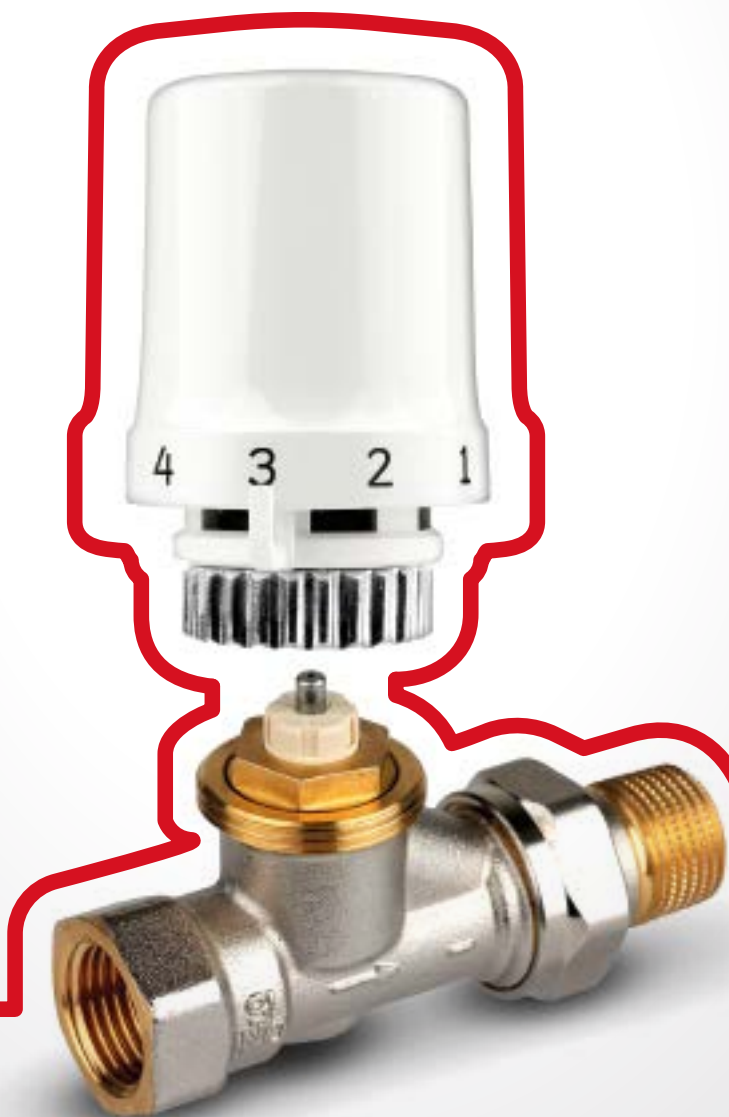




**Introducing the new  
Thera-6 and V2000SX range**

# Continuous performance



## Introducing the Thera-6 head and V2000SX valve range

Designed to transform the performance, efficiency and reliability of home heating systems, our new range of thermostatic valves and heads offer the one-fits-all solution that stockists, specifiers and installers need.

Continuous flow  
control for life.  
**Guaranteed.\***

Built in Europe by a company with over 45 years of TRV manufacturing expertise, this range promises **unrivalled style and engineering**. In fact, we're so confident of the quality of our products, we've **guaranteed them for life.\***

But premium quality doesn't have to come at a price. The range represents **excellent value for wholesalers, specifiers and customers alike**.

