



West End Tower, Frankfurt

FlowCon valves have been chosen for the refurbishment of the fan coil system for West End Tower, Frankfurt.

FlowCon was chosen as the requirement of a very compact valve could only be met by offering a customized solution.

Westendstraße 1 is a 53-storey, 208 meter skyscraper in the Westend-Süd district of Frankfurt, Germany. The structure was completed in 1993 and together with the nearby City-Haus, it forms the headquarters of the DZ Bank. In 1995 it won the "Best Building of the Year" award by the American Chamber of Architects in the multifunctional skyscraper category. The tower is the third tallest skyscraper in Frankfurt as well as in Germany.

The building is a reinforced concrete structure with a perforated facades and flat slabs. The floor height is usually 3.6 meter with a floor area of 950 square meters. It is housing commercial offices and the construction started in 1990 and the building was opening in 1993.

The building is housing the DZ Bank. Characteristic of this high-rise is its projecting upper termination, which gives the impression of a crown. This corona consists of 11 spokes and extends 11 meters out from the building. In order to prevent icing, it is heated in winter. There is a winter garden in the center of the building, which is open to the public and the building also contains a shopping area and restaurant facilities.

Controlled indoor temperature in any office building is very important for both the comfort and productivity of the employees. However, the demands of a climate control system in office glass buildings can be ex-

tremely high. The radiant energy is ultimately transformed to heat and can contribute with up to 700 W per m² window glass.

Especially in the summertime, these high variables can overload the climate control where accuracy and the ability to adjust a dynamic environment are key values. However, with the right HVAC technology it is possible to maintain a stable indoor temperature still only using the exact amount of energy that is required at any given time.

Because of all the commercials and offices in the building it is important with optimal indoor climate still with focus is on the environment and the cost of indoor climate. Therefore, a refurbishment of West End Tower was decided including changing of air conditioning and valves. To the refurbishment FlowCon valves were chosen to make sure that the environmental requirements were met, and the best solution obtained.



Project configurations

FlowCon is the main supplier of balancing valves for the refurbishment of West End Tower. The project configurations are as per below:

Number of valves: 1,700 units

Valve model: FlowCon E-JUST and FlowCon FF units

Configuration: Flow control for fan coils

Application: Cooling

Start date: In 2015

Completion date: End of 2016

Size: 80,700 m² (51 floors)

Reasons for choosing FlowCon valves for refurbishment

As a known industry specialist on delivering dynamic valves, it was natural to consider FlowCon along with other potential suppliers. In this case of refurbishment, it was requested by the installer that the

valves were no more than 88 mm in total length. The restriction in length was given to avoid expensive adjustment on the existing pipework. By understanding the client's needs FlowCon International managed - together with our local partner - to offer a solution with dynamic valves, ready to install with end connections and within the specified measurements.

The case is an example of the high flexibility that comes with FlowCon's patented insert system where one insert can fit different valve bodies. This system makes FlowCon the most flexible supplier on the market and able to meet custom requirements and offer customized solutions.

More information concerning the chosen products, is available at the FlowCon website:

<http://flowcon.com/products/inserts/e-just-inserts/>



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