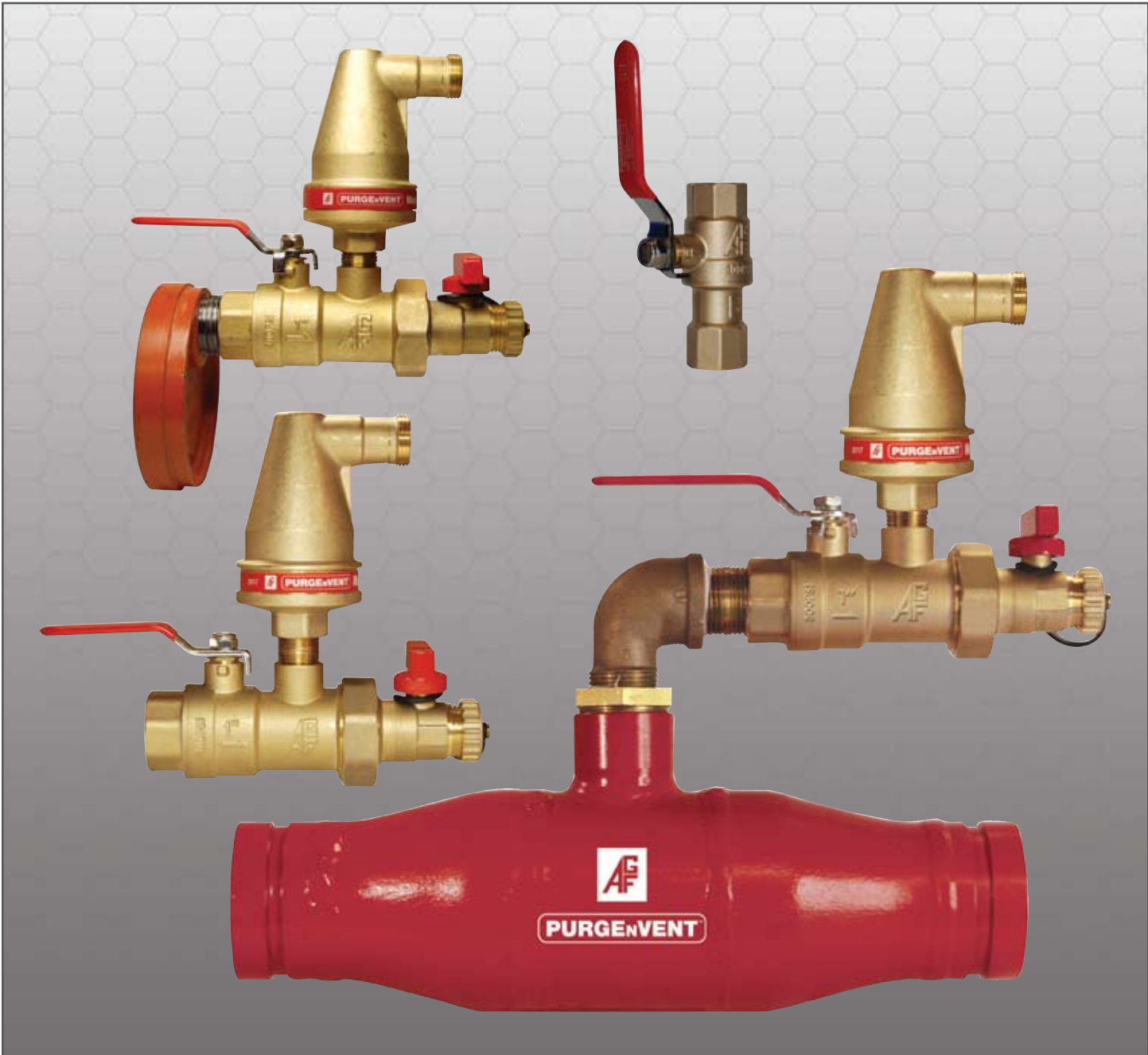




**AGF Manufacturing Inc.**

**PURGENVENT™**

**Manual and Automatic  
Air Venting Valves**



BR-PURGENVENT\_2019 • 1/19

*Reliability, Versatility, Code Compatibility*



## PURGENVENT™

# AIR VENTING VALVES

NFPA 13 (2016) standard requires the addition of an air vent on each wet fire sprinkler system to help mitigate internal pipe corrosion. PURGENVENT™ Air Venting Valves are designed to work alone or in tandem to eliminate as much excess air from the wet fire sprinkler system as possible.



