

# TLV® Bellows Sealed Valve

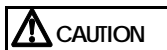
## Model BE1L/BE3L/BE6H

### Safety Considerations



- Read this section carefully before use and be sure to follow the instructions.
- Installation, inspection, maintenance, repairs, disassembly, adjustment, and valve opening/closing should be carried out only by trained maintenance personnel.
- The precautions listed in this manual are designed to ensure safety and prevent equipment damage and personal injury.
- The cautionary items below are very important for safety: be sure to observe all of them as they relate to installation, use, maintenance, and repair. Furthermore, TLV accepts no responsibility for any accidents or damage occurring as a result of failure to observe these precautions.

### Symbol



Indicates that there is a possibility of injury or equipment / product damage.

	<p><b>DO NOT use this product outside the recommended operating pressure, temperature and other specification ranges.</b> Improper use may result in such hazards as damage to the product or malfunctions that may lead to serious accidents. Local regulations may restrict the use of this product to below the conditions quoted.</p>
	<p><b>Take measures to prevent people from coming into direct contact with product outlets.</b> Failure to do so may result in burns or other injury from the discharge of fluids.</p>
	<p><b>When disassembling or removing the product, wait until the internal pressure equals atmospheric pressure and the surface of the product has cooled to room temperature.</b> Disassembling or removing the product when it is hot or under pressure may lead to discharge of fluids, causing burns, other injuries or damage.</p>
	<p><b>NEVER attempt to modify the product in any way. (Repair parts are not supplied for this product. Please replace entire product.)</b> Failure to observe these precautions may result in damage to the product and burns or other injury due to malfunction or the discharge of fluids.</p>
	<p><b>Do not use excessive force when tightening nuts and bolts on product flanges or when connecting threaded pipes to the product.</b> Over-tightening may cause breakage leading to fluid discharge, which may cause burns or other injury.</p>
	<p><b>Use only under conditions in which no freeze-up will occur.</b> Freezing may damage the product, leading to fluid discharge, which may cause burns or other injury.</p>
	<p><b>Use only under conditions in which no water hammer will occur.</b> The impact of water hammer may damage the product, leading to fluid discharge, which may cause burns or other injury.</p>
	<p><b>Do not stand on or apply body weight to the handle.</b> The handle may break, resulting in injury or other accident.</p>
	<p><b>Do not carry the product by the handle.</b> The handle is not secured and may move causing injury.</p>
	<p><b>Do not place fingers inside the product.</b> The handle may be turned resulting in injury.</p>

### Specifications

Model	BE1L		BE3L		BE6H	
Body Material	ASTM A105		ASTM A105		FCD-S	
Valve Port	Reduced Port Globe Valve		Reduced Port Globe Valve		Full Port Globe Valve	
Connection	Screwed, Socket Welded	Flanged: JIS10KRF, 20KRF ASME/JPI Class 150, 300RF	Screwed, Socket Welded	Flanged: JIS 10KFF, 20KRF, ASME/JPI Class 150, 300RF	Flanged: JIS 10KFF, ASME/JPI Class 150RF	Flanged: JIS 20KRF, ASME/JPI Class 300RF
Max. Operating Press. PMO	5.0 MPaG		5.0 MPaG		0.98 MPaG	
Max. Allowable Press. PMA*	5.0 MPaG		5.7 MPaG		0.98 MPaG	
Max. Operating Temp. TMO	425 °C		400 °C		300 °C	
Max. Allowable Temp. TMA*	425 °C		427 °C		300 °C	
Suitable Fluid**	Steam, Water, Heat Transfer Fluids, etc.					

\* Maximum allowable pressure (PMA) and maximum allowable temperature (TMA) are PRESSURE SHELL DESIGN CONDITIONS, NOT OPERATING CONDITIONS. (1 MPa=10.197 kg/cm<sup>2</sup>)

\*\* Consult TLV for toxic, flammable, or otherwise hazardous fluids.

Specifications for option products may differ from specifications shown above. Contact TLV for details.

### Installation & Operational Consideration

	<p><b>Before installing the product, blow out the piping to remove any piping scraps, dirt, oil and scales</b> Failure to do so may result in leakage at the seat due to foreign matter.</p>
	<p><b>Do not remove the product from its box or protective covering until just prior to installation.</b> The protective cover keeps damage causing foreign materials out of the product.</p>
	<p><b>Do not attempt to turn the handle past the full open or full closed positions.</b> Turning past these points may cause product malfunction or damage.</p>

(Repair parts are not supplied for this product. Contact TLV when the product is damaged.)

### Product Warranty

1. Warranty Period  
One year following product delivery.
2. Warranty Coverage  
TLV CO., LTD. warrants this product to the original purchaser to be free from defective materials and workmanship. Under this warranty, the product will be repaired or replaced at our option, without charge for parts or labor.
3. This product warranty will not apply to cosmetic defects, nor to any product whose exterior has been damaged or defaced; nor does it apply in the following cases:
  - Malfunctions due to improper installation, use, handling, etc., by other than TLV CO., LTD. authorized service representatives.
  - Malfunctions due to dirt, scale, rust, etc.
  - Malfunctions due to improper disassembly and reassembly, or inadequate inspection and maintenance by other TLV CO., LTD. authorized service representatives.
  - Malfunctions due to disasters or forces of nature.
  - Accidents or malfunctions due to any other cause beyond the control of TLV CO., LTD.

Under no circumstances will TLV CO., LTD. be liable for consequential economic loss damage or consequential damage to property.

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For Service or Technical Assistance: Contact your TLV representative or your regional TLV office.

**TLV** CO., LTD.

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