

Alfa Laval LKFL In-line Sight Glass

Tank Accessories

Introduction

The Alfa Laval LKFL In-line Sight Glass is an accurate, tight-fitting gauge glass that permits direct distortion-free visual inspection of process conditions, products, liquid levels and cleaning in a pipeline.

Application

The LKFL In-line Sight Glass is a rigid, hygienic sight glass housed in acid-resistant steel. It is designed for visual inspection of a product in a hygienic pipeline across the food, beverage, pharmaceutical and many other industries.

Benefits

- Reliably clear viewing quality
- Provide clear, continuous and unobstructed visibility of processes
- Sight glass construction and range

Standard design

The Alfa Laval LKFL In-line Sight Glass consists of a stainless steel semi-bright tube with two screw connections for the borosilicate glass discs. The connections are placed opposite each other to enable positioning of the glass very close to the internal wall of the tube to facilitate cleaning.

The glass discs are internally sealed with EPDM rubber seals and, from the outside, pressed against the seal by a nut via a spacer.

An optional halogen light source, which is fitted onto one of the sockets, is available. The halogen light source consists of two stainless steel tubes assembled with a clamp.

The standard LKFL connections are welding ends. Upon request, the LKFL In-Line Sight Glass is also available with male part connections.



TECHNICAL DATA

Pressure

Max. product pressure:	2000 kPa (20 bar)
Min. product pressure:	Full vacuum
Max. pressure shock:	3000 kPa (30 bar)

Temperature

Temperature range:	-10 °C to +140 °C (EPDM)
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Max. thermal shock:	D t 120 °C (140 °C P 20 °C)
Bulb, halogen:	24 V DC, 24 Watt, G4
Bulb socket standard:	G4, Max. 35 V DC
Cable:	Max. OD 10.5 mm
Reflector:	OD 50 mm

PHYSICAL DATA

Materials

Product wetted parts:	Acid-resistant steel AISI 316L
Other steel parts:	Stainless steel AISI 304
Glass:	Borosilicate glass
Seals:	EPDM rubber
Finish:	Semi bright

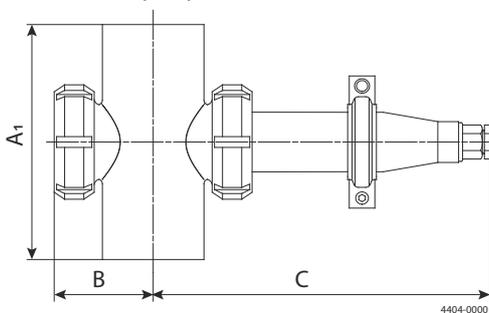
Sizes

38 mm (1 1/2"), 51 mm (2"), 63.5 mm (2 1/2"), 76.1 mm (3") and 101.6 mm (4")

Connections

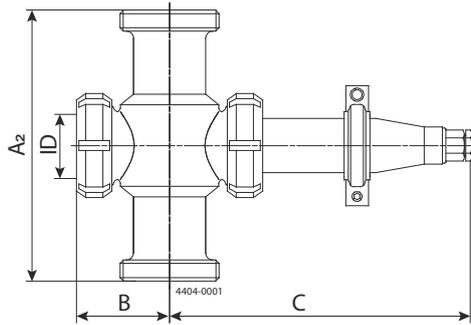
Type LKFL sight glass is available with welding ends or with male parts according to optional standards, e.g. ISO, DS, SMS, DIN, BS, or with clamp liners

Dimensions (mm)



Size (mm)	1½"	2"	2½"	3"	4"
A1	103	152	152	205	205
B	50	66	64	73	91
C	179	194	191	199	244
ID	20	34	34	44	60
Weight (kg)					
Without light	0.8	1.9	1.2	1.7	3.3
With light	1.3	2.5	1.8	2.3	3.9

Overall length



Size (mm)	1½"	2"	2½"	3"	4"
SMS	142	192	200	252	274
DS	142	192	200	252	252
ISO clamp	128	177	177	229	236
IDF for ISO tube	145	195	195	247	247
IDF for SWG tube	145	195	195	247	264
BS	146	196	196	248	258
DIN	146	196	202	264	264

Options

Material grades

- Seals of Nitril (NBR) or flourinated rubber (FPM)

Ordering

Please state the following when ordering:

- Size
- Connections. If male parts, please state standard

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