



Hygienic

**Auxiliaries** 



SQ-type sight glass



Sight glass with protection cover

# Wide variety of products with highly efficient performance





Expansion pipe





Swing bend with limit switch



Our products have been developed based on accumulated experience and knowhow in the stainless steel manufacturing field.

Products with high reliability and efficiently have been produced by close working of the technical and production team with the advanced production facilities.

#### Material

SUS-304 (or equivalent)

SUS-316L (or equivalent)

As special products, we can provide with material of other steel grade.

#### Production standard

Surface finish	Internal: #320 to #400 buff polishing External: #180 Hairline (Beads shot blast)
Dimensional tolerance	Face to face dimension : $\pm$ 1.5mm Angular tolerance (parallelism of end face) : $\pm$ 0.5°

#### ► Producible range

In addition to standard products according to ISO standards, we can provide special products according to specifications and design requested by customers. We would like to receive your requests and consult with you. Products in this catalog are not suitable for powders and gases.

#### ► Internal/external surface finish roughness (buff polishing)

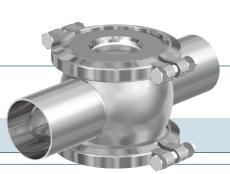
For internal and external surface roughness, if you have request, please give us test piece sample. We will polish at same roughness level.

#### ▶ Ordering

OPlease inform us of material, product name, size, connection type and quantity. In case surface roughness is specified, please give us surface roughness of internal or external by providing us related standard and/or test piece sample. ORefer to model code table.

Sight glass

# **SG**type

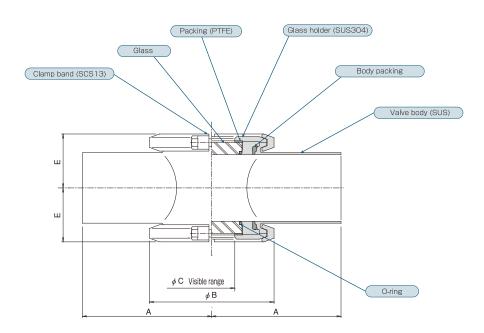




Sight glass

SGQ type sight glass use sequence valve body and is designed with resistant to pipe distortion and thermal strain.

- Reducing remaining liquid by horizontal installation
- Maximum usable pressure : 1MPa
  Heat resistance : 130℃(△T:103℃ or less)
- Option: lighting device



				(mm)
SIZE	А	В	С	Е
10A	80	76	25	24.3
15A	80	76	25	26.5
18	80	76	25	28.8
1.58	100	105	40	39.4
28	120	105	40	45.4
2.58	125	121	50	51.5
3S	140	135	50	58.4
48	160	157.5	50	71.1
58	200	196.5	92	97.7
6S	220	196.5	92	110.4

# **SG**type



#### L TVDE

Sight glass with protection cover

SGL type is made of borosilicate glass with high transparency.

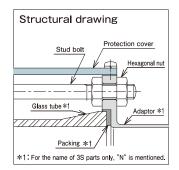
- Reducing remaining liquid by horizontal installation
- Maximum usable pressure : 0.6~0.3 MPa
- Heat resistance : 120°C (in static pressure less)
- 170L face to face dimension is available as option. (ferrule connection only)

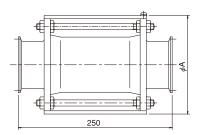


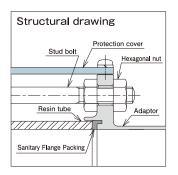
#### Sight glass

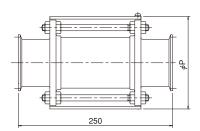
SGP type is made of PSF (polysulfone) resin with caustic resistance, heat shock resistance, impact resistance and strong against lateral force.

- Reducing remaining liquid by horizontal installation
- Maximum usable pressure : 0.8 MPa
- ullet Heat resistance : 130°C
- 170L face to face dimension is available as option. (ferrule connection only)









				(mm)
TYPE	SGL Glass tube	SGP Resin tube	SGL Glass tube	SGP Resin tube
SIZE	φΑ	φP	Max pressure N	MPa (Reference)
1	100	95	0.6	0.8
1 1/2	115	110	0.6	0.8
2	130	125	0.5	0.8
21/2	140	130	0.5	0.8
3	160* <sup>2</sup>	150	0.5 *2	0.8
4	200	180	0.3	0.8

\*2: Glass tube of 3S SGL type is changed to straight glass tube. (Please be noted that it is not compatible with existing 3S type)

4

Sight glass

# SG type

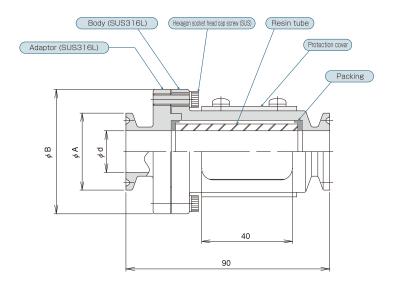


## C TYPE

#### Sight glass

SGC type sight glass is designed compact and made of PSF (polysulfone) resin with caustic resistance, heat shock resistance, impact resistance and strong against lateral force.

