



Flange double-cover sight glasses



Flange double-cover sight glasses

Application:

The flow indicators are used for optical control of fluids and gases, for horizontal and vertical pipe lines.

Operating conditions:

Working pressure: 0.6bar~16bar

Working temperature: 120°C or 260°C

Installation:

Optional. Take care of flow direction

Standard:

GB,DIN,ANSI,JIS,BS

Material:

SS/CS

Indicator type:

Rotator-paddlewheel, Agitating balls, Flapper, wiper

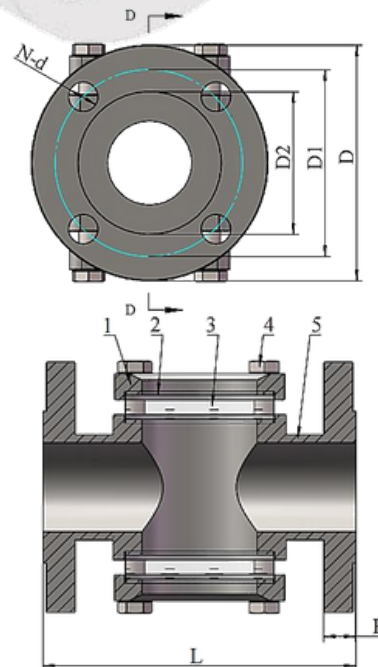
Medium:

water, oil, gas and chemical acid, salty liquid or gas

Specification:

Size	Length		Flange				
	L short	L long	D	D1	D2	N-b	F
DN 1/2"	120	130	90	60.5	35	16-4	11
3/4"	125	150	100	70	43	16-4	13
1"	125	160	110	79.5	51	16-4	14
1-1/4"	160	180	120	89	63.5	16-4	16
1/1/2"	160	200	127	98.5	73	16-4	17
2"	190	230	152	120.5	92	19-4	19
2-1/2"	205	290	178	139.5	105	19-4	24
3"	240	310	190	152.5	127	19-4	24
4"	240	350	229	190.5	157	19-8	24
5"	320	400	254	216	186	23-8	24
6"	320	450	279	241.5	216	23-8	25
8"	320	480	343	298.5	270	23-8	29

Note: Customizable size



Other Type:

PTFE lined anti-corrosion	0-4Mpa Pressure class	4-7Mpa Pressure class	7-16Mpa Pressure class	16-42Mpa Pressure class
				

Caliber	DN15 ~ DN500
Production Process	Integral Casting/ Welding
Shell material	carbon steel, stainless steel, glass reinforced plastic, carbon steel lined with fluorine, FRPP plastic, PVC, PVDF+FPR, TI
Window material	sodium-calcium glass, high borosilicate glass, quartz glass and plexiglass, Aluminosilicate Glass
Sealing ring material	nitrile rubber, polytetrachloroethylene, graphite composite
Workingtemperature	the maximum allowable temperature of sodium-calcium glass is 150°C; Themaximumallowabletemperatureofborosilicateglassis280°C. The maximum allowable temperature of quartz glass is 550°C.
Operatingpressure	PN0.6~2.5Mpa (Max2500LB)
Connectionmode	Flange/Thread/Tri-clamp

Sight glass are available in five styles designed to accommodate various mounting positions, fluid characteristics, flow rates and directions:

1. Steam jacketed, jacketed water cycle: the main pipe plus the jacket layer, inner pass steam or water, used to maintain the temperature of the measured medium in the measurement cylinder, to prevent the measured medium temperature change occurs due to freezing, ice, etc.
2. Plain Style - May be installed in any position to observe fluid flow in any direction. These style indicators are usually employed to detect either the presence or absence of solutions, or to observe fluids for turbulence, color or clarity.
3. Drip Tube Style - This style is well suited for vertical lines with downward flow direction. These units are particularly recommended for applications characterized by low or intermittent flow rates, such as distillation processes.
4. Flapper Style - Recommended for monitoring either horizontal or vertical lines with upward flow. The flapper position indicates current flow rate. Flapper style indicators are the appropriate choice for use with clear and semi-opaque solutions.
5. Rotator Style - This style indicator may be installed in any position to indicate flow in any direction. The visibility of rotor motion makes this style particularly well-suited for monitoring clear, translucent or dark solutions.

