






Series 751 FireLock™ European Alarm Check Valve Stations

HANG THESE INSTRUCTIONS ON THE INSTALLED VALVE FOR EASY FUTURE REFERENCE



⚠ WARNING

- Read and understand all instructions before attempting to install, remove, adjust, or perform maintenance on any Victaulic piping products.
- Depressurize and drain piping systems before attempting to install, remove, adjust, or perform maintenance on any Victaulic piping products.
- Wear safety glasses, hardhat, and foot protection.
- Save this installation, maintenance, and testing manual for future reference.

Failure to follow instructions and warnings could cause system failure, resulting in death or serious personal injury and property damage.

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HAZARD IDENTIFICATION



Definitions for identifying the various hazard levels are provided below. When you see this symbol, be alert to the possibility of personal injury. Carefully read and fully understand the message that follows.

WARNING

- The use of the word “WARNING” identifies the presence of hazards or unsafe practices that could result in death or serious personal injury if instructions, including recommended precautions, are not followed.

CAUTION

- The use of the word “CAUTION” identifies possible hazards or unsafe practices that could result in personal injury and product or property damage if instructions, including recommended precautions, are not followed.

NOTICE

- The use of the word “NOTICE” identifies special instructions that are important but not related to hazards.

INSTALLER SAFETY INSTRUCTIONS

⚠ WARNING



- An experienced, trained installer must install this product in accordance with all instructions. These instructions contain important information.

- Depressurize and drain the piping system before attempting to install, remove, adjust, or maintain any Victaulic piping products.



Failure to follow these instructions can cause product failure, resulting in serious personal injury and/or property damage.

GENERAL

1. **Read and understand all instructions and refer to the trim diagrams before proceeding with the installation, maintenance, and testing of this Victaulic Series 751 FireLock European Alarm Check Valve Station.**
2. **Inspect the shipment.** Make sure all components are included in the shipment and that all necessary tools are available for installation.
3. **Use only recommended accessories.** Accessories and equipment that are not approved for use with this alarm check valve may cause improper system operation.
4. **Wear safety glasses, hardhat, foot protection, and hearing protection.** Wear hearing protection if you are exposed to long periods of noisy job-site operations.
5. **Prevent back injury.** Larger and pre-trimmed valves are heavy and require more than one person or mechanical lifting equipment to position and install the assembly. Always practice proper lifting techniques.
6. **Avoid using electrically powered tools in dangerous environments.** When using electrically powered tools for installation, make sure the area is moisture-free. Keep the work area well lit, and allow enough space to accommodate proper installation of the valve, trim, and accessories.
7. **Watch for pinch points.** Do not place fingers under the valve body where they could be pinched by the weight of the valve. Use caution around spring-loaded components (i.e. clapper assembly).
8. **Keep work areas clean.** Cluttered areas, benches, and slippery floors can create hazardous working conditions.
9. **PROTECT THE SYSTEM FROM FREEZING CONDITIONS. THE VALVE AND SUPPLY PIPING MUST BE PROTECTED FROM FREEZING TEMPERATURES AND MECHANICAL DAMAGE.**

MAINTENANCE AND TESTING

1. **Notify the authority having jurisdiction.** Always notify the authority having jurisdiction before performing any maintenance that eliminates the fire protection provided by the system.
2. **Follow national requirements and/or requirements of the local authority having jurisdiction for system testing and inspection schedules.** The building owner or their representative is responsible for inspecting the system in accordance with current national requirements or in accordance with the requirements of the local authority having jurisdiction (whichever is more stringent).
3. **Depressurize and drain the system completely before performing any maintenance.** Water under pressure can cause the cover plate to blow off during removal if the system is not depressurized and drained completely.
4. **Protect the valve from freezing temperatures, foreign matter, and corrosive atmospheres.** Any condition that might degrade the system or affect system performance must be avoided.

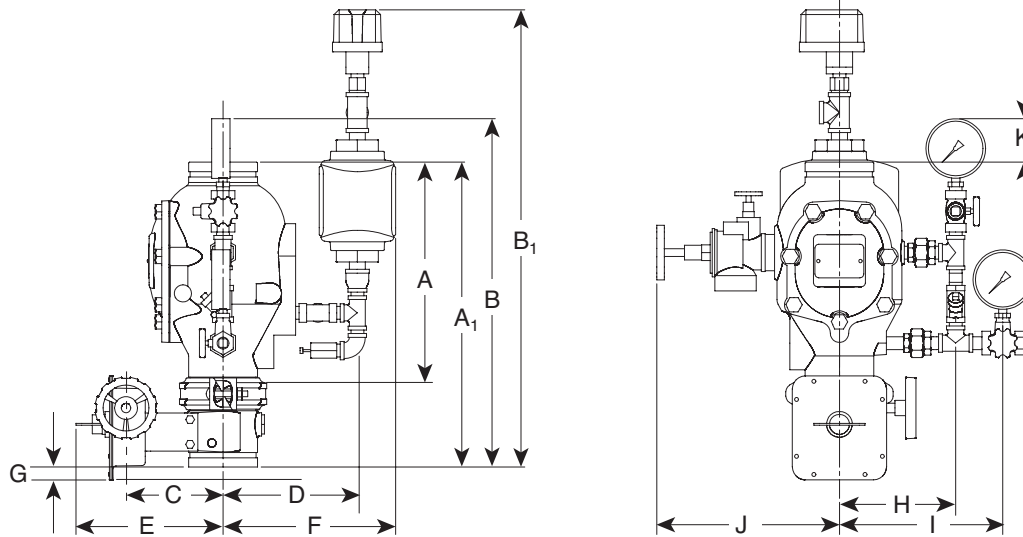
INTRODUCTION

The following instructions are a guide for proper installation of Victaulic Series 751 FireLock European Alarm Check Valve Stations. These instructions involve pipe that is prepared and grooved properly in accordance with Victaulic specifications.

NOTICE

- Drawings and/or pictures in this manual may be exaggerated for clarity.
- This product and this installation, maintenance, and testing manual contain trademarks, copyrights, and/or patented features that are the exclusive property of Victaulic.

TRIM DIMENSIONS



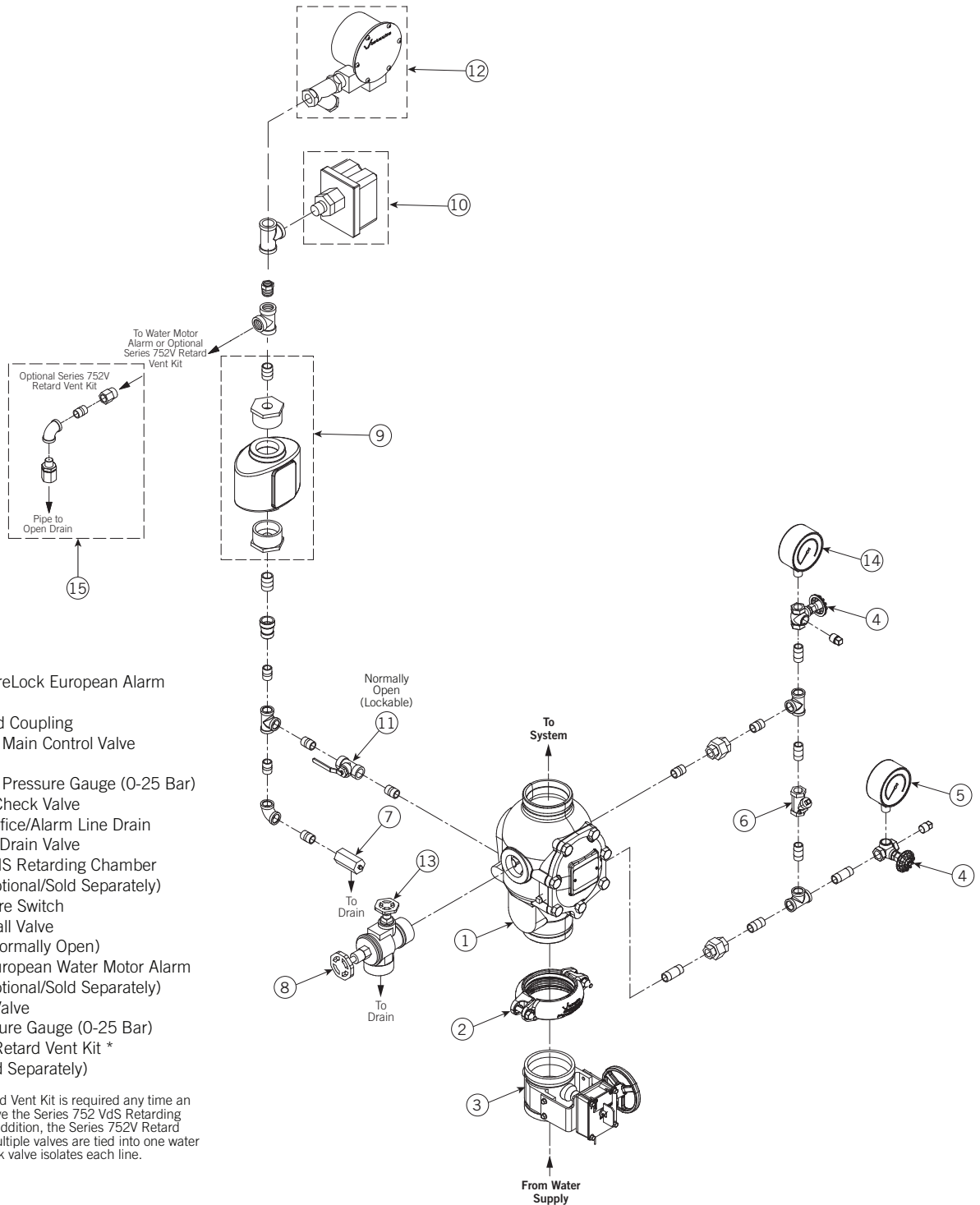
Size	Dimensions – centimeters													Approx. Weight Each kilograms
	A*	A1	B	B1	C	D	E	F	G	H	I	J	K	
DN80	32.03	42.24	—	71.86	14.48	21.21	22.11	27.56	4.67	18.64	26.93	27.97	—	24.0
DN100	38.18	50.66	57.88	75.97	16.13	22.33	24.45	26.68	2.14	19.33	27.14	30.37	7.22	54.0
DN150	40.64	56.32	64.44	79.38	18.60	25.77	26.93	31.79	—	20.30	28.11	31.08	8.12	69.0
DN200	44.45	58.65	—	85.80	16.66	28.34	26.81	34.39	—	23.85	30.87	34.56	—	83.0

