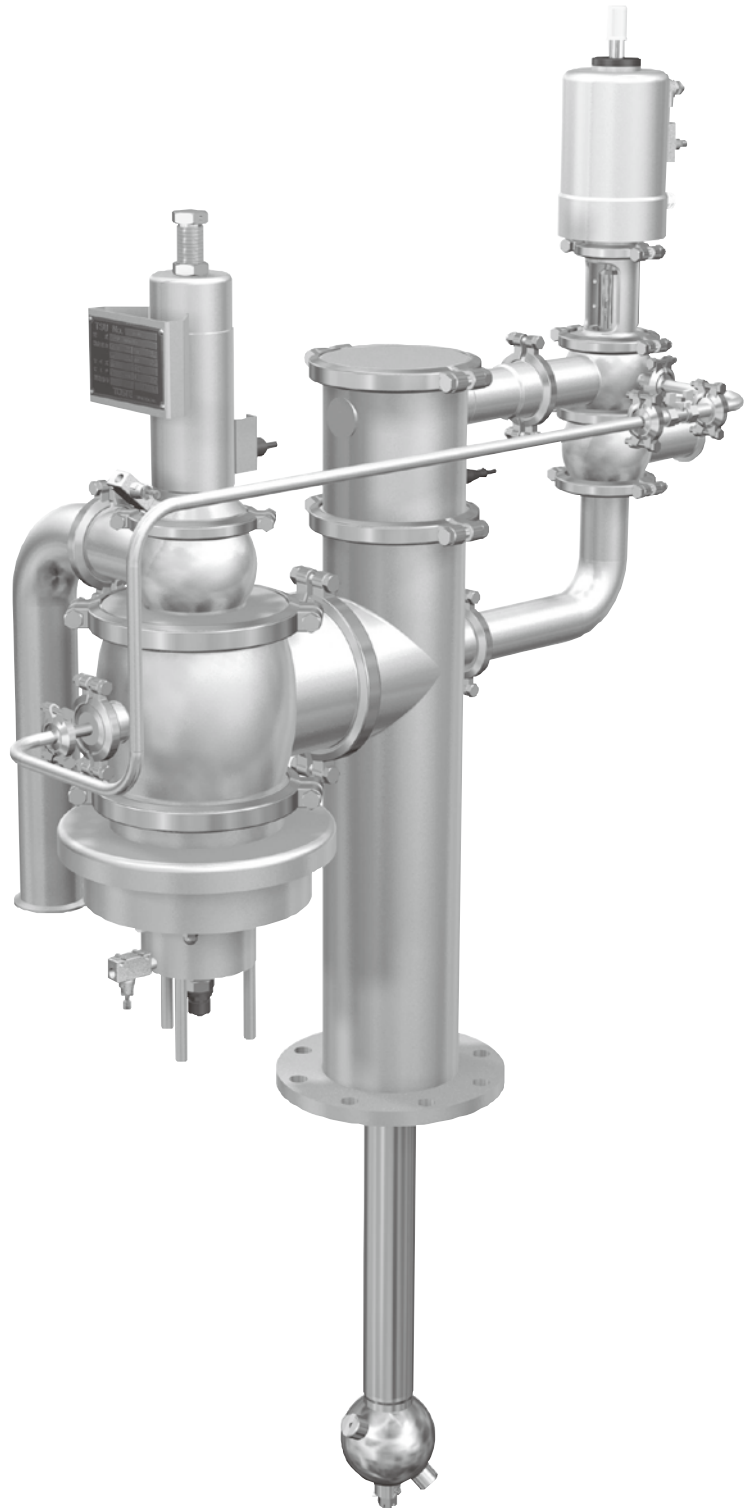




*Hygienic*  
**Tank Safety  
Equipment**

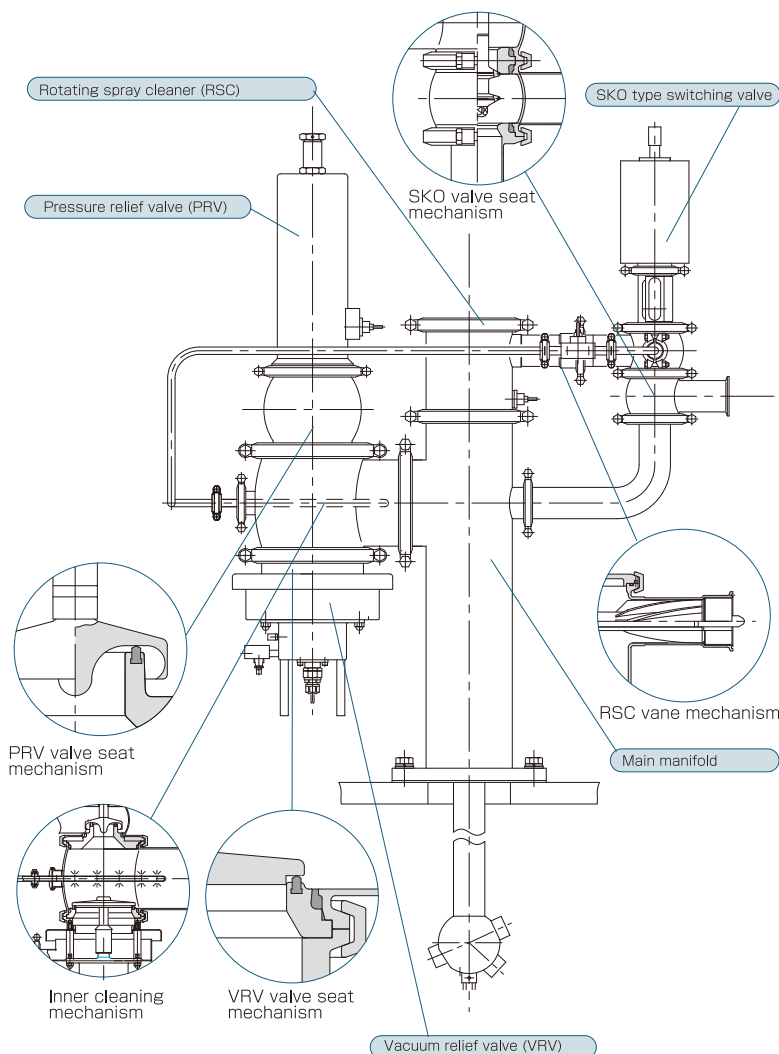
Wide-margin  
products derived  
from advanced  
technologies



## Tank safety unit

TSU<sub>type</sub>

## ● Configuration diagram



Our sanitary tank safety units are units for tank protection based on technologies and experience cultivated over many years. These units can respond quickly to abnormal fluctuations in pressure which would occur during supply of feed liquid to the tank or tank CIP to relieve the abnormal pressure, and also have a tank cleaning mechanism.

