

FG-BO-G & FG-BO-W - 300 psi

BUTTERFLY VALVE



PRODUCT OVERVIEW



BUTTERFLY VALVE

GROOVED END & WAFER TYPE 300PSI 2½" - 12"

Butterfly valves are indicating type designed for use in fire protection systems where a visual indication is required as to whether the valve is open or closed. They are used, for example, as system, sectional, and pump water control valves. They have cut groove inlet and outlet connections that are suitable for use with grooved end pipe couplings that are listed and approved for fire protection systems.

TECHNICAL DATA

MODEL	FG-BO-G, FG-BO-W-300Psi 2½" (DN65), 3" (DN80) 4" (DN100), 6" (DN150), 8" (DN200), 10" (DN250) & 12" (300)
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SIZE	ANSI inches/DN
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APPROVALS	The 2½" through 8" Wafer type & Grooved End butterfly valves are UL Listed & FM Approved from 10" are UL approved only
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MAX. WORKING PRESSURE	* 2½" - 12" (DN65-DN300) 300psi (20.7 bar)
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MATERIAL OF CONSTRUCTION

BODY & COATING	Ductile iron conforming to ASTM A-395. Polyamide
DISC	Same as body
DISC SEAT	Grade EPDM "E" encapsulated rubber conforming to ASTM D-2000
UPPER & LOWER STEM	Type 416 stainless steel conforming to ASTM 582
LOWER PLUG	PVC
Operator Gear operator with iron housing	

ALL LABORATORY LISTINGS AND APPROVALS ARE FOR INDOOR AND OUTDOOR USE.

For applications requiring supervision of the open position of the valve, the Gear Operators for the Model BO-G Butterfly Valves are provided with two sets of factory installed internal switches each having SPDT contacts. The supervisory switches transfer their electrical contacts when there is movement from the valve's normal open position during the first two revolutions of the handwheel.

Friction loss

The approximate friction loss, based on the Hazen Williams formula and expressed in equivalent length of pipe with $c=120$, is as follows. The data is based on friction loss information collected at a typical flow rate of 15 feet per sec.

- * 6.9 of 2½" Sch. 40 pipe for the 2½" valve
- * 8.7 of 3" Sch. 40 pipe for the 3" valve.
- * 4.5 of 4" Sch. 40 pipe for the 4" valve.
- * 11.1 of 6" Sch. 40 pipe for the 6" valve.
- * 10.2 of 8" Sch. 30 pipe for the 8" valve.

MODEL	DESCRIPTION
FG-BO-G	GROOVED TYPE BUTTERFLY VALVE
FG-BO-W	WAFER TYPE BUTTERFLY VALVE



INSTALLATION

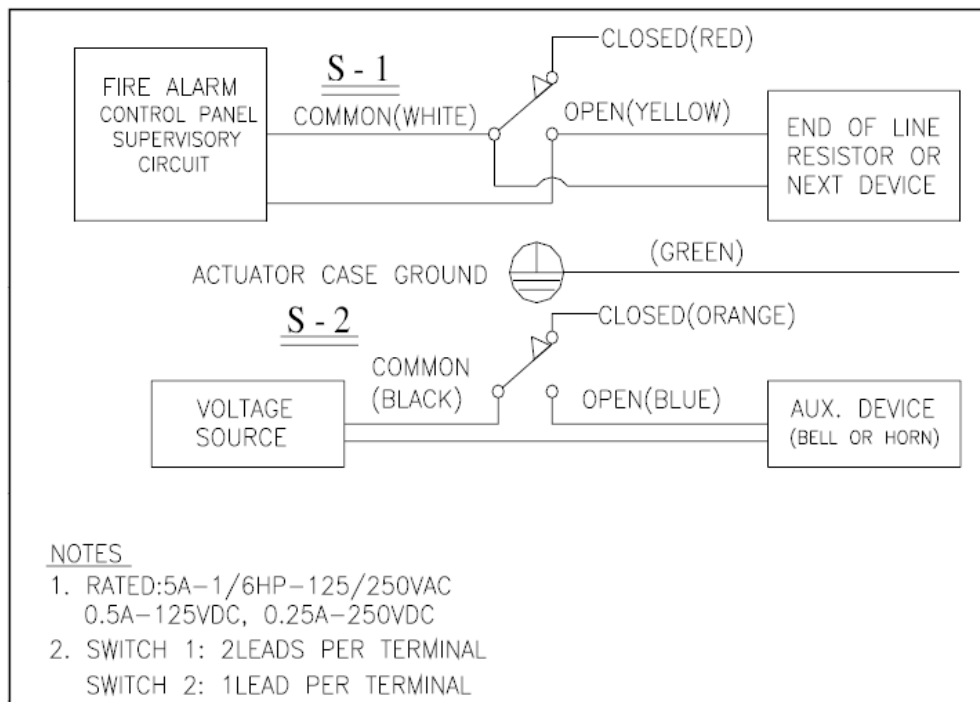
The Model BO-G Grooved End Butterfly valves may be installed with flow in either direction and can be positioned either horizontally or vertically. The grooved end pipe couplings used with the Model BO-G must be listed or approved for fire protection service and installed in accordance with the manufacturers instructions.

The Model BO-G Butterfly Valve may be installed with any schedule of pressure class of pipe or tubing that is listed or approved for fire protection. As applicable, refer to Figure 2 for the internal switch wiring diagram.

Conduit and electrical connections are to be made in accordance with the authority having jurisdiction and or the National Electrical Code. With reference to Figure 2, the "supervisory switch" is intended for connection to the supervisory circuit of a fire alarm control panel in accordance with NFPA 72. The "auxiliary switch" is in-tended for the unsupervised connection to auxiliary equipment in accordance with NFPA 70. National Electric code.

NOTE

For outdoor applications with internal supervisory switches, it is recommended that wiring connection be made at a temperature above 15?(-9?), in order to insure sufficient flexibility of the wire lead insulation.



Care and Maintenance

The owner is responsible for the inspection, testing, and maintenance of their fire protection system and devices in accordance with the applicable standards of the National Fire Protection Association (e.g., NFPA25), in addition to the standards of any authority having jurisdiction. The installing contractor or product manufacturer should be contacted sprinkler stems be inspected tested and maintained b a q alified inspection ser vice relative to any questions. Any impairment must be immediately corrected. It is recommended that automatic systems inspected, tested, by qualified service.

NOTE

Before closing a fire protection system control valve for maintenance or inspection work on either the valve or fire protection system which it controls. permission to shut down the affected fire protection systems must be obtained from the proper authorities and all personer who may be affected by this

WARNINGS

The Model BO-G Grooved End Butterfly valves described herein must be installed and maintained in compliance with this documents, as well as with the applicable standards of the National Fire Protection Association, in addition to the standards of any oher authorities having jurisdiction. Failure to do so may impair the performance of these devices.

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