



Scientific & Technical Gases Ltd

SPECIALISTS IN GAS MIXTURES AND HIGH PURITY GASES
PRODUCTS SUPPLIED WORLDWIDE
QUALITY PRODUCTS & EXPRESS SERVICE

SCIENTIFIC AND TECHNICAL GASES

Scientific and Technical Gases Ltd was formed in 1996. The founding principle was to supply high quality gases to the users of analysers and detection systems, with **EXCELLENT CUSTOMER SERVICE**.

We were aware that many of the large European gas suppliers were not always able to respond quickly to the needs of the smaller and more complex instrument users, as their business was often driven by the needs of their larger bulk gas customers.

Our initial aim was to focus on supplying high quality instrument gases to the analyser market, through good planning and preparation. This ensured we could give a fast and responsive service.

Our product range has now grown considerably and includes **HIGH PRECISION GRAVIMETRIC CALIBRATION GASES** and **HIGH PURITY GASES** in a wide range of container sizes from small **DISPOSABLE TO LARGE HIGH PRESSURE** refillable cylinders.

We can now also supply a wide range of regulators, gas generators, installation services and a range of cylinder and gas handling accessories to provide a comprehensive package. A **NEW SERVICE** we now offer is a full **CYLINDER DISPOSAL** service, from identification of products on site, to removal and disposal.

Many of our team have spent a lifetime in the industrial gas industry and this experience allows us to meet even the most demanding specialised needs of our customers.

Our philosophy is that all our customers have different needs, applications and service requirements, hence our very individual and **TAILORED** approach to customer service.

At STG we aim to have all incoming queries handled directly by an **EXPERIENCED SALES ENGINEER** who is able to quickly advise a customer on their needs and provide all the various options to them.

Our sales engineers are usually able to quote verbally over the phone, with a follow up confirmation by fax or e-mail. Our trained staff can advise and arrange **TRANSPORT OF GASES** and products **WORLDWIDE**, taking away the headache for our customers of shipping gases and other dangerous goods.

STG prides itself on being able to give our customers what they want, where they want it and when they want it in a very technical and complex product area. With our specialist, focused and planned approach we work with our **CUSTOMERS** to meet their needs in terms of targets and deadlines.

TONY ADDISON
FOUNDER & MANAGING DIRECTOR

CALIBRATION GAS MIXTURES

We supply high precision custom made gas and liquid mixtures for all analytical, detection and process applications, in a wide range of container sizes. Our modern gravimetric production methods ensure we can produce binary or very complex multi – component mixtures with the highest level of mixing accuracy, whilst achieving reliable delivery schedules.

*example of a
Certificate of
Composition*

CERTIFICATION

All **PRIMARY** and **CERTIFIED** mixtures are issued with a **CERTIFICATE OF COMPOSITION** which fully describes the mixture in terms of requested composition and actual certified composition. Mixture pressure, gas volume, mixture accuracy, shelf life, valve type, conditions of storage and use are all prescribed on the certificate. A statement denoting traceability is also included on the certificate of composition. All certificates bear our internal reference number and the customer order number. A weather proof certificate in the form of an adhesive cylinder body label is used, and we also issue an A5 laminated certificate which is attached to the cylinder valve or guard.

CYLINDER PREPARATION

Scientific and Technical Gases Ltd prides itself on its expertise in selecting the correct cylinder material and valve type depending upon the customer's needs. We use a range of various comprehensive specialised internal cylinder treatments, selected to give excellent mixture stability. A variety of internal treatments are used depending on the chemical nature of the individual mixture components, this is very important to the ultimate accuracy and integrity of the blend. Optimum shelf life is important and we spend much research time developing treatments to maximise mixture life.

MIXTURE PRODUCTION

All materials used in mix production are analysed, so as to ensure inherent impurities are allowed for in the final mixture. Mixtures are made gravimetrically, using a series of high precision balances, which undoubtedly give the highest production accuracy available. NPL, NIST and UKAS standards are used as required in the mixture production process. Our modern production systems allow fast manufacture, and with our highly experienced chemists and technicians, we can give accurate and reliable delivery times to our customers.