Thread/Clamp Transparent Sight Glasses

Caliber: DN15~DN50 1/2", 3/4", 1", 1 1/4", 1-1/2", 2"

Pressure: PN0.6~1.6MPa

Temperature: -30°C~300°C,

Standard: GB, DIN, ANSI, JIS, BS

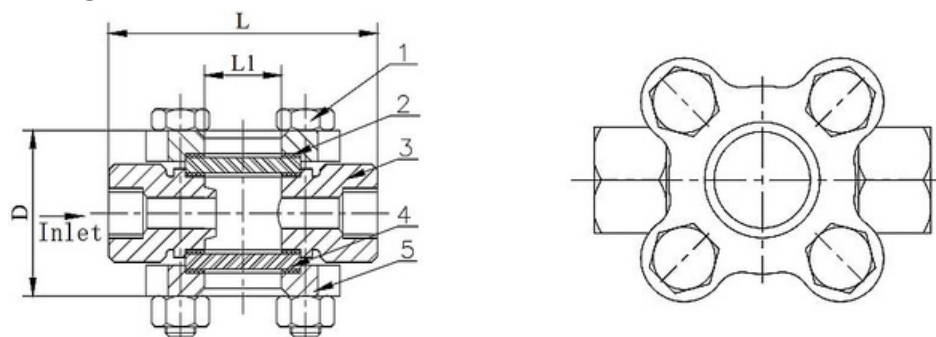
Material: CS/SS

Indicator type: Rotator-paddlewheel, Agitating balls, Flapper, Throat plat, scale

Specification:

DN	SIZE	L	L1	D
	1/2"	100	35	70
	3/4"	100	35	70
	1" 1-	100	35	70
	1/4"	120	42	80
	1-1/2"	120	42	80
	2"	160	50	100

Drawing :



Other Type:

Flapper Style	Rotator Style	Float type	Brass	

Flange sight glasses

Plain ISEN-FS-N	with Scraper ISEN-FS-K	With light ISEN-FS-L	Rectangle ISEN-FS-R	Oval type ISEN-FS-O
				

Model: ISEN-FS-N

◆ Flange sight glasses is comprised of stainless steel frame and tempered/borosilicate glass. Through it, operator can observe the flowing of the media clearly and precisely in the fields of food, cosmetics, pharmaceutical and fine chemicals industries.

Technical specifications

- ◆ Size from 2"-12"-DN50-DN300
- ◆ Assemble flange with glass by using hexagon socket bolts
- ◆ Gasket material: PTFE in accordance with FAD 177.1600
- ◆ Material: CS, SS304, SS316L
- ◆ Max. Temperature: -20°C~+200°C
- ◆ Max. Pressure: 10bar

Model: ISEN-FS-K

ISEN-FS-K model W wipers may be used on ARCHON sight glasses to effectively clean the inside surface of the lens. Wipers are used to prevent crystallization and to keep the lens free of dust, dirt or powder buildup. W wipers are mounted through a hole in the center of the sight glass lens.

Technical specifications

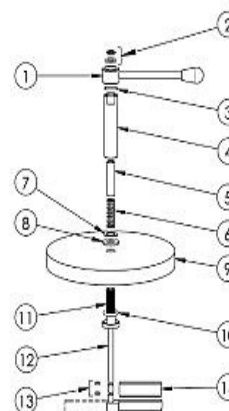
Blade: PTFE, Silica gel

OPERATING CONDITIONS

Maximum internal pressure is 5 to 10 Bar, depending on glass diameter. Vacuum values are available on request. Maximum temperature is 200°C.