### **NFPA 13 (2016)**

#### **7.1.5 Air Venting**

A single air vent with a connection conforming to 8.16.6 shall be provided on each wet pipe system utilizing metallic pipe.

#### **8.16.6\* Air Venting**

The vent required by 7.1.5 shall be located near a high point in the system to allow air to be removed from that portion of the system by one of the following methods:

- Manual valve, minimum 1/2" (15mm) size
- Automatic air vent
- Other approved means

**PURGENVENT™**

# MANUAL AIR VENTING VALVES

## Model 7910MAV

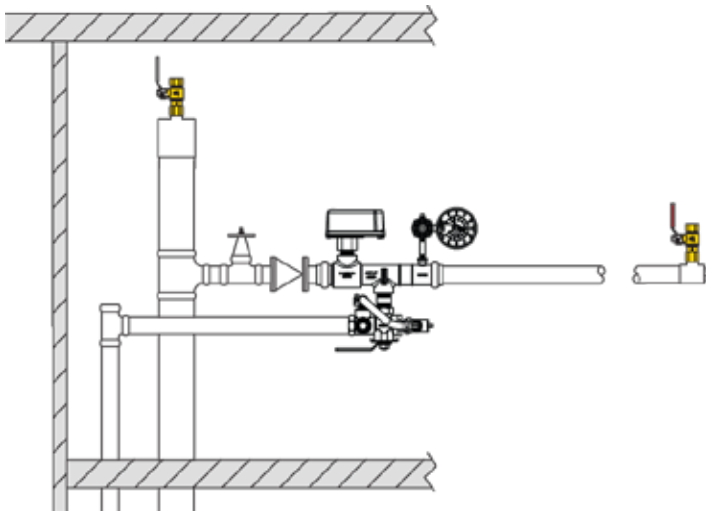
The PURGENVENT Model 7910 is a Manual Air Vent (MAV) for wet fire sprinkler systems. The Model 7910MAV is designed to exceed NFPA 13 standard that requires a single air vent be provided on each system utilizing metallic pipe.

To vent air, open the Model 7910MAV while the system is being filled and close the valve when the system is full. While the system is in operation the Model 7910MAV can be opened and closed in rapid succession to vent any remaining air from the system; keep the M7910MAV closed during normal system operation.

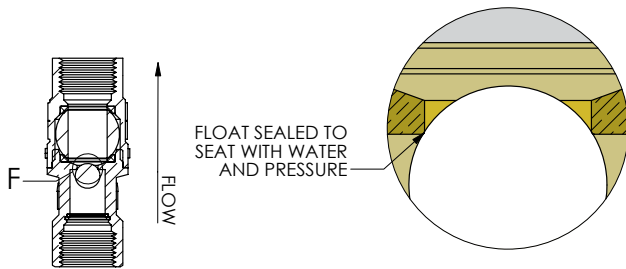
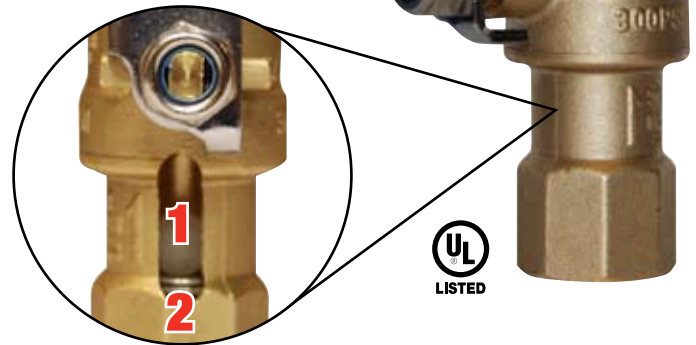
AGF recommends installing the M7910MAV at the end of system branch lines, at the highest and furthest points of the system, and at the top of supply risers.

The M7910MAV can also be used as a vacuum break while draining the system.