* The "A" dimension is the measurement from the top of the valve body to the bottom of the valve body (takeout dimension).

NOTE: Overall height "B" is the greatest height if the optional Series 752 VdS Retard Chamber Assembly is not installed.

EXPLODED VIEW DRAWING – TRIM COMPONENTS

SERIES 751 FIRELOCK EUROPEAN ALARM CHECK VALVE STATIONS (OPTIONAL ACCESSORIES ALSO SHOWN)

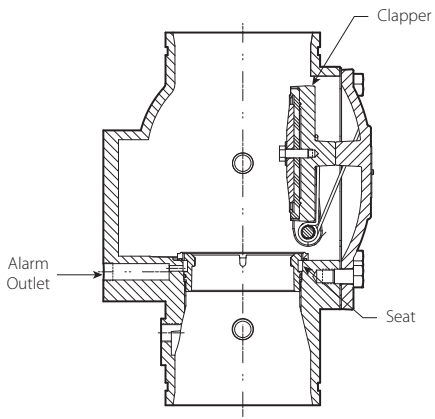


Bill of Materials

- 1 Series 751 FireLock European Alarm Check Valve
- 2 FireLock Rigid Coupling
- 3 Water Supply Main Control Valve
- 4 Gauge Valve
- 5 Water Supply Pressure Gauge (0-25 Bar)
- 6 Drain Swing Check Valve
- 7 Restricted Orifice/Alarm Line Drain
- 8 System Main Drain Valve
- 9 Series 752 VdS Retarding Chamber Assembly (Optional/Sold Separately)
- 10 Alarm Pressure Switch
- 11 Alarm Line Ball Valve (Lockable - Normally Open)
- 12 Series 760 European Water Motor Alarm Assembly (Optional/Sold Separately)
- 13 System Test Valve
- 14 System Pressure Gauge (0-25 Bar)
- 15 Series 752V Retard Vent Kit * (Optional/Sold Separately)

* The Series 752V Retard Vent Kit is required any time an air break is needed above the Series 752 VdS Retarding Chamber Assembly. In addition, the Series 752V Retard Vent Kit is required if multiple valves are tied into one water motor alarm and a check valve isolates each line.

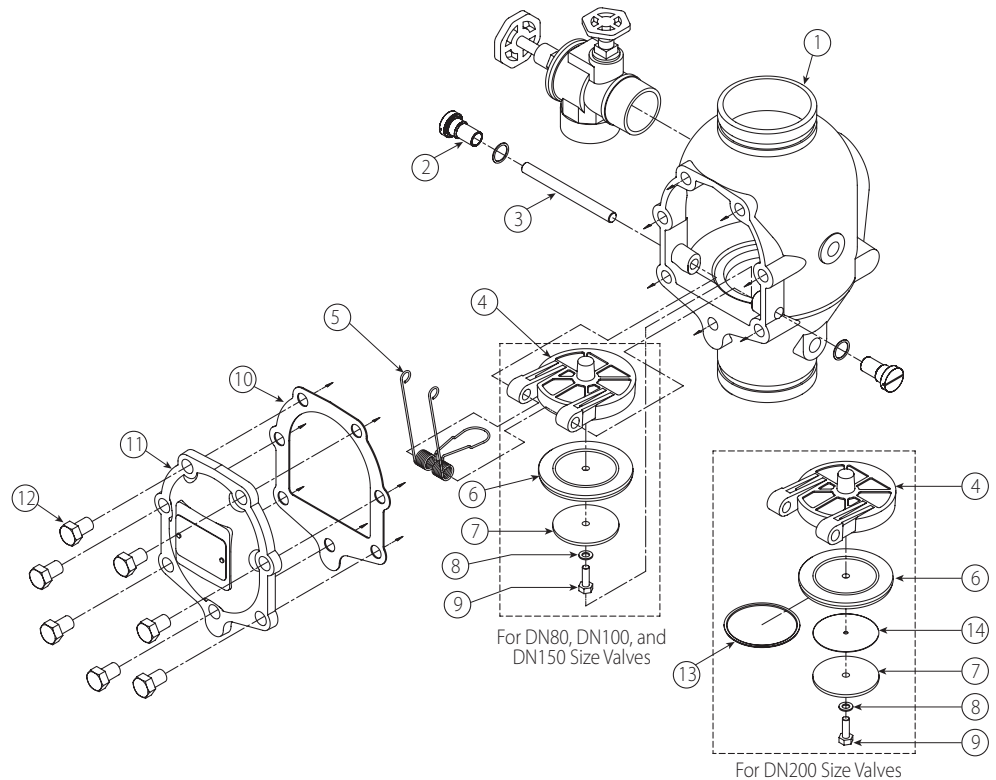
EXPLODED VIEW DRAWING – INTERNAL VALVE COMPONENTS



Exaggerated for clarity

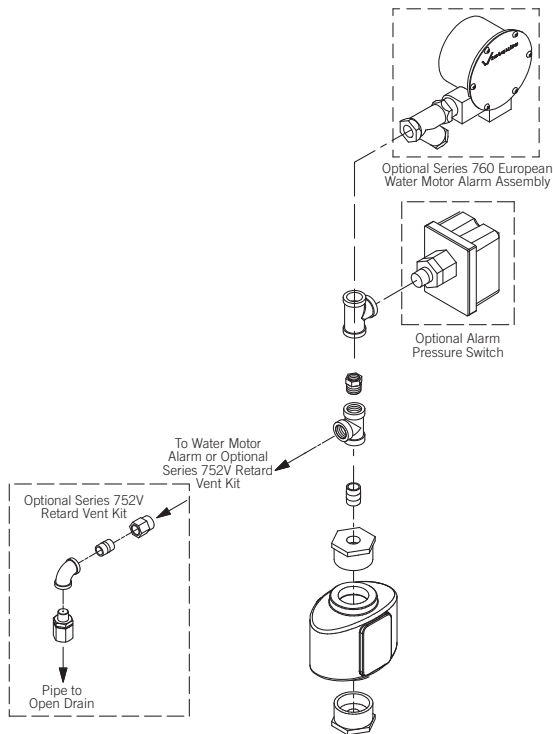
Bill of Materials

- | | |
|---|------------------------------|
| 1 Valve Body | 8 Bolt Seal |
| 2 Clapper Shaft Retaining Bushing (Qty. 2) | 9 Seal-Assembly Bolt |
| 3 Clapper Shaft | 10 Cover Plate Gasket |
| 4 Clapper | 11 Cover Plate |
| 5 Clapper Spring | 12 Cover Plate Bolts |
| 6 Clapper Seal | 13 Seal Ring |
| 7 Seal Retaining Ring | 14 Seal Washer |



IMPORTANT INSTALLATION INFORMATION

- For proper operation and approval, the Series 751 FireLock Alarm Check Valve must be installed in accordance with the specific trim diagrams included with the shipment.
- Before installing the Series 751 FireLock Alarm Check Valve, flush the water supply piping thoroughly to remove all foreign material.
- Series 751 FireLock Alarm Check Valves **MUST NOT** be located in an area where the valve can be exposed to freezing temperatures. In addition, the Series 751 FireLock Alarm Check Valve **MUST NOT** be located in an area where physical damage may occur.
- It is the system designer's responsibility to confirm material compatibility of the Series 751 FireLock Alarm Check Valve, trim, and associated accessories when a corrosive environment or contaminated water is present.
- SERIES 751 FIRELOCK ALARM CHECK VALVES MUST BE INSTALLED ONLY IN THE VERTICAL POSITION WITH THE ARROW ON THE BODY POINTING UPWARD. THE ARROW ON THE SWING CHECK VALVE IN THE BYPASS LINE MUST POINT UPWARD.**
- The Victaulic Series 752 VdS Retarding Chamber Assembly should be installed in variable pressure applications. **NOTE:** Victaulic provides specific trim drawings for installations that involve a Series 752 VdS Retarding Chamber Assembly.



