KENNEDY VALVE

UL-FM BUTTERFLY VALVES
FIGURES XBFV, XBFV-T, XBFV-W AND BB

1" - 12"

Overview

Designed for trouble free reliability, Kennedy Valve's UL Listed and FM Approved XBFV and BB Butterfly valves are ideal for use in fire protection systems. Kennedy's butterfly valves offer slow closing utilizing smooth gear operators.

All figure types are offered with a visual vane and wired supervisory switch and are available as either normally open or closed. Actuators are rated IP65.

Valve bodies are constructed of durable ductile iron or bronze for a lightweight superior product. We utilize stainless steel shafts as well as EPDM encapsulated discs. Bodoes are nylon coated for long-lasting service.

The BB-G grooved and BB-T threaded valves butterfly products are constructed of bronze and are UL Listed and FM Approved to 175psi.

The BB-G prouct is available in 2" and 2½" and the BB-T is avaiable from 1" thru 2½".

All XBFV valves have large diameter replaceable handwheels and switches to maintain system continuity during service and maintenance.

Manufacturing Standards - ISO 9001, ISO 14001, ISO 45001

UL

FM APPROVED

Technical Data

Available Sizes: 1" to 12" (DN25 - DN300)

UL Listed and FM Approved Pressure: XBFV and XBFV-T models 2" - 8" at 300 psi (20,7 bar)
XBFV and XBFV-T models 10" - 12" at 175psi (12,1 bar)
XBFV-W models 2" - 12" at 300psi (20,7 bar)
BB models 1"- 2½ at 175PSI (12,1 bar)

BODY CONSTRUCTION BY END CONDITION
Grooved: Ductile Iron, Brass/Bronze
Wafer: Ductile Iron
Threaded: Brass/Bronze

COATINGS
XBFV, XBFV-T and XBFV-W models: Nylon Coated

END CONDITION
Grooved: Standard IPS Grooves per ANSI/AWWA C606
Wafer: Suitable for fitup between ANSL Class 125/150 Flanges
Threaded Ends: NPT

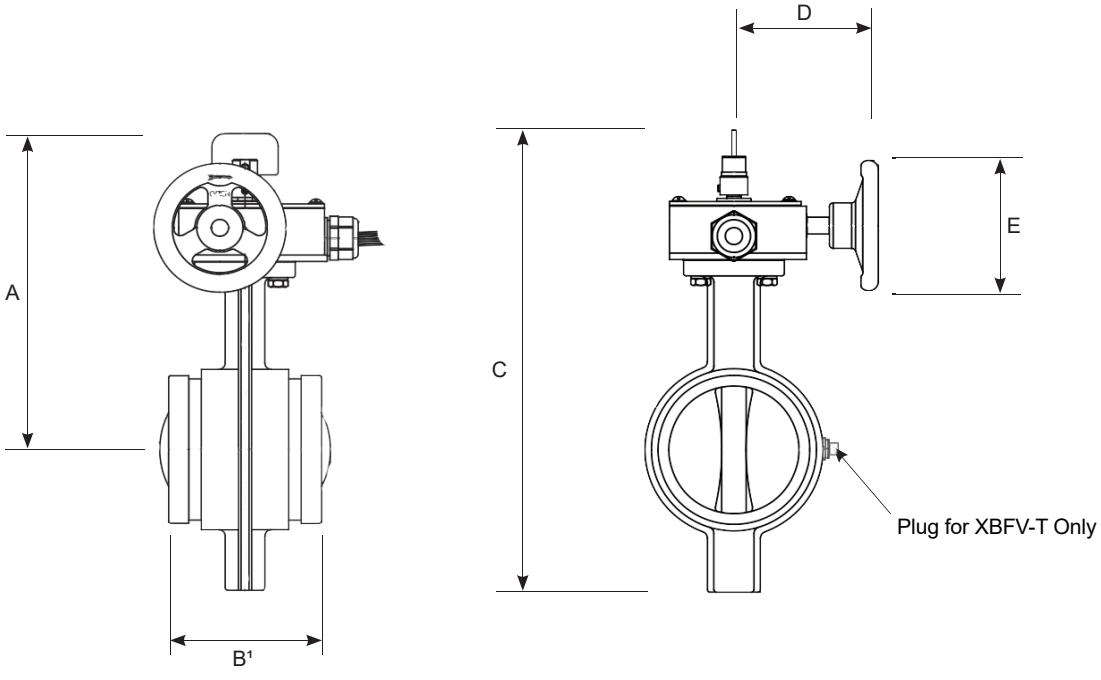
DISC
Disc: Ductile Iron or Bronze
Disc Coating: EPDM Encapsulated