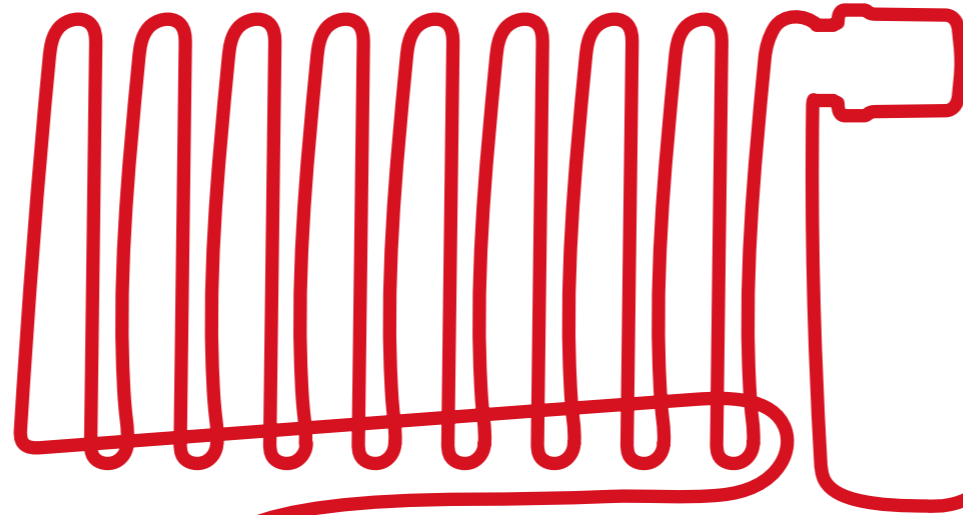
In introducing this new, versatile range, we've made stocking and specification simpler too. Not only are the products designed to fit at least **90% of radiator applications**, a more tailored product line means **significantly fewer SKUs** to stock, select and supply.

By adding this multipurpose, quality range of valves and heads to our portfolio, now all your customers' heating system needs are covered under one trusted brand.



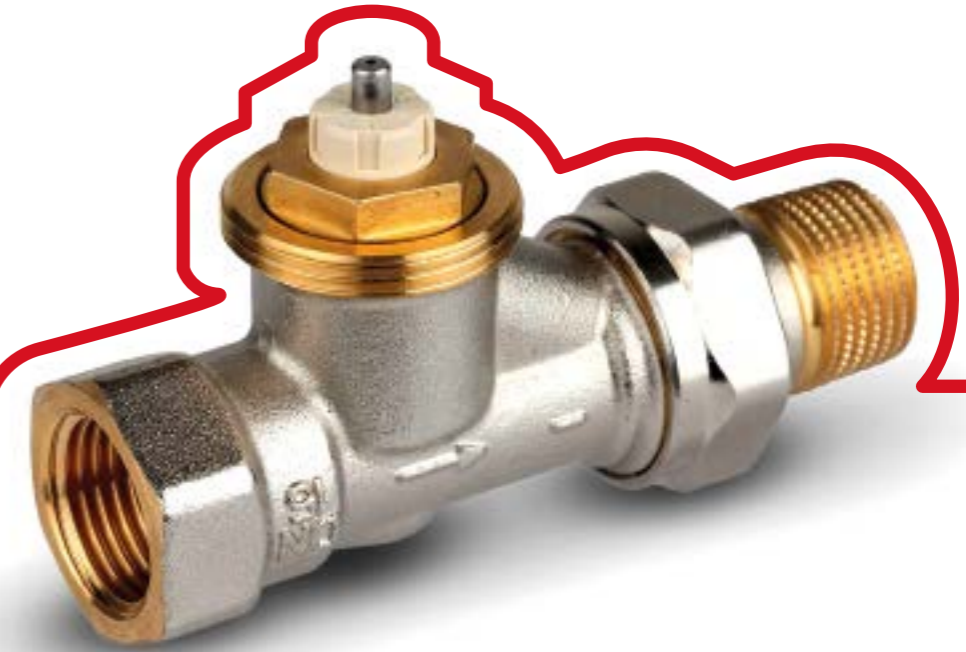
## Thera-6 TRV head Good looks that last

The Thera-6 universal-use thermostatic radiator head is both stylish and sturdy.



