



INDUSTRIAL INSTRUMENT MANUFACTURE

PT INDIRA MITRA BOILER

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FACTORY:



Magnetic Level Indicator

The magnetic level gauge consists of Red/white or Yellow/Black magnetic rollers equipped with small magnets which are rotated one after another at an angle of 180° by the magnetic field of the permanent magnet put inside the float. The rollers change from white to red on rising level and red to white on falling level.

This level gauge can be side mounted or top mounted. when assemble with level transmitter outside the chamber, it can output 4~20mA, RS485, Hart. can assembled with several reed tube switches on needs for control purposes. When match with our secondary indicator, can realize remote indicating.



Model Selection Table

B-UHC-	C	Side mounted;							
	D	Top mounted							
	O	Other							
	Signal	Y	Standard transmitter 4~20mA current signal (Resolution: 20mm/10mm/5mm);						
		H	Hart;						
		A	Switch and number;						
		L	transmitter with LCD						
		NA	No signal output						
	Indicator type	O	Aluminium indicator holder						
		S	Sealed bargraph with stainless steel holder (water tight)						
		L	Red/Green flaps with LED lamp						
	Structure	S	Steam tracing						
		E	Electric heating						
		F	Defrost						
		NA	Ordinary type						
	Valve	D	Drain valve or drain plug						
		DV	Drain valve and Vent valve or plug						
		N	No valve						
	Working temperature	A	Ambient temperature (0~60℃)						
		B	-20~90 C						
		M	-20~150℃						
		H	High temperature (<450℃)						
		L	If easy frozen						
	Material	SS304	0Cr18Ni9						
		SS316L	022Cr17Ni12Mo2						
		SS321	0Cr18Ni10Ti						
		PP	PP (Polypropylene), PVC, PVDF						
		PTFE	stainless steel lined with PTFE						
		FRP	Anticorrosive, <80C						
	Explosion-proof	S	Safety environment						
		E	Explosion-proof ExdIIBT4						
		I	intrinsic safetyExibII CT4						
	Measure range		Unit: mm						
	Fluid density		g/cm3						
	working pressure		2.5, 4.0, 6.4, 10MPa						
	Flange size, rate and standard		ANSI		DIN		JIS		
Example: B-UHC-C-YA-O-D-M-SS304-S-500-0.8-1-DIN DN25PN16									

Remark: Manufactured customized is available for this product..



Model	B-UHC-C Side Mounted Magnetic Level Gauge
Measure ranges	100-15000mm
Measure accuracy	±5mm
Working pressure	1.0, 1.6, 2.5, 4.0, 6.4, 10.0, 16MPa
Fluid temperature	-40~450°C
Fluid viscosity	≤14m/s
Fluid density	≥0.45g/cm3
Cage material	304SS, 316SS, PP, PVC or PTFE lining;
Flange	ANSI, JIS OR DIN form



Model	B-HC-C-Y Level gauge with level transmitter
Description	Basis on UHC-C, added level transmitter
C-C	100-15000mm
Working pressure	1.0, 1.6, 2.5, 4.0, 6.4, 10.0, 16MPa
Fluid temperature	-40~450°C
Transmitter's resolution	5mm, 10mm, 20mm select able
transmitter	4-20mA, RS485, Hart, LCD is select-able
Power supply	24VDC, Battery power
Cage material	304SS, 316SS, PP, PVC or PTFE lining;
Remarks	<u>Normally junction box at top. bottom side, inform us.</u>



Model	B-UHC-C-A Magnetic Float Level gauge with Switch
Measure ranges	100-15000mm
Measure accuracy	±5mm
Working pressure	1.0, 1.6, 2.5, 4.0, 6.4, 10.0, 16MPa
Fluid temperature	-40~450°C
Fluid density	≥0.45g/cm3
Cage material	304SS, 316SS, 301SS, PP, PVC or PTFE lining;
Switch types	Normally open (NO), normally close (NC), or SPDT type.

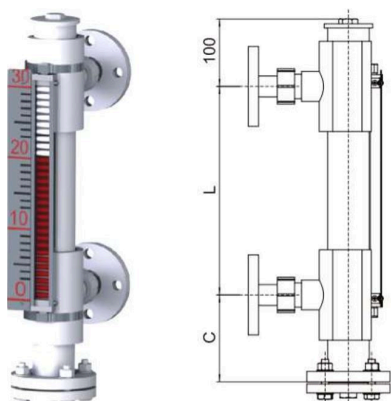


Model	B-UHC-C-YA Level gauge with Switch & transmitter
Measure ranges	100-15000mm
Measure accuracy	±5mm
Working pressure	1.0, 1.6, 2.5, 4.0, 6.4, 10.0, 16MPa
Fluid temperature	-40~450°C
Fluid density	≥0.45g/cm ³
Cage material	304SS, 316SS, 301SS, PP, PVC or PTFE lining;
Transmitter	resolution 3mm (0-10V), or 5mm, 10mm, 20mm
Output	LCD, LED, 4-20mA, Hart, RS485 24VDC
Switch types	Normally open (NO), normally close (NC), or SPDT type.



Model	B-UHC-C-D Top mounted Level Gauge
Measure ranges	500-3000mm
Accuracy	±5mm
Working pressure	1.0, 1.6, 2.5MPa
Fluid temperature	-40~450°C
Fluid density	≥0.5g/cm ³
Cage material	304SS, 316SS, PP, PVC
can add level switch	Normally open (NO), normally close (NC), or SPDT.
Transmitter	Resolution: 3mm (0-10V), 5mm, 10mm, 20mm; 24VDC

Model: B-UHC-C-P Plastic Material Float Level Gauge



Material	PP	PVC	PVDF
Chamber size	63*3/5.2	63*3	63*3
Working pressure	-0.1MPa~0.5MPa		
Fluid temperature	-20~+80°C	-20~+60°C	-20~200°C
C-C distance	200-5000mm		
Fluid viscosity	≤0.02 Pa.S		
Options	1. can add level switch 2. Transmitter		

Magnetic level gauge without scale

Indicator color: Red/white; Black/Yellow

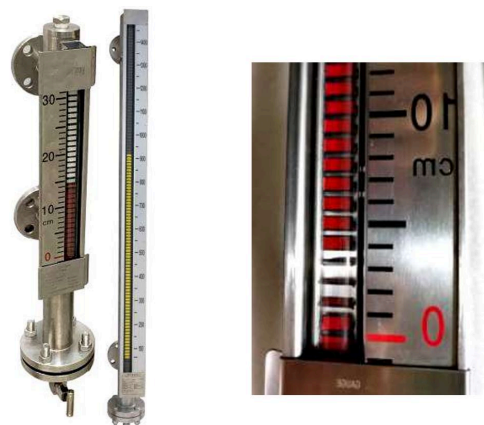
Indicator shell material: PC

Roller material: Nylon

Suitable temperature: 130°C



B-UHC-C-ZHK Vacuum Sealed Magnetic Level Indicator



Indicator type	Stainless Steel Sealed Type Indicator
Measure ranges	100-15000ms
Working pressure	1.0, 1.6, 2.5, 4.0, 6.4, 10.0, 16MPa
Fluid temperature	-20~+200°C, -20~+350°C
Fluid density	≥0.5g/cm ³
cage material	304SS, 316SS, PP, PVC
Fluid viscosity	≤14m/s
Options	1. Can add level switch 2. Transmitter 3. Indicator color: a.Red/white, b.Yellow/Black

B-UHC-FPTFE Lining Float Level Gauge

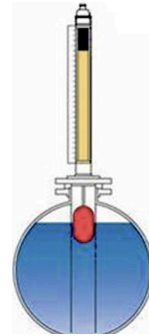
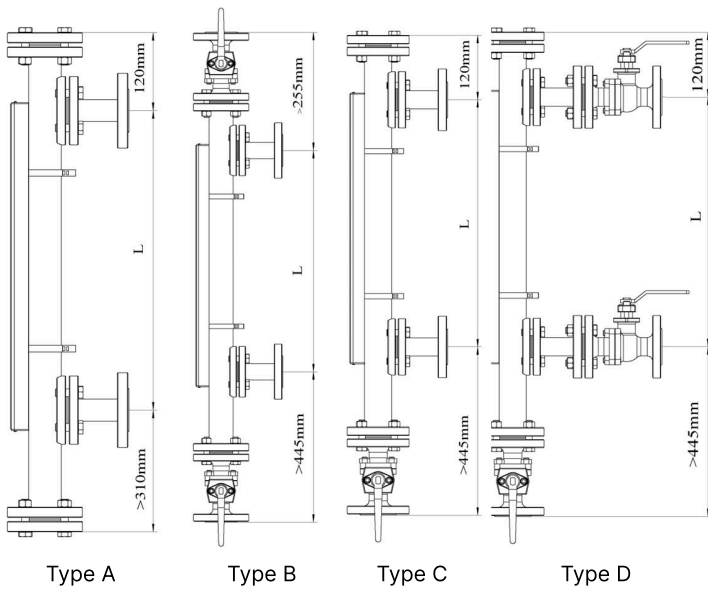


Material	Stainless steel lined with PTFE
Chamber size	φ55*(2mm+PTFE 2.5mm)
Working pressure	-0.1MPa~2.5MPa
Fluid temperature	-20~+200°C
C-C distance	200-5000mm
Fluid viscosity	≤0.02 Pa.S
Connection	Flange DN25, DN50
Options	1. Can add level switch 2. Transmitter

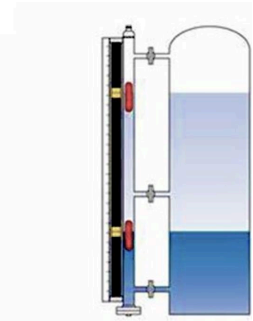
B-UHC-C-E Magnetic Level Gauge with LED Indicator



Material	Stainless steel
Working pressure	-0.1MPa~2.5MPa
Fluid temperature	<350°C
C-C distance	200-5000mm
Power supply	220 VAC
Connection	Flange DN25, DN50
Options	Can add PTFE lining ball valves as bellow types:

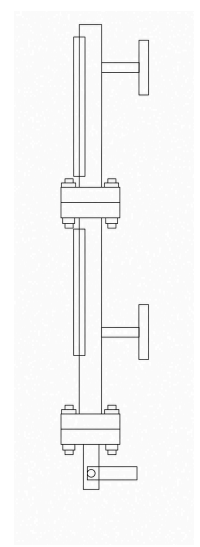
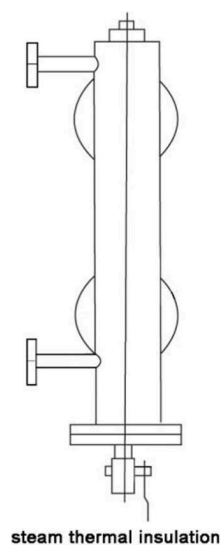
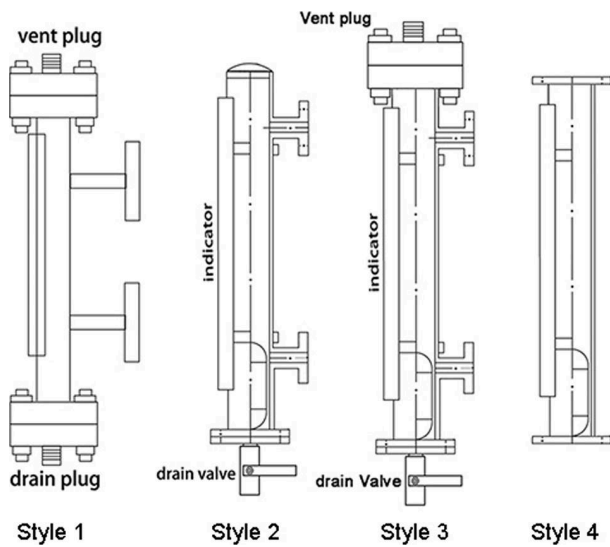
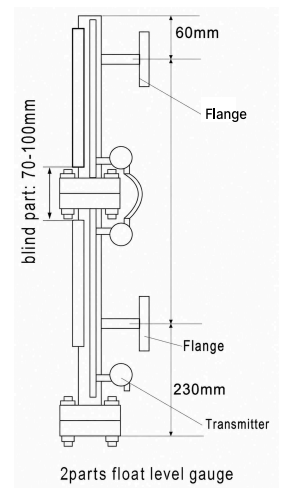
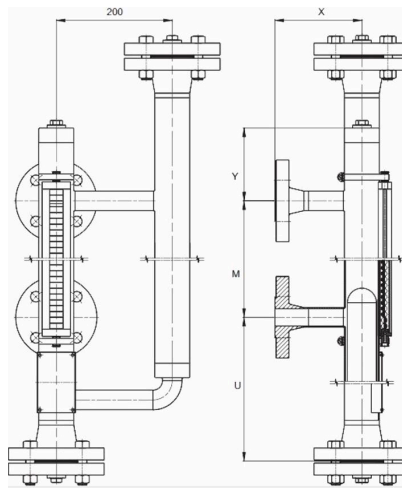
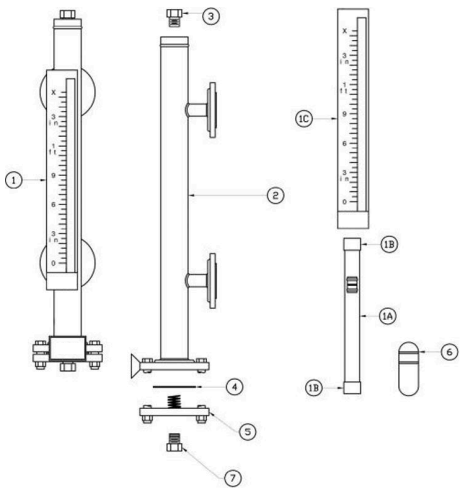


Style H Tank or Sump Level Indication



Style I Dual Indication for total interface level detection

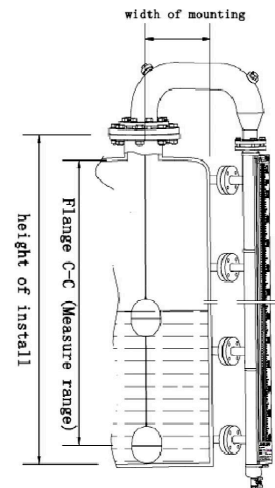
Typical structure



B-UHC-V Side-top mounted high viscous liquid Float & board level gauge for Pressure Vessel

B-UHC-V side-top mounted high viscous liquid Float level gauge is suitable for heavy oil, crude oil, resin of high viscosity liquid level detection.

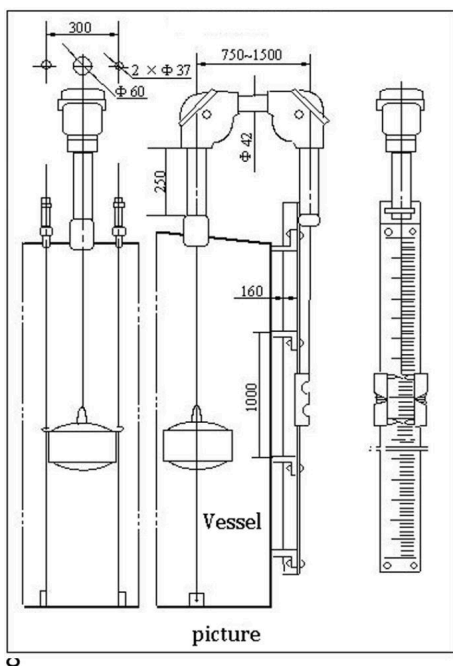
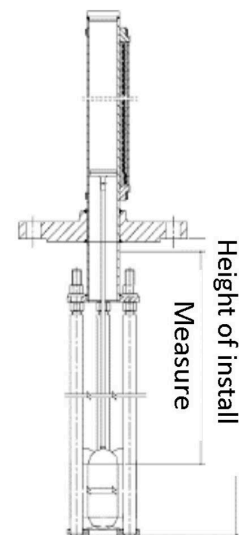
- C-C: 500 ~ 10000 mm, other length can be section made.
- Chamber tube material: 304SS; 316SS; 316L
- Working pressure: 0 ~ 1.6 MPa
- Medium density: 0.65 ~ 2.0 g/cm³
- Medium viscosity: 1.5 Pa s. or less
- Level Transmitter: output 4-20mA and switch opinion.



Top mounted vaporizing fluid float level gauge

B-UHC-T Top mounted vaporizing fluid special using magnetic float level gauge is suitable for easy vaporization liquid in pressure vessels, especially for buried tank of such as liquefied petroleum gas, methane. It contains **three pure titanium floats** and unique guide rail structure, is widely used in **LPG stations**.

- Measuring range: 300~3000 mm.
- Lead tube material: stainless steel 304SS; 316SS;
- Float material: Titanium
- Working pressure: -0.1 ~ 4 MPa
- Working temperature: -80 ~ 80 °C
- Medium density: 0.4 ~ 1.2g/cm³
- Medium viscosity: 0.4 Pa s.



Float & Board Level Gauge B-UHC-B

It works by a float ball floating on the liquid, stainless steel rope and magnetic flappers moves with liquid level up and down.

Technique Information:

Measure range: < 25m

Indicator error: < 20mm

Working pressure: ambient

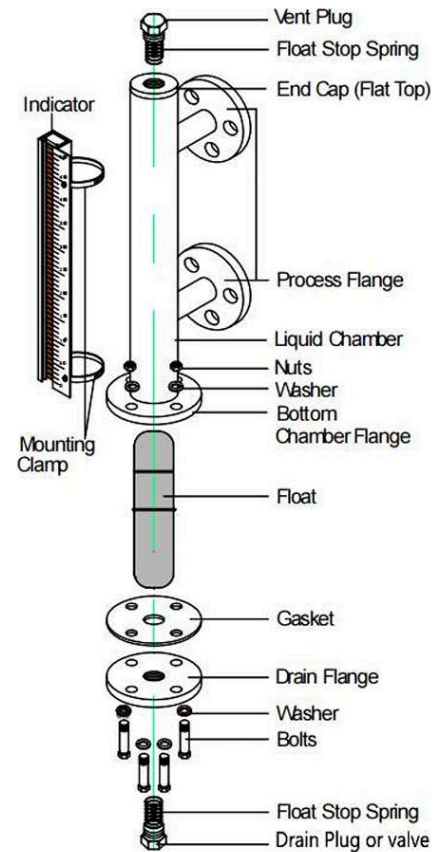
Fluid temperature: < 400 C

Medium density: > 0.6g/cm³

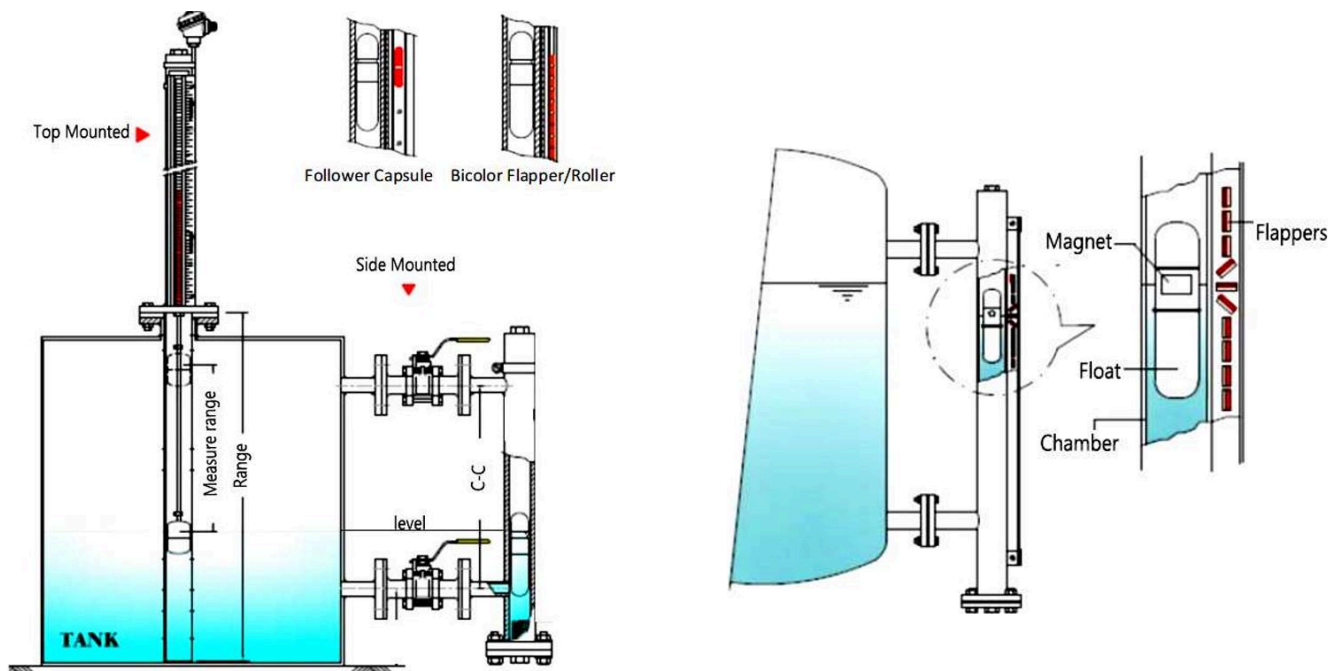
Connection method: flange or threaded

Construction & Working:

- It consists of a liquid chamber housing a float with an externally clamped non-invasive indicator. The liquid chamber is provided with two process connections for mounting, along with a vent at the top and a drain at the bottom. A scale runs parallel along the length of the indicator to indicate liquid level in desired unit.
- The float contains a specially designed magnetic system to provide positive coupling with follower capsule or bicolor flappers fitted in the indicator. The float follows the rise & fall of liquid level and the follower capsule / bicolor flappers track the float position to provide level indication. Besides, supplementary devices like a magnetic switch and or transmitter can be clamped on the chamber to form a complete instrument package for level control & monitoring.
- Connection versatility - A wide variety of connections are available: weld neck flanges, lap-joint flanges, weldolets, threadolets, sockolets, NPT threads and other plumbing options.



Installation:



Top Mounted Magnetic Float Level Transmitter



1) B-UQK-B Liquid level transmitter.

B-UQK-B type liquid level transmitter is used for level test and remote control. There is chain of resistance, the transmitter convert the resistance signal to 4-20 mA, and add secondary can set the switch position freely. Type of field LED display + "4-20mA" indicator the true level continuously, and also connect with PLC/DCS or Recorders. The 4~20mA signal can transmit in the scope of 0~3Km.

Select the floaters types according to the working temperature, pressure, specific gravity and acid-base properties.

Temperature suitable: PVC material $\leq 80^{\circ}\text{C}$; PVDF $\leq 120^{\circ}\text{C}$; SUS304/316L $\leq 120^{\circ}\text{C}$

Pressure: Plastic series floater $\leq 5\text{kg/cm}$. SUS304/316L $\leq 40\text{kg/cm}$.

Acid-base properties: polypropylene (PP) is suitable for strong acid and alkali environment; if strong acid and alkali environment temperature is higher than 80°C , should choose PVDF material.