STEM MATERIAL
Upper and Lower: Hardened 400 Series Stainless Steel

BODY TAPPING
XBFV-T come with two ⅜" tapped locations on 2 ½" - 3" valves and two ½" taps on all larger valves offering superior suitability for system risers or backflow installations.

APPLICATION
Operator Rated IP65 use.

OPTIONS
Contact customer service for additonal informaiton



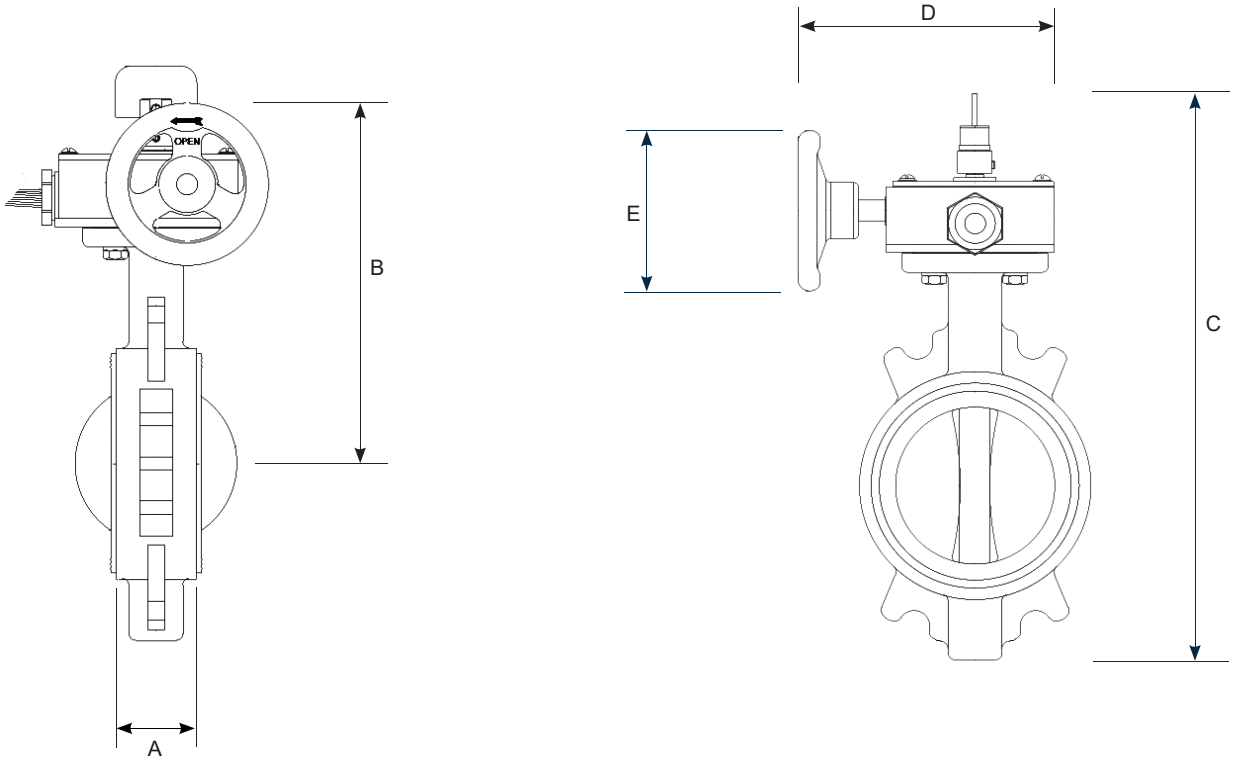
XBFV **XBFV-T**

Basic Components

No.	XBFV	XBFV-T	Description	Material
1	•	•	Body	Ductile Iron
2	•	•	Encapsualted Disc	Stainless Steel/EPDM Coated
3	•	•	Upper and Lower Stem	Stainaless Steel
4	•	•	Gear Box Assembly	Ductile Iron
5	•	•	Hand Wheel	Ductile Iron pinned to Gear Shaft
6	•	•	Position Indicator Flag	Carbon Steel
7	•	•	Supervisory Tamper Switch	Switch in Gear Box with Wiring Assembly
8		•	Plug (2)	Low Carbon Steel

Dimensions

Size (nom. inches)	A	B¹ XBFV	B² XBFV-T	C XBFV	C XBFV-T	D XBFV	D XBFV-T	E XBFV	E XBFV-T	XBFV Wt. (lbs)	XBFV-T WT. (lbs)
2" (DN50)	3.76	3.19	-	10.63		4.24		3.94		9.60	
2 ½" (DN65)	8.36	3.80	3.80	11.72	12.69	4.24	6.61	3.94	4.92	11.20	19.14
3" (DN80)	8.63	3.80	3.80	12.22	13.18	4.24	6.61	3.94	4.92	12.60	20.90
4" (DN100)	9.63	4.54	4.54	13.92	14.88	4.24	6.61	3.94	4.92	15.70	24.20
6" (DN150)	11.36	5.21	5.83	17.07	17.64	4.24	8.19	5.90	8.86	29.30	35.64
8" (DN200)	12.32	5.80	5.24	19.02	17.64	5.79	8.19	8.86	8.86	49.60	49.60
10" (DN250)	14.78	6.26	6.26	22.40	22.40	8.19	8.19	11.40	11.40	73.40	73.40
12" (DN300)	15.48	6.50	6.50	25.39	25.39	8.19	8.19	11.40	11.40	89.30	89.30

