



Hygienic Single Seal Valves

High reliable products derived from advanced technologies



Material

SUS-304 (or equivalent)

SUS-316L (or equivalent)

Production standard

Surface finish	Internal: #320 to #400 buff polishing finish External: Beads shot blast
Dimensional tolerace	Face to face dimension: ±1.5mm Angular tolerance: ±0.5°
Main body max pressure	1MPa (water pressure, normal temperature)
Valve seat max pressure	As shown in selection table on page 16 (water pressure, normal temperature)
Operating air pressure	As shown in selection table on page 16 (water pressure, normal temperature)
Operating air connection hole	Rc 1/4
Heat resistance	120°C

 $[\]ensuremath{^{*}}$ When welding the tank spud, use extra caution to prevent it from being

Valve selection and ordering

Please use valves according to respective valve specifications. If an application exceeds the range of specifications, high safety design is required. We would be pleased to offer consultation if you provide us with information.

Ordering

- O If there is any request of surface finish, please specify both internal and external surface.
- OFor further details, refer to the single-seal SQ valve type details on pages 17 and 18.

deformed due to heat.
(If the tank spud is distorted, the sealing of the tank cannot be maintained, which may result in liquid leakage and corrosion.)

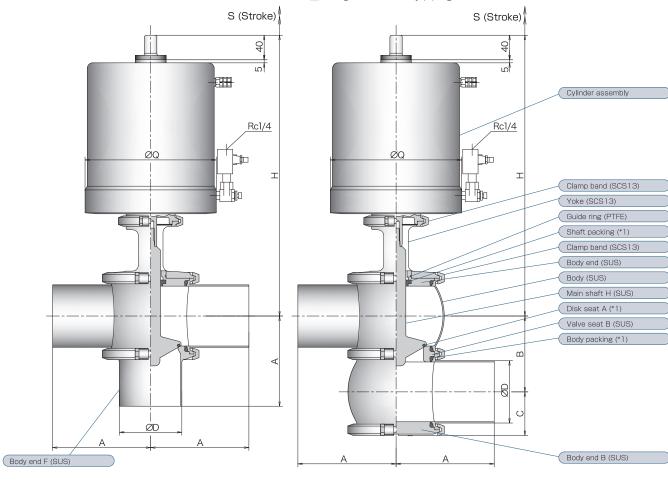
SHtype

On-off valve



There are a wide variety of sizes, options, etc., and all provide excellent sanitariness.

For general sanitary piping



2T type

2A type

*1 Refer to "Characteristics of packings, etc." on Page 16.

							(mm)_
SIZE	φD	A Note)	В	С	Н	Q	S
11/2	38.1	100	61.7	39.4	346.9	110.8	25
2	50.8	120	73.8	45.4	352.9	110.8	30
21/2	63.5	125	85.5	51.5	396.3	135.5	35
3	76.3	140	98.3	58.4	445.2	160.5	35
4	101.6	160	123.6	71.1	457.8	214.0	40
5	139.8	200	169.8	97.7	507.9	263.5	45
6	165.2	220	195.2	110.4	520.6	263.5	45

Note) \bullet When tube end is male, nut, clamp (1½ to 4S), and sanitary flange (1½ to 6S)

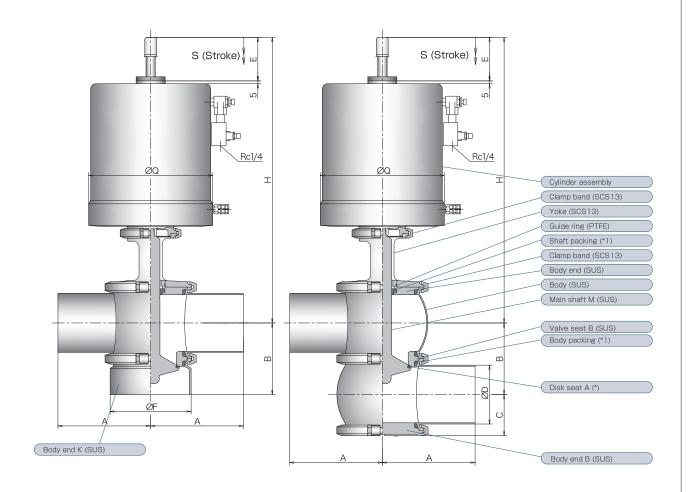
SM type

On-off valve



SM type is a top-down type and operates in the opposite way from SH type.

For general sanitary piping



2T type

2A type

*1 Refer to "Characteristics of packings, etc." on Page 16.

									(mm)
SIZE	ϕ D	A Note)	В	С	φF	Н	Q	E	S
11/2	38.1	100	61.7	39.4	76.3	366.9	110.8	60	20
2	50.8	120	73.8	45.4	76.3	372.9	110.8	60	20
21/2	63.5	125	85.5	51.5	89.1	421.3	135.5	65	25
3	76.3	140	98.3	58.4	101.6	475.2	160.5	70	30
4	101.6	160	123.6	71.1	139.8	492.8	214.0	75	35
5	139.8	200	169.8	97.7	216.3	547.9	263.5	80	40
6	165.2	220	195.2	110.4	216.3	560.6	263.5	80	40

Note) \bullet When tube end is male, nut, clamp (1 $^{1}/_{2}$ to 4S), and sanitary flange (1 $^{1}/_{2}$ to 6S)

 \bullet Q and H dimensions are when a standard cylinder with air pressure of 0.4MPa is used.