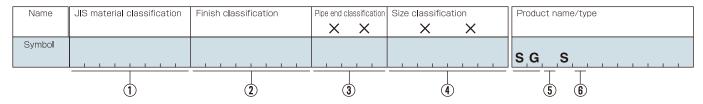
- Reducing remaining liquid by horizontal installation
- Maximum usable pressure : 0.8 MPa
- Heat resistance: 130°C



(mm)

SIZE	φd	φΑ	<b>φ</b> Β
8A	10.5	34	55
10A	14.0	34	55
15A	18.4	34	55
18	23.0	50.5	67.5

#### Sanitary auxiliaries (sight glass) model code table



1 Mate	1 Material (main body)									
Ty	/pe	SGQ type (Visib	le part : Borosilicat	te glass)	SGL type (Visible part : Borosilicate glass)		SGP type (Visible pa	art : Polysulfone resin)	SGC type (Visible pa	art : Polysulfone resin)
Category	Symbol		Material		Mat	teria <b>l</b>	Mat	teria <b>l</b>	Ma	terial
Category	Symbol	Metal part	(Body) Packing	O-ring	Metal part	Packing	Metal part	Packing	Metal part	Packing
	304	SUS 304 (or equivalent)	SE72 (VMQ : Gray)	NBR	SUS 304 (or equivalent)	SE72 (VMQ : White)	SUS 304 (or equivalent)	SE72 (VMQ : Gray)		
	304-E	SUS 304 (or equivalent)	E81 (EPDM : Black)	EPDM			SUS 304 (or equivalent)	E81 (EPDM : Black)		
Standard	304-F	SUS 304 (or equivalent)	F8 (FKM : Black)	FKM	SUS 304 (or equivalent)	F8 (FKM : Black)	SUS 304 (or equivalent)	F8 (FKM : Black)		
Standard	316L	SUS 316L (or equivalent)	SE72 (VMQ : Gray)	NBR	SUS 316L (or equivalent)	* 1 SE72 (VMQ : White)	SUS 316L (or equivalent)	SE72 (VMQ : Gray)	SUS 316L (or equivalent)	SI (VMQ : Translucent)
	316L-E	SUS 316L (or equivalent)	E81 (EPDM : Black)	EPDM			SUS 316L (or equivalent)	E81 (EPDM : Black)	SUS 316L (or equivalent)	EPDM (Black)
	316L-F	SUS 316L (or equivalent)	F8 (FKM : Black)	FKM	SUS 316L (or equivalent)	F8 (FKM : Black)	SUS 316L (or equivalent)	F8 (FKM : Black)	SUS 316L (or equivalent)	FKM (Black)

\*1: For 3S only SI (VMQ : Translucent)

2 Surf	2 Surface finish								
Ту	Type SGQ type SGL/SGP type								
Cotogony	Finish		ish	Symbol	Finish				
Category Symbol	Internal finish	External finish	Symbol	Internal finish	External finish				
Standard	1P	#320 to #400 buff polishing	Pickling or beads shot blast	2P	#320 to #400 buff polishing	#180 Hairline			
Option	0P	Pickling	Pickling or beads shot blast	0P	Pickling	Pickling or beads shot blast			
Option	EP	Electrolytic polishing	Pickling or beads shot blast	EP	Electrolytic polishing	#180 Hairline			

3 Connection					
Category	Symbol	Details			
	М	ISO male			
Standard	С	ISO clamp			
	Т	Sanitary flange (fixed)			
	R	Sanitary flange (loose)			
N		ISO nut			
Option	W	Weld			
Οριίστι	Х	Other			

Note) SGC type is C only

Size (Q type)				
Category	Symbol	Size		
	03	10A		
	04	15A		
	10	18		
Standard	15	1 1/2S		
	20	28		
	25	21/2S		
	30	38		
	40	48		
	45	41/2S		
	50	58		
	60	68		

4 Size (L/P type)					
Category	Symbol	Size			
	10	18			
Standard	15	1 1/2S			
	20	28			
	25	21/2S			
	30	38			
	40	48			
	35	31/2S			
Option (L type only)	45	41/2S			
	50	58			

