

# ASAHI

## BALL VALVE

P.043 BALL VALVE TYPE 21, 21 $\alpha$

P.053 WATER BALL VALVE

P.057 3 WAY BALL VALVE TYPE 23

P.063 3 WAY BALL VALVE TYPE 23 H

P.065 LAB COCK

P.067 COMPACT BALL VALVE TYPE 27



## BALL VALVE LINEUP

APPLICATION	TYPE	SIZE	MATERIAL			
			U-PVC	C-PVC	PP	PVDF
FOR CHEMICALS	21 $\alpha$	15 — 50mm	●	●		
	21	15 — 50mm			●	●
		65 — 100mm	●	●	●	●
FOR WATER	WATER BALL VALVE	15 — 50mm	●			
3 WAY BALL	23	15 — 100mm	●	●	●	●
	23H	25 — 40mm			●	
LAB COCK	—	1/4 — 3/8inch	●			
COMPACT SIZE	27	13 — 50mm	●	●		

## AVAILABLE OPTIONS **AUTOMATIC** \* Options other than those listed below are also available. Contact us for inquiry.

	PNEUMATIC			ELECTRIC	
	TYPE TA	TYPE AA	TYPE VC	TYPE T	TYPE V
SOLENOID VALVE (NAMUR)	●	●			
SOLENOID VALVE (WITH EXHAUST THROTTLE VALVE WITH SILENCER)			● <sup>*1</sup>		
FILTER REGULATOR	●	●			
SPEED CONTROLLER	●	●	●	● <sup>*3</sup>	
BYPASS VALVE (WITH SPEED CONTROLLER)	●	●			
LIMIT SWITCH BOX	●	●	●		
LIMIT SWITCH	●	●			
OUTPUT CONTACT LIMIT SWITCH				STANDARD	
INTERMEDIATE OUTPUT CONTACT LIMIT SWITCH				● <sup>*3</sup>	
PROXIMITY SWITCH	●				
E/P POSITIONER	●				
P/P POSITIONER	●				
E/E POSITIONER				● <sup>*3</sup>	
MANUAL OPERATION LEVER	●				
MANUAL OVERRIDE	●			●	
FULL OPENING ADJUSTMENT	●				
SPECIAL PAINTING (ACTUATOR ONLY)	●			●	
SPECIAL FITTING (STAINLESS STEEL)	●	●		●	
METAL INSERT PROVIDED (WITH ENSAT)	●	●		●	
SPACE HEATER				● <sup>*2</sup>	STANDARD
POTENTIOMETER				● <sup>*3</sup>	

\*1 Not compatible with the NAMUR standard. \*2 Provided as standard for 65 mm or more.

\*3 When it is mounted on a valve with a size of 50 mm or less, the actuator specifications will change.



SOLENOID VALVE



SPEED CONTROLLER



LIMIT SWITCH BOX



LIMIT SWITCH



POSITIONER

# COMPACT BALL VALVE TYPE 27

- WITH A SMALL NUMBER OF COMPONENTS AND LIGHT WEIGHT, COMPACT DESIGN, SUITABLE FOR INSTALLATION IN A NARROW SPACE AND IDEAL FOR FACILITY PIPING IN PLANTS.
- THE SPHERICAL VALVE ELEMENT ALLOWS FOR A STRAIGHT FLOW PATH AND EXTREMELY SMALL FLUID RESISTANCE. (EXCELLENT WATER CHARACTERISTICS)
- NO RISK OF DIFFICULT HANDLE OPERATION DUE TO THERMAL EXPANSION OR CONTRACTION.
- USING PTFE, THE SEAT IS HIGHLY RESISTANT TO CORROSION, CHEMICALS AND ABRASION.

