TÜV CERT DIN EN ISO 9001

CE

SIGHT GLASS



SAM IL INDUSTRY CO.,LTD.

www.samilind.co.kr

The Sight Glass is a kind of piping components to look into directly a fluid flow within a pipe line. Generally, Casting is used for the body material and for high pressure, Piping or Forging will be used. **SAM IL**'s Sight Glass are classified depending on structure and purpose for using and those are See Through Type, Flapper Type, Ball Type, Lantern Type, Lined Type, Wiper Type, Jacket Type, Propeller Type & Special Type.
Basically, Special Types are made on Customer Requirements and Process Conditions of Fluid Flow.

An appearance or a shape of Sight Glass may be a little bit changed for quality improvement, without notice.

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SAM IL INDUSTRY CO.,LTD.

 See Through Type	 See Through Type	 Flapper Type	 Ball Type
 Ball Type	 Lined Type	 Propeller Type	 Propeller Type
 Wiper Type	 Lantern Type	 Calibration Pots Type	 Non-Frosting Type
 Protection Type	 Protection Type	 Drip Neck Type	 Pad Type with illuminator
 Illuminator Type	 Side Type	 Jacket Type	 HT-PVC Material Type

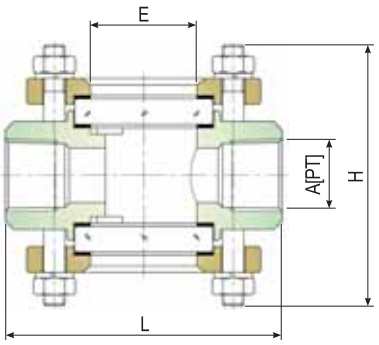
SSG-STT

As this type has no flapper, balls, propellor, etc., of which facilitate its observing when fluids is flowing, it is useful for observing the chromatic fluids. therefore, this type not available on an achromatic colored fluids, such as air, oxygen, etc..

※ PT is standard. NPT may be substituted.

SPECIFICATIONS

Connection	: Threaded End
Max. Pressure	: 30 kg_f/cm^2 G
Max. Temperature	: 300 deg C
Glass Material	: Tempered
Body Material	: Stainless Steel or C.S, etc., Other mat'ls are available.





SIZE [A] PT	L	H [Approx.]	E	FLOW DIRECTION
1/4	120	125	50	
3/8	120	125	50	
1/2	120	125	50	
3/4	120	125	50	
1	130	125	50	
1 1/4	145	140	65	
1 1/2	145	140	65	
2	180	150	65	

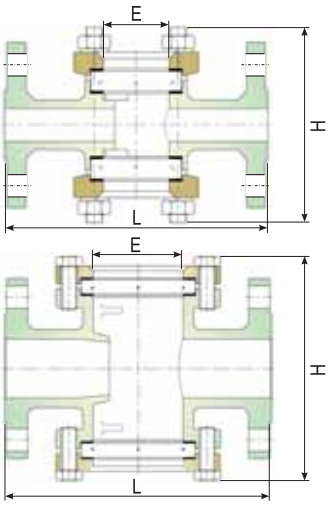
SSG-STF

This type also has no flapper, balls, etc.
The cover is designed and manufactured as a circular formed greater than 2" and a rectangular formed up to 2" as shown the left.
Drip Neck Type is available on request.

▣ Type A : 2"[DN50] and Below Size.
▣ Type B : 2 1/2"[DN65] and Above.

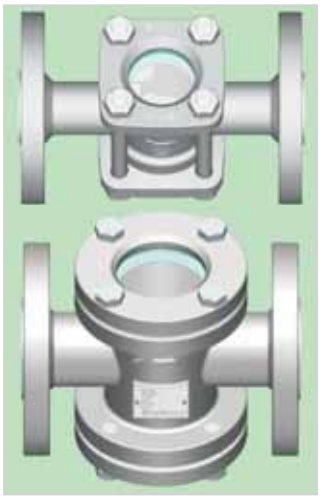
SPECIFICATIONS

Connection	: Flanged End
Max. Pressure	: 40 kg_f/cm^2 G
Max. Temperature	: 300 deg C
Glass Material	: Tempered
Body Material	: Stainless Steel or C.S, etc., Other mat'ls are available.



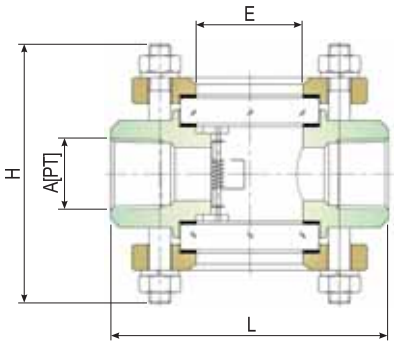
TYPE-A

TYPE-B



SIZE DN	SIZE NPS	L 150#	L 300#	H [Approx.] 150#	H [Approx.] 300#	E	FLOW DIRECTION
15	1/2	160	170	118	125	40	
20	3/4	160	170	118	125	40	
25	1	170	180	118	125	40	
32	1 1/4	200	210	152	158	50	
40	1 1/2	200	210	152	158	50	
50	2	220	230	175	180	65	
65	2 1/2	250	260	210	225	90	
80	3	270	290	230	250	105	
100	4	320	340	260	280	130	
125	5	380	410	310	330	170	
150	6	420	450	320	340	200	
200	8	500	530	395	415	260	





SIZE PT	L	H [Approx.]	E	FLOW DIRECTION
1/4	120	125	50	
3/8	120	125	50	
1/2	120	125	50	
3/4	120	125	50	
1	130	125	50	
1 1/4	145	140	65	
1 1/2	145	140	65	
2	180	150	65	

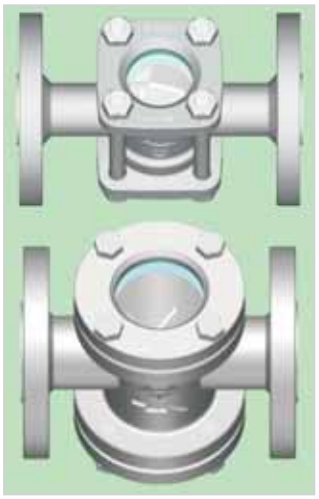
SSG-FTT

This type, the sight glass equipped with flapper can observe the state of fluid flow by opening and closing of the flapper on fluid flow.
and also, useful for an achromatic colored fluids, such as air, oxygen, etc.

※ PT is standard. NPT may be substituted.

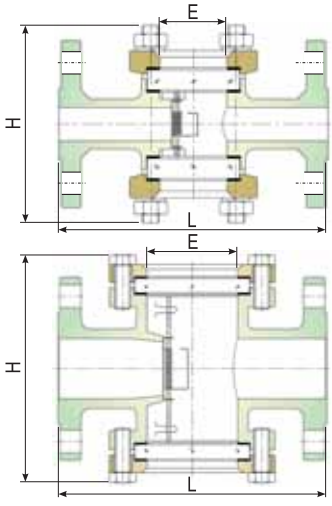
SPECIFICATIONS

Connection	: Threaded End
Max. Pressure	: 30 kg/cm^2 G
Max. Temperature	: 300 deg C
Glass Material	: Tempered
Body Material	: Stainless Steel or C.S, etc., Other mat'ls are available.



TYPE-A

TYPE-B



SIZE DN	SIZE NPS	L 150#	L 300#	H [Approx.] 150#	H [Approx.] 300#	E	FLOW DIRECTION
15	1/2	160	170	118	125	40	
20	3/4	160	170	118	125	40	
25	1	170	180	118	125	40	
32	1 1/4	200	210	152	158	50	
40	1 1/2	200	210	152	158	50	
50	2	220	230	175	180	65	
65	2 1/2	250	260	210	225	90	
80	3	270	290	230	250	105	
100	4	320	340	260	280	130	
125	5	380	410	310	330	170	
150	6	420	450	320	340	200	
200	8	500	530	395	415	260	

SSG-FTF

This type also is equipped with flapper and the flapper pushes the inlet side lightly by spring. thus, it doesn't opened by its own weight.
The cover is designed and manufactured as a circular formed greater than 2" and a rectangular formed up to 2" as shown the right.

