

APRIL/MAY 2011



LP GAS

THE VOICE OF THE INDUSTRY



VIEW OF THE STAGE

Do we need three-stage pressure reduction?

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UKLPG NEWS

E-COMMERCE

2011 AEGPL CONGRESS

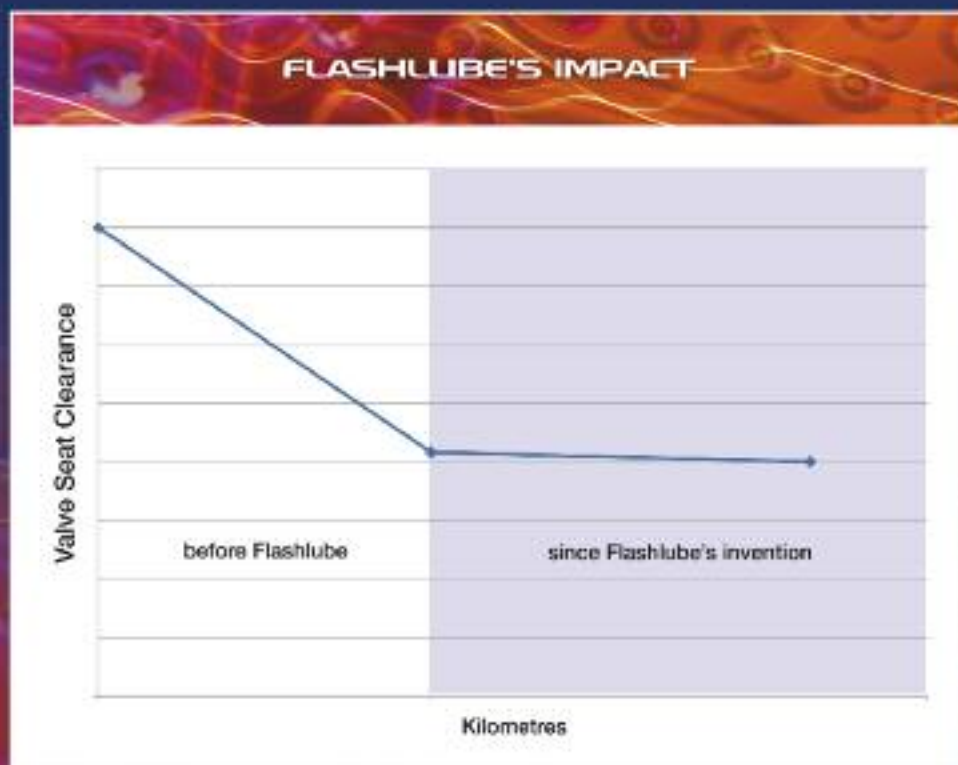
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THE VOICE OF THE INDUSTRY INDUSTRY EVENTS



Faye Spiers
Editor

Several industry events are on their way, including the AEGPL's annual congress, which will take place in Bucharest, Romania, on June 22-24. The conference is expected to draw over 1,000 delegates to discuss this year's theme of Lpg: Energy For The European Village. The AEGPL will also be launching its Beyond The Grid Roadmap, which will cover domestic and off-grid applications of lpg.

On September 26-29, the World LP Gas Association will hold its 24th World LP Gas Forum in Doha, Qatar. It will be the first time that the forum will have been held in the Middle East.

The Middle East is expected to have the biggest impact of any region on global lp gas trade in the coming years. In 2011, the Middle East will surpass North America to become the largest lp gas producing region in the world. Although its lpg demand is only about 9 per cent of global consumption, the Middle East has had one of the largest recent growth rates in the world and this is expected to continue.

UKLPG's annual conference will take place in Cardiff on May 18. The association has invited a government official to talk about the Government's flagship energy policy the Green Deal, and Rob Pannell, head of home and building at the Zero Carbon Hub, which has a lead responsibility for delivering homes to zero carbon standards by 2016, will also speak.

Other presenters include Chris Homes, vice president of Purvin & Gertz, an international energy consulting firm, and Andrew Ford, group public affairs manager at SHV Gas, which last year launched its Future of Rural Energy in Europe (FREE) initiative to urge EU leaders to ensure that the needs of rural communities are considered in the development of energy policy.

UKLPG has also announced that its members meeting will be held at Shrigley Park in Macclesfield on September 13-14.

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FRONT COVER PICTURE VIEW OF THE STAGE

See page 12



TPA Takes Over Outback

UK barbecue brand Outback has been taken over by Chinese appliance and equipment manufacturer TPA Metals & Machinery (Shenzhen) Ltd and announced a new distribution agreement with Unipart Leisure & Marine.

Family-owned Outback started in 1979 and was run from Kent by Julie Channer, daughter of founder Eric Hopper, who has sold her remaining shares to majority shareholder TPA.

Mark Osborne, chief executive at Outback UK, said: "Julie and her co-directors decided the time was right to sell the business after many years as establishing it as a first choice brand among consumers. It's all change for 2011, with new offices, new distribution and new products.

"TPA, which has a leading worldwide reputation and market for its barbecues, key gas and valve regulators, cylinders, heaters and camper



L-R: Victor Lin, TPA, and Mark Osborne, Outback UK.

appliances, is a natural partner to ensure a bright future for the Outback brand. With sales increasing, and a greater number of consumers seeing the lifestyle and household economy benefits of lighting up an Outback barbecue, we plan to add even more marketing trade value to the brand in the year ahead."

Victor Lin chief executive at

TPA, said: "We have had a successful and longstanding relationship in working alongside Outback, from original design to final barbecue shipment, and look forward to developing a business that has a proven track record for growth among UK customers."

Contact Outback UK on 01432 268197

Flogas Awards G4S Contract

Flogas UK Ltd has awarded a national meter reading contract to metering and field services provider G4S Utility Services. The contract will cover approximately 6,900 premises, and G4S' metering representatives will undertake site meter gas inspections and installation safety checks in addition to carrying out regular data collection.

Jason Lynch, purchasing manager at Flogas, said: "When it comes to meter readings, accuracy is vitally important for Flogas and our customers. After initial tests with G4S, we were impressed with both their level of accuracy and the cost savings we could make by switching contractors."

Kim Challis, managing director of G4S Utility Services, said: "This is another example of how we are able to deliver metering services to customers using our nationally based field workforce to tight timescales and within challenging service levels. We look forward to working with Flogas and providing them with the accurate date they require to assist them in ensuring that their charges are correctly levied for their lpg customers."

Contact G4S Utility Services on 0208 722 3038
www.g4s.com/uk

Shell Allies With Heat Haus



Shell customers will have access to Heat Haus' network.

Shell Gas (LPG) has announced that it is now working with Heat Haus, an lpg heating solutions installer for homes and small businesses based in the East Midlands. Shell customers will have access to Heat Haus' network of lpg heating accredited engineers and services, such as a pay monthly maintenance scheme and boiler and parts guarantees.

