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Linde achieves development milestone for next generation gas cylinder capabilities

Munich, 18 October 2016: Linde Gases, a division of The Linde Group, today announced it will showcase a number of pioneering packaged gases capabilities via its concept gas cylinder valve, EVOS™ DCi, at EuroBlech in Hannover, Germany from 25-29 October.

The EVOS™ DCi valve is among a number of digital concept solutions that Linde is developing in order to demonstrate leading edge digital technologies for the packaged gases sector. The EVOS™ DCi valve is able to deliver live data on cylinder location and gas information including gas type, volume of gas, rate of gas usage and even cylinder temperature. With the capability to transmit and store data in the Cloud, the solution allows customers immediate access to current and historical gas information via laptops, PC's and mobile devices, giving customers significant insight into their gas usage and processes.

Such intelligence can have significant benefits to a gas customer's business in terms of increased productivity, traceability and user safety, optimisation of inventory and improved supply chain management. In addition to remote access to contents and location information, Linde foresees future features such as tilt sensors and accelerometers to detect when a cylinder is falling or has been dropped, as key to improving safety.

Linde launched the first model of the EVOS™ valve family - EVOS™ Ci - in 2015. The EVOS™ Ci represented a significant departure from standard gas industry valves, not only in its striking, state-of-the-art ergonomic design, but also in terms of safety and productivity benefits delivered. Importantly,

Linde AG
Linde Gases Division
Seitnerstrasse 70
82049 Pullach, Germany

Linde AG
Registered Office: Munich
Court of Registration: Munich
HRB 169850
Ust-IdNr.: DE 113822613
Ust-Nr.: 040 225 50007

Supervisory Board:
Wolfgang Reitzle, Chairman
Executive Board:
Wolfgang Büchele, Chairman,
Christian Bruch, Bernd Eulitz,
Sanjiv Lamba

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the range employs a uniquely designed, quick-action lever in place of the more traditional hand-wheel mechanism for opening and closing of the valve. This innovative open/close functionality ensures easy opening to improve efficiency, fast closing in case of emergency and, as an extra safety feature, the ability to physically see at a distance whether the valve is open or closed.

The EVOS™ design also incorporates several additional new features including a safety ‘interlock’ button to mitigate the risk of the valve being opened accidentally; a uniquely designed guard to improve user safety and prevent damage to the valve; and optimal grip design for ease of lifting and manoeuvring over short distances as well as ensuring the cylinder can be easily and safely lifted to heights. EVOS™ valves are also capable of operating at 300 bar working pressure – significantly more than standard industry valves. With the EVOS™ Ci and DCi models, there is also a real-time content gauge to allow users to see the amount of gas left at a glance.

Linde’s innovative digital technologies for packaged gases will be showcased at EuroBlech at stand number 142, hall 13, from October 25-29 in Hannover, Germany.

About The Linde Group

In the 2015 financial year, The Linde Group generated revenue of EUR 17.944 bn, making it one of the leading gases and engineering companies in the world, with approximately 65,000 employees working in more than 100 countries worldwide. The strategy of The Linde Group is geared towards long-term profitable growth and focuses on the expansion of its international business with forward-looking products and services. Linde acts responsibly towards its shareholders, business partners,

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employees, society and the environment in every one of its business areas, regions and locations across the globe. The company is committed to technologies and products that unite the goals of customer value and sustainable development.

For more information, see The Linde Group online at www.linde.com.

Contact

Susan Brownlow
Public Relations Manager, Linde Gases Division
Telephone: +44 (0)7739 456292
Email: susan.brownlow@linde.com

Rachel Kelly or Danielle Mathews
Hill + Knowlton Strategies
Telephone: +44 207 413 3008 or +44 207 413 3432
Email: rachel.kelly@hkstrategies.com or danielle.mathews@hkstrategies.com