



Hygienic

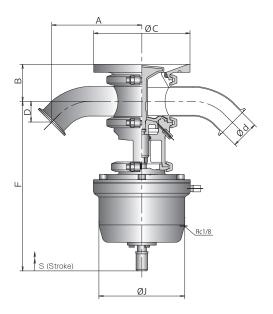
Tank Valves

DM type diaphragm tank valve

Inside-tank seal type



- The seal surface is the inside surface of the tank, which reduces accumulations during stirring.
- An integrated PFA-based diaphragm including a seal surface is employed as the diaphragm to provide excellent cleaning performance and make it suitable for C/SIP.



Specifications						
		Body	SUS316L			
	Wetted area	Diaphragm seat	PFA/SUS304			
	wetted area	Body packing	PTFE lining			
Material		Flange packing	PTFE			
iviateriai	Main	Operation part	SUS304/ADC Automatic (cylinder)			
	Main components other than wetted area	Backup rubber	Silicon rubber (With nylon cloth) EPDM			
Resistance to heat	Liquid temperature		0~135℃			
Withstand	Main body		1 MPa			
pressure	Valve seat		0.6MPa			
Cylinder operat	ion air pressure	0.4~0.7MPa				

Weight table (kg					
SIZE	ADC	SUS			
18	5.2	6.4			
1 1/2S	5.6	6.8			
28	10.2	13.2			
21/2S	_	20.5			
38	_	20.7			

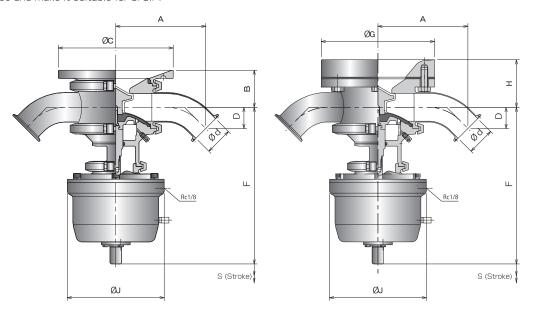
(mm)

0175			Б	4.0	Б	F	_ <i>φ</i> J		
SIZE	φ d	А	В	φC	D	F	ADC	SUS	S
18	23.0	95	49.5	138	25.3	194.0	135	122	5
1 ½S	35.7	115	55.9	138	31.0	206.3	135	122	8
28	47.8	140	61.9	158	36.5	299.9	182	167	11
21/2S	59.5	175	69.8	198	43.8	309.8	_	197	13
38	72.3	195	76.2	198	51.3	318.2	_	197	15

^{*} For valve types, refer to catalog No. 5.
* 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,)

DA type diaphragm tank valve

- Outside-tank seal type (body packing type)
- Outside-tank seal type (flange packing type)
 - Two types, body packing type and flange packing type, are available and can be mounted suitably according to the tank shape.
 - An integrated PFA-based diaphragm including a seal surface is employed as the diaphragm to provide excellent cleaning performance and make it suitable for C/SIP.



	Specifications							
		Body	SUS316L					
	Wetted area	Diaphragm seat	PFA/SUS304					
	Wetted area	Body packing	PTFE lining					
Material		Flange packing	PTFE					
iviateriai		Operation part	SUS304/ADC Automatic (cylinder)					
	Main components other than wetted area	Backup rubber	Silicon rubber EPDM					
Resistance to heat	Liquid temperature	0~135°C						
Withstand	Main body		1 MPa					
pressure	Valve seat		0.6MPa					
Cylinder operat	ion air pressure	0.4~0.7MPa						

Weight table (kg)							
SIZE	Body pac	king type	Flange packing type				
	ADC	SUS	ADC	SUS			
10A	4.1	5.3	6.4	7.6			
15A	4.1	5.3	6.4	7.6			
18	4.2	5.4	6.5	7.7			
1 1/2S	5.9	7.1	9.9	11.1			
28	11.6	14.6	16.0	18.9			
21/2S	12.4	15.3	16.8	19.7			
38	13.2	16.3	17.5	20.4			

											(mm)
0175	4.4		Б	4.0	_	F	4.0		¢	J	
SIZE	φd	A	В	φC	D	-	φG	Н	ADC	SUS	S
10A	14.0	95	43.0	120	23.1	180.3	125	57.0	135	122	5
15A	18.4	95	45.2	120	23.1	182.5	125	59.2	135	122	5
18	23.0	95	47.5	120	25.3	184.8	125	61.5	135	122	6
1 1/2S	35.7	125	57.8	166	31.0	198	175	76.0	135	122	9
28	47.8	155	63.9	198	36.5	270	195	82.0	182	167	12
21/2S	59.5	175	69.7	198	43.8	276	195	87.9	182	197	14
38	72.3	195	76.2	198	51.3	282	195	94.3	182	197	16

^{*} For valve types, refer to catalog No. 5.
* 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.)