4 Size (C type)					
Category	Symbol	Size			
Standard	02	8A			
	03	10A			
	04	15A			
	10	18			

5 Type					
Symbol	Details				
Q	Q type sight glass (Visible part : glass)				
L	L type sight glass (Visible part : glass tube)				
Р	P type sight glass (Visible part : resin tube)				
С	C type sight glass (Visible part : resin tube)				

6 Accessories							
Type	SGQ type	Type	SGL/SGP type				
Symbol	Details	Symbol	Details				
0	Without standard acrylic cover	Α	With standard acrylic cover				

#### Check valve

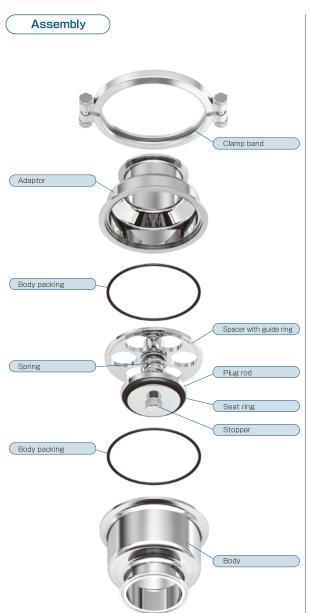




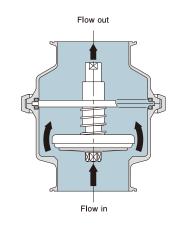
This check valve is a lift-type check valve.

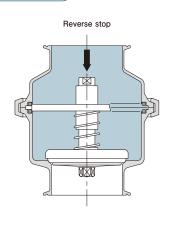
Check valves for vertical piping and horizontal piping are available. Check valves for horizontal piping are eccentric type so that no liquid pool is created. The standard type is equipped with a seat ring made of EPDM.

- Lift-check type system ensures correct operation.
- A special fluororesin guide ring is mounted on a standard spacer to prevent galling.
- Seat rings made of fluororubber, silicone rubber and PTFE are available as needed.
- This valve is designed to be used for liquids. If it is used for gases, chattering may occur.
- This valve cannot be used as a safety valve for containers (tanks).
- In case complete closing is required under slight back pressure, please use ON-OFF valve.



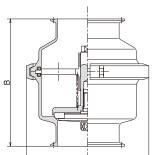
#### Description of flow direction





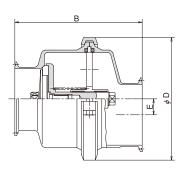
### C TYPE

Concentric type (for vertical piping)





Eccentric type (for horizontal piping)



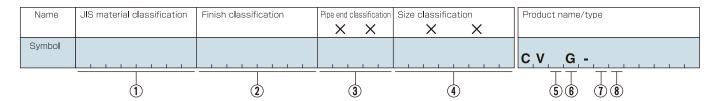
(mm)

CIZE	В			40	_	*P.D.MDa
SIZE	M or C	N×N	T×T	φD	Е	፠B.P MPa
1	115	135	165	76	10.5	0.02
1 1/2	125	145	175	91.5	11.7	0.01
2	140	160	190	121	18.1	0.01
21/2	170	190	220	135	19.8	0.01
3	180	200	230	157.5	21.4	0.01
4	205	225	240	198.4	25.7	0.01

This check valve is a backflow-prevention valve and the above B.P MPa values show only reference values.
 \* B.P. Pressure when starting to open



#### Sanitary auxiliaries (check valve) model code table



1 Mate	① Material (main body)					
Category	Symbol	Material				
Category Sym	Зуппроі	Matal Part	(Body) Packing	Seat Ring		
Standard	304	SUS 304 (or equivalent)	E7 EPDM	E7 EPDM		
Option	316L	<b>316L</b> SUS 316L (or equivalent) E7 EPDM E7 EPDM				
Note	Check valve 316L ** uses SUS316 as the spring material.					

