

# 8 Steps for Proper Water Distribution Installation

Best Practices For Commercial Drinking Water Systems



## 1. Test water

Always test the water for every application to ascertain with certainty the treatability of the challenge water. Failure to do so could cause premature failure of the treatment equipment and subsequent poor water quality at the point of use.

## 2. Confirm hydraulics

Check the available water pressure at the proposed installation site. If the water pressure is too low for line pressure system, a booster pump may be required to provide the required applied pressure to obtain the optimal water quality. If the pressure is too high (above 80 PSIG), a pressure regulating valve will be needed to maintain consistent feed pressure to the treatment system.

## 3. Specify water treatment

Only after completing steps 1 and 2 can you specify accurate



water treatment. The system specification will be determined by the final water quality and quantity required by the customer.

## 4. Equipment list

Compile the required equipment list including accumulator/pressure tanks, filter housings, mounting brackets, etc.

## 5. Installation material selection

Select the connectors, tubing and installation accessories for the installation. This includes inspection of the point of use appliances that will be serviced by the purified water. The connection size and type for each appliance is needed to determine the proper fitting,



tube size for the required service flow and any special accessories that may be required such as tube mounting clips, wall anchors and code compliant drain line air gaps for waste water discharge. Additionally, check the operating parameters to make sure the purified water pressure meets the minimum pressure requirements for optimal inlet solenoid operation.

## 6. System purveyance components layout

Arrange system component layout for the purified water purveyance. Keep in mind that serviceability and ease of access is important to the service company technicians as well as the safety of the customer and or consumer. Installation, routing and securing of the purveyance piping and/or tubing must be done in a workmanlike manner. It is critical to the success of the project and the long-term, reliable performance.

## 7. Start up and Sanitizing

Start up of the system begins with the water treatment system components. Once purged of air and leak tested, sanitizing of the system is required to ensure bacteriologically safe water is provided to the purveyance components, piping/tubing and appliances. Flooding the entire system with sanitizing solution ensures a hygienic environment throughout the system, components and purveyance piping.

## 8. Commissioning

Confirm the water quality and quantity specifications are within customer requirements by testing the quality and service flow for each of the appliances. Complete all warranty documents, apply service contact labels for the customer in case service is required before regularly scheduled maintenance. Orient the customer in their responsibilities for monitoring their system and any light maintenance they are required to do.



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