Sight glass level indicator Model LGG

WIKA data sheet LM 33.01

Applications

- Continuous level indication without power supply
- Direct indication of the level
- Individual design and corrosion resistant materials make the products suitable for a broad range of applications
- Chemical, petrochemical industry, oil and natural gas extraction (on- and offshore), shipbuilding, machine building, power generating equipment, power plants
- Oil and gas, heat transfer and refrigeration systems, plants for cryogenics

Special features

- Process- and system-specific production
- Operating limits:
 - Operating temperature: -196 ... +374 °C 1)
 - Operating pressure: Vacuum to 250 bar 1)
- Wide variety of different process connections and materials
- Illumination optional
- Heating and/or insulation optional
- Individual limit values. For application limits, the joint consideration of temperature and pressure is required!



Sight glass level indicator model LGG-E

Description

The main element of the sight glass level indicator is the body. Incorporated into this body are the liquid channel (if necessary the heating channel) and the seating faces for the chambered seals and sight glasses.

Onto the body are mounted, or are already integrated, the valve heads and process connections. Drain or vent are also possible.

The glasses and/or mica discs as well as the seals are fitted, secured and sealed with the aid of U-bolts and covers or pressure frames. Glasses from borosilicate glass in accordance with DIN 7081 are used.

For steam, the glasses can be used up to 243 °C, with mica design to 300 °C. For other media, temperatures up to 300 °C are possible, in special cases up to 374 °C. The use of mica is needed for specific applications.





Operating principle

Reflex glasses per DIN 7081

In the viewing direction, incident light strikes the reflective grooves of the sight glass plate and are refracted into the liquid present. With gases, the light is reflected. Thus the filling level is visible as a darker column, the gaseous area as a silvery column over it.

Reflex glasses are very well suited for the display of clear liquids.



Transparent glasses per DIN 7081

From the rear, incident light passes through both sight glass plates with the media between them. The fill level is visible as a line (meniscus) or directly due to the liquid itself.





Viewing direction per DIN 7081

Refraction principle with mica shields

From the rear, incident light from a lamp passes through both mica shields with the media between them. The lamp and the media are arranged at an angle. In the gaseous phase, the light passes straight through, with liquids, the light is refracted. Thus the level is visible as a black column, with the gaseous area visible as a light column above.

If unprotected sight glasses are used in boiler systems with aqueous media, high temperatures and high pH values can lead to increased glass erosion. The effect of glass corrosion is increased with the introduction of chemical additives, such as in water treatment. The geometric changes to the sight glass resulting from the erosion lead to risks in the operational safety.

For temperatures from 243 °C, WIKA recommends the use of **transparent sight glasses with mica design**. These prevent chemical attack at high water temperatures on the otherwise unprotected glass.



Construction of sight glass level indicators

Body

The main body of the sight glass level indicator, contains the liquid channel

Cover

For the clamping of the sight glass plate

Flat gasket

Chambered sealing between the liquid channel and the environment

Glass

Sight glass plates per DIN 7081 from borosilicate glass

Cushion

Mechanical protection between cover and glass

U-bolt, nut

Hold the forces from the internal pressure

Glass size

Standard lengths L of sight glass plates per DIN 7081, width 34 mm, thickness 17 mm

Visible length VL

The entire visible length in the sight glass, glass separations are included

Individual visible length ESL

Visible range of a single segment

Segment

Field of view consisting of a single sight glass plate

Glass distance A

Non-visible range, results from the linking together of segments

Visible lengths and glass sizes in mm

Length	Glass size									
	2	3	4	5	6	7	8	9	10	11
L	140	165	190	220	250	280	320	340	370	400
ESL	120	145	170	200	230	260	300	320	350	380
Number of segments	Visible le	ength VL								
1	120	145	170	200	230	260	300	320	350	380
2	285	335	385	445	505	565	645	685	745	805
3	450	525	600	690	780	870	990	1,050	1,140	1,230
4	615	715	815	935	1,055	1,175	1,335	1,415	1,535	1,655
5	780	905	1,030	1,180	1,330	1,480	1,680	1,780	1,930	2,080
6	945	1,095	1,245	1,425	1,605	1,785	2,025	2,145	2,325	2,505
7	1,110	1,285	1,460	1,670	1,880	2,090	2,370	2,510	2,720	2,930

Matrix valid for glass separation A = 45 mm

The visible length SL can deviate from the specified value by ± 3 mm due to construction.