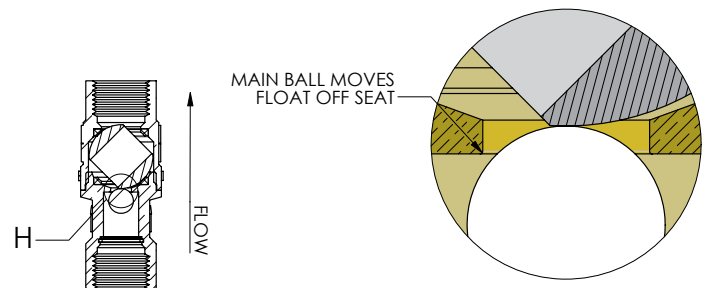
### Installation Locations



1. Ball Float
2. Strainer Screen



DETAIL F



DETAIL H

Item ID	Item Description
7910MAV	1/2" Manual Air Vent (MAV)

NOTE: Factory Mutual does not offer an approval standard for manual air venting valves.

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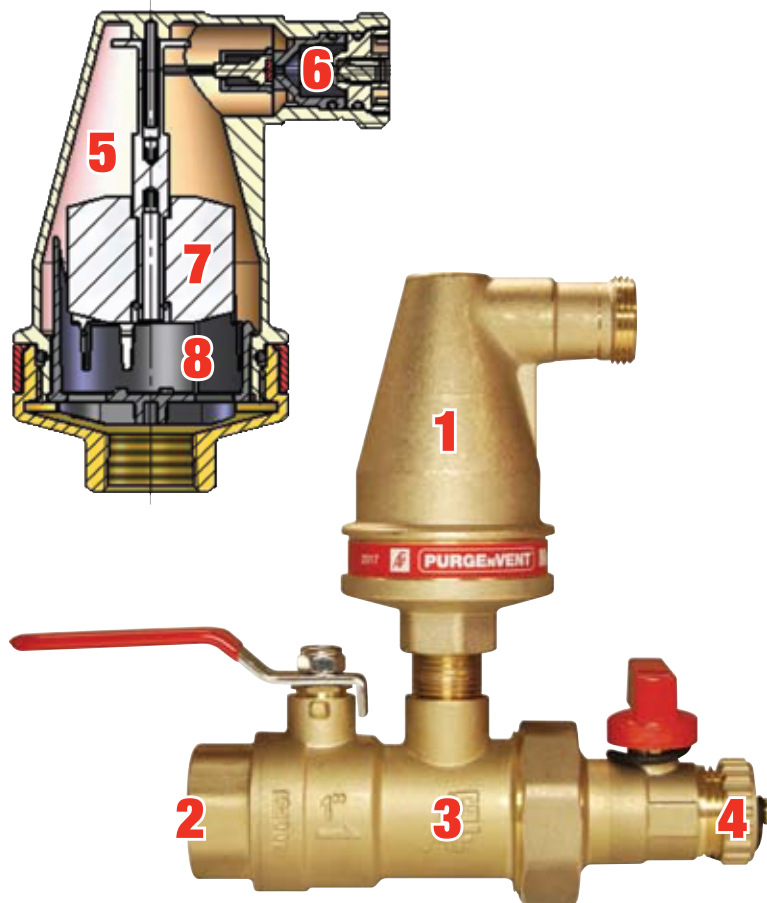
# AUTOMATIC AIR VENTING VALVES

## Model 7900AAV

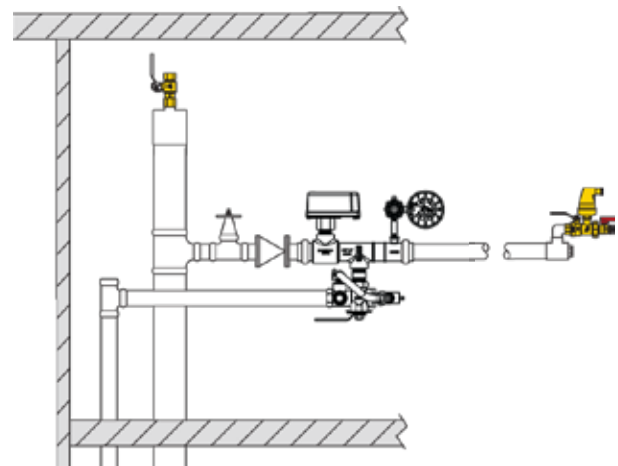
The PURGENVENT Model 7900 is an Automatic Air Vent (AAV) for wet fire sprinkler systems. The Model 7900AAV is designed to exceed NFPA 13 standard that requires a single air vent be provided on each system utilizing metallic pipe.