- Type A : 2"[DN50] and Below Size.
- Type B : 2 1/2"[DN65] and Above.

SPECIFICATIONS

Connection	: Flanged End
Max. Pressure	: 40 kg/cm^2 G
Max. Temperature	: 300 deg C
Glass Material	: Tempered
Body Material	: Stainless Steel or C.S, etc., Other mat'ls are available.

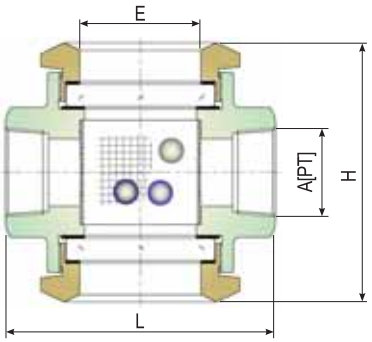
SSG-BST

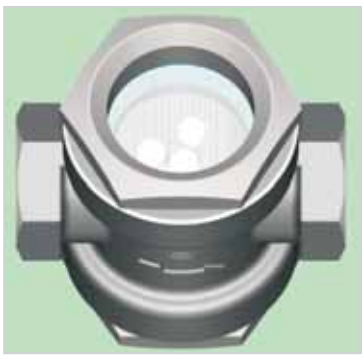
This type is used for observing the fluid flow at a low flow velocity by the motion of balls within iron screen.

※ PT is standard. NPT may be substituted.

SPECIFICATIONS

Connection	: Threaded End
Max. Pressure	: 30 kg_f/cm^2 G
Max. Temperature	: 300 deg C
Glass Material	: Tempered
Body Material	: Stainless Steel or C.S, etc., Other mat'ls are available.





SIZE PT	L	H	E	FLOW DIRECTION
1/4	120	125	50	
3/8	120	125	50	
1/2	120	125	50	
3/4	120	125	50	
1	130	125	50	
1 1/4	145	140	65	
1 1/2	145	140	65	
2	180	150	65	

SSG-BSF

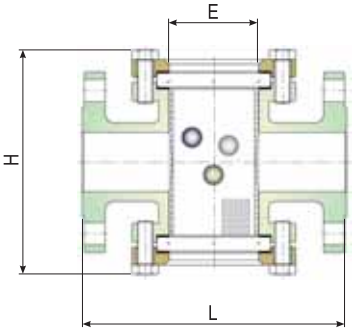
This type is used for observing the fluid state of a rather high flow velocity by the motion of balls within perforated plate ring.

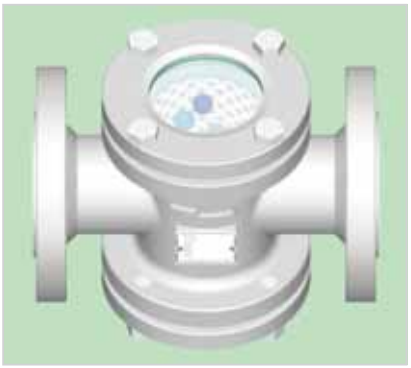
This has 3 balls which are different specific weight each other. therefore, each balls move sensitively by the flow state of fluid.

Balls have function as a swirl effect.

SPECIFICATIONS

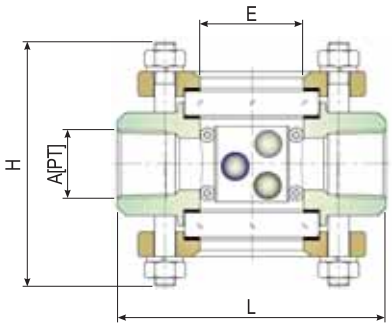
Connection	: Flanged End
Max. Pressure	: 40 kg_f/cm^2 G
Max. Temperature	: 300 deg C
Glass Material	: Tempered
Body Material	: Stainless Steel or C.S, etc., Other mat'ls are available.





SIZE DN	SIZE NPS	L 150#	L 300#	H [Approx.] 150#	H [Approx.] 300#	E	FLOW DIRECTION
15	1/2	160	170	118	125	40	
20	3/4	160	170	118	125	40	
25	1	170	180	118	125	40	
32	1 1/4	200	210	152	158	50	
40	1 1/2	200	210	152	158	50	
50	2	220	230	175	180	65	
65	2 1/2	250	260	210	225	90	
80	3	270	290	230	250	105	
100	4	320	340	260	280	130	
125	5	380	410	310	330	170	
150	6	420	450	320	340	200	
200	8	500	530	395	415	260	





SSG-BRT

This type is used for observing the fluid flow of a high flow velocity by the motion of balls within rigid iron-ring.

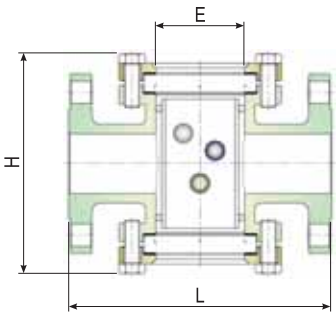
※ PT is standard. NPT may be substituted.

SIZE PT	L	H	E	FLOW DIRECTION
1/4	120	125	50	
3/8	120	125	50	
1/2	120	125	50	
3/4	120	125	50	
1	130	125	50	
1 1/4	145	140	65	
1 1/2	145	140	65	
2	180	150	65	

SPECIFICATIONS

Connection	: Threaded End
Max. Pressure	: 30 kg/cm^2 G
Max. Temperature	: 300 deg C
Glass Material	: Tempered
Body Material	: Stainless Steel or C.S, etc., Other mat'ls are available.





SSG-BRF

on using for long time, there may be gathered moss over the glass or covered with dust. in this case, the motion of balls will be wash it out at glass.

SIZE		L		H [Approx.]		E	FLOW DIRECTION
DN	NPS	150#	300#	150#	300#		
15	1/2	160	170	118	125	40	
20	3/4	160	170	118	125	40	
25	1	170	180	118	125	40	
32	1 1/4	200	210	152	158	50	
40	1 1/2	200	210	152	158	50	
50	2	220	230	175	180	65	
65	2 1/2	250	260	210	225	90	
80	3	270	290	230	250	105	
100	4	320	340	260	280	130	
125	5	380	410	310	330	170	
150	6	420	450	320	340	200	
200	8	500	530	395	415	260	

SPECIFICATIONS

Connection	: Flanged End
Max. Pressure	: 40 kg/cm^2 G
Max. Temperature	: 300 deg C
Glass Material	: Tempered
Body Material	: Stainless Steel or C.S, etc., Other mat'ls are available.

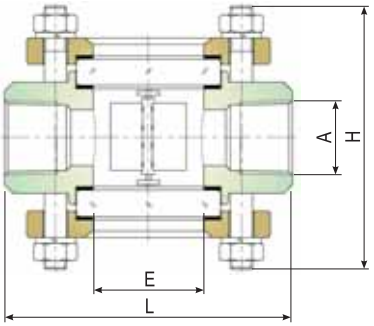
SSG-PTT

This type is equipped with the propeller and we can predict the flow velocity of fluid flow by rotating of the propeller.

※ PT is standard. NPT may be substituted.

SPECIFICATIONS

Connection	: Threaded End
Max. Pressure	: 30 kg_f/cm^2 G
Max. Temperature	: 300 deg C
Glass Material	: Tempered
Body Material	: Stainless Steel or C.S, etc., Other mat'ls are available.