Medium like Alcohol, oils, etc.: Recommend to use stainless steel material, for the food industry need choose sanitary level material SUS316L.

2) Customer order table

Item of B-UQK-B	Technical parameter	Your choice
Measure range	200-8000mm any length on order	
Indicator & Output	A. 0~4k Ω ; B. 4~20mA 24VDC 2-wire; C. Hart, LCD D. Battery power with field display	
Resolution	A. 20mm; B. 10mm; C. 7mm; D. 5mm	
Fluid Density	$\geq 0.45\text{g/cm}^3$ (tell us your density)	
Fluid temperature	$< 120^{\circ}\text{C}$	
Process pressure	$< 1.6\text{MPa}$ or on order	
Process connection	Flange, Threaded, or assemble external of level gauge	
Material	SS304, SS316, PTFE	
Leading tube OD	$\Phi 19\text{mm}$, $\Phi 8\text{mm}$	
Floater ball OD size		

Glass Plate Level Gauge

The Reflex Liquid Level Gauge

The is used to see the level of the liquid in a vessel or tank. The gauge glass has three V-shaped grooves. The prism effect makes the gaseous phase look white, whereas in the liquid phase, the diffused reflection disappears making it look quite dark. This means that the liquid level can be seen clearly.

See-Thru (Transparent) Liquid Level Gauge

This unit is used to see the level, color, or clarity of the liquid in a vessel or tank. This gauge uses two layers of gauge glass, and is constructed so that users can see through to the opposite side. The gauge can be protected with mica or fluorine resin which prevents the alkaline corrosion of the glass. The gauge also uses a lighting system to make it easier for users to measure the liquid level, and its structure is more resistant to pressure than the reflex liquid level gauge.

Pictures and description of different models

B-TBS-F



B-TBS-A



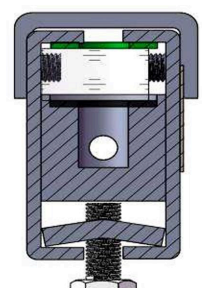
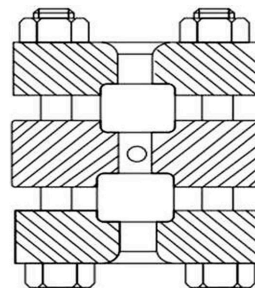
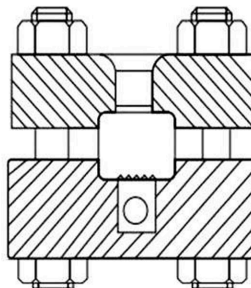
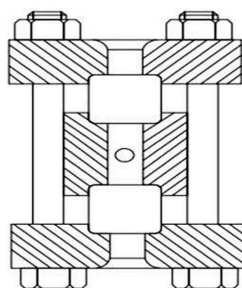
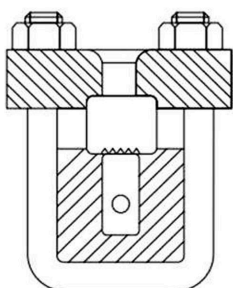
B-UI-CV-F-HF



B-UI-CV-F-HT



B-RFL-40C



Glass Size

Borosilicate



Micasheet+Alumina-silicate glass



Unit:mm

No.	B1	A1	B2	A2	B3	A3	B4	A4	B5	A5	B6	A6	B7	A7	B8	A8	B9	A9
Length	115		140		165		190		220		250		280		320		340	
Width	34	30	34	30	34	30	34	30	34	30	34	30	34	30	34	30	34	30
Thickness	17		17		17		17		17		17		17		17		17	

Main technical parameters

Model	B-TBS-F	B-TBS-A	B-UI-CV-F-HF	B-UI-CV-F-HT	B-RFL-40C
Type	Reflex	Transparent	High pressure reflex	High pressure Transparent	90 degree Quick open/close
C-C (mm)	300-3600				285-2590
Visible Length (mm)	95-3360				141-2433
Gauge Material	CS, SS304, SS316L, Ti, etc				Cast steel
Glass Size	A1-A9, B1-B9				A1-A9
Glass Material	Borosilicate; Alumina-silicate				
Gasket Type	Graphite composite gasket; non-Asbestos gasket; Mica seal components				
Suitable temperature	≤450°C				
Working pressure (Bar)	40 (Groove glass) 100 (Plate glass)	100 (Plate glass)	40 (Groove glass) 160 (Plate glass)	160 (Plate glass)	40 (Groove glass)

Gauge Valve Main Technical Parameters



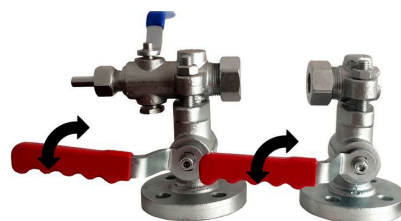
B-UI-CV-F offset valve CS



B-UI-CV-F offset valve SS



B-UI-CV-S straight



B-RFL-40 Quick close

Suitable tube diameter: $\Phi 18\text{mm}$, $\Phi 16\text{mm}$

Model	B-UI-CV-F	B-UI-CV-S	B-RFL-40
Type	Offset Valve 360°turn	Straight Gauge Valve 360°turn	90° Quick Open/Close Gauge Valve
Valve body	Forging steel	CS, SS304, SS316L, Ti	Cast steel
Valve rod Material	2Cr13/SS316L		
Sealing Material	Graphite		
Working temperature	$\leq 450^{\circ}\text{C}$		
Working pressure (Bar)	40 (Groove glass) 160 (Plate glass)	40 (Groove glass) 100 (Plate glass)	40 (Groove glass)
Connection mode	Flange; Thread; welding		Flange: DN15 DN20 DN25, 3/4" 1" 1-1/4"
Connection standard	ANSI, DIN, GB, JIS; NPT, BSPT, G, ZG;		ANSI, DIN, GB, JIS;
Apply to	B-TBS-F / B-TBS-A / B-TBS-HR / B-TBS-HT / B-RFL-40C		B-TBS-F / B-TBS-A / B-RFL-40C

Brass Gauge Valve for Glass Tube

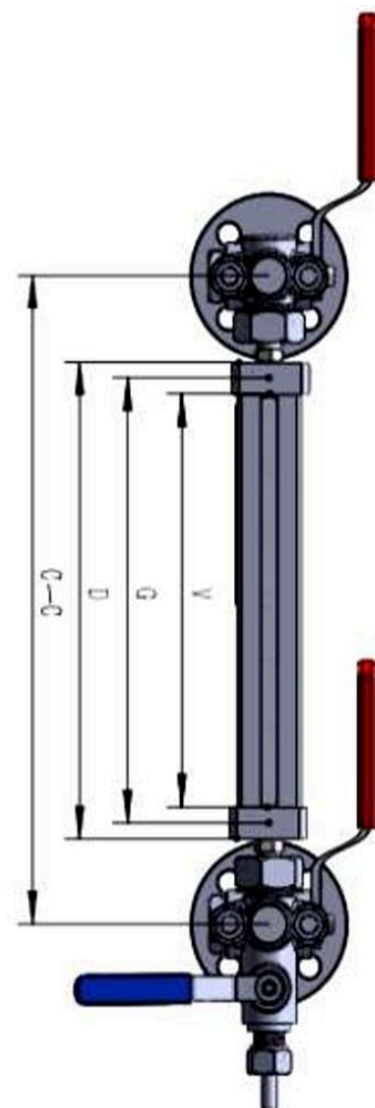
		
1/2" BSP suitable for glass tube OD15mm 3/4" BSP suitable for glass tube OD18mm Net weight: 2.1 kg	1/2" BSP suitable for glass tube OD15mm, weight: 520g/set Size: 3/4" BSP suitable for glass tube OD15mm, weight: 550g/set	G1/2" tubesize: OD13mm 270g/set G3/4" tubesize: OD18mm 285g/set

Model: B-RFL-40FC Reflex Level Gauge

Pressure	<4MPa	Temperature	<250C, <450C
Material	Carbon Steel	Flange	DN15 DN20 DN25, 3/4" 1" 1-1/4"



Model	Min C-C	Body D	Visible Length V (+2/0)	Glass Length G	Section	Blind Part
11	235	128	91	115	1	144
12	260	153	116	140	1	144
13	285	178	141	165	1	144
14	310	203	166	190	1	144
15	340	233	196	220	1	144
16	370	263	226	250	1	144
17	400	293	256	280	1	144
18	440	333	296	320	1	144
19	460	353	313	340	1	147
24	515	406	367	190	2	148
25	575	466	427	220	2	148
26	635	526	489	250	2	146
27	695	586	549	280	2	146
28	775	666	628	320	2	147
29	815	706	668	340	2	147
36	900	789	751	250	3	149
37	990	879	841	280	3	149
38	1110	999	961	320	3	149
39	1170	1059	1021	340	3	149
47	1285	1172	1134	280	4	151
48	1445	1332	1294	320	4	151
49	1525	1412	1374	340	4	151
57	1580	1465	1427	280	5	153
58	1780	1665	1627	320	5	153
59	1880	1765	1727	340	5	153
68	2115	1998	1960	320	6	155
69	2235	2118	2080	340	6	155
79	2590	2471	2433	340	7	157



Model: B-RFL-40FC Reflex Level Gauge

Pressure	<4MPa	Temperature	<250C, <450C
Material	Carbon Steel	Flange	DN15 DN20 DN25, 3/4" 1" 1-1/4"



Model	Min C-C	Body D	Visible Length V (+2/0)	Glass Length G	Section	Blind Part
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17	400	293	256	280	1	144
18	440	333	296	320	1	144
19	460	353	313	340	1	147
24	515	406	367	190	2	148
25	575	466	427	220	2	148
26	635	526	489	250	2	146
27	695	586	549	280	2	146
28	775	666	628	320	2	147
29	815	706	668	340	2	147
36	900	789	751	250	3	149
37	990	879	841	280	3	149
38	1110	999	961	320	3	149
39	1170	1059	1021	340	3	149
47	1285	1172	1134	280	4	151
48	1445	1332	1294	320	4	151
49	1525	1412	1374	340	4	151
57	1580	1465	1427	280	5	153
58	1780	1665	1627	320	5	153
59	1880	1765	1727	340	5	153
68	2115	1998	1960	320	6	155
69	2235	2118	2080	340	6	155
79	2590	2471	2433	340	7	157

Model: B-RFL-40HFC Reflex Level Gauge

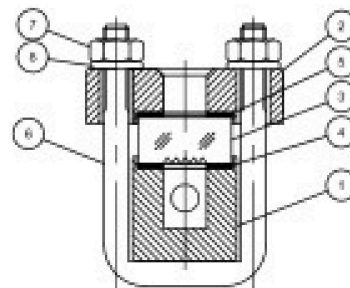
Pressure	<4MPa	Temperature	<250C, <450C
Material	Carbon Steel	Flange	DN15 DN20 DN25, 3/4" 1" 1-1/4"