Phil Turley, managing

director at Shell Gas (LPG), said: "This relationship with Heat Haus provides an extended network of expert lpg installers in the Midlands. It will greatly enhance the service we can offer lpg customers, with additional support for installations, servicing and, in the case of emergency breakdowns, helping to ensure peace of mind for all our customers."

Lewis Morley, technical director at Heat Haus, said:

"Working with Shell provides an excellent source of additional customers for Heat Haus, who will benefit from our extended guarantees and other value adding services. Using lpg has many benefits, such as being a cleaner burning fuel compared to most traditional fossil fuels and highly efficient, and having the added bonus of linking effectively with renewable energy sources. This, combined with the expertise and reliability of Shell Gas (LPG), means that we can recommend Shell Gas (LPG) to customers with confidence."

Shell says it is looking to develop relationships with other heating and energy providers and installers.

Contact Shell Gas (LPG) on 08082 080000
www.shell.co.uk/lpg

Shell Sells Refinery

Shell has sold its Stanlow refinery near Ellesmere Port to Essar Oil (UK) Ltd for \$1.3 billion. The sale covers Shell's oil products, chemicals manufacturing, commercial fuels bulk fuels and local marine fuels businesses associated with the refinery.

Mark Williams, Shell's downstream director, said: "The decision to sell Stanlow is part of our drive to concentrate our global manufacturing portfolio on larger assets and, on completion, means we will have reduced our global refining exposure through a combination of asset sales and closures by a total of 1.6 million barrels since 2002."



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Energy for the European Village



The theme for the 2011 AEGPL Congress will be Lpg: Energy For The European Village.

The 2011 AEGPL Congress will be held in Bucharest, Romania, on June 22–24. The conference is expected to draw over 1,000 industry professionals, and over 100 exhibiting companies to its accompanying exhibition.

European energy consumption is growing at around eight per cent per year, and lpg's share of total European energy consumption is expected to double by 2030. Lpg consumption in Romania has already shown steady growth over the last five years, equivalent to an annual growth of nearly 12 per cent.

Veron Toma, president of ARGPL, the Romanian lpg gas association, said: "As Europe and the world continue to look for solutions to energy challenges, I believe the lpg industry should continue to do

its best to make sure that our product is exploited to its full potential. In Eastern Europe as a whole, autogas continues to show strong growth in many countries, and there are many areas where there are opportunities to increase lpg's use in domestic situations – a key topic for this year's congress."

The theme for this year's congress – Lpg: Energy For The European Village – has been chosen to mark the launch of the AEGPL's Beyond The Grid Roadmap, which will state its vision for the domestic lpg market until 2030.

Joël Pedessac, president of the AEGPL, said: "This is the first time that the event has been held in southeastern Europe. As the EU has now expanded to 27 member states, and will

doubtless increase even more in the near future, it is only fitting that the industry's keynote event takes place in this part of the continent.

"The theme chosen for this year's congress is LPG: Energy For The European Village and refers to two distinct ideas. Firstly, as the EU and, in fact, non-EU countries, continue to integrate both economically and politically, we see more convergence of standards, and more closeness across the continent than ever before. The effect of the single market in Europe is continuing to widen and deepen and, although different countries of course retain their individual identities, there has never been more that we can learn from one another.

"Secondly, 2011 sees the launch of AEGPL's latest

roadmap. This new roadmap is titled Beyond The Grid and covers applications of lpg in domestic or off-mains environments – often in many of Europe's thousands of villages.

"I strongly believe that this third roadmap can help to shape the European lpg industry by not only giving a stronger identity to our sector and our product, but also detailing the precise advantages that Europe will gain if lpg is used to its full potential. After the success of the Autogas Roadmap launched in 2008, which has been used extensively by AEGPL members across the continent and has also been reflected in European transport strategy, I hope that the Beyond The Grid Roadmap can have a similar effect for domestic lpg."

For more information, visit www.aegpl2011.com



The AEGPL will launch its Beyond The Grid Roadmap in Bucharest in June.

TODO Breaks Away

TODO's Break-Away coupling.

TODO AB will exhibit its new Safety Break-Away coupling at the 2011 AEGPL Congress on booth number 10 in the IC Bratianu Hall at the Palace of the Parliament in Bucharest on June 22–24.

Anette Leppanen, director at TODO, said: "When loading or unloading oil, gas or chemicals, safety is very important, as an incident could result in serious injury or damage to the environment or equipment. Our new Safety

Break-Away coupling is designed specifically to minimise the spillage and damage associated with these kinds of incidents.

"If the vehicle starts to roll away during loading or unloading, the Safety Break-Away coupling reacts as soon as the hose or loading arm has an excessive load and closes the valves automatically. No spillage or damage occurs after the coupling has broken apart."

The Safety Break-Away coupling is installed on the hose or loading arm and is available in sizes from two inches to four inches. It operates independently of shut off systems and does not require an external power source. It has a working pressure of up to 40 bars.



Contact TODO AB on +46 506 19940 www.todo.se



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Filling to the Limit

At the 2011 AEGPL Congress in Bucharest, Kosan Crisplant AS will promote its Flexspeed lp gas cylinder processing equipment on booth numbers 122 and 123 in the Unirii Hall.

Kaj Lehmkuhl, marketing coordinator at Kosan Crisplant, said: "Conceived and born to challenge the concept of filling gas cylinders, Flexspeed has forever changed the lp gas filling business and how we understand and handle the limits of mechanical processing equipment. Flexspeed has taken the filling business to the limit

and far beyond, fulfilling the basic technological requirements but doing it better, breaking commonly recognised barriers and extending the perception of what can be achieved with a gas cylinder filling system.

"Flexspeed has the flexibility and efficiency to cover any filling capacity above 1,200 cylinders per hour on one carousel system, while keeping the price of each processed cylinder down and doing everything better than conventional systems. Not bad for a three-year old."



Kosan Crisplant has developed new features for its Flexspeed system, many of which are compatible with conventional filling systems, including its automatic tare value recognition system.

Kaj said: "Tare value entry is generally slow and faulty and very much depends on human resources, and so it is prone to human error. Automatic reading and data handling by a camera with optical character recognition software is almost as accurate as the human eye and much faster than manual tare value entry on a keyboard by a plant operator, even when reading up to 3,600 cylinders per hour."

With Kosan Crisplant's system, a camera takes an image of the cylinder top and transfers it to a computer for analysis. The optical character recognition (OCR) software detects the tare value printed on the cylinder and compares the detected value

with a cylinder database. When a match is confirmed, the computer transfers the value to the system for use in downstream processing units.

Kaj said: "Certain requirements for cylinder colour and contrasting print, including surface wear and cleanness of both body and print, must be met in order for the vision system to be fully accurate. Although developed for high-speed tare reading in Flexspeed systems, vision recognition has also proved useful in lower capacity conventional systems."

Kosan Crisplant will demonstrate its Flexspeed system during the World LP Gas Forum in Qatar in September alongside a conventional filling system.

Kaj said: "It will be possible to witness Flexspeed operate live next to a conventional filling system not too far from the venue, where you will be able to see the difference in technology and throughput at work."