## V2000SX valve range Fit for all occasions

The V2000SX thermostatic radiator valve range is truly multi-purpose, fitting at least 90% of radiator applications. A bi-directional flow feature adds to its versatility.



## One high quality valve for 90% of applications

Not only is it amazingly compact and beautifully designed, it has been rigorously engineered and tested for durability, making it an ideal choice for residential heating applications. Its high control accuracy rating means it also meets the highest energy efficiency standards of the new EN 215.

As well as being built to last with premium quality materials, the radiator head is supported by a lifetime guarantee.\*

### KEY FEATURES

- Modern, minimalist compact design
- Premium German-made sensor
- Durable design with non-yellowing plastic shell
- Best energy efficiency rating (to revised EN 215)
- High-stroke variant for augmented flows or narrow p-band design
- Range locking
- Closed handle to prevent dust accumulation

Packed with a variety of flow rate presets and covering a host of patterns and connection types, the V2000SX is perfect for every installation from new builds to retrofit projects. And now with one V2000SX range, stocking and selecting the right valves has never been easier.

Tested beyond the requirements of applicable European quality standards with a strong spring and Resideo's proven double O-ring sealing design, it's designed with durability in mind. Our confidence in the V2000SX range means we're able to offer a lifetime guarantee.\*

### KEY FEATURES

- Bi-directional flow
- 20-170 kg/h nominal flow with standard head
- 20-210 kg/h nominal flow with high stroke head
- Proportional flow control
- Easy pre-setting to one of 6 setting values
- 36 different patterns, sizes and connections
- Standard M30 x 1.5 head connection

# Thera-6 thermostatic radiator valve (TRV) head

The compact, energy-efficient Thera-6 thermostatic radiator heads are self-actuating controllers, regulating the flow of hot water through thermostatic radiator valves to continuously control the room temperature to the set-point selected on the head.

## APPROVALS

- EN 215
- Keymark
- TELL A



## METHOD OF OPERATION

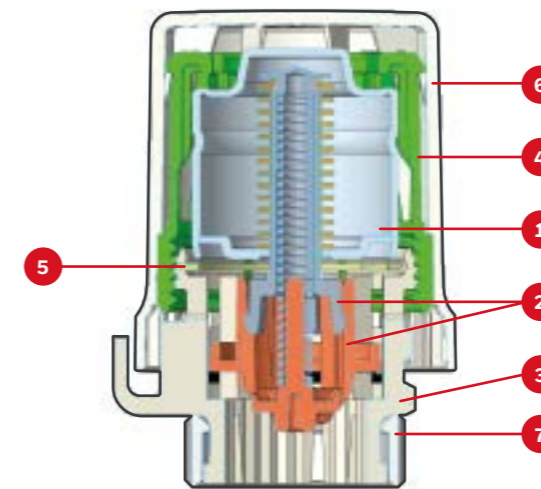
Through the thin shell of the head, the liquid-filled thermal expansion element responds to changes in the ambient temperature. This thermal expansion is transmitted onto the axis of the thermostatic valve by a frictionless mechanism. This means that the head continuously adjusts the flow of the heating water to the radiator, maintaining the room temperature at the setpoint.

Thanks to the quality of the expansion sensor and the construction of the head, the head achieves the best control accuracy class per EN 215.

The temperature setpoint can be selected by rotating the handle. The head has a built-in overstroke compensation mechanism, which protects it and the valve from excessive force when the head is closed and the room temperature is high.