2 Surface finish					
Cotogoni	Symbol	Finish			
Category		Internal finish	External finish		
Standard	2P	#320 to #400 buff polishing	#180 Hairline		
Option	OP	Pickling	Pickling or beads shot blast		
	1P	#320 to #400 buff polishing	Pickling or beads shot blast		
	EP(1P)	Electrolytic polishing	Pickling or beads shot blast		
	EP(2P)	Electrolytic polishing	#180 Hairline		

3 Connection				
Category	Symbol Details			
	M	ISO male		
	С	ISO clamp		
Standard	Т	Sanitary flange (fixed)		
	R	Sanitary flange (loose)		
	N	ISO nut		
0	W	Weld		
Option	Х	Other		

4 Size					
Category	Symbol	Size			
	10	18			
	15	1 1/2S			
Standard	20	28			
Otandara	25	21/2S			
	30	38			
	40	4S			
	45	41/2S			
Option	50	5S			
	60	6S			

<b>(</b> 5) Туре					
Symbol	Details				
С	Concentric type				
E	Eccentric type				

6 Details				
Symbol	Details			
G	Guide ring type			

7 Material of seat ring				
Symbol	Details			
S	SE72 Silicone rubber			
Е	E7 EPDM			
V	F8 Fluororubber			

8 Material of body packing				
Symbol	Details			
S	SE72 Silicone rubber			
E	E7 EPDM			
V	FKM Fluororubber			

#### Swing check valve





Valve disc is self weight swing type, it is reducing cracking pressure, improving drainage and keeping pressure loss low when the fluid pass through.

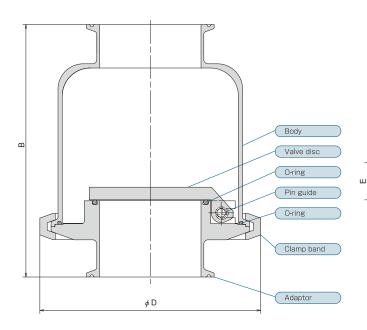
- Low cracking (opening) pressure
- Low pressure loss
- Reducing pulsation, and preventing the risk from resonance and chattering.

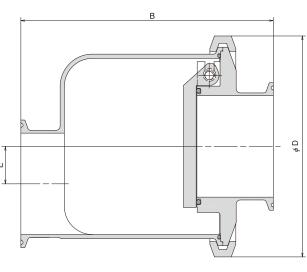


Concentric type(for vertical piping)



Eccentric type(for horizontal piping)





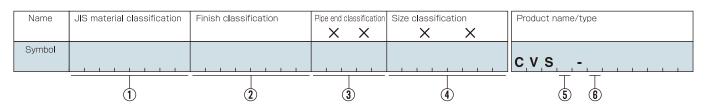
(mm)

SIZE	В			φD	Е	Cracking pressure
SIZE	M or C	$N \times N$	T×T	Ψυ	_	(MPa)
15A	105	_	_	91.5	21.8	
ls	115	135	165	91.5	19.5	
1 ½s	125	145	175	121	25.7	0.001
2s	140	160	190	135	26.1	0.001
2½s	170	190	220	157.5	29.8	
3s	180	200	230	157.5	26.7	



# Description of flow direction Concentric type(for vertical piping) Flow out Opening Closing Closing Closing

#### Sanitary auxiliaries (swing check valve) model code table



1 Material (main body)					
Category	Svmbol	Material			
Category	Зуппон	Metal part			
Standard	316L	SUS 316L (or equivalent)			

② Surface finish						
Category	Symbol	Finish				
Outogory		Internal finish	External finish			
Standard	2P	#320 to #400 buff polishing	#180 Hairline			
Option	EP(2P)	Electrolytic polishing	#180 Hairline			

3 Connection					
Category	Symbol Details				
Standard	M	ISO Male			
	С	ISO Clamp			
Standard	Т	Sanitary flange (fixed)			
	N	ISO Nut			

3 Size				
Category	Symbol	Size		
	04	15A		
	10	18		
Standard	15	l 1/2S		
Stanuaru	20	28		
	25	2 <sub>1/2</sub> S		
	30	38		

5 Type		
Symbol	Details	
С	Concentric type	
E	Eccentric type	

6 Material of O-ring			
Symbol	Details		
S	VMQ Silicon rubber		
Е	E7 EPDM		
V	FKM Fluororubber		

#### **Expansion pipe**

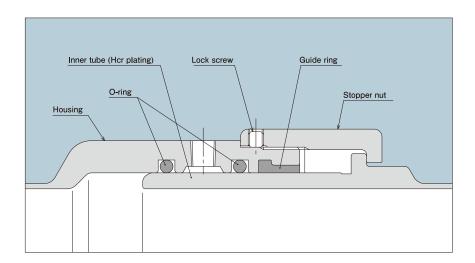
# **EJN** type

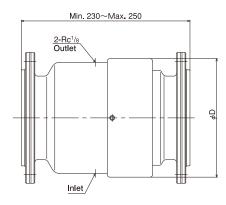


This expansion pipe is designed to absorb thermal expansion and contraction due to changes in temperature.

This expansion pipe must be mounted so that no offset loads are applied and the length should be set taking into consideration the temperature differences during use.