The unit inside is equipped with a nozzle to allow you to clean at the same time, providing sanitary conditions.

For unit combination selection, inform us of the various tank conditions.

We offer you safer combination products. If spray balls, nozzles, etc. are specified, inform us of the connection dimensions.

## Manufacturable range

- VRV vacuum relief valve  
Size: 5S, 4S, 3S (-150mmAq)
- PRV pressure relief valve  
Size: 4S, 3S, 2S, 1S  
0.02 to 0.17MPa
- RSC rotating spray cleaner  
Size: 2S, 10 to 30m<sup>3</sup>/Hr  
0.2 to 0.3MPa
- SBE spray ball  
Size: 1S, 2S, 5 to 30m<sup>3</sup>/Hr  
0.2 to 0.3MPa
- CIP-GAS switching type  
SKO sequence switching valve
- Main manifold  
125A, 200A

## Material

SUS-304 (or equivalent)

SUS-316L (or equivalent)

## Production standard

External finish	Beads shot blast or #180 to #400 buff polished finish
Internal finish	Within #320 to #400 buff polished finish
In-between surfaces tolerance	±2mm or less
End surface parallelism	± 1°
Squareness	± 1
Positive pressure performance	As per specifications (pneumatic pressure, normal temperature)
Negative pressure performance	As per specifications (pneumatic pressure, normal temperature)

## ► Valve selection and ordering

When using our valves, be sure to use them within the respective valve specifications. If valves will be used outside the scope of specifications, a design with higher safety taking into consideration various conditions is required. We would be pleased to offer consultation if you provide us with information.

## ► Ordering

When ordering, specify the material, product name, size, pipe end shape, quantity and use conditions. If a specific finish roughness is required, specify the finish roughness of the internal and external.

## Sanitary tank safety equipment

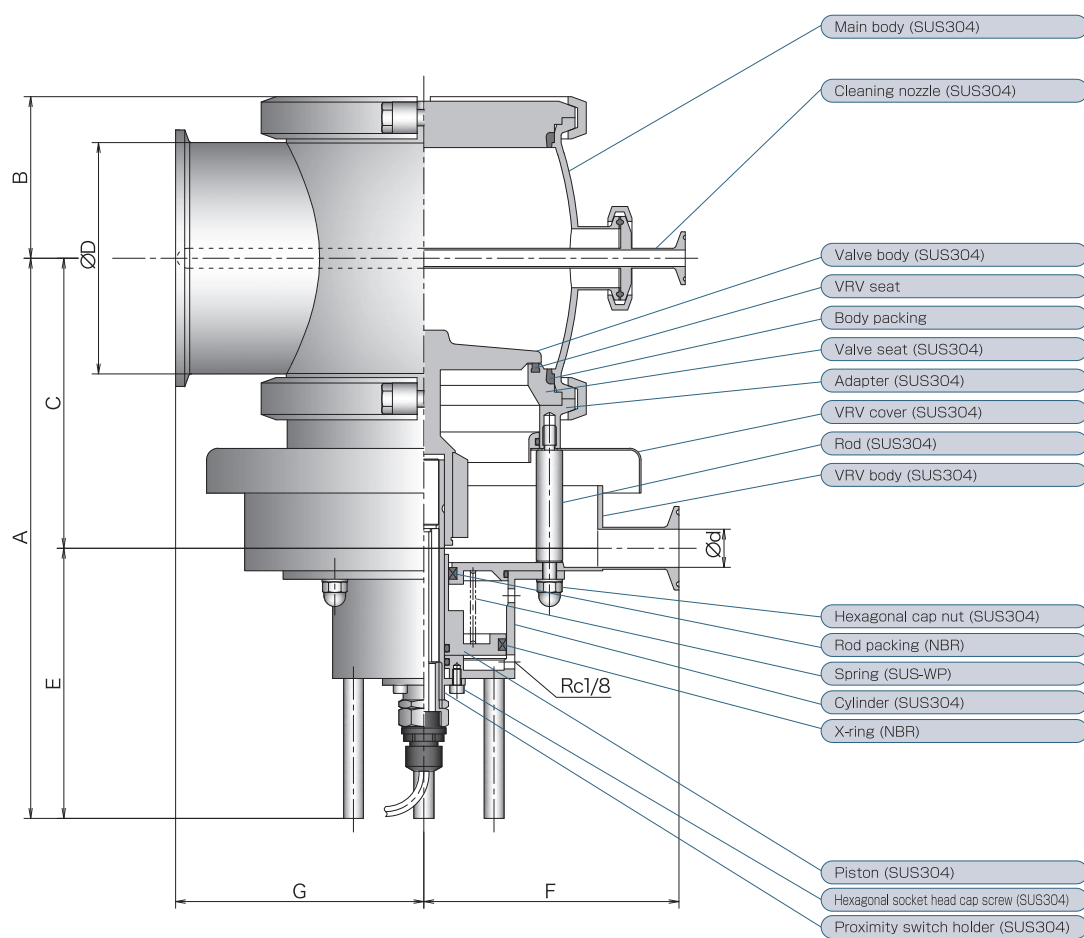
VRV<sub>type</sub>

## ● Vacuum relief valve



The vacuum relief valve is sealed by the valve body own weight.

Set pressure: -150mmAq (standard)



SIZE	A	B	C	$\phi D$	$\phi d$	E	F	G
3S	288.1	58.4	140.4	76.3	23.0	148	125	140
4S	305.8	79.6	157.8	101.6	23.0	148	150	150
5S	323.9	97.7	175.9	139.8	23.0	148	150	150

(mm)