- The Series 752V Retard Vent Kit is required any time an air break is needed above the Series 752 VdS Retarding Chamber Assembly. In addition, the Series 752V Retard Vent Kit is required if multiple valves are tied into one water motor alarm and a check valve isolates each line. Refer to the drawing above.
- When the Series 751 FireLock Alarm Check Valve is used with a water motor alarm, an uninterrupted alarm pressure switch is recommended in the location shown in the drawing above.

VALVE/TRIM INSTALLATION

- Make sure trim drawings match system requirements.

⚠ CAUTION	
	<ul style="list-style-type: none"> Make sure the foam spacer is removed from inside the valve body before attempting to install the valve. <p>Failure to follow this instruction could cause improper valve operation, resulting in personal injury and/or property damage.</p>

- Remove all plastic caps and foam spacers from the valve.
- Apply a small amount of pipe joint compound or PTFE thread sealant tape to the external threads of all threaded pipe connections. **DO NOT** get any tape, compound, or other foreign material into the valve body, pipe nipples, or valve openings.

⚠ CAUTION	
<ul style="list-style-type: none"> Make sure no foreign material gets into the valve body, pipe nipples, or valve openings. If using any material other than PTFE thread sealant tape, use extra caution so that no material gets into the trim. <p>Failure to follow these instructions could cause improper valve operation, resulting in personal injury and/or property damage.</p>	

- Install the valve, trim, and accessories per the trim drawing.

HYDROSTATIC TESTING

The Victaulic Series 751 European Alarm Check Valve is manufactured and listed for a maximum working pressure of 16Bar and is factory tested to 41 Bar. The station can be hydrostatically tested against the clapper at 14Bar and/or 3.5Bar above the normal water supply pressure (2-hour limited time period) for acceptance by the authority having jurisdiction.

PLACING THE SYSTEM IN SERVICE

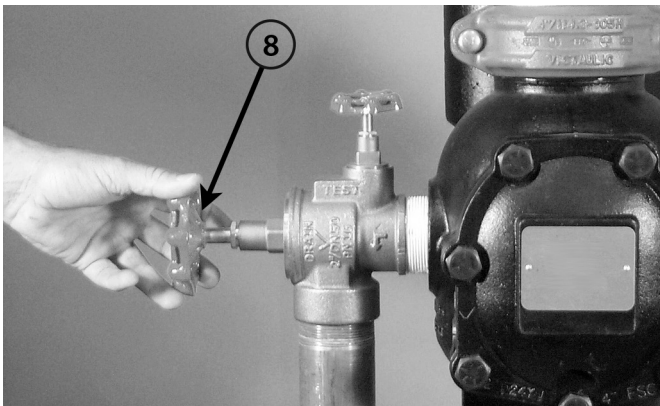
⚠ CAUTION

- The Series 751 FireLock Alarm Check Valve and supply piping must be protected from freezing temperatures and mechanical damage.
- For proper operation of alarms in a wet system, it is important to remove all air from the system. Auxiliary drains may be required to release all trapped air from the system.

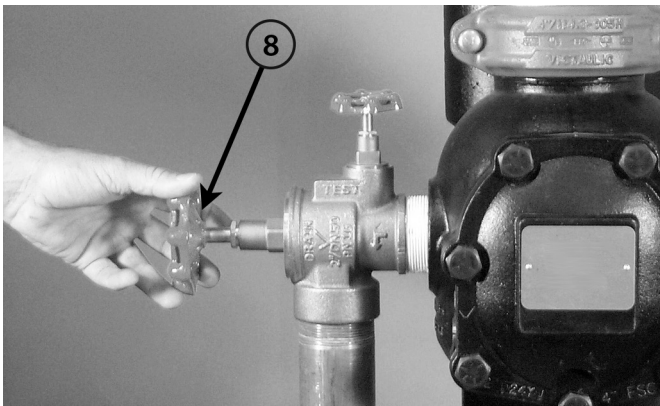
Failure to follow these instructions could cause improper valve operation, resulting in personal injury and/or property damage.

NOTICE

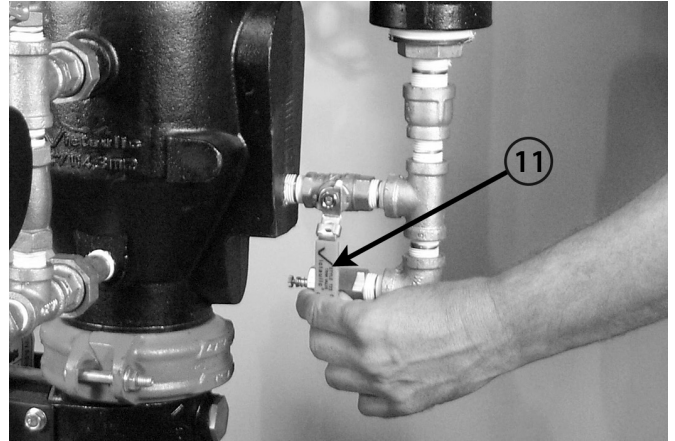
- The callouts in the following photos correspond with the "Exploded View Drawing – Trim Components" section.



1. Open the system main drain valve (8). Confirm that the system is drained.



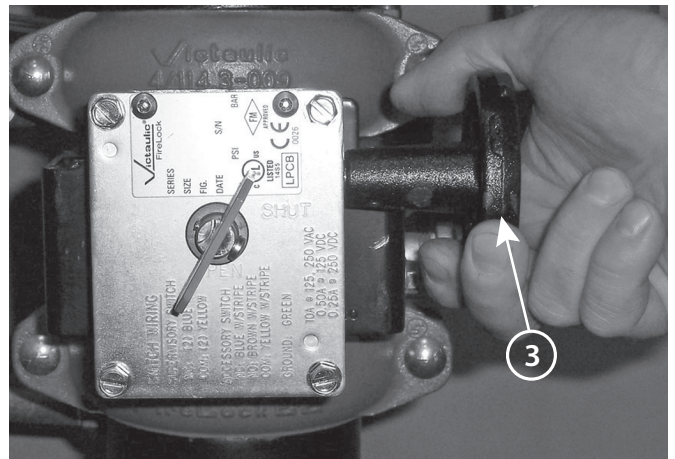
2. Close the system main drain valve (8).
3. Confirm that system drains are shut and the system is free of leaks.
- 3a. Confirm that the system has been depressurized. The gauges should indicate zero pressure.
4. Open the remote system test valve (inspector's test connection) and any auxiliary drains to remove all air from the system.



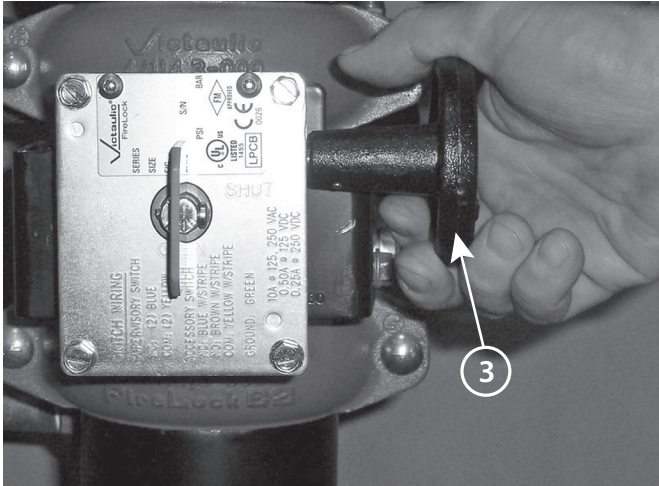
5. Close the alarm line ball valve (11) to prevent alarms from operating while the system is filling. Alarm and electrical panels (controlled by an alarm flow switch on the riser) cannot be interrupted. **NOTE:** If alarm activation is possible, notify local fire companies that the system is being serviced.

