



# Series 764, 768 and 769

## REPLACING THE DIAPHRAGM IN SERIES 764, 768, AND 769 FIRELOCK NXT™ FIRE PROTECTION VALVES

### IMPORTANT INFORMATION


<b>⚠ WARNING</b>	
	<ul style="list-style-type: none"> <li>• Read and understand all instructions before attempting to perform maintenance on any Victaulic piping products.</li> <li>• Wear safety glasses, hardhat, and foot protection.</li> </ul> <p>Failure to follow these instructions could result in serious personal injury, property damage, and/or product failure.</p>

<b>⚠ WARNING</b>	
	<ul style="list-style-type: none"> <li>• Depressurize and drain the piping system before attempting to remove, adjust, or perform maintenance on any Victaulic piping products.</li> </ul> <p>Failure to follow this instruction could result in serious personal injury and/or property damage.</p>

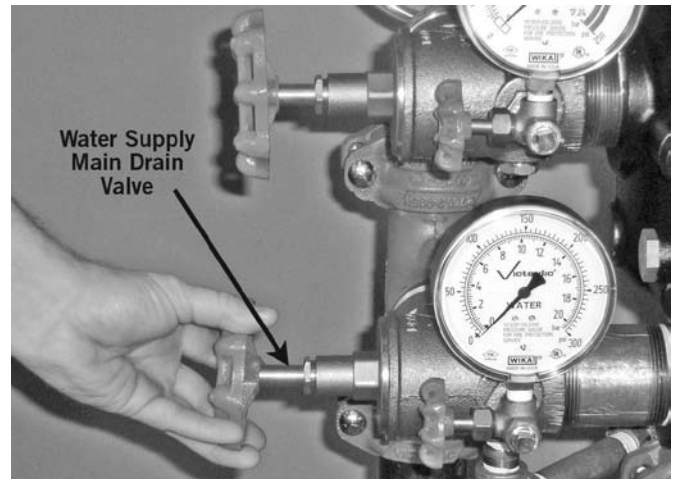


The following instructions are a guide for removing and replacing the diaphragm in Series 764, 768, and 769 FireLock NXT™ Fire Protection Valves. It is important to replace the diaphragm with a new, Victaulic-supplied diaphragm of the correct diameter to ensure proper valve operation.

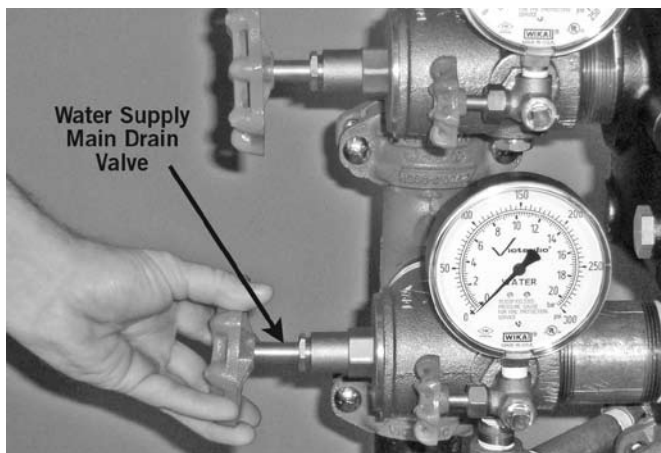
### REMOVING THE SYSTEM FROM SERVICE

<b>⚠ CAUTION</b>	
	<ul style="list-style-type: none"> <li>• Any activities that require taking the valve out of service may eliminate the fire protection provided.</li> <li>• Before servicing or testing the system, notify the authority having jurisdiction.</li> <li>• Consideration of a fire patrol should be given in the affected areas.</li> </ul> <p>Failure to follow these instructions could result in serious personal injury and/or property damage.</p>

