

Ballorex

Precision made easy

Ballorex Dynamic

Pressure Independent Control Valve



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INTELLIGENT FLOW SOLUTIONS

Ballorex

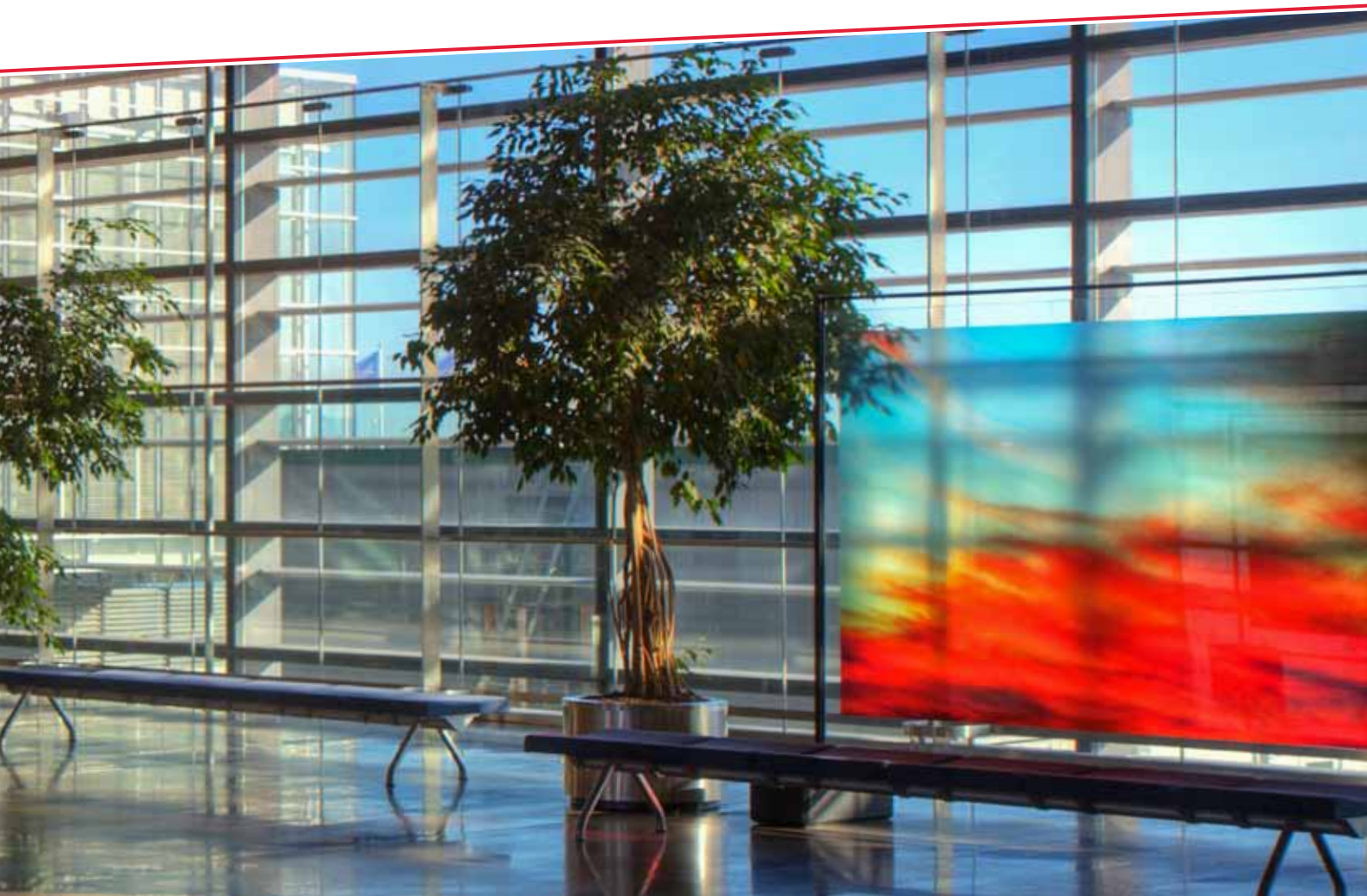
Total flow control with dynamic balancing



Precision made easy

Ballorex Dynamic is a new generation of pressure independent balancing and control valves. Ballorex Dynamic valves operate independently of changes in system pressure of cooling or heating systems. Applications are typically terminal units in multi-storey or high-rise buildings.