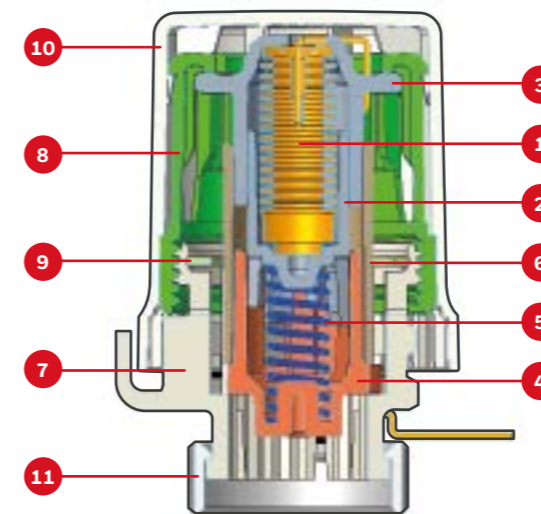
## CONSTRUCTION

### Heads with built-in sensor



Components	Materials
1 Thermal expansion element	Steel, copper bellows, filled with ethyl acetate
2 Over-temperature compensating assembly with spring	PA6GF30 and spring steel
3 Socket	PA6GF30, white RAL 9016
4 Structural cage	PA6GF30
5 Spring ring	Spring steel
6 Handle	ABS, white RAL 9016
7 Coupling nut	Brass, nickel plated

### Heads with remote sensor



Components	Materials
1 Thermal expansion element with sensor bulb and capillary	Copper bellows, stainless steel capillary and bulb (bulb nickel plated), filled with ethyl acetate
2 Bellows casing with snaps	PA66 GF33
3 Bellows holder	POM
4 Stem guide	PA66 GF33
5 Over-temperature compensating spring	Spring steel
6 Alignment sleeve	PC
7 Socket	PA6GF30, white RAL 9016
8 Structural cage	PA6GF30
9 Scale ring	Spring steel
10 Handle	ABS, white RAL 9016
11 Coupling nut	Brass, nickel plated
12 Wall mounting bracket for bulb incl. attachment hardware (not shown)	ABS, white RAL 9016

## TECHNICAL DATA

Connection to valve body	
Standard	M30 × 1.5 thread
Danfoss	Snap connection RA valves
Herz	M28 × 1.5 thread
Connection to valve body	
Specific stroke – standard heads	0.22 mm/K
Specific stroke – T3019HF high-flow head	0.35 mm/K
Closing force	90 N
Min. operating ambient temperature:	40 °C (including when thermostat is set to 0)