⚠ CAUTION

- Take precautions when opening the water supply main control valve because water will flow from all open system valves. Failure to follow this instruction could result in property damage.



6. Open the water supply main control valve (3) slowly.
7. Allow the system to fill with water completely. Allow water to flow from the remote system test valve (inspector's test connection) and any auxiliary drains until all trapped air is removed from the system.
8. After a steady flow of water is established and all air is released from the system, close the remote system test valve (inspector's test connection) and any auxiliary drains in the system.
9. Record the system pressures. The system pressure gauge (14) should be equal to or greater than the water supply pressure gauge (5).

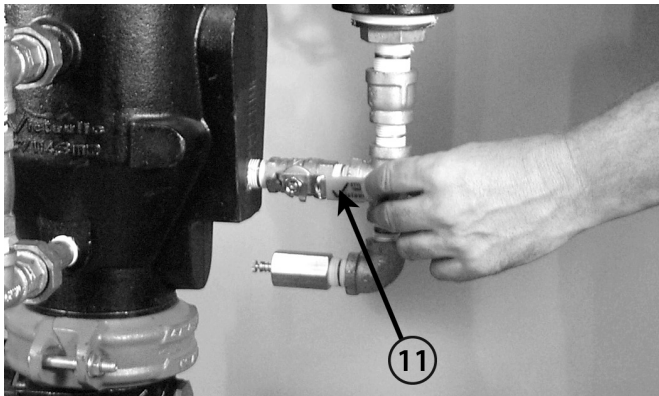


10. Open the water supply main control valve (3) fully.

CAUTION

- The alarm line ball valve must be open to allow alarms to activate.

Failure to follow this instruction will prevent alarms from activating during a fire condition, resulting in personal injury and/or property damage.



11. Open the alarm line ball valve (11). Lock the ball valve, if required.
12. Confirm that all valves are in their normal operating positions (refer to table below).

Valve	Normal Operating Position
Alarm Line Ball Valve	Open (Lockable)
Water Supply Main Control Valve	Open
System Main Drain Valve	Closed
System Test Valve	Closed

13. Notify the authority having jurisdiction, remote station alarm monitors, and those in the affected area that the system is in service.

EXTERNAL INSPECTION

WARNING

- The building owner or their representative is responsible for maintaining the fire protection system in proper operating condition.
- To ensure proper system operation, valves must be inspected in accordance with current national standards or in accordance with the requirements of the local authority having jurisdiction (whichever is more stringent). Always refer to the instructions in this manual for additional inspection and testing requirements.
- The frequency of inspections must be increased in the presence of contaminated water supplies, corrosive/scaling water supplies, and corrosive atmospheres.
- Depressurize and drain the piping system before attempting to install, remove, adjust, or maintain any Victaulic products.

Failure to follow these instructions could cause system failure, resulting in death, serious personal injury, and property damage.

NOTICE

- Any activities that require taking the valve out of service may eliminate the fire protection provided.
- Consideration of a fire patrol should be given for the affected areas.
- Before servicing or testing the system, notify the authority having jurisdiction.

WEEKLY INSPECTION

1. Perform a visual inspection on the valve and trim on a weekly basis. **NOTE:** If the alarm valve is equipped with a low-pressure alarm, monthly inspections may be sufficient. Contact the local authority having jurisdiction for specific requirements.

MONTHLY INSPECTION

1. Record the system pressure (14) and water supply pressure (5). It is normal for system water pressure to be higher than the water supply pressure due to the alarm check valve trapping pressure surges above the clapper. Confirm that the water supply pressure is within the range of normal pressures observed in the area. Significant loss of water supply pressure could indicate an adverse condition in the water supply.
2. Inspect the valve and trim for mechanical damage and corrosion. Replace any damaged or corroded parts.
3. Confirm that the alarm check valve and trim are located in an area that is not subject to freezing temperatures.
4. If the valve is installed in a variable pressure system, confirm that no excessive leakage is occurring from the restricted orifice/alarm line drain. It is normal for some leakage because pressure surges lift the clapper and allow water into the intermediate chamber.
5. Confirm that all valves are in their normal operating positions (refer to table below).

Valve	Normal Operating Position
Alarm Line Ball Valve	Open (Lockable)
Water Supply Main Control Valve	Open
System Main Drain Valve	Closed
System Test Valve	Closed

REQUIRED SYSTEM TESTS

WARNING

- The building owner or their representative is responsible for maintaining the fire protection system in proper operating condition.
- To ensure proper system operation, valves must be inspected in accordance with current national standards or in accordance with the requirements of the local authority having jurisdiction (whichever is more stringent). Always refer to the instructions in this manual for additional inspection and testing requirements.
- The frequency of inspections must be increased in the presence of contaminated water supplies, corrosive/scaling water supplies, and corrosive atmospheres.
- Depressurize and drain the piping system before attempting to install, remove, adjust, or maintain any Victaulic products.

Failure to follow these instructions could cause system failure, resulting in death, serious personal injury, and property damage.

NOTICE

- Any activities that require taking the valve out of service may eliminate the fire protection provided.
- Consideration of a fire patrol should be given for the affected areas.
- Before servicing or testing the system, notify the authority having jurisdiction.

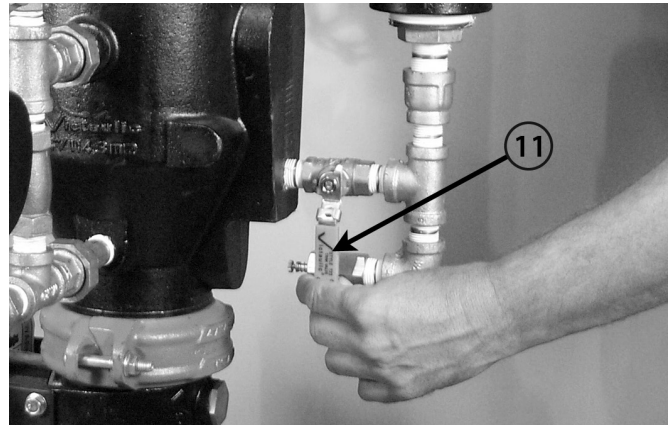
MAIN DRAIN TEST

Perform the main drain test annually or as required by national standards. The authority having jurisdiction in the area may require these tests on a more frequent basis. Verify these requirements by contacting the authority having jurisdiction in the affected area.

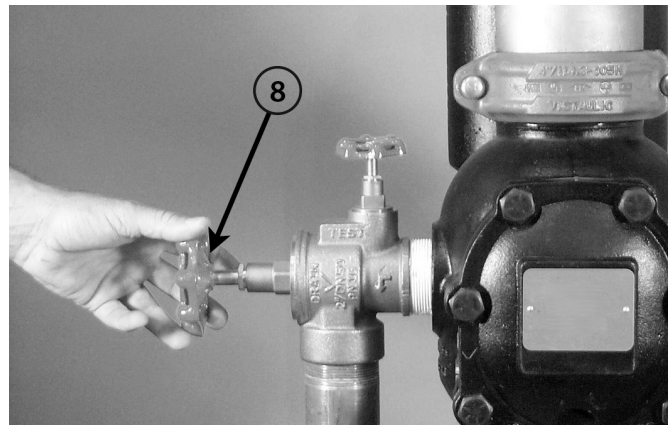
1. Notify the authority having jurisdiction, remote station alarm monitors, and anyone in the affected area that the main drain test will be performed.
2. Confirm that sufficient drainage is available.
3. Record the system pressure (14) and water supply pressure (5).

NOTICE

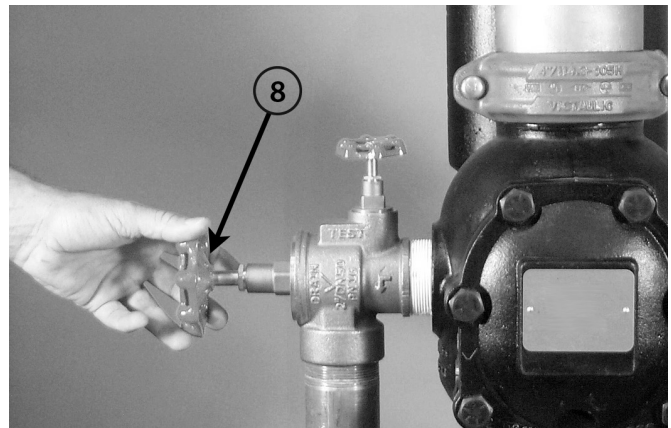
- If you do not want alarms to activate, close the alarm line ball valve.



4. Close the alarm line ball valve (11).



5. Open the system main drain valve (8) fully.
6. While the system main drain valve (8) is fully open, record the water supply pressure (5) as the residual pressure.

