Pressure Controls EXPRESS

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Liquefied Natural Gas (LNG)

By Iain Johnston, Territory Manager Scotland

This application relates to an order recently won for pressure control equipment for nitrogen blanketing systems onboard Liquefied Natural Gas (LNG) carriers.

Worldwide natural gas demand is growing rapidly especially for use in generating electricity as it is a clean burning fuel and will contribute to the world's energy security by diversifying sources of supply.

LNG Carrier

Continued on page 3.

INSIDE

QUOTE OF THE MONTH

"How you spend your time is more important than how you spend your money. Money mistakes can be corrected, but time is gone forever."

– David B Norris

Product/System Spotlight

Hydrostatic Burst Testing

NA-45

The NA-45 was designed to integrate with a customer's existing burst chamber. The system is capable of providing up to 3,000 PSIG of water at a controlled ramp rate to meet ASTM Standard D1599. This system is used to burst natural gas pipe up to a 6-inch diameter, and 36-inch lengths. Pressure profiles are created and downloaded to the system via a computer interface using our standard ER3000 Tune software. *For questions or inquiries, please contact Jeff Wakefield, Systems Sales Engineer at 763-241-3316 or jwakefield@tescom.com.*

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TechnoPharm 2005

Tescom Europe exhibited at the TechnoPharm show in Nuremberg from October 11 -13, 2005. Customers, contractors and OEM's from the Pharmaceutical, Biotech and Food industries used these three days to see new product developments, make new contacts and start-up new co-operations.

Outside the beautiful centre of Nuremberg, the TechnoPharm and Powtech exhibition opened their doors for 3 days and became the international meeting point for many engineers. More than 13,000 visitors came to see 946 companies presenting their products, services and expertise. On a stand of 12 m² Tescom Europe successfully participated for the first time. Products on display included the newly designed product range ***Pharmpure***™, the sterile ***Fisher***® ***CIP*** regulators and equipment for laboratory gas supply.

Tescom Europe's Oliver Schimkus & Matthias Blome

Many discussions were had regarding the connection standards used in the German speaking markets. While customers in the US and the UK specify mostly according to ASME BPE, the situation differs for Germany, Austria and Switzerland. Different DIN and ISO standards are used in addition to some very specific connections according to company standards. These do not only have different clamps, flanges or threads, but varying tube diameters and wall thicknesses. These variations create problems when defining a standard product configuration.

The material of construction and the option of many regulator versions with FDA and USP Class VI compliant soft goods was very much appreciated. Many of the visitors considered the ***Fisher***® ***CIP*** regulators an important addition to our product portfolio. The Clean Service Certificate of Conformance meets most of the existing requirements. For some applications the delta-ferrite content of the SST material needs to be verified in an additional non-destructive test.

Many new professionals from outside the industry were also met. The investment required for our participation should certainly pay back within the following months.

Literature

Industrial Controls

Petro-chemical/Analyzer Brochure - Form No. 1778
Revised - brochure
Scrap old stock.

04 Series - Form No. 1792
Revised - catalog page
Please use up old stock.

Flow Formulas - Form No. 567
Revised - information sheet
Scrap old stock.

Please order through our 'Distributor's Only' section of our web site or contact Robyn Seitzer at rseitzer@tescom.com.

Trade Shows

ISPE Scotsdale, AZ
November 6-8, 2005
JW Marriott Desert Ridge
Scotsdale, AZ USA

Fuel Cell Seminar
November 14-18, 2005
Palm Springs Convention Center
Palm Springs, CA USA
Booth 242

SEMICON Japan
December 7-9, 2005
Makuhari Messe (Nippon Convention Center)
Tokyo, JAPAN
Booth 8B-501

"One of the very nicest things about life is the way we must regularly stop whatever it is we are doing and devote our attention to eating."

– Luciano Pavarotti with William Wright
Pavarotti, My Own Story

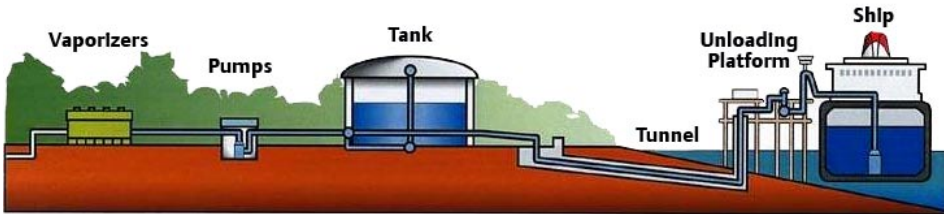
LNG, continued

Liquefied natural gas is the liquid form of the gas people use in their homes for heating and cooking. Natural gas is primarily methane, with low concentrations of other hydrocarbons, water, carbon dioxide, nitrogen, oxygen and some sulphur compounds. When natural gas is cooled to -161°C (-258°F), it becomes a clear, colourless, odourless liquid which is highly flammable but not corrosive nor toxic. During the process known as liquefaction, natural gas is cooled below its boiling point which removes most of the compounds leaving primarily methane gas. Converting natural gas to a liquid reduces its volume by a ratio 600:1, making it economical to transport between continents in specially designed ocean tankers. These double-hulled carriers are designed to handle the low temperature of LNG and are insulated to limit the amount of LNG that evaporates. The boil-off gas is sometimes used to supplement fuel for the carriers. LNG carriers are up to 1000 feet long and require a minimum water depth of 40 feet when fully loaded. There are currently 136 ships worldwide which transport more than 120 million metric tons of LNG every year. One LNG tanker can transport enough LNG to equal 600 tanker ships carrying natural gas. This offers a safe and efficient way of transporting large volumes of natural gas by sea to receiving terminals in preparation for re-gasification and delivery to markets.


Lake Charles, Louisiana

LNG supplies come primarily from locations where large gas discoveries have been made, such as Algeria, Trinidad, Venezuela, Nigeria, Norway, Qatar, Oman, Australia and Alaska. Typically, these locations are in remote areas with insufficient pipeline infrastructures, making LNG carriers a very economically viable alternative. There are 40 LNG receiving terminals located worldwide. Japan, South Korea, the United States and a number of European Countries import LNG. Renewed interest in liquefied natural gas has seen the recent reactivation of two mothballed U.S. liquefied natural gas receiving terminals, Elba Island in 2001 and Dominion Cove Point in 2003. Clean-burning LNG can help meet growing worldwide demand for a price-competitive energy source and currently provides one percent of our economic natural gas needs, a figure that could triple by 2020 according to the Energy Information Administration (EIA).

Many of the specially designed carriers used to transport LNG have Moss spherical containment tanks. Moss tankers use nitrogen to purge below-deck spaces to aid in fire prevention. The customer needed help to reduce and control the nitrogen pressure and we were able to offer a combination of our 44-1100 and 44-2200 Series regulators fitted with inlet valves, gauges, relief valves and outlet couplings to meet their needs. We successfully won a contract to supply the pressure control equipment for 12 off nitrogen blanketing systems onboard new-build vessels with a further 23 forecast over the next 12 months. ▮



Holiday Schedule

Facilities/Offices Closed:

USA
November 24-25
Thanksgiving

FEEDBACK? COMMENTS? Click Here!