

Series 765 and 705 FireLock™ Butterfly Valves with Weatherproof Actuator

VdS Approval Number (Series 765): G4090011

VdS Approval Number (Series 705): G410001

IMPORTANT INSTALLATION INFORMATION

WARNING



- Read and understand all instructions before attempting to install any Victaulic products.
- Always verify that the piping system has been completely depressurized and drained immediately prior to installation, removal, adjustment, or maintenance of any Victaulic products.

- Confirm that any equipment, branch lines, or sections of piping that may have been isolated for/during testing or due to valve closures/positioning are identified, depressurized, and drained immediately prior to installation, removal, adjustment, or maintenance of any Victaulic products.
- Wear safety glasses, hardhat, and foot protection.
- When directly connecting a Victaulic End Cap to a Victaulic Butterfly Valve, use only a tapped end cap with a relief valve that can be opened to verify if the system is depressurized.
- Pressure shall be vented through the end cap's relief valve before attempting to remove the cap.

Failure to follow these instructions could result in death or serious personal injury and property damage.

- For complete Listing and Approval information, reference Victaulic product publication 10.80 (Series 765) or 10.81 (Series 705), which can be viewed/downloaded by scanning the applicable mobile QR code link to the right, or by clicking on the applicable desktop link:
<https://assets.victaulic.com/assets/uploads/literature/10.80.pdf>
<https://assets.victaulic.com/assets/uploads/literature/10.81.pdf>
- Flow performance for Series 765 and 705 Butterfly Valves satisfies UL Specification 1091 and FM Approval Standard 1112, where applicable.
- The Series 765 and 705 shall be installed in accordance with NFPA 13 and NFPA 72.
- The Series 765 and 705 are designed for ambient weather conditions. **DO NOT** use these valves in submersible or washdown services.
- The Series 765 and 705 are not designed for use with handle extensions or chain-wheel operators.
- Use ONLY grooved-end IPS carbon steel pipe to install the valve into the system. **DO NOT** use plain-end IPS pipe or grooved cast ductile iron pipe.
- **DO NOT** install a Series 765 or 705 with the disc in the fully-open position. Prior to installation, verify that no portion of the disc protrudes beyond the end of the valve body.
- To prevent a Series 765 or 705 from rotating in the system, Victaulic recommends installing the valve with at least one Victaulic rigid coupling. If two Victaulic flexible couplings are used, additional support may be required to prevent the valve from rotating. Always refer to the I-100 Field Installation Handbook for instructions on how to install the valve with the applicable couplings. The I-100 can be viewed/downloaded by scanning the mobile QR code link to the right, or by clicking on this desktop link: <https://assets.victaulic.com/assets/uploads/literature/I-100.pdf>.
- A weatherproof conduit and conduit connection **SHALL** be installed on the gear operator's housing to protect internal switches from water damage. **Store the valve in a dry area prior to installation.**
- Plug all unused threaded outlet ports with pipe plugs that are sized appropriately and rated for the working pressure of the valve. Verify that thread sealing tape or compound is used on the plugs.
- Per FM 1112 3.5.2, "All replacement parts must be obtained from the manufacturer to assure proper operation of the valve, and to maintain approval of the device."



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10.80

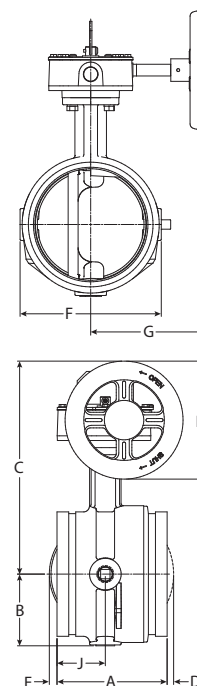


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DIMENSIONS

Nominal Size inches DN	Actual Pipe Outside Diameter inches/mm	Dimensions – inches/millimeters									Aprx. Wgt. Each lbs/kg
		A	B	C	D	E	F	G	H	J	
2 DN50	2.375 60.3	4.25 108	2.28 58	6.41 163	—	—	4.00 102	4.22 107	4.50 114	2.12 54	9.5 4.3
2½	2.875 73.0	3.77 96	2.28 58	7.54 192	—	—	4.00 102	4.22 107	4.50 114	1.77 45	9.4 4.2
DN65	3.000 76.1	3.77 96	2.28 58	7.54 192	—	—	4.00 102	4.22 107	4.50 114	1.77 45	9.4 4.2
3 DN80	3.500 88.9	3.77 96	2.53 64.8	7.79 198	—	—	4.50 114	4.22 107	4.50 114	1.77 45	10.2 4.6
	4.250 108.0	4.63 118	2.88 73.8	8.81 224	—	—	5.50 140	4.22 107	4.50 114	2.20 56	13.8 6.2
4 DN100	4.500 114.3	4.63 118	2.88 73.8	8.81 224	—	—	5.50 140	4.22 107	4.50 114	2.20 56	13.8 6.2
	5.250 133.0	5.88 149	3.35 85.8	10.88 276	—	—	6.56 167	6.19 157	6.30 160	2.58 66	23.4 10.6
DN125	5.500 139.7	5.88 149	3.35 85.8	10.88 276	—	—	6.56 167	6.19 157	6.30 160	2.58 66	23.4 10.6
5	5.563 141.3	5.88 149	3.35 85.8	10.88 276	—	—	6.56 167	6.19 157	6.30 160	2.58 66	23.4 10.6
	6.250 159.0	5.88 149	3.84 98	11.38 289	—	0.41 10	7.52 191	6.19 157	6.30 160	2.58 66	26.5 12.0
	6.500 165.1	5.88 149	3.84 98	11.38 289	—	0.41 10	7.52 191	6.19 157	6.30 160	2.58 66	26.5 12.0
6 DN150	6.625 168.3	5.88 149	3.84 98	11.38 289	—	0.41 10	7.52 191	6.19 157	6.30 160	2.58 66	26.5 12.0
8 DN200	8.625 219.1	5.33 135	5.07 129	12.63 321	0.80 20	1.47 37	10.00 254	6.19 157	8.10 206	2.33 59	41.0 18.5
10 DN250	10.750 273.0	6.40 163	6.37 162	15.64 397	1.41 36	1.81 46	12.25 311	8.10 206	11.81 300	-	80.7 36.6
12 DN300	12.750 323.9	6.50 165	7.36 187	16.64 423	2.30 58	2.80 71	14.25 362	8.10 206	11.81 300	-	96.7 43.9



