

## DATA SHEET

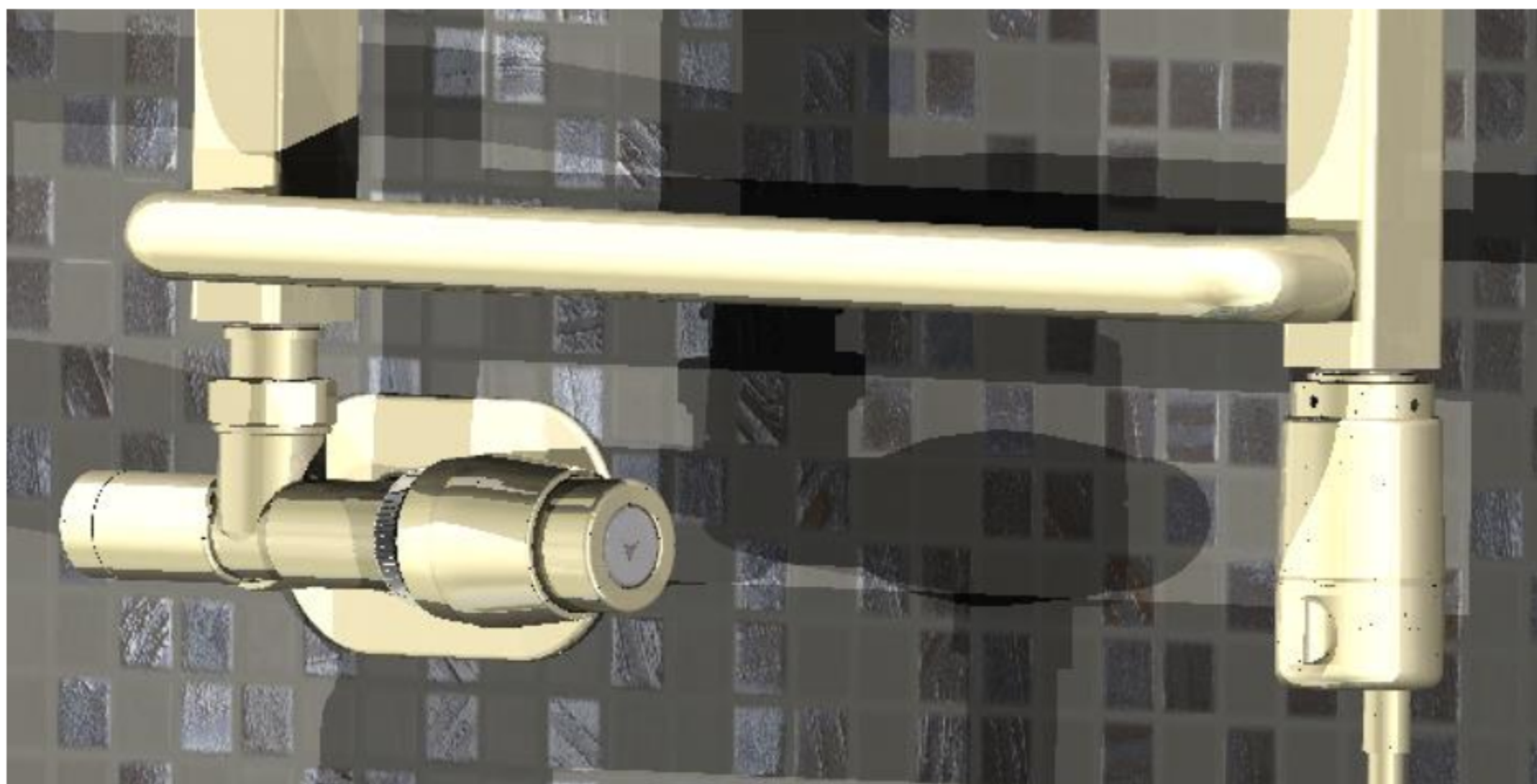
### UNICO RTL connection set



### APPLICATION

UNICO RTL connection set was specially designed for decorative and bathroom radiators with bottom connectors where distance between them is 50 mm. It allows application of an electric heater in the radiator that can be used in summer to heat it and as a dryer.