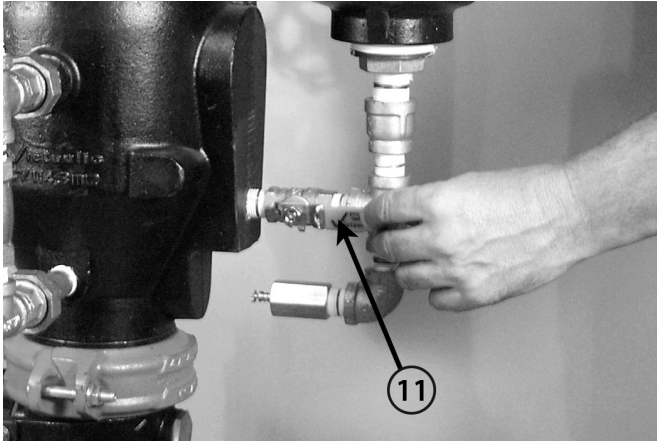


7. Close the system main drain valve (8) slowly.
8. Record the water supply pressure (5) established after closing the system main drain valve (8).
9. Compare the residual pressure reading, taken above, to the residual pressure readings taken in previous main drain tests. If there is degradation in the residual water supply reading, restore the proper water supply pressure.

⚠ CAUTION

- The alarm line ball valve must be open to allow alarms to activate.

Failure to follow this instruction will prevent alarms from activating during a fire condition, resulting in personal injury and/or property damage.



10. Open the alarm line ball valve (11).
11. Confirm that all valves are in their normal operating positions (refer to table below).

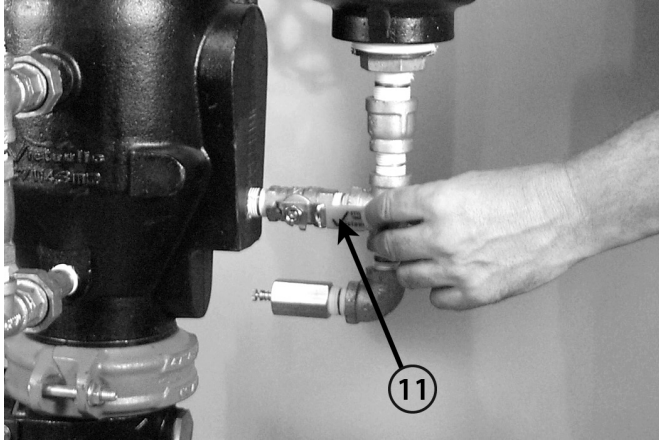
Valve	Normal Operating Position
Alarm Line Ball Valve	Open (Lockable)
Water Supply Main Control Valve	Open
System Main Drain Valve	Closed
System Test Valve	Closed

12. Notify the authority having jurisdiction, remote station alarm monitors, and those in the affected area that the valve is back in service. Provide test results, if required, to the authority having jurisdiction.

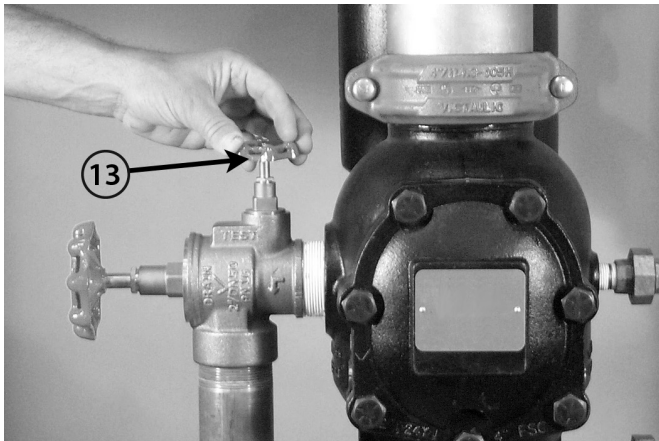
WATER FLOW ALARM TEST

Perform the water flow alarm test on a frequency required by national standards. In addition, the authority having jurisdiction in the area may require these tests on a more frequent basis. Verify these requirements by contacting the authority having jurisdiction in the affected area.

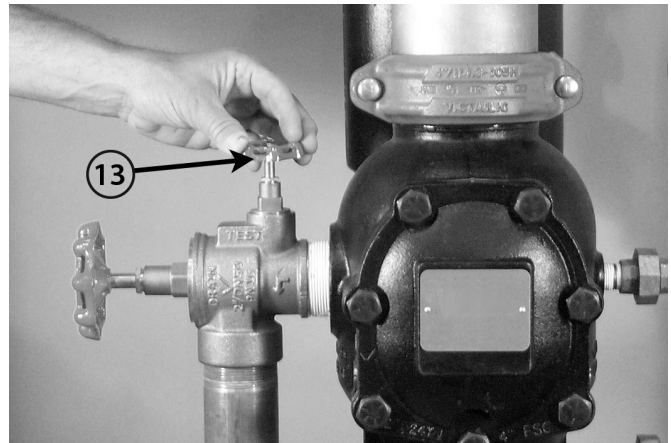
1. Notify the authority having jurisdiction, remote station alarm monitors, and anyone in the affected area that the water flow alarm test will be performed.



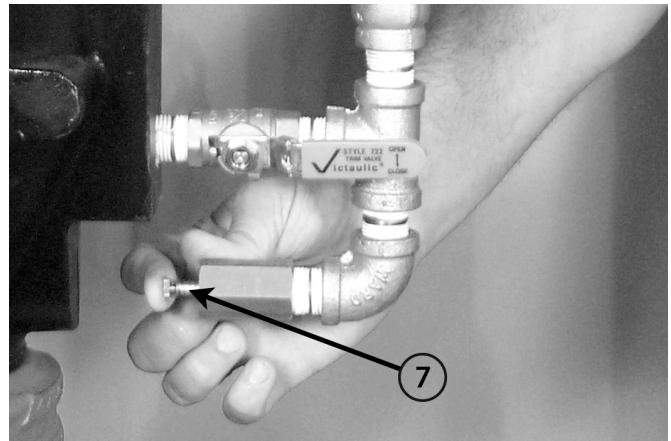
2. Verify that the alarm line ball valve (11) is open.



3. Open the system test valve (13) fully, as shown above. Confirm that mechanical and electrical alarms are activated and that remote monitoring stations, if provided, receive an alarm signal. **NOTE:** There may be a time delay if a Series 752 VdS Retarding Chamber Assembly (9) is installed.




4. Close the system test valve (13) after proper operation of all alarms is verified.
5. Verify that all alarms stopped sounding, that the alarm line drained properly, and that remote station alarms reset properly.




6. Push in the plunger of the restricted orifice/alarm line drain (7), as shown above.
 - 6a. Verify that water is not flowing from the restricted orifice/alarm line drain (7). If water is flowing, refer to the "Troubleshooting" section.
7. Notify the authority having jurisdiction, remote station alarm monitors, and those in the affected area that the valve is back in service.
8. Provide test results to the authority having jurisdiction, if required.

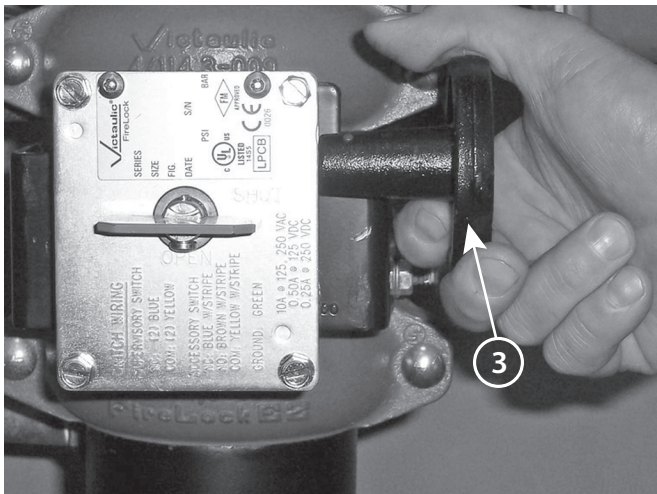
REQUIRED INTERNAL INSPECTION

Internal components should be inspected every five years or as required by national standards. The authority having jurisdiction in the area may require these inspections on a more frequent basis. Verify these requirements by contacting the authority having jurisdiction in the affected area.