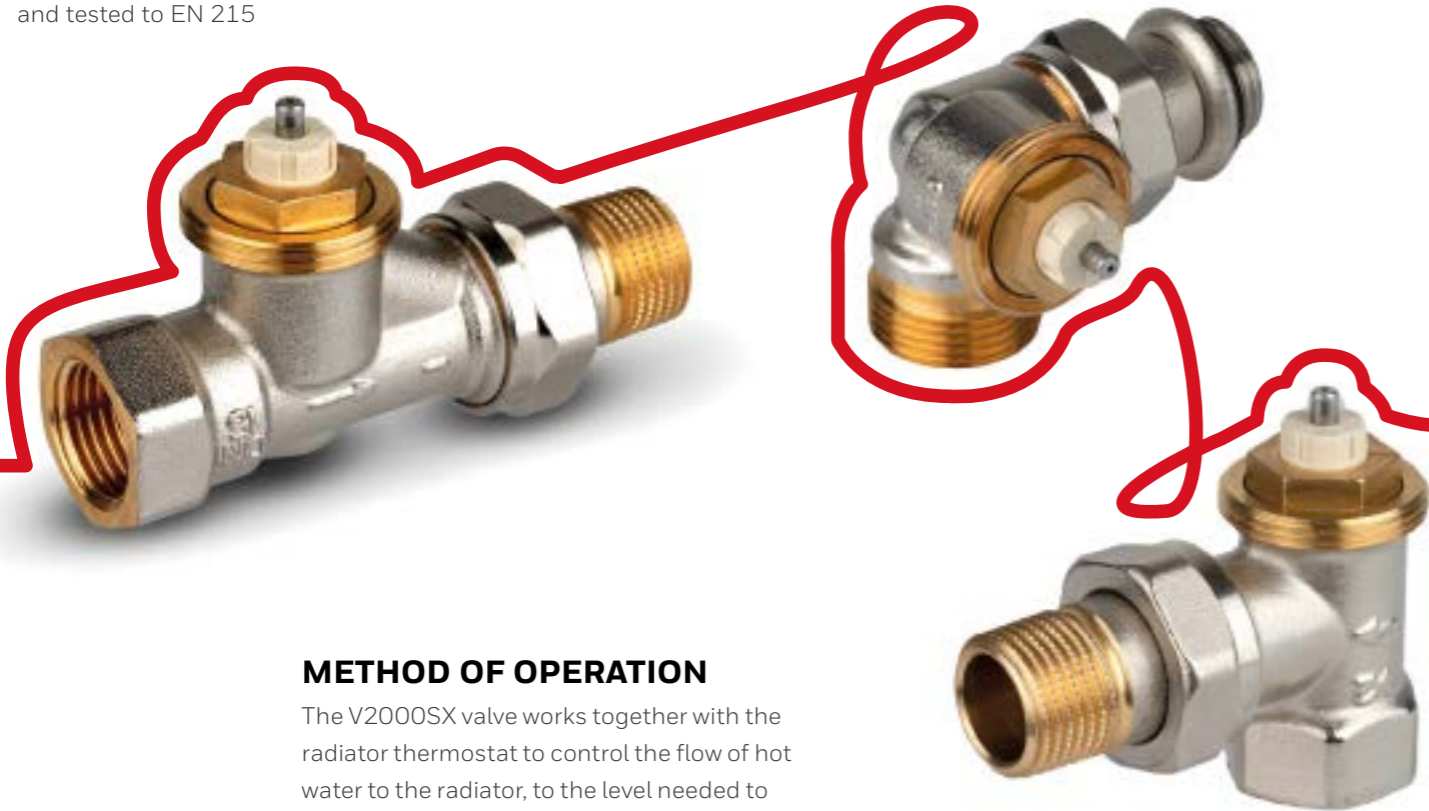


# V2000SX standard thermostatic valve

This range of pre-settable thermostatic radiator valves with a standard flow range is designed to balance almost all pumped two-pipe heating and cooling systems. It is recommended to fit them at the supply of a radiator, but fitting the valves at the return of the radiator is also possible.

## APPROVALS

Keymark certified and tested to EN 215



## METHOD OF OPERATION

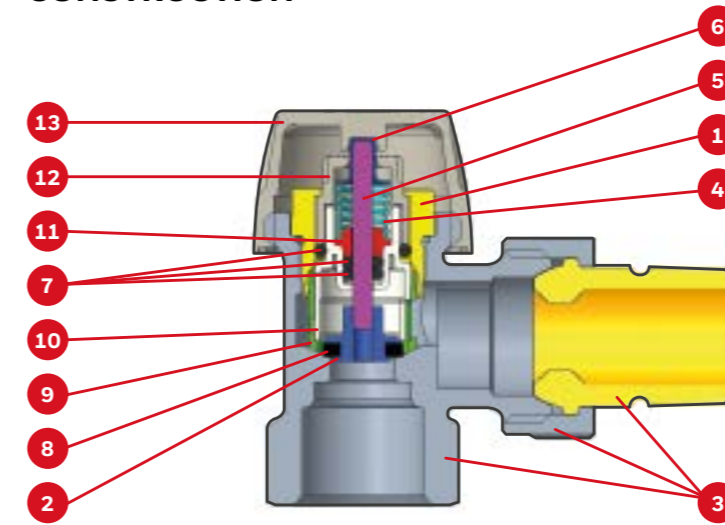
The V2000SX valve works together with the radiator thermostat to control the flow of hot water to the radiator, to the level needed to maintain the temperature setpoint.