Contact Kosan Crisplant on +45 8740 3000
www.kosancrisplant.com

Sensile Optimising Delivery

On June 22–24, Sensile Technologies will exhibit at the 2011 AEGPL Congress on booth number 47 in the IC Bratianu Hall.

Totalgaz (Switzerland) has recently begun installing Sensile's SENTS telemetry system to remotely monitor its lpg vessels.

Xavier Sinnhuber, technical and industry sales manager at Totalgaz (Switzerland), said: "Our aim is to offer the best, most innovative products to our clients. We had been following the development of telemetry solutions for the lp gas industry for a couple of years, and once it became apparent that the technology was highly efficient and cost effective, we decided to install it on our tanks.

"Our research into the development of telemetry solutions had already helped give us a good idea of what

was available on the market. Sensile Technologies not only offered sophisticated, reliable and easy to install hardware, but also a user friendly and resourceful web portal. Moreover, the company has more than ten years' experience in the field and its offices and production are Swiss-based, which is also important for our clients."

Totalgaz will initially install the SENTS telemetry system on customers' vessels located in remote areas and with irregular lpg consumption, such as those located in mountainous regions.

Xavier said: "Even with sophisticated statistical tools, like historical consumption data, we couldn't know exactly when to deliver to such clients, as their consumption is not linear. Our other priority customers are those with high lpg consumption where

there's a high risk of tanks running dry, and commercial clients, including chicken breeders and farmers."

Totalgaz's objective is to optimise deliveries and reduce logistics costs. The company intends to reduce the number of its deliveries by 20 per cent in the first year.

Xavier said: "Our business model is based on push delivery, meaning we deliver gas automatically without any order from the customer. Prior to installation of the SENTS



SENTS allows users to access, download and analyse telemetry information.

solution, the only source of information we had for when to deliver was statistical data, which has its limits.

"With telemetry, we can now follow up and monitor our tanks without being dependent on human capital and statistical data – with a few clicks on the internet we can quickly access, download and analyse information. Furthermore, all our clients have access to the data for their tanks, allowing them to visualise their consumption and so increase their awareness of energy consumption and potential savings."

Totalgaz intends to import level data from all its monitored vessels directly into its ERP system to automatically generate delivery schedules.

"This will allow us to further improve our logistics and reduce transport related carbon emissions," said Xavier. Contact Sensile Technologies on +41 21 805 0310
www.sensile.com



Kosan Crisplant®

Corporate Profile | The Kosan Crisplant Group is a project-oriented corporation, that supplies equipment, plants and systems for filling and maintenance of LP gas cylinders and offers after-sales and engineering services, and facility management. Since 1951, the group has supplied more than 2400 plants in 120 countries all over the world. The group has members in Algeria, Brazil, Cameroon, Denmark, France, India, Indonesia, Italy, Jordan, Malaysia, Mexico, Portugal, Romania, Saudi Arabia, Spain, Sri Lanka and USA and is the world-leading corporation within its field.

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See you at our booths

122-123

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RegO Internal Redesign

RegO has updated the design of its internal, or bottom outlet, valve after changes to the ADR regulations. The company is based in the USA, where its manufacturing sites are located, and distributes to its European dealers via Germany.

Freddy Deyk, operations manager at RegO, said: "Changes in legislation mean keeping up with the rules and there is nobody more adept and quick to react than RegO. RegO is the largest and best known manufacturer of lpg products in the world and, to maintain that position, our range of control valves and regulators are subject to constant review.

"Feedback from our customers results in changes being adopted even if it is to satisfy regional or national requirements. Most recent of these updates is our popular

A3217AR internal – or bottom outlet – valve, commonly used on bobtails and road tankers."

Internal valves are usually opened by an air cylinder, which operates a cam that lifts the centre stem of the valve. A bleed passage from the tank side allows lpg gas to pass below the main valve seat and, when the pressure on both sides has equalised, the valve seat springs open with the force of the excess flow valve spring.

Freddy said: "The old design relied on a closing spring pushing the valve closed when the air operating cylinder was exhausted. The cylinder retracted and the cam returned,



RegO's A3217AR internal valve.

but there was no external evidence, or guarantee, that the valve had actually closed.

"The new design pushes the valve open and pulls it closed. If the actuator does not return to the closed position, the valve has not closed.

"As part of this development, other changes include wider channels for improved flow, and plating for better rust protection. The valve still opens when the pressures across the seat have equalised, but the improved bleed channels ensure it now opens more quickly on start up.

"One of the most revolutionary parts of the design change is the rotary actuator. It does not

impart side load to the operating shaft, so seal wear is minimised.

"Cylinders have always been used for actuation and, even though they are reliable, they require field setting and adjustment and do not usually include a thermal latch. The new actuator is factory set, compact, and incorporates a thermal latch. Perhaps most important is that they also have a clear red indicator to show when the valve is closed."

The RegO range of internal valves covers flow rates and sizes in flanged and screwed designs up to 3", and 4" flanged versions.

RegO will be exhibiting at the 2011 AEGPL Congress on booth numbers 1 and 2 in the IC Brantianu Hall.

Contact UK Rego distributor Remanufacturing Services Ltd on 01792 224000 www.rmsgaseng.com

Conquering Cavitation

Cavitation can have serious consequences for a pump's performance in applications that involve the transfer of lpg.

William Bohr, director of business development at pump manufacturer Blackmer, said: "Cavitation can harm pumps in many ways, among them excessive wear, breakdowns, product leakage and inefficient operation. Blackmer pumps deliver proven reliability, durability, high efficiency and performance under the most demanding conditions, including those that can lead to performance sapping cavitation."

Blackmer says its cavitation suppression liners, for use on its sliding vane pumps for lpg applications, are the solution to these negative effects. The liners, combined with a pumping system, can reduce the potentially harmful effects of too numerous or large vapour bubble formation, and

the resulting cavitation, when pumping lpg.

Cavitation is the formation of vapour bubbles in a fluid liquid when the pressure of the liquid falls below its vapour pressure. In pumping applications, hydrodynamic cavitation occurs, which is when vapour bubbles that are formed rapidly collapse, producing a shockwave that vibrates through the fluid. The shockwaves can be strong enough to damage pump parts and components, resulting in a loss of pumping efficiency and pump failure.

William said: "Blackmer's major breakthrough in this area has come in the refinement of its patented cavitation suppression liner, which is now

available on most of its sliding vane pump lines for use in lpg applications, most notably the LGL series. The cavitation suppression liners control the rate of collapsing vapour bubbles within the pump, sharply reducing the noise, vibration and wear that are caused by entrained vapours.

"The design of the cavitation suppression liner provides a controlled pressurisation of the fluid in the pump extension chamber as it progresses toward the discharge of the pump, allowing the vapour bubbles to collapse over a longer period of time. The net result is less noise, less vibration and less wear. This is combined with the highly efficient operation of



Blackmer differential bypass valve.

Blackmer's century old sliding vane pumping technology."

In conjunction with lpg pumps that feature cavitation suppression liners, Blackmer has also developed its BV line of differential bypass valves to protect pumps and systems from excessive pressure damage, available in five different models up to 1,135 litres/minute at 8.27 bar.

