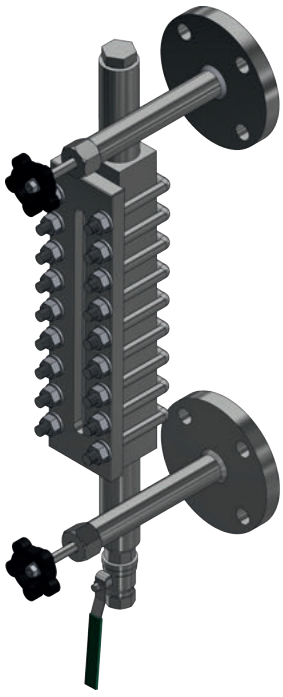
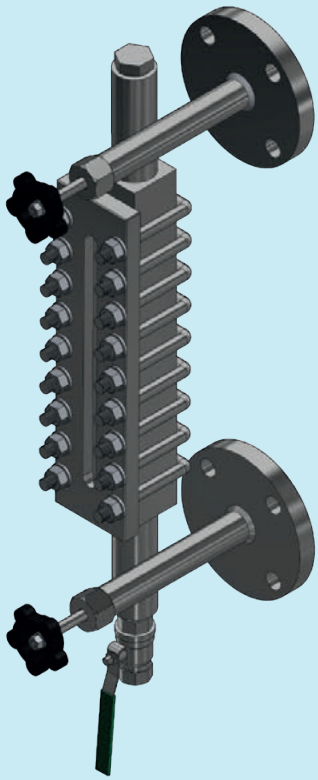
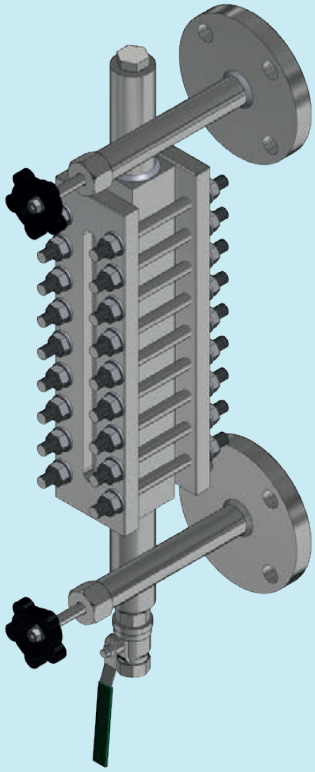
SHRIDHAN®

Automate Your Field



GLASS VIEW LEVEL GAUGES





ISO - 9001-14001-45001 Certified

INDEX

1. GLASS VIEW LEVEL GAUGES

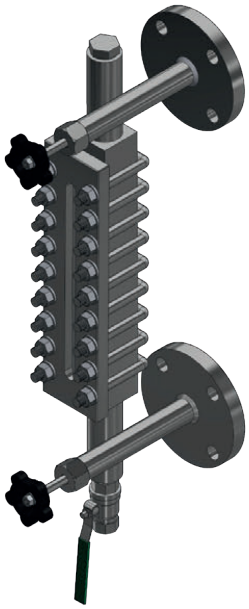
Level gauges using Glass showcases the simple measurement principle of line of sight – Glass level gauges are unique for measurement of liquids, with lesser maintenance and a longer product life cycle for the end users.

1.1 FEATURES OF LEVEL GAUGES

- Completely mechanical device
- Does not require power to operate
- Used for visual level indication

1.2 TYPES

1.2.1 REFLEX LEVEL GAUGE



Operating principle – REFLECTION and REFRACTION index of light

Reflex Level Gauge consist of a chamber and 'reflex' glass whose inner surface has precisely molded prismatic grooves cut on it.

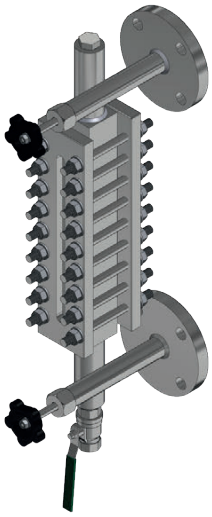
The inner surface of the reflex glass is placed on the liquid chamber with cushion + gasket and cover plate and all held together by U-bolts as shown in the adjacent figure.

