

Applications in the News

since 2005, and has built three large air separation units with a total capacity of 2,625 tons per day that supply gaseous oxygen, nitrogen, and argon. Further strengthening the association, Tata steel has contracted for an additional 600 tons per day of high-pressure gaseous nitrogen.

Tiger Optics Taps New Heights with the HALO-500-H2O™



The HALO-500-H2O™, designed to measure higher levels of moisture in gases, is gaining notice from gas manufacturers and metrology institutes, reports Tiger Optics LLC (www.tigeroptics.com). “Any quality

gas laboratory that is doing moisture analysis would be interested,” said Tim Butler, who, as the founder and Sales Director of Process Analyser Systems Ltd., encouraged Tiger Optics to develop the HALO-500 instrument in 2008. Butler subsequently sold the device to The Linde Group’s BOC.

In the packaged gas market, the HALO-500 covers the moisture specifications of a myriad of products. The device can measure moisture in samples such as hydrogen, helium, nitrogen, oxygen, carbon monoxide, carbon dioxide, the noble gases, and clean dry air. Renowned for its swift response, the HALO-500 permits a facility’s quality control lab to switch between different samples in a matter of seconds, instead of minutes. “The HALO line now constitutes well over half of our sales,” said Tiger Optics’ founder and Chief Executive Lisa Bergson.

Ultrasonic Testing and Homecare

Homecare companies can save millions of dollars by retesting their medical aluminum gas cylinders using the LifeGas Sonic+ ultrasonic examination (UE) technology, accord-

ing to LifeGas (www.lifegas.com), the US medical gases business of Linde North America (www.lindeus.com).

LifeGas was issued the first Department of Transportation (DOT) exemption in the industry for the use of UE in lieu of the traditional hydrostatic testing method for re-qualifying compressed gas cylinders. UE is an advancement over hydrostatic testing. It is completely external using ultrasonic waves to “see” the inside of the cylinder to detect flaws. “This is particularly critical with medical gas cylinders, which require pristine interiors,” said Anthony Eafrazi, LifeGas Homecare Market Manager.

DOT, which regulates cylinder retesting processes, has granted LifeGas approval to extend the re-qualification period of aluminum cylinders from the normal five years to 10 years under a special permit. “This special permit allows aluminum cylinders to remain in service twice as long as does the hydrostatic process,” Eafrazi said. “Homecare companies can cut their re-test costs in half, which can lead to substantial savings.” ■

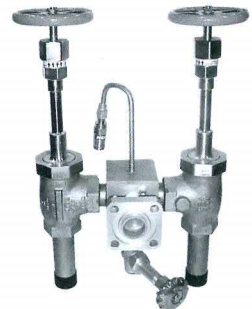
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