William said: "In addition to choosing the right equipment, there are other ways to minimise the effects of cavitation. To reduce the amount of vapour bubbles produced, the length of pipe leading from the storage tank to the pump should be of proper size for the rate of flow and be kept to a minimum to reduce pressure loss caused by friction. Fittings, turns and other restrictions should also be avoided. Finally, as with all pumping applications, the pump selected should be the proper size and operate at the correct speed for the system."

Contact Blackmer on +1 6162 489252 www.blackmer.com

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VIEW OF THE STAGE

Richard Smith, technical regulators sales manager at Clesse (UK) Ltd, asks if we really need three-stage pressure reduction.



Two stage system.

Views on whether we really need to drop our transmission pressures to 75mbar vary between lp gas companies but, in the light of the Gill report, we should all be thinking about the way we supply lp gas.

As a regulator manufacturer, Clesse UK had to decide where best to target its development efforts. Being an innovative company, it has developed both 750mbar and 75mbar distribution methods so they are as similar as possible. Each option has its advantages and disadvantages but, through creative thinking, Clesse has developed reliable installation kits for all applications.

Clesse UK has spent a lot of time and effort ensuring that its equipment complies fully with EN13785 and is reliable enough to 'fit and forget', and has launched a new version of its BP2203 regulator, the BP2203FC, for use within second stage meter boxes.

With two-stage systems, vessel pressure is typically reduced to 750mbar, which is then transmitted through PE pipe to the property. It is then reduced further to 37mbar using a regulator installed outside the property that has under and over pressure protection.

The advantages of a two-stage system are that distribution pipework and regulators can be smaller, and pressure loss can be 'disguised' by increasing the first stage pressure setting. The disadvantages are that any lp gas escape could be large and

potentially hazardous, re-liquefaction can sometimes occur if pressures above 2 bar are set at the first stage, and pipework is recommended to be 3m from the property.

Clesse is currently developing a new third stage regulator to use within third stage meter boxes that have a manual UPSO reset. Third stage regulators have a lower pressure differential to cope with – 75mbar down to 37mbar. This means that it takes a lot more 'effort' for the lp gas to squeeze through the regulator orifice.

Subsequently, the regulator has to be physically larger than a standard second stage unit. However, Clesse has developed the 2402L balanced orifice regulator, which can pass 25kg/hr (350kW/hr) of propane with ease.

The three-stage system reduces pressure at the bulk vessel to 75mbar for transmission, which is then reduced to 37mbar at the property. This regulator has to have UPSO and could be

installed within the building, although this is not recommended.

The advantages of a three-stage system include bringing lpg into the same distribution format as natural gas; lower distribution pressures, which means any potential leakage could result in less lp gas being released, and the customer only having an UPSO to reset on the regulator, which avoids confusion. Pipework can also be less than 1m from the property, and compact, 'close coupled' vessel pressure to 75mbar regulators can be used on the bulk vessel, which stops the customer going near the vessel and potentially incorrectly resetting the OPSO if the lp gas runs out.

The disadvantages of a three-stage system are that often larger PE pipework is required due to lower distribution pressure, PE pipework over 63mm requires specialist installers, and there's another pressure control valve to

buy/fit/break/be interfered with.

Lp gas companies need to set their own standards on where and when to use a two or three-stage system. The maximum capacity required at the appliance has to be taken into consideration in deciding whether a third stage regulator will either a) pass the capacity, or b) be physically too large for the installation. There is no doubt that a three-stage system is safer if pipework is at risk of being damaged, but then we have been using the two-stage system for the last 50 years!

The question has to be asked – which system is best? The answer depends on the individual installation, risk assessment and proximity to habitable buildings.

An amendment to UKLPG Code of Practice 22 will be issued soon, which will try to bring lpg systems in line with the natural gas marketplace. However, as lpg has different properties to natural gas, Clesse is developing tailored lpg technology to operate in the same environment as our natural gas colleagues. Although it won't be mandatory, it will strongly suggest that the three-stage system be favoured.

Whatever your preference, Clesse UK can supply a system of lp gas control equipment to enable you to operate an efficient and effective lp gas supply system from any bulk vessel to any lp gas equipment.

**Contact Clesse (UK) Ltd on
07825 641786
www.clesse.co.uk**



Clesse BP2402.

Getting Tooled Up

By Peter Roberts,
Remanufacturing Services Ltd

Whatever vessel equipment you use or maintain, having the correct tools is essential to ensure maintenance and replacement work is carried out to good engineering standards. Over the years, RMS has realised that there is a shortage of specialised equipment to assist in the inspection and maintenance of domestic vessels and, to this end, has set about developing tools to meet the needs of the industry.

Firstly, the supply of wear gauges has greatly enhanced the safety of the industry, not only in the UK, but worldwide. It is now obligatory that all ACME threads be checked in this way.

More recently, the introduction of the safe swap, for use when changing relief valves on underground vessels, has had



ACME wear gauge.

such an impact that they have been widely adopted and are specified by many LP gas companies for use on all relief valve changes, including aboveground vessels. The units, which were shortlisted for a British Gas Safety Award, have been reported to be instrumental in preventing possible incidents.

Breaking the joint between the relief valve and the check device on an underground vessel is almost impossible with conventional tooling due to its confined location. The latest aid is a cracking tool for doing just

this. Compact and needing only a ratchet spanner to operate, it uses opposing forces to break the joint. As a result, it cannot disturb the joint between the check valve and the vessel, which is always a possibility with other methods of release.

Other lesser-known devices available include a drilling jig for snapped float gauge studs, and a relief valve adaptor for rapid suction when using a Gem compressor to de-gas vessels.

About to be launched is a chek-lok opening tool for emergency liquid withdrawal. Vessels can be fitted with any number of different manufacturers' chek-loks, whose opening characteristics vary considerably. The supply of adaptors to open the chek-loks is limited so, when the incorrect adaptor is used, it can vary in effectiveness from not opening the chek-lok to opening it to the

point of damage, which can result in a forced vessel uplift.

RMS has reviewed all the common chek-loks and has designed a very compact valve that is effective on all listed chek-loks. Final trials are taking place and it will be launched shortly.

It is evident that more and more vessels are being refurbished and many vessels are being re-valved in the field. Our current project is to design and sell suitable spanners for all the common valves. The range will include relief valves, chek-loks, fill valves and vapour valves. Their application will all be square drive ratchet, so they will be suitable for underground vessel valve replacement.

We appreciate the cooperation shown by several LP gas companies in assisting the development of these tools, and would advise anyone that has a special requirement for tooling, particularly where safety is concerned, to get in touch.

Contact Remanufacturing Services Ltd on 01792 224000
www.rmgsaseng.com

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DUTY MANAGEMENT

When the Orchid Group acquired a large rural pub in Kent that used lpg for heating and cooking, it called in Perry Scott Nash to provide risk assessments and ensure the site met requirements.



The Orchid Group acquired a large rural pub that used lpg for heating and cooking.

The Orchid Group, the sixth largest managed pub and restaurant company in the UK with over 290 outlets, has been working with safety consultant Perry Scott Nash to ensure its lpg installations meet requirements.