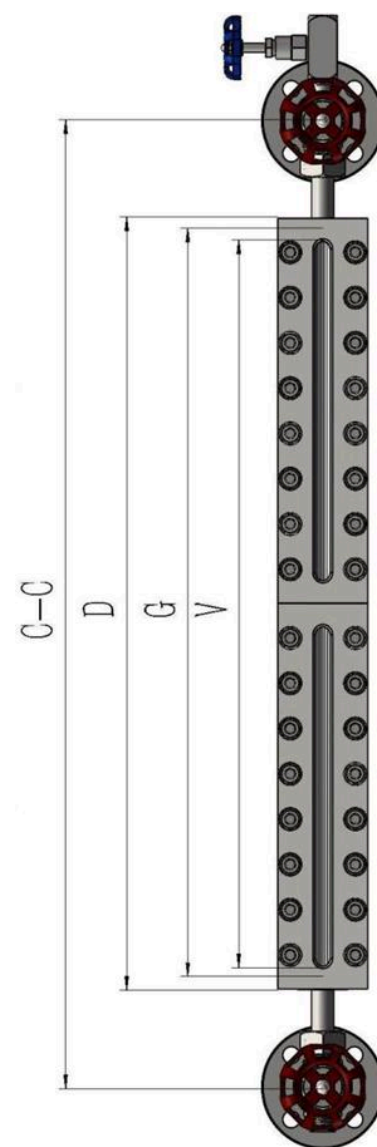
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16	370	263	226	250	1	144
17	400	293	256	280	1	144
18	440	333	296	320	1	144
19	460	353	313	340	1	147
24	515	406	367	190	2	148
25	575	466	427	220	2	148
26	635	526	489	250	2	146
27	695	586	549	280	2	146
28	775	666	628	320	2	147
29	815	706	668	340	2	147
36	900	789	751	250	3	149
37	990	879	841	280	3	149
38	1110	999	961	320	3	149
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47	1285	1172	1134	280	4	151
48	1445	1332	1294	320	4	151
49	1525	1412	1374	340	4	151
57	1580	1465	1427	280	5	153
58	1780	1665	1627	320	5	153
59	1880	1765	1727	340	5	153
68	2115	1998	1960	320	6	155
69	2235	2118	2080	340	6	155
79	2590	2471	2433	340	7	157

Model: B-TBS-F Reflex Level Gauge

Pressure	<4MPa	Temperature	<250C, <450C
Material	Carbon Steel, Stainless Steel	Flange	DN15 DN20 DN25, DN40, DN50, 3/4", 1", 1-1/4", 1.5", 2"

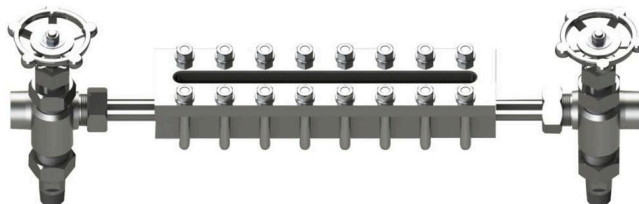


Model	Min C-C	Body D	Visible Length V (+2/0)	Glass Length G	Section	Blind Part
L-1	239	135	95	115	1	144
L-2	264	160	120	140	1	144
L-3	289	185	145	165	1	144
L-4	314	210	170	190	1	144
L-5	344	240	200	220	1	144
L-6	374	270	230	250	1	144
L-7	404	300	260	280	1	144
L-8	444	340	300	320	1	144
L-9	464	360	320	340	1	144
L-10	524	420	380	190	2	144
L-11	584	480	440	220	2	144
L-12	644	540	500	250	2	144
L-13	704	600	560	280	2	144
L-14	784	680	640	320	2	144
L-15	824	720	680	340	2	144
L-16	914	810	770	250	3	144
L-17	1004	900	860	280	3	144
L-18	1124	1020	980	320	3	144
L-19	1184	1080	1040	340	3	144
L-20	1304	1200	1160	280	4	144
L-21	1464	1360	1320	320	4	144
L-22	1544	1440	1400	340	4	144
L-23	1604	1500	1460	280	5	144
L-24	1804	1700	1660	320	5	144
L-25	1904	1800	1760	340	5	144
L-26	2144	2040	2000	320	6	144
L-27	2264	2160	2120	340	6	144
L-28	2624	2520	2480	340	7	144

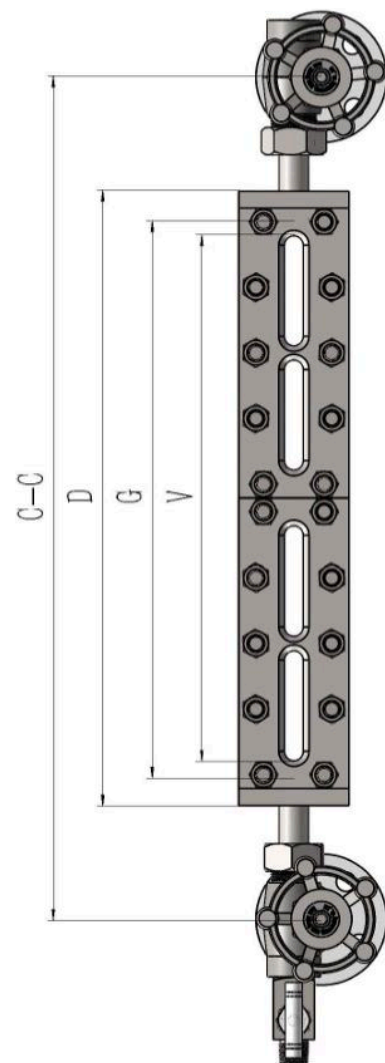


Model: B-UI-CV-F-LF Reflex Level Gauge

Pressure	4MPa, 7MPa, <16MPa	Temperature	<250C, <450C
Material	Carbon Steel, Stainless Steel	Connection	DN15 DN20 DN25, DN40, DN50, 3/4", 1", 1-1/4", 1.5", 2"
Glass	Borosilicate or Al-Si glass	Connection type	Flange, Screw or other



Model	Min C-C	Body D	Visible Length V (+2/0)	Glass Length G	Section	Blind Part
H-1	286	135	90	115	1	196
H-2	311	160	115	140	1	196
H-3	336	185	140	165	1	196
H-4	361	210	165	190	1	196
H-5	391	240	195	220	1	196
H-6	421	270	225	250	1	196
H-7	451	300	255	280	1	196
H-8	521	370	325	165	2	196
H-9	571	420	375	190	2	196
H-10	631	480	435	220	2	196
H-11	691	540	495	250	2	196
H-12	751	600	555	280	2	196
H-13	781	630	585	190	3	196
H-14	871	720	675	220	3	196
H-15	961	810	765	250	3	196
H-16	1051	900	855	280	3	196
H-17	1111	960	915	220	4	196
H-18	1231	1080	1035	250	4	196
H-19	1351	1200	1155	280	4	196
H-20	1351	1200	1155	220	5	196
H-21	1501	1350	1305	250	5	196
H-22	1591	1440	1395	220	6	196
H-23	1651	1500	1455	280	5	196
H-24	1771	1620	1575	250	6	196
H-25	1951	1800	1755	280	6	196
H-26	2041	1890	1845	250	7	196
H-27	2251	2100	2055	280	7	196

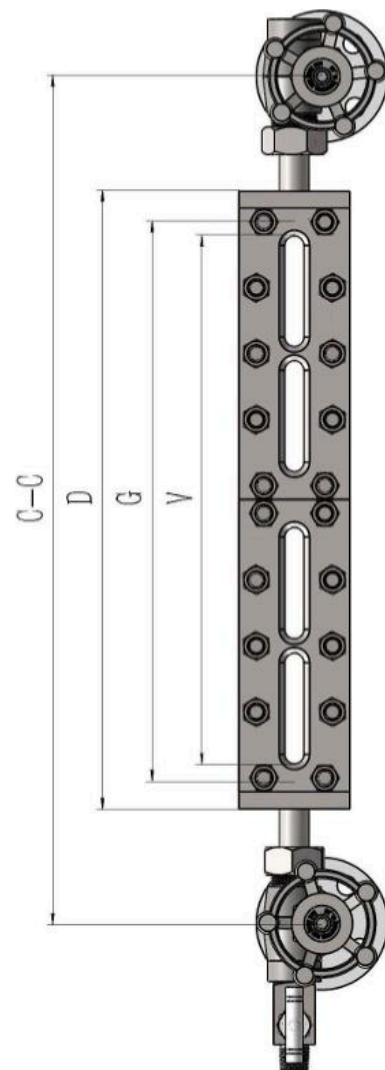


Model: B-UI-CV-F-HF Reflex Level Gauge

Pressure	4MPa, 7MPa, <16MPa	Temperature	<250C, <450C
Material	Carbon Steel, Stainless Steel	Connection	DN15 DN20 DN25, DN40, DN50
Glass	Borosilicate or Al-Si glass	Connection type	Flange, Screw or other

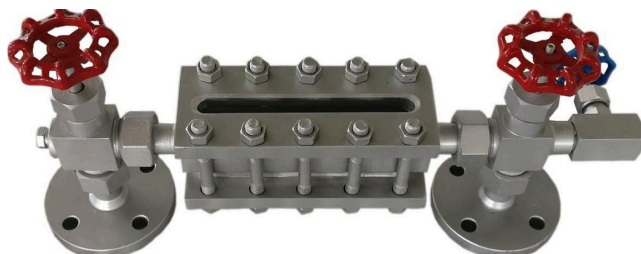


Model	Min C-C	Body D	Visible Length V (+2/0)	Glass Length G	Section	Blind Part
H-1	286	135	90	115	1	196
H-2	311	160	115	140	1	196
H-3	336	185	140	165	1	196
H-4	361	210	165	190	1	196
H-5	391	240	195	220	1	196
H-6	421	270	225	250	1	196
H-7	451	300	255	280	1	196
H-8	521	370	325	165	2	196
H-9	571	420	375	190	2	196
H-10	631	480	435	220	2	196
H-11	691	540	495	250	2	196
H-12	751	600	555	280	2	196
H-13	781	630	585	190	3	196
H-14	871	720	675	220	3	196
H-15	961	810	765	250	3	196
H-16	1051	900	855	280	3	196
H-17	1111	960	915	220	4	196
H-18	1231	1080	1035	250	4	196
H-19	1351	1200	1155	280	4	196
H-20	1351	1200	1155	220	5	196
H-21	1501	1350	1305	250	5	196
H-22	1591	1440	1395	220	6	196
H-23	1651	1500	1455	280	5	196
H-24	1771	1620	1575	250	6	196
H-25	1951	1800	1755	280	6	196
H-26	2041	1890	1845	250	7	196
H-27	2251	2100	2055	280	7	196

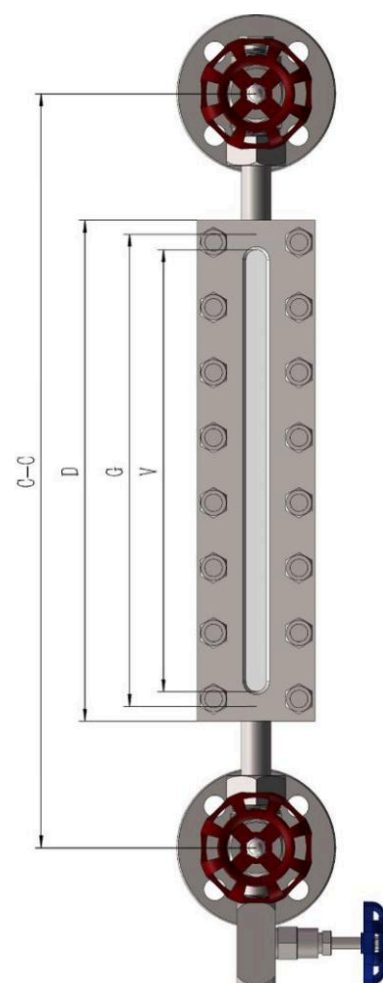


Model: B-TBS-A Reflex Level Gauge

Pressure	<7MPa, <16MPa	Temperature	<250C, <450C
Material	Carbon Steel, Stainless Steel	Flange	DN15 DN20 DN25, DN40, DN50 3/4", 1", 1-1/4", 1.5", 2"