Valve heads

Valve heads isolate the vessel from the sight glass level indicator. They consist of the valve body and the head piece. They are actuated by a valve with quick closing lever or handwheel. In general, they are fitted with a ball-check valve as a safety element.



Ball-check valve

The ball-check valve should prevent any major spillage from the sight glass level indicator in the event of any glass or mica breakage or other sizable leakage. For this purpose there is, under the valve seat, a ball within a recess. As soon as the display starts to leak, the incipient flow lifts the ball from the recess and forces it against the valve seat (pressure > 0.5 bar). In this way, the flow is sharply reduced. The closing of the valve presses the ball back into its starting position.

Situation in normal operation Ball-check value on glass break Situation during commissioning Image: Ima

Illustration of the ball-check valve principle

Model overview

Sight glass level indicator	Material	Display	Max. pres-	Temperature	Glass size	Number of
			sure in bar	range in °C		segments
Reflex indicator						
"Carbon-Line" version, model LGG-RP	Steel A350LF2	Sight glass	100	-40 +300	49	1 5
Compact version with side pieces, model LGG-E	Steel 1.0460/1.0570	Sight glass	40	-10 +300	2 11	1 3
Standard version, model LGG-RE	Steel 1.0570 (A350LF2)	Sight glass	160	-10 +300	211	1 5
	Stainless steel 1.4404 (316L)			-196 +300		
High-pressure version, model LGG-RI	Steel 1.5415 (15Mo3)	Sight glass	250	-10 +100	29	1 5
	Stainless steel 1.4404 (316L)			-196 +100		
Weld-in version, model LGG-WR	Steel 1.0570 (A350LF2)	Sight glass	40	-10 +300	29	1
	Stainless steel 1.4404 (316L)			-196 +300		
Transparent indicator						
"Carbon-Line" version, model LGG-TP	Steel A350LF2	Glass (mica)	100	-40 +300	49	1 5
Standard version, model LGG-TE	Steel 1.0570 (A350LF2)	Glass (mica)	160	-10 +300	2 11	1 5
	Stainless steel 1.4404 (316L)			-196 +300		
High-pressure version, model LGG-TI	Steel 1.5415 (15Mo3)	Glass (mica)	250	-10 +100	29	1 5
	Stainless steel 1.4404 (316L)			-196 +100		
Superheated steam version,	Steel 1.5415 (15Mo3)	Glas + mica	160	-10 +100	29	1 5
model LGG-T3	Stainless steel 1.4404 (316L)			-196 +300		
Weld-in version, model LGG-WT	Steel 1.0570 (A350LF2)	Glass (mica)	40	-10 +300	29	1
	Stainless steel 1.4404 (316L)			-196 +300		
Glass tube, standard, model LGG-GA	Brass	Glass tube	10	-10 +120	110 1,200	1
	Stainless steel 1.4571 (316Ti)	13 mm		-10 +200	mm	
Glass tube, for large lengths with interposing glass-holder, model LGG-GB	Stainless steel 1.4404 (316L)	Glass tube 16 mm	25	-10 +200	150 4,500 mm	1 3
Refraction indicator						
Highest-pressure version, model LGG-M	Steel 1.5415 (15Mo3)	Mica	160/250	-10 +374	2 11	1 9