The patent-pending, one-piece isolation valve includes a purge valve with hose connection, strainer, and automatic air vent. To purge air from the system while it is being filled attach a hose to the purge valve's outlet and open the valve while the system is being filled. Close the purge valve when the system is filled and the automatic air vent will continue to vent excess air while the system is in operation. Close the isolation valve and remove the purge valve at the union to clean the strainer. By opening the purge valve the M7900AAV can also be used as a vacuum break while draining the system.

AGF recommends installing the M7900AAV at the end of system branch lines.



### Installation Locations



1. Patented,  FM Approved,  UL Listed M7900V Air Release Valve.
2. Forged brass body with 1" NPT isolation valve.
3. Stainless Steel 20 mesh strainer.
4. Adjustable purge valve with hose connection, thread cap, and lanyard.
5. Unique conical shape maximizes clearance to protect valve from contamination.
6. Recessed venting valve prevents damage to vent mechanism and float.
7. Single float on rigid shaft only allows vertical movement.
8. Bubble Breaker aids in the passage of air to the vent and acts as a secondary filter.



7610-2281 : 0500

Item ID	Item Description
7900AAV	1" Automatic Air Vent (AAV)




# PURGENVENT™

## AUTOMATIC AIR VENTING VALVES

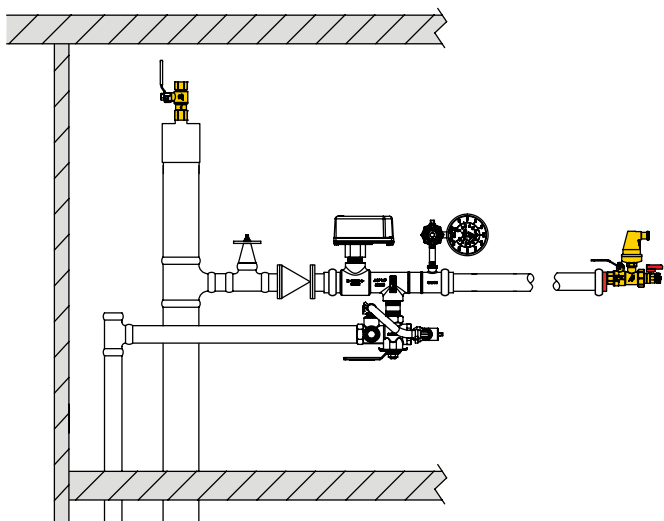
### Model 7930ECA

The PURGENVENT Model 7930ECA is a Automatic Air Vent for wet fire sprinkler systems.

The Model 7930ECA takes the  UL Listed Model 7900 Automatic Air Vent (AAV) and adds a close nipple and end cap for easy installation onto the end of system branch lines.

Install the M7930ECA at the end of system branch lines.

### Installation Locations



1. Patented,  FM Approved,  UL Listed M7900V Air Release Valve.
2.  UL Listed, 1" NPT isolation valve with stainless steel 20 mesh strainer and adjustable purge valve with hose connection, thread cap, and lanyard.
3.  UL Listed,  FM Approved, standard groove connection end cap with close nipple.

Sizes:

2"	2½"	3"	4"	6"	8"
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7610-2281 : 0500

Item ID	Item Description
7930ECA-20	1" Automatic Air Vent with 2" End Cap*
7930ECA-25	1" Automatic Air Vent with 2½" End Cap*
7930ECA-30	1" Automatic Air Vent with 3" End Cap*
7930ECA-40	1" Automatic Air Vent with 4" End Cap*
7930ECA-60	1" Automatic Air Vent with 6" End Cap*
7930ECA-80	1" Automatic Air Vent with 8" End Cap*