Last year, the Orchid Group acquired a large rural pub in Kent located in a remote area, which used lpg from two large vessels for cooking and heating. The vessels were located on the boundary of the pub beside the car park, and it soon became clear that there were potential issues with them, so Orchid contacted Perry Scott Nash.

Perry Scott Nash executive chairman Pat Perry said: "The metallic pipework, which ran under the car park, was unsafe. Guidance produced by the Health & Safety Executive advises that underground metallic pipework should be replaced with pipework made from materials, such as polyethylene, which will not corrode.

"The condition of the enclosure was also poor, with the fence around the tanks being made of wooden panels.

Not only was it not secure, it also offered minimal protection should a vehicle crash into it.

"The tanks themselves were also a cause for concern, as they appeared to be corroded and, finally, there were no procedures in place to secure the safe day-to-day management of the lpg itself."

Having established what the problems were, Orchid set about rectifying them. The metallic pipework beneath the car park was excavated and replaced with polyurethane pipe, and Calor Gas Ltd, which originally supplied the lpg vessels, was brought in to replace them.

The enclosure was then made safe and secure. An overhanging tree was removed along with an overhead power cable and the foliage was cut back to remove any sources of ignition. The wooden panels were replaced with a wire mesh fence and two gates provided for safe entry. The gates were lockable to prevent unauthorised access.

The final pieces of the rebuilding jigsaw were to install Armco barriers around the fence to stop the enclosure and

vessels being damaged by vehicles, and to install appropriate signage and fire fighting equipment.

Orchid then had the vessels tested to ensure they were properly earthed and the entire installation was inspected for leakage. Completing the physical side of the project was only half the story, however.

The lpg gas vessels and pipework were put onto a planned maintenance programme and are subject to annual inspections by a competent contractor. In addition, the manager and employees of the pub were trained on the day-to-day management of bulk storage of lpg and the emergency procedures to be followed in the event of a suspected leak or fire.

Perry Scott Nash also provided risk assessments for the ongoing management of lpg.

Pat said: "It's incumbent on all businesses who use lpg to ensure the highest levels of safety, whether they've just acquired an installation or have been using lpg for years. It's particularly relevant to

investigate the state of lpg storage if a business is acquired that already has lpg on site.

"Bear in mind that the company that owns the pipework may not be the same company that owns the tank or supplies the lpg, so it's important to check who is responsible for what. And the company that owns the pipework is responsible for its integrity, even if maintenance, inspection or replacements are carried out by a third party.

"Everybody, whether it's a business with lpg on site, a maintenance or installation company or a gas supplier, has a duty to ensure that the correct procedures are followed. They also have a duty to be proactive in ensuring that any potential hazards are flagged up and dealt with before they become serious.

"Lpg is a safe fuel, provided it's managed correctly. As long as situations are handled quickly and professionally, like Orchid did by proactively seeking support and guidance, then accidents can be avoided."

Contact Perry Scott Nash on 01438 745771
www.perryscottnash.co.uk



The enclosure and underground pipework were unsafe.



The enclosure was made safe and secure and pipework replaced.

Tankgas Offers New RegO Adapter

RegO's new 7580F-20 liquid evacuation adapter for vessel chek-lok valves is now available from the company's UK distributor Tankgas Equipment Ltd.

Martin Griggs at Tankgas said: "The new liquid evacuation adapter complements nicely the range of RegO products for use on domestic lpg vessels. It makes evacuating liquid through this type of chek-lok or drain valve much safer. The new design eliminates the need for any product leakage when the adapter is installed or removed from the chek-lok valve."

Once installed onto the chek-lok valve, the operating lever depresses a plunger that opens the chek-lok. When the operation is complete, the lever is used to close the chek-lok valve prior to the adapter being removed.

A built in bleed valve also allows for any trapped liquid to be discharged. The new adapter

is supplied with a built in nylon gasket to ensure a gas tight seal.

Martin said: "The new evacuation adapter is designed specifically for use with RegO 7572FC and 7580FC chek-lok excess flow valves. The adapter's operating handle opens and closes the equalising stem in these older style chek-

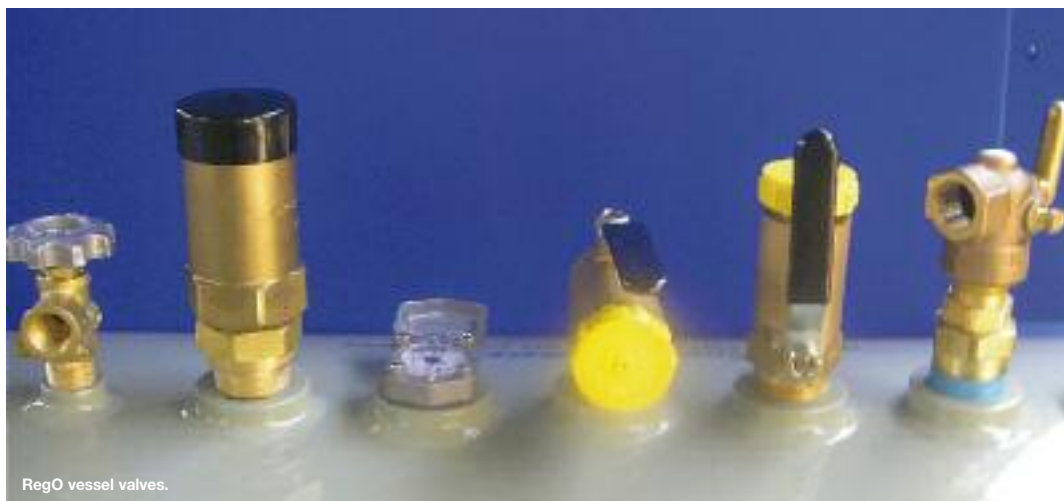
lok valves.

"This adapter is designed to eliminate the need for gas flow from the chek-lok when the adapter is installed or removed. A shutoff valve, such as a full port ball valve, must be installed at the outlet of the 7580F-20 adapter.

"Tankgas can offer complete

sets of valves for new or 20 year tests on vessels, including the Euro design PRV assemblies, vapour service valves, manual isolation fill valves, Rochester float gauges, chek-loks and liquid off take valves."

Contact Tankgas Equipment Ltd on 0121 506 2760
www.tankgas.co.uk



RegO vessel valves.



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www.combinedgas.com



Lpg Forklifts Bear Fruit

George Hammond has purchased a new fleet of ten Hyster Fortens lpg forklift trucks from long term supplier Barloworld Handling to handle fresh fruit at the Port of Dover.

George Hammond PLC is the only general stevedoring and freight handling company at the Port of Dover. The company discharges and stores fresh produce from ships operated by Africa Express Line and Seatrade Reefer, with weekly services from West Africa and Central America. Typical cargo includes palletised bananas, pineapples and melons for brands, such as Delmonte and Fyffes, and leading supermarkets, which are now sourcing supplies direct from producers.