SK type

Switching valve

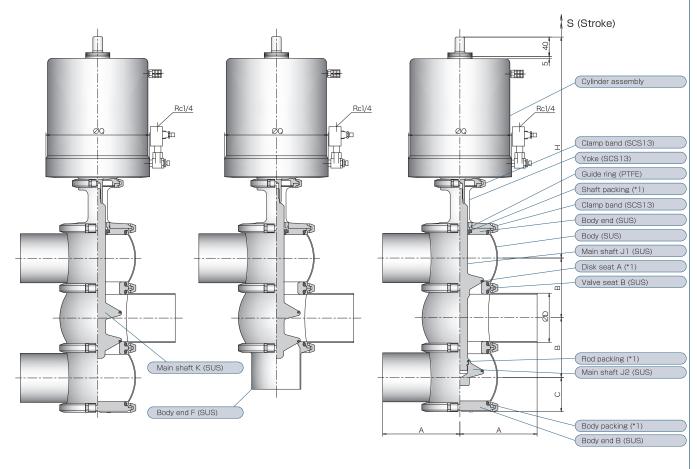


SJ type

Branch valve



SK and SJ types can perform switching and branching without dead corners.



3Atype

3Jtype

3Atype

*1 Refer to "Characteristics of packings, etc." on Page 16.

								(mm)
SIZE	φD	A ^{Note)}	В	С	Н	Q	S (SK type)	S (SJ type)
1 1/2	38.1	100	61.7	39.4	346.9	110.8	21	16
2	50.8	120	73.8	45.4	352.9	110.8	21	16
21/2	63.5	125	85.5	51.5	396.3	135.5	27	27
3	76.3	140	98.3	58.4	445.2	160.5	32	29
4	101.6	160	123.6	71.1	457.8	214.0	35	35
5	139.8	200	169.8	97.7	507.9	263.5	41	39
6	165.2	220	195.2	110.4	520.6	263.5	41	39

Note) \bullet When tube end is male, nut, clamp (1 $^{1}/_{2}$ to 4S), and sanitary flange (1 $^{1}/_{2}$ to 6S)

 \blacksquare Q and H dimensions are when a standard cylinder with air pressure of 0.4MPa is used.

Tank valve

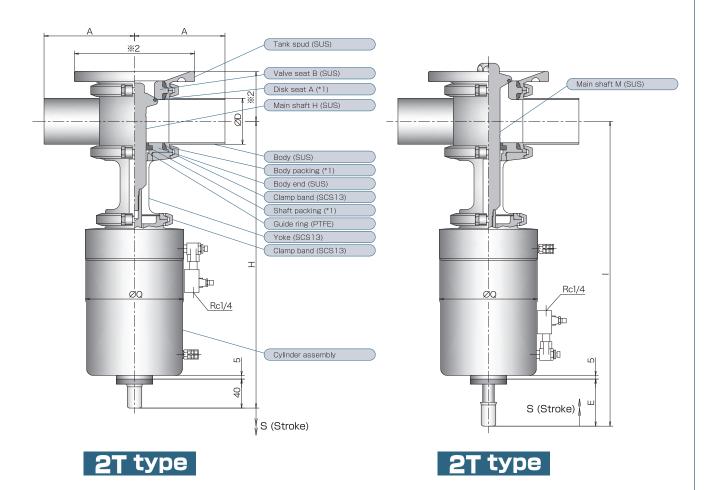


Single-seal SQ valve

Tank valve



KH and KM types are designed to be used as tank valves and use the shaft packing as the shaft seal and the body packing as the main body seal. For this reason, these types are better in cleaning performance than O-ring types and are structured to make pitting corrosion, crevice corrosion, etc. less likely to occur.



*1 Refer to "Characteristics of packings, etc." on Page 16.

							(mm)
SIZE	φ D	A ^{Note)}	Н	l	Е	S (KH type)	S (KM type)
11/2	38.1	100	358.1	366.9	60	25	20
2	50.8	120	370.4	372.9	60	30	20
21/2	63.5	125	419.8	421.3	65	35	25
3	76.3	140	475.2	475.2	70	35	30
4	101.6	160	500.8	492.8	75	40	35
5	139.8	200	569.9	547.9	80	45	40
6	165.2	220	595.6	560.6	80	45	40

Note) \bullet When tube end is male, nut, clamp (1 $^{1}/_{2}$ to 4S), and sanitary flange (1 $^{1}/_{2}$ to 6S)

- Q and H dimensions are when a standard cylinder with air pressure of 0.4MPa is used.
 *2 varies depending on tank dimensions and shape.

 $^{^{\}ast}$ When welding the tank spud, use extra caution to prevent it from being deformed due to heat. (If the tank spud is distorted, the sealing of the tank cannot be maintained, which may result in liquid leakage and corrosion.)