Examples

Reflex indicator, "Carbon-Line" version, model LGG-RP



Reflex indicator, compact version with side pieces, model LGG-E



Transparent indicator, standard version, model LGG-TE



Reflex indicator, high-pressure version, model LGG-RI



Model overview of valve heads

Valve head	Material		Max.	Operation	Ball-	Mount	Thru-
	Body	Head piece	pressure in bar		check valve		way
Glass tube fitting with hand- wheel, model LGV-01	Stainless steel	Stainless steel	PN 250	Handwheel	yes	top/bottom	Offset
Glass tube fitting with quick closing lever, model LGV-03	Stainless steel	Stainless steel	PN 100	Quick closing lever	yes	top/bottom	Offset
Compact glass tube fitting without valve, model LGV-04	Stainless steel	Stainless steel	PN 10	Handwheel	no	top/bottom	angled
Glass tube fitting compact with handwheel, model LGV-05	Brass or stain- less steel	without	PN 10	without	no	top/bottom	angled
Double valve, model LGV-18	Steel 15Mo3	Stainless steel	PN 160	Double hand- wheel, double- lever	yes	lateral	angled
Double valve high pressure, model LGV-19	Steel 15Mo3	Stainless steel	PN 250	Double hand- wheel, double- lever	yes	lateral	angled
Forged valve with handwheel, model LGV-33	Steel A350LF2, nitrocarburised	Stainless steel	PN 250	Handwheel	yes	top/bottom	Offset
Forged valve with quick closing lever, model LGV-38	Steel A350LF2, nitrocarburised	Stainless steel	PN 100	Quick closing lever	yes	top/bottom	Offset
Straight valve with handwheel, model LGV-51	Steel, stainless steel	Stainless steel	PN 250	Handwheel	yes	lateral, back	straight
Angled valve with handwheel, model LGV-52	Steel, stainless steel	Stainless steel	PN 250	Handwheel	yes	lateral	angled
Offset valve with handwheel, model LGV-53	Steel, stainless steel	Stainless steel	PN 250	Handwheel	yes	top/bottom	Offset
Straight valve with quick closing lever, model LGV-56	Steel, stainless steel	Stainless steel	PN 100	Quick closing lever	yes	lateral, back	straight
Angled valve with quick closing lever, model LGV-57	Steel, stainless steel	Stainless steel	PN 100	Quick closing lever	yes	lateral	angled
Offset valve with quick closing lever, model LGV-58	Steel, stainless steel	Stainless steel	PN 100	Quick closing lever	yes	top/bottom	Offset

Examples

Forged valve with handwheel, model LGV-33



Angled valve with quick closing lever, model LGV-57



Straight valve with handwheel, model LGV-51



Valve head arrangement

The valve arrangement is always specified in relation to the viewing direction.

Rotatable field of view



Fixed field of view



Back mount, left-handed Ô Ø 0 0 0 0 0 0 GHL

Straight valve

Angled valve Left mount (lateral)



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Straight valve Back mount, right-hand



Straight valve Right mount (lateral)



Angled valve Right mount (lateral)





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Sight glass level indicator, reflex, "Carbon-Line" version Model LGG-RP



Specifications		
Material	Steel A350 LF2, nitrocarburised	
Body	40 x 40 mm, forged	
Cover	80 x 30 mm, forged	
Sight glass	Borosilicate, reflex per DIN 7081	
Max. operating pressure	100 bar ¹⁾	
Temperature range	-40 +243 °C (steam) -40 +280 °C	
Process connections	 Male thread 1/2 NPT, 3/4 NPT Weld stub 1/2", 3/4" Flange DIN/EN: DN 15 50, PN 16 100 Flange ANSI: 1/2 2", class 150 600 	
Centre-to-centre distance M	freely selectable, min. visible length SL + 180 mm	
Vent	Plug 1/2 NPT (option: Valve)	
Drain	Plug 1/2 NPT (option: Valve)	
Glass size	49	
Number of segments	15	
Suitable valve heads Handwheel Quick closing lever 	Model LGV-33 (PN 250)Model LGV-38 (PN 100)	

1) Depending on the temperature, the material properties must be observed

Valve arrangement



Sight glass level indicator, reflex, compact version with side pieces Model LGG-E



	Specifications	
	Material	Steel 1.0460, 1.0570
Body		40 x 30 mm, machined
	Cover	Clamping through side components, hinged
	Sight glass	Borosilicate, reflex per DIN 7081
	Max. operating pressure	40 bar ¹⁾
	Temperature range	-10 +243 °C (steam)
	Process connections	 Flange DIN/EN: DN 15 50, PN 16 40 Flange ANSI: 1/2 2", class 150 300
	Centre-to-centre distance M	freely selectable, min. visible length SL + 80 mm
	Vent	Plug G 3/8 (option: Valve, ball cock)
	Drain	Plug G 3/8 (option: Valve, ball cock)
	Glass size	211
	Number of segments	13
	Suitable valve heads	integrated with ball-check valve, mounting components from stainless steel