Series 765 and 705 FireLock™ Butterfly Valves with Weatherproof Actuator

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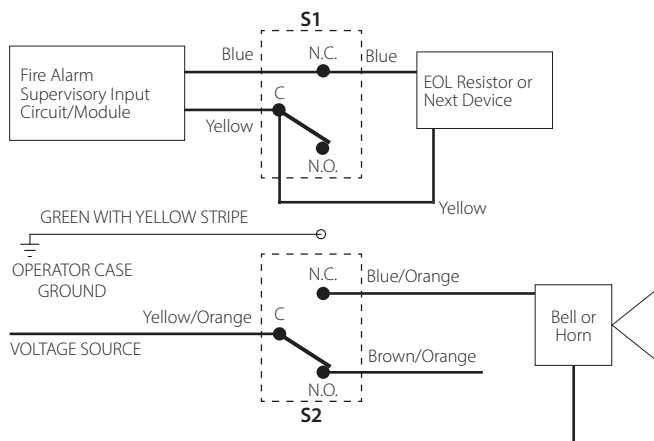
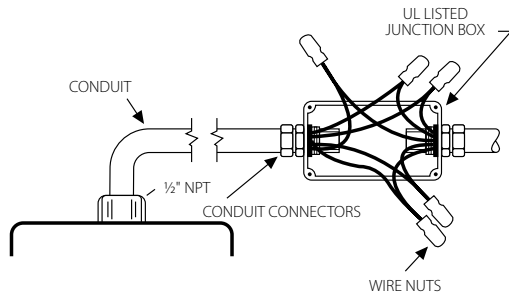
SWITCH AND WIRING

- The supervisory switch contains two single-pole, double-throw, pre-wired switches.
- Switches are rated:
10 amps @ 125 or 250 VAC/60 Hz
0.50 amps @ 125 VDC
0.25 amps @ 250 VDC
- Switches only supervise the valve in the "fully opened" position. The valve cannot be supervised in the "closed" position.**
- One switch has two #18 insulated wires per terminal, which permit complete supervision of leads (refer to diagrams and notes on this page). The second switch has one #18 insulated wire per terminal. This double circuit provides flexibility to operate two electrical devices at separate locations, such as an indicating light and an audible alarm, in the area that the valve is installed.
- A #14 insulated ground lead (green with yellow stripe) is provided.
NOTE: The ground lead for older valve configurations may be solid green.

Switch #1 = S1 For connection to the supervisory circuit of a UL Listed alarm control panel – The switch is open when the valve is in the "fully opened" position

Switch #2 = S2 Auxiliary switch that may be connected to auxiliary devices, per the authority having jurisdiction

- | | | |
|---|----|--|
| { | S1 | Normally Closed Contact: (2) Blue
Common Contact: (2) Yellow |
| { | S2 | Normally Closed Contact: Blue with Orange Stripe
Normally Open Contact: Brown with Orange Stripe
Common Contact: Yellow with Orange Stripe |



Switch contacts shown with the valve in the "FULLY OPENED" position

Only S1 (two leads per terminal) may be connected to the fire alarm control panel.

Connection of supervisory and auxiliary switches shall be in accordance with applicable sections of NFPA 72 and NFPA 70 (NEC).

GEAR OPERATOR REPLACEMENT

⚠ DANGER

- De-energize the electrical system and disconnect the wiring before attempting to replace the gear operator.
- Use only Victaulic replacement parts.

Failure to follow these instructions could result death or serious personal injury and product failure.

NOTICE

- Prior to removal, note the current orientation of the gear operator on the valve body. The new gear operator shall be installed on the valve body in the same orientation.**

- For Series 765 and 705 gear operator replacement instructions, reference the I-BFV.KIT, which can be viewed/downloaded by scanning the mobile QR code link to the right, or by clicking on this desktop link: https://assets.victaulic.com/assets/uploads/literature/I-BFV_KIT.pdf.



For complete contact information, visit victaulic.com

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