EXPORT SERVICE

With our in-house dangerous goods knowledge and experience, we can offer delivery worldwide. Our trained staff can take care of any documentary problems you may have and, using our network of experienced dangerous goods transport companies, we can get the goods to where you want. With the transportation of dangerous goods legislation and continually changing shipping procedures. Scientific and Technical Gases Ltd are one of the few companies worldwide that has the expertise to handle the range of gases, by road, sea and air.



Scientific & Technical Gases Ltd
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Certificate of Composition 15239- 1- 1

Order No	STG18/030606T1	Cylinder No	D16242
Customer	ANALYTICAL & CONTROL	Cylinder Valve	CGA350
Our Ref	15239	Cylinder Size	20AL
Nett Wt (Kg)	2.1	Gross Wt (Kg)	28
Component	Requested Value	Certified Value	
CARBON MONOXIDE	1%VOL	1.02%	
CARBON DIOXIDE	1%VOL	1.01%	
METHANE	1%VOL	1.03%	
ETHYLENE	BALANCE	BALANCE	

Pressure 60bar Volume 2m3 Valid Until Jun 09
Please note all units are in VOL% and mixture accuracy $\pm 2\%$ Relative Mixtures traceable to standards calibrated at the National Physical Laboratory, Teddington, Middlesex, England
Certified by A.C. RIGBY UN NO 1954 Date 29/06/2006



MIXTURE GRADES AND SPECIFICATIONS

CERTIFIED STANDARDS			PRIMARY STANDARDS	
Concentration Range	Preparation Tolerance %	Certification Tolerance %	Preparation Tolerance %	Certification Tolerance %
< 1ppm	40	5	n/a	n/a
1 – 9.9ppm	20	5	5	1
10 – 99ppm	10	2	5	1
100ppm – 0.99%	10	2	2	0.5
> 1%	5	2	2	0.2

STABILITY AND SHELF LIFE

Accuracy is important, however in the case of mixtures without guaranteed stability, the integrity of the mix is totally prejudiced. We supply mixtures with a certified shelf life, clearly stated on our certificate of composition, so there will be no confusion about the suitability and validity of the product. Mixtures containing corrosive and reactive components generally take longer to produce due to the extensive cylinder preparation, and the final stability analyses.

TRACEABILITY

All Scientific and Technical Gases Ltd products are traceable to the National Physical Laboratory or UKAS calibrated weights. If analysis is required we calibrate against UKAS, NPL or NIST gas standards.

HIGH PURITY GASES

We supply high purity Carrier gases up to >99.9999% pure, a huge range of Hydrocarbon gases, Chemical gases, Halocarbons, Rare gases and many other gases for research and industry. These gases can be supplied in small disposable containers or lecture bottles and in a large range of high pressure options up to shoulder high 1670 mm high cylinders and up to 200 bar in pressure. Bulk containers of certain gases are available on request.

Acetylene	Ethane	Methyl Mercaptan
Air	Ethyl Aceylene	Mono Ethylamine
Allene	Ethyl Chloride	Mono Methylamine
Ammonia	Ethylene	Neon
Argon	Ethylene Oxide	Nitric Oxide
Boron Trichloride & Fluoride	Fluorine	Nitrogen
Bromomethane	Helium	Nitrogen Dioxide
Butane	Hydrogen	Nitrous Oxide
Butene 1	Hydrogen Bromide	Oxygen
Butene Cis 2	Hydrogen Chloride	Phosgene
Butene Trans 2	Hydrogen Sulphide	Propane
1,3. Butadiene	Hydrogen Iodide	Propylene
Carbon Dioxide	Hydrogen Fluoride	R-see Halocarbons
Carbon Monoxide	Halocarbons**	Sulphur Hexafluoride
Carbonyl Sulphide	Krypton	Sulphur Dioxide
Chlorine	Methane	Trimethylamine
Cyanogen Chloride	Iso-Butane	Vinyl Bromide
Cyclopropane	Iso Butylene	Vinyl Chloride
Deuterium	Methyl Acetylene	Xenon
Dimethylamine	Methyl Bromide	<i>R - Numbers are under Halocarbons** Please specify name and formula.</i>
Dimethyl Ether	Methyl Chloride	