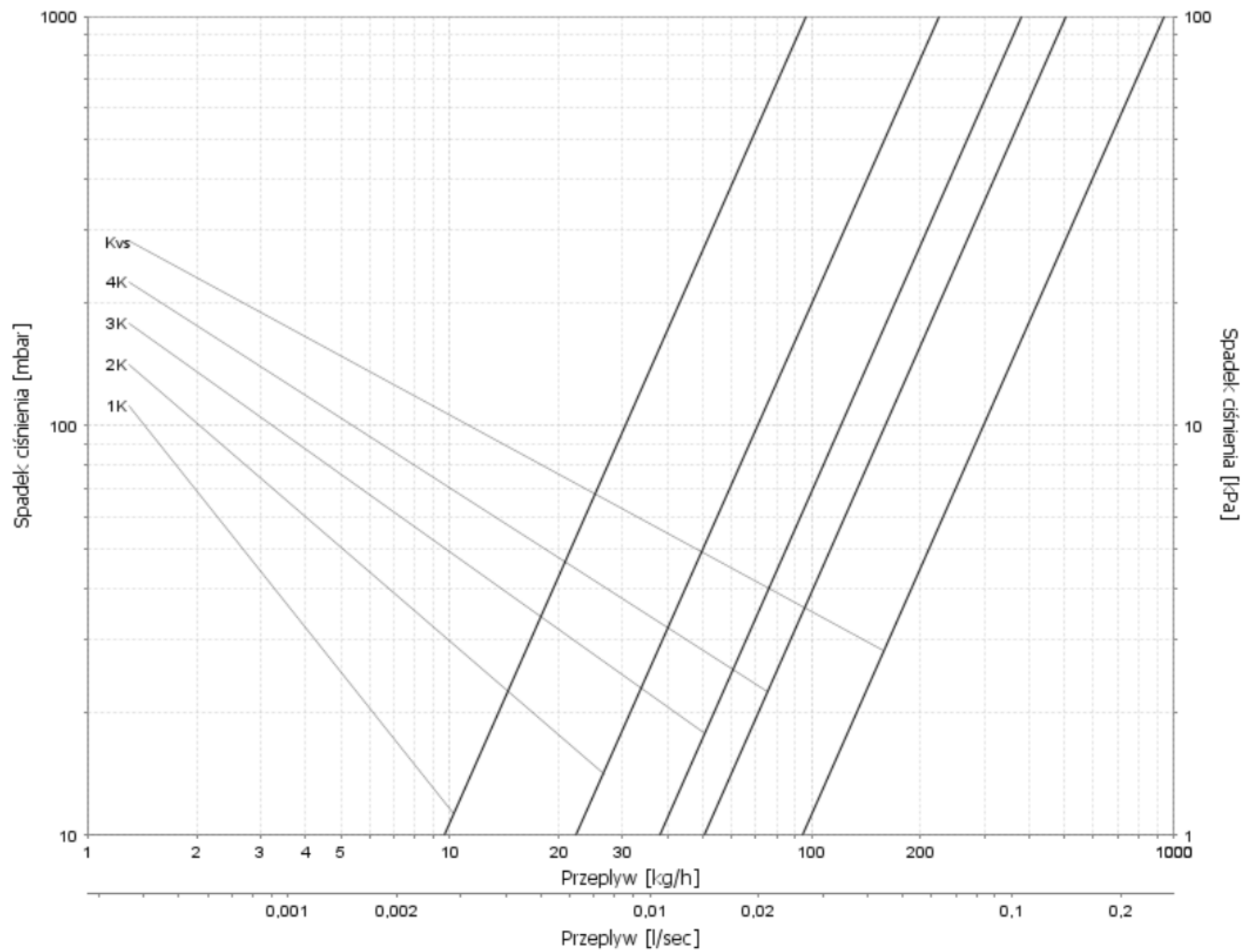
This system is used in order to limit the return temperature of the radiator or to regulate the temperature of small areas of the floor heating (15 m<sup>2</sup>). The set consists of a special UNICO RTL connection and the return temperature limiter Prestige RTL which enables control of the water in the radiator ranging from 10°C to 50°C regardless of the temperature in the room. TWINS RTL connection also features a cut-off of water function. TWINS RTL design allows installation beneath the radiator with a Prestige RTL head parallel to the wall, inside the outline of the radiator, which protects it from accidental damage.