## Sanitary tank safety equipment

**PRV** type

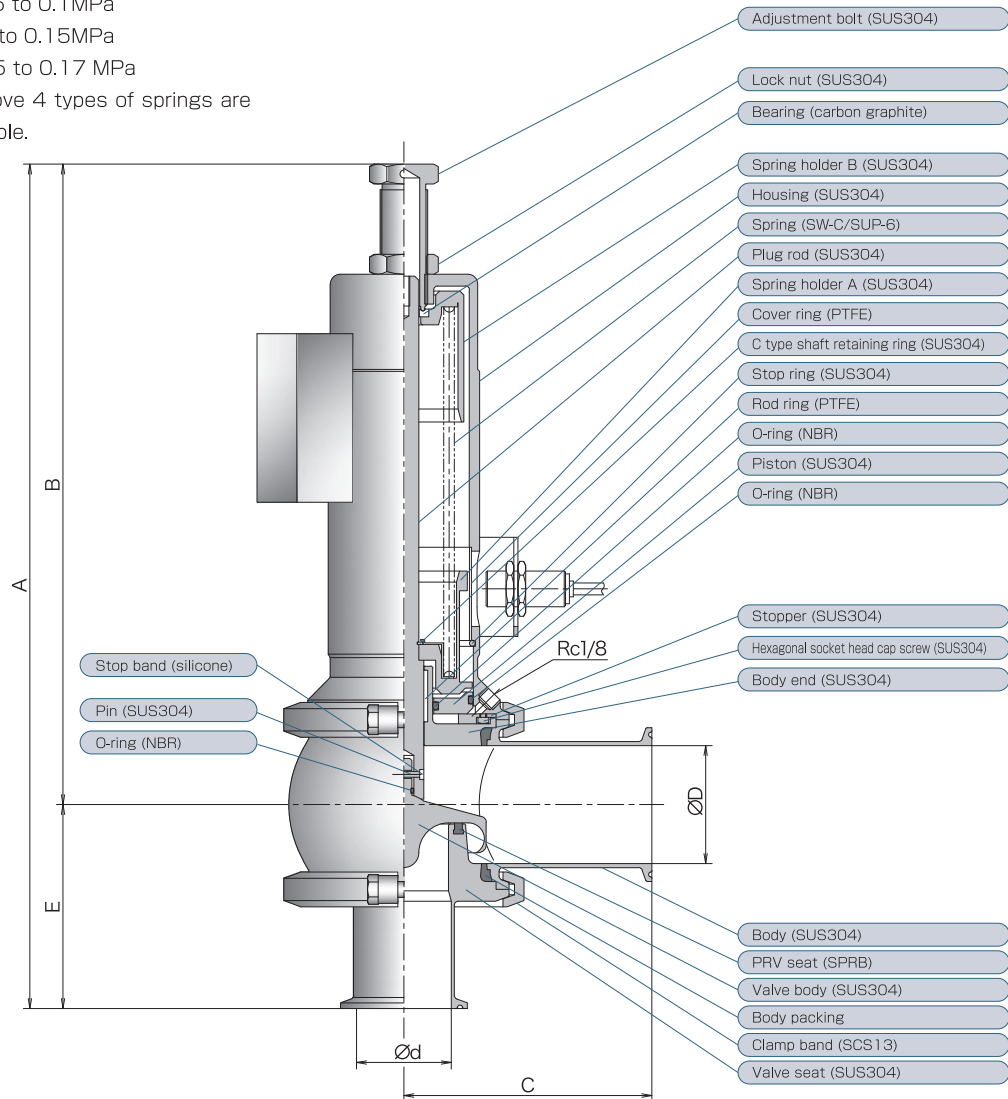
## ● Pressure relief valve



The pressure relief valve is sealed by the spring load

- (A) 0.02 to 0.05MPa ... 2S or more
- (B) 0.05 to 0.1MPa
- (C) 0.1 to 0.15MPa
- (D) 0.15 to 0.17 MPa

The above 4 types of springs are selectable.



SIZE	A	B	C	$\phi D$	$\phi d$
1S	340.2	259.4	100	35.7	23.0
2S	426.1	323.4	125	59.5	47.8
3S	566.0	444.2	140	97.6	72.3
4S	699.8	554.9	160	133.8	97.6

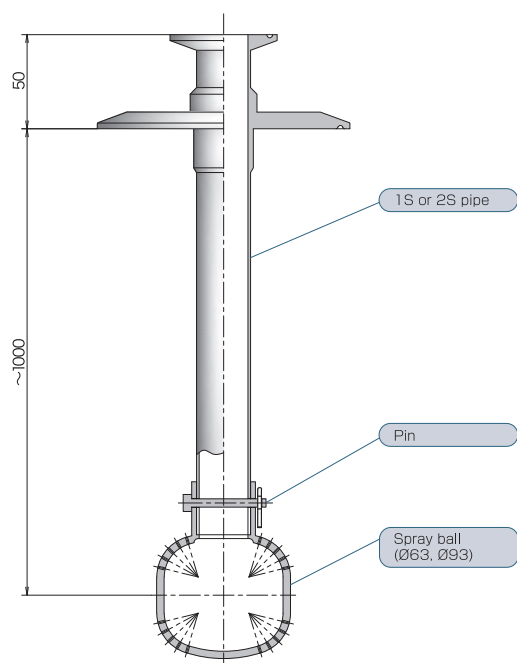
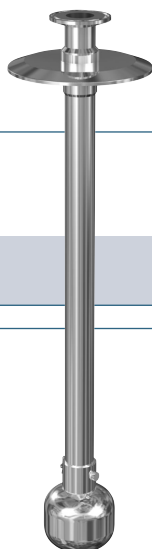
(mm)

## Sanitary tank cleaning equipment

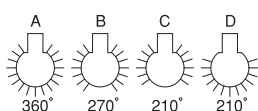
**SBE**<sub>type</sub>

- pray ball

In the case of a comparatively small diameter tank, a spray ball is used.



- Spray ball type

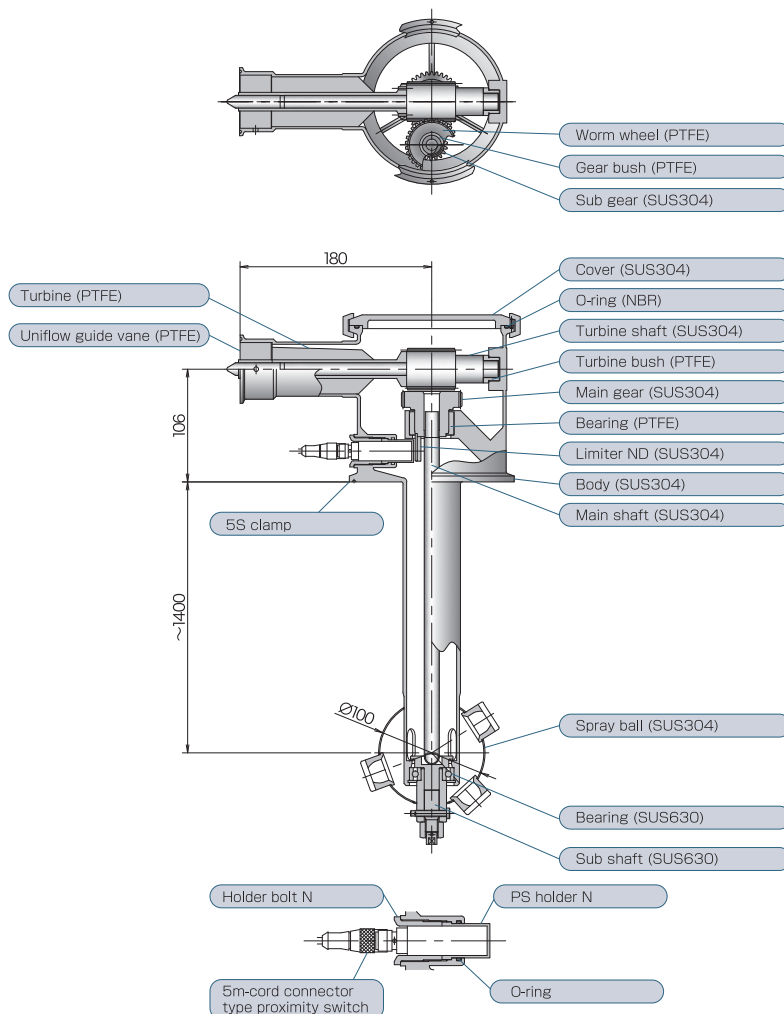
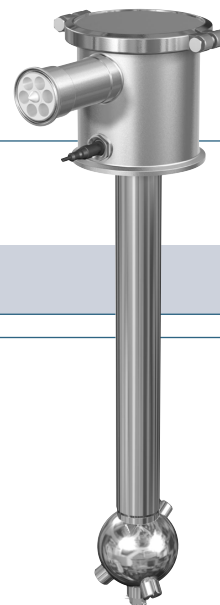


