

# THE ADDRESS DOWNTOWN REINSTATEMENT

## COMPONENTS FOR BALANCING AND DOMESTIC WATER SYSTEMS

**CONSTRUCTION SITE:** An award-winning, iconic flagship hotel and a veritable landmark of luxury situated in the very centre of Downtown Dubai, Address Downtown, which stands tall near Burj Khalifa and The Dubai Mall, is a 63-story, 302.2 m (991 ft) supertall hotel and residential skyscraper in the Burj Dubai Development Area of Dubai, United Arab Emirates. It was built by Emaar Properties Group.

The tower is the twenty-second tallest building in Dubai.

The tower was topped out in April 2008, and was then the sixth tallest building in Dubai.

The AED845 million tower was completed in September 2008.

After the fire dated 2015, the whole building has been refurbished.

The five-star hotel and residential compound features 196 rooms and 626 serviced apartments.

Along with access to the hotel's facilities, residents at Address Downtown are an amble away from The Dubai Mall, Souk Al Bahar and Dubai Opera, and enjoy close proximity to key commercial districts such as Dubai International Financial Centre and Dubai World Trade Centre.

**DESIGNER COMPANY:** AECOM

**BUILDING COMPANY:** EMAAR PROPERTIES GROUP

**CONTRACTOR:** BK Gulf LLC – Dubai

**LOCATION:** Dubai (UNITED ARAB EMIRATES)

## HVAC and plumbing solutions? Yes, we care.



### INSTALLATION DETAILS:

*In this luxury hotel the regulation of the chilled water and the management of the whole air conditioning system is entrusted to Caleffi 145 PICV and 146 Series. This choice has been taken with the aim to maximize both the comfort level and the energy saving.*

*Each single unit operation can be modulated by the BMS in order to achieve the maximum efficiency possible. The comfort and the safety in the plumbing system is ensured by the presence of Caleffi 536 Series Pressure Reducing Valves and Caleffi 525 Series Water Hammer arresters.*

*The compensated seat of Caleffi 536 Series ensures precise and constant regulation despite system pressure fluctuations. The construction of Caleffi 525 Series ensures constant safety performance in the long time period.*

### PRODUCT FEATURES:

The pressure independent control valve (PICV) is a device composed of an automatic flow rate regulator and a control valve with actuator. The device is installed in HVAC systems and can adjust flow rate and keep it constant despite of changing differential pressure conditions of the circuit in which it is installed, ensuring accuracy, comfort and energy saving.

Pressure reducing valves are devices for plumbing systems. When installed on domestic water systems, such devices reduce and stabilise the pressure of the water entering from the main network. This inlet pressure, in general, is too high and variable. The goal of Pressure reducing valves is to ensure safety and stability to the final users.

Water hammer phenomenon may occur in plumbing systems when the fluid is accelerated or decelerated very quickly, due to the rapid closure of valves or taps or as a consequence of a circulation pump stopping. The effect consists in the propagation of over- and underpressures along the pipes, which may result in noise and damage to the whole system. The water hammer arrester, when installed close to single-lever mixing taps, solenoid valves, ball valves, prevents such negative effects.

