



SERIES 840 AWWA BUTTERFLY VALVE

Installation, Operation and Maintenance

GENERAL

The valve is shipped from the factory assembled with its actuator complete. The stops are preset, and the valve has been operated and tested. In service, some minor adjustments to the stops may be required. Only factory authorized personnel should attempt to make these adjustments.

CONNECTIONS

Mating flanges must comply with ASME/ANSI B16.1, Class 125 or ASME/ANSI B16.5, Class 150. Mechanical joint connections must comply with ANSI/AWWA C111/A21.11.

LOCATION

It is recommended that the valve be installed at a distance of at least (8) pipe diameters downstream from the nearest pump or elbow.

ORIENTATION

Although the valves are designed to operate in any position, it is recommended that the valve be installed with the shaft in the horizontal position. It is also preferred that the bottom or opening half of the valve disc cycles downstream of the valve body.

INSTALLATION

1. Prior to installation, all foreign material that could damage the resilient seat should be removed from the valve, adjacent pipe areas and pipeline.
2. Prepare the faces of the mating flanges by thoroughly cleaning with a suitable solvent.



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INSTALLATION – (continued)

3. Verify that the valve is fully closed and position the valve between the mating flanges of the pipeline. The mating flanges must be parallel to the valve flanges. Extreme caution should be exercised not to distort the valve body to accommodate any mis-alignment of the pipeline.
4. Align the upstream gasket to the body holes and the corresponding bolt holes of the pipeline flange.
5. Insert (2) bolts at the bottom of the flange to aid in supporting and aligning the valve.
6. Insert the remaining bolts around the flange and lightly tighten.
7. Repeat this procedure on the downstream flange.
8. Final tightening of all bolts should be done by tightening those bolts opposite each other in alternate sequence.

OPERATION

Verify that the valve is operating properly by manually cycling from full closed to full open. The valve disc should operate freely. If the valve is electrically, pneumatically or hydraulically actuated, use the manual override system to perform this operation. The normal rotational direction of the valve is “clockwise to close”. Under certain circumstances this rotation may be reversed.

POWER ACTUATED VALVES

Check the source of supply and verify that all necessary pneumatic or electrical connections are compatible with the actuator requirements. After connection of the actuator power supply, cycle the valve several times to determine whether the connections are correct and that the valve is performing properly. All stops, limit switches and torque switches are set at the factory and should require no adjustment.



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MAINTENANCE

The Homestead Series 840 valve has been designed for long service life with minimum maintenance requirements. Outside of periodic seat adjustments and replacement of the packing, all other replacements are considered as overhaul procedures for which the valve must be removed from the line. This valve does not require routine lubrication maintenance.

STORAGE

The valves should be stored in a clean, dry, cool location and should be protected from dust, freezing water or ultraviolet rays. Should it be necessary to store outdoors, precautions should be taken to store high enough off the ground and covered to ensure that they are protected from rain and snow.