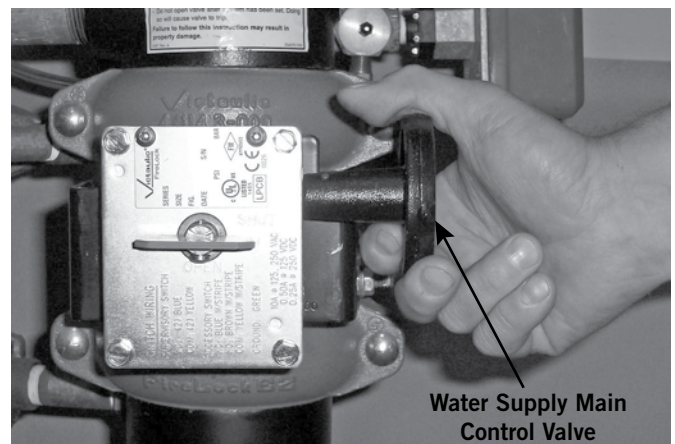
1. Notify the authority having jurisdiction, remote station alarm monitors, and those in the affected area that the system is being taken out of service.



3. Close the water supply main drain valve.



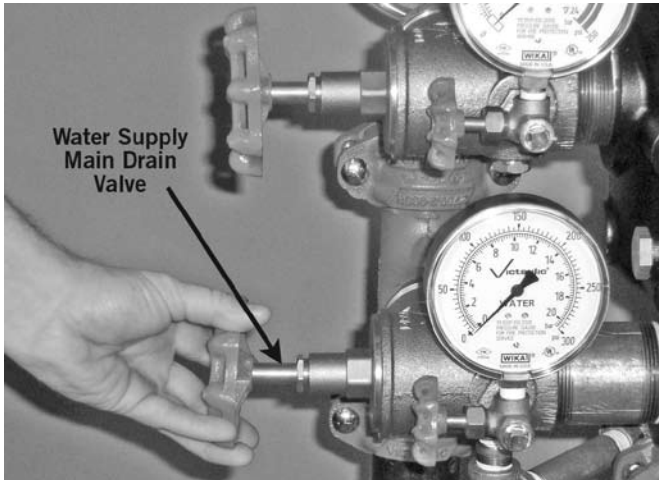
2. Open the water supply main drain valve fully to flush the water supply of any contaminants.



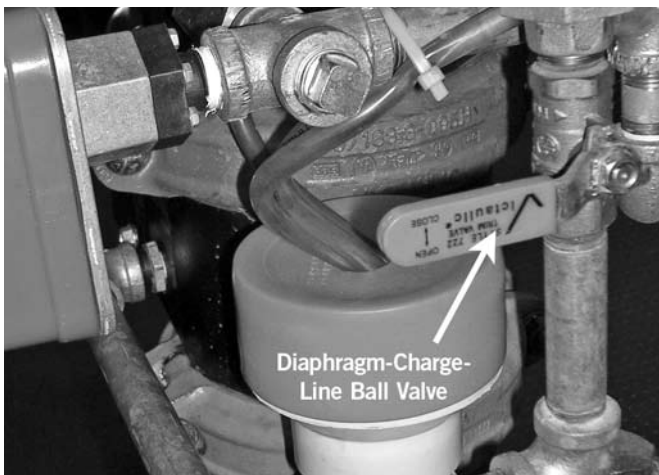
4. Close the water supply main control valve to take the system out of service.

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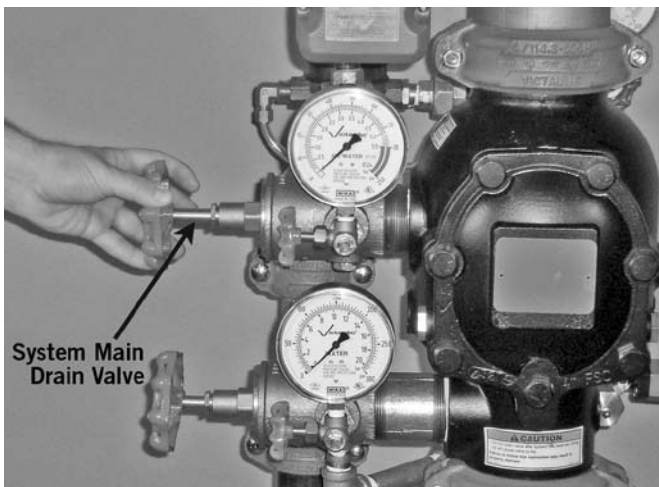
### REPLACING THE DIAPHRAGM IN SERIES 764, 768, AND 769 FIRELOCK NXT™ FIRE PROTECTION VALVES