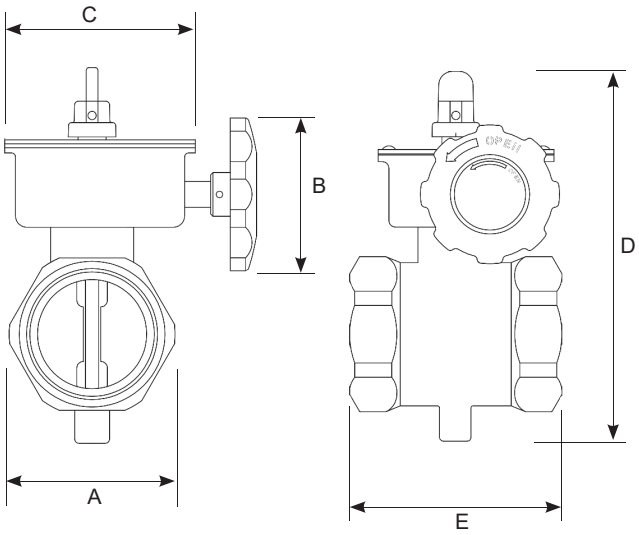


Basic Components

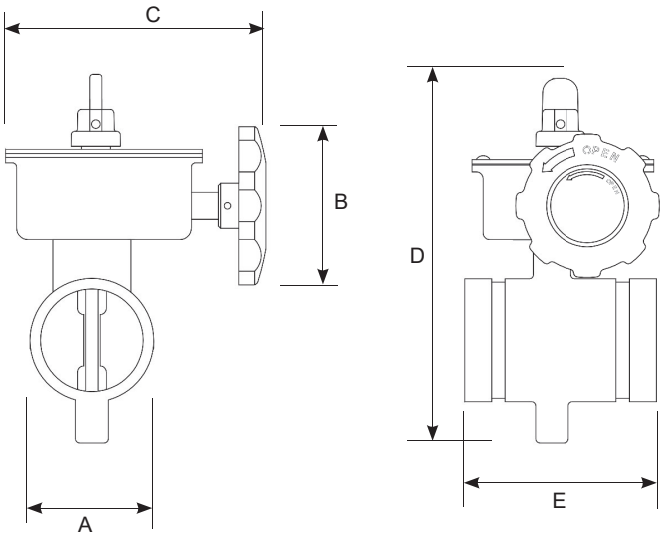
No.	XBFV-W	Description	Material
1	•	Body	Ductile Iron
2	•	Encapsualted Disc	Ductile Iron/EPDM Coated
3	•	Upper and Lower Stem	Stainaless Steel
4	•	Gear Box Assembly	Ductile Iron
5	•	Hand Wheel	Ductile Iron pinned to Gear Shaft
6	•	Position Indicator Flag	Carbon Steel
7	•	Supervisory Tamper Switch	Switch in Gear Box with Wiring Assembly

Dimensions

Size (nom. inches)	A	B	C	D	E	Weight (lbs)
2" (DN50)	1.73	7.36	10.63	6.27	4.92	11.46
2 ½" (DN65)	1.89	7.91	11.67	6.27	4.92	13.40
3" (DN80)	1.89	8.27	12.27	6.27	4.92	14.77
4" (DN100)	2.16	9.21	13.92	6.27	4.92	15.65
6" (DN150)	2.32	11.40	16.00	8.11	5.91	25.35
8" (DN200)	2.48	13.86	17.07	8.11	8.86	31.53
10" (DN250)	3.03	15.53	23.01	11.10	8.86	64.60
12" (DN300)	3.15	16.63	25.16	11.10	8.86	86.42



