

Operation Manual

Ball Foot Valves

(Flanged and Threaded Ends)

We appreciate your purchasing our products. Ensure to read all the contents of this manual before piping and using them. Also keep this manual to the place accessible to the operator.

KITZ CORPORATION

This manual applies to manual operation of flanged and threaded ends ball foot valves.



NOTES TO USERS

This manual covers normal usage of our products. Technical data and instructions for operation, maintenance and inspection of the products are prepared in consideration of safety. However, they are good only to cover typical applications as a general guideline to users. If technical assistance beyond this manual is required, contact KITZ Corporation or its distributors.

The illustrations given in this manual do not introduce all details. If more detailed data are needed, refer to our relevant valve assembly drawings.

X Any information provided in this manual is subject to change at any time without notice, which cancels all previous issues.



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CHAPTER I

Construction and design features



(1) Function and structure

The foot valve is a check valve installed at the end of the suction side piping.

It is used in equipment that pumps water from a low water source.

The foot valve prevents the outflow of water in the pipe when the pump is stopped

The valve operation automatically closes when the pump is stopped and when it is restarted the valve opens.





close



open



(2)Feature



Maintenance / inspection plug can be installed (Custom-made) Connecting a valve to this drain hole makes drainage in the rising pipe even easier. Easy to pull up the pipe from the water tank. The drain hole size is RC1 / 2.



CHAPTER II

Precautions for selection











CHAPTER III

Transportation and storage



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(1) Transportation



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(1) When lifting and transporting the valve, pay sufficient attention to safety, such as preventing people from entering under the suspended load. There is a risk of personal injury due to the collapse of luggage.



 Be careful not to damage the painted surface when transporting the valve. If the painted surface is damaged, repair it. If not repaired, it may cause corrosion.

(2) In the case of cardboard box packaging, the strength of the box may decrease due to humidity, etc, and the packaging may break and damage the product, so be careful.

- (a) When moving or transporting the valve, keep it in the original packaging. If the dustproof / protective cover, etc. comes off or is lost during transportation, immediately apply dustproof / protective protection.
- (b) Do not throw the valve or subject it to impacts such as dropping, dragging, or tipping over.
- (2) Storage





(a) Store the valve indoors in a well-ventilated place with little dust and humidity. Keep the temperature and humidity of the storage place in the following conditions to prevent deterioration of the rubber material.

Temperature: -10 to 40°C, Humidity: 70% or less

- (b) Store the valve in a packed state on a wooden frame, etc., and do not place it directly on the ground or concrete.
- (c) If you must store it outdoors, cover it with a tarpaulin to protect it from rain, direct sunlight, dust, etc.



CHAPTER IV

Piping installation













- (1) Flange type piping connection
 - (a) Tighten the bolts placed diagonally.
 Tighten alternately.
 Tighten the bolts with even force
 Tighten the bolts evenly and gradually.
 Tighten the bolts more than once.
 - (b) Bolt tightening torque depends on the gasket material. Tighten with appropriate torque.
 - (c) The gasket of the lining valve is rubber, PTFE, etc. Use a material that will not damage the lining.
- (2) Screwed type piping connection
 - (a) Be careful not to damage the screwed part during plumbing work.
 - (b) Process the piping screws to the screw standard that matches the valve to be used.
 - (c) For thread cutting of pipes, please thread within JIS standards.

Please use the automatic round-up type for the thread cutting machine. If the pipe is already threaded, be sure to check the thread gauge to make sure it is threaded correctly.

If the pipe is already threaded, be sure to use a thread gauge to make sure it is threaded correctly.



(1) Disassembly of valve body and screen

The screen of the part is tightened with the appropriate tightening Torque. If the valve body and screen are disassembled, tightening torque may be insufficient or excessive during reassembly. Do not disassemble as it may cause valve leakage or valve damage. Disassembled products are not covered by the warranty.





CHAPTER V

Maintenance and inspection

In order to prevent unexpected accidents and use the valve safely for a long time, perform daily inspections and regular inspections.

It is important to carry out systematically, detect abnormalities at an early stage,

and take appropriate measures.

Even if the valve is used correctly, it has a certain life due to wear and corrosion of parts.

It is also necessary to understand the life of the valve under the conditions of use, and to replace parts and valves.

It is also necessary to establish a maintenance management system, establish standards and standards, and implement education and training.

CHAPTER VI

Waste

(1) Asbestos

Since August 2005, no asbestos has been used in our products. Prior to that, some products used asbestos-containing sealing materials. Sealing materials containing asbestos require proper treatment.

(2) Lead

Bronze casting, which is the standard material for bronze valves, contains about 5% lead. Please separate and dispose of it from lead-free bronze.

