Serial No. H-VO

H-V030-E-5

# **Compact Ball Valves**

### User's Manual



### Contents

(Page)
(1) Be sure to read the following warranty
clauses of our product1
(2) General operating instructions 2
(3) General instructions for transportation,
unpacking and storage 3
(4) Names of parts 4
(5) Working pressure vs. temperature 4
() Let 11. ( )
(6) Installation procedure 5
(7) Operating procedure 6
(7) Operating procedure 0
(8) Inspection items 7
(-), , , , , , , , , , , , , , , ,
(9) Trouble shooting 7
(10) Discarding remaining or waste materials 7



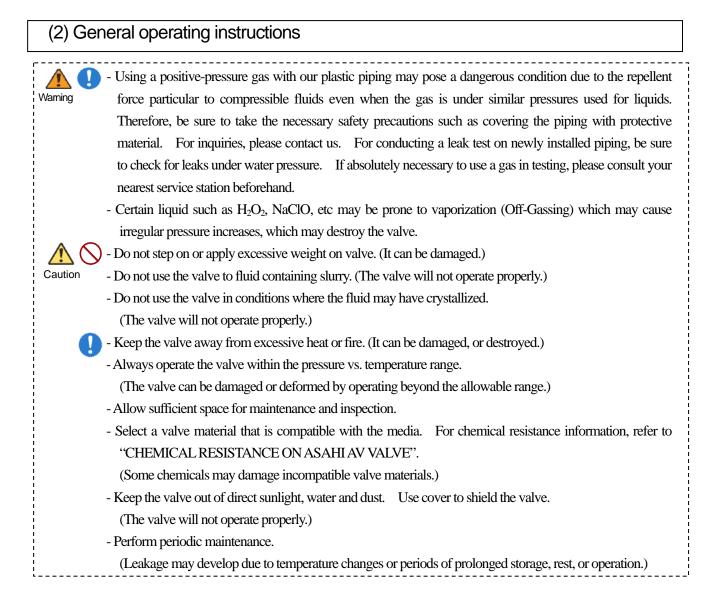
This user's guide contains information important to the proper installation, maintenance and safe use of an ASAHI AV Product. Please store this manual in an easily accessible location.

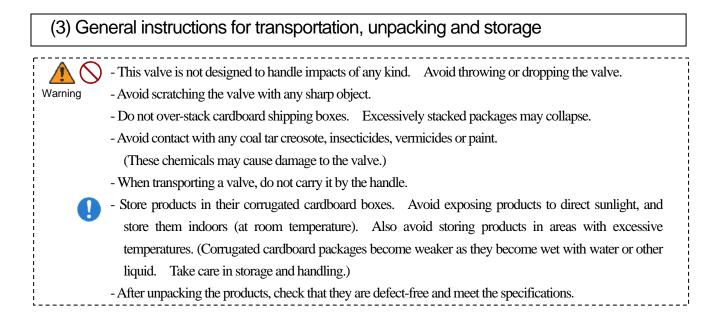
Warning	This symbol reminds the user to take caution due to the potential for serious injury or death.
Caution	This symbol reminds the user to take caution due to the potential for damage to the valve if used in such a manner.
<prohibited &="" ma<="" td=""><td>indatory Action Signs&gt;</td></prohibited>	indatory Action Signs>

$\oslash$	Prohibited: When operating the valve, this symbol indicates an action that should not be taken.
	Mandatory action: When operating the valve, this symbol indicates mandatory actions that must be adhered to.

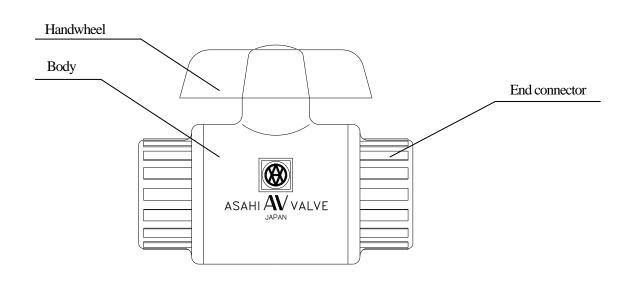
### (1) Be sure to read the following warranty clauses of our product

- Always observe the specifications of and the precautions and instructions on using our product.
- We always strive to improve product quality and reliability, but cannot guarantee perfection. Therefore, should you intend to use this product with any equipment or machinery that may pose the risk of serious or even fatal injury, or property damage, ensure an appropriate safety design or take other measures with sufficient consideration given to possible problems. We shall assume no responsibility for any inconvenience stemming from any action on your part without our written consent in the form of specifications or other documented approval.
- The related technical documents, operation manuals, and other documentation prescribe precautions on selecting, constructing, installing, operating, maintaining, and servicing our products. For details, consult with our nearest distributor or agent.
- Our product warranty extends for one and a half years after the product is shipped from our factory or one year after the product is installed, whichever comes first. Any product abnormality that occurs during the warranty period or which is reported to us will be investigated immediately to identify its cause. Should our product be deemed defective, we shall assume the responsibility to repair or replace it free of charge.
- Any repair or replacement needed after the warranty period ends shall be charged to the customer.
- The warranty does not cover the following cases:
  - (1) Using our product under any condition not covered by our defined scope of warranty.
  - (2) Failure to observe our defined precautions or instructions regarding the construction, installation, handling, maintenance, or servicing of our product.
  - (3) Any inconvenience caused by any product other than ours.
  - (4) Remodeling or otherwise modifying our product by anyone other than us.
  - (5) Using any part of our product for anything other than the intended use of the product.
  - (6) Any abnormality that occurs due to a natural disaster, accident, or other incident not stemming from something inside our product.