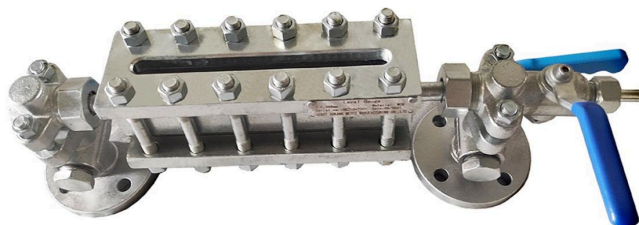
Model	Min C-C	Body D	Visible Length V (+2/0)	Glass Length G	Section	Blind Part
M-1	273	135	95	115	1	178
M-2	298	160	120	140	1	178
M-3	323	185	145	165	1	178
M-4	348	210	170	190	1	178
M-5	378	240	200	220	1	178
M-6	408	270	230	250	1	178
M-7	438	300	260	280	1	178
M-8	478	340	300	320	1	178
M-9	498	360	320	340	1	178
M-10	558	420	380	190	2	178
M-11	618	480	440	220	2	178
M-12	678	540	500	250	2	178
M-13	738	600	560	280	2	178
M-14	818	680	640	320	2	178
M-15	858	720	680	340	2	178
M-16	948	810	770	250	3	178
M-17	1038	900	860	280	3	178
M-18	1158	1020	980	320	3	178
M-19	1218	1080	1040	340	3	178
M-20	1338	1200	1160	280	4	178
M-21	1498	1360	1320	320	4	178
M-22	1578	1440	1400	340	4	178
M-23	1638	1500	1460	280	5	178
M-24	1838	1700	1660	320	5	178
M-25	1938	1800	1760	340	5	178
M-26	2178	2040	2000	320	6	178
M-27	2298	2160	2120	340	6	178
M-28	2658	2520	2480	340	7	178



Welcome to contact us for other size.

Model: B-RFL-40AC Transparent Level Gauge

Pressure	<4MPa	Temperature	<250C, <450C
Material	Carbon Steel	Flange	DN15 DN20 DN25, 3/4" 1" 1-1/4"

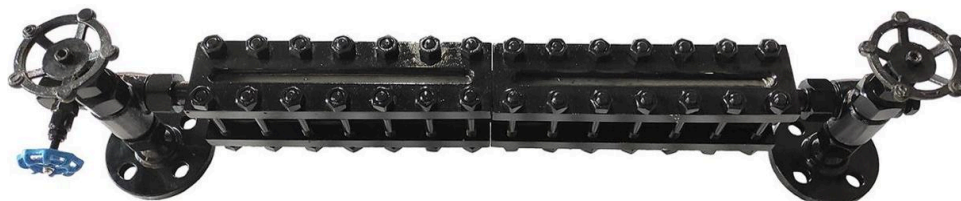


Model	Min C-C	Body D	Visible Length V (+2/0)	Glass Length G	Section	Blind Part
11	235	128	91	115	1	144
12	260	153	116	140	1	144
13	285	178	141	165	1	144
14	310	203	166	190	1	144
15	340	233	196	220	1	144
16	370	263	226	250	1	144
17	400	293	256	280	1	144
18	440	333	296	320	1	144
19	460	353	313	340	1	147
24	515	406	367	190	2	148
25	575	466	427	220	2	148
26	635	526	489	250	2	146
27	695	586	549	280	2	146
28	775	666	628	320	2	147
29	815	706	668	340	2	147
36	900	789	751	250	3	149
37	990	879	841	280	3	149
38	1110	999	961	320	3	149
39	1170	1059	1021	340	3	149
47	1285	1172	1134	280	4	151
48	1445	1332	1294	320	4	151
49	1525	1412	1374	340	4	151
57	1580	1465	1427	280	5	153
58	1780	1665	1627	320	5	153
59	1880	1765	1727	340	5	153
68	2115	1998	1960	320	6	155
69	2235	2118	2080	340	6	155
79	2590	2471	2433	340	7	157

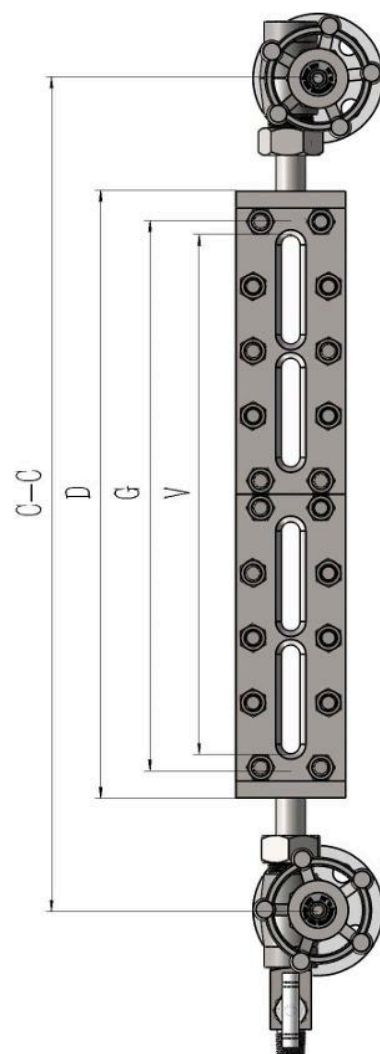
Other size can be design.

Model: B-UI-CV-F-A Transparent Level Gauge

Pressure	<16MPa	Temperature	<250 C, <450 C
Material	Forged steel	Flange	DN15, DN20, DN25, DN40, DN50, 3/4", 1", 1-1/4", 1.5", 2"

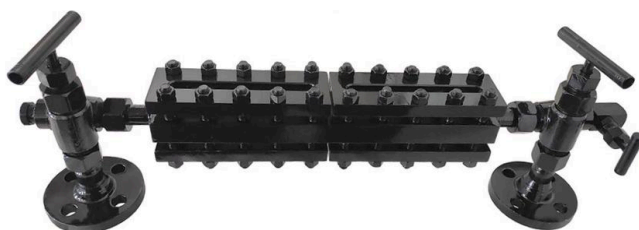


Model	Min C-C	Body D	Visible Length V (+2/0)	Glass Length G	Section	Blind Part
H-1	286	135	90	115	1	196
H-2	311	160	115	140	1	196
H-3	336	185	140	165	1	196
H-4	361	210	165	190	1	196
H-5	391	240	195	220	1	196
H-6	421	270	225	250	1	196
H-7	451	300	255	280	1	196
H-8	521	370	325	165	2	196
H-9	571	420	375	190	2	196
H-10	631	480	435	220	2	196
H-11	691	540	495	250	2	196
H-12	751	600	555	280	2	196
H-13	781	630	585	190	3	196
H-14	871	720	675	220	3	196
H-15	961	810	765	250	3	196
H-16	1051	900	855	280	3	196
H-17	1111	960	915	220	4	196
H-18	1231	1080	1035	250	4	196
H-19	1351	1200	1155	280	4	196
H-20	1501	1350	1305	250	5	196
H-21	1651	1500	1455	280	5	196
H-22	1771	1620	1575	250	6	196
H-23	1951	1800	1755	280	6	196
H-24	2041	1890	1845	250	7	196
H-25	2251	2100	2055	280	7	196

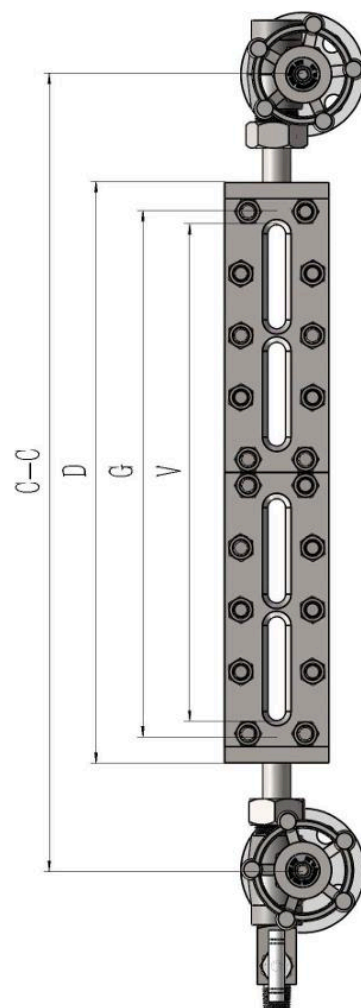


Other size can be design, too.

Model: B-UI-CV-F-HT Transparent Level Gauge			
Pressure	<16MPa	Temperature	<250 C, <450 C
Material	Forged steel	Flange	DN15, DN20, DN25, DN40, DN50, 3/4", 1", 1-1/4", 1.5", 2"



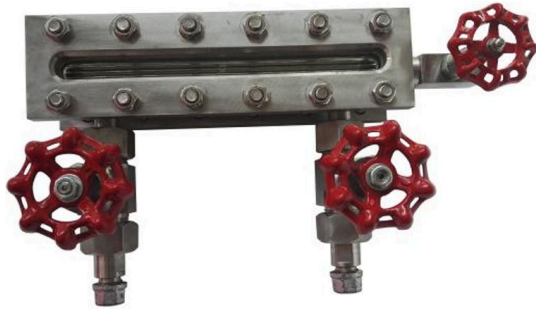
Model	Min C-C	Body D	Visible Length V (+2/0)	Glass Length G	Section	Blind Part
H-1	286	135	90	115	1	196
H-2	311	160	115	140	1	196
H-3	336	185	140	165	1	196
H-4	361	210	165	190	1	196
H-5	391	240	195	220	1	196
H-6	421	270	225	250	1	196
H-7	451	300	255	280	1	196
H-8	521	370	325	165	2	196
H-9	571	420	375	190	2	196
H-10	631	480	435	220	2	196
H-11	691	540	495	250	2	196
H-12	751	600	555	280	2	196
H-13	781	630	585	190	3	196
H-14	871	720	675	220	3	196
H-15	961	810	765	250	3	196
H-16	1051	900	855	280	3	196
H-17	1111	960	915	220	4	196
H-18	1231	1080	1035	250	4	196
H-19	1351	1200	1155	280	4	196
H-20	1351	1200	1155	220	5	196
H-21	1501	1350	1305	250	5	196
H-22	1591	1440	1395	220	6	196
H-23	1651	1500	1455	280	5	196
H-24	1771	1620	1575	250	6	196
H-25	1951	1800	1755	280	6	196
H-26	2041	1890	1845	250	7	196
H-27	2251	2100	2055	280	7	196



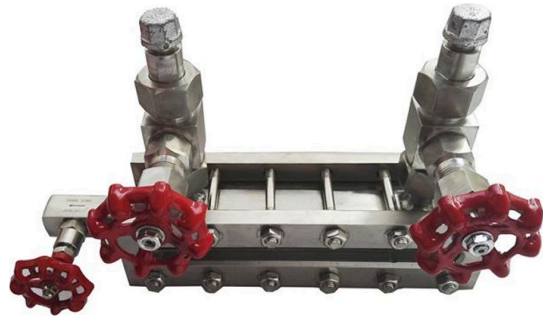
Other size can be produced on order.

