

Meliá Orlando Suite Hotel at Celebration Reduces Water Costs by 19%



In an effort to meet corporate sustainability goals, Meliá Orlando Suite Hotel at Celebration, conveniently situated minutes away from Walt Disney World Parks, Sea World along with Universal Studios Orlando, has implemented multiple “green” technologies that reduce energy and water usage to help protect our fragile environment

The Solution

After careful analysis of the plumbing distribution system in the complex, the plumbing technicians installed the patented valve on both the hotel irrigation line and the main water line in February of 2017. Savings of 29% on the irrigation line and 14% on the main water line was immediately realized. All of this was accomplished without a change in water pressure being detected by the guests.

How it Works

SMART VALVE™ is an innovative patented product designed to improve water meter accuracy and achieve water conservation. Installation of **SMART VALVE™** on the owner’s side of the meter set will reduce consumption readings, thereby reducing monthly water & sewer bills. **SMART VALVE™** is specially designed to maintain PSI at a constant level throughout the water distribution system. Flow speed is varied, keeping head pressure constant. As a result, water meter readings for non-volumetric applications will be reduced anywhere from 10 to 35%. The **SMART VALVE™** solution creates a solid back core of pressure to reduce air pockets and increase meter accuracy. If high line pressure exists, it is also a pressure reducing valve protecting all of your downstream components and eliminating meter “spinning”.

Project Snap Shot

Before **SMART VALVE™**

Monthly Water Usage—22,000 Gallons

After **SMART VALVE™**

Main Water Line Savings – 14%

Irrigation Line Savings – 29%

Annual Savings - \$13,382

5 Year “PROFIT” - \$52,000

Return on Investment

12.72 months

Solution Benefits

- » Correcting water meter measurement by reducing over-spinning
- » Decreasing water consumption by regulating flow with an insignificant change in pressure
- » Minimizing “air slug” or pockets of air in the water line