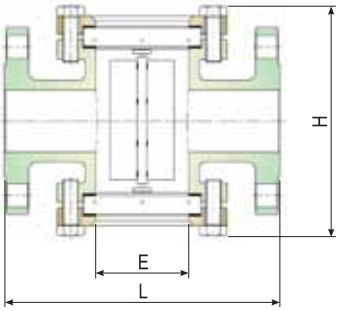
SIZE PT	L	H	E	FLOW DIRECTION
1/4	120	125	50	
3/8	120	125	50	
1/2	120	125	50	
3/4	120	125	50	
1	130	125	50	
1 1/4	145	140	65	
1 1/2	145	140	65	
2	180	150	65	

SSG-PTF

This type is equipped with the propeller and we can predict the flow velocity of fluid flow by rotating of the propeller.

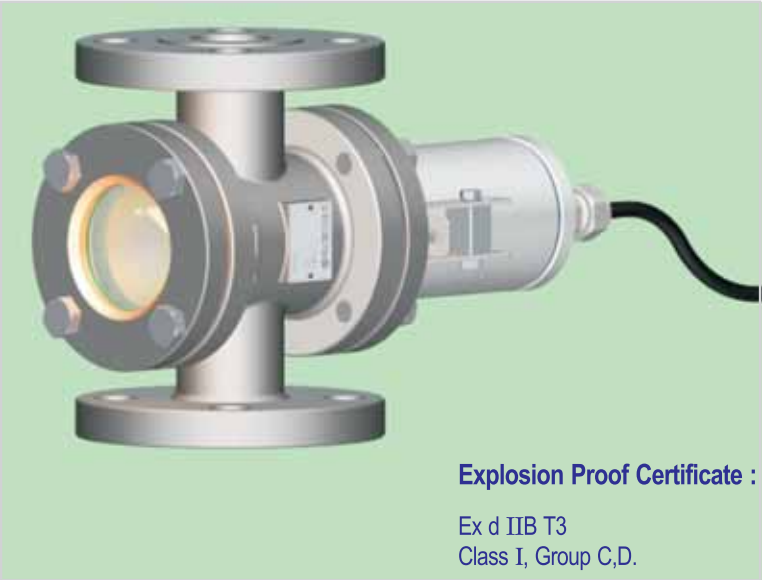
SPECIFICATIONS

Connection	: Flanged End
Max. Pressure	: 40 kg_f/cm^2 G
Max. Temperature	: 300 deg C
Glass Material	: Tempered
Body Material	: Stainless Steel or C.S, etc., Other mat'ls are available.





SIZE DN	SIZE NPS	L 150#	L 300#	H [Approx.]	E	FLOW DIRECTION
15	1/2	160	170	90	50	
20	3/4	160	170	90	50	
25	1	170	180	90	50	
32	1 1/4	202	210	160	65	
40	1 1/2	202	210	160	65	
50	2	222	230	173	75	
65	2 1/2	251	260	189	90	
80	3	273	290	207	105	
100	4	320	340	235	130	
125	5	385	410	290	170	
150	6	422	450	335	200	
200	8	505	530	400	260	



Explosion Proof Certificate :

Ex d IIB T3
Class I, Group C,D.

SSG-□□□-IL

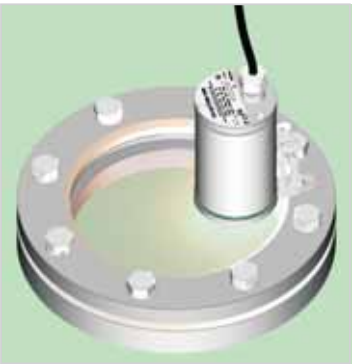
This type is equipped with the illuminator and you can observe the state of fluid flow in a dim place or at night.

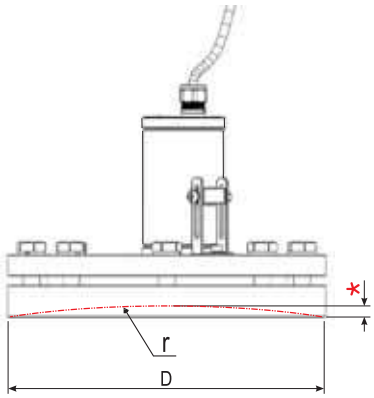
Other Certificate for Explosion Proof is available on customer's design criteria.

□□□ : STF, FTF, BSF, BRF, PTF.

SPECIFICATIONS

Connection	: Screwed End
Max. Pressure	: 40 kg/cm^2 G
Max. Temperature	: 300 deg C
Glass Material	: Tempered
Body Material	: Stainless Steel or C.S, etc., Other mat'ls are available.





SIZE	VISIBLE DIAMETER	D	r	REMARK
W-80	80	200	By Customer. If not given, not to be machined.	**Explosion Proof Certificate :** Ex d IIB T3 Class I, Group C,D.
W-90	90	210		
W-100	100	195		
W-130	130	250		
W-160	160	280		
W-200	200	330		
W-250	250	400		
W-300	300	445		The above is standard. other certificate may be substituted on request.
W-350	350	490		

SSG-WP-IL

The body of this model can be provided with a cylindrical or spherical curve to match the vessel or pipe it's being welded to. this eliminates the need for expensive saddles or special nozzles.

r : Radius to be machined.
Same as that of vessel or pipe.

$* = r - \sqrt{r^2 - (D/2)^2}$

SPECIFICATIONS

Connection	: Directly Welds.
Max. Pressure	: 30 kg/cm^2 G
Max. Temperature	: 300 deg C
Glass Material	: Tempered
Body Material	: Stainless Steel or C.S, etc., Other mat'ls are available.

SSG-LTF

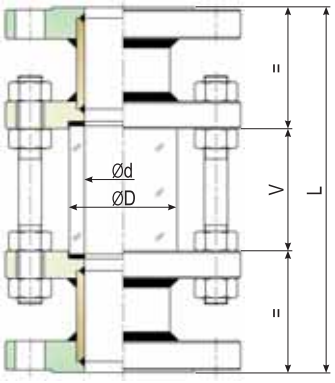
This type is suitable for observing fluids, such as grain, powder & high dense fluids, etc.

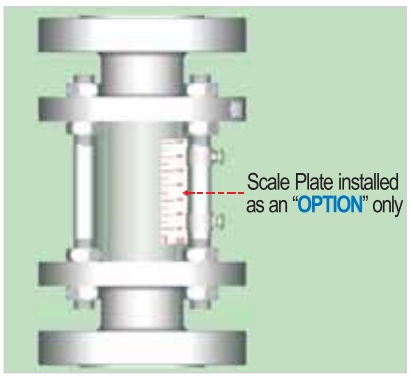
This type is equipped with scale plate as an option and it can be used as calibration pot.

OPTIONS : Scale Plate
Lining[=ETFE,PVC,P·P,Rubber].

SPECIFICATIONS

Connection	: Flanged End Threaded End
Max. Pressure	: 10 kg/cm^2 G
Max. Temperature	: 150 deg C
Glass Material	: Hard
Body Material	: Stainless Steel or C.S, etc., Other mat'ls are available.





SIZE DN	SIZE NPS	d	D	V	L	Volume Range	Volume Marking Interval [Major Scale Mark]	Graduation Interval [Minor Scale Mark]	FLOW DIRECTION
15	1/2	15	35	80	220	All Dimensions will be decided after receive the Volume Range from Customer.	If requesting the scale plate as an option, Scale Mark will be indicated on Drawings to be offer.	If requesting the scale plate as an option, Scale Mark will be indicated on Drawings to be offer.	✣
20	3/4	20	40	80	220				
25	1	25	45	80	220				
32	1 1/4	32	52	80	220				
40	1 1/2	40	60	80	220				
50	2	50	70	80	240				
65	2 1/2	65	85	80	240				
80	3	80	100	80	240				
100	4	100	125	80	260				
125	5	125	150	80	280				
150	6	150	180	80	280				
200	8	200	230	80	280				
250	10	250	280	80	280				

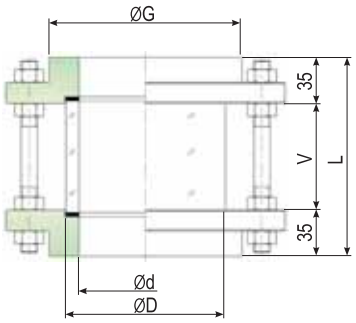
SSG-LTD

Used for observing the state of fluids, such as grain, powder & high dense fluids, etc..