- It can be easily disassembled and cleaned to ensure thorough sanitariness.
- The sliding surface is plated with hard chrome.
- The O-ring made of reinforced silicon rubber is mounted.

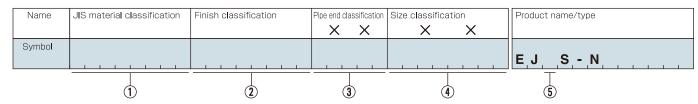




	(mm)
SIZE	D
2	89
21/2	105
3	117
4	144
5	183
6	210



#### Sanitary auxiliaries (expansion pipe) model code table



1 Material (main body)					
Cotogony	Symbol	Material			
Category	Symbol	Metal Part	0-ring		
Standard	304	SUS 304 (or equivalent) SE72 Silicone rubber			
Note	The sliding surface is plated with hard chrome.				

2 Surface finish					
Category	Svmbol	Finish			
Outobory	Cyrribor	Internal finish	External finish		
Standard	1P	#320 to #400 buff polishing Pickling or beads shot blast			
Option	0P	Pickling	Pickling or beads shot blast		

3 Connection				
Category	Symbol	Details		
	М	ISO male		
	С	ISO clamp		
Standard	Т	Sanitary flange (fixed)		
	R	Sanitary flange (loose)		
	N	ISO nut		
Ontion	W	Weld		
Option	Х	Other		

4 Size				
Category	Size			
	20	28		
	25	2 <sub>1/2</sub> S		
	30	38		
Standard	40	4S		
	45	41/2S		
	50	58		
	60	68		

5 Type			
Category	Symbol	Details	
Standard	rd N-type expansion pipe (△L=20mm)		
Option	M or A	M or A-type expansion pipe (△L=50mm) (A type is equipped with an auto drain.)	

#### Lubricant application specifications

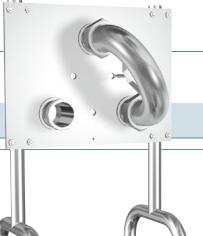
Application specifications	Application range	Note
Standard	Sliding seal part —	
Lubricant	NOK Kluber PARALIQ GTE	703 *1 (NSF category H1)

<sup>\*1</sup> Conforming to the Food Sanitation Law



#### Flow-change swing bend

# SBtype



The flow-change swing bend is designed to minimize the complexity of process lines and simplify them to increase workability. This product is also required to reliably change the line from the CIP line, etc.

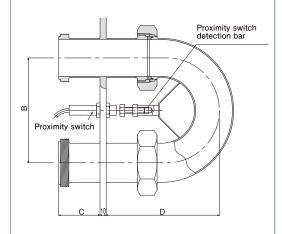
 The type equipped with a feedback switch is available for centralized control.

#### Assembly



Since the gasket is fitted on the U-bend side, the U-bend can be easily detached and attached.

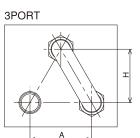
#### Swing bend with feedback switch

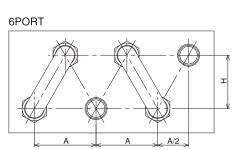


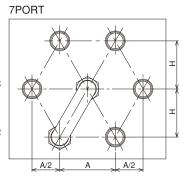
(mm)

SIZE	В	С		П
SIZE	Ь	CLAMP	MALE	D
1 1/2	114.4	62	71	157.2
2	152.4	62	71	176.2
21/2	190.6	62	71	195.3
3	254	62	71	227
4	254	57	71	225

• Standard type is shown in the following figures. Various combinations and shapes are available as specially-ordered products.



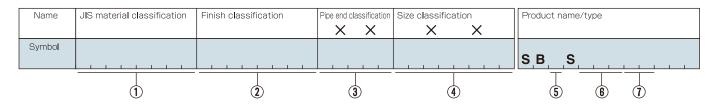




		(mm)
SIZE	А	Н
1 1/2	114.4	99
2	152.4	132
21/2	190.6	165
3	254	220
4	254	220



#### Sanitary auxiliaries (flow-change swing bend) model code table



1 Material (main body)						
0-+	Cumbal	Material				
Category	Symbol	Metal part	Gasket			
	304	SUS 304 (or equivalent)	SE72 silicone rubber			
Standard	304-E	SUS 304 (or equivalent)	E81 EPDM			
	304-F	SUS 304 (or equivalent)	F8 fluororubber			
	316L	SUS316L (or equivalent)	SE72 silicone rubber			
	316L-E	SUS316L (or equivalent)	E81 EPDM			
Option	316L-F	SUS316L (or equivalent)	F8 fluororubber			
	304-TL	SUS 304 (or equivalent)	VMQ + PTFE lining			
	316L-TL	SUS316L (or equivalent)	VMQ + PTFE lining			