Scientific and Technical Gases Ltd supply gases worldwide and are able to offer all BS, DIN, and CGA cylinder valves and connections.



LECTURE BOTTLES

These are a specific container that historically has been used for research purposes. A lecture bottle is traditionally a cylinder of 0.4 litres water capacity, 310mm long x 50mm diameter, and it contains all the above listed under high purity gases.

For research purposes and for applications where smaller quantities of gases are required, Lecture Bottles are a good solution and very cost effective.

Please see a range of gases above;

Please enquire specifically about different products, as we have listed the more common products, however there are many others that we will quote on request as we have the production capability to do many more products. This also refers to the various different grades of specific gases.



HIGH PRESSURE REFILLABLE CYLINDER RANGE

CYLINDER TYPE	HEIGHT (MM)	DIAMETER (MM)	WEIGHT (KG)	WATER CAPACITY (LT)	MATERIAL
110LT	1020	380	36	110 Litres	Steel (low pressure)
45LT	680	315	20	45 Litres	Steel (low pressure)
50AL	1550	250	57	50 Litres	Aluminium
50ST	1520	230	70	50 Litres	Steel
20AL	990	200	25	20 Litres	Aluminium
20ST	835	200	28	20 Litres	Steel
10AL	700	175	14	10 Litres	Aluminium
10ST	690	160	14	10 Litres	Steel
10ST	840	140	14	10 Litres	Steel
5AL	505	150	8	5 Litres	Aluminium
5ST	480	140	9	5 Litres	Steel
3AL	510	110	5	3 Litres	Aluminium
3ST	440	115	6	3 Litres	Steel
LB	310	50	1.5	0.45 Litres	Steel

The above are the commonly stocked sizes, and various others are available on request cylinder heights are to the centre of outlet valve. Add 100mm or total absolute height with guard or cap. The above weights are cylinder and valve without contents.

CONTROL EQUIPMENT



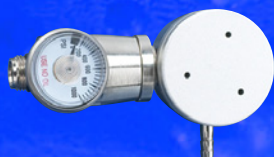
20DA CYLINDER OPTIONS

- On/Off valve, with mini flow meter, *above left*
- On/Off valve, with septum for syringe use, *above middle*
- On/Off valve, with push on tube outlet, *above right*
- Balanced flow regulator option available



34DA, 60DA AND 103DS & 112DA CYLINDER OPTIONS

- DAF-100 Dial-a-flow regulator with high pressure connector (See A)
- DAF-100 Dial-a-flow regulator with 1/4 inch npt connection (See B)
- Balanced flow regulator (See C)
- Fixed flow regulator, 0.5, 1.0 2.5, 3.0 litres/minute (See D)
- ODFR-1001 On-demand flow regulator (See below)



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NON-REFILLABLE CYLINDERS

We can supply custom made high precision gravimetric calibration gas mixtures and high purity gases in a range of modern compact light weight cylinders. These containers are ADR suitable, manufactured to international standards, and can be transported by road, sea and air worldwide. Our container range gives maximum contents with convenient portability and ease of use for the user.

The benefits of non-refillable cylinders are;

- **NO TOOLS REQUIRED TO CONNECT UP**
- **PORTABLE AND LIGHTWEIGHT**
- **NO CYLINDER RENTAL**
- **CAN BE SUPPLIED WORLDWIDE BY AIR**
- **AVAILABLE WITH A COMPLETE RANGE OF CONTROL EQUIPMENT**



Scientific and Technical Gases are a prime manufacturer of high pressure gas mixtures made gravimetrically to ISO 6142. All mixtures have international traceability via National Physical Laboratory standards used in the manufacturing process.