The valve is optimized for typical radiator heating applications, providing a proportional increase of flow with the head stroke to enable continuous control of room temperature. The low-friction, double-sealing o-ring design, strong restoring spring, precision parts and automated assembly, combine to guarantee accurate flow control and long life of the valve.

The V2000SX valves have a pre-setting facility to adjust the maximum flow to balance the heating circuit. A setting dial at the top of the valve, with six clearly visible values and a distinct setting reference mark, are designed to enable quick valve regulation, even in poor visibility conditions. By rotating the dial, the maximum flow limiting orifice is selected.

The V2000SX valves are suitable for system design with 1K to 2K p-band control range. In combination with the T3019HF and T6001HF thermostatic heads with high specific stroke, the V2000SX valves can be used for narrow-band temperature control with just 0.5K p-band, further improving comfort and energy efficiency.

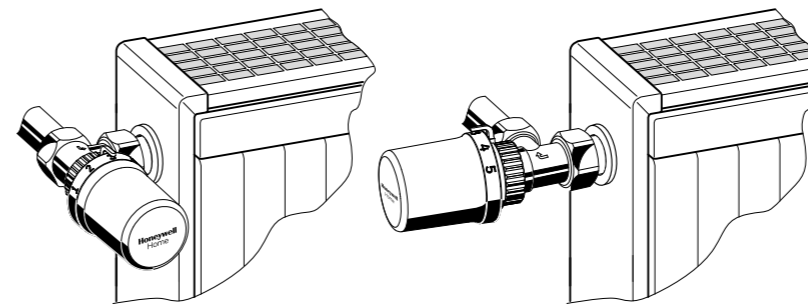
## CONSTRUCTION



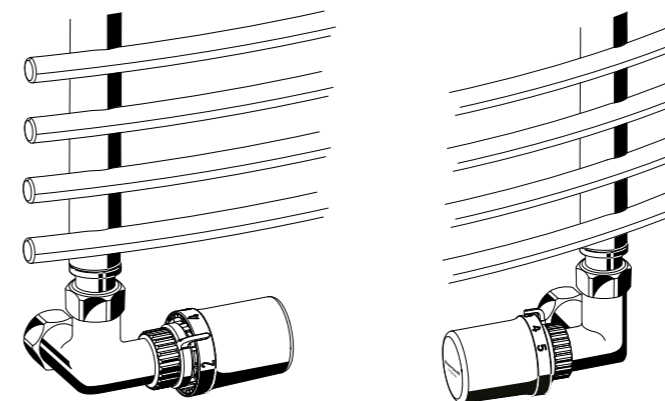
Components	Materials	
1	Insert cartridge	
2	Plunger	Brass
3	Valve body, tailpiece, nut	
4	Return spring	
5	Spindle	Stainless steel
6	Spindle cap	
7	O-rings	EPDM 70
8	Plunger seal	EPDM 70
9	Orifice casing	PPS GF40
10	Setting screen	PPS GF40
11	Retaining bushing	PBT GF30
12	Setting dial	PBT GF30
13	Protection cap	PP GF10

## INSTALLATION

The V2036ESX valve can be used in multiple installations, rotating the valve to allow the Thera-6 head to point in the plane of the radiator or perpendicular to the radiator.



Also, the V2036RSX right corner valve can be rotated for use in a left corner installation, equally, the V2036LSX left corner valve can also be rotated for use in a right corner installation.



## TECHNICAL DATA

Media	
Medium	Water or water-glycol mixture, quality to VDI 2035
pH value	8–9.5
Connections / sizes	
Body-head connection	M30 × 1.5
Sizes	DN10, DN15, DN20
Pressure values	
Max. operating pressure	PN10, 10 bar (1000 kPa)
Max. differential pressure	1.0 bar (100 kPa)
Differential pressure recommended for quiet operation	≤0.2 bar (20 kPa)
Flow rates	
Nominal flow range	20–170 l/h
Max. nominal flow at 10 kPa (EN 215) – standard head	170 l/h ± 10 %
Max. nominal flow at 10 kPa (EN 215) – high-stroke head	210 l/h ± 10 %
Specifications	
Closing dimension	11.5 mm
Factory setting	Position 6
Identification	
Ivory colour protection cap with embossed 'SX' on the top. Ivory colour plastic dial on the top of valve insert.	