5. Open the water supply main drain valve.
6. Confirm that water is not flowing from the water supply main drain valve.

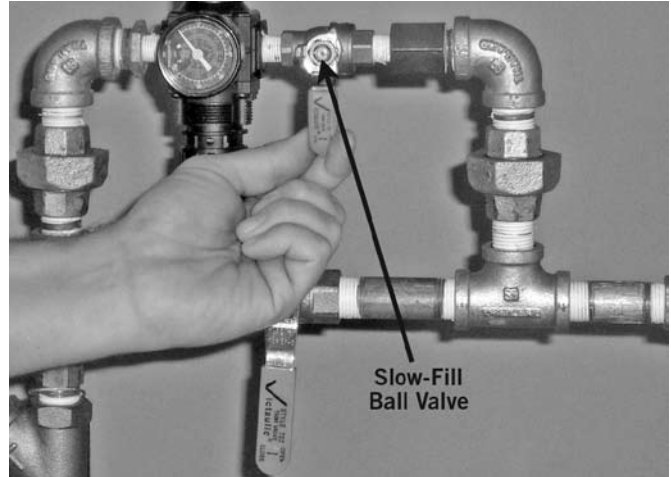


7. Close the diaphragm-charge-line ball valve.



8. Open the system main drain valve to drain any water that has accumulated and to release system air pressure.

**NOTE:** If the system has operated, open the remote system test valve (inspector's test connection) and any auxiliary drain valves.



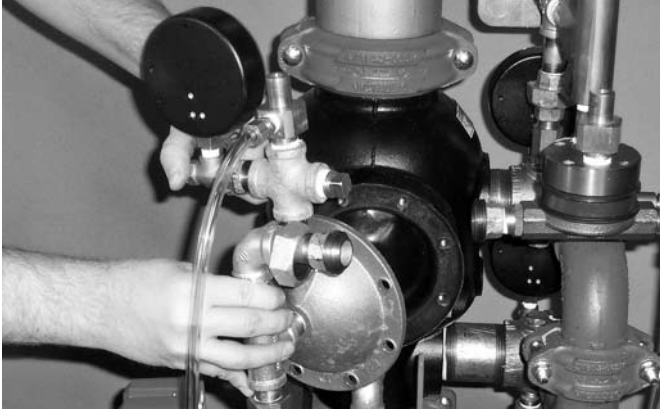
9. Close the slow-fill ball valve on the Air Maintenance Trim Assembly (AMTA).
10. **PUSH DOWN ON THE AUTO DRAIN SCREW TO REMOVE PRESSURE IN THE DIAPHRAGM CHARGE LINE.**

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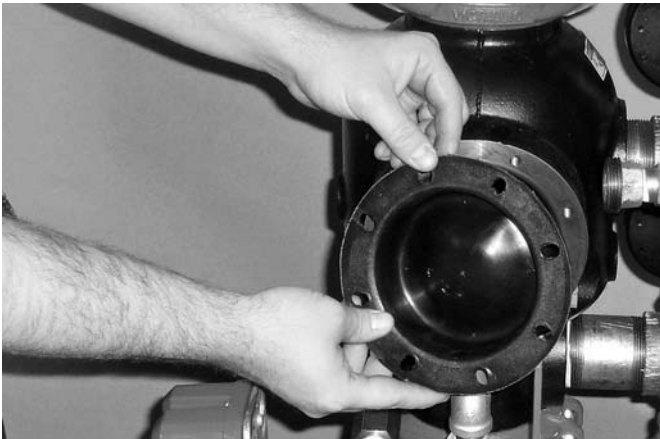
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#### REMOVING AND REPLACING THE DIAPHRAGM ASSEMBLY