SHtype

- On-off valve
- Bottom-up type

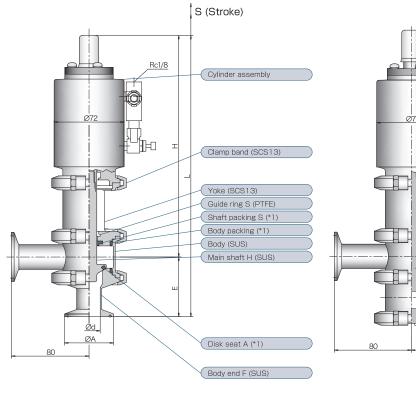


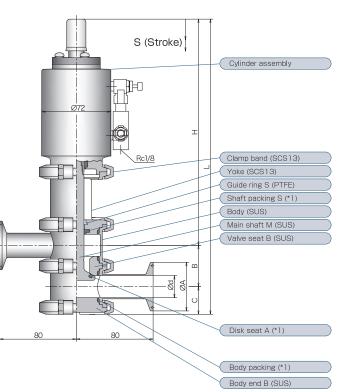
SM type

- On-off valve
- Top-down type



These valves have a wide variety of models as a single-seal valve and can be used as an on-off valve for general sanitary piping. Two types: Bottom-up type (SH type) and top-down type (SM type) are available.





2L type

2A type

*1 Refer to "Characteristics of packings, etc." on Page 16.

						(mm)
SIZE	L	Н	Е	Α	d	S
10A	264	207	57	34	14.0	4
15A	268.4	209.2	59.2	34	18.4	7
18	273	211.5	61.5	50.5	23.0	7

							(mm)
SIZE	L	Н	В	С	Α	d	S ^{Note)}
10A	270.3	212	34	24.3	34	14.0	7
15A	279.1	214.2	38.4	26.5	34	18.4	10
18	288.3	216.5	43	28.8	50.5	23.0	10(7)

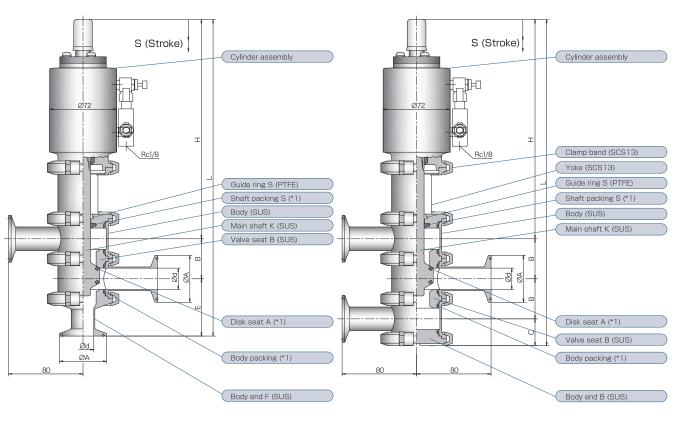
Note: The values in parentheses are for when the main body type is 2L or 2T.

SK type

Switching valve



This valve is used as a switching valve. In addition, this valve can perform switching without dead corners.



3J type

3A type

*1 Refer to "Characteristics of packings, etc." on Page 16.

							(mm)
SIZE	L	Н	В	Е	Α	d	S
10A	303	212	34	57	34	14.0	5
15A	311.8	214.2	38.4	59.2	34	18.4	6
18	321	216.5	43	61.5	50.5	23.0	6

							(mm)
SIZE	L	Н	В	С	Α	d	S
10A	304.3	212	34	24.3	34	14.0	5
15A	317.5	214.2	38.4	26.5	34	18.4	6
18	331.3	216.5	43	28.8	50.5	23.0	6

$\mathsf{MH}_{\mathsf{type}}$

- Diaphragm type ON/OFF valve
- Bottom-up type



Single-seal valve

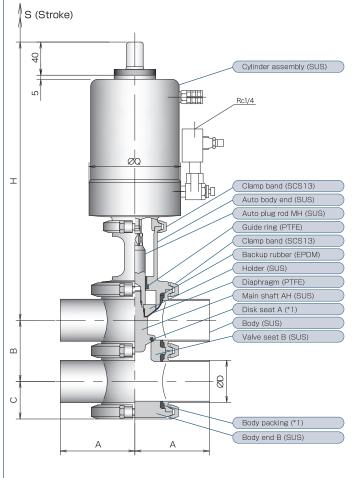
MM type

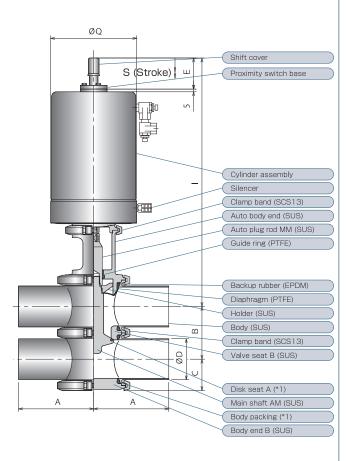
- Diaphragm type ON/OFF valve
- Top-down type



MH type and MM type are valves whose shafts are sealed with a PTFE diaphragm, which prevents the inside from becoming contaminated during operation of the valve.

Rubber-based (EPDM, FKM) materials and fluororesin linings can be selected for the disk seat.





20type

2Dtype

*1 Refer to "Characteristics of packings, etc." on Page 16.