BB-T



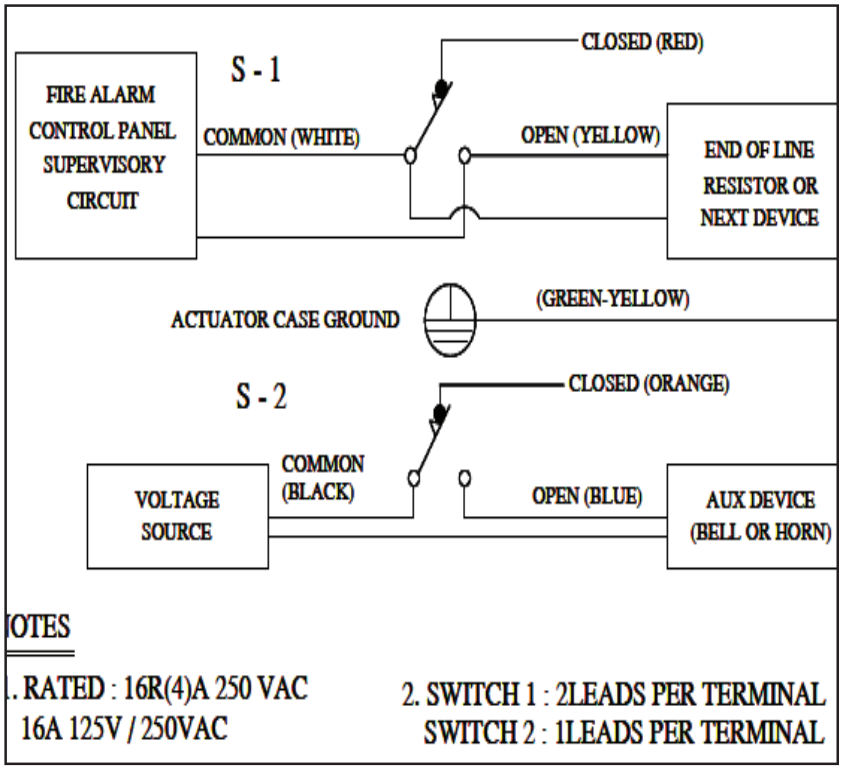
BB-G

Basic Components

No.	BFV-W	BB-T/G	Description	Material
1	•		Body	Brass/Bronze
1		•	Body	Brass/Bronze
2	•	•	Encapsualted Disc	Bronze/EPDM Coated
3	•	•	Upper and Lower Stem	Stainaless Steel
4	•	•	Gear Box Assembly	Carbon Steel
5	•	•	Hand Wheel	Carbon Steel
6	•	•	Position Indicator Flag	Carbon Steel
7	•	•	Supervisory Tamper Switch	Switch in Gear Box with Wiring Assembly