1) Depending on the temperature, the material properties must be observed

Valve arrangement

Sight glass level indicator, reflex, standard version Model LGG-RE



1) Depending on the temperature, the material properties must be observed



Sight glass level indicator, reflex, high-pressure version Model LGG-RI

Version with valve hea	d, lateral, model LGV-52	Version with valve head, top/bottom, model LGV-53
Specifications	Steel version	Stainless steel version
Material	Steel 1.5415 (15Mo3)	Stainless steel 1.4404 (316L)
Body	140 x 40 mm, machined	
Cover	Pressure frame	
Sight glass	Borosilicate, reflex per DIN 7081	
Max. operating pressure	250 bar ¹⁾	
Temperature range	-10 +100 °C	-196 +100 °C
Process connections	 Male thread 1/2 NPT, 3/4 NPT Weld stub 1/2", 3/4" Flange DIN/EN: DN 15 50, PN 16 250 Flange ANSI: 1/2 2", class 150 1,500 	
Centre-to-centre distance M	$ freely selectable, min. visible length SL + 180 \\ freely selectable, visible length SL \leq M (with n$	
Vent	Plug G 3/8 (option: Weld stub, flange, valve or bal	ll cock)
Drain	Plug G 3/8 (option: Weld stub, flange, valve or bal	ll cock)
Glass size 29		
Number of segments	15	
Suitable valve heads Handwheel	Model LGV-51, LGV-52, LGV-53	

1) Depending on the temperature, the material properties must be observed



Sight glass level indicator, reflex, weld-in version Model LGG-WR



Specifications	Steel version	Stainless steel version	
Material	Steel 1.0570	Stainless steel 1.4404 (316L)	
Body	40 x 40 mm, machined		
Cover	40 x 40 mm, machined		
Sight glass	Borosilicate, reflex per DIN 7081		
Max. operating pressure	40 bar 1) (display must be included in the pressure test f	or the vessel)	
Temperature range	-10 +243 °C (steam) -10 +300 °C	-196 +243 °C (steam) -196 +300 °C	
Overall length GL	Visible length SL + 43 mm		
Glass size	2 9 (larger on request)		
Number of segments	1		

1) Depending on the temperature, the material properties must be observed

Sight glass level indicator, transparent, "Carbon-Line" version Model LGG-TP



1) Depending on the temperature, the material properties must be observed



Sight glass level indicator, transparent, standard version Model LGG-TE







Sight glass level indicator, transparent, high-pressure version Model LGG-TI

Version with valve hea	ad, lateral, model LGV-52	Version with valve head, top/bottom, model LGV-53			
Specifications	Steel version	Stainless steel version			
Material	Steel 1.5415 (15Mo3)	Stainless steel 1.4404 (316L)			
Body	140x 40 mm, machined				
Cover	Pressure frame				
Sight glass	Borosilicate, transparent per DIN 7081				
Max. operating pressure	250 bar ¹⁾				
Temperature range	-10 +100 °C	-196 +100 °C			
Process connections	 Male thread 1/2 NPT, 3/4 NPT Weld stub 1/2", 3/4" Flange DIN/EN DN 15 50, PN 16 250 Flange ANSI 1/2 2", class 150 1,500 				
Centre-to-centre distance M	entre-to-centre distance M ■ freely selectable, min. visible length SL + 180 mm (with mounted valve head model LGV-53) ■ freely selectable, visible length SL ≤ M (with mounted valve heads model LGV-51, LGV-52)				
Vent Plug G 3/8 (option: Weld stub, flange, valve or ball cock)					
Drain	Plug G 3/8 (option: Weld stub, flange, valve or ball cock)				
Glass size	29				
Number of segments	15				
Suitable valve heads Handwheel	Model LGV-51, LGV-52, LGV-53				

