

Observation Port — Technical Data Sheet

LSQ-075-B Brass × Standard Glass | General-Purpose Series

Product Overview

The LUMIGLAS® LSQ-075-B Observation Port is the entry-level model of the LSQ-075 series, designed for general-purpose visual inspection of pipelines and process equipment operating under standard service conditions. The body is precision-machined from free-cutting brass (CW614N / C36000), offering excellent machinability, good corrosion resistance, and cost-effective performance for ambient and low-temperature applications. The standard LUMIGLAS® glass lens provides clear, reliable optical visibility for routine flow and level monitoring tasks.



LSQ-075-B Observation Port (Brass / Standard Glass)

Technical Specifications

Parameter	Specification
Model	LSQ-075-B
Series	LSQ-075 Observation Port
Body Material	Brass (CW614N / C36000)
Sight Glass Material	Standard Glass (LUMIGLAS®)
Pipe Connection (NPT)	3/4"
Max. Outer Diameter	1-1/4" (31.8 mm)
Protrusion Length	5/8" (15.9 mm)
Overall Length	1-1/8" (28.6 mm)
Weight	0.11 kg (0.24 lb)
Max. Operating Pressure	50 PSI (3.45 bar)
Max. Operating Temperature	500°F / 260°C
Applicable Standard	Custom engineered — ANSI B16.5 reference
Certifications / Notes	General-purpose visual inspection, standard service

Dimensional Reference

All dimensions in Imperial (inch) with SI equivalents in parentheses.

Pipe Connection	Max. Outer Dia.	Protrusion	Total Length
3/4" NPT	1-1/4" (31.8 mm)	5/8" (15.9 mm)	1-1/8" (28.6 mm)

Typical Applications

- Pipeline flow monitoring in water treatment, HVAC, and general process plants
- Visual inspection of liquid levels and fluid colour in storage and transfer systems
- Low-pressure pneumatic lines and compressed-air system observation
- Food and beverage processing lines operating under ambient conditions
- Laboratory and light industrial equipment requiring inline visual confirmation

Installation & Safety Notes

- Install without thrust, pressure, or torsional stress on the sight glass lens.
- Ensure proper pipe alignment before tightening; misalignment may cause lens fracture.
- Use PTFE thread tape or brass-compatible pipe sealant on NPT threads.
- Do not exceed rated operating pressure (50 PSI) or temperature (500°F / 260°C).
- For replacement lenses or upgrade to stainless or high-temperature variants, contact Lumistar technical sales.

LSQ-075 Series — Model Comparison

Model	Body Material	Glass Type	Max. Temp.	Max. Press.	Grade
LSQ-075-B	Brass	Standard Glass (LUMIGLAS [®])	500°F / 260°C	50 PSI	Standard
LSQ-075-S	SS316	Borosilicate (LUMIGLAS [®])	1000°F / 538°C	50 PSI	Industrial
LSQ-075-M400	Monel [®] 400	Fused Quartz	1832°F / 1000°C	50 PSI	★ Flagship

Ordering Note: Please specify model number when ordering. Custom materials, special lengths, and ANSI-flanged configurations are available upon request.