OPTIONS : Ruler
A Protective Tube
[=Acrylic, Screen, SS Pipe].

SPECIFICATIONS

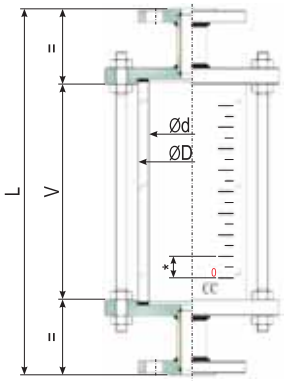
Connection	: Flanged End
Max. Pressure	: 10 kg/cm^2 G
Max. Temperature	: 150 deg C
Glass Material	: Hard
Body Material	: Stainless Steel or C.S, etc., Other mat'ls are available.





SIZE DN	SIZE NPS	G	d	D	V	L	FLOW DIRECTION
15	1/2	40	16	30	80	150	✣
20	3/4	50	21	35	80	150	
25	1	60	27	40	80	150	
32	1 1/4	67	35	50	80	150	
40	1 1/2	75	41	60	80	150	
50	2	90	53	70	80	150	
65	2 1/2	110	67	85	80	150	
80	3	120	80	100	80	150	
100	4	145	105	125	80	150	
125	5	175	130	150	80	150	
150	6	210	154	185	80	150	
200	8	260	204	235	80	150	
250	10	310	255	285	80	150	





SIZE DN	SIZE NPS	d	D	V	L	Volume Range	Volume Marking Interval [Major Scale Mark]	Graduation Interval [Minor Scale Mark]	FLOW DIRECTION
15	1/2	By Customer	By Customer	80	220	All Dimensions will be decided after receive the Volume Range from Customer.	If requesting the scale plate as an option, Scale Mark will be indicated on Drawings to be offer.	If requesting the scale plate as an option, Scale Mark will be indicated on Drawings to be offer.	↕
20	3/4			80	220				
25	1			80	220				
32	1 1/4			80	220				
40	1 1/2			80	220				
50	2			80	240				
65	2 1/2			80	240				
80	3			80	240				
100	4			80	260				
125	5			80	280				
150	6			80	280				
200	8			80	280				
250	10			80	280				

SSG-CPF

CALIBRATION POTS FOR CALIBRATING CHEMICAL PUMPS.

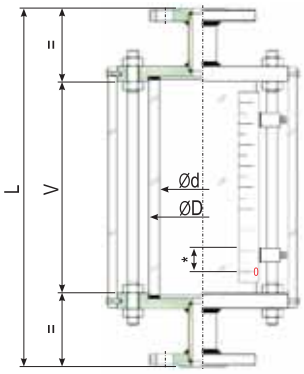
OPERATING PRINCIPLE

: This Gauges for Pump setting provide the means for determining chemical pump flow rates. the gauge is installed between the suction side of the chemical pump and the tank. the pump rate is checked by closing the valve between the tank and gauge and observing the level change in the gauge for on minute.

SPECIFICATIONS

Connection	: Flanged End Threaded End
Max. Pressure	: 10 kg/cm^2 G
Max. Temperature	: 150 deg C
Glass Material	: Hard
Body Material	: Stainless Steel or C.S, etc., Other mat'ls are available.





SIZE DN	SIZE NPS	d	D	V	L	Volume Range	Volume Marking Interval [Major Scale Mark]	Graduation Interval [Minor Scale Mark]	FLOW DIRECTION
15	1/2	By Customer	By Customer	80	220	All Dimensions will be decided after receive the Volume Range from Customer.	If requesting the scale plate as an option, Scale Mark will be indicated on Drawings to be offer.	If requesting the scale plate as an option, Scale Mark will be indicated on Drawings to be offer.	↕
20	3/4			80	220				
25	1			80	220				
32	1 1/4			80	220				
40	1 1/2			80	220				
50	2			80	240				
65	2 1/2			80	240				
80	3			80	240				
100	4			80	260				
125	5			80	280				
150	6			80	280				
200	8			80	280				
250	10			80	280				

SSG-CPF-PT

-Design utilizes a tank with shielded pot type for safety from glass breakage.
-Pot Type gauge provide a means for accurately checking the feed rates of a chemical metering pump.
-Material indicated below specification is standard. others may be substituted to meet for a chemical resistance.
-For details not shown in this papers as available, there will be specified on the drawings to be submit, incorporating your needs.

SPECIFICATIONS

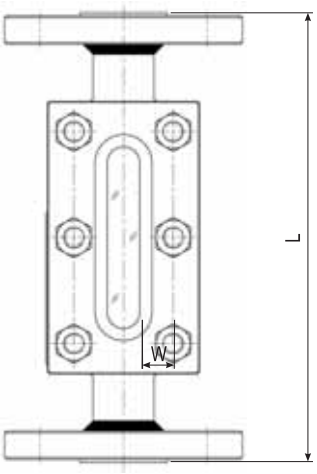
Connection	: Flanged End Threaded End
Max. Pressure	: 10 kg/cm^2 G
Max. Temperature	: 150 deg C
Glass Material	: Hard
Body Material	: Stainless Steel or C.S, etc., Other mat'ls are available.

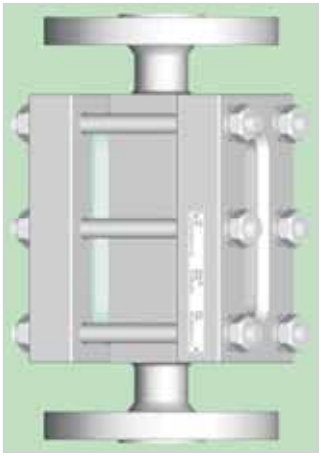
SSG-SSF

Used for high pressure & high temperature.

SPECIFICATIONS

Connection	: Flanged End
Max. Pressure	: 100 kg/cm^2 G
Max. Temperature	: 300 deg C
Glass Material	: Tempered
Body Material	: Stainless Steel or C.S, etc., Other mat'ls are available.





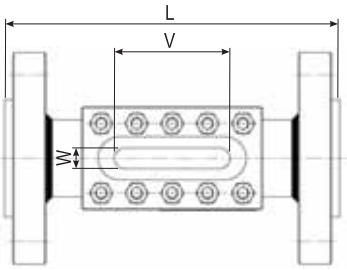
SIZE		L			H	W	FLOW DIRECTION
DN	NPS	150#	300#	600#			
15	1/2	220	220	250	90	16	
20	3/4	220	220	250	90	16	
25	1	220	220	250	90	16	

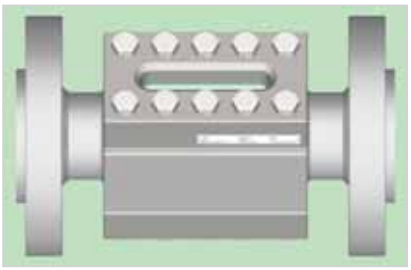
SSG-SMF

Used for high pressure & high temperature.

SPECIFICATIONS

Connection	: Flanged End
Max. Pressure	: 100 kg/cm^2 G
Max. Temperature	: 300 deg C
Glass Material	: Borosilicate Tempered.
Body Material	: Stainless Steel or C.S, etc., Other mat'ls are available.



