Series 728 FireLock™ Ball Valve

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 Ball 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.**

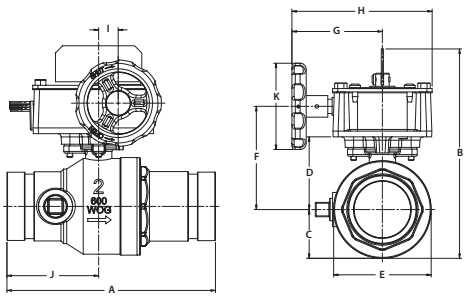
Failure to follow these instructions could result in death or serious personal injury and property damage.

- For complete Listing and Approval information, reference Victaulic product publication 10.17, 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/10.17.pdf.
- Flow performance for Series 728 Ball Valves satisfies UL Specification 1091 and FM Approval Standard 1112.
- The Series 728 shall be installed in accordance with NFPA 13 and NFPA 72.
- The Series 728 is designed for ambient weather conditions. **DO NOT** use this valve in submersible or washdown services.
- The Series 728 is designed for open/closed services only and SHALL NOT be used for throttling services.
- The Series 728 is not designed for use with handle extensions or chain-wheel operators.
- For a grooved x grooved Series 728, 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.
- For threaded x threaded Series 728 Ball Valves, follow standard threading practices to install the valve into the system.
- To prevent a grooved x grooved Series 728 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.**
- **The NPT supply-side tap of the Series 728 Ball Valve SHALL BE UPSTREAM (away from the fire protection valve) when supplying pressure to the charge line of Victaulic FireLock™ fire protection valves. NOTE: When using the NPT tap to supply pressure to fire protection valves, as stated, the Series 728 Ball Valve shall be installed with the flow direction arrow on the body pointing in the correct direction of flow. If the NPT tap is not being used, the Series 728 Ball Valve can be installed with the flow direction arrow on the body pointing in either direction.**
- 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."**

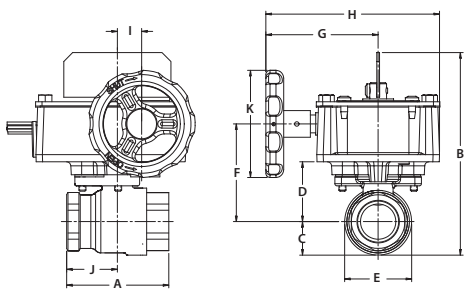
DIMENSIONS

Nominal Size inches/DN	Dimensions – inches/millimeters											Aprx. Wgt. Each lbs/kg
	A	B	C	D	E	F	G	H	I	J	K	
1 Thd. x Thd. DN25 Thd. x Thd.	2.84 72	4.74 120	0.91 23	1.67 42	1.82 46	2.40 61	3.15 80	4.86 123	0.68 17	1.42 36	3.00 76	5.1 2.3
1¼ Thd. x Thd. DN32 Thd. x Thd.	3.30 84	4.95 126	1.10 28	1.88 48	2.20 56	2.61 66	3.15 80	4.86 123	0.68 17	1.65 42	3.00 76	5.8 2.6
1½ Thd. x Thd. DN40 Thd. x Thd.	3.66 93	5.13 130	1.29 33	2.06 52	2.58 66	2.79 71	3.15 80	4.86 123	0.68 17	1.83 47	3.00 76	6.6 3.0
2 Thd. x Thd. DN50 Thd. x Thd.	4.32 110	5.49 140	1.69 43	2.42 62	3.38 86	3.15 80	3.15 80	4.86 123	0.68 17	2.16 55	3.00 76	8.5 3.9
1¼ Grv. x Grv. DN32 Grv. x Grv.	7.25 184	4.95 126	1.10 28	1.87 48	2.20 56	2.61 66	3.15 80	4.86 123	0.68 17	3.19 81	3.00 76	7.5 3.4
1½ Grv. x Grv.* DN40 Grv. x Grv.*	7.25 184	5.17 131	1.29 33	2.10 53	2.58 66	2.83 72	3.15 80	4.86 123	0.68 17	3.19 81	3.00 76	8.5 3.9
2 Grv. x Grv.* DN50 Grv. x Grv.*	7.25 184	5.47 139	1.69 43	2.40 61	3.38 86	3.13 80	3.15 80	4.86 123	0.68 17	3.19 81	3.00 76	10.5 4.8

* The NPT tap is available only on the 1½ - 2-inch/DN40 - DN50 grooved x grooved versions.