Item: Description:

1. Handle Arm
2. Circlip
3. Fixation pin
4. Distance piece
5. Inner bushing
6. Tension spring
7. Spring Washer
8. Gasket
9. Glass disc
10. O-ring
11. Fixation bushing
12. Wiper blade holder
13. O-rings for holder
14. Wiper blade



Model: ISEN-FS-L

Application:

ISEN-FS-L Series flange type sight glass is widely used in food, wine-producing, beverage and pharmacy industries etc. For it is convenient to view the condition of equipment running state and system work state.

All stainless-steel mirror lamp DC 24V power supply No detention, zero dead angles, strong light, white cold light source, waterproof, also can choose explosion-proof design.

ISEN-FS-L-01

ISEN-FS-L-01

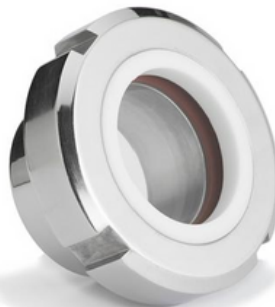
ISEN-FS-L-01



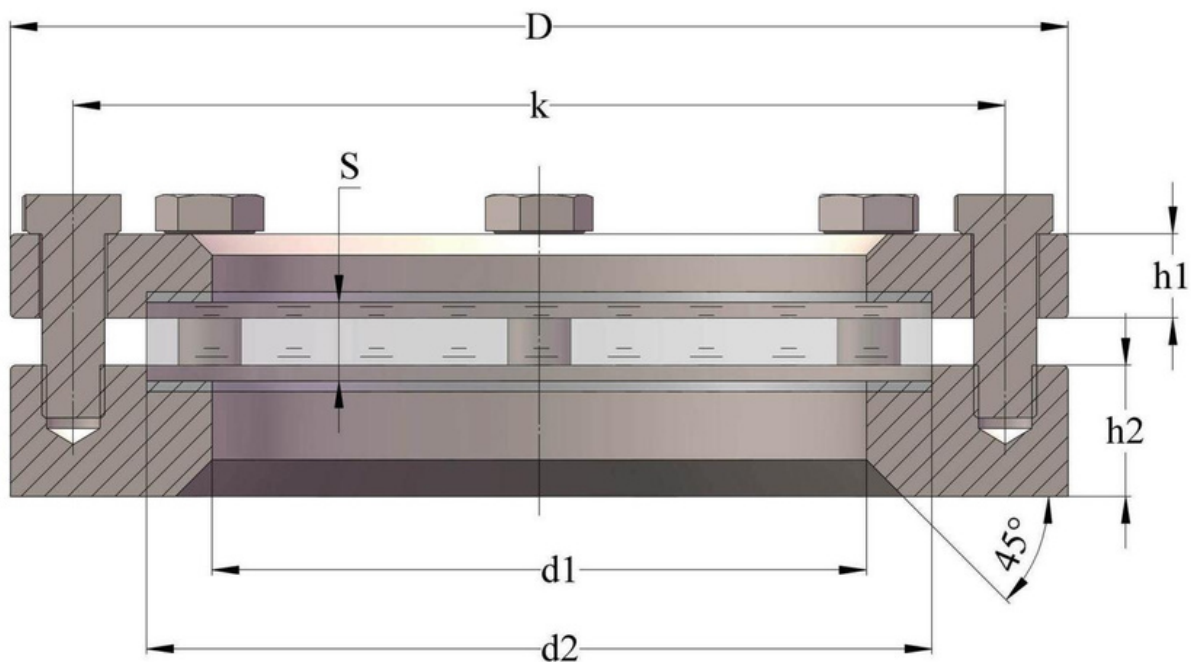
we are a strong manufacture and all products size can according to your requirement customizable

Standard Design:

Parameters	
Size	2"-12", DN50-DN300 or others upon requirement
Standards	DIN, SMS, ISO / IDF, BS / RJT, ASME / BPE
Material	SS304/SS316L/CS
Availabe connection	Welding/Flange /or on order
Seal Material	Silicone, EPDM, Viton, NBR
Glass	Borosilicate(Pyrex) temperedglass -
working temperature	20°C ~ +200°C
Pressure range	1bar~10bar

