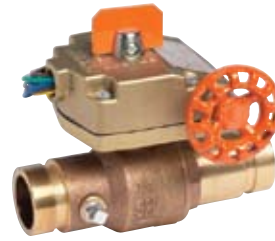
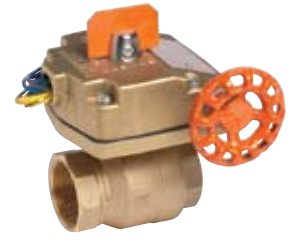


FireLock® Ball Valve

Series 728



GROOVED X GROOVED



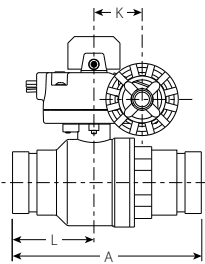
THREADED X THREADED

(THE NPT TAP IS AVAILABLE ONLY ON THE 1½ - 2-INCH GROOVED VERSIONS)

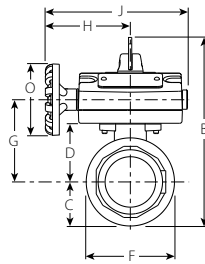
DIMENSIONS

Size	Dimensions – inches/millimeters														Aprx. Wgt. Each	
	Nominal Size inches/Actual mm	End to End "A"	Height "B"	"C"	"D"	"F"	"G"	"H"	"J"	"K"	"L"	"M"	"N"	"O"		lbs/kg
1 Thd. x Thd. 33.7 Thd. x Thd.	2.84 72.1	5.61 142.5	0.93 23.6	1.22 31.0	1.87 47.5	2.27 57.7	3.39 86.1	5.62 142.7	1.86 47.2	1.42 36.1	–	–	–	–	2.75 69.9	5.1 2.3
1¼ Thd. x Thd. 42.4 Thd. x Thd.	3.31 84.1	6.04 153.4	1.15 29.2	1.53 38.9	2.30 58.4	2.47 62.7	3.39 86.1	5.62 142.7	1.86 47.2	1.65 41.9	–	–	–	–	2.75 69.9	5.8 2.6
1½ Thd. x Thd. 48.3 Thd. x Thd.	3.66 93.0	6.42 163.1	1.35 34.3	1.71 43.4	2.66 67.6	2.66 67.6	3.39 86.1	5.62 142.7	1.86 47.2	1.83 46.5	–	–	–	–	2.75 69.9	6.6 3.0
2 Thd. x Thd. 60.3 Thd. x Thd.	4.33 110.0	7.15 181.6	1.71 43.4	2.07 52.6	3.40 86.4	3.05 77.5	3.39 86.1	5.62 142.7	1.86 47.2	2.16 54.9	–	–	–	–	2.75 69.9	8.5 3.9
1¼ Grv. x Grv. 42.4 Grv. x Grv.	7.25 184.2	6.25 158.8	1.15 29.2	1.67 42.4	2.30 58.4	2.58 65.5	3.39 86.1	5.62 142.7	1.86 47.2	3.19 81.0	–	–	–	–	2.75 69.9	7.5 3.4
1½ Grv. x Grv. * 48.3 Grv. x Grv. *	7.25 184.2	6.75 171.5	1.35 34.3	1.89 48.0	2.71 68.8	2.80 71.1	3.39 86.1	5.62 142.7	1.86 47.2	3.19 81.0	1.68 42.7	1.29 32.8	–	–	2.75 69.9	8.5 3.9
2 Grv. x Grv. * 60.3 Grv. x Grv. *	7.25 184.2	7.50 190.5	1.71 43.4	2.25 57.2	3.16 80.3	3.50 88.9	3.39 86.1	5.62 142.7	1.86 47.2	3.19 81.0	1.68 42.7	1.74 44.2	–	–	2.75 69.9	10.5 4.8

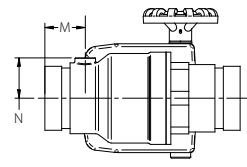
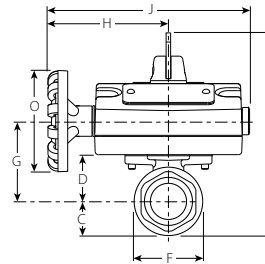
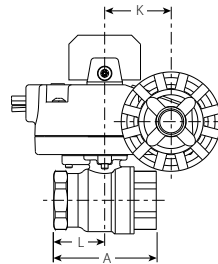
The NPT tap is available only on the 1½ - 2-inch grooved x grooved versions.