Dimensions

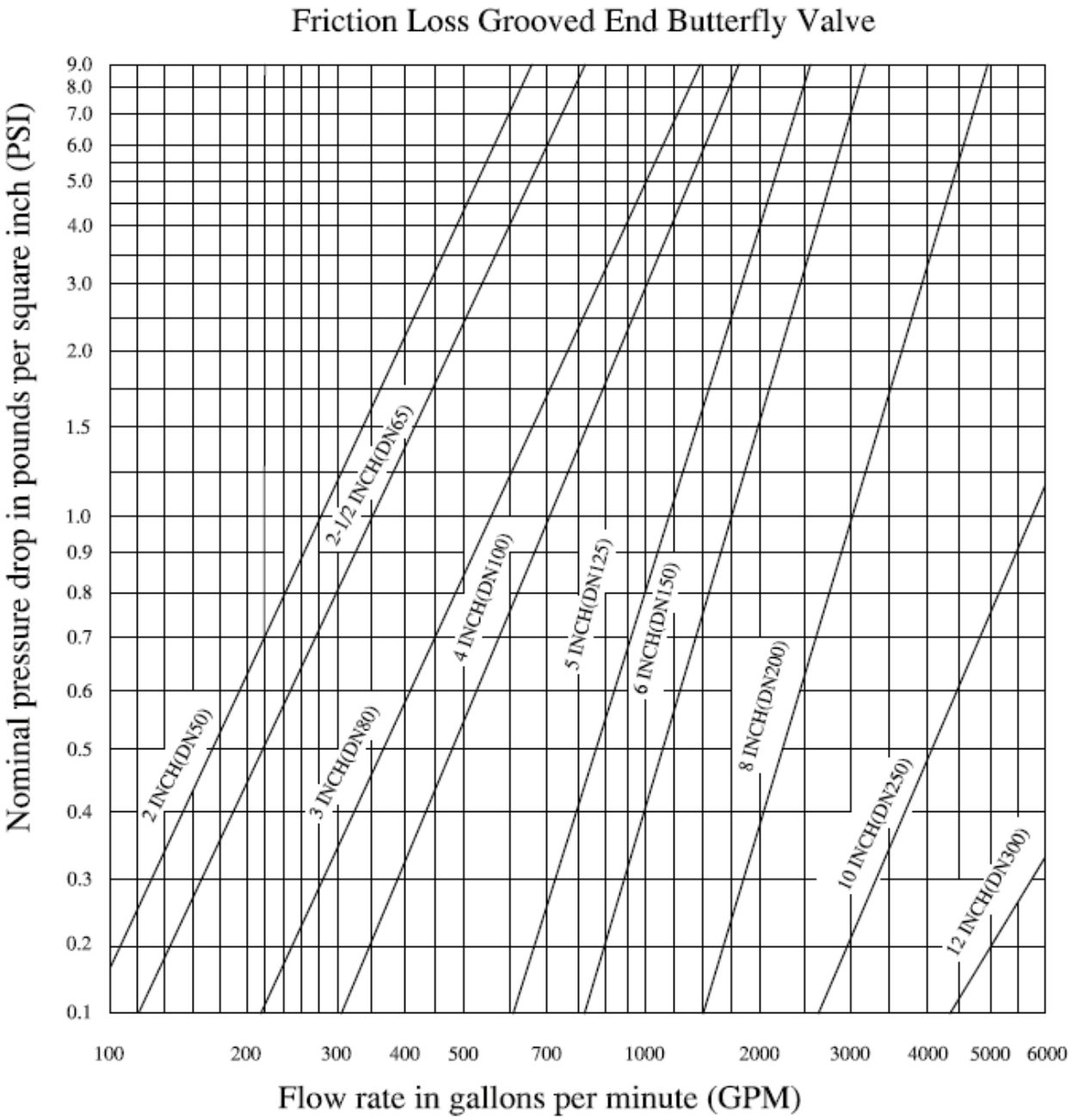
Size (nom. inches)	A	B	C	D	E	Weight (lbs)
1" (DN25)	1.72	1.78	2.44	4.30	2.13	3.30
1 ¼" (DN32)	2.09	1.78	2.44	4.63	2.64	3.74
1 ½" (DN40)	2.30	1.78	2.44	4.89	2.87	3.96
2" (DN50)	2.99	1.78	2.44	5.37	3.24	5.28
2 ½" (DN65)	3.50	1.78	2.44	5.68	4.09	6.62
2" (DN50)	2.37	1.78	2.44	5.21	4.49	4.84
2 ½" (DN65)	2.87	1.78	2.44	5.46	4.49	5.28