GROOVED X GROOVED



THREADED X THREADED

Series 728 FireLock™ Ball Valve

SWITCH AND WIRING

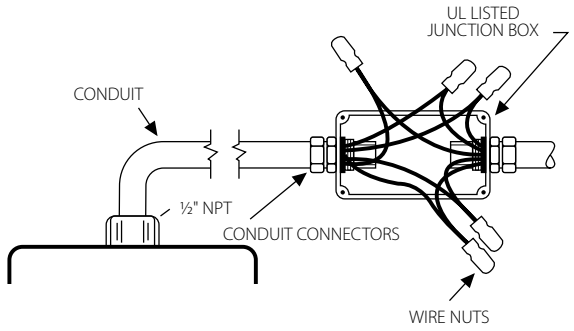
- The supervisory switch contains two single-pole, double-throw, pre-wired switches.
- Switches are rated:
  10 amps @ 125 or 250 VAC/60 Hz
  0.50 amps @ 125 VDC
  0.25 amps @ 250 VDC
- **Switches only supervise the valve in the "fully opened" position. The valve cannot be supervised in the "closed" 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.

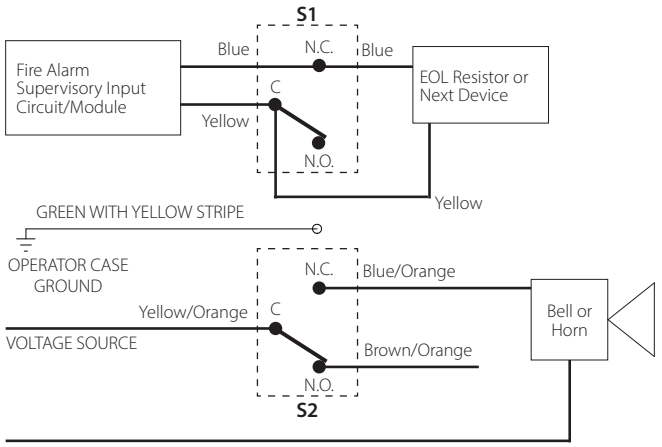
  Switch #1 = S1 For connection to the supervisory circuit of a UL Listed alarm control panel – The switch is open when the valve is in the "fully opened" position

  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

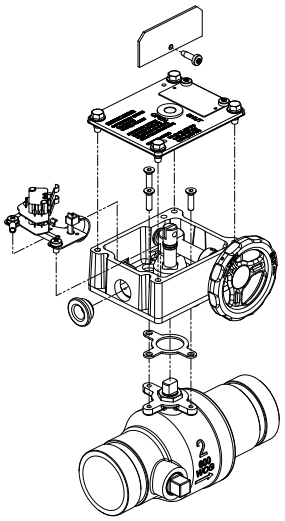
⚠ DANGER

- **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.**



1. De-energize electrical system and disconnect wiring before attempting to replace a Series 728 Ball Valve's gear operator.
2. Remove T25 tamper-resistant screw that retains indicator flag to gear operator's stem adapter. Remove indicator flag.
3. Remove four cover plate screws that attach cover plate to gear operator's housing. Remove cover plate.
4. Remove two screws that attach switch assembly to gear operator's housing. Remove switch assembly.
5. Remove three mounting screws that attach existing gear operator's housing to valve. Remove gear operator's housing.
6. Replace gasket between valve and gear operator's housing with new gasket provided in kit.
7. If installed, remove cover plate and switch assembly from new gear operator's housing.
8. Verify that the position of new gear operator matches that of valve.
9. Install new gear operator onto valve. Tighten three mounting screws to 25 inch-lbs/3 N•m (±2.5 inch-lbs/0.3 N•m).
10. Install new switch assembly into gear operator's housing. Verify that the switch wires are guided through the tapped hole in the side of the gear operator's housing prior to aligning the switch plate. Failure to do so may damage the wires and cause the switch circuit to malfunction. Care shall be taken to avoid damage to the levers on the switches while aligning the switch plate. Tighten two switch plate mounting screws completely.
11. Install new cover plate onto gear operator's housing. Tighten four cover plate screws to 80 inch-lbs/9 N•m (±10 inch-lbs/1 N•m).
12. Install indicator flag to gear operator's stem adapter with T25 tamper-resistant screw.
13. Re-wire gear operator. Refer to "Switch and Wiring" section on this page.
14. Cycle valve fully opened and then fully closed. Verify proper valve and switch function.

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