GROOVED X GROOVED



THREADED X THREADED



BOTTOM VIEW

IMPORTANT INSTALLATION INFORMATION

⚠ WARNING

- Read and understand all instructions before attempting to install any Victaulic piping products.
- Depressurize and drain the piping system before attempting to install, remove, adjust, or maintain any Victaulic piping products.
- Wear safety glasses, hardhat, and foot protection.

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

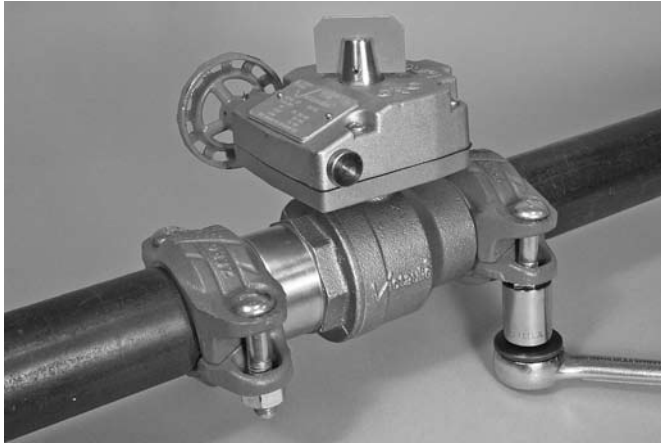
- The Series 728 Ball Valve is UL and ULC Listed and FM Approved for 365-psi/2517-kPa/25-Bar working pressure for indoor or outdoor use.
- Flow performance for Series 728 Ball Valves satisfies UL Specification 1091 and FM Approval Standard 1112.
- Installation of the Series 728 Ball Valve must be made in accordance with NFPA 13 and NFPA 72.

- Series 728 Ball Valves are designed for ambient weather conditions. DO NOT use these valves in submersible services.
- Use ONLY grooved-end, IPS carbon steel pipe with Series 728 Ball Valves. DO NOT use plain-end IPS pipe or grooved cast ductile iron pipe.
- To prevent valves from rotating in the system, Victaulic recommends installing the Series 728 Ball 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. Refer to the instructions, supplied with the couplings, for proper installation.
- Series 728 Ball Valves are not designed for use with handle extensions or chain-wheel operators.
- The NPT supply-side tap of the Series 728 Ball Valve MUST BE UPSTREAM (away from the device) when supplying pressure to the piston charge line of Series 756 and Series 758 FireLock fire protection valves or the diaphragm charge line of Series 768 and Series 769 FireLock NXT fire protection valves. NOTE: When using the NPT tap to supply pressure to fire protection valves, as stated, the Series 728 Ball Valve must be installed with the flow direction arrow on the body facing the correct way. If the NPT tap is not being used, the Series 728 Ball Valve can be installed with the flow direction arrow on the body facing either way.
- For indoor and outdoor applications, a weatherproof conduit and conduit connection MUST be installed on the housing to protect internal switches from water damage. Store the valve in a dry area prior to installation.