Non-blind Type Glass Plate Level Gauge

Pressure	<16MPa	Temperature	<250 C, <450 C
Material	Forged steel	Flange	DN15, DN20, DN25, DN40, DN50, 3/4", 1", 1-1/4", 1.5", 2"



B-TBS-AW Transparent Level Gauge



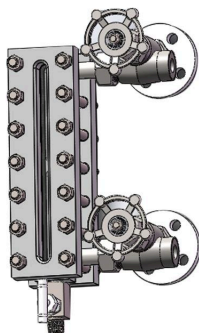
B-TBS-AW Transparent Level Gauge



B-TBS-FWH High Pressure Reflex Level Gauge



B-CVF-TWH High Pressure Wide Chamber Transparent Level Gauge



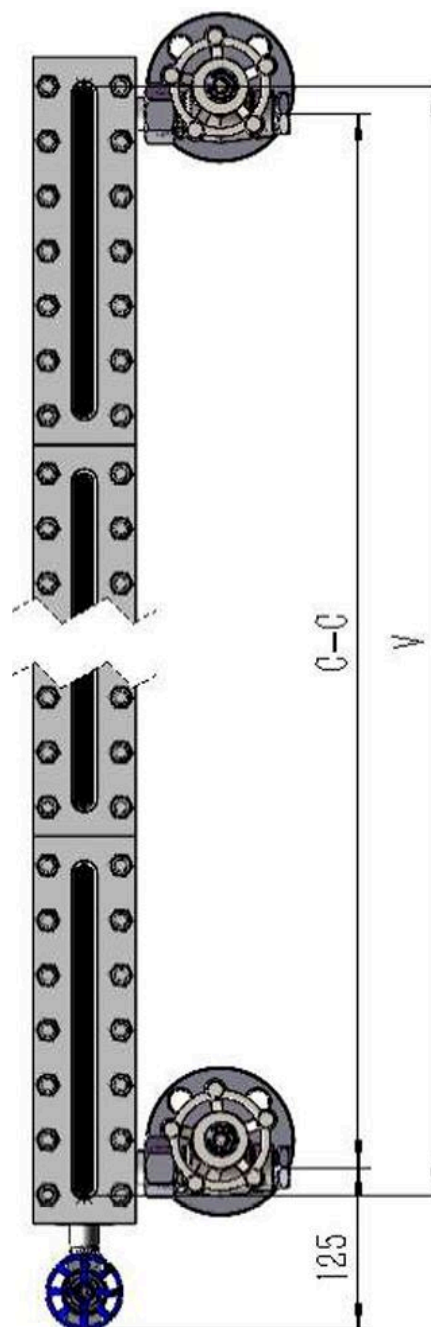
B-CVF-TW Transparent Level Gauge



B-CVF-TW Transparent Level Gauge

Non-blind type glass plate level gauge dimensions (Visible length > C to C distance)

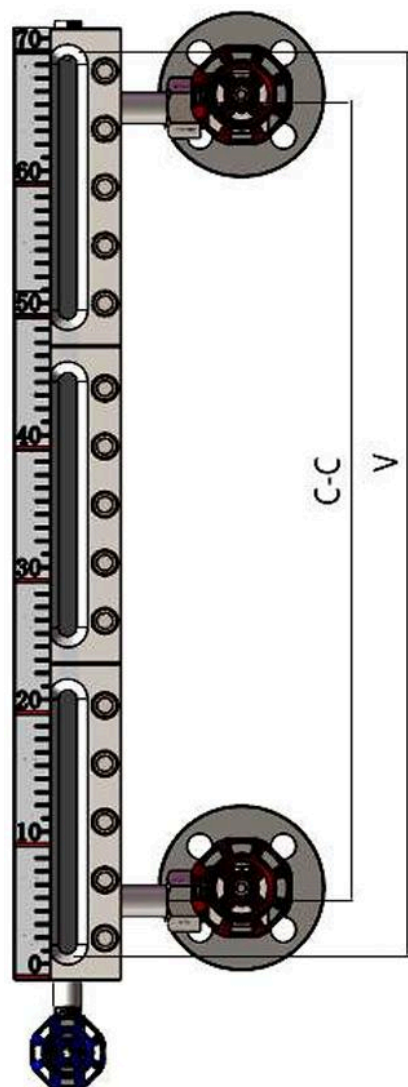
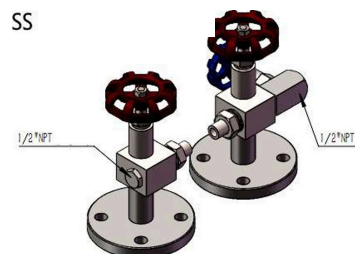
Model	C-C	Visible Length V (+2/0)	Glass Length G	Section
H-1	55	90	115	1
H-2	80	115	140	1
H-3	105	140	165	1
H-4	130	165	190	1
H-5	160	195	220	1
H-6	190	225	250	1
H-7	220	255	280	1
H-8	240	275	300	1
H-9	260	295	320	1
H-10	280	315	340	1
H-11	290	325	165	2
H-12	340	375	190	2
H-13	400	435	220	2
H-14	460	495	250	2
H-15	520	555	280	2
H-16	550	585	190	3
H-17	560	595	300	2
H-18	600	635	320	2
H-19	640	675	340	2
H-20	640	675	220	3
H-21	730	765	250	3
H-22	820	855	280	3
H-23	880	915	220	4
H-24	940	975	320	3
H-25	1000	1035	250	4
H-26	1120	1155	280	4
H-27	1200	1235	300	4
H-28	1270	1305	250	5
H-29	1280	1315	320	4
H-30	1360	1395	340	4
H-31	1420	1455	280	5
H-32	1540	1575	250	6
H-33	1720	1755	280	6
H-34	1810	1845	250	7
H-35	2020	2055	280	7



Non-blind type SS OFFSET COCK (Visible length > C to C distance)

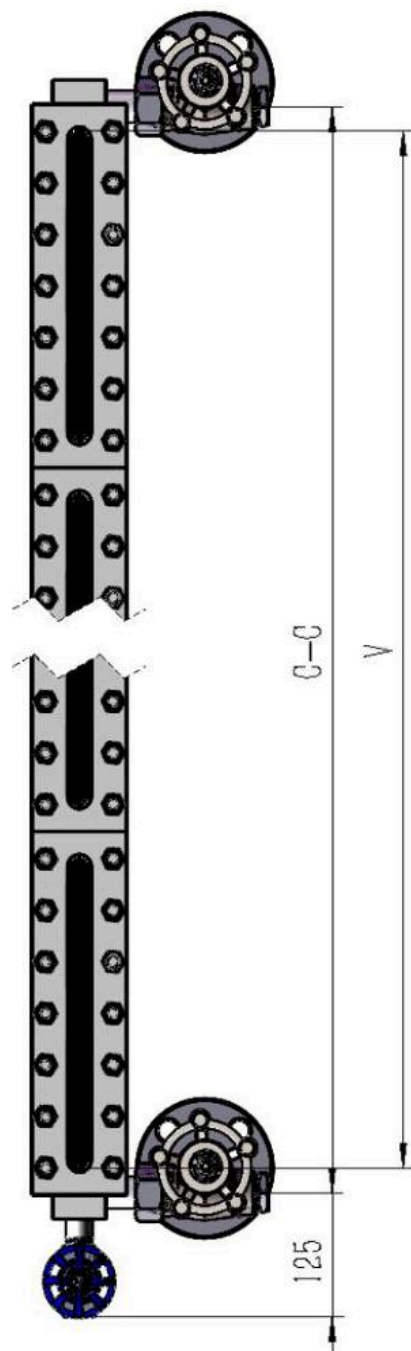
Model	C-C	Visible Length V (+2/0)	Glass Length G	Section
H-1	55	95	115	1
H-2	80	120	140	1
H-3	105	145	165	1
H-4	130	170	190	1
H-5	160	200	220	1
H-6	190	230	250	1
H-7	220	260	280	1
H-8	240	280	300	1
H-9	260	300	320	1
H-10	280	320	340	1
H-11	290	330	165	2
H-12	340	380	190	2
H-13	400	440	220	2
H-14	460	500	250	2
H-15	520	560	280	2
H-16	550	590	190	3
H-17	560	600	300	2
H-18	600	640	320	2
H-19	640	680	340	2
H-20	640	680	220	3
H-21	730	770	250	3
H-22	820	860	280	3
H-23	880	920	220	4
H-24	940	980	320	3
H-25	1000	1040	250	4
H-26	1120	1160	280	4
H-27	1200	1240	300	4
H-28	1270	1310	250	5
H-29	1280	1320	320	4
H-30	1360	1400	340	4
H-31	1420	1460	280	5
H-32	1540	1580	250	6
H-33	1720	1760	280	6
H-34	1810	1850	250	7
H-35	2020	2060	280	7

SS Offset cock valve



Non-blind type glass plate level gauge dimensions (Visible length < C to C distance)

Model	C-C	Visible Length V (+2/0)	Glass Length G	Section
S-1	135	90	115	1
S-2	160	115	140	1
S-3	185	140	165	1
S-4	210	165	190	1
S-5	240	195	220	1
S-6	270	225	250	1
S-7	300	255	280	1
S-8	320	275	300	1
S-9	340	295	320	1
S-10	360	315	340	1
S-11	370	325	165	2
S-12	420	375	190	2
S-13	480	435	220	2
S-14	540	495	250	2
S-15	600	555	280	2
S-16	630	585	190	3
S-17	640	595	300	2
S-18	680	635	320	2
S-19	720	675	340	2
S-20	720	675	220	3
S-21	810	765	250	3
S-22	900	855	280	3
S-23	960	915	220	4
S-24	1020	975	320	3
S-25	1080	1035	250	4
S-26	1200	1155	280	4
S-27	1280	1235	300	4
S-28	1350	1305	250	5
S-29	1360	1315	320	4
S-30	1440	1395	340	4
S-31	1500	1455	280	5
S-32	1620	1575	250	6
S-33	1800	1755	280	6
S-34	1890	1845	250	7
S-35	2100	2055	280	7



Glass Type Level Gauges

- Advantages
- Simple to use and install
- No calibration is required
- 'Seeing is believing', hence reliable and do not depend on electric power
- Provides direct indication of liquid level.
- Tempered/toughened borosilicate glass is acid & alkali resistant and withstand thermal & mechanical shocks
- Suitable for high temperature and pressure applications

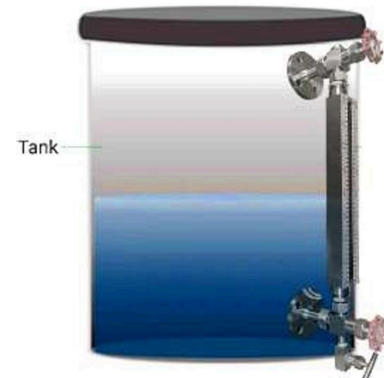


Tubular Level Gauge (G):

- It is most cost effective and reliable level gauge used for direct reading of liquid level in tank under low pressure. It is also used as sight glass or calibration pot to determine pumping flow rate in dosing tanks.
- It consists of heavy wall toughened borosilicate glass tube fitted between two end blocks at top and bottom. The guards, two C channel frames or four tie rods are provided to protect gauge glass and prevent it from accidental blows. Gauge glasses are available in 16 mm, 19 mm or 25 mm OD. For viscous liquids, large diameter glass tube is used.
- The end blocks are fitted with process flange through which gauge can be fitted on the tank. End blocks are provided with integral centre valve/offset needle valves, which permits cleaning of gauge glass and its removal online. Ball check facility is provided to minimise liquid loss in the event of glass breakage.
- Vent valve/plug is provided at top for venting air and drain valve or plug is provided at bottom for draining the liquid in the gauge.
- Tubular level gauges are available in CS, SS304/316, PP, PVDF, PTFE lined SS304 material to suit service liquid. They are suitable for maximum temperature of 200°C and maximum pressure of 10 Kg/ cm².

