

Alfa Laval Union Sight Glass based on DIN 11851

Tank Accessories

Introduction

The Alfa Laval Union Sight Glass based on DIN 11851 is a sight glass that permits direct distortion-free visual inspection of process conditions, products, liquid levels and cleaning inside storage tanks, mixers, reactors, and other vessels. It is typically used for high-pressure, high-temperature processes.

Affordable and easy-to-operate, the leakproof sight glass makes it possible for operators to view the color, clarity, turbidity, or other critical characteristics of the product or cleaning status inside the vessel.

Inspection enables early detection of potential issues and quick response. This helps prevent costly downtime, protect plant equipment and improve operational efficiency.

Application

The Alfa Laval Union Sight Glass based on DIN 11851 is designed for the hygienic applications across the dairy, food, beverage, brewery, personal care, biotechnology and pharmaceutical industries.

Benefits

- Improved operational efficiency
- Enables early detection and quick response to potential issues
- Reliable operation and more uptime
- Quick and easy to install
- Low maintenance requirements

Standard design

The sight glass consists of: a welding flange (1); a grooved collar nut (2); a glass disc (3); and two gaskets (4-5). The product wetted side of the gasket is made of EPDM. The welding part (1) and glass disc (3) are delivered with a material certificate EN10204.3.1.B/2.2 as standard. The sight glass can be fitted with an optional Alfa Laval miniVISION Light Fitting.



TECHNICAL DATA

Temperature

Temperature range:	-10 °C to +140 °C (EPDM)
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Pressure

Max. product pressure:	Max. 6 bar (600 kPa)
Min. product pressure:	1 mbar absolute (1 Torr)

PHYSICAL DATA

Materials

Welding flange:	AISI 316L, material certificate 3.1B/ADW2 to DIN 50049
Grooved collar nut:	AISI 304
Glass disc:	Borosilicate to DIN 7080 (max. 280 °C), material certificate 2.2
Gasket cover side:	PTFE
Gasket product wetted side:	EPDM

Dimensions (mm)



Size DIN DN	ID	a	A	OD	D
65	65	22	49	72	112
100	100	32	65	106	148
125	125	20	60	132	178

Options

- Product wetted side of gasket in FPM, PTFE or Silicone
- miniVISION light fitting

Ordering

- DN size
- Material type of product wetted gasket side
- miniVISION light fitting, if needed

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