We can produce simple binary mixtures through to complex multi-component gas mixtures, in a range of disposable cylinder options. All gases can be supplied with a certificate of composition, if required. Cylinders are routinely labelled with the gas volume, pressure, your order number, our reference number, date of manufacture and shelf life.

STG is unique in that we are a prime manufacturer of gas mixtures and pure gases. We hold bulk stocks of mixtures and pure raw materials with the aim of being able to manufacture quickly and efficiently. We now also hold the more common finished products such as LEL mixes and various toxic components as ex-stock products.

Being a specialised producer we can also provide specialist hardware such as septum port hardware for syringe users, bespoke purge assemblies and specifically requested configurations.

We supply all corrosive toxic components in non-refillable cylinders such as, NO, NO₂, NH₃, H₂S, SO₂, HCL, HCN, Cl₂, as well as the full range of LEL mixtures and common gases.

Being a prime manufacturer of specialist gases and gas mixtures we have the ability to make blends that are relatively uncommon, quickly, and be able to put them into a container of your choice.

We now supply a range of products to the marine industry. Supplying many cylinder gases to vessels around the world.

NON-REFILLABLE CYLINDERS

LITRES OF GAS	WEIGHT (KG)	HEIGHT (MM)	DIAMETER (MM)	PSI	BAR
20 Litre Alum. (20DA)	0.32	250	78	300	20
34 Litre Alum. (34DA)	0.44	285	76	500	34
34 Litre Steel (34DS)	0.68	279	74	500	34
60 Litre Alum. (60DA)	0.75	365	90	500	34
103 Litre Steel (103DS)	1.40	356	83	1000	70
112 Litre Alum. (112DA)	1.19	365	90	1000	70

All above weights are quoted as a nominal value, full of nitrogen.

NON-REFILLABLE CYLINDERS IN KIT FORM

For user convenience and portability, Scientific and Technical Gases can supply a carrying case to keep all gases, control equipment and tubing together, in a tidy and transportable manner.

For instrument manufacturers rental companies, distributors and selected customers, we are happy to "own brand" our products. We would label with your label, logo, livery and importantly your contact details



REGULATORS FOR HIGH PRESSURE CYLINDERS

Selecting the correct type of regulator is extremely important. STG are specialists in handling industrial gases and we have the experience to be able to recommend the best option for your application.

The STG range of regulators consists of the lower cost brass construction with man-made diaphragms. Customers need to consider the following parameters when selecting the right regulator for their application.

- **GAS MIXTURE OR PURITY; GAS MIXTURES 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.**
- **REACTIVE OR CORROSIVE GAS; IF THE REGULATOR IS BEING USED FOR PURE REACTIVE GASES OR GAS MIXTURES (PPM OR % LEVEL) THEN SELECT A STAINLESS STEEL REGULATOR.**

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

- **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.**

MODEL STG ECO BRASS (B)

This brass regulator range gives value for money and good reliable performance, 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 1/4 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, benefits are;

- **SUITABLE FOR UP TO 99.999% CARRIER GASES**
- **FOR NON CORROSIVE GASES AND MIXTURES DOWN TO PPM LEVEL**
- **COSMETICALLY PLEASING**

Inlet cylinder connection included, and outlet can be hose barb for push on tubing, compression fitting or 1/4 inch NPT(F), other outlets on request. All BS, DIN and CGA cylinder connectors available.

MODEL STG STAINLESS STEEL (SS)



Stainless steel regulators are manufactured to the highest specification and are utilised where the customer application requires the highest integrity.

- **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 1/4 inch NPT(F), other outlets on request. All BS, DIN and CGA cylinder connectors available.

