

NDV SANITARY VALVES



NIPPON DAIYA VALVE CO., LTD.

SANITARY VALVES

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6. Safety Instructions

Products for Dead Spaces

Self-Drain Valve
Type-F



DN8-100

Sampling Valve
Type-P



DN8-100

3-Way Valve
Type-K



DN8-80

Tank Bottom Valve
Type-T



DN15-100

Product List

○: Standard ☆: Option —: Not Applied

Bio-Clean Diaphragm Valve Series

		Simplified Code														
		Main Body Material														
		Standard Nominal Size Range*														
Connection Standard	ISSC	Ferrule (Clamp Joint)	○	○	—**	—	○	○	—	—	○	○	○	○		
	JT	Astro (TIG) Welding	☆	☆	—	—	—	☆	—	—	☆	☆	☆	☆		
	J10KFF (RF)	Flange	☆	☆	○	○	—	☆	—	○	☆	☆	☆	☆		
	ISSU	Union Screw	☆	—	—	—	—	☆	—	—	☆	☆	☆	☆		
Main Body Surface Finish Classification	B1	#400 Buffing: Inner/Outer Surfaces	☆	○	—	Painted Outer Surface (white)			—	—	☆	—	○	○		
	B2	#400 Buffing: Inner Surface	○	—	—				—	○	☆	—	☆	—	○	—
	B3	#400 Buffing: Outer Surface (No-Burnt Color)	☆	—	☆				☆	☆	☆	☆	☆	☆	☆	☆
	B4	#400 Buffing: Outer Surface (Burnt Color)	—	—	☆				☆	—	—	—	—	—	—	—
	E1	Inner Surface Electropolishing after #400 Buffing on Inner/Outer Surfaces	☆	—	—	—	—	—	☆	—	☆	☆	☆	☆		
	E2	Inner Surface Electropolishing after #400 Buffing on Inner Surface	☆	—	—	—	—	—	—	—	☆	☆	☆	☆		
Diaphragm	TX/CE	New PTFE/EPDM	○													
	TX/CX	New PTFE/EPDM + α	☆													
Operation Type	Manual	Stainless Steel Handle	○													
		Aluminum Handle	○													
		Quick Open/Close Handle	☆													
	Auto	Pneumatically Operated ON-OFF Valve	○													
		Two Stage Open/Close Actuator	☆													
		Electronic Flow Control Valve	☆													
Pneumatically Operated Control Valve	☆															
Electrically Operated Valve	☆															

* Please contact us for a possibility of producing a product other than the standard. ** With a manufacturing record of special clamp type. Please contact us for details. *** Other than this, specific orders for special valves and related products are welcome.

Please contact our sales dept. or local representative for materials and nominal sizes other than those listed in this table.

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Bio-Clean Diaphragm Valve Series

Products for Dead Spaces

2-1. Self-Drain Valves: Type-F

- ① Features of Products
- ② Valve Specifications

2-2. Sampling Valves: Type-P

- ① Features of Products
- ② Valve Specifications
- ③ Major Dimensions

2-3. 3-Way Valves: Type-K

- ① Features of Products
- ② Valve Specifications
- ③ Major Dimensions

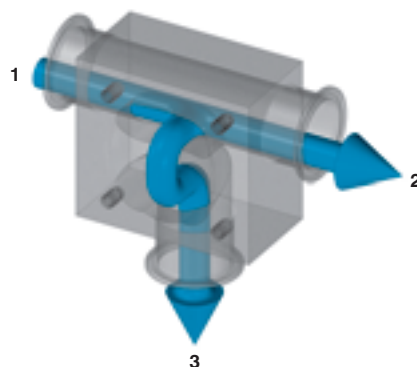
2-4. Tank Bottom Valves: Type-T

- ① Features of Products
- ② Valve Specifications
- ③ Major Dimensions

2-2. Sampling Valves: Type-P

1 Features of Products

- Sampling of fluid without a dead space (pockets or fluid accumulation).
- A compact body that allows a direct implementation in pipeline and the structure with no residual liquid in a valve.
- Applicable for a wide range of applications, such as branching, merging (mixing), introduction of washing water or sterilization steam and discharging, as well as sampling.



Valve	Connected Ports	Port No.
Open	1 - 2 1 - 3 2 - 3	1 2 3
Close	1 - 2	1 2 3

2 Valve Specifications

Standard Specifications

Manufactured Main Bodies

Main Body Material	SUS316L
Nominal Size (DN)	Combination of main pipe and valve • Standard: 15–50 (other range supplied as option)
Operation Type	Manual operation and pneumatic operation are applicable.

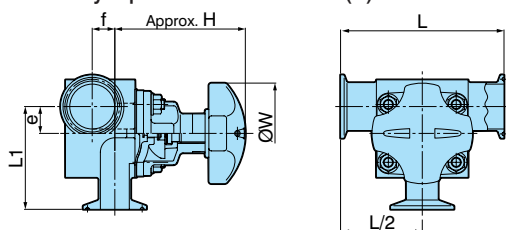
Other Specifications

- Main body surface finish classifications, diaphragm specifications, etc., are in accordance with the standard specifications. (Ref. page 10–11)
- Interchangeability with the units for standard main bodies allows the common use with the actuators for manually operated valves and pneumatically operated ON-OFF valves.
- Please contact us for PFA coated main body (special clamp connection).

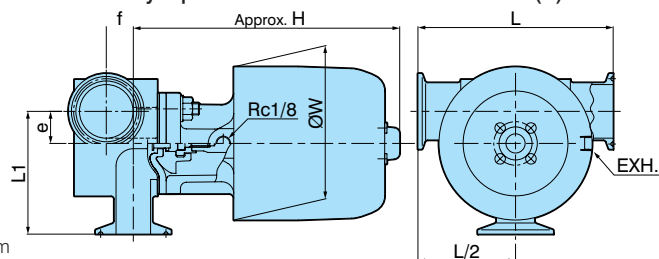
3 Major Dimensions (reference)

A typical example is shown with the combination of various nominal sizes and actuators. Please contact us for combinations other than the table below.

Manually Operated Valve: B414 (P) N



Pneumatically Operated ON-OFF Valve: BPO1414 (P) NB



Unit: mm

Main Pipe × Valve DN (S)	L	L1	e	f	Manually (B400N)		Pneumatically ON-OFF (BPO)		
					Approx. H	W	Actuator	Approx. H	W
15 × 15 (1S × 1S)	90	62.3	11.3	—	103	70	07	156	87
25 × 15 (1S × 1S)	100	65.0	14.0	11.0	95	70	07	148	87
25 × 25 (1S × 1S)	130	78.5	15.0	—	114	80	09	188	102
40 × 15 (1.5S × 1S)	110	67.4	20.4	18.5	94	70	07	147	87
40 × 25 (1.5S × 1S)	130	81.8	21.4	18.0	104	80	09	178	102
40 × 40 (1.5S × 1.5S)	160	98.5	21.9	—	145	100	12	210	138
50 × 15 (2S × 1S)	120	77.4	26.4	24.0	95	70	07	148	87
50 × 25 (2S × 1S)	140	90.9	27.4	27.0	104	80	09	178	102
50 × 40 (2S × 1.5)	160	107.4	27.9	21.0	133	100	12	198	138
50 × 50 (2S × 2S)	190	124.4	28.9	—	161	125	16	253	183