FireLock® Ball Valve

Series 728

INSTALLATION INSTRUCTIONS

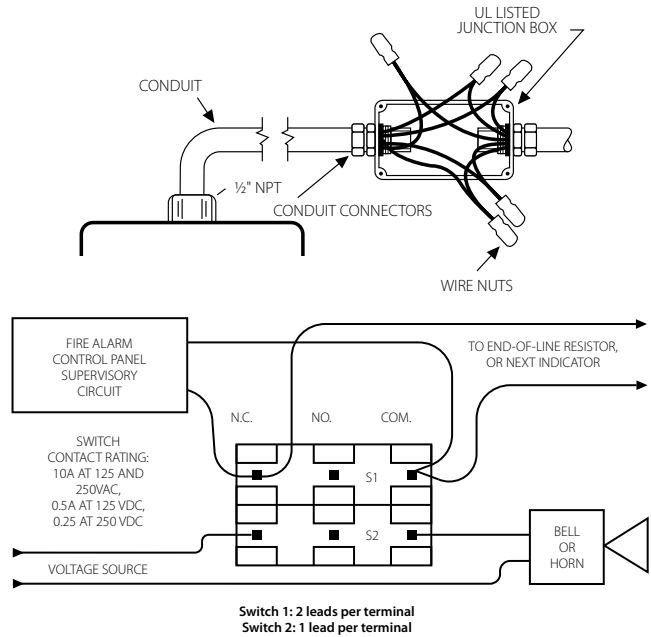


1. **FOR GROOVED-END VALVES:** Install the Series 728 Ball Valve with at least one Victaulic rigid coupling. Refer to the "Important Information" section on the previous page and the instructions, supplied with the couplings, for proper installation. **NOTE:** When installing rigid, angle-bolt-pad couplings, the nuts must be tightened evenly to obtain metal-to-metal contact with equal offsets at each bolt pad.
- 1a. **FOR THREADED-END VALVES:** Install the Series 728 Ball Valve by following standard threading practices.

SWITCH AND WIRING

1. The supervisory switch contains two single-pole, double-throw, pre-wired switches.
2. Switches are rated:
 - 10 amps @ 125 or 250 VAC/60 Hz
 - 0.50 amps @ 125 VDC
 - 0.25 amps @ 250 VDC
3. **Switches supervise the valve in the "open" position.**
4. One switch has two #18 MTW wires per terminal, which permit complete supervision of leads (refer to diagrams and notes on this page). The second switch has one #18 MTW 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.
5. A #14 MTW ground lead (green) is provided.
 - Switch #1 = S1 For connection to the supervisory circuit of a UL Listed alarm control panel
 - Switch #2 = S2 Auxiliary switch that may be connected to auxiliary devices, per the authority having jurisdiction

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



NOTE: The above diagram shows a connection between the common terminal (yellow – S1 and yellow-with-orange stripe – S2) and the normally closed terminal (blue – S1 and blue-with-orange stripe – S2). In this example, the indicator light and alarm will stay on until the valve is fully open. When the valve is fully open, the indicator light and alarm will go out. Cap off any unused wires (e.g. brown and brown with orange stripe). Only S1 (two leads per terminal) may be connected to the fire alarm control panel.

The connection of the alarm switch wiring shall be in accordance with NFPA 72 and the auxiliary switch per NFPA 70 (NEC).

FOR APPLICATIONS IN CANADA ONLY: For outdoor installations, use a standard close nipple with pipe sealer or liquid-tight connector to connect the conduit to the gear operator of the Series 728 Ball Valve.

GEAR OPERATOR REPLACEMENT

In the event that a gear operator fails, replacement of the gear operator's topworks would be required.

⚠ CAUTION

- Use **ONLY** Victaulic replacement parts. Failure to follow this instruction may cause improper valve operation, resulting in property damage.

1. Remove the four T-25 tamper-proof screws from the topworks portion of the gear operator.
2. Lift up the topworks portion of the gear operator. **NOTE:** The gasket must remain in place when re-assembling the topworks. If the gasket shows any signs of wear or damage, replace it with a new, Victaulic-supplied gasket.
3. Disconnect the ground connection and discard the old topworks portion of the gear operator.
4. Make the ground connection to the new topworks portion of the gear operator.
5. Align the new topworks portion of the gear operator with the lower portion, making sure the wiring does not become pinched.
6. Re-install the four T-25 tamper-proof screws into the topworks portion of the gear operator and tighten fully.
7. Re-wire the gear operator. Refer to the "Switch and Wiring" section.