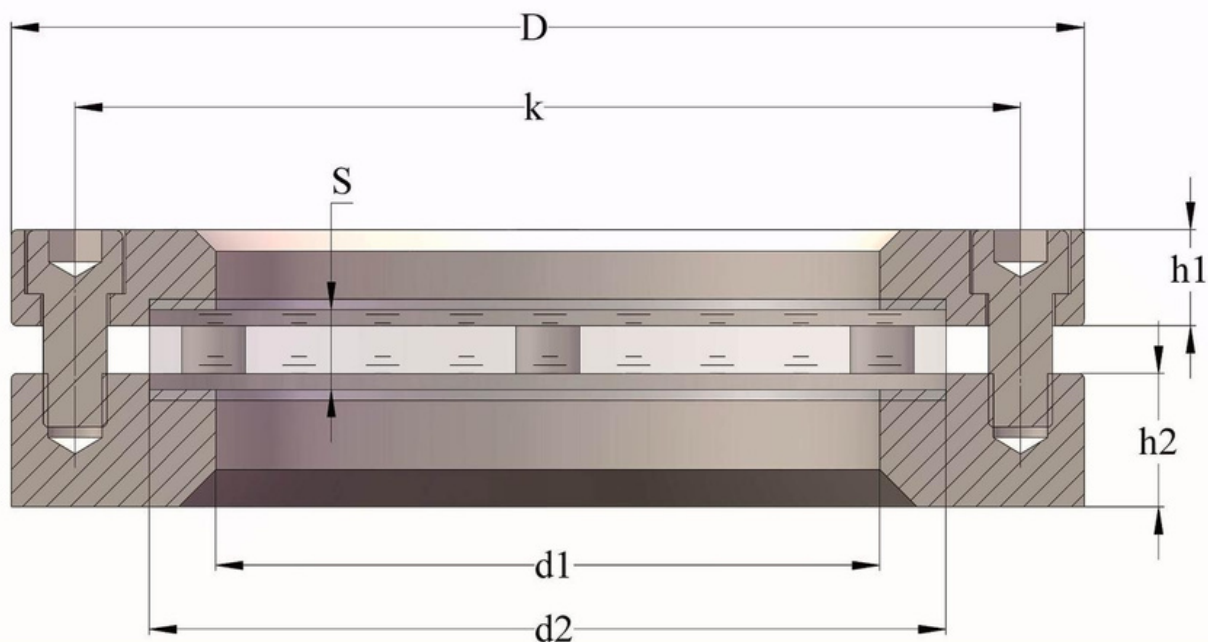


Specification:



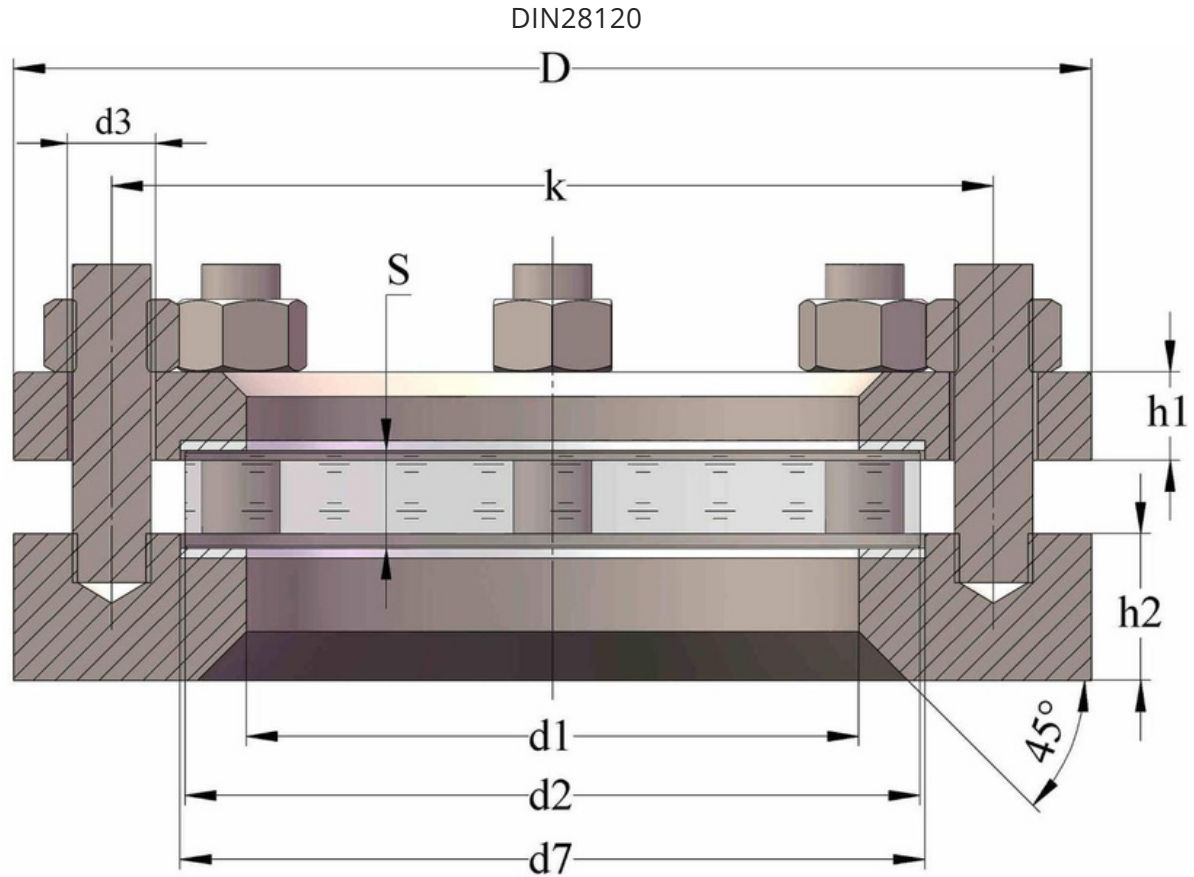
Size		1	2	3	4	5	6	7	8	9	10	11
Pressure rating	bar	5	5	5	5	5	5	5	4	4	3	3
Viewing diameter	d1	40	50	80	100	125	150	175	200	225	250	300
Sight glass disc	d2	60	60	89	114	150	175	200	225	250	275	325
	S(TSL)	10	10	12	12	15	15	15	15	19	19	19
	S(TBS)	10	10	12	12	20	20	25	25	20	20	30
Flanges	D	100	100	150	177	202	228	254	280	304	345	405
	h1	16	16	16	16	16	16	16	16	19	19	19
	h2	25	25	25	25	25	25	25	25	30	30	30
Bolts	k	78	78	127	152	178	204	229	256	280	304	366
	No.	4	4	4	4	8	8	8	8	8	8	8
	Size	M12	M12	M12	M12	M12	M12	M12	M12	M12	M12	M12
	Length	30	30	30	30	35	35/45	35/45	35/45	40/45	40/45	45/55

Note: Customizable size



Size		1	2	3	4	5	6	7	8
Nominal bore	DN	40	50	80	100	125	150	200	300
Viewing diameter	d1	50	80	100	125	150	175	225	300
Sight glass disc	d2	70	100	125	150	175	200	250	325
	S	10	10	10	10	10	10	10	15
Flanges	D	110	140	165	190	215	240	290	370
	h1	10	10	10	10	10	10	10	15
	h2	15	15	15	15	15	15	15	20
Bolts	k	90	120	145	170	195	220	270	345
	No.	4	4	8	8	8	8	8	12
	Size	M6	M6	M6	M6	M6	M6	M6	M8