The chamber can be fitted with gauge valves, for operator safety – gauge valves stop flow into the level chamber, in case there is any accidental damage,preventing spills.

The portion of the gauge-glass, up to which the liquid level stands, appears black due to refraction of light passing through liquid and the prismatic grooves, whereas it appears to be silvery-white in the glass portion above liquid level or that covering vapor space.

For clean / colorless liquids, high pressure and high temperature applications.

1.2.2 TRANSPARENT LEVEL GAUGE



Operating principle – REFLECTION of light

The construction consists of a liquid chamber formed by one metal piece and a pair of flat glasses that have smooth finish on both sides and are fitted on front and rear side of chamber and all held together by Hex-bolts as shown in the adjacent figure.

The chamber can be fitted with gauge valves, for operator safety – gauge valves stop flow into the level chamber, in case there is any accidental damage preventing spills.

Due to transparent nature of the flat glasses, the contents of the liquid chamber are directly readable through the viewing windows.

Suitable for dirty, viscous, colored liquids, and interface applications**.**

1.2.3 WELD PAD LEVEL GAUGE

A weld pad type liquid level gauge is an instrument which is designed to be used where it is not possible or practical to install a conventional tubular, reflex / transparent gauge. This type of gauge is designed so that it can be continuously welded via the chamber directly to the vessel upon which it will be measuring. The base which is welded can be either flat or radius bottomed to suit the vessel configuration and the glass is almost always reflex type as it is not possible to provide illumination from inside the tank from where the gauge is installed.

Non-critical application, without any form of isolation.

1.3 STANDARD MATERIAL OF CONSTRUCTION

BOROSILICATE GLASS

Gaskets

- Non-asbestos - Standard (Seal/Cushion)
- Graphite, with .002" (.05mm) stainless steel reinforcement layer
- Teflon ®
- Other Materials Available on request

Chamber

- Carbon Steel To -20°F (-28°C)
- Low Temp Carbon Steel To -50°F (-45°C)
- Stainless Steel To -325°F (-198°C)

All Acceptable for NACE Service

Shields

Shields are used to protect the glass from chemical attack.
Types: Mica and PCTFE.

- MICA: Mica shields are used to protect the glass from corrosion in high pressure steam (over 300WSP) and caustic applications (pH >11).

- PCTFE: PCTFE shields (formerly known as Kel-F ®) are primarily used in Hydrofluoric Acid service. Note that the PCTFE shield also serves as the sealing gasket; no additional sealing gasket is required.

GLASS TYPES & SIZES

- Borosilicate
  - Up to 320 °C (600 °F)
  - Up to 300 WSP
  - over 300 WSP, MICA protected transparent only
- High Pressure Borosilicate
  - Higher Tolerances
- Aluminosilicate
  - Up to 430 °C (800 °F)

Glass Sizes – Industry Std. 34mm – Sizes 1 to 9

SIZE	GLASS LENGTH
1	115mm (4½")
2	140mm (5½")
3	165mm (6½")
4	190mm (7½")
5	220mm (8⅝")
6	250mm (9⅞")
7	280mm (11")
8	320mm (12⅝")
9	340mm (13⅜")

GASKET MATERIAL

MATERIAL	MIN. TEMPERATURE	MAX. TEMPERATURE	RATING FACTOR
Garlock IFG-5500	-40 °C (-40 °F)	550° F (288° C)	100%
Glass Filled Teflon	-200 °C (-328 °F)	500° F (260° C)	100%
Grafoil	-240 °C (-400 °F)	800° F (427° C)	100%
PCTFE (Kel-F®) Shield	-240 °C (-400 °F)	302° F (150° C)	50%

2. SHRIDHAN “SG” SERIES GLASS LEVEL GAUGES

For pressures up to 225 bar at 40 ºC (3270 psi at 100 ºF)

Shridhan Medium Chamber gauges are designed to be used in direct reading liquid level measurement for medium pressure tank applications in the various process industries.

