 562 for accurate gas pressure control
- Encapsulated valve
- 1/4" SAE flare outlet for direct connection to standard refrigeration test equipment
- Can be used with all refrigerant systems up to 50 bar test pressure, in accordance with BS EN 378
- 0-70 bar working pressure gauge scale to allow for accurate delivery pressure setting
- Piston design for ease of pressure adjustment
- Designed and manufactured in Norfolk, UK.

Technical Data

Type	Single-stage
Inlet Pressure	maximum 300 bar
Outlet Pressure	0-50 bar
Materials:	
Body	Brass
Valve seat	Nylon
Piston	Brass
Filter	316L Stainless Steel
Inlet Connection	BS341
Outlet Port	1/4 SAE Flare
Temperature range	-20° C to +60°C
Maximum flow	220 m³/hr @15°C in Air at 300 bar inlet
Weight	1.8kg

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HF-14 High Flow Regulator

Tech-Master



Specifications

A high pressure, high flow regulator with excellent performance the Tech-Master HF-14 regulator is the solution to the pressure and flow control requirements for heavy duty cutting, thermic lancing and light duty scarfing.

The rear entry configuration of the Tech-Master HF-14 means that it is suited to connection to either individual cylinders or cylinder bundles. Supplied with a 1" BSP female inlet connection, the HF-14 is additionally suited to low inlet pressure and pipeline applications.

Product Features

- All brass construction
- Finned body to reduce refrigerant effect
- Pressure adjustment bar for precise outlet pressure setting
- Two safety relief valves for maximum protection
- Rear inlet for ease of connection to individual cylinders and bundles
- Integral inlet filter
- 1" BSP female inlet connection for pipelines
- Supplied with 1" BSP x 5/8 BSP adaptor for cylinder connection
- Pressure gauges to EN562
- Designed and manufactured in Norfolk, UK.

Technical Data

Type	Single-stage
Inlet Pressure	maximum 230 bar
Outlet Pressure	0-14 bar
Materials:	
Body	Brass
Valve seat	Nylon/PCTFE
Piston	Brass
Filter	Bronze
Inlet Connection	BS341 / 1" BSP
Outlet Port	3/8" BSP
Temperature range	-20° C to +60°C
Maximum flow	240 m³/hr @15°C in Air at 300 bar inlet 80 m³/hr @15°C in Air at 30 bar inlet
Weight	3.8kg

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GA400 High Pressure Regulator

Tech-Master



Specifications

A compact high pressure regulator that is a robust brass construction to withstand the rigours of daily use.

Widely used for high pressure testing and purging of vessels and fire extinguishers, the GA400 regulator has many uses for primary pressure regulation in many industrial, laboratory and research applications.

Product Features

- All brass construction
- 300 bar service
- Inlet and outlet pressure gauges to EN 562 for accurate gas pressure control
- Encapsulated valve
- Piston design for ease of pressure adjustment
- Industrial and high purity gas options available
- Designed and manufactured in Norfolk, UK.

Technical Data

Type	Single-stage
Inlet Pressure	maximum 300 bar
Outlet Pressure	0-28 bar
Materials:	
Body	Brass
Valve seat	Nylon
Piston	Brass
Filter	316L Stainless Steel
Inlet Connection	BS341
Outlet Port	3/8 BSP
Temperature range	-20° C to +60°C
Maximum flow	140 m³/hr @15°C in Air at 300 bar inlet
Weight	1.4kg

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