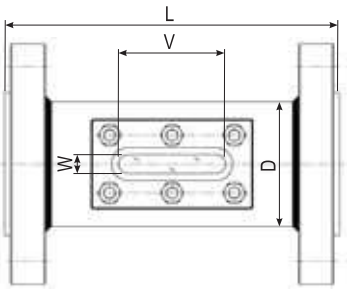


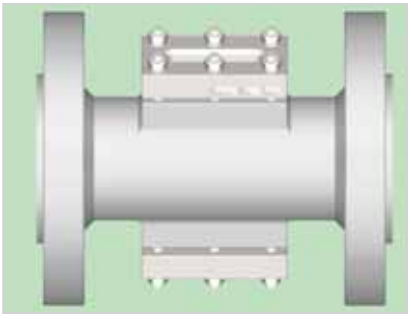
SIZE		L			V	W		D	MODEL	FLOW DIRECTION
DN	NPS	150#	300#	600#						
40	1 1/2	230	240	260	90	16			SSG-SMF	
50	2	230	240	260	90	16				
65	2 1/2	240	250	270	90	16				
80	3	270	280	300	90	16	⦿	88.9	SSG-SLF	
100	4	270	290	320	90	16	⦿	114.3		
125	5	280	300	330	90	16	⦿	141.3		
150	6	280	300	340	90	16	⦿	168.3		
200	8	300	320	360	90	16	⦿	219.1		
250	10	300	320	380	90	16	⦿	273.1		
300	12	320	340	400	90	16	⦿	323.9		
350	14	320	340	400	90	16	⦿	355.6		

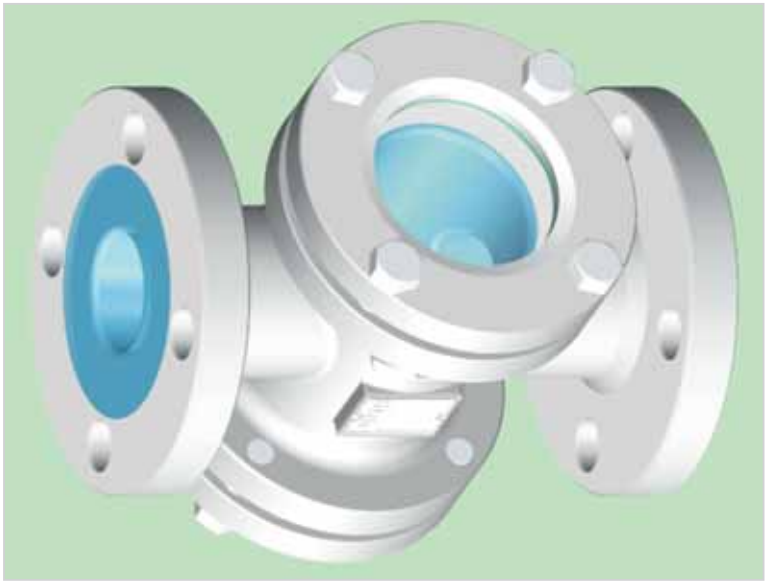
SSG-SLF

Used for high pressure & high temperature.

⦿ : **"W"** Dimensions of the Model, **SSG-5FC** may be changed on request by customer.
["W", Dimensions are available within 16mm~ 60mm].







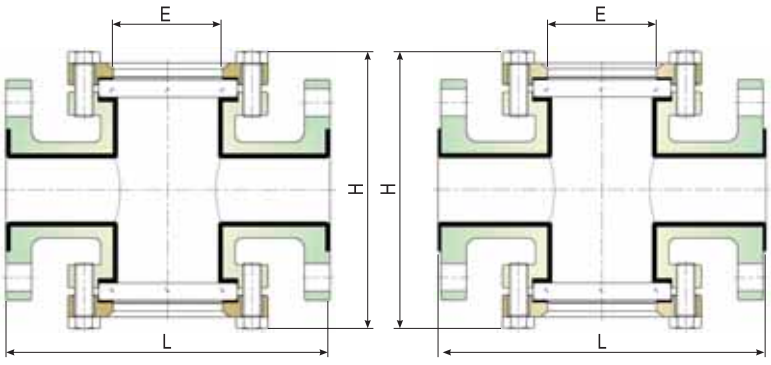
SSG-□□□-LT

This type is used for observing the high corrosive fluids by lining or coating all parts to contact with fluids.

Lining : ETFE, Rubber, PVC, P·P, etc.

Lining Thickness : 3mm as Standard.
The above may be changed on customer's design criteria.

□□□ : STF, BSF.



FLAT FACE RAISED FACE

SIZE		L		H [Approx.]		E	FLOW DIRECTION
DN	NPS	150#	300#	150#	300#		
15	1/2	160	170	118	125	40	
20	3/4	160	170	118	125	40	
25	1	170	180	118	125	40	
40	1 1/2	200	210	152	158	50	
50	2	220	230	175	180	65	
65	2 1/2	250	260	210	225	90	
80	3	270	290	230	250	105	
100	4	320	340	260	280	130	
125	5	380	410	310	330	170	
150	6	420	450	320	340	200	
200	8	500	530	395	415	260	

SPECIFICATIONS

Connection	: Flanged End
Max. Pressure	: 20 kg/cm^2 G
Max. Temperature	: 200 deg C
Glass Material	: Tempered
Body Material	: Stainless Steel or C.S, etc., Other mat'ls are available.

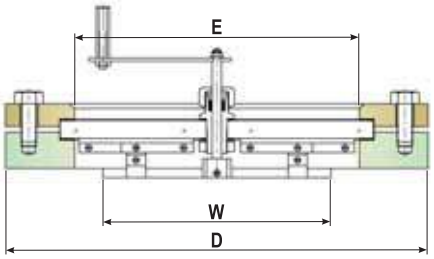
SSG-WLF

The wiper could be eliminate any slags or foreign particles produced by dust, steam or oil and cleaning the glass up.

The body of this type is made suitable for welding directly to the storage tank, tower, vessel or large pipe.

SPECIFICATIONS

Connection	: Screwed End
Max. Pressure	: 3 kg_f/cm^2 G
Max. Temperature	: 200 deg C
Glass Material	: Tempered
Body Material	: Stainless Steel or C.S, etc., Other mat'ls are available.





TYPE	D	W	E	REMARKS
W1-100	195	90	100	
W1-130	250	120	130	
W1-160	280	150	160	
W1-200	330	190	200	
W1-250	400	230	250	
W1-300	445	290	300	
W1-320	445	310	320	
W1-350	490	340	350	

SSG-WHF

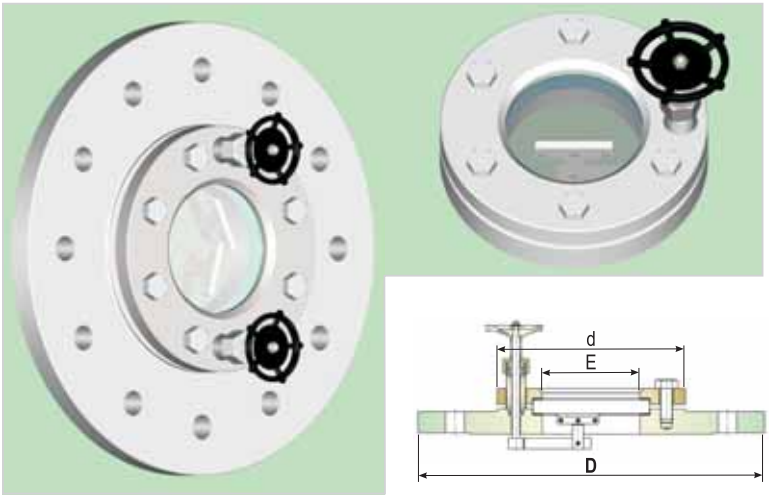
The wiper could be eliminate any slags or foreign particles produced by dust, steam or oil and cleaning the glass up.

The body of this type is made suitable for welding directly to the storage tank, tower, vessel or large pipe.

SAM IL recommend this model that there is for conditions no pressure or very lower pressure.