Diaphragm-type single-seal tank valve

Inside-tank seal type

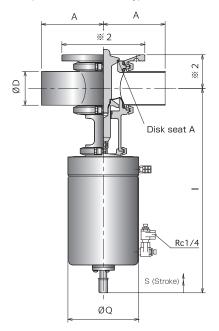


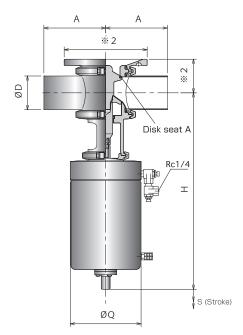
Diaphragm-type single-seal tank valve

Outside-tank seal type



- The shaft is sealed with a PTFE diaphragm to prevent contamination of the inside even when the
- Disk seat A is selectable from rubber-based materials (EPDM, FKM, HNBR) and fluororesin lining to 'make it compatible with various types of fluids including granular materials.





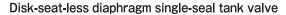
Specifications							
Material	Mat	eria l	SUS304,SUS316L				
	Diaphra	gm part	135℃				
		PTFE lining	135℃				
Desirence to been		FKM	100℃ (121°C SIP 1 hour)				
Resistance to heat	Valve plug part Valve box part	EPDM	135℃				
		Silicon	100℃ (121°C SIP 1 hour)				
		HNBR	100℃ (121℃ SIP 1 hour)				
Withstand	Main	body	1 MPa				
pressure	Valve seat		0.5MPa				
Cy l inder operat	ion air pressure	0.4~0.7MPa					
Cylinder operation	n air connection	Rc1/4					
Cylinder exh	austing part	Standard: With 1/4 silencer					

						(mm)
SIZE	А	φ D	Ī	Н	φQ	S
1 ½S	100	38.1	341.5	329.9	110.8	12
28	120	50.8	347.7	335.9	110.8	12
21/2S	125	63.5	411.0	396.3	135.5	15
3S	140	46.3	463.2	445.1	160.5	18
4S	160	101.6	482.9	457.9	214.0	25
58	200	139.8	547.5	507.9	263.5	40
68	220	165.2	560.2	520.6	263.5	40

^{* 2} varies depending on tank dimensions and shape.
* For valve types, refer to catalog No. 25.
*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.)

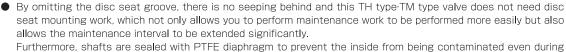
Disk-seat-less diaphragm single-seal tank valve

Inside-tank seal type



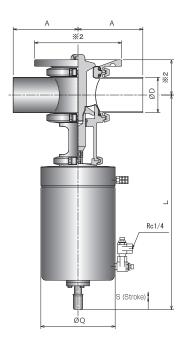


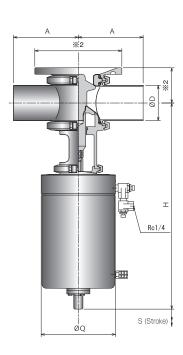
Outside-tank seal type



operation of valves.

This valve cannot be used for liquids containing hard solids.





Specifications							
Material	Mat	eria l	SUS304,SUS316L				
Desistance to best	Diaphragm part	PTFE	135℃				
Resistance to heat	Valve plug part		135℃				
Withstand	Main body		1MPa				
pressure	Valve seat		0.5MPa				
Cylinder operat	ion air pressure	0.4~0.7MPa					
Cylinder operation	on air connection	Rc1/4					
Cylinder exh	austing part	Standard: Wi	th 1/4 silencer				

/	Α.
(mr	n)

SIZE	φD	А	Н	L	φQ	S
11/2	38.1	100	329.9	341.9	110.8	12
2	50.8	120	335.9	347.9	110.8	12
21/2	63.5	125	396.3	411.3	135.5	15
3	76.3	140	445.1	463.1	160.5	18
4	101.6	160	457.8	482.8	214.0	25

^{* 2} varies depending on tank dimensions and shape.