Level Gauge Installation and Working Installation Method:

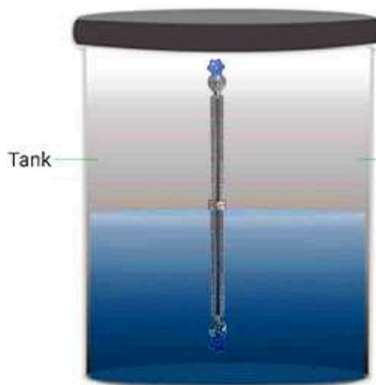
The gauge is mounted parallel to the side of the tank to form close loop by which the level of liquid in the tank is displayed in the level gauge. This liquid level can be observed through a gauge glass. It is recommended to use isolation valve between gauge and tank to isolate the gauge during maintenance.



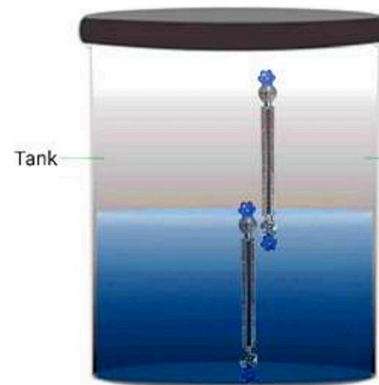
In case of large tanks, gauge can be mounted in coupler arrangement or staggered arrangement.

As shown in attached photo:

Coupler arrangement



Staggered arrangement



B-B69H-16 Mica Sheet Two Color High Pressure Level Gauge

For monitoring the water level of power plant boiler drum of thermal power generating set

- Center to center distance: on order
- Nominal pressure: 16-32MP
- working temperature: saturated steam
- Connection size: OD28×4mm welding or madeon needs
- **Red for air, and green for water**
- Lamp type: LED with power: 220VAC
- A with two line glass window, no interrupt zone for level view.
B With one line glass window, have interrupt zone.



B-B49X (H) -1.6 Economy Type Two Color Glass Level Gauge

Model	B-B49X-25
Name	Bi-color Flat Glass Level Gauge
PN	1.6~4.0 (MPa)
DN	25 (mm)
C-C	300~440 (mm)
Temp.	≤250°C
Material	Carrbon Steel
Lamp	Power AC 36V+/-4V
Nominal Diameter	20-1000mm
Test Pressure	0.6-0.1MPa
Visible Length	165~195mm
Center to Center	300, 330, 350, 400 (mm)
Indicator Color	Red for liquid, green for air
View Angle	20°C
View Distance	<60m



Other similar types:



B-ULB-F Boat Fuel Reflex Glass Level Gauge

structural features

The level gauge is fitted with a steel ball in each of the upper and lower valves. When the glass plate suddenly broke in an accident. Under the action of the inside pressure, the steel ball in the container will automatic seal, this will prevent the injection or continued outward flow of the liquid. And ensured the safety of the person and equipment. A sampling plug is installed at the lower end of the level gauge, which can be open for sampling or maintenance.

Technique Information:

A, reading error: plus or minus 0.5cm

B, measure the height range of liquid level

This level gauge is based on the installation center distance H (the distance between the center line of the upper and lower valves of the level gauge). The scale range on the glass plate is H1. The corresponding relation between H and H1 is shown in bellow table.

Material:

Glass	Gasket	Chamber	Valve	Cover Flange	Flange
Borosilicate	Rubber	Stainless Steel	SS304	SS304	SS304

Suitable working condition:

Fluid: water or fuel oil

Process pressure: <0.3MPa

Process temperature: <80 °C

Dimension:

H (mm)	500	600	800	1000	1200	1400	1600	1820	2000
H1 (mm)	340	440	640	840	1040	1240	1440	1640	1840



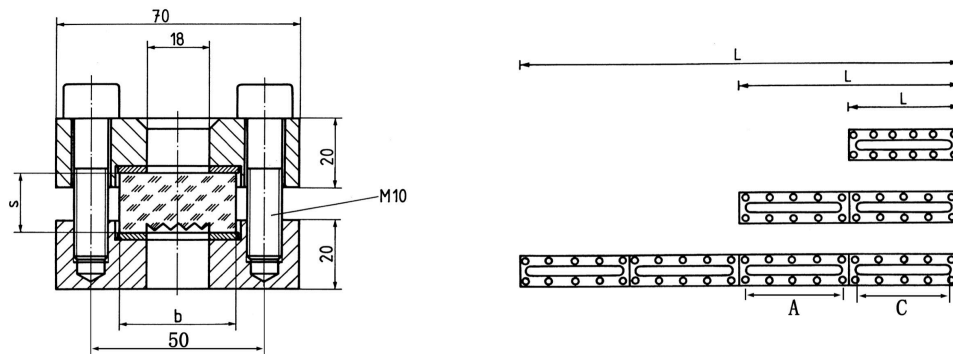
B-HG5-1370-80 Lumiglas Sight Glass Fitting Rectangular

The base flange of the sight glass unit is welded into or onto the vessel wall; the glass plate with gasket either side is firmly held in place by bolted on cover flange.

- 1) Suitable pressure: 0.6MPa, 1.6Mpa or other
- 2) Working temperature: $\leq 250^{\circ}\text{C}$
- 3) Material: Carbon steel, Stainless steel, Titanium or other



Dimensions of Lumiglas sight glass fitting rectangular:



Size		1	2	3	4	5	6	7	8	9	10	11	12	13
Fitting	L	170	195	210	250	300	350	400	440	500	600	700	800	1000
Sight Glass Plate* width*thick = 34*17	Section	1	1	1	1	1	1	1	2	2	2	2	2	4
	Glass	140	165	190	220	280	320	370	190	220	280	320	370	220
	C	124	149	174	204	264	304	354	174*2	204*2	264*2	304*2	354*2	204*4
	Bolt qty	8	10	10	12	14	16	18	20	24	28	32	36	40

Standard is reflex glass. Transparent type glass is optional when needs.

Other Sight Glasses (Special order is acceptable on order)



Typical Glass Sizes of Level Gauge

Items	Type A flat/groove			Type B flat/groove			Type H flat			Type TA 28 flat		
	L	W	H	L	W	H	L	W	H	L	W	H
000				85	34	17						
00				90	34	17						
0				95	34	17						
1	115	30	17	115	34	17	-	-	-	113	27,6	16,8
2	140	30	17	140	34	17	140	34	22	-	-	-
3	165	30	17	165	34	17	165	34	22	163	27,6	16,8
4	190	30	17	190	34	17	190	34	22	188	27,6	16,8
5	220	30	17	220	34	17	220	34	22	218	27,6	16,8
6	250	30	17	250	34	17	250	34	22	248	27,6	16,8
7	280	30	17	280	34	17	280	34	22	278	27,6	16,8
8	320	30	17	320	34	17	320	34	22	318	27,6	16,8
9	340	30	17	340	34	17	340	34	22	338	27,6	16,8
10	370	30	17	370	34	17	-	-	-	-	-	-
11	400	30	17	400	34	17	-	-	-	-	-	-
12	450	30	17	450	34	17	-	-	-	-	-	-
13	500	30	17	500	34	17	-	-	-	-	-	-

Other shapes of glass

Model	Temperature				
Single groove	140°40'33	165°40'33	190°40'33	218°40'33	218°43'34
Double grooved glass	165°34'20	190°34'20	218°34'20		
Double color center grooved sight glass	165°34'22	190°34'22	218°34'22	250°34'22	280°34'22
	320°34'22	340°34'22			
Regular triangular glass	165°44'22	190°44'22	216°44'22		
Partial prism glass	120°50'22	165°50'22	186°50'22	190°50'22	216°50'22
Double color center grooved sight glass	165°34'22	190°34'22	218°34'22	250°34'22	280°34'22
	320°34'22	340°34'22			

Pressure vessel sight glass Fitting

Application:

Weld-on low pressure sightglass fittings for observing the internals of tanks, pressure vessels, silos, gear-trains, separators and pipelines, etc.

Operating Conditions:

OPERATING CONDITIONS		
Temperature: (depending on glass and gasket)	≤150°C	Soda-lime glass (DIN8902)
	≤280°C	Borosilicate glass (DIN7080 or similar)
	≤400°C	Quartz glass
Pressure:	See below table; bigger pressure can be produced on order.	



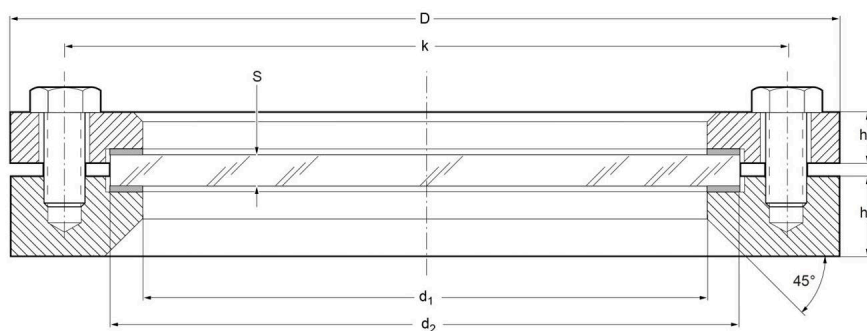
Item Part

MATERIALS		
Flange	Stainless steel 316L or SS304, carbon steel	
Gaskets	Viton/FKM: ≤200°C	Fluoroether rubber (FFKM): -60 to 300°C
	PTFE: <180°C	Reinforced graphite: 600°C
	Silicone rubber: -40 to 220°C	NBR, C4400, EPDM or other
Screws	A4-70	
Special material on request		

The Sight glass can add with wipper, lamp , can be with welding neck.

Other types see to our sight glass catalog.

Installation: welding the base flange (1) into the vessel wall, Place gaskets (2), sight glass disc (3) and cover flange carefully. Then the bolts (5) are progressively tightened, cross tight the bolt several times.



Size		1	2	3	4	5	6	7	8	9	10
Pressure rating	bar	5	5	5	5	5	5	4	4	3	3
Viewing Diameter	d1	50	80	100	125	150	175	200	225	250	300
Sight Glass Disc	d2	60	89	114	150	175	200	225	250	275	325
Toughened Borosilicate Glass	S (TSL)	10	12	12	15	15	15	15	19	19	19
	S (TBS)	10	12	12	20	20	25	25	20	20	30
Flanges	D	100	150	177	202	228	254	280	304	345	405
	h1	16	16	16	16	16	16	16	19	19	19
	h2	25	25	25	25	25	25	25	30	30	30
Bolts	K	78	127	152	178	204	229	256	280	304	366
	No.	4	4	4	8	8	8	8	8	8	8
	Size	M12	M12	M12	M12	M12	M12	M12	M12	M12	M12
	Length	30	30	30	35	35/45	35/45	35/45	40/45	40/45	45/55

Dimensions for Visilume Standard Sightglass Fitting with Wiper Assembly

Size		1	2	3	4	5	6	7	8	9	10
Pressure rating	bar	N/A	5	5	5	5	5	3	3	2	2
Viewing Diameter	d1	50	80	100	125	150	175	200	225	250	300
Sight Glass Disc	d2	N/A	89	114	150	175	200	225	250	275	325
Toughened Borosilicate Glass	S (TSL)	N/A	12	12	15	15	15	15	15	15	15
	S (TBS)	N/A	12	12	15	20	20	15	15	20	15

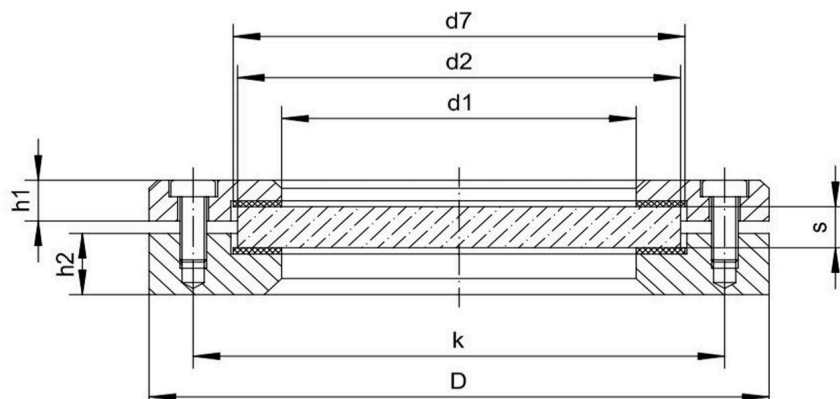
TBS-Toughened Borosilicate / TSL-Toughened Sodalime

Ordering Information

Fittings: Viewing diameter

Material: Base (welding) flange, bolts, cover flange, glass disc, gaskets.