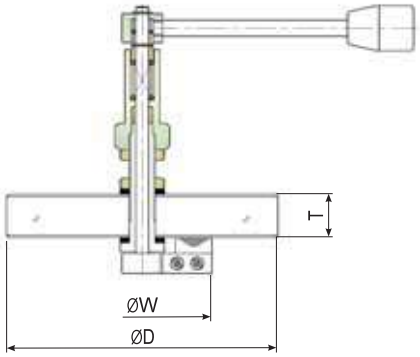
SPECIFICATIONS

Connection	: Screwed End
Max. Pressure	: 30 kg_f/cm^2 G
Max. Temperature	: 250 deg C
Glass Material	: Tempered
Body Material	: Stainless Steel or C.S, etc., Other mat'ls are available.



TYPE	D	d	E	REMARKS
W2-100	⊙	195	100	⊙ as per customer spec.
W2-130	⊙	250	130	
W2-160	⊙	280	160	
W2-200	⊙	330	200	
W2-250	⊙	400	250	
W2-300	⊙	445	300	
W2-350	⊙	490	350	





TYPE	D	W	T	REMARKS
W3-100	125	90	15	
W3-130	155	120	15	
W3-160	185	150	19	
W3-200	225	190	19	
W3-250	275	240	19	
W3-300	330	290	19	
W3-320	350	310	19	
W3-350	380	340	19	

SSG-WLG

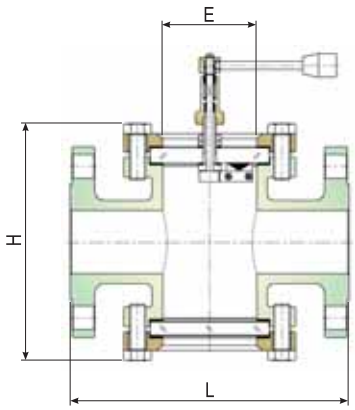
The body of this model may be made by customer or will be made and offered already by **SAM IL** earlier. Therefore this model is offered for replacement of wiper glass assembly.

when you have placing an order for this model, please refer to below dimensions for wiper & glass assembly.

SPECIFICATIONS

Connection
Max. Pressure
Max. Temperature
Glass Material





TYPE	L	H	E	FLOW DIRECTION
W4-15	160	118	40	
W4-20	160	118	40	
W4-25	170	118	40	
W4-32	200	152	50	
W4-40	200	152	50	
W4-50	220	175	65	
W4-65	250	210	90	
W4-80	270	230	105	
W4-100	320	260	130	
W4-125	380	310	170	
W4-150	420	320	200	
W4-200	500	395	260	

SSG-WAF

Used for observing the fluid by cleaning any slag or dust.
This type is used in the piping lines over 3"[inch]

A convenience for continuous cleaning of the glass without the need to dismantle the sight glass. Permits clear viewing of the vessel contents in applications where dirt, fogging or residue on the inside glass presents a problem.

SPECIFICATIONS

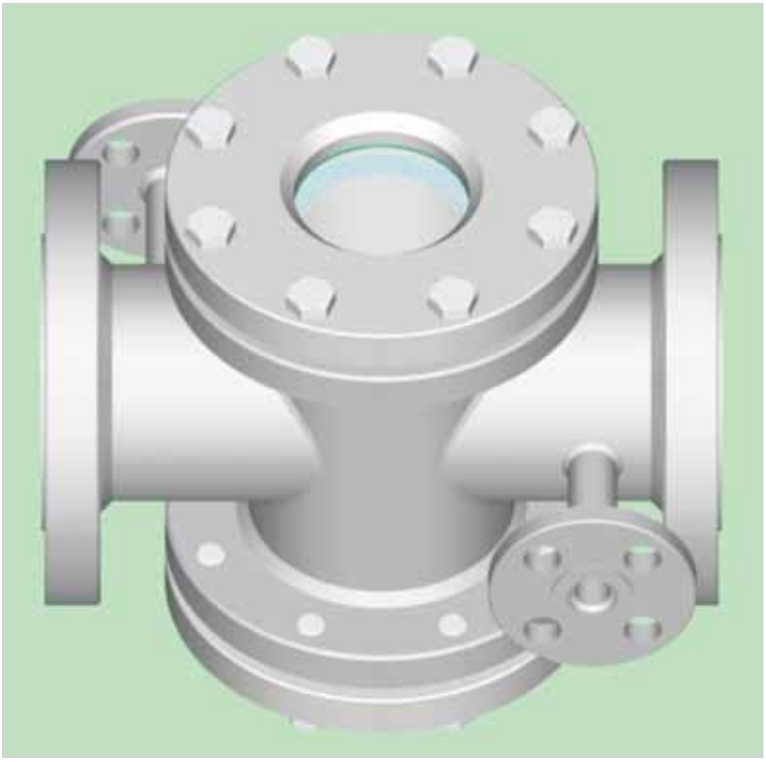
Connection	: Flanged End
Max. Pressure	: 3 kg/cm^2 G
Max. Temperature	: 200 deg C
Glass Material	: Tempered
Body Material	: Stainless Steel or C.S, etc., Other mat'ls are available.

SSG-□□□-JT

This Type is used for observing the state of highly congealable or ebullient liquid.
for congealed liquid, it is in-flow hot media and for ebullient liquid, in-flow cold media through the jacket line.

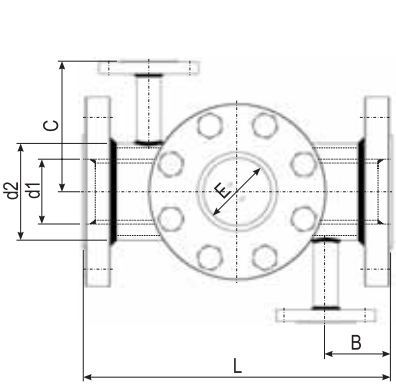
" **B & B'** " Dimensions are based on 1/2" Nozzle.

□□□ : STF, FTF, BSF, BRF, PTF.

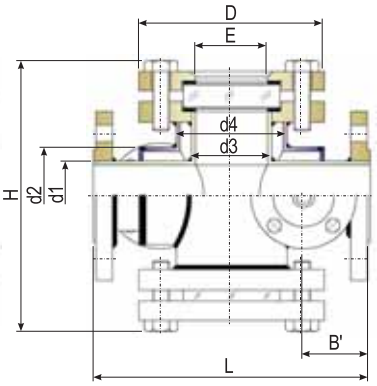


SPECIFICATIONS

Connection	: Flanged End
Max. Pressure	: 40 kg/cm^2 G
Max. Temperature	: 300 deg C
Glass Material	: Tempered
Body Material	: Stainless Steel or C.S, etc., Other mat'ls are available.