Note: Customizable size



Size		1	2	3	4	5	6
Nominal bore	DN	50	80	100	125	150	200
Pressure rating	bar	10/16	10/16	6/10/16	6/10/16	6/10/16	6/10
Viewing diameter	d1	80	100	125	150	175	225
Sight glass disc	d2	100	125	150	175	200	250
	S	15/15	15/20	20/20/25	20/20/25	20/25/30	25/30
Flanges	D	165	200	220	250	285	340
	k	125	160	180	210	240	295
	h1	16/16	20/20	18/22/22	18/25/25	18/30/30	20/35
	h2	30	30	30	30	36	36
Bolts or studs and nuts	No.	4	8	8	8	8	8
	Size	M16	M16	M16	M16	M20	M20
	d3	18	18	18	18	22	22
Seals	d1	80	100	125	150	175	225
	d7	102	127	152	177	202	252
Tightening torque for bolts or nuts, lubricant factor/μ 0.1	Nm	28/32	20/23	26/30	32/34	47/54	63

Note: Customizable size

Model: ISEN-FS-R/O

Description:

Model ISEN-FS-R/O 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.

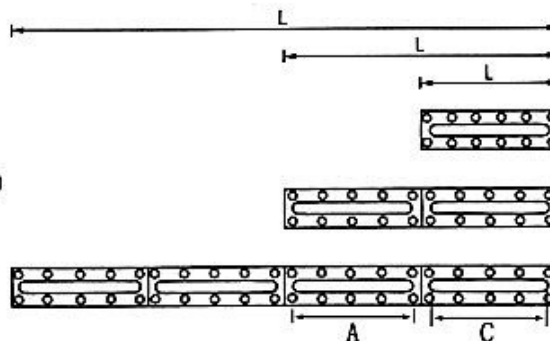
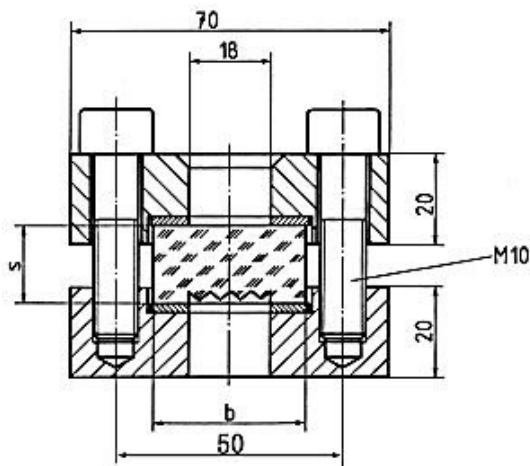
- 1) Suitable pressure: 0.6MPa, 1.6Mpa or other
- 2) Working temperature: $\leq 250^{\circ}\text{C}$
- 3) Material: Carbon steel, Stainless steel, Titanium or other

Options and accessories:

R/O sight glasses can be supplied with the following options and accessories:

Reflex lens: with refractive prisms for improved visibility of liquid level only.

Transparent lens: to observe color, clarity and level of liquid. Also used to view the interface of two fluids



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 *	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
Width*thick =34*17	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

Note: Customizable size

Tubular sight glass indicator

Application and features:

Tubular Sight Glass

Tubular Sight Glass is used for monitoring flow in pipelines for a wide range of applications. These Sight Flow Indicators are bi-directional type and easy to install in any orientation. Full view type Sight Glass Flow Indicators is widely used for corrosive chemicals, acids and colored liquids.

Tubular Sight Glass installed vertically or horizontally in the middle of any kind of non transparent pipeline and are very convenient & easy to observe the flow from any direction.

ISEN-TS-F

ISEN-TS-SF

ISEN-TS-S

ISEN-TS-A

ISEN-TS-FF



Advantages:

Large 360° full viewing area.

double wall construction for maximum safety Full flow design (no corners to collect debris) Wide choice of select plastic materials to assure maximum chemical compatibility Little or no maintenance required.