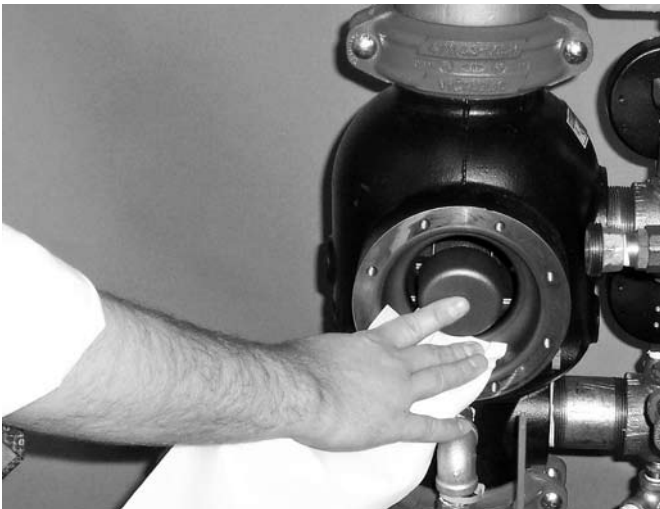
1. Break the unions that connect the trim to the diaphragm cover. Refer to the applicable trim drawing for details.



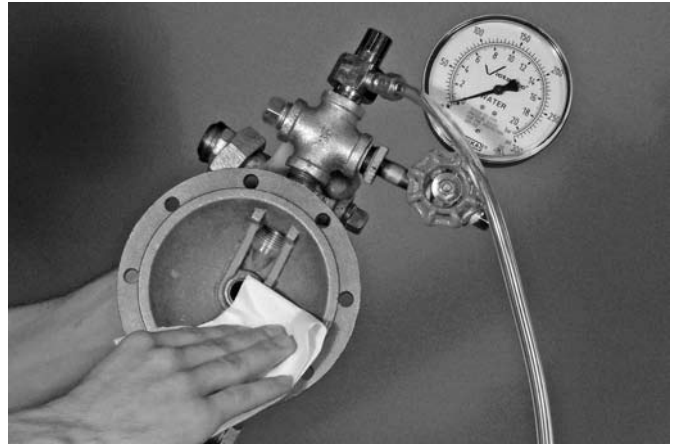
2. Remove the cap screws from the diaphragm cover, and pull the diaphragm cover/trim off the valve.



3. Remove the diaphragm from the valve body.



4. Clean the back of the valve body to remove any debris that may interfere with proper diaphragm seating.



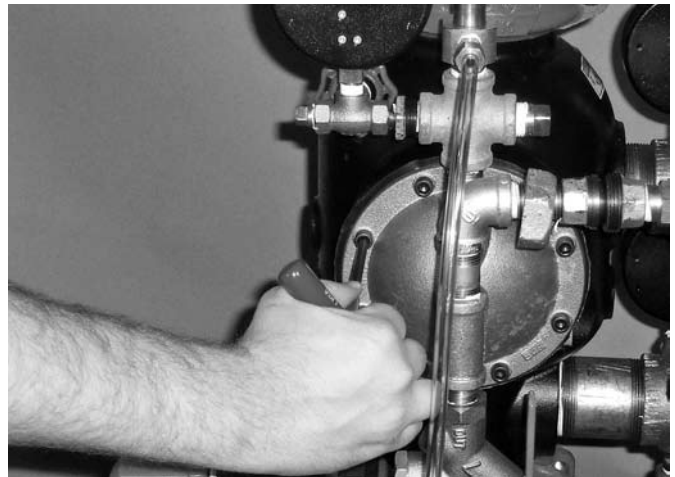
- 4a. Clean the inside of the diaphragm cover to remove any foreign material.

#### **CAUTION**

- Use caution when installing a new diaphragm into the valve body.

Failure to follow this instruction could cause damage to the diaphragm, resulting in improper valve operation and valve leakage.

5. Replace the diaphragm with a new, Victaulic-supplied diaphragm. Align the holes in the diaphragm with the holes in the valve body. Be careful not to damage the diaphragm during installation.



6. Align the holes of the diaphragm cover with the holes in the diaphragm/valve body. Tighten all cap screws into the diaphragm cover/valve body.
7. Re-attach the trim at the unions that were loosened in step 1. Refer to the applicable trim drawing for details. **MAKE SURE ALL UNIONS THAT WERE LOOSEMED TO PERMIT ACCESS TO THE DIAPHRAGM COVER ARE RE-TIGHTENED BEFORE ATTEMPTING TO PLACE THE SYSTEM BACK IN SERVICE.**
8. Place the system back in service by following the "Placing the System in Service" section in the applicable installation, maintenance, and testing manual for the valve configuration.



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For complete contact information, visit [www.victaulic.com](http://www.victaulic.com)

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