(1) shrouded cover plates to protect glass edges, for operator safety
(2) tempered Borosilicate or Aluminasilicate glasses

“SG” Series Gauges are available in reflex or transparent design. The liquid chamber is constructed of one-piece solid bars, slotted and machined to provide seats for the gaskets and glasses. Standard cover plates are then secured with specially designed bolts and nuts.

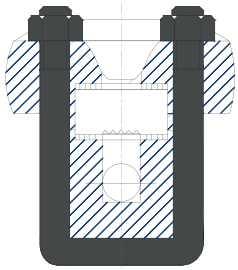


Fig. 1 - Reflex

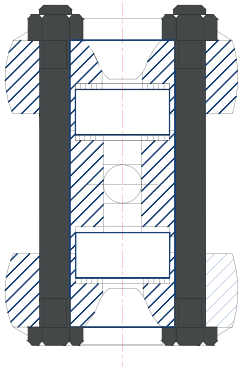


Fig. 2 - Transparent

2.1 FEATURES

- Tempered Borosilicate / Aluminosilicate Glass (for temp. > 320 ºC / 600 ºF)
- Wetted Parts conform to NACE MR0175 & MR0103
- All Parts listed in various International standard like ASTM / ASME / DIN / Others
- All gauges are of one-piece chamber construction regardless of length (Refer visible length chart)

2.2 PRESSURE / TEMPERATURE RATINGS, PSI / BAR

"SG" SERIES - REFLEX
(NOT recommended for steam service)

Temp.		Glass Size																	
		1		2		3		4		5		6		7		8		9	
°C	°F	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi
40	100	226	3270	216	3140	207	3000	199	2880	190	2750	181	2630	173	2510	165	2390	155	2250
95	200	213	3090	205	2970	197	2860	189	2740	181	2620	172	2500	164	2380	156	2260	148	2150
150	300	200	2900	192	2790	184	2670	176	2560	169	2450	161	2340	153	2220	145	2110	138	2000
205	400	186	2700	179	2600	172	2490	164	2380	156	2270	150	2170	142	2060	134	1950	128	1850
260	500	173	2510	166	2410	159	2305	152	2205	145	2100	138	2000	131	1900	124	1800	117	1700
320	600	157	2285	151	2190	145	2100	139	2010	132	1915	125	1820	119	1730	113	1640	107	1550
For temperatures above 320 ˚C (600 ˚F) Aluminosilicate Glass are preferred																			
370	700	143	2080	137	1990	132	1910	125	1820	120	1740	114	1650	108	1570	102	1480	96	1400
430	800	129	1870	123	1790	119	1720	113	1640	108	1560	102	1480	97	1410	92	1330	86	1250

"SG" SERIES - TRANSPARENT
(Saturated steam rating 300 WSP)

Temp.		Glass Size																	
		1		2		3		4		5		6		7		8		9	
°C	°F	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi
40	100	138	2000	128	1850	121	1750	110	1600	103	1500	93	1350	86	1250	76	1100	69	1000
95	200	131	1900	123	1780	114	1660	107	1550	99	1440	90	1300	81	1175	73	1060	65	950
150	300	122	1770	114	1660	107	1550	100	1450	92	1330	84	1220	76	1100	69	1000	62	900
205	400	115	1675	109	1575	101	1470	93	1350	86	1250	79	1150	72	1050	64	925	59	850
260	500	105	1530	100	1450	93	1350	86	1250	79	1150	72	1050	65	950	59	850	52	750
320	600	93	1350	88	1275	81	1180	76	1100	70	1010	64	925	59	850	52	750	46	675
For temperatures above 320 ˚C (600 ˚F) Aluminosilicate Glass are preferred																			
370	700	84	1220	79	1140	74	1070	68	990	63	920	58	840	52	760	48	690	42	610
430	800	76	1100	71	1030	66	960	61	890	56	820	52	750	48	690	43	620	38	550

TEST PRESSURE: All gauges are hydrotested prior to shipment at 1.5 times the design pressure rating at 40°C (100 ºF).

2.3 SPECIFICATIONS

LENGTHS
Gauge sections are available in 9 standard glass sizes. Longer sizes are constructed with multiple vision slots in a continuous solid tube chamber.

CONNECTIONS
Standard connections are at top and bottom and are ½" or ¾" NPT female. Up to 2" NPT or socket weld end, flanged / threaded side, or back connections are also available.

