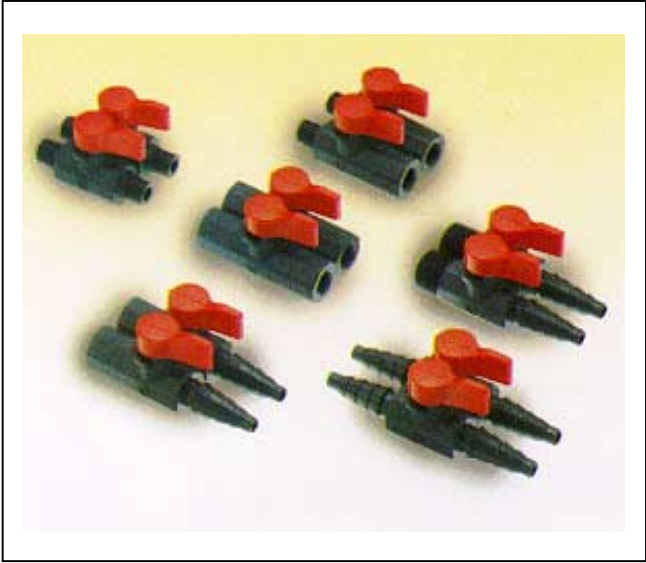


Serial No.	H – V005 E – 1
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# Lab Cock

**User's Manual**



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## (1) General operating instruction

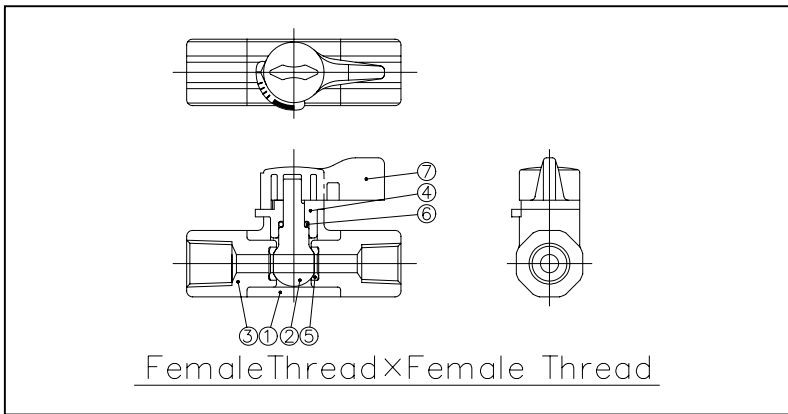
- Operate the valve within the pressure Vs temperature range.  
(The valve can be damaged by operating beyond the allowable range.)
- Select a valve material that is compatible with the media, refer to “CHEMICAL RESISTANCE ON ASAHI AV VALVE”.  
(Some chemicals may damage incompatible valve materials.)
- 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 H<sub>2</sub>O<sub>2</sub>, 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.