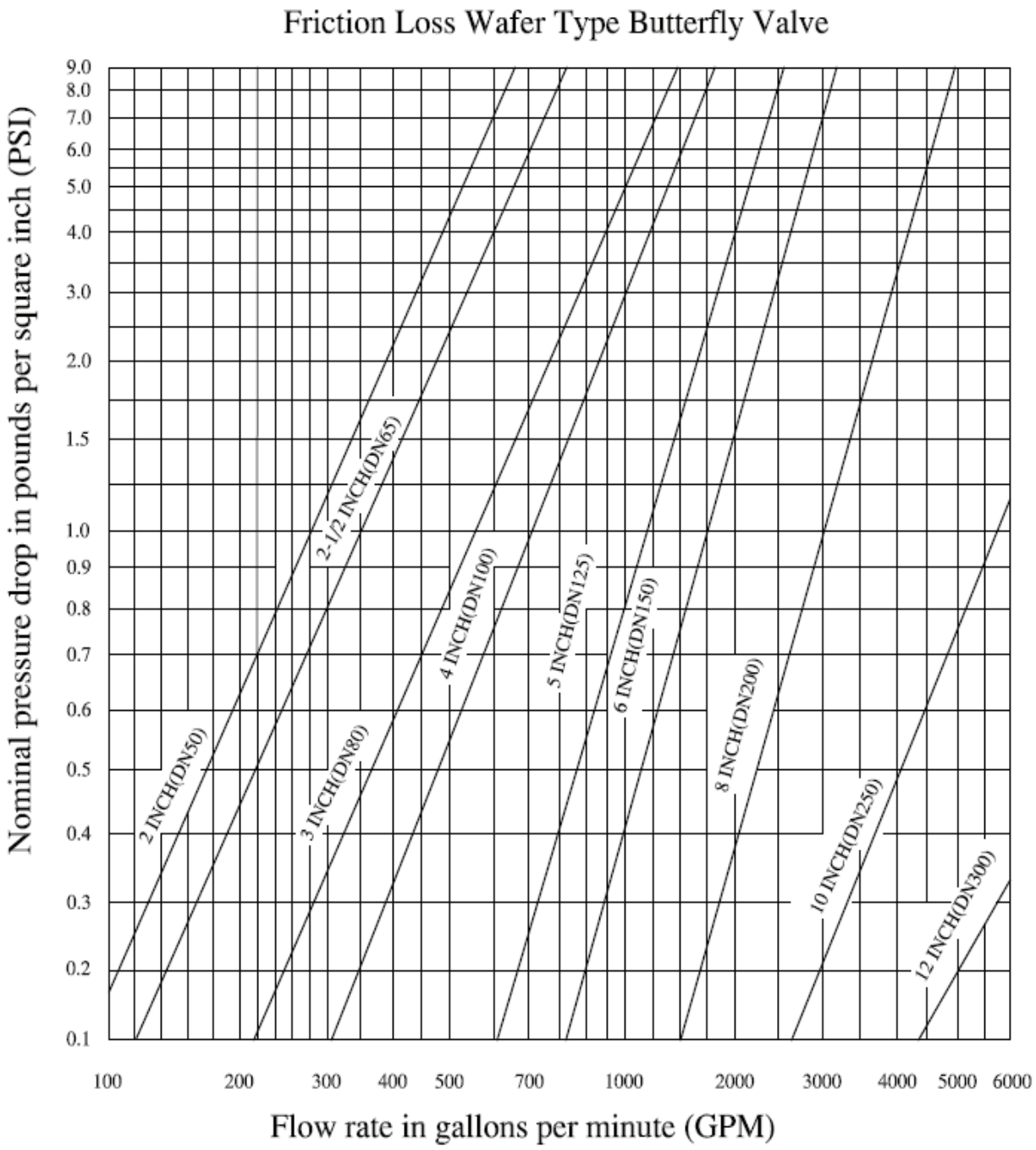


WIRING NOTES: Connection to power limited circuitry is required. Auxiliary switch is for supplemental use only, and shall not be used for fire alarm signaling applications.

Switches are checked at factory, check continuity with valve fully open, switches activate within two turns from open.

CAUTION: PRIOR TO INSTALLATION OF SUPERVISORY SWITCHES IN FIRE PROTECTION SYSTEMS REFER TO THE FOLLOWING STANDARDS:
NFPA 13: STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
NFPA 25: INSPECTION, TESTING, MAINTENANCE OF WATER BASED FIRE PROTECTION SYSTEMS
NFPA 70: NATIONAL ELECTRICAL CODE
NFPA 72: NATIONAL FIRE ALARM CODE
CSA C22.1 NO.1 CANADIAN ELECTRICAL CODE, PA RT 1, SAFETY STANDARD FOR ELECTRICAL INSTALLATIONS SECTION 32
CAN/ULC-S524, STANDARD FOR INSTALLATION OF FIRE ALARM SYSTEMS


Friction Loss Grooved End Butterfly Valve
Nominal pressure drop in pounds per square inch (PSI)
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.5
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
2 INCH(DN50)
2-1/2 INCH(DN65)
3 INCH(DN80)
4 INCH(DN100)
5 INCH(DN125)
6 INCH(DN150)
8 INCH(DN200)
10 INCH(DN250)
12 INCH(DN300)
100
200
300
400
500
700
1000
2000
3000
4000
5000
6000
Flow rate in gallons per minute (GPM)


Friction Loss Wafer Type Butterfly Valve
Nominal pressure drop in pounds per square inch (PSI)
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.5
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
2 INCH(DN50)
2-1/2 INCH(DN65)
3 INCH(DN80)
4 INCH(DN100)
5 INCH(DN125)
6 INCH(DN150)
8 INCH(DN200)
10 INCH(DN250)
12 INCH(DN300)
100
200
300
400
500
700
1000
2000
3000
4000
5000
6000
Flow rate in gallons per minute (GPM)