

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	☆	○	—													—	—	—	○	—
	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

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

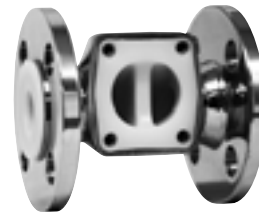
1 Features of Products

What is the Self-Drain Valve?

- A valve main body with enhanced fluid accumulation prevention effect of Bio Clean Diaphragm Valve series.
- This valve has a structure that eliminates the fluid accumulation by horizontally positioning the valve axis when implementing in a horizontal pipeline.

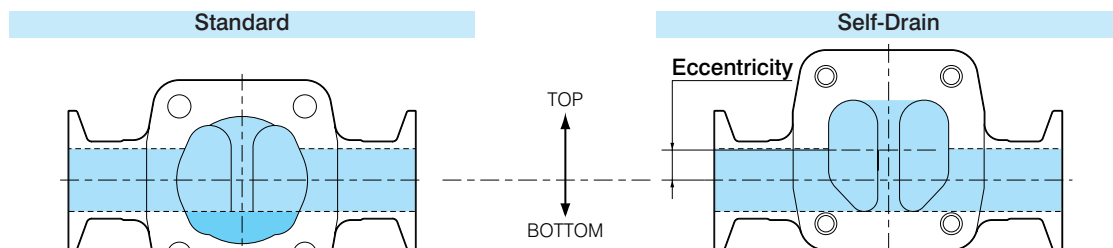


Stainless Steel Main Body: B414 (F)



PFA Lined Main Body: B459 (F)

Comparison with Standard Valve Main Body (with valve axis horizontally positioned)



The valve seat is on the same centerline with straight pipe.

Seat center and straight pipe center are eccentrically positioned and the bottom end of valve seat is in line with inner wall of straight pipe.

Example of Applications

For various biotechnology systems, ultra-pure water production system for semiconductor industries and other systems requiring zero liquid accumulation in fluid path

2 Valve Specifications

Stainless Steel

Manufactured Main Bodies

Name	Main Material	Material Code	Connection Standard and Manufacturing Range			
			Ferrule	Astro (TIG) Welding*	Union Screw*	Flange*
			Nominal Size	Nominal Size	Nominal Size	Nominal Size
Stainless Steel Forged	SUS316L	14(F)	8-50	8-50	8-50	8-50
Stainless Steel Cast	SCS16	13(F)	65-100	65-100	65-100	65-100

* Option

Lined Main Bodies

Manufactured Main Bodies

Name	Base Material	Material Code	Connection Standard and Manufacturing Range	
			Flange	
			Nominal Size	
PFA Lining ★	SCS13	59(F)	15-50	

★: In case of export, export license stipulated in the Foreign Exchange and Foreign Trade Control Law of Japan and/or if necessary, export-related laws and regulations of the United States of America and other countries is required.

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.