1) Depending on the temperature, the material properties must be observed



Sight glass level indicator, transparent, superheated steam version Model LGG-T3



Other materials on request

1) Depending on the temperature, the material properties must be observed



Sight glass level indicator, transparent, weld-in version Model LGG-WT



Specifications	Steel version	Stainless steel version		
Material	Steel 1.0570	Stainless steel 1.4404 (316L)		
Body	40 x 40 mm, machined			
Cover	40 x 40 mm, machined			
Sight glass	Borosilicate, transparent per DIN 7081 (option: Mica design)			
Max. operating pressure	40 bar ¹⁾ (display must be included in the pressure test for the vessel)			
Temperature range	-10 +243 °C (steam, without mica design) -10 +300 °C (steam, with mica design) -10 +300 °C	-196 +243 °C (steam, without mica design) -196 +300 °C (steam, with mica design) -196 +300 °C		
Overall length GL	Visible length SL + 43 mm			
Glass size	2 9 (larger on request)			
Number of segments	1			

1) Depending on the temperature, the material properties must be observed

Sight glass level indicator, glass tube, standard Model LGG-GA



Specifications	Version without valve	Version with valve
Material	Stainless steel 1.4571	Stainless steel 1.4571 or brass 2.0401
Sight glass	Glass tube, borosilicate, diameter 13 mm	
Max. operating pressure	10 bar ¹⁾	
Temperature range	-10 +80 °C (with plexi protective cover) -10 +150 °C (with stainless steel protection)	-10 +200 °C
Process connections	 Male thread G 1/2 Flange DIN/EN DN 15 25, PN 10 	
Centre-to-centre distance M	110 1,200 mm, visible length SL + 70 mm	150 1,200 mm, visible length SL + 110 mm
Vent	Plug G 3/8	Plug G 1/2
Drain	Plug G 3/8	Plug G 1/2
Glass size	Centre-to-centre distance M - 20 mm	Centre-to-centre distance M - 65 mm
Number of segments	1	
Suitable valve heads Glass tube fitting	Model LGV-04	Model LGV-05

1) Depending on the temperature, the material properties must be observed

Sight glass level indicator, glass tube, for large lengths with interposing glass-holder Model LGG-GB



Specifications	
Material	Stainless steel 1.4404 (316L)
Sight glass	Glass tube, borosilicate, diameter 16 mm
Max. operating pressure	25 bar 1)
Temperature range	-10 +200 °C
Process connections	Male thread G 1/2Flange DIN/EN DN 15 25, PN 25
Centre-to-centre distance M	150 4,500 mm, visible length SL + 130 mm
Vent	Plug
Drain	Plug
Glass size	150 4,500 mm (use interposing glass-holder from 1,500 mm)
Number of segments	13
Suitable valve heads Handwheel Quick closing lever	Model LGV-01 Model LGV-03

1) Depending on the temperature, the material properties must be observed

Sight glass level indicator, refraction, highest-pressure version Model LGG-M



1) Depending on the temperature, the material properties must be observed

Other materials on request

Valve arrangement Model LGV-18, LGV-19

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Valve heads

Model LGV-01 Glass tube fitting with handwheel



Model LGV-03 Glass tube fitting with quick closing lever



Model LGV-04 Compact glass tube fitting without valve



Model LGV-05 Compact glass tube fitting with handwheel



Specifications	
Materials Body Head piece	Stainless steel Stainless steel
Construction	machined
Pressure range	PN 25
Operation	Handwheel
Mount	top/bottom
Connection to body	Glass tube 16
Rotatable	yes
Thru-way	offset
Seat position	inline
Valve stem thread	internal
Drain	yes
Ball-check valve	yes

Specifications	
Materials Body Head piece	Stainless steel Stainless steel
Construction	machined
Pressure range	PN 25
Operation	Quick closing lever
Mount	top/bottom
Connection to body	Glass tube 16
Rotatable	yes
Thru-way	offset
Seat position	inline
Valve stem thread	internal
Drain	no
Ball-check valve	yes

Specifications	
Body material	Stainless steel 1.4571
Construction	cast
Pressure range	PN 25
Operation	without
Mount	top/bottom
Connection to body	Glass tube 13.5
Rotatable	yes
Thru-way	angled
Seat position	without
Valve stem thread	without
Drain	yes, G 3/8
Ball-check valve	no