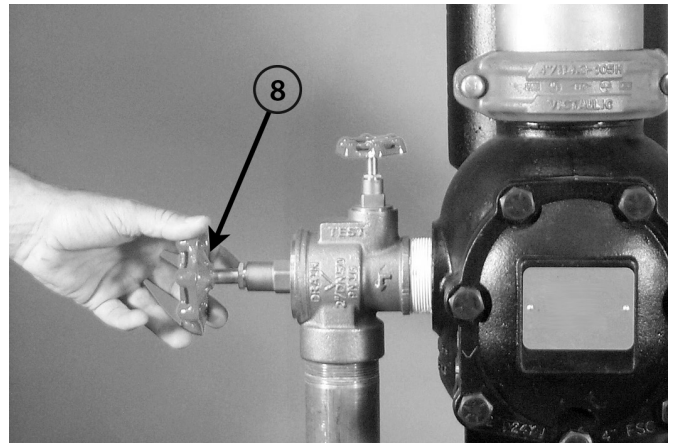
⚠ WARNING	
	<ul style="list-style-type: none"> • Depressurize and drain the piping system before attempting to remove the cover plate from the alarm check valve. <p>Failure to follow this instruction could result in serious personal injury and/or property damage.</p>

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

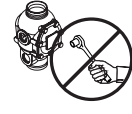

1. Notify the authority having jurisdiction, remote station alarm monitors, and those in the affected area that the system is being taken out of service.

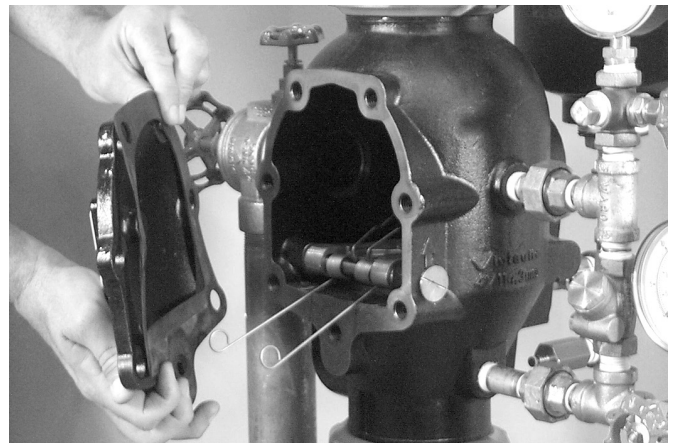


2. Close the water supply main control valve (3) to take the system out of service.



3. Open the system main drain valve (8), and allow the system to drain completely. It may be necessary to open the remote system test valve (inspector's test connection) and any auxiliary drains in order to drain the system completely.

⚠ WARNING	
	<ul style="list-style-type: none"> • Make sure the valve is depressurized and drained completely before the cover plate bolts are removed.
	<p>The cover plate could blow off if the cover plate bolts are removed while the valve is pressurized, resulting in serious personal injury and/or property damage.</p>



4. After all pressure is released from the system, loosen the cover plate bolts slowly. **NOTE:** DO NOT remove any cover plate bolts until all cover plate bolts are loosened.
 - 4a. Remove all cover plate bolts, along with the cover plate and cover plate gasket.

CAUTION

- **DO NOT use solvents or abrasives on or near the valve body seat ring.**

Failure to follow this instruction could prevent the clapper from sealing, resulting in improper valve operation and/or valve leakage.



5. Rotate the clapper out of the valve body. Inspect the clapper seal and seal-retaining ring. Wipe away any contaminants, dirt, and mineral deposits. Clean out any holes that are plugged in the valve-body seat ring. **DO NOT USE SOLVENTS OR ABRASIVES.**
6. Inspect the clapper for freedom of movement and physical damage. Replace any damaged or worn parts by following the applicable instructions in the "Maintenance" section.
7. Re-install the cover plate by following the "Installing the Cover Plate Gasket and Cover Plate" section.
8. Place the system back in service by following the "Placing the System in Service" section.

MAINTENANCE

The following sections instruct on how to remove and replace internal valve components. Care must be taken to avoid damage to parts during removal and installation.

WARNING



- **Depressurize and drain the piping system before attempting to remove the cover plate from the alarm check valve.**

Failure to follow this instruction could result in serious personal injury and/or property damage.

CAUTION



- Any activities that require taking the valve out of service may eliminate the fire protection provided.
- Before servicing or testing the system, notify the authority having jurisdiction.
- Consideration of a fire patrol should be given in the affected areas.

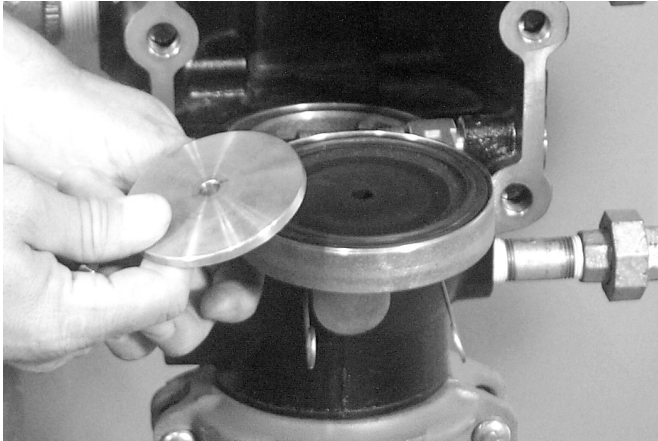
Failure to follow these instructions could result in serious personal injury and/or property damage.

REMOVING AND REPLACING THE CLAPPER SEAL FOR DN80, DN100, AND DN150 SIZE VALVES

1. Perform steps 1 – 4 of the "Required Internal Inspection" section.



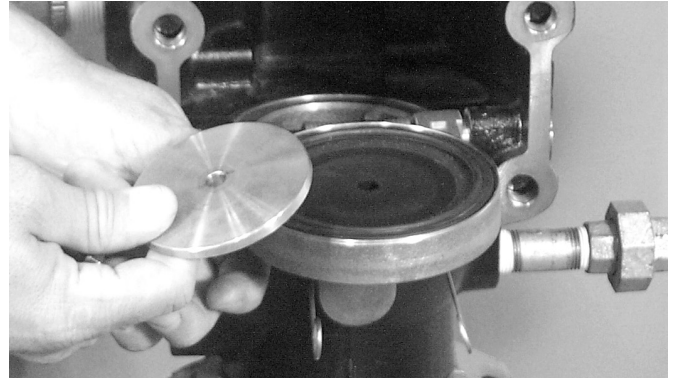
2. Remove the seal assembly bolt/bolt seal from the clapper.



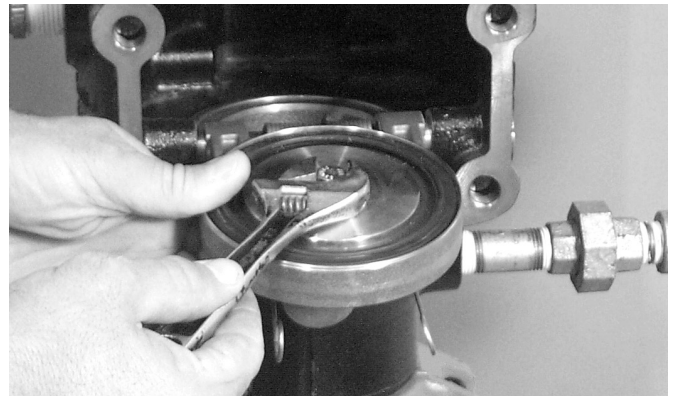
3. Remove the seal-retaining ring.

⚠ CAUTION

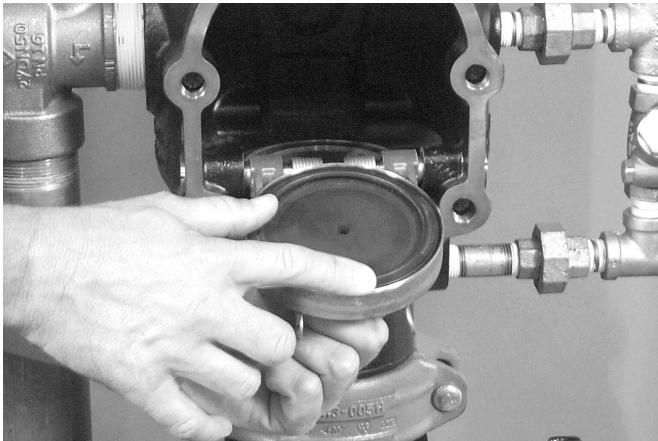
- Use only Victaulic-supplied replacement parts.
Failure to follow this instruction could cause improper valve operation, resulting in property damage.



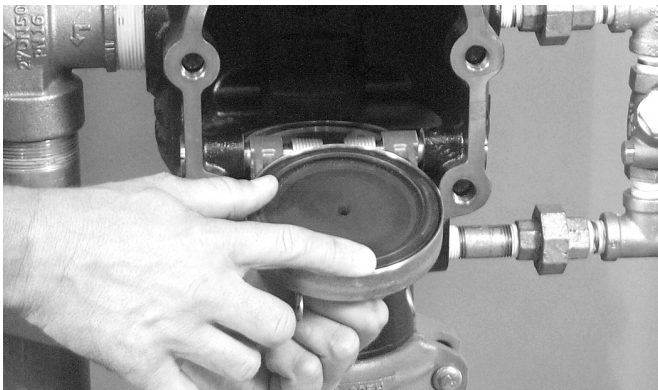
7. Place the seal-retaining ring (flat side down) onto the solid clapper seal.