## Sanitary tank cleaning equipment

**RSC**<sub>type</sub>

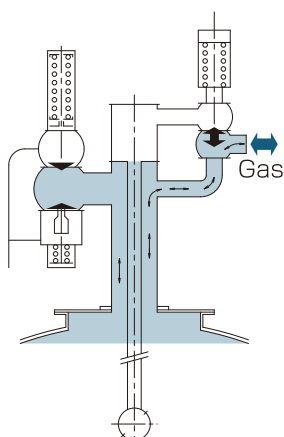
- Rotating spray cleaner

The Toste rotating spray cleaner uses the cleaning liquid to rotate the turbine and drive the ball part, which enables reliable cleaning. In addition, the proximity switch allows rotation detection.

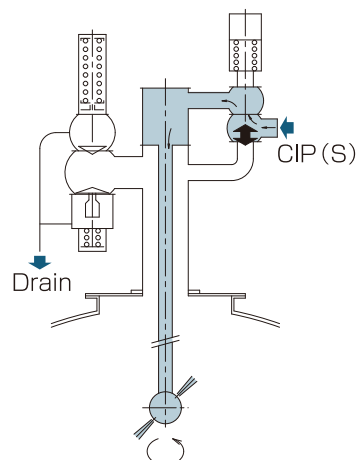


## ► Operation

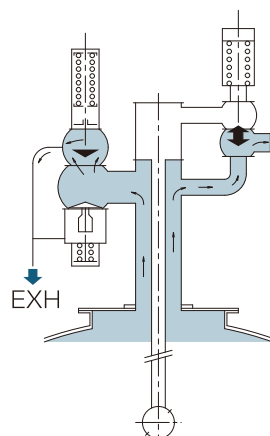
## During normal use



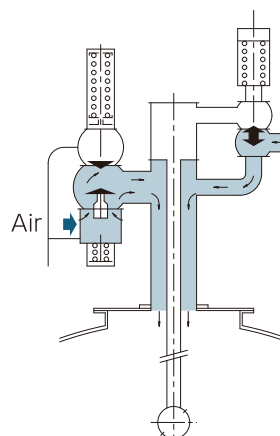
## During tank CIP



## When pressure increases



## When negative pressure is applied



## ► Safety valve (VRV, PRV) capacity table

**VRV** Vacuum relief valve

Set pressure	Suction pressure	SIZE				
		3S	4S	5S	4S×2*	5S×2*
-150	-300	250	550	650	900	1200
mmAq		Nm <sup>3</sup> /Hr(Air)				
Manifold size		125A	125A	125A	200A	

\* 4S x 2 and 5S x 2 indicates cases where 2 safety valves are used.

**PRV** Pressure relief valve

Set pressure	Discharge pressure	SIZE			
		1S	2S	3S	4S
0.02	Set pressure x 1.1 (If the set pressure is less than 0.1MPa, ±0.015MPa is used.)	—	80	160	320
0.05		40	200	400	800
0.07		60	300	600	1200
0.10		80	400	800	1600
0.12		100	500	1000	2000
0.15		120	600	1200	—
0.17		150	700	1400	—
MPa		Nm³/Hr(Air)			

## ► Tank cleaning mechanism

**SBE** Spray ball

Ball diameter	Standard		Flow rate	Pressure	Tank diameter
	Type	Hole diameter			
φ63	A	φ1~	19	0.2~0.25	~3
	B	φ1~	16	0.2~0.25	~3
	C	φ1~	13	0.2~0.25	~3
	D	φ1~	12	0.2~0.25	~3
φ93	A	φ1.5~	47	0.25~0.3	~5
	B	φ1.5~	38	0.25~0.3	~5
	C	φ1.5~	32	0.25~0.3	~5
	D	φ1.5~	28	0.25~0.3	~5
Unit		mm	m <sup>3</sup> /Hr	MPa	m

Screen cleaning (cleaning by chemical effect) is applied basically.

**RSC** Rotating spray cleaner

Maximum diameter	Type	Flow rate	Pressure	Rotation speed	Tank diameter
φ 130	1 nozzle 2 nozzle 3 nozzle	12	0.2~0.25	6~12	~4
		14			~4.5
		16			~5
		20	0.25~0.3		~6
		25			~7
		30			~8
Unit		m³/Hr	MPa	r.p.m	m

Screen cleaning (cleaning by chemical effect) + physical cleaning enables cleaning the tank using only a small flow rate.

## ► Required flow rate for screen cleaning

$$Q = \pi \times D \times (25 \sim 35) \text{ (ℓ/min)}$$

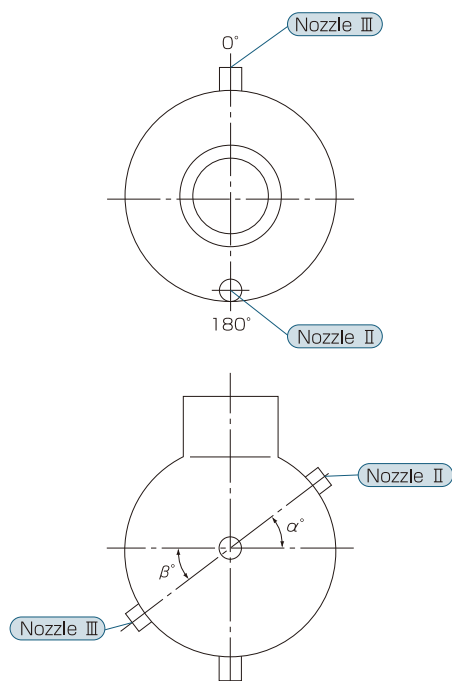
D : Tank diameter (m)

25 : Common

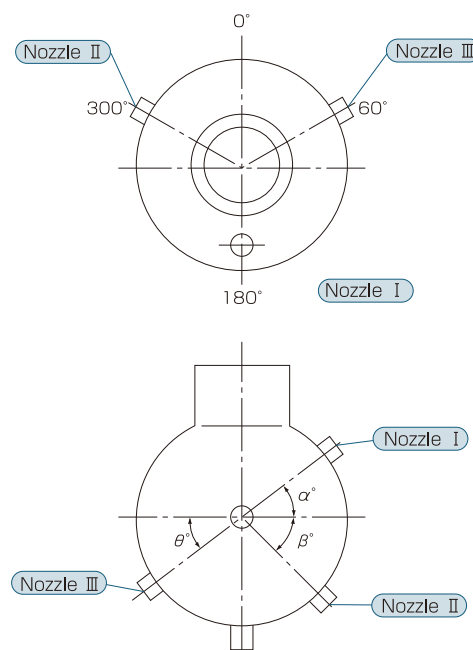
35 : Heavy dirty

## ► Nozzle orientation

## With 2 nozzles



## With 3 nozzles



Be sure to attach a 150 mesh or higher filter to the supplying line for CIP liquid.