HOW TO SPECIFY A REGULATOR

MATERIAL OF CONSTRUCTION	STAGES	MAX INLET PRESSURE (bar)	MIN INLET PRESSURE (bar)	CYLINDER CONNECTION TYPE	OUTLET CONNECTION
B=Brass	Single 1 Two 2	Up to 200 bar	Up to 100 bar	BS	NPT(M or F)
SS=Stainless steel				CGA	Push on Tube
CB=Chromed brass				DIN	Compression

e.g. B-2-200-10-BS4-NPT(F), outlet assumed as 1/4 inch unless otherwise stated.

SPECIALISED REGULATORS FOR SPECIFIC CONTROLLED APPLICATIONS

DIAL-A-FLOW REGULATOR (DAF-100)

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



GAS HANDLING ACCESSORIES

STG can supply a complete range of accessories to physically handle, secure, store and safely use gases.

- **CYLINDER TROLLEY**
- **STORAGE RACKS**
- **CYLINDER WALL SECURING BRACKETS**
- **FLOOR STANDS FOR CYLINDERS**
- **CUSTOM MADE RACKS OR STORAGE ENCLOSURES**
- **CYLINDER CONNECTORS OF ALL TYPES** e.g. BS, CGA OR DIN
- **CUSTOM BUILT PANELS**



GAS CHANGEOVER UNITS

Scientific and Technical Gases can design and supply gas changeover units for your wide and varied application. These can be semi automatic for ease of changeover, or totally automatic for changeover when staff are not present. There are many permutations that we can assemble so please fully discuss your specific requirements with our sales engineers.

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.



SPECIALITY GAS ENGINEERING & INSTALLATIONS

Our engineers can design, supply and install gas pipework at your location. As members of the British Compressed Gases Association (BCGA), we are fully qualified to provide this specialist service. STG have many years of industry experience and knowledge of gas industry applications.

Scientific and Technical Gases can also provide made up panels, control boards, valving arrangements etc, made to your specification, for your or our installation.

This includes on site storage systems which include all cylinder securing hardware, regulators and pipework to the point of use. Lockable storage pens can be installed to safely house all the cylinders and regulators.

All installations will meet the Health and Safety Executive "Pressure Systems Regulations" and all BCGA codes of practice.

Our Engineering Capabilities include:

- **DESIGN AND SUPPLY OF HIGH PRESSURE PIPEWORK GAS SYSTEMS (UP TO 500BAR)**
- **INSTALLATION OF CRYOGENIC SYSTEMS, PIPEWORK AND VAPORISERS.**
- **SUPPLY AND SERVICING OF GAS PUMPS, CRYOGENIC PUMPS AND VACUUM PUMPS**
- **SPECIALITY GAS PLANT DESIGN, INSTALLATION AND COMMISSIONING.**

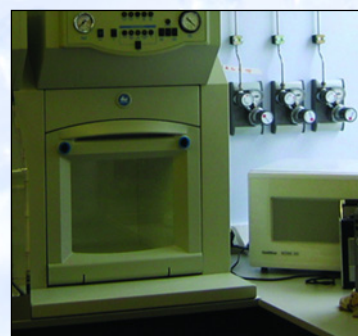


SPECIAL REGULATORS

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

- **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. Scientific and Technical Gases has many years of gas handling experience and so we are confident that we can help you, whatever your needs.



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CONSULTANCY

We provide consultancy services to users of gases throughout the industry which include:

- WRITTEN SCHEMES, WITH CERTIFICATION AND ALL DESIGN DOCUMENTS TO COVER YOUR GAS HANDLING SYSTEMS AS PER HSE REGULATIONS
- INSPECTION AND MAINTENANCE OF YOUR GAS HANDLING SYSTEMS.