Specifications	
Materials	
Body	Brass 2.0401 or stainless steel 1.4571
Head piece	Stainless steel
Construction	machined
Pressure range	PN 10
Operation	Handwheel
Mount	top/bottom
Connection to body	Glass tube 13.5
Rotatable	yes
Thru-way	angled
Seat position	inline
Valve stem thread	internal
Drain	yes, G 1/4
Ball-check valve	no

Model LGV-18, double valve



Model LGV-19, double valve high pressure



Model LGV-33, forged valve with handwheel



Model LGV-38, forged valve with quick closing lever



Specifications	
Materials Body Head piece	Steel 15Mo3 Stainless steel
Construction	forged
Pressure range	PN 160
Operation	Double handwheel / lever
Mount	lateral
Connection to body	flanged
Rotatable	no
Thru-way	angled
Seat position	inline
Valve stem thread	internal
Drain	no
Ball-check valve	yes

Specifications	
Materials Body Head piece	Steel 15Mo3 Stainless steel
Construction	machined
Pressure range	PN 250
Operation	Double handwheel / lever
Mount	lateral
Connection to body	flanged
Rotatable	no
Thru-way	angled
Seat position	inline
Valve stem thread	internal
Drain	no
Ball-check valve	yes

Specifications	
Materials Body Head piece	Steel A350 LF2 Stainless steel
Construction	forged
Pressure range	PN 250
Operation	Handwheel
Mount	top/bottom
Connection to body	Screwed nipple
Rotatable	yes
Thru-way	offset
Seat position	inline
Valve stem thread	internal
Drain	yes, 1/2 NPT
Ball-check valve	yes

Specifications	
Materials Body Head piece	Steel A350 LF2 Stainless steel
Construction	forged
Pressure range	PN 250
Operation	Quick closing lever
Mount	top/bottom
Connection to body	Screwed nipple
Rotatable	yes
Thru-way	offset
Seat position	inline
Valve stem thread	internal
Drain	yes, 1/2 NPT
Ball-check valve	yes

Model LGV-51, straight valve with handwheel



Specifications	
Materials Body Head piece	Steel, stainless steel Stainless steel
Construction	machined
Pressure range	PN 250
Operation	Handwheel
Mount	lateral/back
Connection to body	Screwed nipple
Rotatable	no
Thru-way	straight
Seat position	inline
Valve stem thread	internal
Drain	no
Ball-check valve	yes

Model LGV-52, angled valve with handwheel



Model LGV-53, offset valve with handwheel



Specifications	
Materials Body Head piece	Steel, stainless steel Stainless steel
Construction	machined
Pressure range	PN 250
Operation	Handwheel
Mount	lateral
Connection to body	Screwed nipple
Rotatable	no
Thru-way	angled
Seat position	inline
Valve stem thread	internal
Drain	no
Ball-check valve	yes

Specifications	
Materials Body Head piece	Steel, stainless steel Stainless steel
Construction	machined
Pressure range	PN 250
Operation	Handwheel
Mount	top/bottom
Connection to body	Screwed nipple
Rotatable	yes
Thru-way	offset
Seat position	inline
Valve stem thread	internal
Drain	yes
Ball-check valve	yes

Model LGV-56, straight valve with quick closing lever



Model LGV-57 Angled valve with quick closing lever



Model LGV-58, offset valve with quick closing lever



Specifications	
Materials Body Head piece Construction	Steel, stainless steel Stainless steel machined
Pressure range	PN 100
Operation	Quick closing lever
Mount	lateral/back
Connection to body	Screwed nipple
Rotatable	no
Thru-way	straight
Seat position	inline
Valve stem thread	internal
Drain	no
Ball-check valve	yes

Specifications	
Materials Body Head piece	Steel, stainless steel Stainless steel
Construction	machined
Pressure range	PN 100
Operation	Quick closing lever
Mount	lateral
Connection to body	Screwed nipple
Rotatable	no
Thru-way	angled
Seat position	inline
Valve stem thread	internal
Drain	no
Ball-check valve	yes

Specifications	
Materials Body Head piece	Steel, stainless steel Stainless steel
Construction Pressure range	machined PN 100
Operation	Quick closing lever
Mount Connection to body	top/bottom Screwed nipple
Rotatable	yes
Thru-way	offset
Seat position	inline
Valve stem thread Drain	internal yes
Ball-check valve	yes

Accessories

Illumination

The illumination is designed for backlighting of viewing slots in accordance with DIN 7081 and of viewing slots of mica indicators. Through the variation in the segment length and number, and also in the lighting strength, the illumination can be matched to the application. Versions for hazardous areas are also available.



