

STAR-01/10

Contact: Suzanne Horrigan

Compression, Not Fusion, Determines Sight Glass Safety, White Paper Concludes



TWINSBURG, Ohio, January 8 2010 – L.J. Star, a major supplier of fused sight glasses used in chemical and pharmaceutical process equipment, reports that a new white paper refutes misconceptions about glass to steel fusion in industrial sight glass construction. The white paper, written by Karl Schuller of Herberts Industrieglas GmbH and published on the website www.ProvenUnderPressure.com, gives the mathematical formula used to predict the strength of various combinations of steel and glass types. The white paper explains how compression, rather than fusion, determines the safety and reliability of a sight glass.

The white paper should dispel the myth held by some in the process industries that sight glasses made with borosilicate glass have less fusion with the metal ring and are therefore less reliable. In contrast, this white paper proves that a sight glass constructed with borosilicate glass and a duplex stainless steel ring will withstand four and a half times more operating pressure than a same size [sight glass](#) made with soda lime glass and Hastelloy®. This has significant implications for plant operators and equipment designers, because sight glasses under pressure fail by shattering catastrophically.

The five-page white paper, titled “Compression vs. Fusion in Sight Glass Construction,” is available on the website of the Process Observation Technology Forum, a repository for peer-reviewed technical information about sight glasses, sight flow indicators, and other equipment used for visual inspection of process pipes, tanks and vessels. The white paper may be viewed at the website www.ProvenUnderPressure.com.

To obtain additional information, contact L.J. Star Incorporated, P.O. Box 1116, Twinsburg, OH 44087. Phone: 330-405-3040. Fax: 330-405-3070. Email: view@ljstar.com. Or visit website: www.ljstar.com/pubs/26.htm.

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About L.J. Star

L.J. Star Incorporated provides an extensive line of process observation equipment – sight glasses, lights, sanitary fittings, and level gage instrumentation. Product lines include Metaglas[®] Safety Sight Windows, Lumiglas[®] Explosion Proof Lights and Cameras, Visual Flow Indicators, Sight Ports, Sanitary Clamps, Magnetic Level Gages and Gage Glass. For additional information, or to request third-party documentation of standards compliance and product performance claims, contact L.J. Star Incorporated, P.O. Box 1116, Twinsburg, OH 44087. Phone: 330-405-3040. Fax: 330-405-3070. Email: view@ljstar.com. Website: <http://www.ljstar.com/>.

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