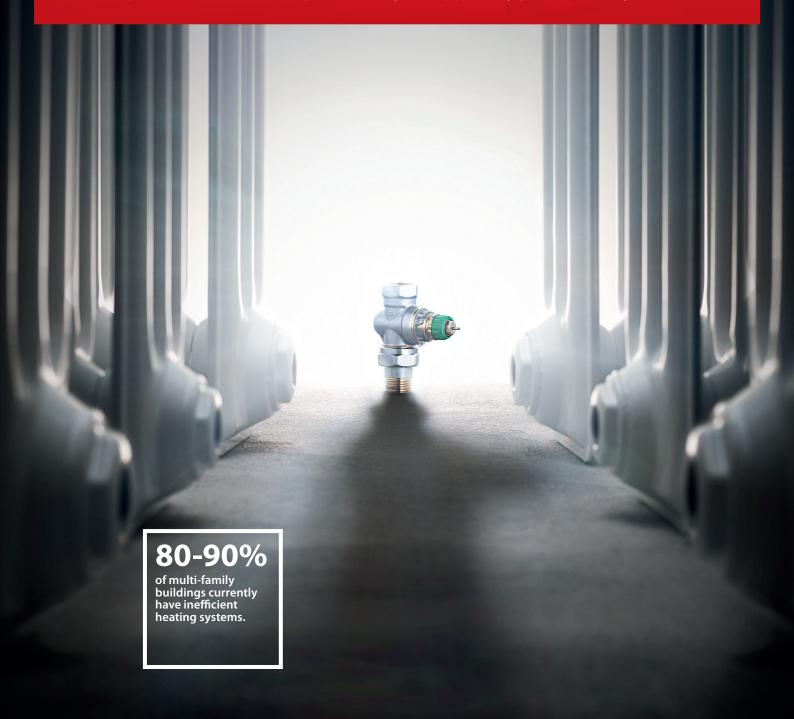
ENGINEERING TOMORROW



Danfoss Dynamic Valve™

The simple solution to efficient heating

Optimal temperature control and automatic hydronic balancing for two-pipe heating systems – all in a single valve.



Creating a perfectly balanced system

Unbalanced heating systems are a constant cource of tenant complaints and costly maintenance. Noisy radiators, uneven heat distribution, excessive heating bills and energy waste are all consequences of nefficient and wasteful systems.

With *Dynamic Valve*™, Danfoss gives you the ability to simply and cost-effectively solve these issues while increasing tenant satisfaction

Automatic hydronic balancing

Combining a radiator thermostat and an automatic hydronic balancing valve in a single product enables you to significantly increase the efficiency of two-pipe heating systems.

Both designers and installers will find Dynamic Valve™ simple to work with. Installation and commissioning are achieved without noticeable inconvenience to your tenants. Once installed, the valve ensures constant hydronic balancing, 24 hours a day, 365 days a year.

The valve permanently optimizes the heating system in terms of accurate room temperature control. It also provides automatic hydronic balancing during unexpected system resistance, changing occupant behavior or fluctuations in weather conditions. What's more, individual tenants are unable to disturb the system balance, resulting in fewer complaints and costly service visits.



A specific solution to a specific need

Especially designed for two-pipe heating systems, *Dynamic Valve™* fits well into new buildings. But it is particularly wellsuited to renovation and retrofitting projects involving apartment buildings, schools, office buildings, nurseries and many other applications.

It features a built-in pressure controller that constantly adapts to changing system conditions and automatically limits the volume of water passing through it. Flow is set at the valve on a simple 1-7+N scale, corresponding to a range from 25-135 l/h.

Once installed on all radiators and correctly set, the valve automatically ensures permanent hydronic balancing throughou the heating system, with all its benefits.

Simplicity and effectiveness combined
The beauty of *Dynamic Valve*[™] is that it
offers all the advantages of automatic
hydronic balancing and accurate

nydronic balancing and accurate emperature control, combined into a ingle valve.

As well as even heat distribution with faster start-up times, the valve ensures highly accurate individual room temperature control. Energy efficiency is increased and pump settings can easily be optimized. This results in increased comfort and reduces energy waste and costs.

Your benefits

- Fast, consistent and comfortable heating
- Increased efficiency and reduced cos
- Reliable and silent heating
- · Minimal disturbance during renovation

The benefits of automatic balancing

Creating an automatically balanced heating system increases comfort by delivering even heat with faster start-up times and consistent temperatures. It also eliminates noise, increases energy efficiency and reduces costs.

Danfoss offers two possible solutions in automatic balancing. For apartment buildings with high pump heads the well-proven, riser-fitted ASV solution is the best option. For buildings with a pump head capacity of up to 6 meters (60 kPa), the radiatormounted *Dynamic Valve*™ delivers the same benefits with a realistic payback time.

Both *Dynamic Valve*[™] and ASV are part of the Danfoss Renovation⁺ concept for renovations or retrofitting in existing multi-family buildings.



Choosing the correct sensor for your project

Dynamic Valve[™] is available in all the most commonly used sizes and configurations. With a flow range of 25–135 l/h, it is compatible with the majority of radiator design flows.



RAW

When price is important, liquid-filled Danfoss RAW sensors offer an excellent performance.



Because the valve uses the well-known

a wide range of sensors. Your individual

project requirements will determine the

best choice.

RA sensor connection, you can choose from

RA 2920

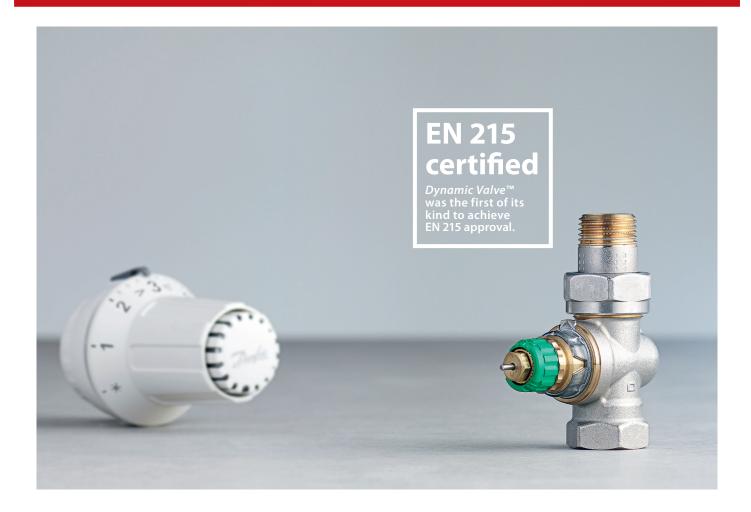
For public buildings or other 'heavy-duty' situations the tamper proof sensor provides a robust solution.



Danfoss Eco™/ Danfoss Link™ Connect

The stand-alone *Eco*™ or wireless Connect programmable thermostats can be used to increase energy savings.





A proven solution

Although *Dynamic Valve*™ is a recent product, we already have a great deal of evidence of its practical effectiveness and reliability via the many heating systems it has been installed in so far.

The valve's innovative technical construction solves or prevents noise and uneven heat distribution issues in a simple way and to the full satisfaction of users.

Experience *Dynamic Valve*TM for yourself

To find out more about *Dynamic Valve*[™], speak to your installer, your usual Danfoss contact, or visit our website.

The future of automatic hydronic balancing is here – find out more today

dynamic.danfoss.com

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