

BALL VALVE BLV-1

PRODUCT MANUAL

Thank you very much for choosing the Yoshitake product. To ensure the correct and safe use of the product, please read this manual before use. This manual shall be kept with care for future references. The symbols used in this manual have the following meanings.

	Warning	This symbol indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury.
	Caution	This symbol indicates a hazardous situation that, if not avoided, may result in minor or moderate injury or may result in only property damage.

1. Specification

Model	BLV-1
Nominal size	8 to 50A
Application	Steam, Air, Cold and hot water, Oil, Other non-dangerous fluids
Max. using pressure	Saturated steam: 1.0 MPa Water, Oil, Air, Other non-dangerous fluids at normal temperature (40 degree C or less): 4.12 MPa

Caution

Please confirm that the indications on the product correspond with the specifications of the ordered product model before use.

* If they are different, please contact us without using the product.

2. Storage and Installation

Caution

- (1) Store the product indoors in a dust free, low humidity, dry and ventilated environment.
- (2) Installation should be conducted by suitably trained personnel, wearing protective head, eye, hand and foot protection.
- (3) The product can be used for "complete opening" and "complete closing". If the product is used at intermediate opening, ball and ball seat may be damaged.
- (4) Be careful that the threaded connection between the mating pipe and the internal threaded connections of the valves are in line to avoid piping stresses in the valves.
- (5) During transportation or storage of the product leakage may occur from the washer of packing due to decreasing of tightening pressure by stress relaxation of the packing. Be sure to retighten the washer of packing before use.
- (6) When connecting the product and the piping, apply seal agent (such as seal tape) to the screw part of the piping. Use seal agent appropriate for temperature, fluid, etc.
- (7) In case that the product is expected to be frozen, be sure to conduct freezing prevention measures or water draining treatment (after use).
- (8) To connect the product to piping, use appropriate tool such as spanner with spanner apply part near the piping. In addition, do not make piping work with applying a pipe wrench to the product. If doing so, it leads to malfunction of the product.

3. Operation

Warning

Before applying fluid, make sure that there is no danger if the fluid flow into the end of the piping.

*Failure to follow this notice may result in property damage due to fluid leakage.

4. Troubleshooting

Trouble	Cause	Remedy
Outside leakage	1. Tightening of the washer of packing is loosened.	1. Tighten the washer of packing additionally.
	2. The gland packing is damaged.	2. Replace the product with new one.
	3. The spindle is damaged.	3. Replace the product with new one.
Leakage from the ball part on complete closing	1. The ball and/or ball seat is damaged.	1. Replace the product with new one.
	2. Foreign substance is stuck.	2. Remove the foreign substance.
Operation torque of the handle is abnormally large	1. Too much tightening of the washer of packing.	1. Loosen the washer of packing and tighten it again to the no leakage degree.
	2. Foreign substance is stuck on spindle and screw part.	2. Remove the foreign substance.
Abnormal sound	1. Each screw part is loosened.	1. Retighten the loosened parts.

5. Maintenance

Warning

Completely discharge the pressure inside of the product, line and equipment before inspection and maintenance. For high temperature fluid, cool down the product till it can be touched with bare hands.

* Failure to follow this notice may result in injury or burns due to residual pressure.

Periodic inspection

Please conduct periodic inspection about once a year in order to maintain optimal performance and function of the product.

Inspection item

- Opening and closing operation
- Abnormal sound
- Outside leakage

If any abnormality is found, see “4. Troubleshooting” and conduct appropriate measure.

6. After service

1. Limited warranty

This product has been manufactured using highly-advanced techniques and subjected to strict quality control. Please be sure to use the product in accordance with instructions on the manual and the label attached to it.

Yoshitake warrants the product to be free from any defects in material and workmanship under normal usage for a period of one year from the date of receipt by the original user, but no longer than 24 months from the date of shipment from Yoshitake's factory.

2. Parts supply after product discontinuation

This product may be subject to discontinuation or change for improvement without any prior notice. After the discontinuation of the product, Yoshitake supplies the repair parts for 5 years otherwise individually agreed.

3. This warranty does not cover the damage due to any of below:

- (1) Valve seat leakage or malfunction caused by foreign substances inside piping.
- (2) Improper handling or misuse.
- (3) Improper supply conditions such as abnormal water pressure/quality.
- (4) Water scale or freezing.
- (5) Trouble with power/air supply.
- (6) Any alteration made by other than Yoshitake.
- (7) Use under severe conditions deviating from the design specifications (e.g. in case of corrosion due to outdoor use).
- (8) Fire, flood, earthquake, thunder and other natural disasters.
- (9) Consumable parts such as O-ring, gasket, diaphragm and etc.

Yoshitake is not liable for any damage or loss caused by malfunction or defect of the product.

4. On repair request after warranty is expired

In case that performance of the product can be maintained, we repair the product with charge on customer's request.

YOSHITAKE

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