



Newcastle Civic Centre

Client: Newcastle City Council

Consultant: WSP Parsons Brinkerhoff

Contractor: Newcastle City Council

Herz product: Commissioning Centre



Newcastle Civic Centre is a local government building and it is the main administrative and ceremonial centre for Newcastle City Council. The building was completed in 1967 and was formally opened by HM King Olav V of Norway on 14 November 1968, it is classed as a Grade II* listed building.

A 45 million pound refurbishment of the civic centre commenced in 2015 and is expected to be completed in early 2019. Part of the plan was to transform several floors of the building into modern work spaces and to upgrade the heating and cooling system to incorporate modern energy efficient standards and products.

Herz Valves UK were consulted at an early stage in the project to assist in providing an energy efficient solution for the valve provision in the air conditioning system. It was decided to utilise Herz Commissioning Centres as the most cost effective, energy efficient means for controlling the chilled beams that had been proposed.



Herz Project Reference



With today's emphasis on saving energy, designers are looking to cut costs to a minimum by utilising variable volume heating and cooling systems. The use of Dynamic Balancing Valves such as Pressure Independent Balancing Control Valves ensures that these issues are overcome and flow rates are controlled constantly, as required by modern room temperature control systems.

Herz supplied 80 commissioning centres over 10 floors at Newcastle Civic Centre at a total project value over £100K.

The Herz commissioning Centre has been designed to give a centralised location for commissioning multiple terminal units for heating and chilled water. All the valves incorporated are standard Herz products so the Herz reputation for quality and reliability is assured.



The commissioning centre incorporates isolation valves on all flow connections and pressure independent control valves on all return connections with a strainer fitted to the main flow intake fitted with a blow down drain valve. Three port ball valves allow flushing and isolating operations to be undertaken. Flow and return air vents are also fitted to the unit. The pressure independent control valves are fitted with modulating actuators to allow the BMS system to independently operate the valves and control the room temperatures efficiently.

The unit is supplied in an insulated steel fabricated box, totally vapour sealed for chilled water circuits and can be produced in left or right hand versions.

One of the big advantages of Herz Commissioning Centres is that any routine maintenance can be carried out at the box position, not the terminal unit, so boxes can be sited in corridors or other accessible positions. The use of multi-layered composite pipework means that no joints are required in the pipe runs as the pipe is easily bent, so less risk of leaks.

Herz also supplied over 4,000 metres of multi-layered composite pipe, pre-insulated class "O" insulation to BS476 P6:1989 conforming with fire regulations. Over 1,500 multi-layered pipe fittings were also supplied for this project.

The Herz commissioning centres have been selected to provide a cost effective energy efficient solution to the valve requirements for the heating and cooling system in this iconic building. Herz products supply piece of mind to the client due to the high quality of product and service that have been provided on this project.