									(mm)
SIZE	φD	Α	В	С	Н	I	ϕ Q	Е	S
1	25.4	80	43.0	28.8	228.4	234.4	72.0	46	6
1 1/2	38.1	100	61.7	39.4	329.9	341.9	110.8	52	12
2	50.8	120	73.8	45.4	335.9	347.9	110.8	52	12
21/2	63.5	125	85.5	51.5	396.3	411.3	135.5	55	15
3	76.3	140	98.3	58.4	445.1	463.1	160.5	58	18
4	101.6	160	123.6	71.1	457.8	482.8	214.0	65	25
5	139.8	200	169.8	97.6	507.9	547.9	263.5	80	40
6	165.2	220	195.2	110.3	520.6	560.6	263.5	80	40

type

- Disk-seat-less diaphragm on-off valve
- Bottom-Up type



Disk-seat-less single-seal valve

type

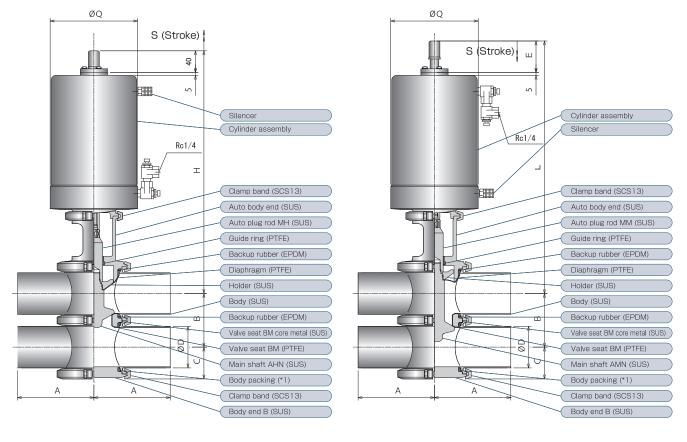
- Disk-seat-less diaphragm on-off valve
- Top-down type



• By omitting the disc seat groove, there is no seeping behind and this NH type, NM type valve does not need disc seat installing work.

These types make possible to perform maintenance easily and to extend maintenance interval significantly. Furthermore, shafts are sealed with PTFE diaphragm to prevent the inside from being contaminated even during operation of

This valve cannot be used for liquids containing hard solids.



2D type

2D type

*1 Refer to "Characteristics of packings, etc." on Page 16.

									(mm)
SIZE	φ D	A Note)	В	С	Н	L	E	ϕ Q	S
11/2	38.1	100	61.7	39.4	329.9	341.9	52	110.8	12
2	50.8	120	73.8	45.4	335.9	347.9	52	110.8	12
21/2	63.5	125	85.5	51.5	396.3	411.3	55	135.5	15
3	76.3	140	98.3	58.4	445.1	463.1	58	160.5	18
4	101.6	160	123.6	71.1	457.8	482.8	65	214.0	25

Note) \bullet When tube end is male, nut, clamp (11/2 to 4S), and sanitary flange (11/2 to 4S)

Q and H dimensions are when a standard cylinder with air pressure of 0.4MPa is used.
 For NH, NM type, only same diameter sizes of 1½ to 4S are available.

LH type

- Diaphragm type ON/OFF valve
- Top-down type



Disk-seat-less single-seal valve

LM type

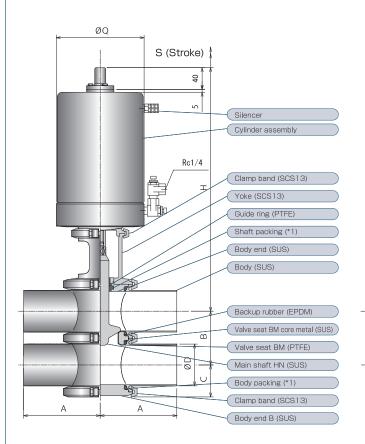
- Diaphragm type ON/OFF valve
- Top-down type

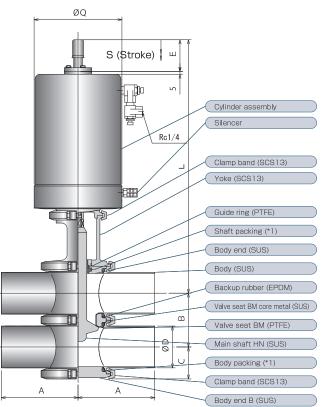


 By omitting the disc seat groove, there is no seeping behind and this LH type, LM type valve does not need disc seat installing work.

These types make possible to perform maintenance easily and to extend maintenance interval significantly.

* This valve cannot be used for liquids containing hard solids.









*1 Refer to "Characteristics of packings, etc." on Page 16.

										(mm)
SIZE	φ D	A Note)	В	С	Н	L	E	ϕ Q	S(LH)	S(LM)
1 1/2	38.1	100	61.7	39.4	346.9	366.9	60	110.8	25	20
2	50.8	120	73.8	45.4	352.9	372.9	60	110.8	30	20
21/2	63.5	125	85.5	51.5	396.3	421.3	65	135.5	35	25
3	76.3	140	98.3	58.4	445.2	475.2	70	160.5	35	30
4	101.6	160	123.6	71.1	457.8	492.8	75	214.0	40	35

Note) \bullet When tube end is male, nut, clamp (1½ to 4S), and sanitary flange (1½ to 6S)

• Q and H dimensions are when a standard cylinder with air pressure of 0.4MPa is used.