James Ryeland, managing director of George Hammond, Port and Marine Services, said: "We provide an efficient, fast, safe and careful produce handling operation at the Port of Dover and the materials handling fleet is a critical element. We need maximum availability from the forklift fleet, as the ships have to be in and out quickly and the produce sorted and transferred immediately into temperature controlled store



George Hammond uses Hyster lpg forklifts to handle fresh fruit at the Port of Dover.

or direct to transport."

Ten new Hyster H3.5FT Fortens Advance lpg forklift trucks with 3,500kg lift capacity have recently been delivered to bolster the George Hammond operation. With a total fleet of 30 units, George Hammond handles approximately 6,000 pallets a week and dispatches around 70 road vehicles a day for UK and European distribution.

Cranes transfer pallets from the ships to the quayside where the new Hyster trucks, fitted with double and treble pallet handlers, transport the perishables directly into ambient transit sheds aligned to the

quayside. The produce is then scanned and either cross docked and loaded straight onto customer vehicles, or immediately transferred to the 5,500 pallet capacity temperature controlled store, which has ten chambers covering 0-15°C and features new ethylene scrubber units.

James said: "We are usually the first port of call for these vessels and the majority discharge only part cargoes at Dover. Sometimes the ships arrive back to back, so a reliable forklift fleet is essential for continuous operation and to ensure we offer a 24-hour flexible service.

"We own all our trucks and maintain them ourselves, with full support from Barloworld as we need it. We have bought Hyster equipment for many years, as they are extremely robust machines."

The new Hyster Fortens lpg trucks were selected due to their environmental performance and low exhaust emissions. This is particularly important to George Hammond as the trucks are used inside temperature controlled storage areas, and exhaust emissions can speed up the ripening process of bananas. Speed limiters, incorporating acceleration limitation, help to reduce fuel consumption and emissions even further and enhance levels of safety when picking from the store and transporting to the loading bays.

James said: "We have a 240 year heritage and continue to invest for the future to ensure we meet the exacting quality standards that our customers expect."

Contact Barloworld on 0800 137449 www.barloworld.co.uk

Beauclaire Re-launches Barbecue Range

Beauclaire has announced the re-launch of its barbecue range in the UK through sole UK distributor Towler & Staines.

Graham Staines at Towler & Staines said: "This is really good news. For some years

now, the Beauclaire barbecue has represented everything that is essential in outdoor cooking.

"For those who have not had the good fortune to use a Beauclaire, the unique flame pattern of the burner offers a

perfect heat spread that, combined with the thick cast griddles – either enamelled cast iron or non-stick cast aluminium – gives a perfect cooking surface, with no hot spots and no excuse to burn anything!"

New features on the Beauclaire barbecue include a patented double-sided Light griddle, an oven dome for each griddle large enough for chicken, beef joints and legs of lamb, integral retaining brackets, and a choice of small, family and large sizes.

Graham said: "You can cook everything from a slice of toast to a full roast using either the ridged or smooth sides of the Light griddle. Lpg consumption is also low



Oven domes are available.

as you only need a low flame due to its wide spread."

The Beauclaire Original barbecue set contains an lpg burner, a windshield, three legs and an enamelled cast iron griddle, and the Light set consists of an lpg burner, a windshield, three legs, a non-stick aluminium griddle and a drip can, with optional oven domes for both sets.

Contact Towler & Staines on 01535 682283 www.beauclaire.co.uk



The Light barbecue has a double-sided griddle.

DISPELLING WEBSITE MYTHS

Areas outside your trade can seem daunting but they don't need to be, says Barbara Aspin, business development manager at SiteWizard.



You never get a second chance to make a first impression.

Rather than using hours of valuable time trying to use that 'make it yourself within an hour' software or not having a website out of fear, SiteWizard can dispel some of the myths involved in creating a website.

You don't need to know the ins and outs of website design. You wouldn't expect your clients to know how to install lpg, and your website designer shouldn't expect you to know what the design trends are. They are there for guidance and can use any ideas you have along the way.

Website design doesn't have to be time consuming. Input from you is always vital, as this is your business' online representation but, if the right questions are asked by your designer, you can get a website up in no time.

Even if you work from recommendation, what point of call do potential customers have to check you out first? If you don't have a website then, in the online world, you don't exist. If you do but it's out of date, that's how potential customers will judge your business.

Websites don't have to be expensive or flashy. Have an idea ready, even if it is just a colour scheme, which will often reflect your logo.

Knowing your products and services is important in giving the

website direction and purpose. Don't bamboozle your visitors with too much technical information, as this may be overwhelming. It's also important that your website is easy to navigate to ensure that visitors can easily find the information that they are looking for.

Have a hook. What is going to draw people to read more about you when they find your

- Find a designer you are comfortable with. Having someone at the end of the phone or email who knows your website is important and, if you need a little handholding, your designer should understand.
- Have an idea ready, even if it is just your colour scheme, which will often reflect your logo.
- Know your services or products to give your website direction and purpose. Don't bamboozle your visitors with too much technical information, as this may be overwhelming, and it also gives them a reason to contact you.
- It is important that your website is easy to navigate to ensure that visitors can easily find the information that they are looking for.
- Ask your friends, family and colleagues for an honest opinion of your website. Don't be offended by the feedback you receive. If they are telling you that something is not good on your website, it probably isn't.
- What is going to draw people to read more about you when they find your website? Does your website shout about what your business offers? If not, then the message is probably too well hidden.
- You never get a second chance to make a first impression. If the images on your website are grainy and dull and the website is littered with typos, you will probably never hear the phone ring with new enquiries generated by your website.

website? From a first glance at your website, does it shout what your business is actually selling? If not, then the message is probably too well hidden.

You never get a second chance to make a first impression. If you were sending out a brochure about your company, it would probably be glossy and have no errors to give the right impression of your

business. Exactly the same is true with your website – if your images are grainy and dull and the website is littered with errors, you will probably never hear the phone ring with new enquiries from your website.

If you are looking for a new supplier for your business, do you get out the Yellow Pages and trawl through page after page of adverts, calling each business until you find the correct one? These days, with nearly every office, home and mobile phone connected to the internet, it has never been easier to do research.

Customers will visit a website to research a company and never pick up the phone. If your website doesn't look good, contain the information that they are looking for or have contact details readily displayed, you will never know that they were interested in your products or services.

Getting online and keeping up with the changing way people do research doesn't have to be scary. Get advice from a company experienced in designing for your sector that will guide you and present working examples from within your industry.

**Contact SiteWizard on
08450 608860
www.sitewizard.co.uk/lpg**



Introduction & Welcome...

As a result of high petrol pump prices, the Coalition Government announced in the Budget that it was to scrap the fuel duty escalator and replace it with a fair fuel stabiliser under which duty decisions will depend on the price of a barrel of oil. As a consequence of this decision the Government cannot plan its longer term duty levels, and so has only announced its intent in detail for this year, and so far as LPG is concerned in principle for 2012. These announcements do not represent any change from the duty levels already announced for these years.

