

Ballorex

Precision made easy

Ballorex Venturi

Double Regulating Valve



BROEN

INTELLIGENT FLOW SOLUTIONS

Balancing of heating and cooling systems



Ballorex Venturi is a new generation double regulating valve for balancing of heating and cooling systems. The balancing performed ensures an evenly distributed water flow within individual risers and terminal units. Applications are typically central heating, or cooling systems, as well as fan coil units in multi-storey or high-rise buildings.

The innovative Ballorex Venturi design is compact with flow measuring, pre-setting, and isolation function – all in one unit. The product range comprises valves from sizes DN 15 - 50 manufactured in dezincification resistant brass (DZR), to valves sizes DN 65 - 600 manufactured in steel.

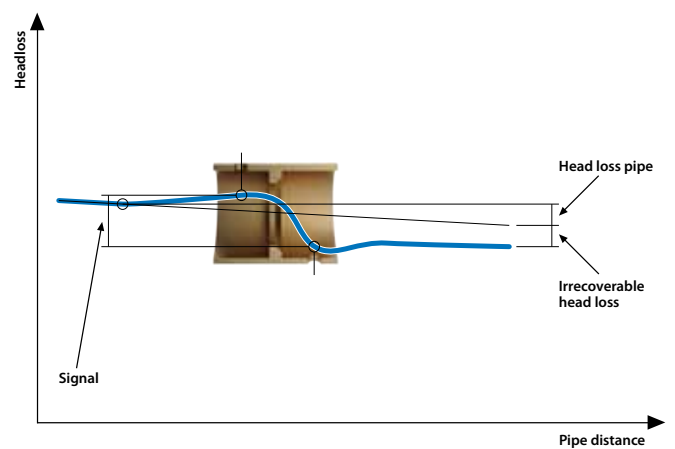
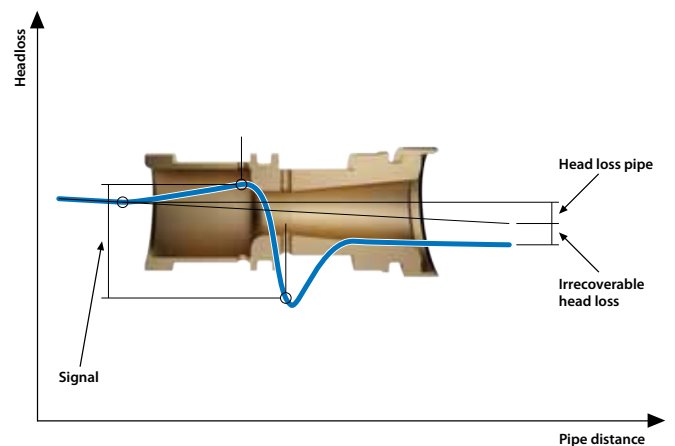


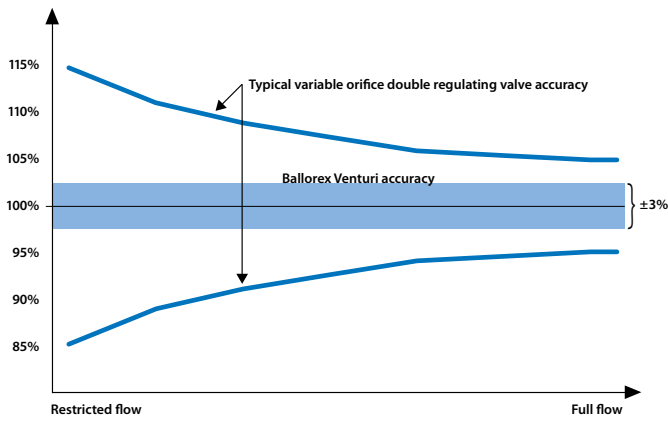


Perfect balance with Venturi measuring

Ballorex Venturi utilizes the well-known Venturi principle according to which the flow is measured by the pressure difference created through a fixed Venturi nozzle. This generates a high differential pressure signal for optimum flow measuring.

Ballorex Venturi provides a measuring signal up to 10 times higher than a common fixed or variable orifice valve at the same pressure drop across the valve.





Ballorex Venturi has a consistent measuring tolerance of only $\pm 3\%$ compared to common balancing valves having a variable measuring inaccuracy of up to $\pm 15\%$ depending on the valve setting.

The superior measuring accuracy of the Ballorex Venturi ensures exact balancing of heating and cooling systems for improved energy efficiency. The consistent and superior measuring accuracy makes Ballorex Venturi the most accurate balancing valve in the market.



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Pre-setting of a Ballorex Venturi valve is done using an Allen-key. When the pre-setting is completed and the Allen-key removed, the setting is locked. The pre-setting and the isolating function of the Ballorex Venturi operate independently, unlike common balancing valves. The system flow can therefore be isolated without changing the setting.

Because of the Ballorex Venturi design, pre-setting and service are completed fast, easily, and safely.

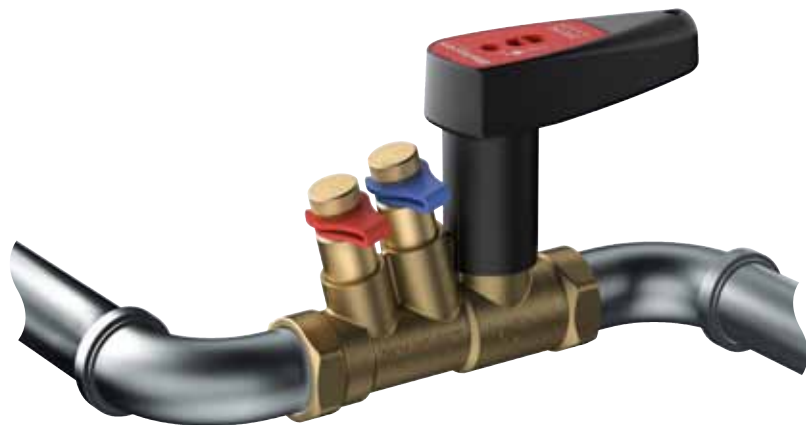
Flexible installation with Venturi

Unlike all other common balancing valves the Ballorex Venturi valves does not need 3-5 x DN straight piping before and after the valve. This is possible as the built-in Venturi nozzle ensures linear water flow for measuring. The installation of Ballorex Venturi valves can therefore be done straight onto bends, reducers, or flex-pipes etc. Ballorex Venturi can also be installed in any 360 position needed, without affecting the measuring, pre-setting, or operation of the valve.

The perfect flexibility of the Ballorex Venturi makes installation easy – even in confined spaces.

Venturi makes balancing fast and easy

As Ballorex Venturi flow measuring is done by use of the built-in Venturi nozzle, only one Kv measuring value is valid for each valve size. This is a distinct advantage, as pre-setting and measuring can be done simultaneously – making balancing fast and easy. In comparison common balancing valves measure across a variable valve seat causing the Kv-value to change every time the setting is changed – making pre-setting and balancing difficult and more time consuming.



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 *Dynamic*

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



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 Venturi

- Ballorex Venturi provides the highest measuring accuracy available for precise balancing and improved energy efficiency
- Ballorex Venturi has only one Kv measuring value per valve size, for faster, easier and more cost efficient balancing
- Ballorex Venturi can be installed in any position and without straight piping for perfect flexibility and easy installation



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