

GF Piping Systems

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AquaTap™ Recirculating Faucet

Innovative solution for high
quality DI water system

Rice University, Houston, Texas

Eliminate dead-legs at all points of use
to maintain purity throughout the DI
water loop

Rice University

Houston, Texas

The Ralph S. O'Connor Building at Rice University required an advanced solution to minimize dead legs in its deionized (DI) water piping system. Dead legs, which occur when water stagnates in sections of the piping system, can lead to contamination and inefficiencies. Wylie Engineering and GF Piping Systems collaborated to address this challenge using AquaTap faucets with Inline Flow Diverters (IFD).

Solution

The AquaTap™ Recirculating Faucets, designed and specified for installation within the O'Connor Building by Wylie Engineering, were installed to eliminate dead legs and ensure a continuous flow of high quality water throughout the DI piping system. The inline flow diverter (IFD), designed for use with the AquaTap™ Faucet, is engineered to produce a small pressure differential that forces a portion of the recirculating DI piping loop through the faucet (up to 50 feet). Using the AquaTap™/IFD package promotes efficient recirculation and reduces the need for complex piping layouts. This setup allows for the use of smaller pipes (diameter) and support.

Results

The installation of over 200 AquaTap™ faucets with IFD control should successfully prevent dead legs and ensure optimal water quality within the O'Connor Buildings' DI water piping system. The system's design also reduces water waste and simplifies a portion of the facility's plumbing infrastructure.

Customer comments

"I've stuck with this type of piping system since we found it. And of course, the service behind it and the response that we get, and I got to say, I don't think we've ever needed to troubleshoot anything, we just installed it."

Victor Garcia
Senior Plumbing Designer at Wylie Engineering



AquaTap™ recirculating laboratory faucets installed in combination with Inline Flow Diverters (IFD) eliminate dead-legs at all points of use to maintain purity throughout the DI water loop.



Wylie Engineering and GF Piping Systems collaborated to address this challenge using AquaTap faucets with Inline Flow Diverters (IFD) in the Ralph S. O'Connor Building at Rice University.

For more information about AquaTap, please either scan the QR code or [click here](#).



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