8. Install the seal-assembly bolt/bolt seal through the seal-retaining ring and the clapper. Tighten the seal-assembly bolt/bolt seal to 8N•m.
9. Replace the cover plate by following the "Installing the Cover Plate Gasket and Cover Plate" section.
10. Place the system back in service by following the "Placing the System in Service" section.



4. Remove the solid clapper seal from the clapper. Inspect the seal. If the solid clapper seal is torn or worn, replace it with a new, Victaulic-supplied solid clapper seal.
5. Remove any contaminants, dirt, and mineral deposits from the clapper. Make sure the sealing surface area is clean, dry, and free of foreign material. If the clapper shows any signs of damage, replace it with a new, Victaulic-supplied clapper.



6. Install the solid clapper seal into the clapper. Make sure the sealing lip is pointing upward.

REMOVING AND REPLACING THE CLAPPER SEAL FOR DN200 SIZE VALVES

1. Perform steps 1 – 4 of the "Required Internal Inspection" section.



2. Remove the seal assembly bolt/bolt seal from the clapper seal.



3. Remove the seal-retaining ring.

<p>⚠ CAUTION</p>
<ul style="list-style-type: none"> • DO NOT pry the seal washer out of the clapper seal from the inner hole. <p>Failure to follow this instruction could damage the seal washer, resulting in improper clapper sealing and valve leakage.</p>



4. Pry the edge of the seal washer from inside the clapper seal, as shown above. **DO NOT PRY THE SEAL WASHER OUT FROM THE INNER HOLE.**

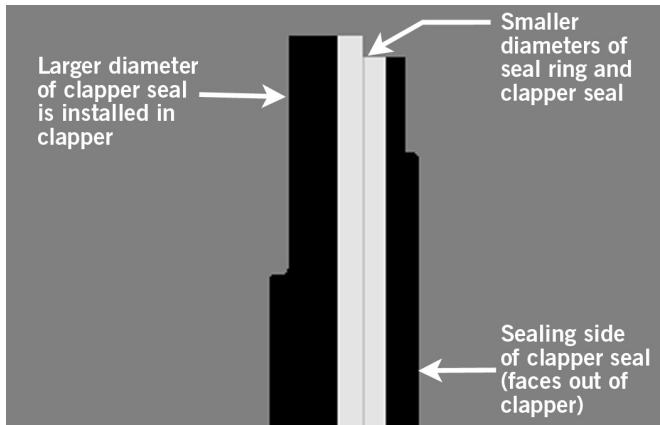


5. Remove the seal washer from the clapper seal. Dry up any moisture that is under the seal washer and on the clapper seal.

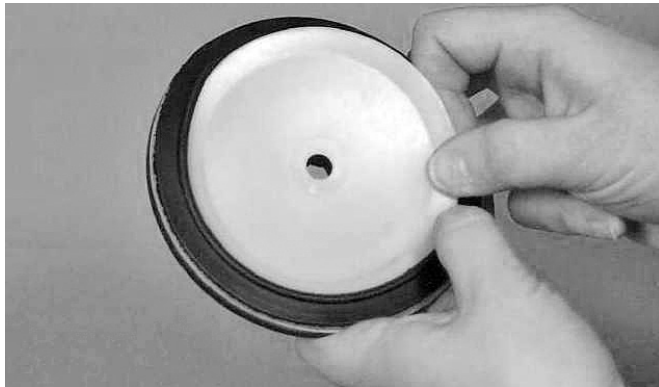
<p>⚠ CAUTION</p>
<ul style="list-style-type: none"> • Use only Victaulic-supplied replacement parts. <p>Failure to follow this instruction could cause improper valve operation, resulting in property damage.</p>



6. Pry the clapper seal, along with the seal ring, out of the clapper. Inspect the clapper seal. If the clapper seal is torn or worn, replace it with a new, Victaulic-supplied clapper seal. If replacing the clapper seal assembly with a new assembly, skip to step 7.



- 6a. **If using the same clapper seal assembly and the seal ring was removed from the clapper seal in the previous step:** Re-insert the seal ring carefully underneath the outer lip of the clapper seal. Make sure the smaller diameter of the seal ring is toward the sealing surface of the clapper seal.



7. Insert the seal washer carefully underneath the sealing lip of the gasket.
8. Remove any contaminants, dirt, and mineral deposits from the clapper. Make sure the sealing surface area is clean, dry, and free of foreign material. If the clapper shows any signs of damage, replace it with a new, Victaulic-supplied clapper.



9. Install the clapper seal into the clapper carefully. Make sure the seal ring snaps into the clapper completely.



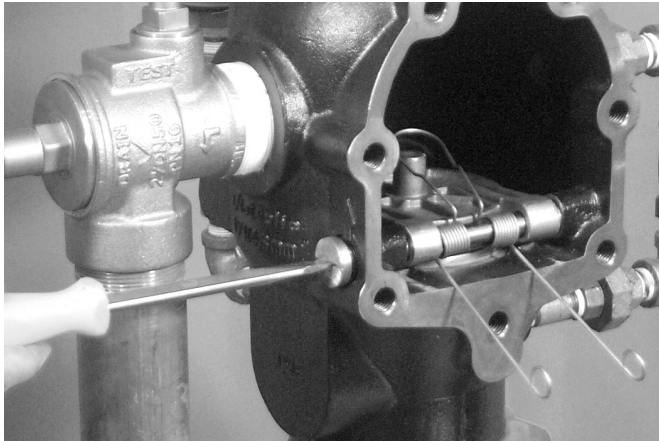
10. Place the seal-retaining ring (flat side down) onto the seal washer of the clapper seal.



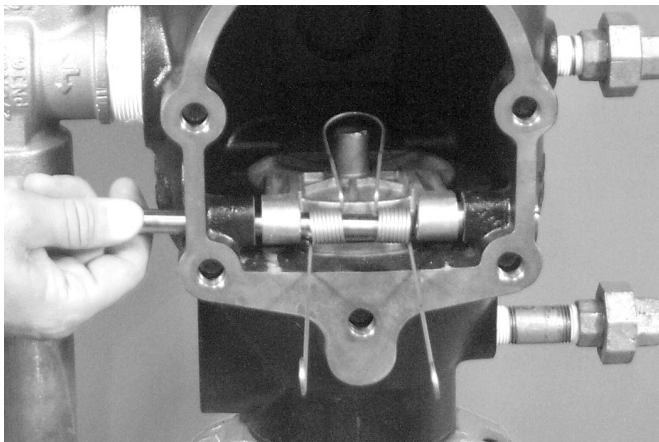
11. Install the seal assembly bolt/bolt seal through the seal-retaining ring and clapper. Tighten the seal-assembly bolt/bolt seal to 18 N•m.
12. Replace the cover plate by following the "Installing the Cover Plate Gasket and Cover Plate" section.
13. Place the system back in service by following the "Placing the System in Service" section.

REMOVING AND REPLACING THE CLAPPER ASSEMBLY (ALL SIZES)

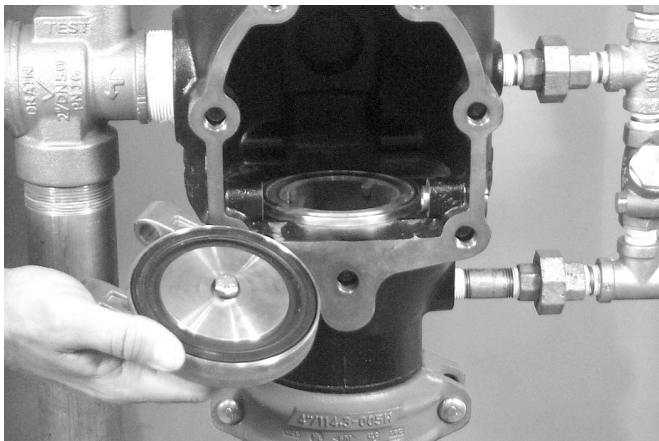
1. Perform steps 1 – 4 of the "Required Internal Inspection" section.