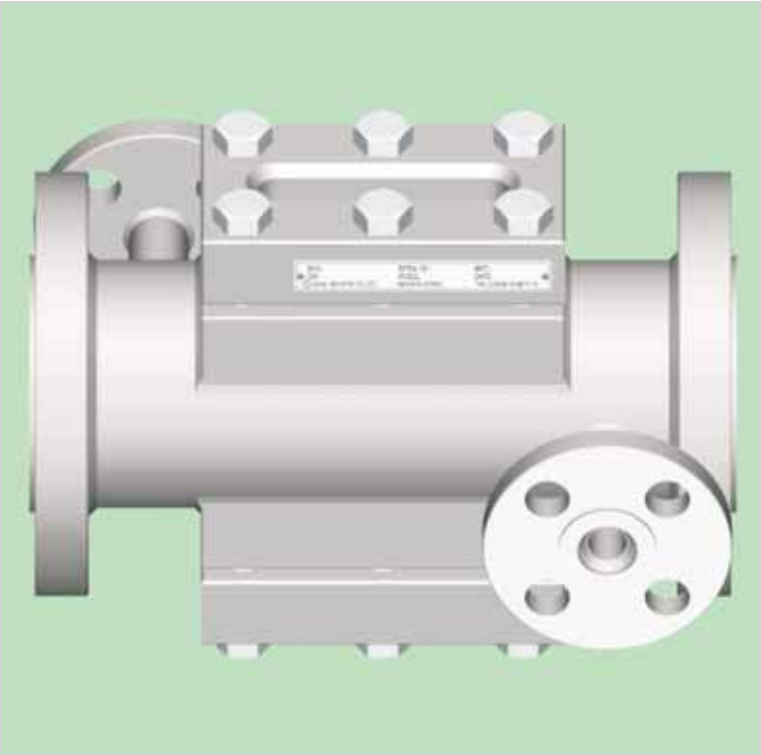


FULL JACKET TYPE



SEMI JACKET TYPE

FLANGE SIZE		LINE SIZE		L		d1	d2	d3	d4	E	D	H	C		B		B'	
Full Jacket	Semi Jacket	DN	NPS	150#	300#								150#	300#	150#	300#	150#	300#
20 [3/4]	15 [1/2]	15	1/2	200	230	1/2	1 1/4	1	2	25	125	190	80	90	50	50	60	60
25 [1]	20 [3/4]	20	3/4	200	220	3/4	1 1/2	1	2	25	125	190	95	95	50	50	60	60
40[1 1/2]	25 [1]	25	1	220	240	1	2	1 1/2	2 1/2	40	140	190	100	110	55	55	60	60
50 [2]	40[1 1/2]	40	1 1/2	250	270	1 1/2	2 1/2	2	3	50	155	220	110	115	55	60	60	65
65[2 1/2]	50 [2]	50	2	280	300	2	3	2 1/2	3 1/2	65	175	240	125	130	60	65	65	70
80 [3]	65[2 1/2]	65	2 1/2	320	340	2 1/2	3 1/2	3	4	80	185	270	130	140	60	65	75	80
100 [4]	80 [3]	80	3	350	370	3	4	4	5	100	210	305	150	165	60	70	75	85
125 [5]	100 [4]	100	4	400	420	4	5	5	6	125	240	325	160	175	65	75	80	90
150 [6]	125 [5]	125	5	450	470	5	6	6	8	150	290	375	175	195	65	75	80	90
200 [8]	150 [6]	150	6	500	520	6	8	8	10	200	340	430	210	225	65	80	90	95
250[10]	200 [8]	200	8	550	570	8	10	10	12	250	400	505	240	260	70	85	90	105



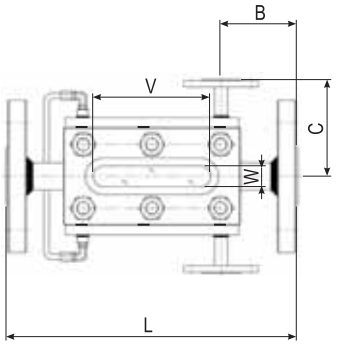
SSG-□□□-JT

This Type also is equipped with Jacket line.

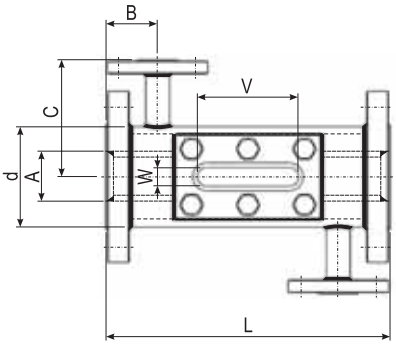
"**B**" Dimensions are based on 1/2" Nozzle.

Used for more higher pressure than Models on Page 14.

□□□ : STHF, STMF, STLF.



DN65[2 1/2"] & BELOW



DN80[3"] & ABOVE

SPECIFICATIONS

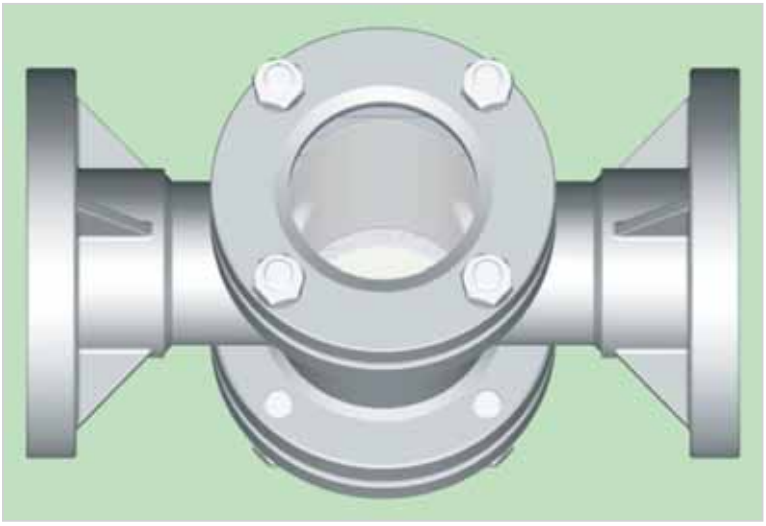
Connection	: Flanged End
Max. Pressure	: 100 kg/cm^2 G
Max. Temperature	: 300 deg C
Glass Material	: Borosilicate
Body Material	: Stainless Steel or C.S, etc., Other mat'ls are available.

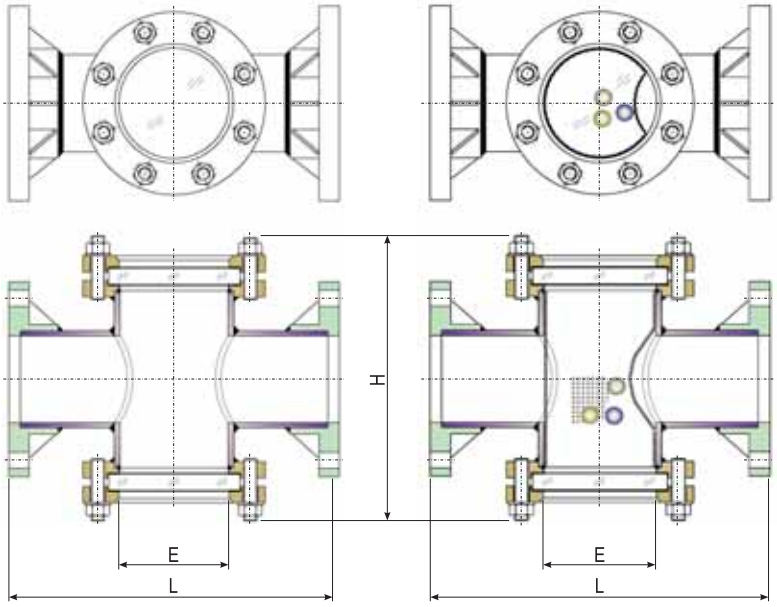
FLANGE SIZE		LINE SIZE[A]		L			d	V	W	C			B			FLOW DIRECTION
DN	NPS	DN	NPS	150#	300#	600#				150#	300#	600#	150#	300#	600#	
15	[1/2]	15	1/2	240	250	260	1/2	90	16	80	90	95	50	50	55	
20	[3/4]	20	3/4	240	250	260	3/4	90	16	95	95	100	50	50	55	
25	[1]	25	1	240	250	260	1	90	16	100	110	115	55	55	60	
40	[1 1/2]	40	1 1/2	250	270	300	1 1/2	90	16	110	115	120	55	60	65	
50	[2]	50	2	250	270	300	2	90	16	125	130	135	60	65	70	
65	[2 1/2]	65	2 1/2	270	300	320	2 1/2	90	16	130	140	145	60	65	70	
80	[3]	80	3	300	320	350	3	90	16	150	165	170	60	70	75	
100	[4]	100	4	300	320	350	4	90	16	160	175	180	65	75	80	
125	[5]	125	5	320	340	370	5	90	16	175	195	200	65	75	80	
150	[6]	150	6	320	340	370	6	90	16	210	225	230	65	80	85	
200	[8]	200	8	350	370	400	8	90	16	240	260	265	70	85	90	

SSG-□□□-PF

In order to compatible with some fluids or line material, Sight Glass Type which See through type, Ball type are made of PVC, P·P.

□□□ : STF, BSF, BRF.