## Type symbol table of SBE spray ball

Name	JIS material classification	Finish classification	Pipe end classification	Size classification	Product name/type
		X	X X	X X	
Symbol	<b>3 0 4 · 3 1 6 L</b>	<b>0 D P · 1 P</b>	<b>M C</b>	<b>X X</b>	<b>S B</b>
	①	②	③	④ ⑤ ⑥	⑦ ⑧ ⑨ ⑩ ⑪ ⑫

① Material classification (main body)		
Category	Symbol	Material
Standard	<b>304</b>	SUS 304 (or equivalent)
Option	<b>316L</b>	SUS 316L (or equivalent)
Special	—	—

② Finish classification							
Category	Symbol	Finish conditions					
		Ball inner surface	Nozzle pipe inner surface	Ball outer surface	Nozzle pipe outer surface	Atmosphere part outer surface	Parts
Standard	<b>ODP</b>	PP	PP	BM	BM	GB	PP
Option	<b>0P</b>	PP	PP	PP	PP	GB	PP
	<b>2P</b>	PP	PP	BM	BM	BM	PP
	<b>EP (1P)</b>	PP	PP	EP	EP	GB	EP
	<b>EP (2P)</b>	PP	PP	EP	EP	BM	EP
[Legend] PP: Acid wash finish; BM: #320 to #400 buff finish; EP: Electropolished finish; GB: Bead shot finish; Parts: Pin or lock pin							

③ Pipe end classification				
Enter the connection part (piping side) x attachment part (tank side). In the case of spray ball, enter x x W.				
Symbol	<b>C</b>	<b>M</b>	<b>N</b>	<b>W</b>
Type	ISO clamp	ISO male	ISO nut	Weld

④ Ball size classification		
Category	Symbol	Ball size
Standard	<b>63</b>	Outside diameter $\phi$ 63
	<b>93</b>	Outside diameter $\phi$ 93

⑤ Nozzle pipe size classification		
Symbol	Nozzle pipe size	Category
<b>10</b>	1 <sup>S</sup>	Standard
<b>20</b>	2 <sup>S</sup>	

⑥ Tank attachment part pipe size		
Category	Symbol	SIZE
Standard	<b>30</b>	3 <sup>S</sup>
	<b>40</b>	4 <sup>S</sup>
Option	Other	Other

⑦ Form classification		
Category	Symbol	Details
Standard	<b>E</b>	Spray ball only
	<b>N</b>	With nozzle pipe

⑧ Spray type classification		
Category	Symbol	Details
Standard	<b>A</b>	Spraying equally through 360°
	<b>B</b>	Spraying equally through upper 270°
	<b>C</b>	Spraying equally through upper 210°
	<b>D</b>	Spraying equally through lower 210°
Option	<b>X</b>	Spraying equally A through D (Necessary to design additionally.)
	<b>P</b>	Pinpoint spraying type (Necessary to design additionally.)

⑨ Spray ball hole diameter classification							
Other	<b>10</b>	<b>12</b>	<b>15</b>	<b>18</b>	<b>20</b>	<b>25</b>	<b>30</b>
Hole diameter	$\phi$ 1.0	$\phi$ 1.2	$\phi$ 1.5	$\phi$ 1.8	$\phi$ 2.0	$\phi$ 2.5	$\phi$ 3.0
	Ø63 range				Ø93 range		

⑩ Nozzle pipe specification classification		
Category	Symbol	Details
Standard	<b>0</b>	No cleaning hole except for spray ball hole
Option	<b>1</b>	With an upper cleaning hole
	<b>2</b>	With an upper cleaning hole and an intermediate-part nozzle tip
	<b>9</b>	Other special specifications

⑪ Use purpose classification	
Symbol	Details
<b>S</b>	Tank cleaning
<b>J</b>	Diffusion spraying
<b>D</b>	Defoaming, dispersion/mixing
<b>X</b>	Other

⑫ Nozzle length classification (Enter only for products equipped with a nozzle pipe.)		
Category	Symbol	Details
Standard	<b>0200</b>	The distance from the lower part of attachment coupling to the ball center is 200mm.
	<b>0300~1900</b>	Setting every 10mm
	<b>2000</b>	The distance from the lower part of attachment coupling to the ball center is 2000mm.

## Type symbol table of rotating spray cleaner (RSC)

Name	JIS material classification	Finish classification	Pipe end classification	Size classification	Product name/type
		X	X X	X X	
Symbol	<b>3 0 4 · 3 1 6 L</b>	<b>1 P</b>	<b>C</b>	<b>2 0 X</b>	<b>R S C</b>
	①	②	③	④	⑤

① Material classification (main body)		
Category	Symbol	Material
Standard	<b>304</b>	SUS 304 (or equivalent)
Option	<b>316L</b>	SUS 316L (or equivalent)

② Finish classification			
Category	Symbol	Finish conditions	
		Internal finish	External finish
Standard	<b>0P</b>	Pickling	Pickling or beads shot brast
	<b>1P</b>	#320 to #400 buff polishing	Pickling or beads shot brast
	<b>2P</b>	#320 to #400 buff polishing (Ra 0.2)	#180 Hairline finish
Option	<b>ODP</b>	Pickling	#180 Hairline finish
	<b>EP (1P)</b>	Electrolytic polishing finish (Ra 0.2)	Pickling or beads shot brast
	<b>EP (2P)</b>	Electrolytic polishing finish (Ra 0.2)	#180 Hairline finish
	<b>XP</b>	Special	Special

③ Pipe end classification		
Category	Symbol	Details
Standard	<b>C</b>	ISO clamp
Special	<b>X</b>	—

