

# Installation, Operation and Maintenance

## Butterfly Valve Series 65M, 66M

### Safety

Personnel involved in the installation or maintenance removal of butterfly valves from pipelines should be constantly alert to potential leakage or emission of process material and take appropriate precautions to insure safety. Valves that have been removed from service should be handled assuming the presence of process material within the valve. Personnel should be suitably protected.

### Installation

Prior to installation, butterfly valves and mating flanges should be inspected to ensure gasket surfaces are free of defects. Valves should not be mounted between flanges having defective gasket surfaces. Piping should be checked for proper alignment. Lugged butterfly valves should be checked for proper alignment. Lugged butterfly valves should never be used to align improperly positioned piping. The distance between pipe flanges should be checked to ensure sufficient clearance for valve installation. The valve should be in the closed position when being placed between flanges. For wafer valves, the valve must be visually centered with respect to the flange faces while lugged valves may be centered with flange bolting. The valve should be operated to ensure that no binding or interference is taking place. Flange bolting should be tightened gradually in a crisscross manner according standard piping practice and/or owner's piping standard.

The flange joint is complete after the valve body bottoms against the flange faces evenly such that no gaps exist. Bolting should then be tightened sufficiently to prevent loosening of the joint.

### Maintenance

Butterfly valves are designed such that no periodic maintenance or lubrication is required throughout the life of the product. It is, however, recommended that the following practices be followed on at least a monthly basis:

1. Operate the valve from full open to closed to ensure operability.
2. Check fasteners for evidence of loosening and correct as required.
3. Inspect valve and surrounding area for previous or existing leakage at flange faces or stem connections.
4. Check piping and/or wiring to actuators and related equipment for looseness, corrosion or defects, and correct as required.

### Removal of Valve from Pipeline

Prior to loosening the flange bolts (valve in open position):

1. Drain piping run as much as possible.
2. Vent line to relieve pressure.

Close valve, then:

1. Disconnect air/electric lines from actuator, tag for reinstallation.
2. Loosen flange bolts to decompress valve gasket seals.

**CAUTION:** Be alert to emission of process material from pipeline.

1. Secure necessary lifting equipment to valve assembly.
2. Remove flange bolting and carefully remove valve from between pipe flanges.

#### CALIFORNIA PROPOSITION 65 WARNING

**WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. (California law requires this warning to be given to customers in the State of California.)

For more information: [www.watts.com/prop65](http://www.watts.com/prop65)

**Limited Warranty:** Mueller Steam Specialty warrants each product to be free from defects in material and workmanship under normal usage for a period of one year from the date of original shipment. In the event of such defects within the warranty period, the Company will, at its option, replace or recondition the product without charge. This shall constitute the sole and exclusive remedy for breach of warranty, and the Company shall not be responsible for any incidental, special or consequential damages, including without limitation, lost profits or the cost of repairing or replacing other property which is damaged if this product does not work properly, other costs resulting from labor charges, delays, vandalism, negligence, fouling caused by foreign material, damage from adverse water conditions, chemical, or any other circumstances over which the Company has no control. This warranty shall be invalidated by any abuse, misuse, misapplication or improper installation of the product. **THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** Any implied warranties that are imposed by law are limited in duration to one year.

Some States do not allow limitations on how long an implied warranty lasts, and some States do not allow the exclusion or limitation of incidental or consequential damages. Therefore the above limitations may not apply to you. This Limited Warranty gives you specific legal rights, and you may have other rights that vary from State to State. You should consult applicable state laws to determine your rights.

ISO 9001-2008  
CERTIFIED



**Mueller Steam Specialty™**

A Watts Water Technologies Company

USA: 1491 NC Hwy 20 West, St. Pauls, NC 28384; [www.muellersteam.com](http://www.muellersteam.com)

Tel: 910-865-8241 Fax: 910-865-6220

Toll Free Phone 1-800-334-6259 Toll Free Fax: 1-800-421-6772