It is obviously disappointing that we no longer have the long term duty horizon. The Government will finalise the mechanism for this brand new way of setting duty after discussions with interested parties. UKLPG found huge support for long term commitment for autogas amongst MPs and so will be seeking further meetings and engagement with Treasury to impress on them the role LPG can play and the importance of setting out the relationship between autogas and other fuel duties in the longer run.

The government has also made a number of other announcements that will affect LPG. In particular, it has published its plan to implement the Renewable Heat Incentive, and talked about interim grants for rural renewables. The details of The Green Deal, this Governments flagship energy policy, are gradually emerging and we have invited a Government official to come and talk to us about these at our Conference in May. I urge you to book up for the morning workshop on these important topics.

Rob Shuttleworth

The Latest on the Competency Review

Gas Safe Register are currently carrying out a Competency Review which began last Autumn. The first stage of this was largely to agree the scope of the Review with the HSE. To ensure that the review would properly capture the industries views, Gas Safe Register (GSR) began by carrying out a workshop program held around the UK where stakeholders were able to participate and feed into the process. This stage was completed in the middle of February and comprised of 20 workshops that were attended by approximately 750 industry stakeholders from training providers, self-employed engineers, manufacturers, retailers and large service organisations.

GSR has since issued a survey on the 28th February which is available to complete online. It is a result of the feedback provided by the workshops, it is being independently moderated, and is divided into three key themes which group the survey questions:

- 1. Achieving Competence** focused on routes to entrance such as apprenticeships.
- 2. Maintaining Competence** looking at the 5 year cycle of competence, ACS, CPD, and core.
- 3. Applying Competence** inspection regimes, and will have some overlap with Enforcement Review.

Following the closing date, and subsequent collation of the surveys,

GSR have confirmed that they will then hold a further round of workshops as a means of verifying the findings prior to compiling the final report which will be presented to the HSE for a decision and a route forward.

The report itself will not include any recommendations from GSR, but instead will present a summary of the findings and suggestions made by the industry for HSE to consider and evaluate.

Members Lounge



UKLPG would like to welcome the following organisations as new AFFILIATE members...

Four by Four Publishing
Assured Domestic and General

Coming up...

The Governemnt has announced its response to Lord Young's review of Health & Safety in the UK.

The HSE will continue to focus their efforts on 'high-hazard' industries which includes LPG filling plants, but has announced a change in its inspection regime with regard to other businesses. We will be seeking clarification from the HSE of what this means for your customers.

We plan to hold a workshop later in the year on Health & Safety related matters, in particular COMAH charging, Process Safety Performance Indicators and of course Pipework Replacement - watch out for details.

UKLPG Annual Conference... Agenda Latest!

May is now fast approaching and the Annual Conference agenda is shaping up to offer delegates some great insights into what's going on in the LPG market within the UK and around the world:

10.00 – 10.45

UKLPG Activities including the 2013 Showcase in London and a global Exceptional Energy update

10.45 – 13.00

4 x 1 hour workshop sessions:

Technical Workshop – *a technical forum including the latest from Europe.*

LPG and The Green Deal – *a chance to discuss current government policies on rural energy supply.*

Autogas Workshop – *updates on the UKLPG Approval Network, latest nozzles and hoses, and an update from Europe.*

LPG Training Workshop – *the latest on LPG and the National Occupational Standards and the Competency Review.*

14.00 – 17.00

Main Speakers:

Nick Black – Editor, Argus Media

Chris Holmes – Purvis & Gertz

Andrew Ford – SHV

Rob Pannell – Zero Carbon Hub



**...UKLPG 2011 Conference...Wednesday
18th May 2011...The Cardiff Hilton**

Launch of the new UKLPG Website



The finishing touches to the newly anticipated website are being made, and members of UKLPG should be aware of a significant change it brings. In April all members will be allocated a unique membership reference number, this will be displayed on your membership certificate and emailed to the main organisation contact. This unique reference will be your organisation's method of logging into the website, and with it will be a password unique to your organisation. In combination these login details will automatically give you your discount from the online shop if you are purchasing Codes of Practice or delegate registration and allow you access into the online Members Lounge for all the latest documents and news from UKLPG.

Watch Out for specific details that will be emailed to you in April!

Documents NOW available:

NEW! Sutherland Table Latest

NEW! A link to the online Competency Review Survey

NEW! Flues in Voids Latest from Gas Safe



Autogas News

Budget 2011

In the 2011 Budget, the Chancellor confirmed a reduction in fuel duty for LPG equivalent to the 1p per litre reduction in duty rates for the main fuels.

As regards the differential in duty we have with petrol and diesel, LPG duty had benefitted from a five year commitment on fuel duty as part of the Fuel Duty Escalator. This has been abolished and replaced with a Fair Fuel Stabiliser which allows for duty to rise by RPI only when oil prices are high, but by RPI plus 1ppl when oil price falls below a trigger point. As part of this policy the Government has signaled its intent with regard to LPG until 1st August 2012 – a continued duty differential reduction as would have happened under the previous policy.

Beyond that date there is now no signal on either main fuel duty or its relationship to LPG duty as the Government will be seeking the views of oil and gas companies and motoring groups before setting the final trigger price and mechanism for implementation. UKLPG will be in discussion with MP's and government officials for a replacement of the long term commitment for LPG.

Insurance Companies fully support Vehicle Register

Following the launch of the Vehicle Register to insurance companies last year through the Association of British Insurers, UKLPG has undertaken a follow up survey with the individual motor insurance underwriters to establish the use of the Register.

To date, every company that has responded has confirmed "yes" to the question "Do you require any vehicle modified to run on lpg to be on the UKLPG Vehicle Register for insurance cover to be provided?"

The companies committing to this are promoted on the DriveLPG website in our new insurance section <http://www.drivelpg.co.uk/insurance.php> At the time of writing there were already 22 on the list representing most of the major companies, with more being added all the time.

Interest in LPG rises

The DriveLPG website has shown a significant increase in visitors in January and February this year. The previous record was in August 2008 at the time of the spike in petrol prices and UKLPG having a stand at the British International Motor Show. 2009 dropped back to around 7000 which gradually increased to around 10,000 last year helped by the launch of the Vehicle Register. However in January we saw a massive rise to over 17,000 and this momentum has continued with over 14,500 in February

We have also seen an increase in the number of vehicles being placed on the Register by installers. February was our biggest ever month which is an encouraging start to the year.

DriveLPG website visitors August 2008 - February 2011



LPG Included in the Core Module of the New National Occupational Standards

National Occupational Standards (NOS) define the competences which apply to job roles or occupations in the form of statements of performance, knowledge and the evidence required to confirm competence. They cover the key activities undertaken within the occupation in question under all the circumstances the job holder is likely to encounter. They can be used to:

- describe good practice in particular areas of work
- set out a statement of competence which bring together the skills, knowledge and understanding necessary to do the work
- provide managers with a tool for a wide variety of workforce management and quality control
- offer a framework for training and development
- form the basis of National Vocational Qualifications (NVQs) , Scottish Vocational Qualifications (SVQs) and Vocationally Related Qualifications (VRQs).