For LH, LM type, only same diameter sizes of 1 1/2 to 4S are available.

type

- Disc-seat-less diaphragm type ON/OFF valve
- Bottom-type
- Tank valve



Disk-seat-less single-seal valve

type

- Disc-seat-less diaphragm type ON/OFF valve
- Top-down type
- Tank valve

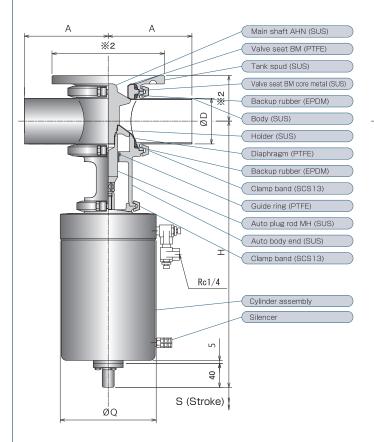


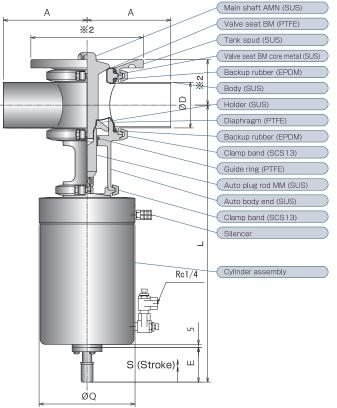
• By omitting the disc seat groove, there is no seeping behind and this TH type, TM type valve does not need disc seat installing work.

These types make possible to perform maintenance easily and to extend maintenance interval significantly.

Furthermore, shafts are sealed with PTFE diaphragm to prevent the inside from being contaminated even during operation of valves.

* This valve cannot be used for liquids containing hard solids.





2T type

2T type

*1 Refer to "Characteristics of packings, etc." on Page 16.

									(mm)
SIZE	ϕ D	A ^{Note)}	В	С	Н	L	E	ϕ Q	S
11/2	38.1	100	61.7	39.4	329.9	341.9	52	110.8	12
2	50.8	120	73.8	45.4	335.9	347.9	52	110.8	12
21/2	63.5	125	85.5	51.5	396.3	411.3	55	135.5	15
3	76.3	140	98.3	58.4	445.1	463.1	58	160.5	18
4	101.6	160	123.6	71.1	457.8	482.8	65	214.0	25

Note) \bullet When tube end is male, nut, clamp (1 $^{1}/_{2}$ to 4S), and sanitary flange (1 $^{1}/_{2}$ to 4S)

- Q and H dimensions are when a standard cylinder with air pressure of 0.4MPa is used.
- *2 varies depending on tank dimensions and shape.
- For TH, TM type, only same diameter sizes of 1½ to 4S are available.

* When welding the tank spud, use extra caution to prevent it from being deformed due to heat. (If the tank spud is distorted, the sealing of the tank cannot be maintained, which may result in liquid leakage and corrosion.)

BHtype

- Disc-seat-less diaphragm type ON/OFF valve
- Bottom-up type
- Tank valve



Disk-seat-less single-seal valve

BM type

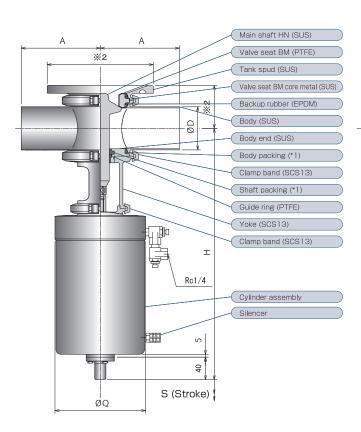
- Disc-seat-less diaphragm type ON/OFF valve
- Top-down type
- Tank valve

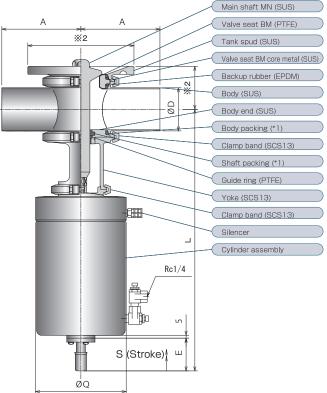


 By omitting the disc seat groove, there is no seeping behind and this BH type, BM type valve does not need disc seat installing work.

These types make possible to perform maintenance easily and to extend maintenance interval significantly.

* This valve cannot be used for liquids containing hard solids.





2T type

2T type

*1 Refer to "Characteristics of packings, etc." on Page 16.

(mm)

SIZ	Έ	ϕD	A Note)	Н	L	E	ϕ Q	S(BH)	S(BM)
11/	'2	38.1	100	346.9	366.9	60	110.8	25	20
2		50.8	120	352.9	372.9	60	110.8	30	20
21/	2	63.5	125	396.3	421.3	65	135.5	35	25
3		76.3	140	445.2	475.2	70	160.5	35	30
4		101.6	160	457.8	492.8	75	214.0	40	35

Note) ● When tube end is male, nut, clamp (11/2 to 4S), and sanitary flange (11/2 to 4S)

- Q and H dimensions are when a standard cylinder with air pressure of 0.4MPa is used.
- *2 varies depending on tank dimensions and shape.
- For BH, BM type, only same diameter sizes of 1½ to 4S are available.

* When welding the tank spud, use extra caution to prevent it from being deformed due to heat.

(If the tank spud is distorted, the sealing of the tank cannot be maintained, which may result in liquid leakage and corrosion.)

Option

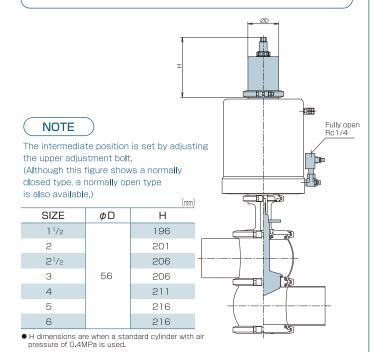
2-position cylinder

Option symbol

Attaching this unit enables control at 2 positions: Fully closed or fully open, and an arbitrary intermediate position.