# Ranges

## V2000/V2020

Bodies with internal threads and metal-to-metal sealing radiator tailpieces.



Body type	DN	EN 215 certified	Q <sub>nom</sub> range with std. head	Pipe connection	OS-No.
<b>E - Angled</b> per EN 215 <b>D</b> -Series	10	•	20-170kg/h	Rp 3/8"	V2000ESX10
	15	•	20-170kg/h	Rp 1/2"	V2000ESX15
	20	•	20-170kg/h	Rp 3/4"	V2000ESX20
<b>D - Straight</b> per EN 215 <b>D</b> -Series	10	•	20-160kg/h	Rp 3/8"	V2000DSX10
	15	•	20-170kg/h	Rp 1/2"	V2000DSX15
	20	•	20-170kg/h	Rp 3/4"	V2000DSX20
<b>B - Straight</b> with <b>bent</b> tailpiece	15		20-170kg/h	Rp 1/2"	V2000BSX15
<b>E - Angled</b> per EN 215 <b>F</b> -Series	10	•	20-170kg/h	Rp 3/8"	V2020ESX10
	15	•	20-170kg/h	Rp 1/2"	V2020ESX15
	20	•	20-170kg/h	Rp 3/4"	V2020ESX20
<b>D - Straight</b> per EN 215 <b>F</b> -Series	10	•	20-160kg/h	Rp 3/8"	V2020DSX10
	15	•	20-170kg/h	Rp 1/2"	V2020DSX15
	20	•	20-170kg/h	Rp 3/4"	V2020DSX20
<b>A - Axial</b>	10		20-160kg/h	Rp 3/8"	V2000ASX10
	15		20-160kg/h	Rp 1/2"	V2000ASX15
<b>L - Double Angle (Corner) Left</b>	10		20-160kg/h	Rp 3/8"	V2020LSX10
	15		20-160kg/h	Rp 1/2"	V2020LSX15
<b>R - Double Angle (Corner) Right</b>	10		20-160kg/h	Rp 3/8"	V2020RSX10
	15		20-160kg/h	Rp 1/2"	V2020RSX15

## V2026

Bodies with external threads and metal-to-metal sealing radiator tailpieces.



Body type	DN	EN 215 certified	Q <sub>nom</sub> range with std. head	Fitting connection thread	OS-No.
<b>E - Angled</b> (A - Axial when flipped)	15		20-170kg/h	G 3/4"	V2026ESX15
<b>D - Straight</b>	15		20-160kg/h	G 3/4"	V2026DSX15

## V2030

Bodies with internal threads and soft sealing radiator tailpieces.