LIQUID CHAMBER
Machined from a solid one-piece bar stock. The gasket / glass seating machined on the chamber aids in field repair and enhances safety/reliability.

COVERS
Forged carbon steel covers are standard with optional materials available. The cushion gasket surface is recessed on all covers.

BOLTS & NUTS
Steel fasteners, heat treated for strength; A193 B7 bolts / A194 2H nuts. NACE options include A193 B7M bolts / A194 2HM nuts and A193 B8M bolts / A194 8M nuts (316 Stainless Steel).

GLASS
Tempered Borosilicate is used to 320ºC (600ºF). Aluminosilicate is used up to 430ºC (800ºF). Transparent glass may be protected from corrosive media with shields.

GASKETS
Standard gaskets are non-asbestos with optional material available.

VALVES
Use of gauge valves is strongly recommended. Std. features include safety ball-checks which help prevent loss of product and physical injury in the event of a catastrophic failure.

FINISH
All carbon steel parts are with rustproof coating as a standard. Optional coatings are available to meet corrosive or extreme high temperature conditions.

3. SHRIDHAN "CG" SERIES GLASS LEVEL GAUGES

For pressures up to 165 bar at 40 ºC (2400 psi at 100 ºF)

Shridhan Large Chamber gauges are designed to give an accurate liquid level reading of liquids that have a tendency to boil (flashing) or in cryogenic services. These gauges are highly effective in:

(1) Reducing the effects of trapped gas being released under low pressure,
(2) Eliminating level fluctuations that occur in standard gauges (with small/square/ rectangular chambers) when boiling/flashing vapors try to rise to the surface.
(3) Applications where the operating temperature is below freezing conditions (cryogenic) – in these applications the gauge must be equipped with Non-Frost Extensions.

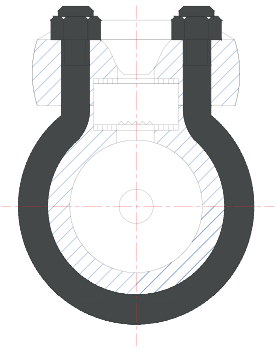


Fig. 1 - Reflex

"CG" Series Gauges are available in reflex or transparent design. The liquid chamber is constructed of heavy tubing/piping, slotted and machined to provide seats for the gaskets and glasses. Standard cover plates are then secured with specially designed bolts and nuts.

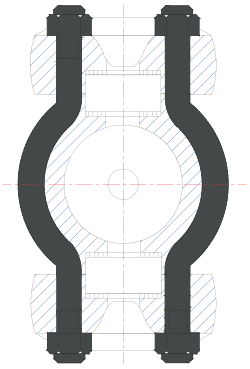


Fig. 1 - Transparent

3.1 FEATURES

- Tempered Borosilicate / Aluminosilicate Glass (for temp. > 320 ºC / 600 ºF)
- Wetted Parts conform to NACE MR0175 & MR0103
- All Gauges feature a one-piece chamber regardless of length (refer visible length chart)

3.2 PRESSURE / TEMPERATURE RATINGS, PSI / BAR

"CG" SERIES - REFLEX
(NOT recommended for steam service)

Temp.		Glass Size																	
		1		2		3		4		5		6		7		8		9	
°C	°F	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi
40	100	165	2400	155	2250	144	2100	134	1940	124	1800	113	1640	103	1500	92	1340	82	1200
95	200	153	2220	144	2090	134	1950	125	1810	115	1670	106	1540	96	1400	87	1260	78	1130
150	300	141	2050	132	1920	124	1800	116	1680	106	1540	98	1430	90	1300	81	1180	73	1060
205	400	128	1860	120	1750	113	1640	106	1530	98	1420	91	1320	82	1200	76	1100	69	1000
260	500	116	1690	110	1600	103	1500	96	1400	90	1300	83	1210	76	1110	69	1010	63	920
320	600	104	1520	98	1430	93	1350	87	1260	81	1180	76	1100	69	1010	63	920	58	850
For temperatures above 320 ˚C (600 ˚F) Aluminosilicate Glass are preferred																			
370	700	92	1340	87	1270	82	1200	78	1130	73	1060	68	990	63	920	58	850	54	780
430	800	80	1170	76	1110	73	1060	69	1000	65	940	61	880	57	830	53	770	49	710

