

ASAHI **AV** VALVE AND PIPING SYSTEMS

ASAHI AV VALVES

3-WAY BALL VALVE TYPE 23 15mm - 100mm($1/2$ inch - 4inch)



3-WAY BALL VALVE TYPE 23 15mm - 100mm(1/2inch - 4inch)

FEATURES

Compact and Economic

The 3-WAY BALL VALVES allows two flow patterns, using one valve. The valve is suitable for a pipeline which requires two ball valves and a tee. That is, the 3-WAY BALL VALVES is economic because it makes piping compact and saves space.

Reversible Flow Direction

The 3-WAY BALL VALVE is based on the Asahi true union ball valve design which can be installed or removed just by tightening or loosening its union nut. The 3-WAY BALL VALVES has a L-shaped fluid channel and a handle which can be rotated 360°. The arrow on top of the handle indicates the flow direction.

Equipped ISO Mounting Flange

The feature provides for easier mounting of actuators on valves.

Interchangeable with Ball Valve Type21

The face to face dimensions, as well as the connecting parts, end connectors and union nuts, are the same as the ball valve Type21.

Other Special Features

- Double O-ring seal on stem for an added protection.
- W-L port ball and *Cross port ball are available upon request.
- *Note: Cross port ball is available at the size of 15mm (1/2inch) up to 50mm (2inch).
- Built-in spanner wrench on the handle for valve disassembly and assembly.

NSF Product

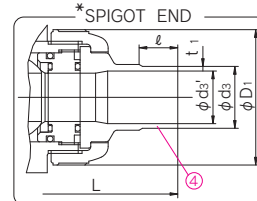
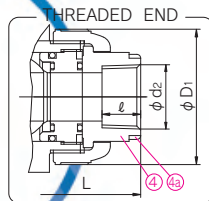
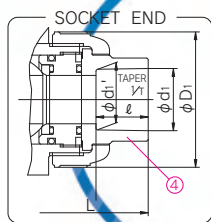
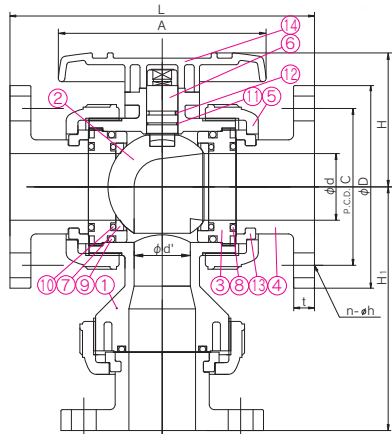
NSF("NSF/ANSI STANDARD 61" Drinking Water System Components-Health Effects)Product.

:3-WAY BALL VALVE TYPE 23(Material:PVC+EPDM,FKM)

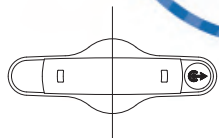
*Certified products bear an NSF Certification Mark.



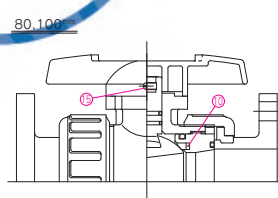
DIMENSION



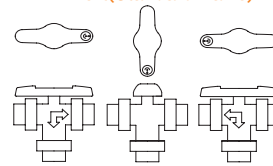
* JIS and DIN Standard only.



(Top view of the handle.)
NOTE: The shape and appearance of assembly differ a little with nominal size compared to this drawing.

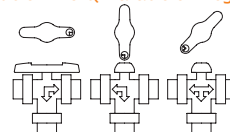


L Port(Standard Valve)

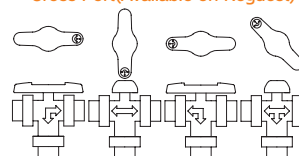


Changing the ball allows for standard valve to be converted.
(only 15mm(1/2inch)~50mm(2inch))

Double L Port(Available on Request)



Cross Port(Available on Request)



*Available at the size of 15mm up to 50mm.

