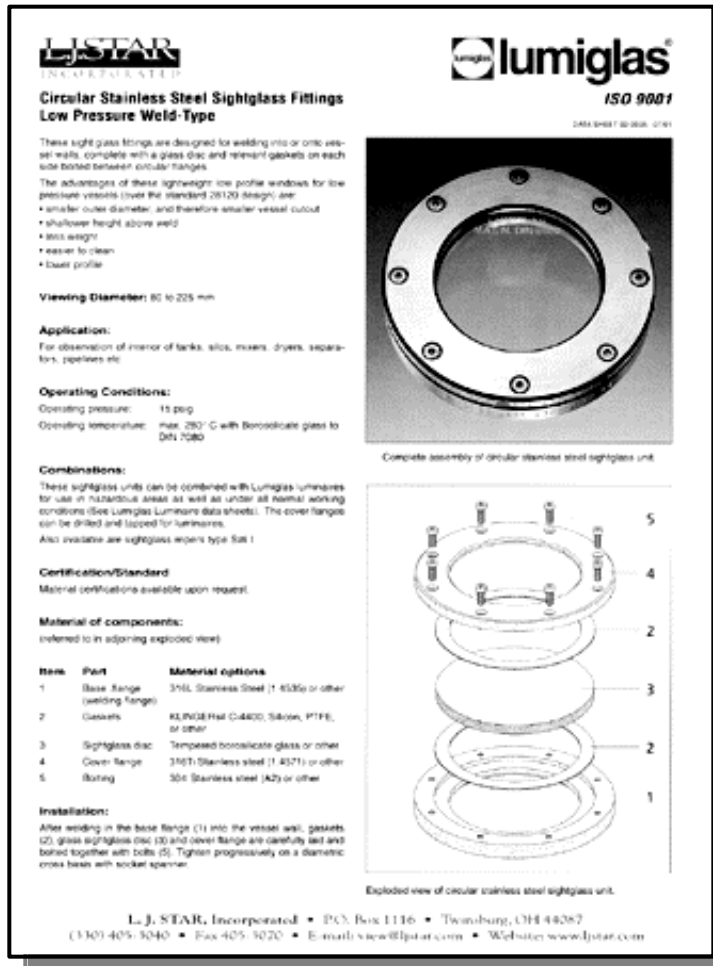


## New Bulletin Describes Lightweight Stainless Steel Sightglass Fittings



**L.J. STAR**  
INCORPORATED

**lumiglas**  
ISO 9001

**Circular Stainless Steel Sightglass Fittings  
Low Pressure Weld-Type**

These sight glass fittings are designed for welding into or onto vessel walls, complete with a glass disc and resilient gaskets on each side bolted between circular flanges.

The advantages of these lightweight, low profile windows for low pressure vessels (over the standard 26120 design) are:

- smaller outer diameter, and therefore smaller vessel cutout
- shorter height above weld
- easy to clean
- easier to install
- lower profile

**Viewing Diameter:** 80 to 225 mm

**Application:**  
For observation of interior of tanks, silos, mixers, dryers, separators, paperlines etc.

**Operating Conditions:**  
Operating pressure: 15 psig  
Operating temperature: max. 280°C with borosilicate glass to DIN 7080

**Combinations:**  
These sightglass units can be combined with Lumiglas luminaires for use in hazardous areas as well as under all normal working conditions (see Lumiglas Luminaires data sheets). The cover flange can be drilled and tapped for luminaires.  
Also available are sightglass experts type S&I

**Certification/Standard:**  
Material certifications available upon request.

**Material of components:**  
inferred to in adjoining exploded view)

Item	Part	Material options
1	Base flange (welding flange)	316L Stainless Steel (1-8536) or other
2	Gaskets	KLINGBEHL (K400), Silicon, PTFE, or other
3	Sightglass disc	Tempered borosilicate glass or other
4	Cover flange	316Ti Stainless steel (1-8571) or other
5	Bolting	304 Stainless steel (A2) or other

**Installation:**  
After welding in the base flange (1) into the vessel wall, gaskets (2), glass sightglass disc (3) and cover flange are carefully set and bolted together with bolts (5). Tighten progressively on a diametric cross basis with socket spanner.

**Complete assembly of circular stainless steel sightglass unit**

**Exploded view of circular stainless steel sightglass unit**

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A brief-form data sheet from L.J. Star describes a line of stainless steel weld-type sightglass fittings especially designed for low-pressure applications. These lightweight, low profile fittings have a smaller outer diameter than conventional fittings and present a lower profile above the weld.

The data sheet includes a close-up photo and an exploded-view drawing to illustrate the components and design of the fittings, plus a dimensional drawing and a table of specifications.

The operating pressure rating for the units described here is 15 psig and operating temperature is 535°F (280°C). Sizes range from DN50 to DN200 with viewing diameters from 3.15 inches (80 mm) to 8.86 inches (225 mm).

Highlighted specifications include the all stainless steel metal elements, a choice of gasket materials and the use of tempered borosilicate glass as standard. The units can also be specified to include integrated illumination sources and / or integral sightglass wipers.

To order your copy of Data Sheet 02-0035, contact L.J. Star Incorporated, P.O. Box 1116, Twinsburg, OH 44087. Phone: 330-405-3040. Fax: 330-405-3070. Email: view@ljstar.com. Web site: www.ljstar.com