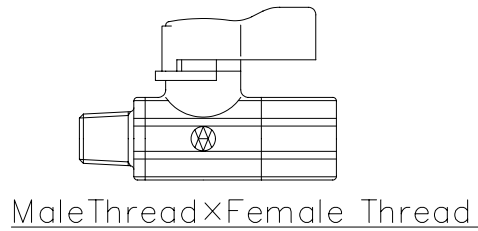
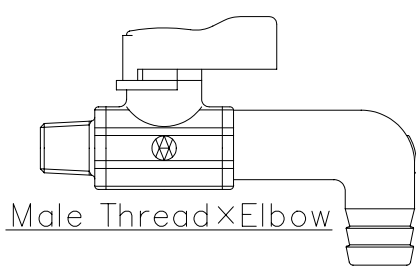
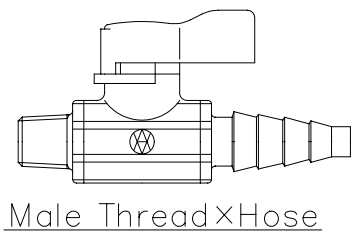
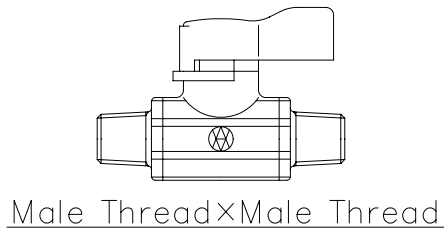
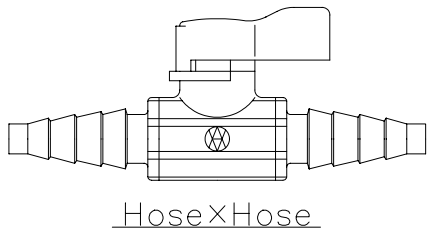
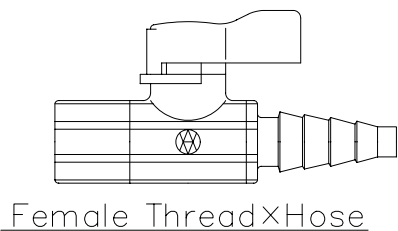
(3) Name of parts