\*Coupling not included

**PURGENVENT™**

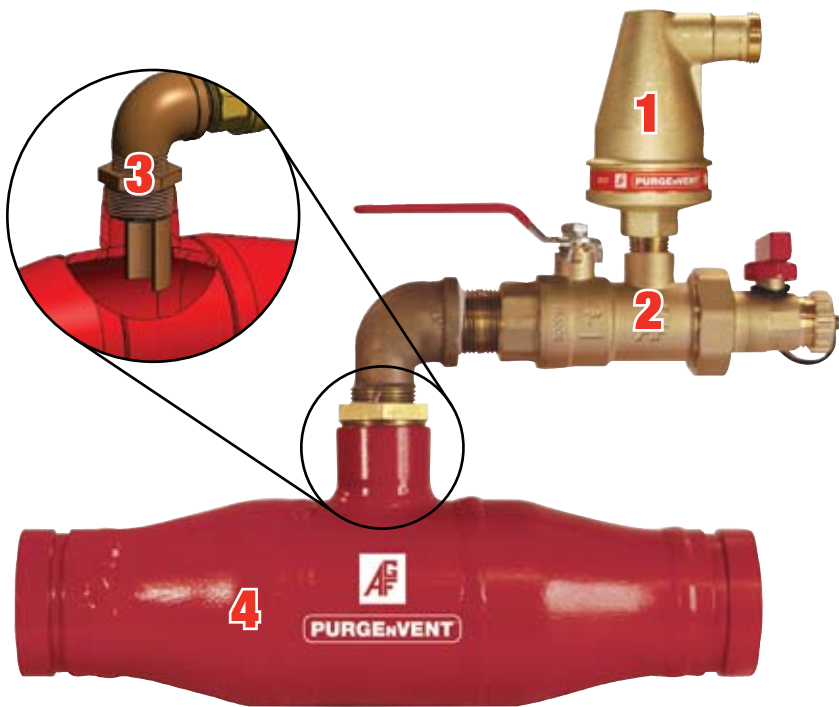
# AUTOMATIC AIR VENTING VALVES

## Model 7950ILV

The PURGENVENT Model 7950 is an Inline Vent (ILV) for wet fire sprinkler systems. The Model 7950ILV is designed to exceed NFPA 13 standard that requires a single air vent be provided on each system utilizing metallic pipe.




When filling the system the large diameter of the separation chamber allows the water to drop to the bottom and the air to rise up through the Air Scoop and be released by the  UL Listed,  FM Approved M7900V. As water exits the separation chamber it is reduced back to the supply line's diameter which pushes air back towards the chamber. The remaining air is pushed up the back side of the air scoop through it's quick vent channel where it is released through the M7900V. To purge air from the system while it is being filled attach a hose to the purge valve's outlet and open the valve while the system is being filled. Close the purge valve when the system is filled and the automatic air vent will continue to vent excess air while the system is in operation. Close the isolation valve and remove the purge valve at the union to clean the strainer. By opening the purge valve the M7900AAV can be used as a vacuum break while draining the system.

AGF recommends installing the M7950ILV after the floor control assembly. If extra space is needed the separation chamber can be turned 45° to create additional vertical space.



Sizes:

<b>2"</b>	<b>2½"</b>	<b>3"</b>	<b>4"</b>	<b>6"</b>	<b>8"</b>
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1. Patented,  FM Approved,  UL Listed M7900V Air Release Valve.
2. Forged brass body with 1" NPT,  UL Listed isolation valve.
3. Air Scoop with Patent Pending Quick Vent Channel.
4. Separation Chamber.