Sight glass extender

Using the acrylic glass extender, the sight glass can be insulated from low temperatures. The window is thus maintained through the insulation.



Indicator for low-water level

This low-water mark serves as a warning indicator for the operator. Form, size and lettering vary depending on the design of the water-level indicator.

The position of the low-water mark is always specified from the centre of the lower process connection.



Spare parts

Name	Description	Order number
Glass set Rx	 1x sight glass reflex borosilicate size x 1x flat gasket size x 1x cushion size x 	
Glass set R2	Size 2 (140 x 34 x 17 mm)	119442
Glass set R3	Size 3 (165 x 34 x 17 mm)	119444
Glass set R4	Size 4 (190 x 34 x 17 mm)	119446
Glass set R5	Size 5 (220 x 34 x 17 mm)	119447
Glass set R6	Size 6 (250 x 34 x 17 mm)	119448
Glass set R7	Size 7 (280 x 34 x 17 mm)	119450
Glass set R8	Size 8 (320 x 34 x 17 mm)	119451
Glass set R9	Size 9 (340 x 34 x 17 mm)	119452
Glass set R10	Size 10 (370 x 34 x 17 mm)	119453
Glass set R11	Size 11 (400 x 34 x 17 mm)	119454
Glass set Tx	1x sight glass transparent borosilicate size x	
	 1x flat gasket size x 1x cushion size x 	
Glass set T2	Size 2 (140 x 34 x 17 mm)	119477
Glass set T3	Size 3 (165 x 34 x 17 mm)	119476
Glass set T4	Size 4 (190 x 34 x 17 mm)	119475
Glass set T5	Size 5 (220 x 34 x 17 mm)	119473
Glass set T6	Size 6 (250 x 34 x 17 mm)	119472
Glass set T7	Size 7 (280 x 34 x 17 mm)	119467
Glass set T8	Size 8 (320 x 34 x 17 mm)	119465
Glass set T9	Size 9 (340 x 34 x 17 mm)	119462
Glass set T10	Size 10 (370 x 34 x 17 mm)	119456
Glass set T11	Size 11 (400 x 34 x 17 mm)	119455
Glass protection		
Glass protection M2	1x mica shield size 2	501577
Glass protection M3	1x mica shield size 3	501578
Glass protection M4	1x mica shield size 4	501579
Glass protection M5	1x mica shield size 5	501580
Glass protection M6	1x mica shield size 6	501581
Glass protection M7	1x mica shield size 7	501582
Glass protection M8	1x mica shield size 8	501583
Glass protection M9	1x mica shield size 9	501585
Glass protection M10	1x mica shield size 10	501587
Glass protection M11	1x mica shield size 11	501588
Head piece		
Head piece KS1	1x head piece for LGG-E	503765
Head piece KS2	1x head piece for valve model LGV-01, LGV-51, LGV-52, LGV-53	503923
Head piece KS3	1x head piece for valve model LGV-03, LGV-56, LGV-57, LGV-58	503924
Head piece KS4	1x head piece for valve model LGV-18 (handwheel)	503619
Head piece KS5	1x head piece for valve model LGV-18 (lever, ball)	503620
Head piece KS6	1x head piece for valve model LGV-19 (handwheel)	503621
Head piece KS7	1x head piece for valve model LGV-19 (lever, ball)	503622

Ordering information

To order the described product the order number (if available) is sufficient.

Alternatively:

Model / Version / Process connection / Centre-to-centre distance / Valve type / Valve head arrangement / Process specifications (operating temperature and pressure) / Options

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WIKA Alexander Wiegand SE & Co. KG Alexander-Wiegand-Straße 30 63911 Klingenberg/Germany Tel. +49 9372 132-0 Fax +49 9372 132-406 info@wika.de www.wika.de