MATERIAL AND WORKING TEMPERATURE

Body Material	Working Temperature °C (°F)	Max.Working Pressure(at R.T.) MPa{kgf/cm²}[PSI]	End Connectors			
			Socket End	Threaded End	Flanged End	Spigot End
Unplasticized Polyvinyl Chloride(PVC)	0 - 50(30 - 120)	1.0{10.2} [150]	○	○	○	○
Chlorinated Polyvinyl Chloride(C-PVC)	0 - 90(30 - 195)	1.0{10.2} [150]	○	○	○	○
Polypropylene(PP)	-20 - 80(-5 - 175)	1.0{10.2} [150]	○ ※	○	○	○
Polyvinylidene Fluoride(PVDF)	-20 - 100(-5 - 210)	1.0{10.2} [150]	○ ※	○	○	○

* PP and PVDF 3-WAY BALL VALVES of the Socket End are welded valves.

Note : 1. There is a dead space in a ball valve. Volatile liquids, such as a hydrogen peroxide (H₂O₂) and Sodium hypochlorite (NaClO) may vaporize in the dead space, thus causing an abnormal pressure increase in the valve. (Important: Gas is compressible. Thus if its pressure rises abnormally, the valve can burst ejecting dangerous fragments.)

PARTS & MATERIALS

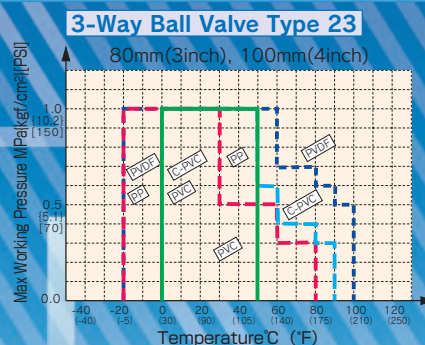
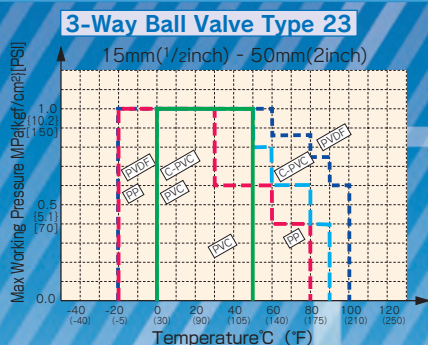
No.	DESCRIPTION	Pcs.	MATERIAL	No.	DESCRIPTION	Pcs.	MATERIAL
①	BODY	1	PVC,PP,C-PVC,PVDF	⑨	O-RING(B)	2	EPDM,FKM,others
②	BALL	1	PVC,PP,C-PVC,PVDF	⑩	O-RING(C), CUSHION	2	EPDM,FKM,others
③	CARRIER	2	PVC,PP,C-PVC,PVDF	⑪	O-RING(D)	1	EPDM,FKM,others
④	END CONNECTOR	3	PVC,PP,C-PVC,PVDF	⑫	O-RING(E)	1	EPDM,FKM,others
⑤	UNION NUT	3	PVC,PP,C-PVC,PVDF	⑬	STOP RING	3	PVDF(Used for Flanged End)
⑥	STEM	1	PVC,PP,C-PVC,PVDF	⑭	HANDLE	1	ABS
⑦	SEAT	2	PTFE	⑮	TAPPING SCREW(A)	1	STAINLESS STEEL304
⑧	O-RING(A)	3	EPDM,FKM,others	⑯	RING	3	STAINLESS STEEL304

Note : The stop ring (⑬) is used for Flanged End valves only.

The ring (⑯) is used for 15,20,and 25mm C-PVC valves.



WORKING PRESSURE VS. TEMPERATURE



DIMENSIONS TABLE

DIN		Unit:mm																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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Nominal Size		Spigot End									
mm	inch	PVC				PP, PVDF					
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15	1/2	20	15	18.5	83	20	18.5	2.5	1.9	124	83
20	3/4	25	20	24	99	25	22	2.7	1.9	144	99
25	1	32	25	24.5	115	32	22.5	3.0	2.4	154	115
40	1 1/2	50	40	34	153	50	32	4.6	3.0	194	153
50	2	63	51	38	178	63	36	5.8	3.0	224	178
80	3	90	80	51	252	90	38	8.2	4.3	295	246
100	4	110	93.6	61	308	110	44.5	10.0	5.3	353	301

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