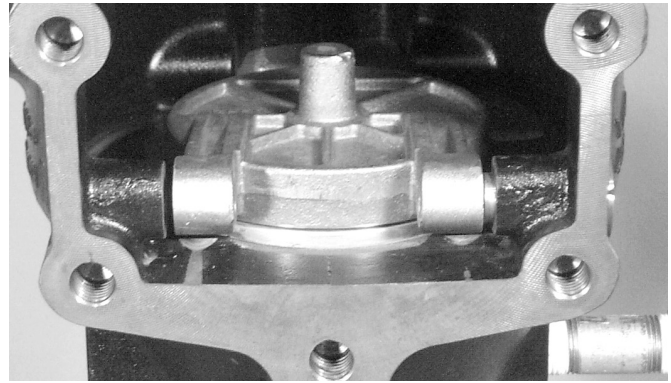
2. Remove one clapper shaft retaining bushing from the valve body.



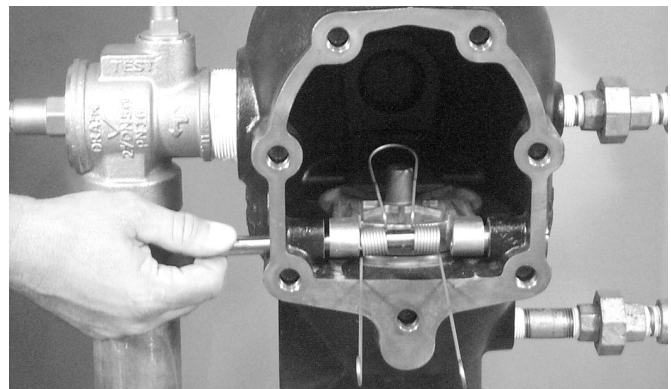
3. Remove the clapper shaft. **NOTE:** As the shaft is being removed, the clapper spring will drop out of position. Keep the clapper spring for re-installation.



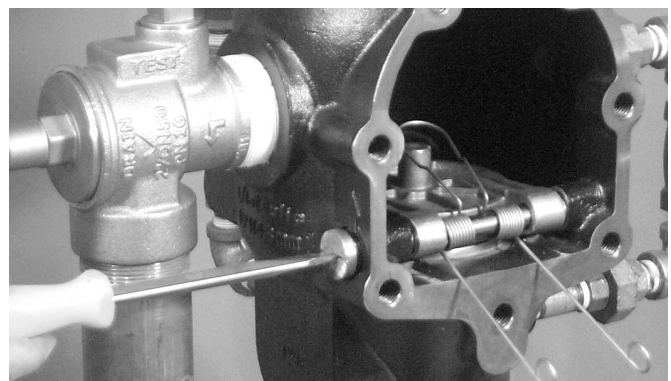
- 3a. Remove the clapper from the valve body.



4. Verify that the clapper seal is installed properly in the clapper by referring to the applicable "Removing and Replacing the Clapper Seal" section. Place the new clapper assembly onto the valve-body seat ring. Make sure the holes in the clapper arms align with the holes in the valve body.



5. Insert the clapper shaft halfway into the valve body.
- 5a. Install the clapper spring onto the clapper shaft. Make sure the loop of the clapper spring is facing toward the clapper, as shown above.
- 5b. Finish inserting the clapper shaft through the clapper arm and valve body.



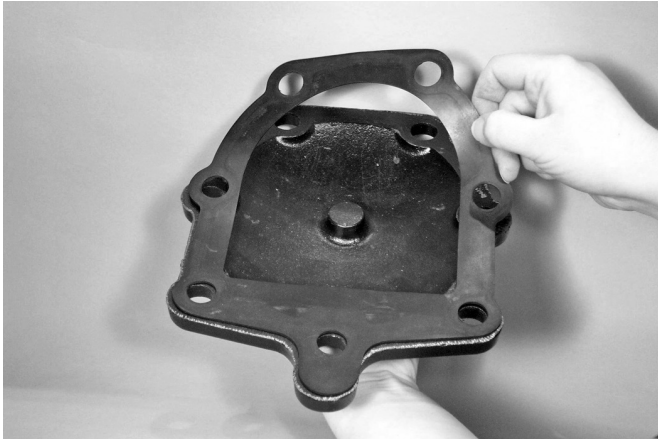
6. Apply thread sealant to the clapper shaft retaining bushing. Install the clapper shaft retaining bushing into the valve body until hand-tight.
- 6a. Tighten the clapper shaft retaining bushing until metal-to-metal contact occurs with the valve body.
7. Check the clapper for freedom of movement.
8. Replace the cover plate by following the "Installing the Cover Plate Gasket and Cover Plate" section.
9. Place the system back in service by following the "Placing the System in Service" section.

INSTALLING THE COVER PLATE GASKET AND COVER PLATE

⚠ CAUTION

• Use only Victaulic-supplied replacement parts.
 Failure to follow this instruction could cause improper valve operation, resulting in property damage.

1. Verify that the cover plate gasket is in good condition. If the gasket is torn or worn, replace it with a new, Victaulic-supplied gasket.



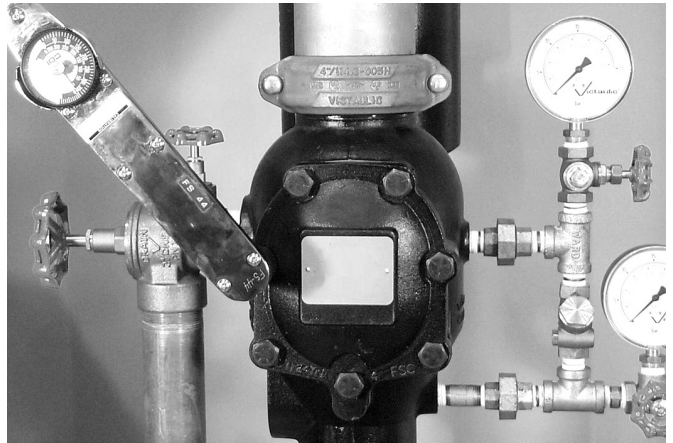
2. Align the holes of the cover plate gasket with the holes in the cover plate.



3. Insert one cover plate bolt through the cover plate and cover plate gasket to ease alignment.

⚠ CAUTION

• DO NOT over-tighten the cover plate bolts.
 Failure to follow this instruction could cause damage to the cover plate gasket, resulting in valve leakage.



4. Align the cover plate/cover plate gasket to the valve. Make sure the clapper spring's arms are rotated to their installed position. Tighten all cover plate bolts into the cover plate/valve body.
- 4a. Torque all cover plate bolts in an even, crossing pattern. Refer to the "Required Cover Plate Bolt Torques" table below for the required torque values. DO NOT over-tighten the cover plate bolts.

REQUIRED COVER PLATE BOLT TORQUES





Size	Torque N•m
DN80	81
DN100	136
DN150	156
DN200	136

5. Place the system back in service by following the "Placing the System in Service" section.

TROUBLESHOOTING – SERIES 751 FIRELOCK EUROPEAN ALARM CHECK VALVE STATIONS

PROBLEM	POSSIBLE CAUSE	SOLUTION
The system water pressure gauge is fluctuating with the supply pressure.	The check valve in the bypass line is installed backward. Debris is present in the bypass check valve.	Check the orientation of the bypass check valve. The arrow must point from the supply side to the system side. Remove the threaded cap to the check valve, and remove any debris. Make sure the clapper is free to move.
Water is leaking from the intermediate chamber.	Water is getting past the seal.	Check the clapper seal and seat for physical damage. Make sure no debris is present on the clapper seal and seat. Make sure there is no vacuum in the alarm line. If a vacuum is present in the alarm line, install the Series 752V Retard Vent Kit or create some means of an air break in the alarm line.
The water motor alarm is not ringing or the ringing is weak.	No water is going into the intermediate chamber. Water from the alarm line could be leaking out of the alarm line drain of another valve. The wrong restrictor size is installed in the alarm line drain.	Make sure the holes in the seat ring are not plugged. Make sure there are check valves isolating the alarm line of each valve in the system. Confirm that the proper restrictor size is installed in the alarm line drain. If the proper restrictor size is not installed, refer to the trim drawing to replace the restrictor with the correct size.

Series 751 FireLock™ European Alarm Check Valve Stations

Victaulic Company 4901 Kesslersville Road US 18040 Easton, Pennsylvania Phone: 001-610-559-3300 Fax: 001-610-250-8817		
WET ALARM VALVE STATIONS		
APPROVAL NO.:	G4060008	
NAME OF PRODUCT:	NASSALARMVENTILSTATION/WET ALARM VALVE STATION "S/751" DN 80	
APPROVAL NO.:	G4040013	
NAME OF PRODUCT:	NASSALARMVENTILSTATION/WET ALARM VALVE STATION "S/751" DN 100	
APPROVAL NO.:	G4040014	
NAME OF PRODUCT:	NASSALARMVENTILSTATION/WET ALARM VALVE STATION "S/751" DN 150	
APPROVAL NO.:	G4060007	
NAME OF PRODUCT:	NASSALARMVENTILSTATION/WET ALARM VALVE STATION "S/751" DN 200	

For complete contact information, visit victaulic.com

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