④ Pipe connection size classification	
Symbol	Details
<b>20</b>	ISO 2S clamp

⑤ Nozzle length classification	
Symbol	Details
<b>0600~1400</b>	600~1400mm

⑥ Ball size classification	
Symbol	Details
<b>RSC</b>	Rotation type spray

⑦ Flow rate classification	
Symbol	Details
<b>1</b>	—
<b>2</b>	Above 10m³/Hr and 15m³/Hr or less
<b>3</b>	Above 15m³/Hr and 20m³/Hr or less
<b>4</b>	Above 20m³/Hr and 25m³/Hr or less
<b>5</b>	Above 25m³/Hr and 30m³/Hr or less
<b>6</b>	Above 30m³/Hr

⑧ Pressure classification	
Symbol	Details
<b>1</b>	0.2MPa or less
<b>2</b>	Above 0.2MPa and 0.25MPa or less
<b>3</b>	Above 0.25MPa and 0.3MPa or less
<b>4</b>	0.3MPa or more

⑨ Slit shape	
Symbol	Details
<b>A</b>	1×12mm
<b>B</b>	1.5×12mm
<b>C</b>	2.0×12mm
<b>0</b>	No slit

⑩~⑭ Nozzle specification classification	
Symbol	Details
<b>⑩</b>	Shows flow rate and injection angle of Nozzle I
<b>⑪</b>	Shows mounting angle of Nozzle II
<b>⑫</b>	Shows flow rate and injection angle of Nozzle II
<b>⑬</b>	Shows mounting angle of Nozzle III
<b>⑭</b>	Shows flow rate and injection angle of Nozzle III
Mounting angle of Nozzle I is $\alpha = 32.5^\circ$	

⑮ Feedback switches classification	
Symbol	Details
<b>P</b>	Effector IGT214 (Heat resistance: 100°C or less; DC10-30V) 2-wire/4-wire type (NPN, PNP) (E10906 with 5m cable) Protection type
<b>B</b>	Sensor Giken HA-141-8266E (Heat resistance: 120°C or less; special amplifier is required separately) (MS-550-DT)
<b>Y</b>	Sensor Giken HA-141 (Heat resistance: 120°C or less; with AC100V special amplifier)

⑪⑬ Mounting angle of Nozzles II and III	
Symbol	Details ( $\alpha^\circ$ 、 $\beta^\circ$ )
<b>1</b>	10.0°
<b>2</b>	17.5°
<b>3</b>	25.0°
<b>4</b>	32.5°
<b>5</b>	40.0°
<b>6</b>	47.5°
<b>7</b>	45.0°
<b>8</b>	20.0°
<b>9</b>	62.5°

⑩⑫⑭ Nozzle type classification			
Details	Injection angle (°)	Flow rate (m³/Hr)	Outside diameter (mm)
Symbol			
<b>A</b>	65	1.5	17
<b>B</b>		3	25
<b>C</b>		6	30
<b>D</b>		9	30
<b>E</b>		4.5	25
<b>F</b>	40	1.5	17
<b>G</b>		3	25
<b>H</b>		6	30
<b>J</b>		9	30
<b>K</b>		4.5	25
<b>L</b>	90	1.5	17
<b>M</b>		3	25
<b>N</b>		6	30
<b>P</b>		9	30

## Type symbol table of tank safety unit

Name	JIS material classification	Finish classification	Pipe end classification	Size classification	Product name/type
Symbol	<b>3 0 4</b> ·	<b>1 P</b>	× ×		<b>T S U</b>
	① ② ③	④	⑤	⑥ ⑦ ⑧ ⑨	⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯

## ① Material classification (main body)

Category	Symbol	Material
Standard	<b>304</b>	SUS 304 (or equivalent)
Option	<b>316L</b>	SUS 316L (or equivalent)
Special	—	—

## ② Packing material classification

Symbol	Blank	<b>A</b>
Seat material	SPRB (HNBR + PTFE coating)	
Flange packing	PTFE	PTFE
Joint material	VMQ	FKM
Application	General use	Acid-proof

## ③ Cold region specification classification

Symbol	Details	Remarks
Blank	Without PTFE coating	Standard
<b>T</b>	With PTFE coating	Option

## PTFE coating range

PRV	Disc & valve seat
VRV	Disc & valve seat
Switching valve	Valve seat B & shaft K

## ④ Finish classification

Category	Symbol	Finish conditions	
		Internal finish	External finish
Standard	<b>0P</b>	Pickling	Pickling or beads shot brast
	<b>1P</b>	#320 to #400 buff polishing	Pickling or beads shot brast
	<b>2P</b>	#320 to #400 buff polishing (Ra 0.2)	#180 Hairline finish
Option	<b>ODP</b>	Pickling	#180 Hairline finish
	<b>EP (1P)</b>	Electrolytic polishing finish (Ra 0.2)	Pickling or beads shot brast
	<b>EP (2P)</b>	Electrolytic polishing finish (Ra 0.2)	#180 Hairline finish
	<b>XP</b>	Special	Special

## ⑤ Pipe connection (pipe end) classification

Symbol	Details
—	Not provided
<b>C</b>	ISO clamp
<b>T</b>	Sanitary flange
Connection part	1 CIP inlet
	2 Exhaust outlet
	3 Air supply inlet
	4 Drain outlet

## ⑥ VRV size classification

Symbol	Details	Applicable manifold size	Remarks
<b>30</b>	3 <sup>S</sup> × 1*	125A	Refer to Page 7 for capacity selection.
<b>40</b>	4 <sup>S</sup> × 1*		
<b>50</b>	5 <sup>S</sup> × 1*		
<b>44</b>	4 <sup>S</sup> × 2*	200A	
<b>55</b>	5 <sup>S</sup> × 2*		
No. of units for 1 set			

## ⑦ VRV set pressure classification

Symbol	Details	Remarks
<b>2</b>	Set pressure —1470Pa (—150mmH <sub>2</sub> O)	Standard
<b>1</b>	Set pressure —980Pa (—100mmH <sub>2</sub> O)	Option
<b>8</b>	Set pressure —780Pa (—80mmH <sub>2</sub> O)	

## ⑧ PRV size classification

Symbol	Details	Remarks
<b>10</b>	1 <sup>ø</sup> PRV	Refer to Page 7 for capacity selection.
<b>20</b>	2 <sup>ø</sup> PRV	
<b>30</b>	3 <sup>ø</sup> PRV	
<b>40</b>	4 <sup>ø</sup> PRV	

## Type symbol table of tank safety unit

⑨ PRV set pressure classification	
Symbol	Details
□□□	Enter the pressure within the range of 0.02 to 0.17MPa. * Products over 0.17MPa cannot be manufactured.