2 Surface finish					
Category Symbol		Fin	ish		
Category	Зуппрог	Internal finish	External finish		
Standard	2P	#320 to #400 buff polishing	#180 Hairline		
Ontion	OP	Pickling	Pickling or beads shot blast		
Option	1P	#320 to #400 buff polishing	Pickling or beads shot blast		

3 Connection				
Category	Symbol	Details		
	М	ISO male		
Standard	С	ISO clamp		
	Т	Sanitary flange (fixed)		
	R	Sanitary flange (loose)		
	N	ISO nut		
Option	W	Weld		
	Х	Other		

4 Size					
Category	Symbol	Size			
	15	1 1/2S			
	20	28			
Standard	25	21/2S			
	30	3S			
	40	48			

<b>(</b> 5) Туре					
Symbol	Details				
S	Standard port				
X	Special port				

6 Detai	ls
Symbol	Details
* * *	Describe the quantity in the order of nozzle, bend and BL nut.

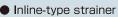
Switch type and quantity				
Symbol	Details			
J	IGC2005-ARKG/UP made by ifm efector			
U	FL7M-7J6HD made by Azbil			
R	FL7M-7K6H made by Azbil			
Р	Other			
X	Bracket only			

#### Strainer

## STS type

## STE type

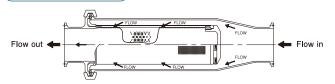
L-type strainer

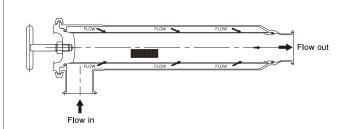


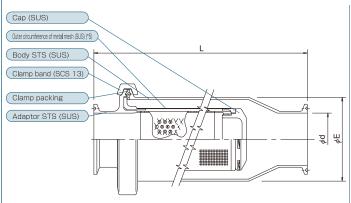


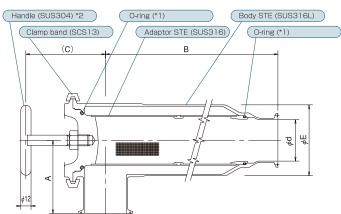
- Install this strainer between pipes.
- The mesh part consists of a single-layer #16 to #400 wire mesh as standard. Metal meshes with other counts and sintered metal mesh are available as options.
- If this type is installed in the product line, COP is required as needed.
- Specifications: Withstand pressure of main body: 0.6MPa; Heat resistance: 100°C
- Install this strainer between pipes.
- The mesh part consists of a multi-layer #20 to #200 wire mesh as standard. Metal meshes with other counts and wedge wires are available as options.
- This type is designed to minimize dead space for cleaning.
- Specifications: Withstand pressure of main body: 1MPa; Heat resistance: 120°C

#### **Description of flow**









(mm)							Filtration are	a and size rati	0		
01		4	^	В		F Filtration are	F Filtration areác m²)		R Bore area ra	atio=F/0.785d <sup>2</sup>	
51	ZE	d	Α	В	С	L	Е	STS *3	STE	STS *3	STE
	1	23.0	70	250	95	300	63.5	40	200	9.6	48
	1 1/2	35.7	70	340	102	400	63.5	80	320	8.0	32
2	2	47.8	82	425	107	500	76.3	135	515	7.6	29
2	2 1/2	59.5	105	490	104	600	101.6	200	855	7.3	31
0	3	72.3	110	510	110	600	114.3	285	970	6.8	23
4	4	97.6	160	600	128	700	139.8	500	1380	6.5	18

STE-type	standard	mesh	composition	

Nominal	Mesh composition (from outer circumference to inner circumference)	Aperture (mm)
#20	#20+#16+#16	0.87
#40	#40+#20+#16+#16	0.41
#60	#60+#20+#16+#16	0.25
#80	#80+#20+#16+#16	0.20
#100	#100+#20+#16+#16	0.15
#150	#150+#100+#20+#16+#16	0.11
#200	#60+#200+#60+#20+#16	0.08

#### Cv value

OV Value					
SIZE	STS type	STE type			
1	19	13			
1 ½	45	29			
2	70	50			
21/2	118	88			
3	150	112			
4	220	177			

#### Tolerable differential pressure (MPa)

SIZE	STS type	STE type
1	0.05	0.20
1 1/2	0.05	0.20
2	0.05	0.15
21/2	0.05	0.15
3	0.05	0.10
4	0.05	0.10
	1 1½ 2 2½ 3	SIZE STS type  1 0.05  1½ 0.05  2 0.05  2½ 0.05  3 0.05

- \*1: For O-ring material of STE type, select from EPDM, FKM, and silicone rubber.
- \*2: Before removing the handle of STE-type, cover the screw hole with plastic cap.
  \*3: The values of STS type are calculated by multiplying the area of mesh part by the hole area ratio of the punched metal.