## BASIC SPECIFICATIONS

VALVE TYPE ————— **COMPACT BALL VALVE**  
 SIZE ————— **13 mm—50 mm (3/8 inch—2 inch)**  
 BODY MATERIAL ————— **U-PVC C-PVC**  
 SEAL MATERIAL / SEAT ————— **PTFE**  
 O-RING ————— **EPDM etc.**  
 CONNECTION / SOCKET ————— **JIS, DIN, ANSI**  
 THREADED ————— **Rc, Rp, NPT**

**MANUAL**

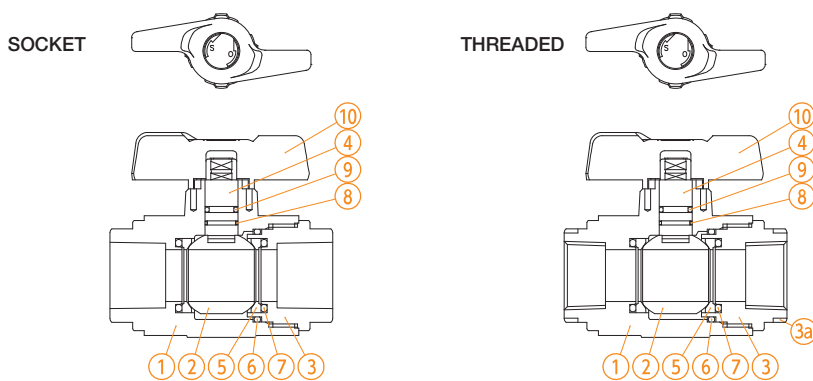


	FLUID TEMPERATURE	MAXIMUM WORKING PRESSURE (NORMAL TEMPERATURE) (MPa)(kgf/cm <sup>2</sup> )	CONNECTION METHOD	
			SOCKET	THREADED
<b>U-PVC</b>	0°C ~ 50°C	1.0 {10.2}	○	○
<b>C-PVC</b>	0°C ~ 90°C	1.0 {10.2}	○	○

**NOTE** (1) The maximum working pressure is the value including the water hammer pressure. Be careful that the maximum working pressure is not exceeded during use. (2) The ball-type valves have dead spaces for structural reasons. Note that volatile liquids, such as hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>) and sodium hypochlorite (NaClO), vaporize in those dead spaces, which may cause abnormal pressure increase in the valve. (When the internal pressure abnormally increases due to vaporization, the gas will be compressive fluid. If the valve breaks in this state, it will be very dangerous, causing explosion and scattering of fragments.)

\* Concerning the allowable pressure for each temperature and material, see the technical documents at the end of this catalog.

## PARTS LIST **MANUAL**



PART NO. / NAME	QTY	MATERIAL
① BODY	1	U-PVC, C-PVC
② BALL	1	U-PVC, C-PVC
③ END CONNECTOR	1	U-PVC, C-PVC
③a RING	2	SUS304 (Used for C-PVC 13 - 25 mm threaded type.)
④ STEM	1	U-PVC, C-PVC
⑤ SEAT	2	PTFE

PART NO. / NAME	QTY	MATERIAL
⑥ O-RING (B)	1	EPDM, etc.
⑦ O-RING (C)	2	EPDM, etc.
⑧ O-RING (D)	1	EPDM, etc.
⑨ O-RING (E)	1	EPDM, etc.
⑩ HANDLE	1	ABS

**PRODUCT MODEL CODE LIST**  
**MANUAL**

ACTUATION	TYPE	OPERATING SYSTEM	BODY MATERIAL	SEAL MATERIAL	CONNECTION	STANDARD	SIZE	HIGH PURITY SERIES
V	7B	LV	*	*	*	*	***	1
V	MANUAL VALVE	7B	TYPE 27	LV	LEVER TYPE			
U	U-PVC	E	EPDM	S	SOCKET	J	JIS	1 LUBRICANT FREE
C	C-PVC	V	FKM	N	THREADED	D	DIN	
						A	ANSI	
							013 13mm ? 050 50mm	