"CG" SERIES - TRANSPARENT
(Saturated steam rating 300 WSP)

Temp.		Glass Size																	
		1		2		3		4		5		6		7		8		9	
°C	°F	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi
40	100	83	1200	76	1110	70	1020	64	930	59	850	52	760	47	680	41	590	35	500
95	200	75	1080	69	1000	63	920	58	840	52	760	47	680	41	600	37	530	31	450
150	300	66	960	61	890	57	830	52	750	47	680	43	620	37	540	32	470	28	400
205	400	58	850	54	790	49	720	46	670	42	600	37	540	33	480	29	420	225	360
260	500	50	730	47	680	43	630	39	570	36	520	32	470	29	420	25	360	21	310
320	600	42	620	39	570	37	530	33	480	30	440	28	400	25	360	21	310	19	270
For temperatures above 320 ˚C (600 ˚F) Aluminosilicate Glass are preferred																			
370	700	34	1340	32	470	29	1200	27	400	25	360	23	330	20	290	18	260	15	220
430	800	26	1170	25	360	23	1060	21	310	20	290	18	260	16	230	15	210	12	180

TEST PRESSURE: All gauges are hydrotested prior to shipment at 1.5 times the design pressure rating at 40°C (100 ºF).

3.3 SPECIFICATIONS

LENGTHS
Gauge sections are available in 9 standard glass sizes. Longer sizes are constructed with multiple vision slots in a continuous solid tube chamber.

CONNECTIONS
Standard connections are at top and bottom and are ½" or ¾" NPT female. Up to 2" NPT or socket weld end, flanged / threaded side, or back connections are also available.

LIQUID CHAMBER
Heavy wall piping / tubing, 2" I.D.Gasket seats are machined on the face of the chamber and assembly torques are designed to prevent sidewise movement of gasket.

COVERS
Forged carbon steel covers are standard with optional materials available. The cushion gasket surface is recessed on all covers.

BOLTS & NUTS
Steel fasteners, heat treated for strength; A193 B7 bolts / A194 2H nuts. NACE options include A193 B7M bolts / A194 2HM nuts and A193 B8M bolts / A194 8M nuts (316 Stainless Steel).

GLASS
Tempered Borosilicate is used to 320ºC (600ºF). Aluminosilicate is used up to 430ºC (800ºF). Transparent glass may be protected from corrosive media with MICA or PCTFE shields.

GASKETS
Standard gaskets are non-asbestos with optional material available.

VALVES
Use of gauge valves is strongly recommended. Std. features include safety ball-checks which help prevent loss of product and physical injury in the event of a catastrophic failure.

FINISH
All carbon steel parts are with rustproof coating as a standard. Optional coatings are available to meet corrosive or extreme high temperature conditions.

4. SHRIDHAN "HP" SERIES GLASS LEVEL GAUGES

For pressures up to 275 bar at 40 ºC (4000 psi at 100 ºF)

Shridhan High-pressure Chamber gauges provide optimum versatility and can be used for most applications in critical environments. These gauges are designed for high pressure applications but low thermal duty; therefore, they are not recommended for steam/water applications. Process liquid levels are observed through the glass as it rises and falls in the gauge chamber.

"HP" Series Gauges are available in reflex or transparent design. The liquid chamber is constructed of one-piece solid bars, slotted and machined to provide seats for the gaskets and glasses. Standard cover plates are then secured with specially designed bolts and nuts.

