



Newsletter March 2010 BURJ KHALIFA TOWER, برج خليفة

Dear CLA-VAL Customer,

Officially opened on January 4th, 2010, the Burj Khalifa Tower is part of a 2 km² (500 acre) Downtown Burj Khalifa development.

The Burj Khalifa is the tallest skyscraper with 828 m (2'717 ft) to the top of spire.

Construction began September 21, 2004 with the exterior of the structure completed October 1, 2009.

The tower has a three-lobed design pattern arranged around a central core. The design architect Adrian Smith said the Y-shaped footprint of the building was inspired by a flower. The building design also incorporates cultural and historical elements particular to the region. The building picture shows some of the total 26 terraces in Burj Khalifa. At the top, the central core emerges and is sculpted to form a spire.

The Tower will hold up to 35'000 people with 57 elevators and 8 escalators. The tower has 2'909 stairs from the ground floor to the 160th floor.

The building will mix hotel, over 900 residential apartments and offices.

The total cost for the Burj Khalifa project was about USD 1.5 billion. Residences were selling for USD 37'500 per m² (USD 3'500 per sq ft).

The tallest and most expensive man made structure ever built!

Outside the building, WET Design, the California-based company responsible for the fountains at the Bellagio Hotel in Las Vegas, designed a record-setting fountain system up to 275 m (902 ft) long and shoots water 150 m (490 ft) into the air. Illuminated by 6'600 lights and 50 projectors it is the most fascinating way to listen to classical music or contemporary Arabic and world music.



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The Burj Khalifa's water system supplies an average of 946'000 l (250'000 USgal) of water per day!

At peak colling times, the tower requires cooling equivalent to that provided by 10'000 t (22'000'000 lb) of melting ice in one day!

CLA-VAL did provide all the valves to regulate the fountain level reservoirs as well as several valves for the 11 ha (27-acre) park. Beside the central fountain the park has six water features, flowered gardens and palm lined walkways.



CLA-VAL has been awarded the supply for Automatic Control Valves for drinking water (hot and cold) as well as fire protection. The Burj Khalifa requested more then **300** valves to manage all the water supply and fire protection.

For Water supply (hot and cold) the following CLA-VAL valves are installed:
CLA-VAL Pressure Reducing NGE 90-01.
CLA-VAL On-Off Float Control.



All valve are in a very special execution SS 316 Electro-polished body and cover.

For Fire Protection the following CLA-VAL valves are installed:
CLA-VAL Fire Pressure Relief 50B-4KG.
CLA-VAL Pressure Reducing 90G-21.



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Questions or Comments ?
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