  \*4: The strength of the mesh part of STS type is affected by not only differential pressure value but also
- liquid pulsation, swirling flow, initial dynamic pressure, etc.  $\pm 5$ : In the case where 316L is used as the material for STS type, 316 may be used instead of 316L depending on mesh stock situation.

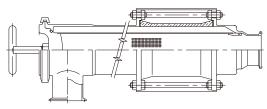
## **STE**type

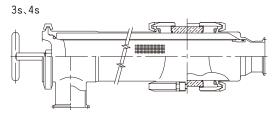
#### L-type strainer with sight glass

Attaching a sight glass to the STE-type strainer allows you to check the condition of mesh part as needed. Regarding the sight glass to be used, use SGL type with an acrylic cover for 1s to 2.5s and use an SGQ-type sight glass for 3s and 4s. The withstand pressure of the main body is same as sight glass.

Refer to the withstand pressure on page 3.

#### 1s~2.5s

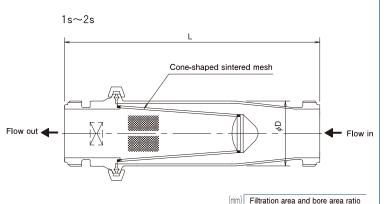




## **STF**type

#### Compact strainer

This strainer is equipped with a cone-shaped sintered mesh, which allows you to install it in short distances between faces to prevent contamination, and to monitor inside. Use this strainer as the final strainer before the filling machine for liquids without solid materials.

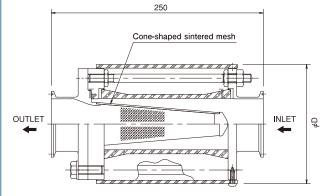


		i illialion alea ai	u bore area ratio	
φD	L	CV (Clogging ratio: 0%)		R Bore area ratio =F/0.785d <sup>2</sup>
38.1	200	18	44.3	10.7
50.8	230	40	89.9	9.0
63.5	250	69	150	8.4
	38.1 50.8	38.1 200 50.8 230	(Clogging ratio: 0%) 38.1 200 18 50.8 230 40	φ D         L         CV (Clogging ratio: 0%)         F Filtration area ( c m²)           38.1         200         18         44.3           50.8         230         40         89.9

## **STC** type

#### Strainer with sight glass

The cone-shaped strainer is mounted in the standard sight glass, which allows you to install it in short distances between faces to prevent contamination, and to monitor inside. Use this strainer as a final strainer before the filling machine.



(mm)				Filtration area an	d bore area ratio
SIZE	<b>φ</b> D	Cv (Clogging ratio: 0%)	C∨ (Clogging ratio: 50%)	F Filtration area	R Bore area ratio =F/0.785d²
2½	140	60	40	150	5.4
3	160	100	70	190	4.7
4	200	160	110	260	3.5

#### Optional mesh Wedge wire For highly-viscous liquids Slot size T Note O.A (%) aperture ratio Applicable size 0.150mm Equivalent to #100 9 STE type:1s~4s Equivalent to #200 0.075mm 4.7 **Punched metal** $\phi d$ р O.A (%) aperture ratio Use this metal to catch 22.6 1.0 2.0 larger foreign materials only. 22.6 1.5 3.0 0 0 0 0 0 2.0 4.0 29.6 32.6 3.0 5.0 4.0 29.6 70 00000 5.0 80 35.4 00000 10.0 8.0 40.2 **Etching** Nominal Opening diameter (mm) O.A (%) aperture ratio #20 $\phi 0.87$ 40.6