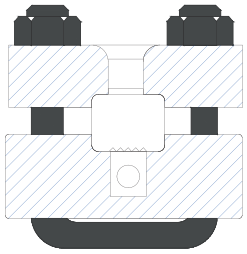


Fig. 1 - Reflex

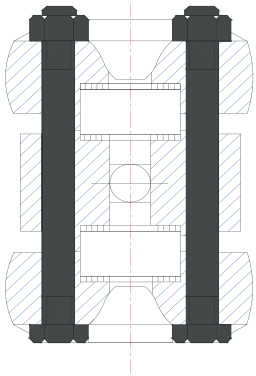


Fig. 2 - Transparent

4.1 FEATURES

- Tempered Borosilicate / Aluminosilicate Glass (for temp. > 320 ºC/600 ºF)
- Wetted Parts conform to NACE MR0175 & MR0103
- All Parts listed in various International standard like ASTM/ASME/DIN/Others
- All gauges are of one-piece chamber construction regardless of length (Refer visible length chart)

4.2 PRESSURE/TEMPERATURE RATINGS, PSI/ BAR

"HP" SERIES - REFLEX
(NOT recommended for steam service)

Temp.		Glass Size																	
		1		2		3		4		5		6		7		8		9	
°C	°F	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi
40	100	276	4002	266	3857	259	3755	248	3596	242	3509	229	3320	222	3219	213	3088	207	3001
95	200	262	3799	254	3683	247	3581	236	3422	229	3320	221	3204	213	3088	206	2987	197	2856
150	300	248	3596	239	3465	231	1149	224	3248	215	3117	207	3007	199	2885	192	2784	184	2668
205	400	229	3320	221	3204	214	3103	207	3001	200	2900	192	2784	185	2682	177	2566	170	2465
260	500	212	3074	204	2958	198	2871	190	2755	185	2682	177	2566	170	2465	162	2349	156	2262
320	600	192	2784	186	2697	179	2595	172	2494	166	2407	160	2320	153	2218	147	2131	141	2044

For temperatures above 320 ˚C (600 ˚F) Aluminosilicate Glass are preferred - Contact factory for more information

"HP" SERIES - TRANSPARENT (Saturated steam rating 300 WSP)																			
Temp.		Glass Size																	
		1		2		3		4		5		6		7		8		9	
°C	°F	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi
40	100	207	3001	200	2900	190	2755	180	2610	172	2494	164	2378	155	2247	145	2102	138	2000
95	200	197	2856	191	2769	181	2624	172	2494	162	2349	156	2262	147	2131	140	2030	131	1900
150	300	192	2784	176	2552	169	2450	161	2334	155	2247	146	2117	138	2001	131	1900	122	1769
205	400	174	2523	166	2407	160	2320	152	2204	145	2102	137	1986	131	1900	121	1754	116	1682
260	500	161	2334	155	2247	150	2175	142	2059	133	1928	128	1856	121	1754	114	1653	106	1537
320	600	142	2059	135	1957	129	1970	124	1798	119	1725	113	1638	105	1522	100	1450	93	1348
For temperatures above 320 ˚C (600 ˚F) Aluminosilicate Glass are preferred - Contact factory for more information																			

TEST PRESSURE: All gauges are hydrotested prior to shipment at 1.5 times the design pressure rating at 40°C (100 ºF).

4.3 SPECIFICATIONS

LENGTHS

Gauge sections are available in 9 standard glass sizes. Longer sizes are constructed with multiple vision slots in a continuous solid tube chamber.

CONNECTIONS

Standard connections are at top and bottom and are ½" or ¾" NPT female. Up to 2" NPT or socket weld end, flanged / threaded side, or back connections are also available.

LIQUID CHAMBER

Machined from a solid one-piece bar stock. The gasket/glass seating machined on the chamber aids in field repair and enhances safety/reliability.

COVERS

Forged carbon steel covers are standard with optional materials available. The cushion gasket surface is recessed on all covers.

BOLTS & NUTS

Steel fasteners, heat treated for strength; A193 B7 bolts / A194 2H nuts. NACE options include A193 B7M bolts / A194 2HM nuts and A193 B8M bolts / A194 8M nuts (316 Stainless Steel).

GLASS

Tempered Borosilicate is used to 320ºC (600ºF). Aluminosilicate is used up to 430ºC (800ºF). Transparent glass may be protected from corrosive media with shields.

GASKETS

Standard gaskets are non-asbestos with optional material available.

VALVES

Use of gauge valves is strongly recommended. Std. features include safety ball-checks which help prevent loss of product and physical injury in the event of a catastrophic failure.

FINISH

All carbon steel parts are with rustproof coating as a standard. Optional coatings are available to meet corrosive or extreme high temperature conditions.

