FIREGUARD GLOBAL LTD

BUTTERFLY VALVE

GROOVED END & WAFER TYPE 300PSI

DESCRIPTION

The Grooved End & Wafer type 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. 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 hand wheel.

UL LISTED FM APPROVED

TECHNICAL DATA

MODEL	FG-BO-G, FG-BO-W-300Psi 2 ½" (DN65), 4" (DNIOO), 6" (DN200),
SIZE	ANSI inches/DN
MODEL	The 2 ½" through 8" Wafer type & Grooved End butterfly valves are UL Listed & FM Approved from 10" are UL approved only
MAX. WORKING PRESSURE	*2 ½" - 12" (DN65-DN300) PRESSURE 300psi (20.7 bar)

MATERIAL OF CONSTRUCTION

BODY & CASTING	Ductile iron conforming to ASTM A-395.Poly-amide
DISC	SAME AS BODY
DISC SEAT	Grade EPDM "E" encapsulated rubber conforming to ASTM D-2000
UPPER & LOWER STEM	Typr 416 stainless steel conforming to ASTM 582

FRICTION LOSS

The approximate friction loss, based on the Hazen Williams formula and ex-pressed 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 21/2" Sch. 40 pipe for the 2 ½" valve
- 8.7 of 3" Sch. 40 pipe for the 3" valve.
- 4.5 of 41 Sch. 40 pipe for the 4" valve.
- 11.1 of 6 " Sch. 40 pipe for the 6" valve.
- 10.2 of 81 Sch. 30 pipe for the 8" valve.

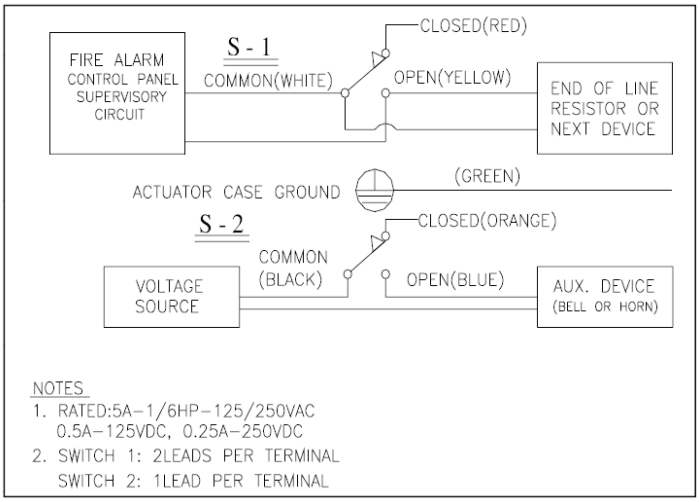
WARINING

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

The owner is responsible for maintaining their fire protection system and devices in proper operation condition. The installing contractor or sprinkler manufacturer should be contacted with and questions.

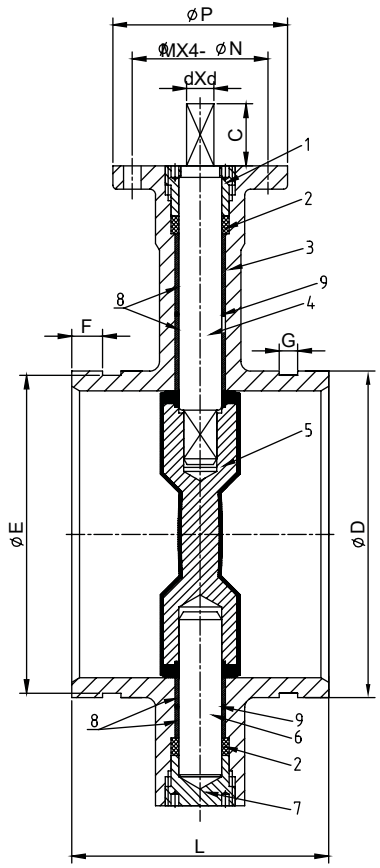
INSTALLATION

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 manufacturer's 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.

