

**BLAZE**

Butterfly Valve - Wafer Type

Model : BT 5403

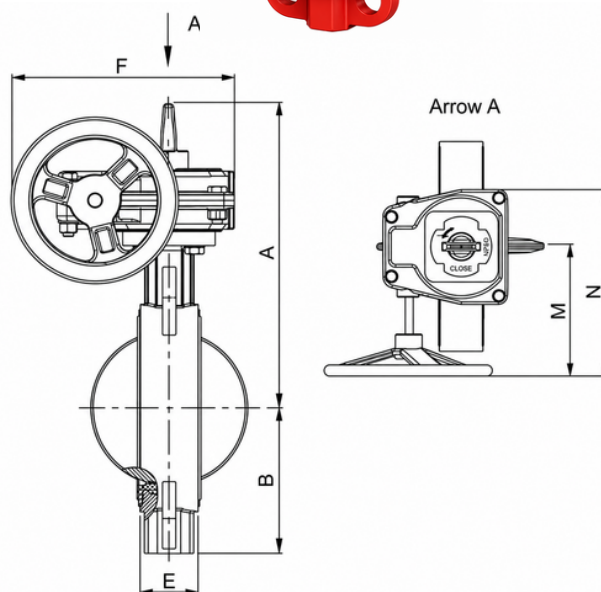
Description:

The Wafer Butterfly Valve is a gear-operated isolation valve equipped with a high-visibility indicator flag to clearly show the "Open" or "Closed" position. Ideal for use as isolation or zone control valves within fire protection systems and fire pump rooms. When fully engaged in the open position, the valve provides an unobstructed flow path, minimizing pressure drop and turbulence. The integrated gearbox enables effortless manual operation and ensures a controlled closing speed to mitigate the risk of water hammer.

Specifications:

- One-Piece Splined Stem
- Vulcanized Disc Design for Bubble-Tight Shutoff.
- Outdoor and Indoor rated.
- Flag Type Position Indicator.
- Built-in Supervisory Switch.
- Face to Face Dimension complies with ASME B16.10 Narrow and EN558 Series 20.
- Connected Flange complies with ASME B16.5 Class 150 and EN1092 PN10/16. (Other Flange Types available upon request)

Size	DN50 - DN300 (2" - 12")
Maximum Working Pressure	20.7 bar (300 psi)
Approvals	UL 1091 Listed
Design Standard	EN 593 and MSS SP-67
Temperature Range	0° C to 80°C (32°F to 176°F)
Coating	Fusion Bonded Epoxy Coated Interior and Exterior to AWWA C550 Standard. Average Coating Thickness 250 Microns
Wedge	Ductile-Iron Wedge, EPDM Encapsulated.



Dimensions:

Order Code	DN	INCH	L (mm)	A (mm)	B (mm)	C (mm)	D (mm)	G (mm)	H (mm)	M (mm)	N (mm)
BT-5403-050-300-W	50	2"	43	110	74	52	90	115	304	140	220
BT-5403-065-300-W	65	2½"	46	118	85	52	90	115	323	140	220
BT-5403-080-300-W	80	3"	46	130	95	52	90	115	345	140	220
BT-5403-100-300-W	100	4"	52	145	115	52	90	115	380	140	220
BT-5403-125-300-W	125	5"	56	160	130	52	90	165	410	140	220
BT-5403-150-300-W	150	6"	56	175	145	52	90	165	440	140	220
BT-5403-200-300-W	200	8"	60	200	170	72	125	295	530	205	310
BT-5403-250-300-W	250	10"	68	250	210	72	125	295	618	215	320
BT-5403-300-300-W	300	12"	78	275	240	72	125	295	673	215	320

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Installation Guidelines:

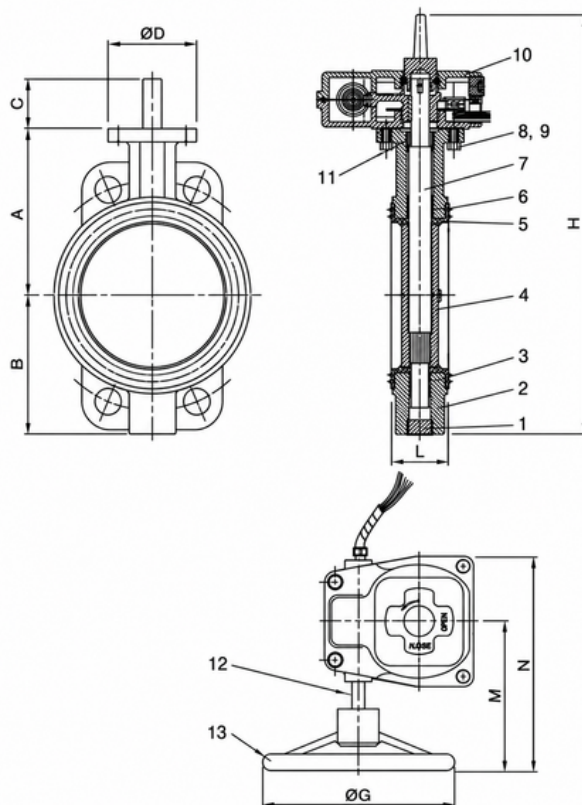
These valves are suitable for both indoor and outdoor environments and can be installed in any orientation or flow direction.

- It is recommended to provide independent support for the valve to isolate it from vibrations or stresses transmitted by the connecting piping system.
- Verify the valve is in the closed position before installation.
- Visually inspect the unit for transit damage. Ensure the seating area is pristine and free of debris.
- Confirm that connecting grooved fittings match the valve's size and pressure rating.
- Thoroughly flush the piping system to remove debris before performing a hydrostatic test.
- After flushing, cycle the valve to ensure smooth mechanical operation.