5.1 ORDERING INFORMATION FOR GLASS VIEW LEVEL GAUGES

SPECIFY PART NO.

	1	2	3	4	5	6	7	8	9	10	11	12	13
GLG													
GLG													
Example	R	S	2	SG	DI	1	AT	R	A	3B	1G	1G	NN

1	GAUGE TYPE
R	Reflex
T	Transparent
W	Weld Pad
O	Others

2	ORIENTATION
S	Side-Side
T	Top-Bottom (End)
O	Others

3	NO. OF SECTIONS
1	One section
2	Two sections
3	Three sections
4	Four sections
5	Five sections
O	Other configurations

4	MODEL
SG	Medium Pressure Series
CG	Large Chamber Design
HP	High Pressure Series
WP	Weld Pad
OO	Others

5	MATERIAL OF CONSTRUCTION
	Chamber
A	Carbon Steel
B	Low Temperature Carbon Steel
C	304 SS
D	316 SS
O	Others
	Cover Plate
I	Carbon Steel
J	Low Temperature Carbon Steel
K	304 SS
L	316 SS
O	Others

6	GLASS
1	T. Borosilicate
2	Aluminosilicate
O	Others

7	GAUGE / CHAMBER CONNECTION		
	Size		**Type**
A	½" NPT (f)	T	Threaded Nipple
B	¾" NPT (f)	U	Plain Union
O	Others	S	Spherical Union
		O	Others

8	AUTO SHUT-OFF VALVE
N	None
R	Required (with Ball-Check)

9	VALVE BODY
A	Carbon Steel
B	Low Temperature Carbon Steel
C	304 SS
D	316 SS
O	Others
N	None

10	PROCESS CONNECTION		
	Flanged		
1	½" / DN 15	A	150# / PN16
2	¾" / DN 20	B	300# / PN 40
3	1" / DN 25	C	600# / PN 64
4	1½" / DN 40	D	900# / PN 100
5	2" / DN 50	E	1500# / PN 160
6	3" / DN 80	F	2500# / PN 250
	Threaded		
7	½" / DN 15	G	NPT
8	¾" / DN 20	H	BSP
9	1" / DN 25	O	Others
O	Others		

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5.1 ORDERING INFORMATION FOR GLASS VIEW LEVEL GAUGES

SPECIFY PART NO.

	1	2	3	4	5	6	7	8	9	10	11	12	13
GLG													
GLG													
Example	R	S	2	SG	DI	1	AT	R	A	3B	1G	1G	NN

11	VENT CONNECTION		
	Flanged / Plugged / Valves		
1	½" / DN 15	A	150# / PN16
2	¾" / DN 20	B	300# / PN 40
3	1" / DN 25	C	600# / PN 64
4	1½" / DN 40	D	900# / PN 100
5	2" / DN 50	E	1500# / PN 160
		F	2500# / PN 250
		G	NPT Plug
		H	BSP Plug
		I	Threaded valves
		J	SW Valve
		K	SW Valve w/ Flange [1]
		L	Flanged Valve [1]
0	NONE	N	NONE
		O	Others

12	DRAIN CONNECTION		
	Flanged / Plugged / Valves		
1	½" / DN 15	A	150# / PN16
2	¾" / DN 20	B	300# / PN 40
3	1" / DN 25	C	600# / PN 64
4	1½" / DN 40	D	900# / PN 100
5	2" / DN 50	E	1500# / PN 160
		F	2500# / PN 250
		G	NPT Plug
		H	BSP Plug
		I	Threaded valves
		J	SW Valve
		K	SW Valve w/ Flange [1]
		L	Flanged Valve [1]
0	NONE	N	NONE
		O	Others

[1] in case of SW Valve w/ Flange OR Flanged valves, rating of flanges shall be as per process / instrument connection

13	OPTIONS / ACCESSORIES
NN	None
IL	Illuminator (for Transparent only)
SC	Scale in SS
MI	MICA Shield (for Transparent only)
IN	Heating Jacket / Insulation
CY	Cryogenic Insulation (Large Chamber only)
FR	Anti-frost extension
XX	Multiple options (as specified on TDS)
OO	Others