■ Female thread x female thread type

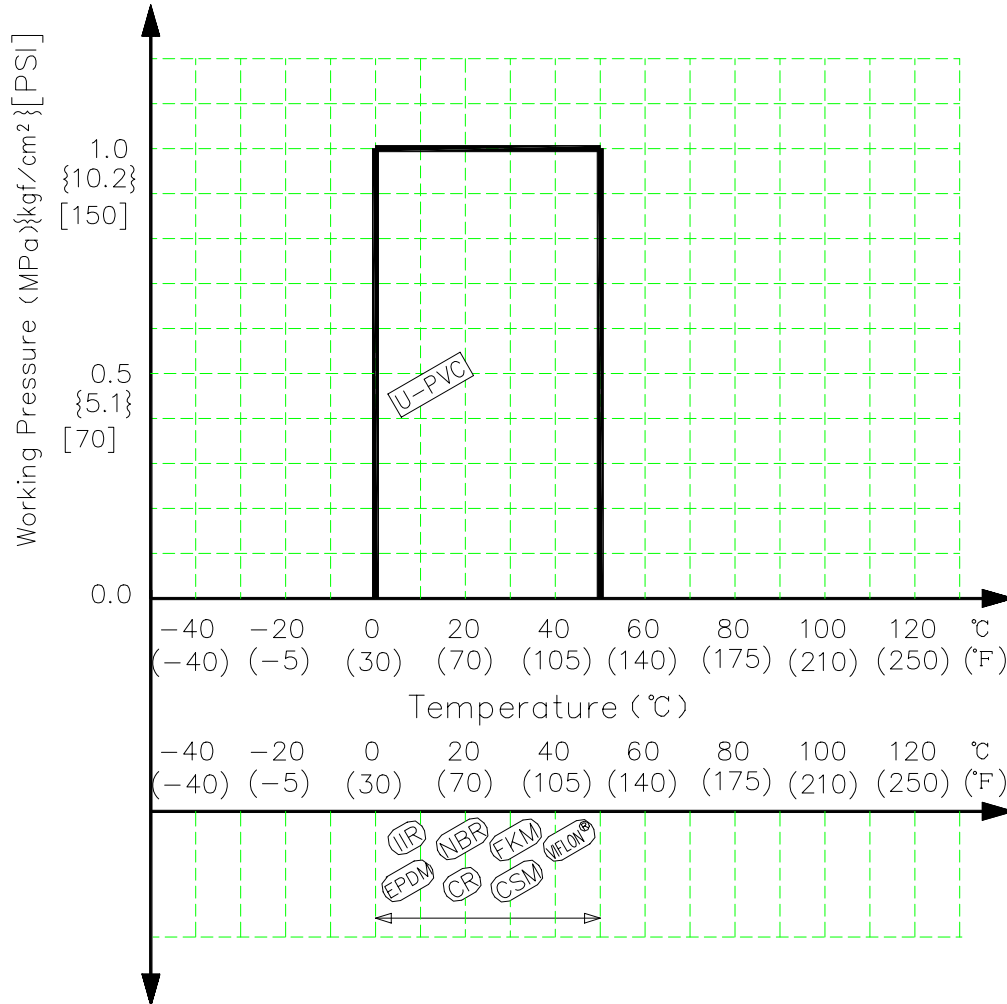


No.	DESCRIPTION
①	Body
②	Ball & Stem
③	End connector
④	Gland
⑤	Seat
⑥	O-ring
⑦	Handle

\*Any parts can not be exchanged except from the handle.



(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

Lab Cock has 15 kinds of products, with combinations of male thread, female thread and hose, and different sizes. There are explanations about each connector as following:

### Male Threaded type

#### Necessary items

- Sealing tape (A non-sealing tape can cause leakage.)
- Strap wrench (Do not use pipe wrench.)

#### Procedure

- 1) Wind a sealing tape around the male thread connector, leaving the end (about 3mm) free.
- 2) Tighten it to the female thread of the joint by hand.
- 3) Using 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.)

### Female Threaded type

#### Necessary items

- Sealing tape (A non-sealing tape can cause leakage.)
- Strap wrench



#### Caution

Make sure that the threaded connections are plastic x plastic.  
(Metallic thread can cause damage)

#### Procedure

- 1) Wind a sealing tape around the male thread of joint, leaving the end (about 3mm) free.
- 2) Tighten the male thread of the joint and the female thread connector lightly by hand.
- 3) Using 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.)

### Hose type

- Use hoses with the bore size 12-15mm to connect to the valve.
- Push in by hand, not by any tools. The hose may come off when the working pressure rises over the maximum.

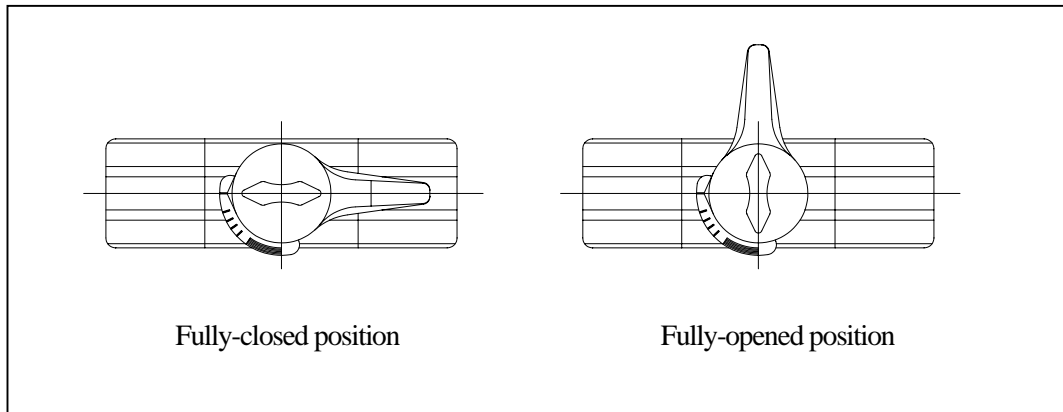
**(6) Disassembling Method for Replacing Parts**

○ Open and close the valve by turning handle quietly.

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

For the full-closed position, the handle is perpendicular to the piping axis direction.

For the full-opened position, the handle is parallel to the piping axis direction.



**(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) Troubleshooting and action**

○ The valve can not be disassembled, so replace the valve itself when troubled.

**(9) Handling of residual and waste materials**

 Caution

In discarding remaining or waste materials, be sure to ask waste service company.

**(13) Inquiries****ASAHI ORGANIC CHEMICALS INDUSTRY CO., LTD.**

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**Distributor**

**Lab cock**



**ASAHI AV VALVES**

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