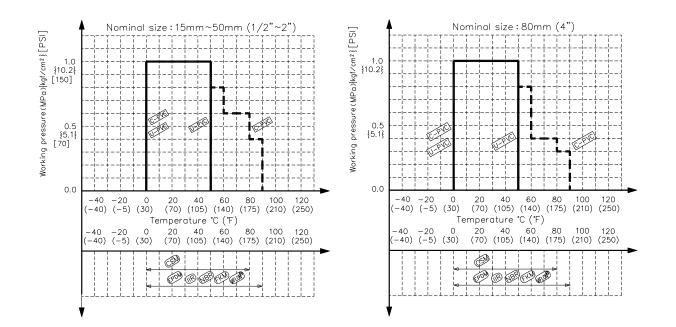




## (4) Names or parts



## (5) Working pressure vs. temperature



## (6) Installation procedure

#### Threaded end

\Lambda 🚫 - Avoi	id excessive tightening. (The valve can be damaged.)
Caution - Do n	not use the pipe wrench. (The valve can be damaged.)
🚺 - Mak	te sure that the threaded connections are plastic x plastic. (Metallic thread can cause damage.)
- Wra	p the threaded joints on our plastic piping with sealing tape. Using a liquid sealing agent or liquid
gasl	ket may cause stress cracks (Environmental Stress Cracking). Our product warranty shall not apply
in c	ase of said use, even when said use is unavoidable.
Necessary iten	
<ul> <li>Sealing tape</li> </ul>	Strap wrench • Spanner wrench

#### Procedure

- 1) Wind a sealing tape around the external thread of the joint, leaving the end (about 3mm) free.
- 2) Tighten the external thread of the joint and the end connector lightly by hand.
- 3) Using a spanner and a strap wrench, screw in the end connector by turning 180° -360° carefully without damaging it.

### Socket end

$\Lambda \otimes$	- When using an adhesive, ventilate the space sufficiently, prohibit the use of a fire in the vicinity, and do
Warning	not inhale adhesive vapors directly.
	- If an adhesive gets into contact with your skin, wash it off immediately. If you feel sick or find any
	anomaly, receive a physician's diagnosis and take appropriate measures promptly.
$\land \bigcirc$	- Take care in doing work at low temperatures. Solvent vapors are hard to evaporate and are likely to
Caution	remain. (Solvent cracks may occur, damaging the equipment.) After assembling the piping system,
	open both ends of the piping and use a fan (of the Low-Voltage Type) or something similar to ventilate
	the space, thus removing the solvent vapors.
	- Use the appropriate Asahi AV cement.
4 1	- Conduct a water test at least 24 hours after joining the pipes with an adhesive.

Necessary item		!
Adhesive for hard vinvl chloride pipes	Stran wrench	
<ul> <li>Adnesive for hard vinyl chloride pipes</li> </ul>	• Suap wienen	

#### Procedure

- 1) Clean the hub part of the end connector by wiping with waste cloth.
- 2) Apply adhesive evenly to the hub part of the end connector and the pipe spigot.

Caution	l - Do not apply mo	ore adhesive	than nece	ssary. (Th	e valve can	be damaged	due to solv	ent cracking	g.)	
	Adhesive quantity (gu	ideline)								

Nom. Size	13mm	15mm	20mm	25mm	30mm	40mm	50mm	80mm
	(3/8")	(1/2")	(3/4")	(1")	(1 1/4")	(1 1/2")	(2")	(3")
Quantity(g)	0.8	1.0	1.3	2.0	2.4	3.5	4.8	9.0

- 3) After applying adhesive, insert the pipe quickly to the end connector and leave it alone for at least 60 seconds.
- 4) Wipe away overflowing adhesive.

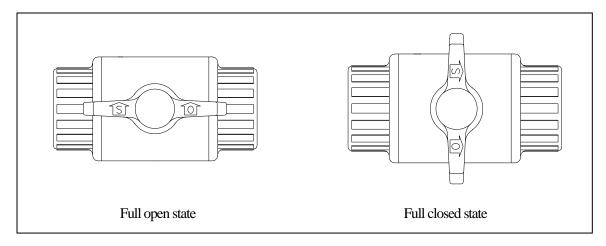
## (7) Operating procedure

O Turn the handle gently to open or close.

(Turn the handle clockwise to close and counter clockwise to open.)

Fully closed ..... The position of the handle should be perpendicular to the pipe.

Fully opened ..... The position of the handle should be parallel to the pipe.



## (8) Inspection items

- Perform periodic maintenance. (Leakage may develop due to temperature changes or over periods of prolonged storage, rest or operation.)

OInspect the following items.

(1)	Existence of scratches, cracks, deformation, and discoloring.
(2)	Existence of leakage from the valve to the outside.
(3)	Existence of leakage when the valve is opened fully at right or left.

## (9) Trouble shooting

The valve is not able disassemble.

Please replace the valve to new complete another valve, if the trouble may be occurred in parts of the valve.

## (10) Discarding remaining or waste materials

Warning - Make sure to consult a waste treatment dealer for recommendations on the proper disposal of plastic valves. (Poisonous gas is generated when the valve is burned improperly.) **Compact Ball Valves** 



**Distributor** 

Asahi Organic Chemicals Industry's homepage

http://www.asahi-yukizai.co.jp/en/

Information in this manual is subject to change without notice.

**Compact Ball Valves** 

2011.5