For example, it is possible to perform 2-stage flow-rate control during filling, such as CIP liquid to gas and CIP liquid to product.

(Fully open - Half open or fully closed - Half open)

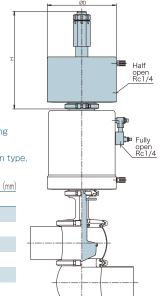


3-position cylinder

NOTE

Attaching this unit enables control at 3 positions: fully closed, fully open, and arbitrary intermediate position. For example, it is possible to perform 3-stage flow rate control by flowing product liquid with the valve fully closed and half-open and flowing CIP liquid with the valve fully open.

(Fully open - Half open - Fully closed)



The intermediate position is set by adjusting the upper adjustment bolt.

(Although this figure shows a normally open type. a normally closed type is also available.)

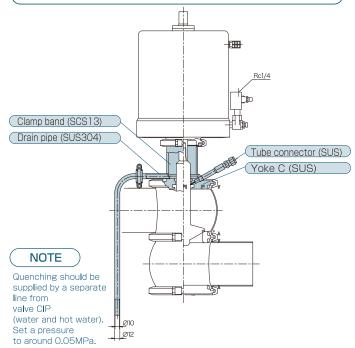
		(mm)
SIZE	φD	Н
1 1/2	108.5	220
2	108.5	220
21/2	162	235
3	162	235
4	215	250
5	215	250
6	215	250

H dimensions are when a standard cylinder with air pressure of 0.4MPa is used.

Shaft quenching

Option symbol

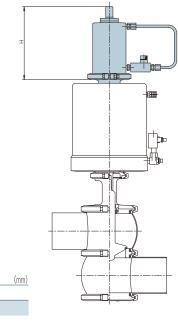
When valve surrounding condition is contaminated, cleaning the shaft before and after valve operation prevents contaminated materials.



Oil damper

Option symbol

If the flow direction flows backward, water hammer may occur. Attaching this oil damper enables valves to be opened and closed smoothly and prevents occurrence of water



SIZE	Н
11/2~4	169
5~6	184

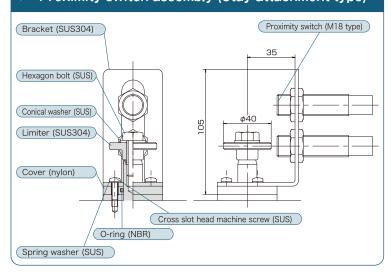


Option and maintenance jigs

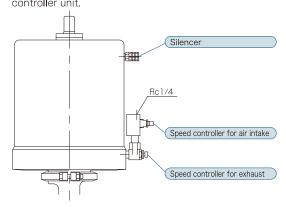
Switch assembly with cover (proximity and micro switches) A polycarbonate-resin-based limit base made by injection molding and a watertight micro switch are incorporated in the cover, which enhances the insulation withstand characteristics. Furthermore, in order to simplify instrumentation, a terminal block is provided. Perform adjustment by loosening the limit switch attachment screw and moving it up and down. Proximity switch 2-wire DC24V 100mA Limit switch NC, No. 250V 4A Cord connector PF1/2 Terminal block 6P Rod cap (NBR) 33 Cover (P.C) Proximity switch Limit switch Spacer Limit rod (SUS304) Nut (SUS304) Bracket Screw (SUS304) Limit support (SUS304) Terminal block Screw (SUS304) O-ring (NBR) Limit base (P.C) Cord connector O-ring (NBR) Cylinder assembly O-ring (NBR) O-ring Proximity switch → Micro switch

O CF/AF type with compact cover is also available as an option. For further details, refer to the catalog of No. 18 valve control head.

► Proximity switch assembly (Stay attachment type)

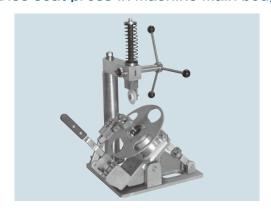


► Speed controller



Maintenance jig (optional)

Disc seat press-in machine main body



Disc seat press-in jig



These jigs are used when mounting a disc seat to a shaft.



Technical material

► Cylind	der select	ion ta	ıble 🖔			igher pressur act our comp	
Operation air	Fluid pressure			SI	ZE		
pressure MPa	MPa	10A-1S	11/2~2	21/2	3	4	5~6
	0.3	60M	100M	100M	150M	200M	200M
	0.4	60M	100M	125M	150M	200M	250M
0.4	0.5	60M	100M	125M	150M	200M	250M
0.4	0.6	*2	125M	150M	200M	250M	
	0.7	*2	125M	150M	200M	250M	
	0.8	*2	125M	150M	200M	250M	
	0.3	60H	80H	80H	125H	150H	150H
	0.4	60H	80H	100H	125H	150H	200H
0.7	0.5	60H	80H	100H	125H	150H*1	200H
	0.6	60H	100H	100H	150H	200H	250H
	0.7	60H	100H	125H	150H	200H	250H
	0.8	*2	100H	125H	150H	200H	250H

Fluororesin lining packing type

- Use for preventing smell from adhering.
 From the standpoints of mounting mechanism of shaft packing, the body end part is separate as a special part.

