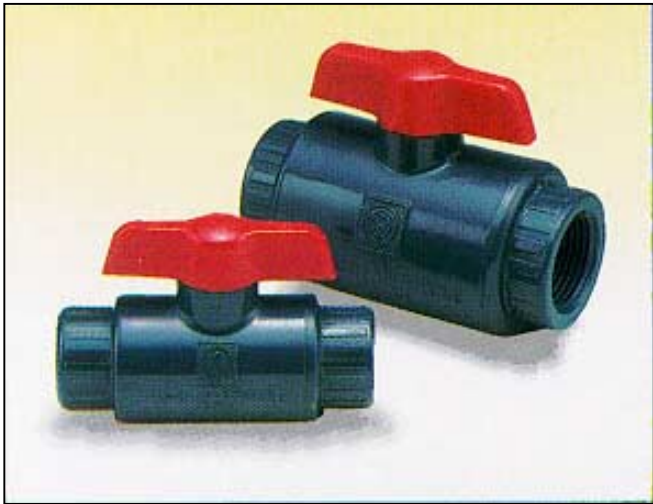


Serial No.	H – V030E – 2
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Compact Ball Valves

"OMNI Ball Valves"

User's Manual



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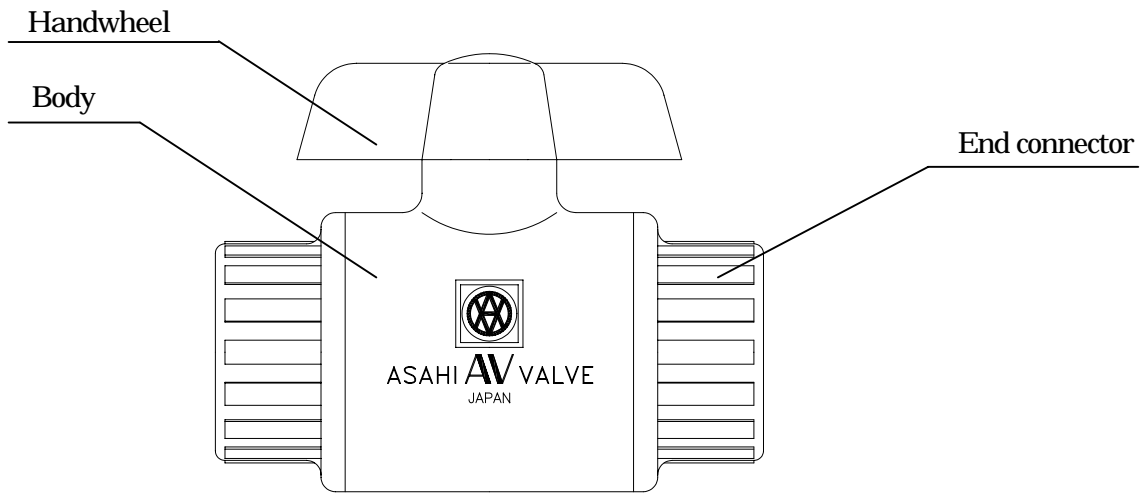
(1) General operating instructions

- Operate the valve within the pressure Vs temperature range.
(The valve can be damaged by operating beyond the allowable range.)
- Select a valve material that is compatible with the media, refer to “CHEMICAL RESISTANCE ON ASAHI AV VALVE”. (Some chemicals may damage incompatible valve materials.)
- Do not use the valve to fluid containing slurry. (The valve will not operate properly.)
- Do not use the valve on condition that fluid has crystallized.
(The valve will not operate properly.)
- Do not step on the valve or apply excessive weight on valve. (It can be damaged.)
- Do not exert excessive force in closing the valve.
- Make sure to consult a waste treatment dealer to dispose of the valves.
(Poisonous gas is generated when the valve is burned improperly.)
- Allow sufficient space for maintenance and inspection.
- Keep the valve away from excessive heat or fire. (It can be deformed, or destroyed.)
- The valve is not designed to bear any kind of external load. Never stand on or place anything heavy on the valve at anytime.
- Certain liquid such as H₂O₂, NaClO, etc may be prone to vaporization which may cause irregular pressure increases, which may destroy the valve.