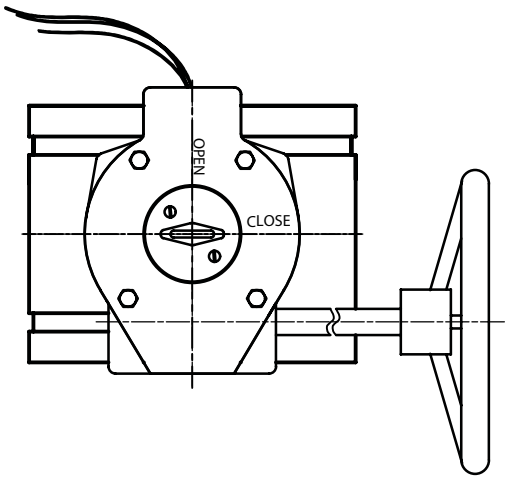


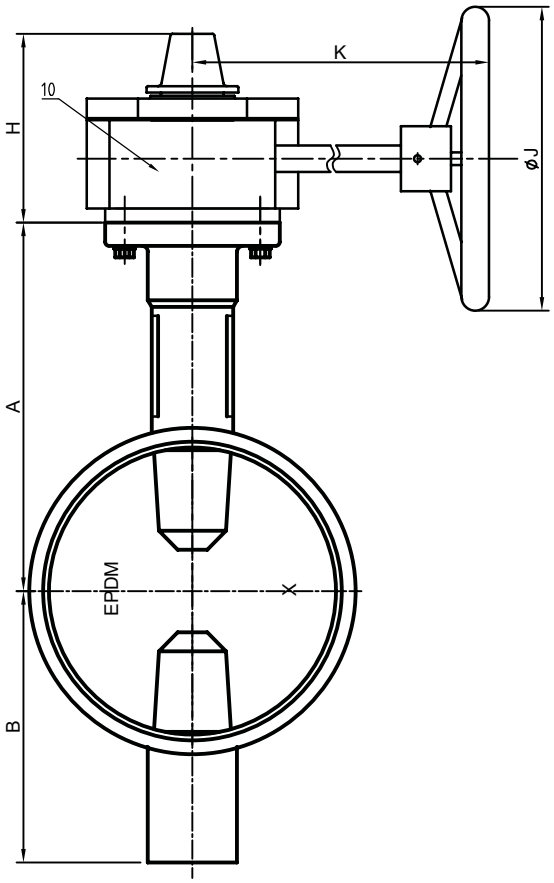
CARE & MAINTENANCE

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 sprinklers stems be inspected tested and maintained by a qualified inspection service relative to any questions. Any impairment must be immediately corrected. It is recommended that automatic systems inspected, tested, by qualified service.



NO.	NAME	WCB	REMARK	DRAWING CODE
1	Upper shaft sealing Nut	WCB	ASTM A216	GD-381X-05-01
2	Shaft Seal	EPDM	ASTM D2000	GD-381X-04
3	Body	DI	ASTM A536	GD-381X-01
4	Upper Shaft	SS416	ASTM A582	GD-381X-03
5	Disc	DI+EPDM		GD-381X-02
6	Lower Shaft	SS416	ASTM A582	GD-381X-03
7	Lower Shaft sealing Nut	WCB	ASTM A2216	GD-381X-07-06
8	Stem Bushing	PTFE	2" - 6"	GD-381X-07-06
		FZ2175	8"	
9	O-ring	EPDM		
10	Gear Box			XHQD-00-00 or XDQD-00-00A





SIZE	A	B	C	D	E	F	G	H	K		J	P	M	N	d	L
2”	110	85	32	60.3	57.15	15.9	7.9	111	153	218	152	90	70	9	10	88 81
2.5”	125	95	32	73 76.1	69.1 72.3	15.9	7.9	111	153	218	152	90	70	9	10	96.4
3”	140	100	32	88.9	84.9	15.9	7.9	111	153	218	152	90	70	9	11	97
4”	160	100	32	114.3	110.1	15.9	7.9	111	153	218	152	90	70	9	14	115.1
5”	170	125	32	139.7 141.3	135.5 137	15.9	9.5	111	153	218	152	90	70	9	14	132.4 148
6”	190	140	32	165.1 168.3	160.9 164	15.9	9.5	111	153	218	200	90	70	9	16	132.4 148
8”	230	175	32	219.1 216.3	214.4 211.6	19	11.1	126	210	232	300	125	102	12	19	147.4 133
10”	260	200	45	267.4 273	262.6 268.6	19	12.7	126	210	232	300	125	102	12	24	159
12”	300	240	45	318.5 323.9	312.9 318.3	19	12.7	161	249		350	150	125	14	26	165

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 personnel who may be affected by this decision must be notified.