Lubricant application specifications

Application specifications	Application range	Note			
Standard specifications	Sliding seal part	_			
Wetted surface lubrication prohibited area	No application	Be sure to make the sliding packing area smooth with fresh water, etc.			
Lubricant	NOK Kluber PARALIQ GTE 703*1 (NSF category H				

^{*1} Conforming to the Food Sanitation Law

*1 200M for SHO and SKO *2 If the fluid pressure is higher than 0.5/0.7MPa, consult our company separatel $$	ly.

► Cylinder volume								
Bore diameter (mm)	60	80	100	125	150	200	250	
Volume (L)	0.09	0.24~0.31	0.38~0.50	0.60~0.77	0.95~1.21	1.56~2.02	2.51~3.24	

	-			<u> </u>			
► Characteristics of packings							
Item			Standard	d		Option	
ng material	EPDM (Ethylene propylene rubber)	FKM (Fluororubber)	UC rubber (High-function fluororubber)	VMQ (Silicon rubber)	HNBR (Hydrogenated nitrile rubber)	PTFE lining (Fluororesin lining)	
erial code	E81	F8	F802	SE72	Z85	TL□	
Color	Black	Black	Black	Gray	Black	White	
Steam	0	Δ	0	Δ	0	0	
Caustic soda	0	Δ	0	Δ	0	©	
Nitric acid	0	0	0	Δ	Δ	©	
Acetic acid	0	0	0	Δ	Δ	©	
Sodium hypochlorite	0	0	0	0	0	©	
Peroxyacetic acid	Δ	×	0	0	×	©	
Fragrance (limonene, etc.)	×	0	0	×	Δ	©	
Animal and vegetable oil	×	0	0	0	0	©	
Resistance to heat	130℃	120℃	130℃	120℃	120℃	130℃	
Elasticity	0	0	0	0	0	Δ	
Intensity	0	Δ	0	Δ	0	0	
icable size	1 ½~6S	1 ½~6S	1 ½~6S	1 ½~6S	1 ½~6S	1 ½~3S	
	Disc seat	Disc seat	Disc seat	_	Disc seat	Disc seat	
Part name	Body packing	Body packing	Body packing	Body packing	_	Body packing	
	Shaft packing	Shaft packing	Shaft packing	Shaft packing	_	Shaft packing	
Note	_	_	_	Combination where no packing material is designated as valve product symbol		A special part is required. (Yoke, body end) Material code and core rubber material: TLX: VMQ (Silicone) TLE: EPDM (Ethylene propylene rubber) TLZ: NHBR (Nitrile rubber)	
tion Law conformity test				Acceptable			
	Item ng material erial code Color Steam Caustic soda Nitric acid Acetic acid Sodium hypochlorite Peroxyacetic acid Fragrance (limonene, etc.) Animal and vegetable oil Resistance to heat Elasticity Intensity icable size Part name	Item Ing material Ing materi	Item Ing material Image mat	Standard Standard Control Co	Standard Standard	Standard Part Pa	

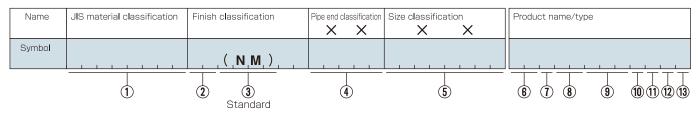
○ Very good, ○ Good, △ Possible, × Impossible

► List for c	► List for consumable parts								
Code	Disc seat A SQPA	Shaft packing *1	Body packing SQBP	Guide ring *1	Guide ring (for quenching) SQPGRC				
10A~1S	03-10	03-10	03-10	03-10 SQPGRA	03-10				
11/2	15—20	15-20	15-20	15-20 SQPGR	15—20				
2	15—20	15-20	15-20	15-20 SQPGR	15—20				
21/2	25	25-40	25	25—40 SQPGR	25—40				
3	30	25-40	30	25-40 SQPGR	25—40				
4	40	25-40	40	25—40 SQPGR	25—40				
5	50 - 60	50-60	50 - 60	50-60 SQPGR	50-60				
6	50—60	50—60	50—60	50—60 SQPGR	50—60				

 $[\]ensuremath{^{*}\text{l}}$ Product name symbols for shaft packing and guide ring vary depending on material and size.



Single-seal SQ valve type symbol table



1 Mat	erial classi	fication (main body)						
Category	Svmbol	Material						
Category	Зуппрог	Metal part	Body packing	Disc seat	Shaft packing	Applicable size		
	304	SUS 304 (or equivalent)	SE72 silicone rubber	Z85 HNBR	Z85 HNBR			
	304-E9	SUS 304 (or equivalent)	E81 EPDM	E81 EPDM	E81 EPDM			
Standard	304-FU	SUS 304 (or equivalent)	UC rubber (High-function fluororubber)	UC rubber (High-function fluororubber)	UC rubber (High-function fluororubber)	10A~6S		
	304-F	SUS 304 (or equivalent)	F8 fluororubber	F8 fluororubber	F8 fluororubber			
	316L	SUS 316L (or equivalent)	SE72 silicone rubber	Z85 HNBR	SE72 sillconerabber	10A~6S		
	316L-E9	SUS 316L (or equivalent)	E81 EPDM	E81 EPDM	E81 EPDM	104 -03		
Option	316L-FU	SUS 316L (or equivalent)	UC rubber (High-function fluororubber)	UC rubber (High-function fluororubber)	UC rubber (High-function fluororubber)	10A~6S		
	316L-F	SUS 316L (or equivalent)	F8 fluororubber	F8 fluororubber	F8 fluororubber	104 00		
	304-TL	SUS 316L (or equivalent)	VMQ + PTFE lining	VMQ + PTFE lining	HNBR + PTFE lining	1 ¹ /2S~3S		
	316L-TL	SUS 316L (or equivalent)	VMQ + PTFE lining	VMQ + PTFE lining	HNBR + PTFE lining	1 1 7 2 3 7 3 3		