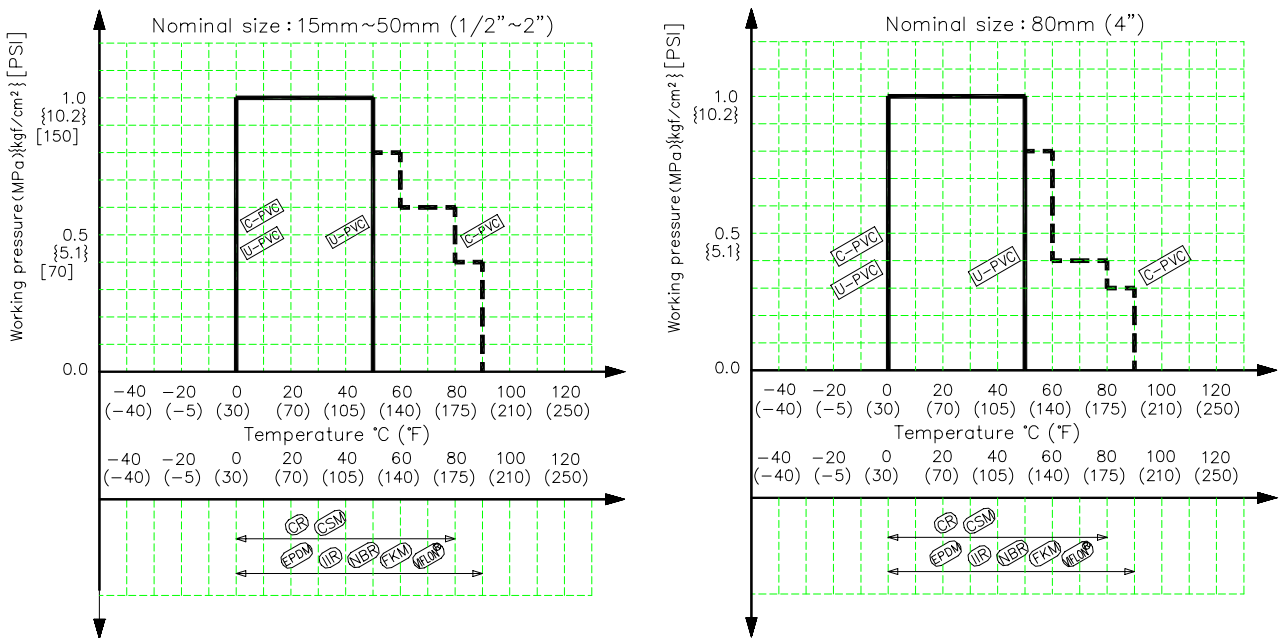
(2) General instructions for transportation, unpacking and storage

- Keep the valve packed in the carton or box as delivered until installation.
- Keep the valve away from any coal tar, creosote (antiseptic for wood), termite insecticide, vermicides, and paint. (This could cause swelling damage the valve.)
- Do not impact or drop the valve. (It can be damaged.)
- Avoid scratching the valve with any sharp object.

(3) Names or parts



(4) Comparison between working temperature and pressure




Caution

Do not operate the valve beyond the range of working temperature and pressure.
(The valve can be damaged.)

(5) Installation procedure


Threaded end

- Necessary item
- Sealing tape (A non- sealing tape can cause leakage.)
 - Strap wrench (Don't use a pipe wrench.)
 - Spanner wrench

 **Caution**
 Make sure that the threaded connections are plastic x plastic. (Metallic thread can be damaged)


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.

 **Caution**
 Avoid excessive tightening. (The valve can be damaged.)


Socket end

- Necessary item
- Adhesive for rigid polyvinyl chloride pipe (PVC)
 - Adhesive for heat – resistant polyvinyl chloride pipe (C – PVC)

 **Caution**
 Don't install a socket type valve where the atmospheric temperature is 5° or lower.
 (The valve can be damaged.)

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**
 Don't apply more adhesive than necessary.
 (The valve can be destroyed due to solvent cracking.)

Adhesive quantity (guideline)

Nom. Size	13mm (3/8")	15mm (1/2")	20mm (3/4")	25mm (1")	30mm (1 1/4")	40mm (1 1/2")	50mm (2")	80mm (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.

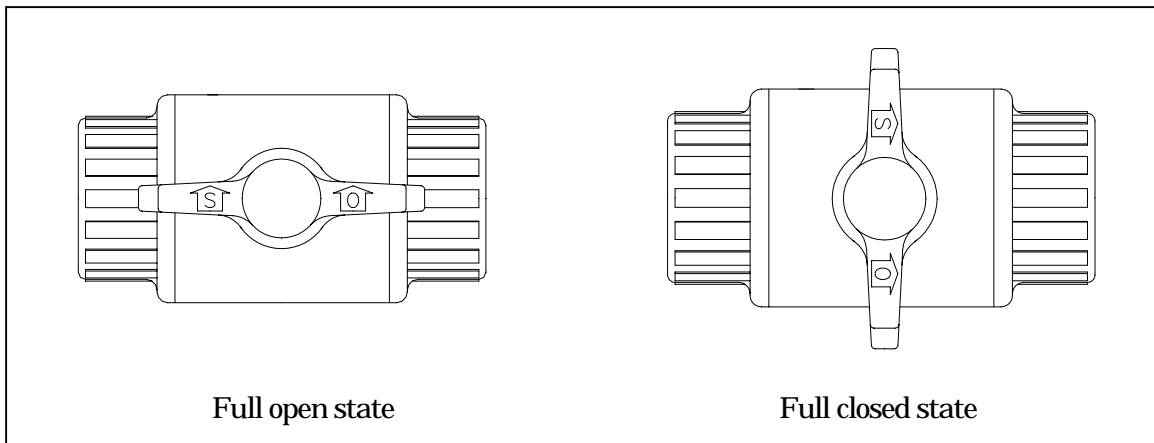
(6) Operating procedure

 **Caution**
 Avoid excessive tightening. (The valve can be damaged.)

- 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.



(7) Inspection items

○Inspect 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.

(8) 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.

(9) Discarding remaining or waste materials



Caution

In discarding remaining or waste materials, be sure to ask a waste service company.
(Poisonous gas is generated.)

(10) Inquires

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