The NOS are currently going through a national review process as requested by Government, with a view to providing greater opportunities for the UK workforce to upskill. All of the sector skill councils have been tasked with the review of NOS for their sector. In the case of gas this is being carried out by EU Skills. UKLPG has an expert working group, led by Ian McCluskey of Shell Gas Ltd, who have been working on behalf of the industry, and reporting to the Technical and Safety Management Team (TSMT).

The review has now passed the first phase, this would see the introduction of a new basic/core module and UKLPG is please to confirm that this new core module explains the difference between Natural Gas and LPG. This is a positive first step, as it ensures that anyone training via the NOS route will gain exposure and understanding of both fuels from the outset.

The second phase of the process is

currently ongoing, and this is to establish the other relevant modules that are needed for LPG. The working group is proposing that this should be 10 further modules to cover all the skills needed and is currently being agreed within the TSMT.

A workshop to discuss NOS and other training matters such as the Competency Review being facilitated by Gas Safe Register is being held as part of the UKLPG Annual Conference, details of the event are contained within these pages or available at www.uklpg.org. It is also worth noting that the review of NOS does not include a review of the current ACS. However feedback on ACS is part of the overall Competency Review.

production comes from refineries. One of the largest sources of LPG in Europe comes from the North Sea, a source which is predicted to have peaked and is now in decline. In contrast, the US has new opportunities for LPG production as the result of producing LPG from Shale. While each site's geology is unique this has large-scale potential for the production of LPG and ensures that the US will not have a supply issue into the future.

However both markets have seen a decline in recent years in its domestic and autogas use, in part as it competes with other technologies and as energy efficiency becomes the focus of the day ensuring customers are using less energy.

North America and European LPG Markets – Similar or Different?

Market	Production	Consumption
North America	56 million tonnes	60 million tonnes
Europe	41 million tonnes	42 million tonnes

(source: Purvin & Gentz)

There are a few things which make the European market distinct from North America: the first is it has an exceptionally large cylinder market, and within that business model Europe uses dealers to distribute them which is a very different to that of North America where their small cylinder business still remains part of a direct customer relationship. Secondly there is a general principle of asset sharing for large-scale storage of LPG within the European industry, something which is rarely seen in the US.

The US is the largest producer of LPG in the world, 60% of which is produced from gas extraction in contrast to Western Europe where 67% of its LPG

Ultimately both markets:

- Rely on Autogas for growth
- Both have seen decline in recent years
- Both have consumers with high purchasing power

The conclusion: there are “more similarities than differences” between the two markets and working together through the World LP Gas Association there are opportunities to learn and share information.

LPG PLANT

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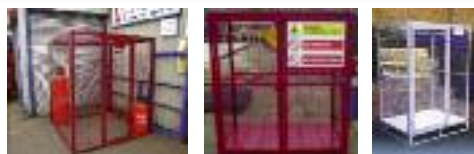


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FOR SALE

2 x 7 Tonne Propane vessels
BS5500 manufactured 1983 last tested 2004

2 x 15 Tonne Propane vessels
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Complete with Pipework and valves for cylinder/tanker filling,
water protection and 4 ninnelt cylinder filling machines if required.

2 x 30 Tonne Propane tanks
Manufactured by Euroweld in 1979 to BS 1515 part1
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Volvo FL6/18 1995 Tank 1989 test ran out 2009

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REGISTER AS AN LP GAS READER

LP Gas contains everything you need to keep up-to-date with the latest issues facing the lp gas industry – everything from autogas to training to product features.

If you have not registered as an *LP Gas* reader in the last two years, complete and return the form below to receive your six issues a year, and your free copy of the annual LP Gas Directory.



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PLEASE TICK THOSE BOXES WHICH APPLY TO YOUR COMPANY AND SIGN AND DATE BELOW

Wholesale supplier of lpg

Dealer of lpg

For which supplier?

Distributor of lpg

For which supplier?

Please tick which market sectors:

- Residential
- Manufacturing
- Camping
- Caravanning
- Agricultural
- Commercial
- Industrial
- Other

Manufacturer of lpg-fired equipment

What type of equipment (e.g. fires, lighting)?

Distributor of lpg-fired equipment

What type of equipment (e.g. fires, lighting)?

Manufacturer of lpg equipment

What type of equipment
(e.g. meters, storage)?

Distributor of lpg equipment

What type of equipment
(e.g. meters, storage)?

Builders merchant/retailer

Maintenance contractor

End user

Transporter

Training

Supplier of autogas products/services

Engineering services

Installer

Other:

Please tick how many employees:

- 1-10
- 11-50
- 51-100
- Over 100

SIGNATURE:

DATE:

ELAFLEX



The lightweight hoses drivers are asking for!

The Pressure Systems Safety Regulations require that an LPG installation be properly maintained in good repair so as to prevent danger. This includes the hoses being maintained within a recognised test regime. Based on UKLPG CoP 14 this would include annual testing.

We offer:

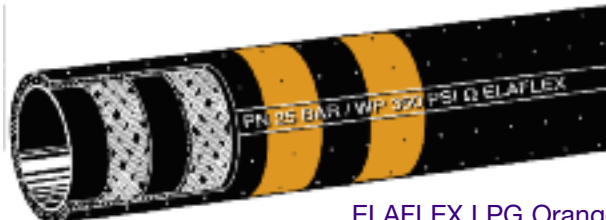
- ◆ A cost effective professional, documented approach to hose testing
- ◆ Onsite LPG hose testing
- ◆ Testing to COP 14
- ◆ Testing of your ACME threads
- ◆ Refitting of hoses
- ◆ Certifying of hoses
- ◆ Supply of new LPG hoses
- ◆ The work is done by our trained/certified LPG engineer.

The benefits

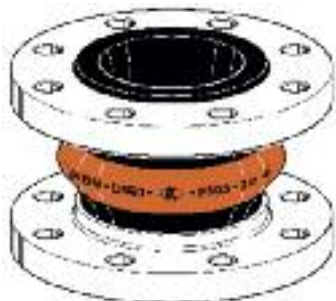
The work is done ONSITE at your premises, so no hassle sending the hoses away, waiting days and having the vehicle off the road. Little downtime as your vehicle will be ready same day.

Elaflex produce

- ◆ **NEW** ZVG2 lightweight LPG nozzle.
- ◆ Orange band LPG reeling & vapour hoses for tankers, factories to EN1762.
- ◆ Lightweight, service life – guaranteed.
- ◆ LPG plasticiser free dispenser hoses.
- ◆ Hoses are fully marked for traceability.
- ◆ LPG rubber bellows/expansion joints.
- ◆ Safety break couplings ARK 19.3. Non rusting. Reconnectable under pressure! Call us now for more details or have our representative call you.
- ◆ LPG hoses to EN 1762 for liquid and vapour for use on tankers, dispenser, skids and plants as well as rubber expansion joints. They also produce breakaway couplings which are reconnectable under pressure and LPG nozzles. Elaflex hoses are guaranteed and backed up with technical advice and a field inspection service available on request.



ELAFLEX LPG Orange band product transfer hoses to EN 1762



LPG expansion joint/
other types available

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