2 Finish classification (valve main body)							
Category	Cumbal	Fin	Finish				
	Symbol	Internal finish	External finish				
Standard	0P	Pickling	Pickling or beads shot blast				
Stariuaru	1P	#320 to #400 buff polished finish	Pickling or beads shot blast				
Option	EP	Electrolytic polishing finish	Pickling or beads shot blast				

4 Pipe end classification				
Category	Symbol	Details		
	M	ISO male		
Standard	С	ISO clamp		
Stariuaru	Т	Sanitary flange		
	R	Sanitary flange (loose)		
	N	ISO nut		
Option	W	Weld		
	Х	Other		

Size classification						
Symbol	Size	Symbol	Size			
03	10A	25	2½S			
04	15A	30	38			
10	18	40	48			
15	1 ½S	50	58			
20	28	60	6S			

6 Тур	6 Type Classification							
Symbol	Shaft seal	Valve operation	No. of main bodies	Remarks				
SH		Bottom up	2	On-off valve				
SM		Top down	2	On-off valve				
SJ	01	Bottom up	3	Branch valve				
SK	Shaft packing	Bottom up	3	Switching valve				
KH	type	Bottom up	2	Tank valve				
KM		Top down	2	Tank valve				
MH		Bottom up	2	On-off valve				
MM	Diaphragm	Top down	2	On-off valve				
NH	type	Bottom up	2	Disc-seat-less on-off valve				
NM		Top down	2	Disc-seat-less diaphragm type on-off valve				
LH	Shaft packing	Bottom up	2	Disc-seat-less diaphragm type on-off valve				
LM	type	Top down	2	Disc-seat-less diaphragm type on-off valve				
TH	Diaphragm	Bottom up	2	Disc-seat-less diaphragm type tank valve				
TM	type	Top down	2	Disc-seat-less diaphragm type tank valve				
BH	Shaft packing	Bottom up	2	Disc-seat-less diaphragm type tank valve				
BM	type	Top down	2	Disc-seat-less diaphragm type tank valve 📝				

7 Drive classification				
Category	Symbol Details			
0+	С	Automatic normally close		
Standard	0	Automatic normally open		
Option	W	Automatic double-action		
Option	М	Manual *1		
Special	Х			

^{*1:} Manual types are available in sizes from 10A to 3S.



Technical material

8 Main body quantity and type							
Symbol	2A	2B	2C	2D	2L	2T	
Sketch	2	3 -3	3-5	-4-	2	3	
Symbol	3A	3B	3C	3D	3E	3F	
Sketch	3	4	4	5	4	5	
Symbol	3G	3H	3J	3K	3L	3M	
Sketch	5	6	3	-4-	4-5	5-5-	
Number in sketch shows number of ports.							

Cylinder type (Refer to the cylinder selection table.)					
Symbol	Туре	Symbol	Type		
06M	60M	06H	60H		
M80	80M	08H	80H		
10M	100M	10H	100H		
13M	125M	13H	125H		
15M	150M	15H	150H		
20M	200M	20H	200H		
25M	250M	25H	250H		

(10) Fee	dback sw	vitches classification					
In the	valve control s	system, different types are used for (10) and (11). Co	onsult with our company.				
Category	Symbol	Type/manufacturer	Usable power voltage range	Maximum switching current	Operation style	Type or attachment	
	D	No feedback switch					
	С	D2VW-5L2A-1M Limit switch made by OMRON	AC/DC<250V	4A	NO,NC	Type with cover	
Standard	Α	FL2R-4J6SD Proximity switch made by Azbil	DC10~30V	100mA	NO	Type with cover	
	J	IGC2005-ARKG/UP Proximity switch made by Efector	DC10~36V	100mA	NO	Type with M18 stay	
	U	FL7M-7J6HD Proximity switch made by Azbil	DC10~30V	100mA	NO	Type with M18 stay	
	R	FL7M-7K6H Proximity switch made by Azbil	DC10~30V	100mA	NC	Type with M18 stay	
	Z	Type with cov					
Special	Р	FOI HOUSTANDARD SPECIFICATIONS WITH PR	Indard specifications with proximity switch supplied Type with stay				
B Asi: For uni-wire system with a solenoid valve: For further details, refer to the catalog of valve control head.					control head.		

Number of switches used					
Symbol	Details				
0	No switch				
1	One switch on closed side				
2	Two switches on open and closed sides				
3	One switch on open side				
X	Other				

(12) Main body options					
Symbol	Details				
0	No option				
С	With Shaft quenching				
Υ	Diaphragm tank valve				

(13) Cylinder option				
Symbol Details				
0	Standard			
W	2-position cylinder			
T 3-position cylinder				
D Oil damper				

Section for entry of special parts							
	No.	Required ports	Size	Coupling			
	1						
	2						
①	3						
3	4						
5	⑤						
	6						
\$\display\$	7						

Section for entry of special notes

- If using nonstandard specifications for the lubricant application specifications on Page 12, be sure to designate them.
 If the specification is not specified, lubricant is applied.
 Safety of lubricant to be applied:
 NSF category H1
 Conforming to the Food Sanitation Law



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