No special hardware required for installation (completely assembled and pre-tested) Available with elastomers or PTFE seals to handle aggressive chemicals. With full view window of toughened glass tube

Description:

tubular sight glasses These sight glass utilize a double wall

Nominal Diameter: DN15-250mm

Pressure: PN-0.6~10MPa

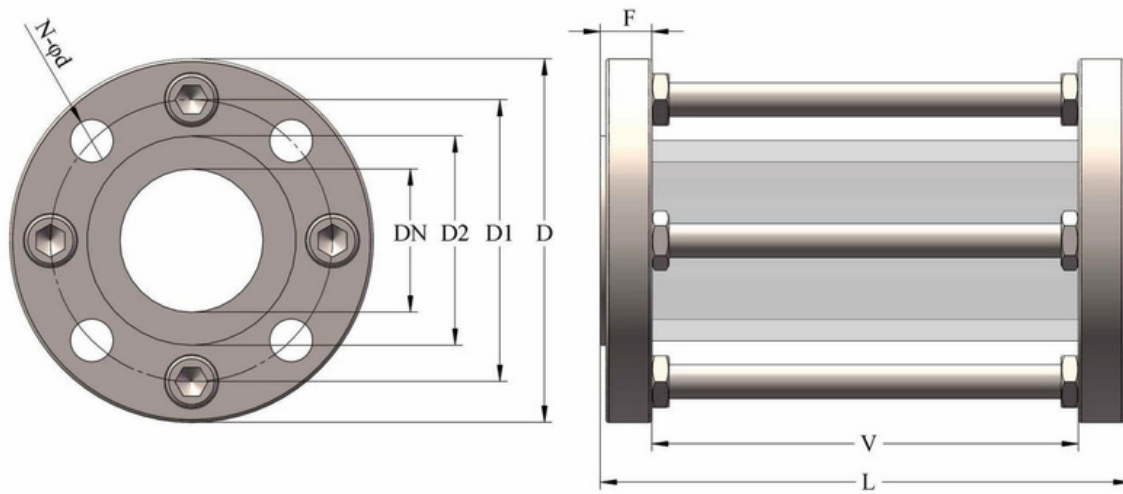
Temperature: -10°C-300°C

Standard: GB, DIN, ANSI, JIS, BS

Material : PPPVC, carbon steel, stainless steel or other.

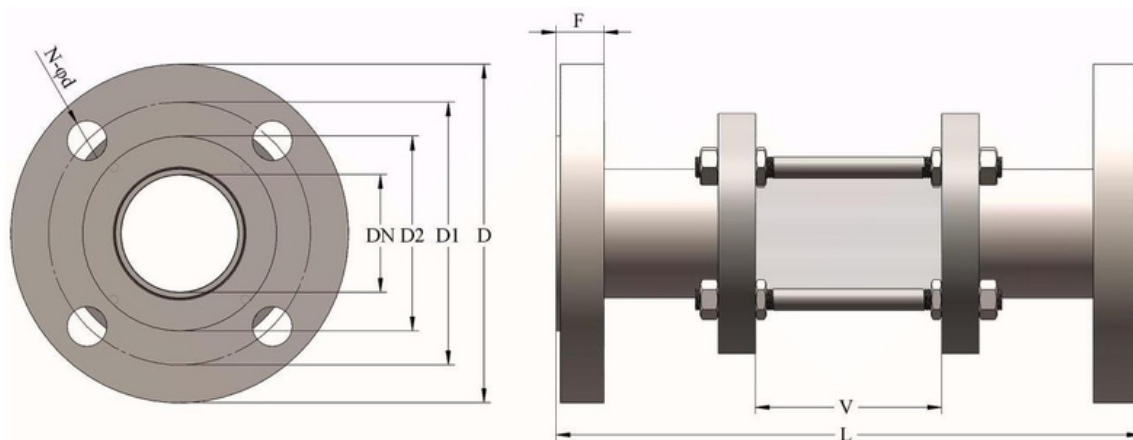


Specification:



Nominal bore		Length		DIN Flanges					ANSI Flanges				
Inch	DN	L	V	D	D1	D2	F	N-φd	D	D1	D2	F	N-φd
1/2	15	120	L-F*2	95	65	45	14	4-φ14	90	60.3	34.9	9.6	4-φ16
3/4	20	120		105	75	58	16	4-φ14	100	69.9	42.9	11.2	4-φ16
1	25	120		115	85	68	16	4-φ14	110	79.4	50.8	12.7	4-φ16
1-1/4	32	120		140	100	78	18	4-φ18	115	88.9	63.5	14.3	4-φ16
1-1/2	40	120		150	110	88	18	4-φ18	125	98.4	73	15.9	4-φ16
2	50	120		165	125	102	19	4-φ18	150	120.7	92.1	17.5	4-φ19
2-1/2	65	120		185	145	122	20	8-φ18	180	139.7	104.8	20.7	4-φ19
3	80	120		200	160	138	20	8-φ18	190	152.4	127	22.3	4-φ19
4	100	140		220	180	158	22	8-φ18	230	190.5	157.2	22.3	8-φ19
5	125	140		250	210	188	22	8-φ18	255	215.9	185.7	22.3	8-φ22
6	150	150		285	240	212	24	8-φ22	280	241.3	215.9	23.9	8-φ22
8	200	150		340	295	268	26	12-φ22	345	298.5	269.9	27	8-φ22
10	250	160		405	355	320	29	12-φ26	405	362	323.8	28.6	12-φ25
12	300	160		460	410	378	32	12-φ26	485	431.8	381	30.2	12-φ25

Note: Customizable size



Nominal bore		Length		DIN Flanges					ANSI Flanges				
Inch	DN	L	V	D	D1	D2	F	N-φd	D	D1	D2	F	N-φd
1/2	15	250	100	95	65	45	14	4-φ14	90	60.3	34.9	9.6	4-φ16
3/4	20	250	100	105	75	58	16	4-φ14	100	69.9	42.9	11.2	4-φ16
1	25	250	100	115	85	68	16	4-φ14	110	79.4	50.8	12.7	4-φ16
1-1/4	32	250	100	140	100	78	18	4-φ18	115	88.9	63.5	14.3	4-φ16
1-1/2	40	250	100	150	110	88	18	4-φ18	125	98.4	73	15.9	4-φ16
2	50	250	100	165	125	102	19	4-φ18	150	120.7	92.1	17.5	4-φ19
2-1/2	65	270	100	185	145	122	20	8-φ18	180	139.7	104.8	20.7	4-φ19
3	80	270	100	200	160	138	20	8-φ18	190	152.4	127	22.3	4-φ19
4	100	270	100	220	180	158	22	8-φ18	230	190.5	157.2	22.3	8-φ19
5	125	270	100	250	210	188	22	8-φ18	255	215.9	185.7	22.3	8-φ22
6	150	280	100	285	240	212	24	8-φ22	280	241.3	215.9	23.9	8-φ22
8	200	290	100	340	295	268	26	12-φ22	345	298.5	269.9	27	8-φ22
10	250	320	100	405	355	320	29	12-φ26	405	362	323.8	28.6	12-φ25
12	300	320	100	460	410	378	32	12-φ26	485	431.8	381	30.2	12-φ25

Note: Customizable size

Four-way flow sight glass with four connection flanges

DESCRIPTION

For visual inspection of fluid level and flow in pipes. Sight glasses enable a reliable monitoring of function and performance of single devices and entire installations.

Installation orientation:

as needed

Special design options:

with ANSI flange or customizable

with different overall length

with different connection sizes

with weld-on connection

Materials:

All weldable materials

Body: Steel or stainless steel

Glass plates: Borosilicate glass DIN 7080 or tempered glass

Gaskets: Graphite (or as requested)

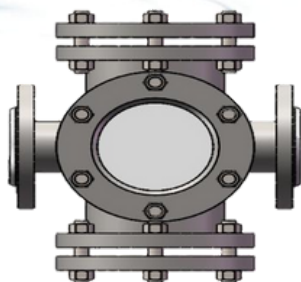
Product Details

Size :DN15 up to DN200

Druckstufe: PN16 up to PN40

Temperature: up to 280°C

Four way



Three way



Two way