GENERATORS

CAL 2000

As an authorised distributor of ACD, who have developed this reliable and useful way of analysing awkward gases. See ACD website www.goacd.com

The CAL 2000 is a compact hand held gas generator for use with various gases, see specification;



The CAL 2000 gives;

- THE FACILITY TO OPERATE OVER A CONCENTRATION RANGE AND AT A PARTICULAR OUTLET FLOW, TO GIVE GREAT FLEXIBILITY IN USE.
- A DIGITAL DISPLAY SHOWING THE LIFE LEFT IN THE CHEMICAL CELL, HENCE IT IS EASY TO ENSURE THAT A REPLACEMENT CELL IS ORDERED IN ADEQUATE TIME.
- THE OPTION TO BE USED WITH VARIOUS CHEMICAL CELLS.
- CELL LIFE OF 50 – 100 HOURS.
- TRACEABILITY OF MEASUREMENT TO INTERNATIONAL STANDARDS VIA N.I.S.T.

The CAL 2000 LT is the lower cost model and is more preset, and less adjustable, but can often be less flexible compared to the 2000.

CYLINDER DISPOSAL

Many companies are becoming increasingly aware of the need to dispose of used and discarded cylinders on their site. STG has an expertise in all aspects of cylinder manufacture, transport and safe disposal.

With our extensive pressure vessel knowledge, including that of cylinder valving and de-valving, we can provide a unique service of cylinder recycling or disposal. Our gas knowledge enables us to transfill various contents into larger storage, thus emptying the cylinder safely and efficiently. Following contents removal the cylinder can be recycled or scrapped as decided.

Pressure vessels and cylinder valves are meant to be retested and maintained every five years maximum, so cylinders stockpiled over a number of years may present a big potential hazard for many companies and organisations.

We are willing to visit individual sites to inspect and quote accordingly.

EQUIPMENT

We can supply:

- CYLINDER CONNECTORS BRASS AND STAINLESS STEEL TO BS, DIN AND CGA
- BESPOKE ADAPTORS MADE TO SUIT
- GAS CONTROL EQUIPMENT
- PIPING AND EQUIPMENT

Chlorine Micro Cell (Cl ₂)	0.05 - 1.0 ppm
Chlorine (Cl ₂)	0.5 - 50.0 ppm
Chlorine Dioxide (ClO ₂)	0.5 - 5.0 ppm
Hydrogen (H ₂)	0.5 - 50.0 ppm
Hydrogen Cyanide (HCN)	0.5 - 50.0 ppm
Hydrogen Sulphide MicroCell (H ₂ S)	0.05 - 1.0 ppm
Hydrogen Sulphide (H ₂ S)	0.5 - 50.0 ppm
(ppm is variable with flow rate, output given at 0.5lt/min)	

AMPOULES

Glass ampoules can be used for calibration of diffusion mode types of detector system. The calibrant concentration is achieved in a set volume beaker after breaking the ampoule.

- AMPOULES ARE SIMPLE TO USE AND TO TRANSPORT, AND ARE NOT CLASSIFIED AS PRESSURISED HAZARDOUS GOODS.
- AN ECONOMICAL METHOD OF CALIBRATING VARIOUS MANUFACTURERS ANALYSER SYSTEMS.



Ampoules are often used for detecting the following gases, Sulphur Dioxide, Nitric Oxide, Nitrogen Dioxide, Ammonia, Carbon Dioxide, Carbon Monoxide.

All accessories are available for this unique form of detector calibration, please enquire accordingly.



EXPRESS SERVICE

Scientific and Technical Gases can cater for urgent requirements and can often accommodate production schedule changes to give rapid response.

STG philosophy is to support customers by responding quickly, we achieve this by having a skilled team of gas mixing technicians and production chemists ready for most eventualities.

We now have a specialist division catering for deliveries to the **Marine Industry**

Please discuss your requirements with our sales staff, and providing it is technically feasible, safe and stable, we can probably help.

Our sales staff will quote you accordingly.

FOR PROFESSIONAL ADVICE AND EXPRESS SERVICE WORLDWIDE

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OR VISIT OUR WEBSITE www.stgas.eu



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