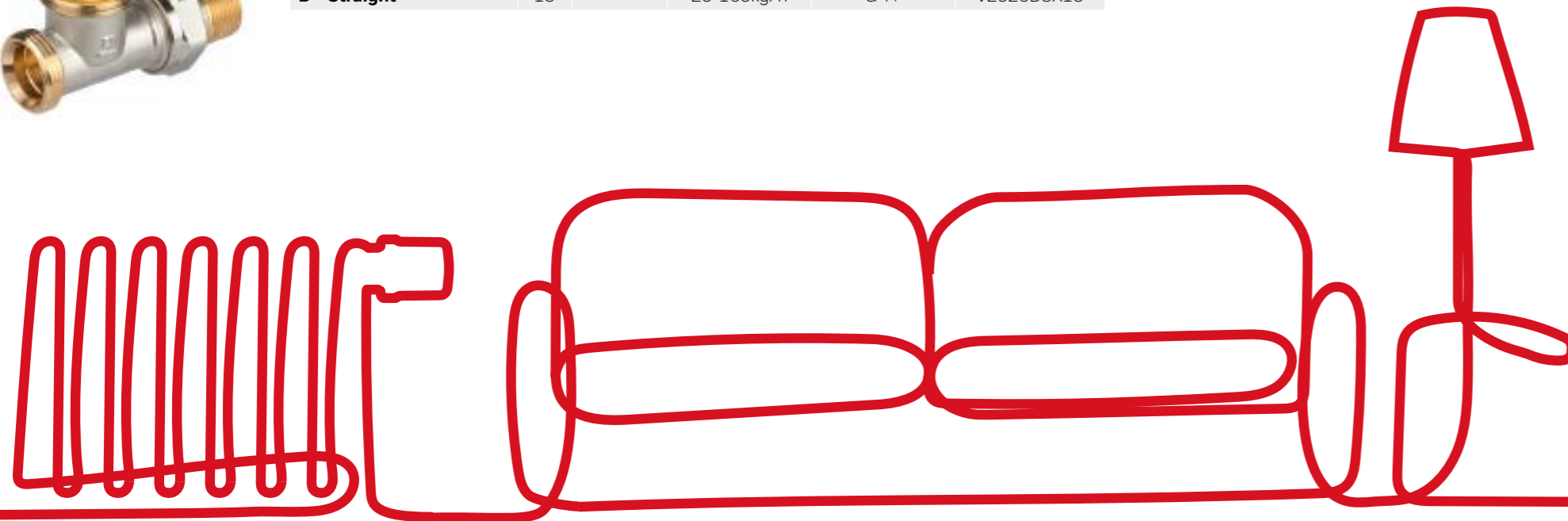
Body type	DN	EN 215 certified	Q <sub>nom</sub> range with std. head	Pipe connection	OS-No.
<b>E - Angled</b> per EN 215 <b>F</b> -Series	10	•	20-170kg/h	Rp 3/8"	V2030ESX10
	15	•	20-170kg/h	Rp 1/2"	V2030ESX15
<b>D - Straight</b> per EN 215 <b>F</b> -Series	10	•	20-160kg/h	Rp 3/8"	V2030DSX10
	15	•	20-170kg/h	Rp 1/2"	V2030DSX15
<b>A - Axial</b>	10		20-160kg/h	Rp 3/8"	V2030ASX10
	15		20-160kg/h	Rp 1/2"	V2030ASX15
<b>L - Double Angle (Corner) Left</b>	10		20-160kg/h	Rp 3/8"	V2030LSX10
	15		20-160kg/h	Rp 1/2"	V2030LSX15
<b>R - Double Angle (Corner) Right</b>	10		20-160kg/h	Rp 3/8"	V2030RSX10
	15		20-160kg/h	Rp 1/2"	V2030RSX15

## V2036

Bodies with external threads and soft sealing radiator tailpieces.



Body type	DN	EN 215 certified	Q <sub>nom</sub> range with std. head	Fitting connection thread	OS-No.
<b>E - Angled</b> (A - Axial when flipped)	15		20-170kg/h	G 3/4"	V2036ESX15
<b>D - Straight</b>	15		20-170kg/h	G 3/4"	V2036DSX15
<b>L - Corner Left</b>	15		20-160kg/h	G 3/4"	V2036LSX15
<b>R - Corner Right</b>	15		20-160kg/h	G 3/4"	V2036RSX15



**The new Thera-6 head and V2000SX valve range**

**Peace of mind for installers and homeowners**



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**For more information visit:**

[homecomfort.resideo.com/trv](http://homecomfort.resideo.com/trv)

Thera 6 / V2000 Product brochure.

\* The lifetime is 10 years (Thera-6) / 15 years (V2000SX range) from the product manufacturing date. The guarantee is subject to Resideo's detailed warranty policy and terms of sale.

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