**Air Scoop**

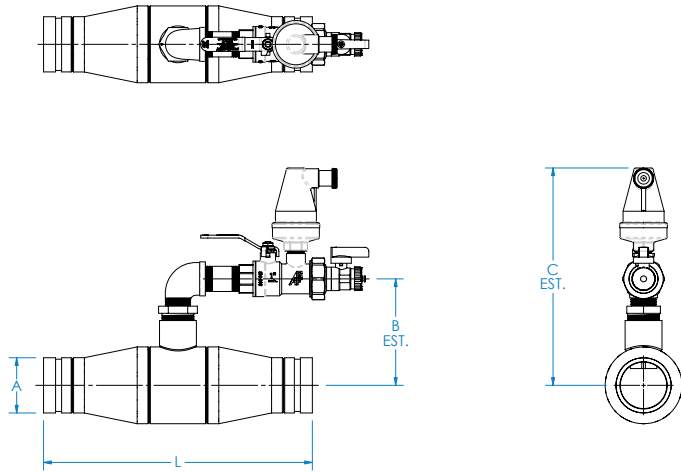


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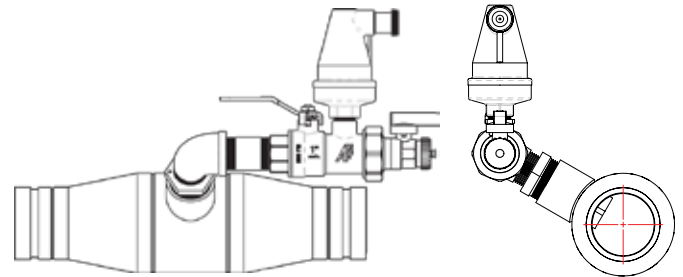
Item ID	Item Description
7950ILV-20	2" Collection Chamber and Air Scoop with M7900 Automatic Air Vent
7950ILV-25	2½" Collection Chamber and Air Scoop with M7900 Automatic Air Vent
7950ILV-30	3" Collection Chamber and Air Scoop with M7900 Automatic Air Vent
7950ILV-40	4" Collection Chamber and Air Scoop with M7900 Automatic Air Vent
7950ILV-60	6" Collection Chamber and Air Scoop with M7900 Automatic Air Vent
7950ILV-80	8" Collection Chamber and Air Scoop with M7900 Automatic Air Vent

## Dimensions & Orientation

Typical Installation Orientation



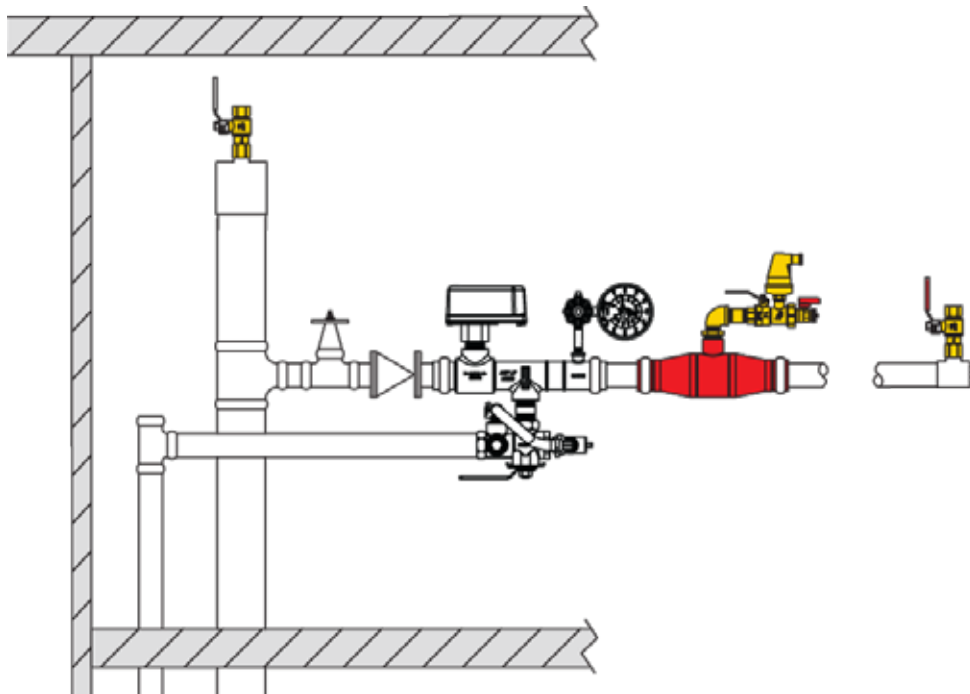
Alternative Installation Orientation



ITEM ID	SIZE	A	B (EST.)	C (EST.)	L
7950A-20	2"	2 3/8" [60]	5 1/4" [133]	11 1/8" [283]	14" [356]
7950A-25	2 1/2"	2 7/8" [73]	5 1/2" [140]	11 3/8" [289]	14" [356]
7950A-30	3"	3 1/2" [89]	5 3/4" [146]	11 5/8" [295]	14" [356]

ITEM ID	SIZE	A	B (EST.)	C (EST.)	L
7950A-40	4"	4 1/2" [114]	6 1/4" [160]	12 1/8" [309]	14" [356]
7950A-60	6"	6 5/8" [168]	7 7/8" [198]	13 3/4" [348]	18" [457]
7950A-80	8"	8 5/8" [219]	8 7/8" [225]	14 3/4" [375]	18" [457]

## Installation Locations





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