Care & Maintenance

While these valves are designed for long-term reliability without intensive maintenance, regular inspections should be performed by authorized personnel in accordance with NFPA and AHJ guidelines.

- Periodically verify that the gearbox and handwheel operate smoothly, joints remain leak-free, and supervisory switch (I/M switch) connections are secure.
- Obstruction Clearing: If the valve fails to close fully, inspect the seat for foreign particles. Clean the area before attempting to re-close.
- While suitable for outdoor use, direct sunlight may cause minor surface discoloration over time; this is cosmetic and does not impact operational performance.
- Never use a wrench or "cheater bar" on the handwheel to force a seal. Excessive force can cause permanent damage to internal components and will void the product warranty.
- Do not use the valve body to force alignment of the pipeline, as this may lead to structural damage or seal failure.



Material Specification :

Item	Part Name	Material	ASTM Specification
1	Plug	Carbon Steel	Chrome Plated
2	Body	Ductile Iron	A536 Grade 65-45-12
3	Shaft Bushing	Brass	B124 C37700
4	Disc	Ductile Iron	A536 Grade 65-45-12
5	Body Liner	Rubber	D2000 EPDM
6	Shaft Bushing	Brass	B124 C37700
7	Stem	Stainless Steel	A276 Type 431
8	Bolt	Carbon Steel	A307 Class B
9	Washer	Stainless Steel	A276 Type 304
10	Gearbox House	Grey Cast Iron	A126 Class B
11	Upper Bushing	Brass	B124 C37700
12	Shaft	Stainless Steel	A276 Type 420
13	Handwheel	Ductile Iron	A536 Grade 65-45-12

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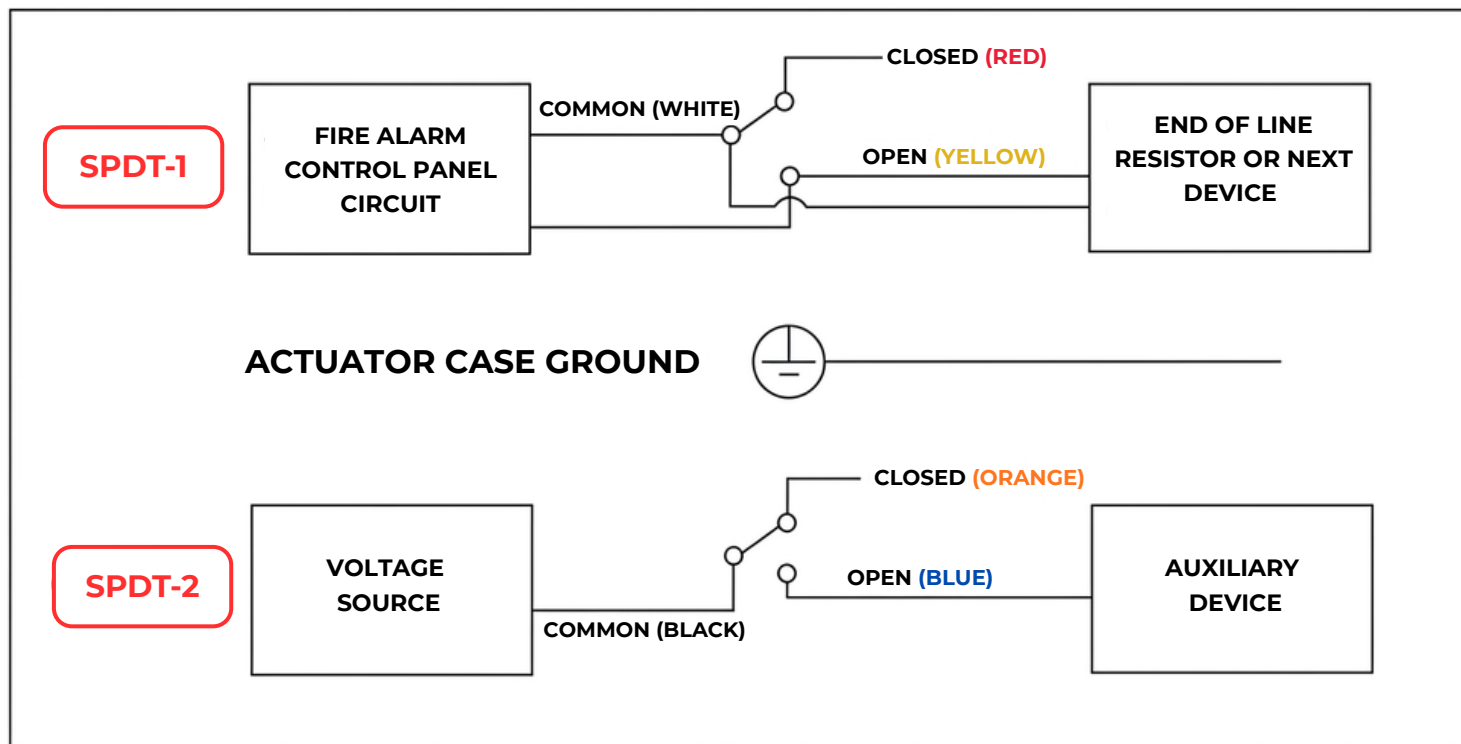


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Switch Installation

The factory has installed two SPDT switches to monitor the valve's open and closed positions. Within two turns of the handwheel from the fully open position, the switch will activate to indicate that the valve is no longer fully open.



When the valve is fully open:

- Switch 1 (SPDT-1): Connected to the supervisory circuit of the alarm control panel.
- Switch 2 (SPDT-2): Auxiliary switch intended for connection to a local device.

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