



Fig. KBFV25WG and KBFV25LG Butterfly Valve Installation & Maintenance Instruction

PRODUCT LIFE CYCLE

The life of the valve is dependent on its application, frequency of use and freedom from misuse.

The properties of the fluid being transported such as pressure and temperature must be taken into account to avoid premature failure.

Other factors to be considered are the electrolytic interaction between dissimilar metal used in the system, dezincification and stress corrosion cracking occurring on chilled water service.

Before commissioning a system, it should be flushed to eliminate debris and chemically cleaned as appropriate to eliminate contamination, all of which will prolong the life of the valve.

PRESSURE / TEMPERATURE RATING

These valves must be installed in a piping system where the normal pressure and temperature do not exceed the nominal ratings.

If system testing will subject the valve to pressures in excess of the working pressure rating, this should be within the test pressure for the body with the valve in the open position.

If the limits of use specified in these instructions are exceeded or if used on applications for which it was not designed, a potential hazard could result.

LAYOUT AND SITING

It should be considered at the design stage where valves will be located to give access for operation and inspection.

Please note that this model of PN25 butterfly valves are uni-directional. The direction of the arrow indicates the direction of high to low pressure at shut-off.

END OF LINE SERVICE

The KBFV25WG semi lugged valves are unsuitable for end of line service.

The KBFV25LG fully lugged valves can be used on end of line service but downstream blind flange must be installed.

Valves left unattended for prolonged periods or operated infrequently should be fitted with a blank flange on the downstream side of the valve.

INSTALLATION

The KBFV25WG are semi lugged valves with combined location between the bolt circle diameter and the flange bolts.

The KBFV25LG are fully lugged valves and are located between flanges utilizing the flange bolts.

Valves are lever operated unless a 'G' is included in the figure number which implies gear operated.

Prior to installation, inspect the identification plate and or body marking to ensure that the correct butterfly valve is being installed.

Valves are precision manufactured items and as such, should not be subjected to misuse such as careless handling, allowing dirt to enter the valve through the end ports and excessive force during operation.



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Valves and adjoining pipe work must be provided with adequate support to avoid inducing bending stresses into the valve body, which will impair its performance.

Valves should not be lifted using the lever or gearbox, use the correct slings.

Large sized valves, which are very heavy, may require additional lifting equipment during installation and additional support once installed.

INSTALLATION

Please note that this model of PN25 butterfly valves are uni-directional. The direction of the arrow indicates the direction of high to low pressure at shut-off.

Immediately prior to valve installation, the pipe work to which the valve is to be fastened should be checked for cleanliness and freedom from debris. Valve end protectors should be removed immediately prior to installation.

Butterfly valves should be supplied in the 'closed' position to protect the edge of the disk from damage.

WHEN INSTALLING lever operated valves they should be open one notch and gear operated valves should be open sufficiently to relieve all force from the body liner.

Care should be taken to align the pipe flanges and centralize the butterfly valve, especially the semi lugged model, within the flange bolting.

During assembly bolts should initially be hand tightened sequentially to make the initial contact and ensure that the pipe flanges are parallel.

Finally tighten the bolts gradually and uniformly in an opposing sequence to prevent bending one flange relative to the other, this is a particularly problem with wafer type butterfly valves located within the flange bolting and flanged valves with raised face flanges.

Use only the correct length of studs and stud bolts especial important when installing fully lugged valves.

After installation, the valve may be opened and closed fully to confirm satisfactory operation.

OPERATION - GEAR

A worm gear operator is supplied as standard for all sizes.

The full open and closed position travel stops are factory set and require no further adjustment.

Rotate the hand wheel clockwise to close and anti-clockwise to open the valve until the travel stop is felt at each end of its travel.

No excessive force is required to effect tight shut off and under no circumstance should wheel keys be used

If the valve is difficult to open or close do not force by using wheel keys or similar devices on the hand wheel of the gear operator.

MAINTENANCE

These butterfly are maintenance free.