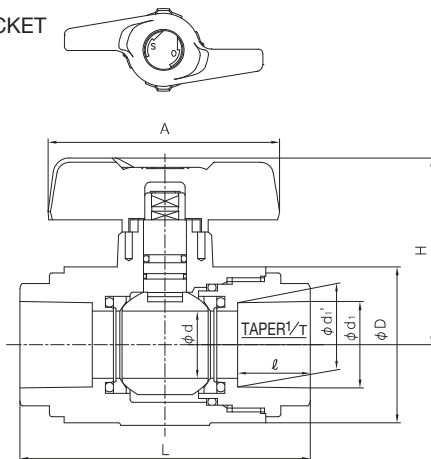
**MANUAL**

## COMPACT BALL VALVE TYPE 27

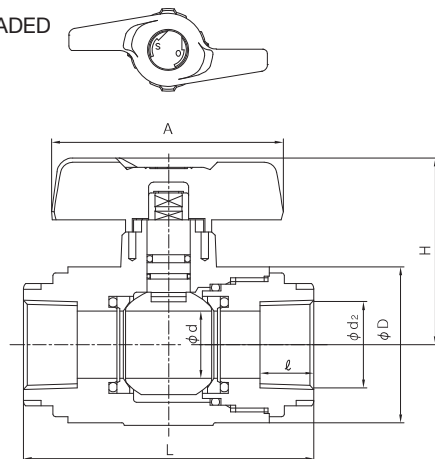
TYPE—V7BLV

CONNECTION / SOCKET, THREADED—JIS, DIN, ANSI

SOCKET



THREADED



■ JIS, DIN (Unit: mm)

mm	inch	d	A	D	H	JIS						DIN						
						SOCKET			THREADED			SOCKET			THREADED			
						d <sub>1</sub>	ℓ	1/T	L	d <sub>2</sub>	ℓ	L	d <sub>1</sub>	ℓ	L	d <sub>2</sub>	ℓ	L
13	3/8	15	75	40	52.5	18.20	17	1/30	69	-	-	-	16	14	69	Rp3/8	15	69
15	1/2	15	75	40	52.5	22.11	20	1/34	79	Rc1/2	15	69	20	16	79	Rp1/2	15	79
20	3/4	20	87	49	62.5	26.13	24	1/34	94	Rc3/4	17	94	25	19	94	Rp3/4	17	94
25	1	25	87	58	69.5	32.16	27	1/34	108	Rc1	20	108	32	22	108	Rp1	20	108
32	1 1/4	31	105	68	81.5	38.19	30	1/34	121	Rc1 1/4	22	121	40	26	121	Rp1 1/4	22	121
40	1 1/2	40	135	82.5	96.0	48.21	37	1/37	146	Rc1 1/2	25	146	50	31	146	Rp1 1/2	25	146
50	2	51	135	104	107.5	60.25	42	1/37	175	Rc2	28	175	63	38	175	Rp2	28	175

■ ANSI (Unit: inch)

inch	mm	d	A	D	H	ANSI						
						SOCKET ASTM SCH40			THREADED			
						d <sub>1</sub>	d <sub>1</sub> '	ℓ	L	d <sub>2</sub>	ℓ	L
3/8	13	0.59	2.95	1.57	2.07	0.687	0.671	0.59	2.72	3/8-18NPT	0.59	2.72
1/2	15	0.59	2.95	1.57	2.07	0.848	0.836	0.69	3.11	1/2-14NPT	0.59	3.11
3/4	20	0.79	3.43	1.93	2.46	1.058	1.046	0.72	3.70	3/4-14NPT	0.67	3.70
1	25	0.98	3.43	2.28	2.74	1.325	1.310	0.87	4.25	1-11 1/2NPT	0.79	4.25
1 1/4	32	1.22	4.13	2.68	3.21	1.670	1.655	0.94	4.76	1 1/4-11 1/2NPT	0.87	4.76
1 1/2	40	1.57	5.31	3.25	3.78	1.912	1.894	1.09	5.75	1 1/2-11 1/2NPT	0.98	5.75
2	50	2.01	5.31	4.09	4.23	2.387	2.369	1.16	6.86	2-11 1/2NPT	1.10	6.86