The design of the Ballorex Dynamic ensures that the flow is set and controlled without any overflow and excess pump load conditions. The result is optimal end-user comfort, reduced energy consumption, and cost savings.





Perfect balance eliminates commissioning

The innovative Ballorex Dynamic design contains a removable cartridge with pressure independent pre-setting, flow measuring, and control valve function – all in one unit. The complete product range comprises valves sizes DN 15 - 50 manufactured in dezincification resistant brass (DZR).

Fitted with an actuator the Ballorex Dynamic combines the automatic flow limitation and the two-way control function in one valve. The flow is then controlled directly by the BMS system or the room thermostat signal.

As the radial movement of the pre-setting unit and the axial stem movement of the two-way valve function operate independent of each other, the actuator will always have full stroke available providing 100% control authority all the time. The Ballorex Dynamic reacts instantly to the BMS or room thermostat signal and adjusts the flow accordingly. This provides constant and precise thermal comfort under all conditions.

When installed and pre-set, the total flow control of the Ballorex Dynamic valve enables a perfect terminal unit balance under all conditions and eliminates expensive commissioning.



Measuring of actual flow for precise pre-setting

Ballorex Dynamic is unique, as it makes direct measuring of the actual flow possible. Common valves normally measure a differential pressure assuming that the design flow is reached – but no actual flow measuring is performed.

Direct measuring of the actual flow using a Ballorex Dynamic is made possible by the built-in Venturi nozzle. The Venturi nozzle provides a fixed Kv measuring value and the highest measuring accuracy available, ensuring a low $\pm 3\%$ tolerance.

The Ballorex Dynamic is precisely pre-set using a differential pressure flowmeter to measure the actual flow, while setting the valve to the exact required flow rate.

Direct measuring of the actual flow enables not only a precise pre-setting of the Ballorex Dynamic, it also provides the possibility of performing flow verification and documentation at any time.

In case of system maintenance and service the direct flow measuring can also help identifying possible system errors.

Flexible installation and easy service

The installation of Ballorex Dynamic is very flexible as the valve can be installed in any position, and directly onto bends, reducers, or flex-pipes without straight piping before and after the valve. Only the flow direction through the valve must be respected.

Ballorex actuators are waterproof and can therefore also be installed upside down for easy access etc.

The Ballorex Dynamic cartridge can be completely removed for easy system flushing and service. After the flushing procedure is completed, the cartridge is re-installed and the valve is pre-set, ready for use – no commissioning required.



Ballorex Dynamic

PICV - Pressure
Independent Control Valve
DN 15 - 50 (and DN 65 - 150)



Complete line of balancing technologies

Ballorex is a complete range of balancing valves, covering all technologies from manual balancing valves, differential pressure control valves, to pressure independent control valves. A variety of different connections, insulation shells and accessories are also available.

The innovative Ballorex design is continuously being developed to make installation, balancing, and operation easier and faster, for improved end-user comfort and energy cost-savings.

To ensure long-life performance, all Ballorex valves are produced within EU according to ISO quality standards.

Ballorex valves are provided with an extensive support package of online technical catalogue information, apps, valve sizing software, and technical assistance.

For more information go to
www.ballorex.com

Ballorex Venturi

Fixed Venturi nozzle
DRV - Double Regulating Valve
DN 15 - 50 and DN 65 - 600



Ballorex Delta

DPCV - Differential
Pressure Control Valve
DN 15 - 50 and DN 65 - 80



Ballorex Vario

Variable orifice
DRV - Double Regulating Valve
DN 15 - 50



Ballorex Dynamic

- Ballorex Dynamic provides total flow control and eliminates commissioning
- Ballorex Dynamic enables a unique direct measuring of the actual flow for precise pre-setting and flow verification
- Ballorex Dynamic can be installed in any position and without straight piping for perfect flexibility and easy installation



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