ACCESSORIES

Bulb type Illuminator

Frost Shields

LED type Illuminator

PCTFE Shields

5.2 TYPICAL VISIBLE LENGTH CHART

No. of Sections	Glass Size	Visible Length (V)		Overall Length (O) [2]		Approximate Weights			
		mm	in	mm	in	Reflex		Transparent	
						kgs	lbs	kgs	lbs
1	1	95	3.8	133	5.3	4.1	9	5.9	13
	2	121	4.8	159	6.3	4.5	10	6.8	15
	3	146	5.8	184	7.3	5.5	12	7.7	17
	4	171	6.8	210	8.3	5.9	13	9.1	20
	5	200	7.9	238	9.4	6.8	15	10	22
	6	232	9.1	270	10.6	7.7	17	11.4	25
	7	260	10.3	298	11.8	8.6	19	12.7	28
	8	302	11.9	340	13.4	9.5	21	14.1	31
	9	321	12.6	359	14.1	10	22	15	33
2	3	330	13.0	368	14.5	10.5	23	15.9	35
	4	381	15.0	419	16.5	12.3	27	17.7	39
	5	438	17.3	476	18.8	13.2	29	20	44
	6	502	19.8	540	21.3	15.5	34	22.7	50
	7	559	22.0	597	23.5	16.8	37	25	55
	8	641	25.3	679	26.8	19.1	42	28.2	62
	9	679	26.8	718	28.3	20	44	29.5	65
3	6	772	30.4	810	31.9	22.7	50	34.1	75
	7	857	33.8	895	35.3	25.5	56	37.3	82
	8	981	38.6	1019	40.1	28.6	63	42.3	93
	9	1038	40.9	1076	42.4	30	66	44.5	98
4	7	1156	45.5	1194	47.0	33.6	74	49.5	109
	8	1321	52.0	1359	53.5	38.2	84	56.4	124
	9	1397	55.0	1435	56.5	40	88	59.1	130
5	7	1454	57.3	1492	58.8	42.3	93	62.3	137
	8	1661	65.4	1699	66.9	47.7	105	70.5	155
	9	1756	69.1	1794	70.6	50.5	111	74.1	163
6	8	2000	78.8	2038	80.3	57.3	126	84.5	186
	9	2115	83.3	2153	84.8	60.5	133	89.1	196
7	8	2340	92.1	2378	93.6	66.8	147	98.6	217
	9	2473	97.4	2511	98.9	70.5	155	103.6	228
8	8	2680	105.5	2718	107.0	76.8	169	112.7	248
	9	2832	111.5	2870	113.0	80.5	177	118.6	261
9 [1]	8	3019	118.9	3058	120.4	86.4	190	126.8	279
	9	3191	125.6	3229	127.1	90.5	199	133.6	294

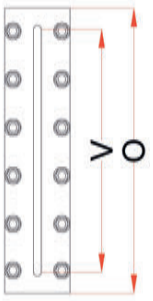
[1] Not available in "CG" Series

[2] Overall length may vary for "CG" series - contact factory"

* For visible lengths in reference to C-C distances - please consult factory

* * PTFE / PFA lined level gauges shall be manufactured on request - please consult factory

* *All information stated above is approximate and is provided for reference purposes only



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Head office and Manufacturing - 1

SHRIDHAN Automation Pvt. Ltd.
#B-54, KSSIDC Industrial Estate,
Kumbalgodu, Mysore Road,
Bangalore-560074. India.
+91-80-28437847, +91 80 - 28437848
info@shridhan.com

Manufacturing - 2

SHRIDHAN Automation Pvt. Ltd.
#D-13 KIADB Industrial Area,
Kumbalgodu, Mysore Road,
Bangalore-560074. India.
+91-80-28437847, +91 80 - 28437848
info@shridhan.com

Middle East

ORBIT Automation FZE
#R4-40 A,PO Box - 122828,
SAIF Zone, Sharjah, UAE.

A 100% Subsidiary of
SHRIDHAN Automation Pvt. Ltd., India.
Ph:+97155 - 9347963,+97155 - 1883375
me@shridhan.com

Disclaimer: We reserve the right to modify the design without prior notice

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