#40

#60

#80

#100

#150

40.3

40.3

40.3

40.3

φ0.4

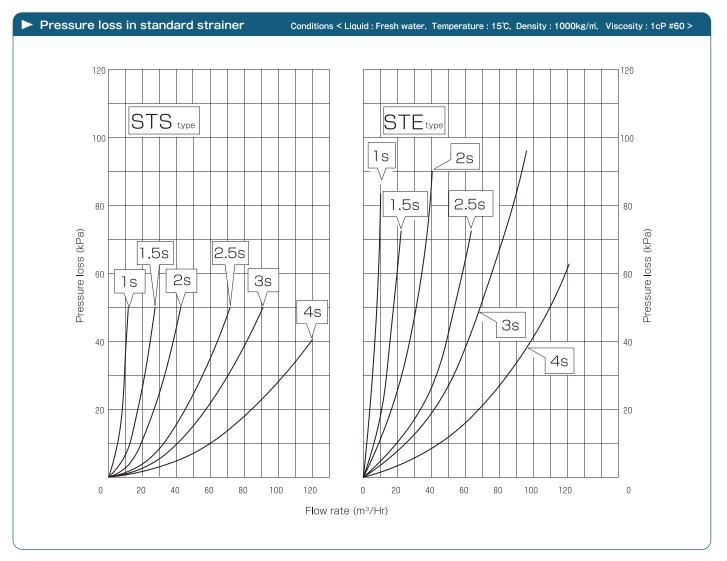
 $\phi$  0.25

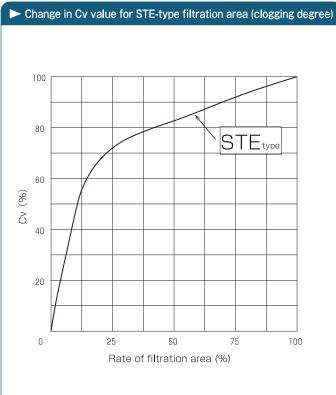
φ0.2

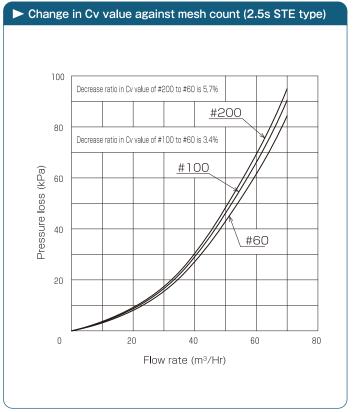
 $\phi 0.15$ 

 $\phi 0.1$ 

#### **Technical material (strainer)**

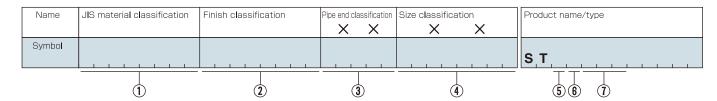








#### Sanitary auxiliaries (strainer) model code table



1 Material (main body) STE type				
Category	Symbol	Material		
		Metal part	O-ring	
Standard	316-S	SUS 316L (or equivalent)	SI silicone rubber	
	316-E	SUS 316L (or equivalent)	EPDM	
	316-F	SUS 316L (or equivalent)	FKM fluororubber	
Note	Material of sintered metal mesh is SUS316			

Material (main body) STS type				
Category	Symbol	Material		
		Metal part	Packing (40MP) <sup>*2</sup>	
Standard	304	SUS 304 (or equivalent)	FPDM	
	316L *1	SUS 316L (or equivalent)		
Option			silicone rubber, fluororubber	
<ul><li>*1 : Material of mesh is SUS316</li><li>*2 : 3S and 4S are silicone rubber only</li></ul>				

② Surface finish				
Category Symbol		Finish		
Odtobory	Symbol	Internal finish	External finish	
Standard	1P	#320 to #400 buff polishing	Beads shot blast	
Stariuaru	2P	#320 to #400 buff polishing	#180 Hairline	
Option	0P	Pickling	Beads shot blast	
Орион	EP (1P)	Electrolytic polishing	Beads shot blast	

3 Connection				
Category	Symbol	Details		
	M	ISO male		
	С	ISO clamp		
Standard	Т	Sanitary flange (fixed)		
	R	Sanitary flange (loose)		
	N	ISO nut		
Option	W	Weld		
	Х	Other		

4 Size		
Symbol	Size	
10	ls	
15	l 1/2S	
20	2s	
25	21/28	
30	3s	
40	4s	

<b>(</b> 5) Туре			
Category	Symbol	Details	
Ctondord	S	In-line type, Separate mesh part type	
Standard <b>E</b>	E	L type, Integrated adaptor and mesh part	
	F	Compact type	
Option C	Strainer with sight glass		
Other		S or E type with sight glass	

6 Structure classification			
Category	Symbol	Details	
STS	#	Plain weave (twilled) mesh	
313	B#	Sintered metal mesh	
STE	AB	O-ring seal + sintered metal mesh	
STF	С	Corn type sintered metal mesh	
STC	B#	Corn type sintered metal mesh	

7 Mesh classification		
Category	Symbol	Details
	40 400	#16~#400 (some standard size skipped)
Standard	16~400	STS type ※3
Stariuaru	20~200 (Sintered)	#20~#200 (some standard size skipped)
		STS / STE / STF / STC type
*3 : Plain weave over #250 is twilled weave.		



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