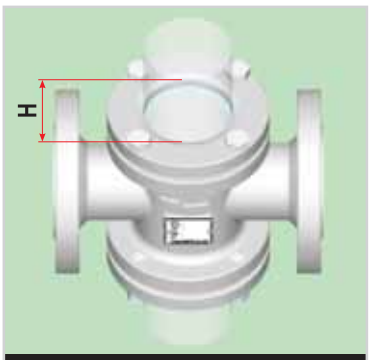




SIZE DN	SIZE NPS	L	H [Approx.]	E	FLOW DIRECTION
15	1/2	180	150	40	
20	3/4	180	150	40	
25	1	200	150	40	
32	1 1/4	220	240	50	
40	1 1/2	220	240	50	
50	2	250	270	65	
65	2 1/2	300	280	90	
80	3	350	290	105	
100	4	400	320	130	
125	5	430	360	170	
150	6	450	420	200	
200	8	550	450	260	

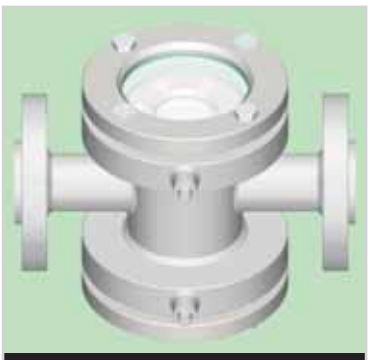
SPECIFICATIONS

Connection
Max. Pressure
Max. Temperature
Glass Material
Body Material



SSG-□□□-NF

□□□ : STT,STF,FTT,FTF,BSF,BRT,BRF, PTT,PTF



SSG-□□□-DW

□□□ : STF,FTF,BSF,BRF,PTF

SAM IL INDUSTRY CO.,LTD.



SSG-□□□-SP

□□□ : STT,STF,FTT,FTF,BSF,BRT,BRF, PTT,PTF



SSG-□□□-WC

□□□ : STT,STF,FTT,FTF,BSF,BRT,BRF, PTT,PTF

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□□□ : STT,STF

SSG-□□□-DN



SSG-BCT

SPECIAL TYPE MODELS

SSG-□□□-NF:
This is equipped with non- frosting[=frost free] and used for observing the fluid of extremely low temperature.

NO.	H	Temp.[°C]
F1	60	0 ~ -20
F2	90	-21 ~ -45
F3	110	-46 ~ -100
F4	150	-101 ~

SSG-□□□-DW:
For safety of observer, double window installed for dangerous fluids, such as toxic, poisonous matters, etc.
if a glass fails, the cause in most instances be traced to one or a combination of the following factors :
a stress concentration, thermal stress or shock, erosion or corrosion and mechanical damage. The double window design provides extra protection against these causes of failure.

SSG-□□□-SP:
For safety of observer, Iron screen installed between glass and cover.

SSG-□□□-WC:
For safety of observer, The safety cover installed on the glass cover.

SSG-□□□-DN:
useful for observing the fluid flow at small flow and low velocity flow.

SSG-BCT : As this type is used for preventing reversal flows, it has a function of the check valve.

- Max. Pressure : 30 kg/cm^2 G
- Max. Temperature : 200 deg C.

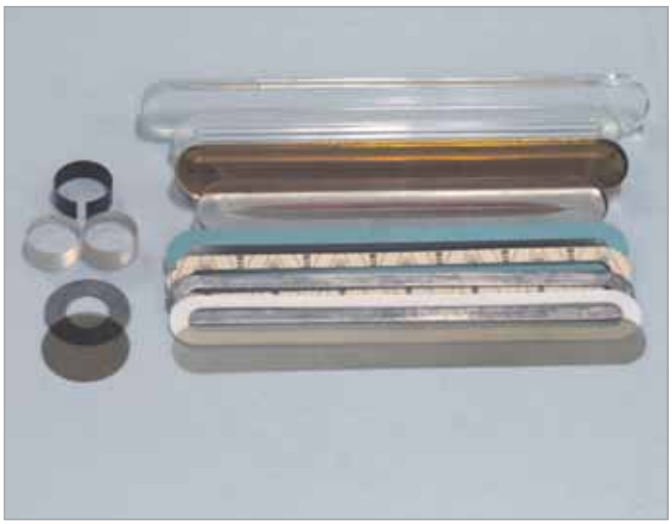
MEMO :

GLASS FOR HIGH PRESSURE

Glass & Mica for level gauge & Sight Glass.

SPECIFICATIONS

Glass Material	: Borosilicate Alluminasilicate
Max. Pressure	: 350 kgf/cm2 G
Max. Temperature	: 560 deg C
Applied Models	: Level Gauges Sight Glasses : SSG-SSF,SMF,SLF



GLASS FOR MEDIUM PRESSURE

Mica & Glass for Sight Glass

SPECIFICATIONS

Glass Material	: Tempered
Max. Pressure	: 40 kgf/cm2 G
Max. Temperature	: 300 deg C
Applied Models	: SSG-STT,STF, FTT,FTF, BST,BSF BRT,BRF PTT,PTF WP-IL,WHF ,BCT



GLASS FOR LOW PRESSURE

Glass for Sight Glass

SPECIFICATIONS

Glass Material	: Hard Glass Tempered
Max. Pressure	: 10 kgf/cm2 G
Max. Temperature	: 150 deg C
Applied Models	: SSG-LTF,LTD CPF,CPF-PT WLF,WLG WAF



DATA SHEET

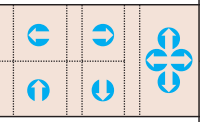
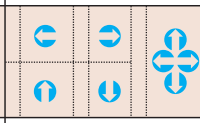
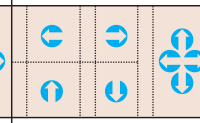
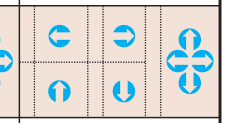
SINCE 1979
SAM IL INDUSTRY CO.,LTD.

SIGHT GLASS

NO.	BY	DATE	REVISION

SHEET :	OF
SPEC. NO.	REV.
CONTRACT	DATA
REQ. P.O.	

BY	CHK'D	APPR.

					1	2	3	4
GENERAL		1	Item No.		1	2	3	4
	✶	2	Tag No.					
	✶	3	Q'TY					
		4	Model No.					
FLUID DATA	✶	5	Fluid Name					
	✶	6	Press.@ Oper. [kg/cm^2 G]					
	✶	7	Temp.@ Oper. [°C]					
	✶	8	Press.@ Design[kg/cm^{2}G]					
	✶	9	Temp.@ Design[°C]					
		10	Operating Viscosity[cp]					
		11	Nor. Flow[m^3/hr]					
		12	Max. Flow[m^3/hr]					
SIGHT GLASS	✶	16	Connection Size					
	✶	17	Rating					
	✶	18	Construction [Hor. / Ver.]					
	✶	19	Material	Body				
				Flapper				
				Ball				
				Glass				
				Gasket				
	✶	20	Flow Direction					
		21	Others					

REMARK : "✶" MARKED COLUMNS SHOULD BE FILLED UP BY CUSTOMER NECESSARILY [OR IF POSSIBLE].
NOTE :

ENQUIRY- / ORDER SHEET FOR PRODUCTS

TO : SAM IL INDUSTRY CO.,LTD.	FROM :
WEB PAGE : www.samilind.co.kr	WEB PAGE :
E - MAIL : samilind79@samilind.co.kr	E - MAIL :
TEL NO. : 82-2-2618-2000 ~4, 82-32-819-9671 ~ 7	TEL NO. :
FAX NO. : 82-32-819-9693 ~4	FAX NO. :

We are pleased to receive this enquiry- / order sheet for products from your company.

SPECIAL REQUIREMENTS :

OUTLINE DRAWING [IF NECESSARY] :

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HEAD OFFICE & FACTORY

405-848
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TEL : 82-2-2618-2000 ~ 4
82-32-819-9671 ~ 7
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