⑩ Manifold size classification		
Symbol	Details	Remarks
5	125A $\phi$ 139.8×t3	Refer to VRV size
8	200A $\phi$ 216.3×t3	
X	Other special size	—

⑪ Tank mounting flange size classification		
Symbol	Details	Remarks
5	125A JIS flange	Same size as (10)
8	200A JIS flange	
X	Other special size	—

⑫ 000		
Symbol	Details	Remarks
5	JIS 5K flange	Standard
1	JIS 10K flange	
X	Other special size	—

⑬ Cleaning specification classification	
Symbol	Details
RA0 } RZ9	Based on abbreviated symbols of individual type symbol (RSC)
BA0 } BZ9	Based on abbreviated symbols of individual type symbol (SBE)
000	No cleaning equipment
X00 } X99	Special product

⑭ Cip-vent switching classification		
Symbol	Details	Remarks
V	Valve 2S SK03J*****X*	Standard
0	Not provided	
F	Float chamber 2 <sup>s</sup>	Option
X	Other	—

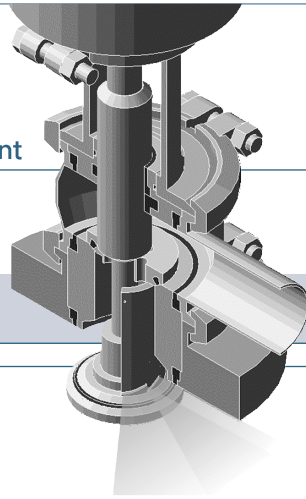
⑮ Presence/absence of air supply pipe and size		
Symbol	Details	Remarks
0	Not provided	Standard
2	With 2 <sup>s</sup> air supply nozzle	
4	With 4 <sup>s</sup> air supply nozzle	
X	Other special size	—

⑯ Presence/absence of exhaust pipe and size		
Symbol	Details	Remarks
0	Not provided	Standard
2	With 2 <sup>s</sup> air supply nozzle	
X	Other special size	—

## Sanitary tank cleaning equipment

SCV<sub>type</sub>

- Dynamic surface cleaning



This is a cleaning valve equipped with a cleaning nozzle to generate an ultra-thin film of water continuously. This valve exerts a more excellent cleaning effect than conventional point spray and linear spray.

- Cleaning of silos
- Cleaning of spray driers
- Cleaning of large-sized ducts
- Partial cleaning of large-sized ducts
- Cleaning of tunnel freezers
- Integrated spray nozzle/automatic valve

The nozzle part protrudes during cleaning and is stored in the valve when not cleaning, so that it becomes flush with the cleaning surface to provide excellently sanitary conditions.

## Material

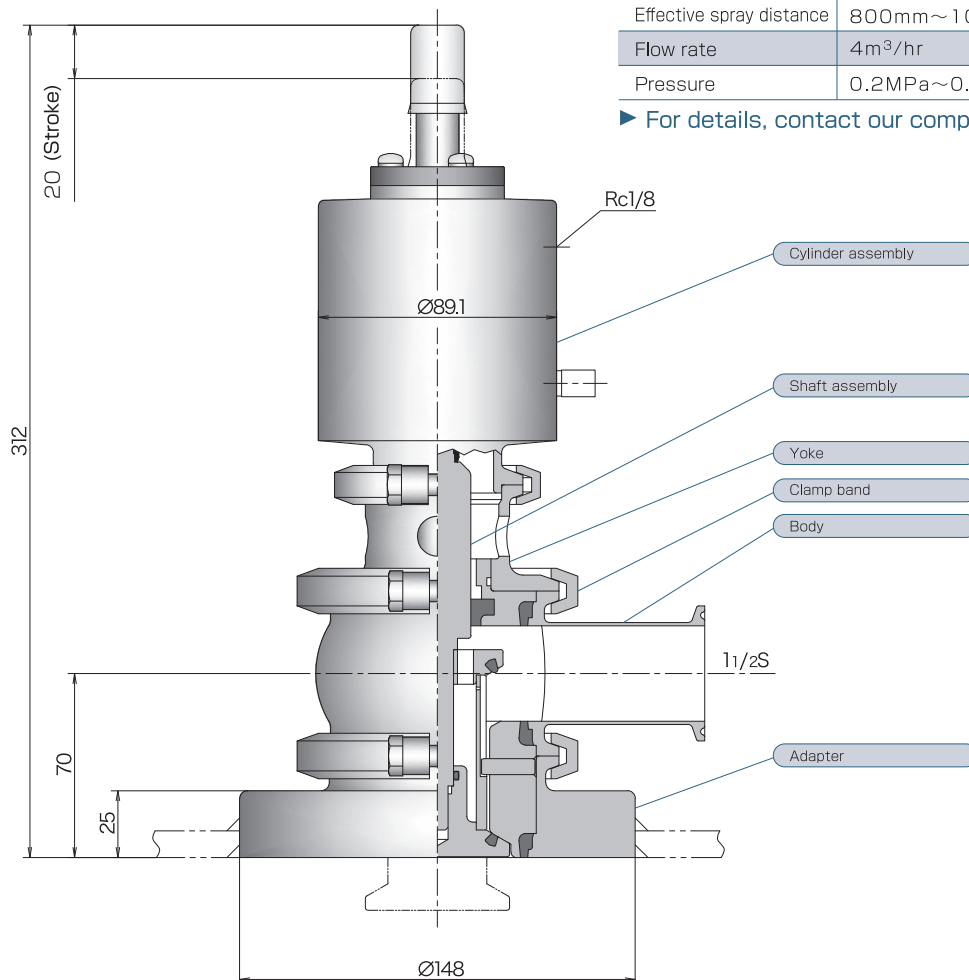
SUS-304

SUS-316L

## Production standard

Surface finish	Internal: #320 to #400 buff polishing
Dimensional accuracy	Surface-to-surface dimension: +1.5mm Angular tolerance: +0.5°
Main body max pressure	1Ma (water pressure, normal temperature)
Valve seat max pressure	0.5Ma (water pressure, normal temperature)
Operation air connection hole	0.4MPa
Use temperature	0~100℃
Effective spray distance	800mm~1000mm
Flow rate	4m <sup>3</sup> /hr
Pressure	0.2MPa~0.4MPa

► For details, contact our company.