* For valve types, refer to catalog No. 25.

* 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.)

Disk-seat-less single-seal tank valve

Inside-tank seal type



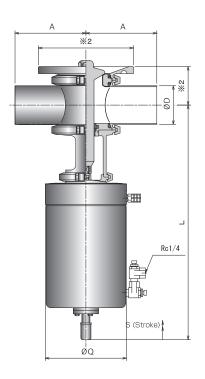
Disk-seat-less single-seal tank valve

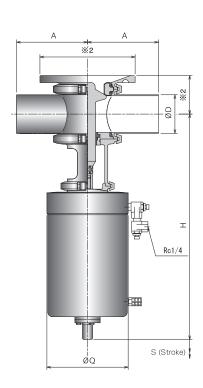
Outside-tank seal type



lacktriangle Omitting the disk seat grooves of these BH and BM type valves reduces seeping behind and eliminates disk seat mounting work, enabling maintenance work to be performed more easily.

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





Specifications							
Material	Mat	eria l	SUS304,SUS316L				
Desistered to best	Diaphragm part	PTFE	135℃				
Resistance to heat	Valve plug part		135℃				
Withstand	Main body		1 MPa				
pressure	Valve seat		0.5MPa				
Cylinder operati	ion air pressure	0.4~0.7MPa					
Cylinder operation	n air connection	Rc1/4					
Cylinder exh	austing part	Standard: With 1/4 silencer					

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W		

SIZE	φ D	А	Н	L	φQ	S(BH)	S(BM)
11/2	38.1	100	346.9	366.9	110.8	25	20
2	50.8	120	352.9	372.9	110.8	30	20
21/2	63.5	125	396.3	421.3	135.5	35	25
3	76.3	140	445.2	475.2	160.5	35	30
4	101.6	160	457.8	492.8	214.0	40	35

^{* 2} varies depending on tank dimensions and shape.
* For valve types, refer to catalog No. 25.
*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.)

Double-seal tank valve

KUtype

Double-seal type



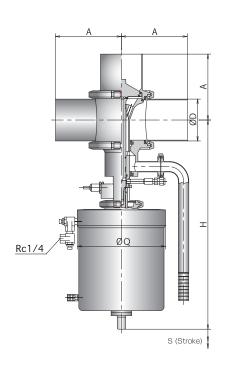
Double-seal tank valve

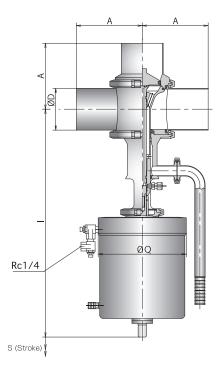
$\mathsf{KN}_\mathsf{type}$

Non-leak double-seal type



- This type is equipped with a double-seal cleaning mechanism to allow CIP to be performed while product liquid is in the tank.
- KN type is a valve capable of drastically reducing the discharge of inertial liquid to discharge little
 liquid during operation, which not only increases cleaning performance in the intermediate chamber
 but also reduces contamination around the valve.





Specifications				
Material	Mat	SUS304.SUS316L		
Resistance to heat	Valve plug part Valve box part	FKM	100℃ (121°C SIP 1 hour)	
		EPDM	135℃	
		Silicon	100℃ (121°C SIP 1 hour)	
		HNBR	100℃ (121°C SIP 1 hour)	
Withstand	Main body		0.98MPa	
pressure	Valve seat		0.5MPa	
Cylinder operation air pressure		0.4~0.7MPa		
Cylinder operation air connection		Rc1/4		
Cylinder exhausting part		Standard: With 1/4 silencer		

(mm)

SIZE	4.0		KU Type		КМ Туре		
	A	Α φD	φQ	Н	S	I	Е
1 ½S	100	38.1	110.8	369	25	412.1	25
28	120	50.8	110.8	395	30	418.1	25
21/28	125	63.5	135.5	438	35	475.8	35
38	140	46.3	160.5	487	35	536.9	30
48	160	101.6	214.0	500	40	553.2	40
58	200	139.8	263.5	554	45	612.6	45
68	220	165.2	263.5	567	45	625.3	45

* For valve types, refer to catalog No. 1 (KU type) and catalog No.24 (KN type).



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