Vessel Sight Glass fitting for open tank



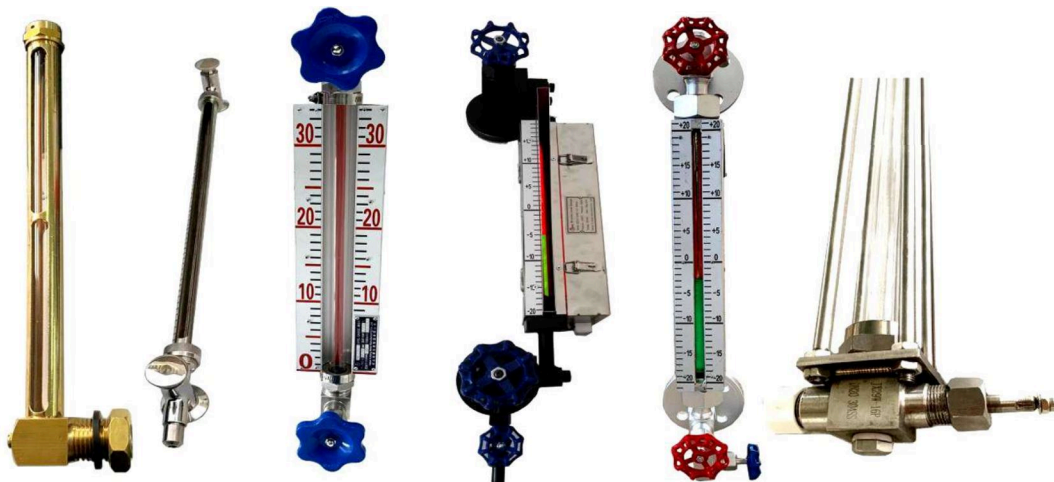
Dimension

Size		1	2	3	4	5	6	7
Nominal Bore	DN	50	80	100	125	150	200	300
Viewing Diameter	d1	80	100	125	150	175	225	300
Sight Glass Disc	d2	100	125	150	175	200	250	325
	s	10	10	10	10	10	10	15
Flanges	D	140	165	190	215	240	290	370
	k	120	145	170	195	220	270	345
	h1	10	10	10	10	10	10	15
	h2	15	15	15	15	15	15	20
Fastening Bolts	no.	4	8	8	8	8	8	12
	Size	M6	M6	M6	M6	M6	M6	M8
Gaskets (side with product contact and atmospheric side)	d1	80	100	125	150	175	225	300
	d7	102	127	152	177	202	252	327

Order data:

- Sight glass fitting (DIN) nd construction
- Nominal Diameter (DN)/Nominal Pressure (PN)
- Material: bolts, glass disc, gaskets

Glass Tubular Level Gauge



Model Selection of Glass Tubular Level Gauge					
Model No.	Pressure	Temperature	Chamber Material	Glass Material	C-C Distance
Pressure		1.0MPa			
		2.0MPa			
	P4	4.0MPa			
	P6	6.4MPa			
	P10	10.0MPa			
Temperature		T1	<60°C		
		T2	<100°C		
		T3	<180°C		
		T4	<450°C		
		T5	<600°C		
Body Material			CS	Carbon steel	
			304	Stainless steel 304	
			316	Stainless steel 316	
			PVC	PVC anticorrosive plastic	
			PP	Valve, flange PP anticorrosive plastic	
			PTFE	Stainless steel lining PTFE	
Size			B	Borosilicate Glass Tube <100°C, <1MPa	
			P	Transparent PVC, PP anticorrosive tube <60°C	
			F	Transparent Soft PTFE anticorrosive tube <180°C	
			Q	Quartz glass tube a.<450°C; b.<600°C, <10MPa	
Flange Size			DN15	DN20	DN25 DN40 DN50
Center to Center Distance					(mm)

B-UGS-A (B-GZS-A) Bi-color Quartz Glass Tube Liquid Level Gauge

This gauge is consist of gauge valve, red/green glass sheet, V shape glass tube, chamber and scale plate.

- 1) Measure ranges: 300~3200mm
- 2) Glass tube size: OD29*thick 10mm OD26*thick 8mm
- 3) Working temperature:-20~600°C
- 4) Nominal pressure: PN0~10MPa
- 5) Quartz tube test pressure: ≤ 13 MPa
- 6) Meter material: carbon steel, SS304
- 7) Green for liquid, red for air (can add electric light on order)



B-GZS-C series Economic Glass tube Water Level Gauge

- 1) Measure ranges: 300~5000mm
- 2) Working temperature: $\leq 180^{\circ}\text{C}$
- 3) Nominal pressure: PN0~16Bar
- 4) Meter material: carbon steel or SS304, SS316. Transparent tube protector: U shape Aluminium housing
- 5) Visible length = center to center distance-100mm
- 6) Connection method: thread or flange any type on order.

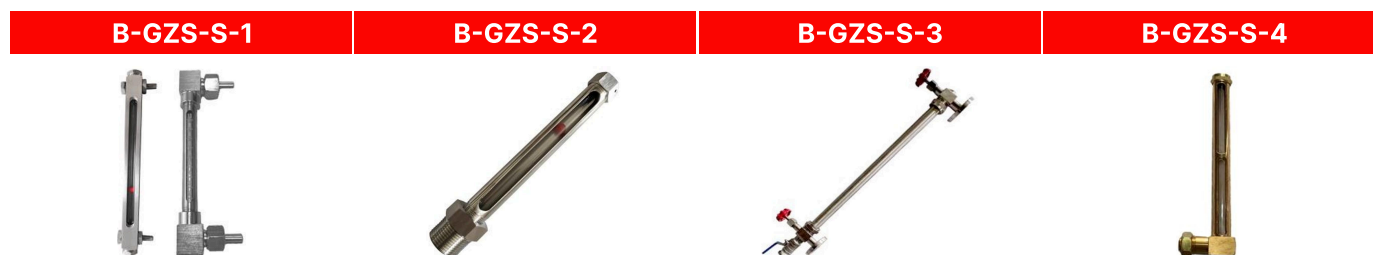


Water Gauge valve: needle valve with safety ball check inside the valve.

Type choice of glass tube:

- A) Borosilicate Glass tube OD 20mm x thick 2.5mm Borosilicate glass tube: C-C length ≤ 1840 mm or longer;
- B) Acrylic glass tube: OD20 x thick 3mm Suitable for center to center length < 5040 mm
- C) PTFE transparent tube OD 20 x thick 2mm Suitable for any length.

B-GZS-S Stainless Steel Glass Tube Level Indicator



Products:

Oil level indicator combines the multiple advantages of tubular level gauges, planar level gauges and boiler level indicators.

It consists of two parts: the outer metal protective shell and the inner glass tube for liquid measurement. The metal shell protects the inner glass tube from damage without affecting the effect of visual observation. Meanwhile, it overcomes the weakness of general tubular level gauges, such as fragile, unstable, and unsafe.

It can replace planar level gauges to some extent due to its low costs than that of planar level gauges of the same properties.

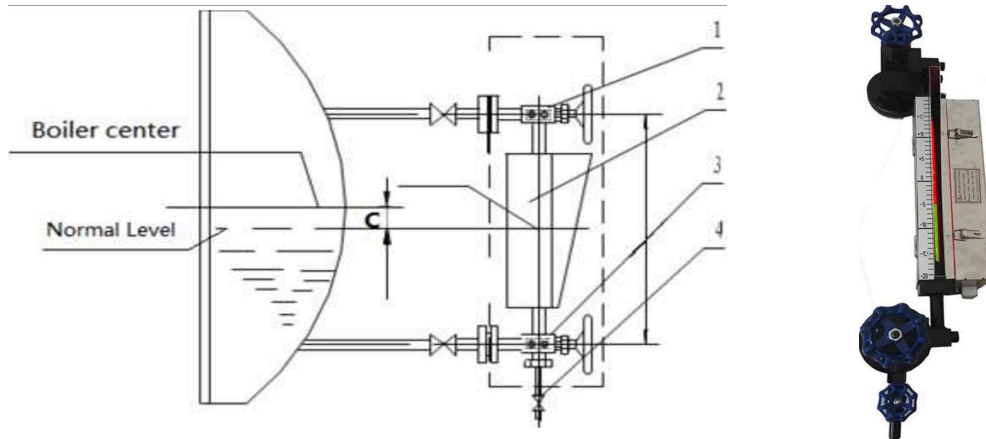


Features:

- **Robust structure.** The glass tube for measurement is covered with a metal protective shell to prevent the glass tube from being broken by accidents.
- **Direct observation.** The gauge glass of oil level indicator can achieve the best level observation effect, and its transparency can be used to observe the condition and color of the liquid.
- Simple structure, easy maintenance.
- It may act as the discharge port of oil tanks or as the filling port for liquids, or as a sampling port of oil samples.
- Excellent corrosion resistance, high temperature resistance and inexpensive price. Specification of Oil Level Indicators

Model	
Range of Measurement	20-1000mm
Operating Pressure	0.6-0.1MPa
Operating Temperature	-10°C to +180°C
Body Material	SS304, SS316, Brass, Carbon Steel
Gauge Glass Material	Borosilicate, Organic, Stalinite, Quartz Glass
Connection Method	Flange, Thread, Welding, or customizable
Connection Size	On order

B-B49HT-2.5G, 4.0G, 6.4G, 10G Double Color quartz Glass Tube Water Level Indicator



Bi-color water gauge consists of upper valve, lower valve, and gauge chamber, drain valve, and lamp house. Inside the valve body. There is a safety steel ball and safety valve seat. When the quartz glass tube is broken suddenly, the steel ball will remove to the safety valve seat in high speed pushed by high pressure steam to shut off the channel of the gauge automatically until the upper and lower valves is closed by hand. The ball will be reset by the pressure from the balancing tube and by its gravity.

- 1) Measure ranges: 300-600mm
- 2) Working temperature: -20~450 °C , 600 ° C
- 3) Glass Tube Size: Quartz tube OD29*thickness 10mm
- 4) Meter material: A105, SS304, SS316
- 5) Process connection: flange DN25 or other. PN2.5, PN4.0, PN6.4, PN10MPa
- 6) Bi-color display: red for air, green for water level display. (Very clear display)
- 7) Two LED light assemble to the level gauge: Adapter input: 100-240VAC, output: 3-24VDC adjustable, LED power: 3-24VDC.

Components:

- | | | |
|------------------|----------------------|-------------------|
| 1. RED GLASS | 6. GLASS COVER PLATE | 11. GRAPHITE RING |
| 2. GAUGE housing | 7. LIGHT COVER | 12. BRACKET |
| 3. WINDOWS COVER | 8. REFLECTOR PLATE | 13. power adapter |
| 4. QUARTZ TUBE | 9. END COVER | |
| 5. GREEN GLASS | 10. PRESS COVER | |