## Sanitary tank safety equipment

## DRV type

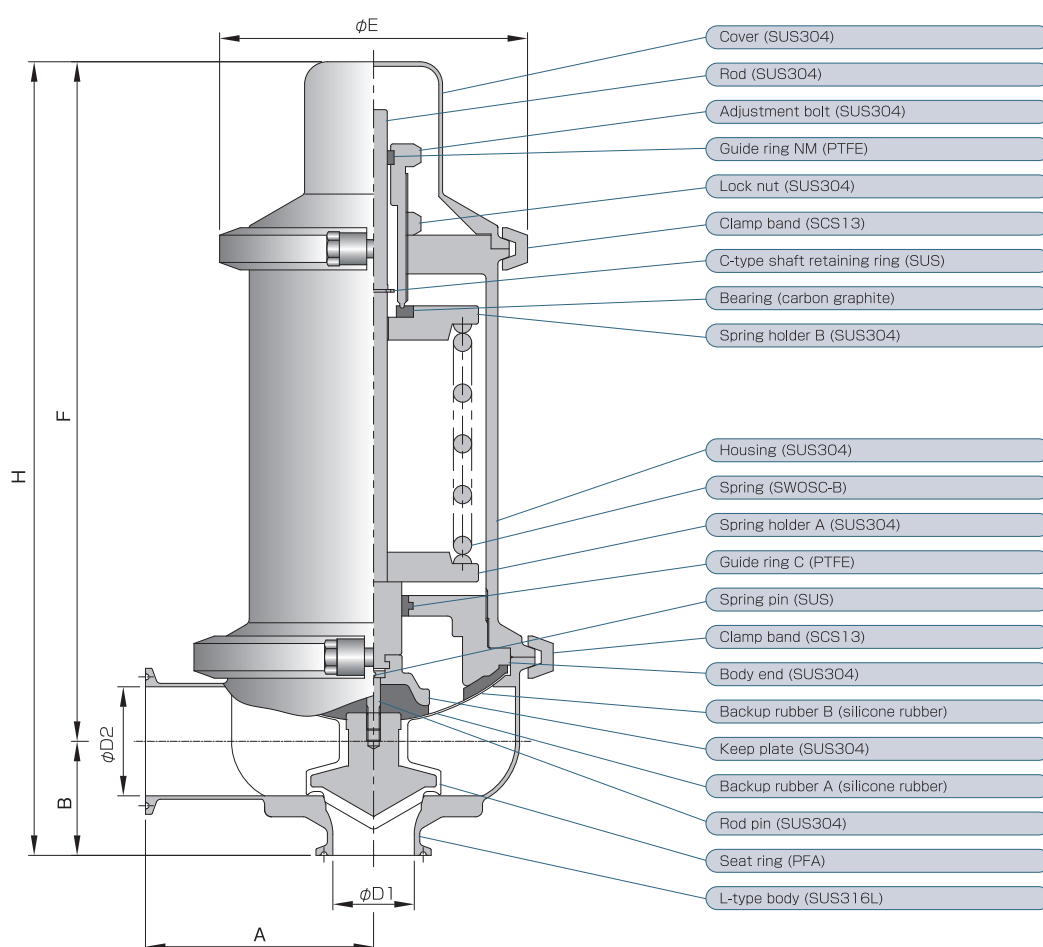
● DRV-type safety valve/relief valve

( JIS B 8210 )



This is a pump-head safety valve with a diaphragm seat having an integrated diaphragm film and plug valve made of fluororesin for gas/steam where high sanitary properties are required.

This valve can also be used as a release valve or a back-pressure valve.



Units (mm)

Nominal dia.	Inlet side		Outlet side		A	B	φE	F	H
	Size	φD1	Size	φD2					
1S	1S	23	1.5S	35.7	85	40	105	233.8	273.8
1.5S	1.5S	35.7	2S	47.8	100	50	135	297.9	347.9
2S	2S	47.8	2.5S	59.5	105	60	135	303.8	363.8
2.5S	2.5S	59.5	3S	72.3	110	68	135	310.2	378.2
3S	3S	72.3	3S	72.3	110	68	135	310.2	378.2

## DRV-type safety valve/relief valve type symbol table

Name	JIS material classification	Finish classification	Pipe end classification	Size classification	Product name/type
Symbol	<b>3 1 6 L</b>	<b>E P ( 2 P )</b>	<b>C</b>	<b>(      ) M</b>	<b>D R V 2</b>
				①      ②	③ ④      ⑤

**Material classification 316L**

- Main body classification: SUS316L
- Seat material: PFA

**Finish classification EP (2P)**

- Finish of wetted surfaces: #400 buff polishing + electrolytic polishing finish

**Pipe end classification C**

- ISO ferrule

**① Size classification**

Symbol	Details
	Inlet side (bore) x outlet side (bore)
<b>10</b>	1S (φ23.0) × 1.5S (φ35.7)
<b>15</b>	1.5S (φ35.7) × 2S (φ47.8)
<b>20</b>	2S (φ47.8) × 2.5S (φ59.5)
<b>25</b>	2.5S (φ59.5) × 3S (φ72.3)
<b>30</b>	3S (φ72.3) × 3S (φ72.3)

**② Set pressure: Values based on MPa units (0.10 to 0.40)**

Symbol	Details
※※※	Input set pressure in MPa units to two decimal place.

**③ Main body type**

Symbol	Details
<b>L</b>	L type
<b>T</b>	T type

**④ Applicable fluid classification**

Symbol	Details
<b>S</b>	Saturated vapor
<b>G</b>	Gas
<b>L</b>	Liquid

**⑤ Additional specification classifications**

Contact us separately.

**Specifications for diaphragm-type safety valves**

When ordering safety valves, inform us of the following items.					
Application	<input type="checkbox"/> Tank ( <input type="checkbox"/> Class I pressure vessel <input type="checkbox"/> Class II pressure vessel <input type="checkbox"/> Other(      ) ※1				
	<input type="checkbox"/> Line (Line size      )				
Applicable fluid	<input type="checkbox"/> Steam (Saturation temperature      )				
	<input type="checkbox"/> Gas <input type="checkbox"/> Air <input type="checkbox"/> Other (      )    Fluid temperature      °C				
Set pressure	MPa G	Back pressure	MPa G	Specified blowing amount	kg/h
Size Inlet (outlet)	<input type="checkbox"/> 1s(1.5s) <input type="checkbox"/> 1.5s(2s) <input type="checkbox"/> 2s(2.5s) <input type="checkbox"/> 3s(3s)				If the size is specified, the blowing amount is fixed.

※ 1: Classified by Japanese industrial safety and health law.

## Common specifications

Material	Wetted surface: SUS316L/PFA		
Finish	#400 buff polishing + electrolytic polishing finish (Ra0.2)		
Pipe end	ISO ferrule		
Withstand pressure	Main body withstand pressure: 0.5MPa	Set pressure range	0.10 to 0.40MPa (value to two decimal places)
Heat resistance	150°C	Type	Pump-head type safety valve



Headquarters:

1-32, Honden 2-chome, Nishi-ku, Osaka 550-0022  
TEL: +81-6-6585-0700 FAX: +81-6-6586-0708

Trade Department:

TEL: +81-6-6585-2277 FAX: +81-6-6586-0708

TOSTE VIETNAM CO.,LTD

Rental Factory 5-1, Road N3-2, Long Duc IP,  
Long Duc Ward, Long Thanh district,  
Dong Nai province, Vietnam  
TEL: +84-251-368-1800 FAX: +84-251-368-1881

肇慶東洋新島不銹鋼工程有限公司

〒526072 肇慶市鼎湖区蓮花鎮 7 区蓮信路  
TEL: +86-758-2619887  
FAX: +86-758-261978