## **SPECIFICATION**

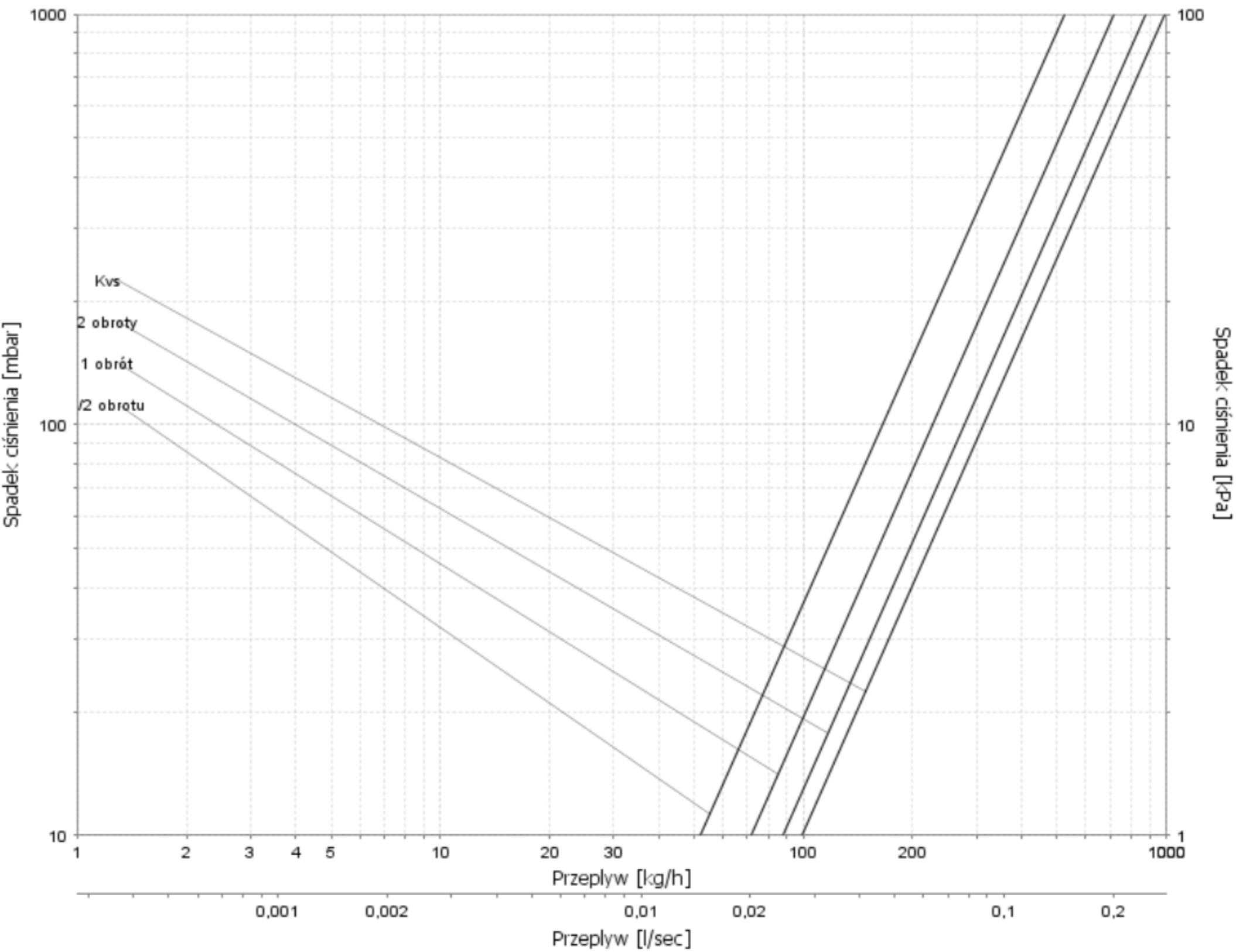
Working temperature	90 °C
Working pressure	10 bar (1 MPa)
Heating medium	water
Test pressure	1,5 MPa
Operating range	10 - 50 °C
Pressure drop max.	1 bar (0,1 MPa)

UNICO RTL valve flow diagram



Difference -P Flow factor	1K	2K	3K	4K	Kvs
h <sub>v</sub>	0,1	0,25	0,4	0,55	0,9
Tolerance	± 10%				

Flow diagram for UNICO connection (shut-off insert)

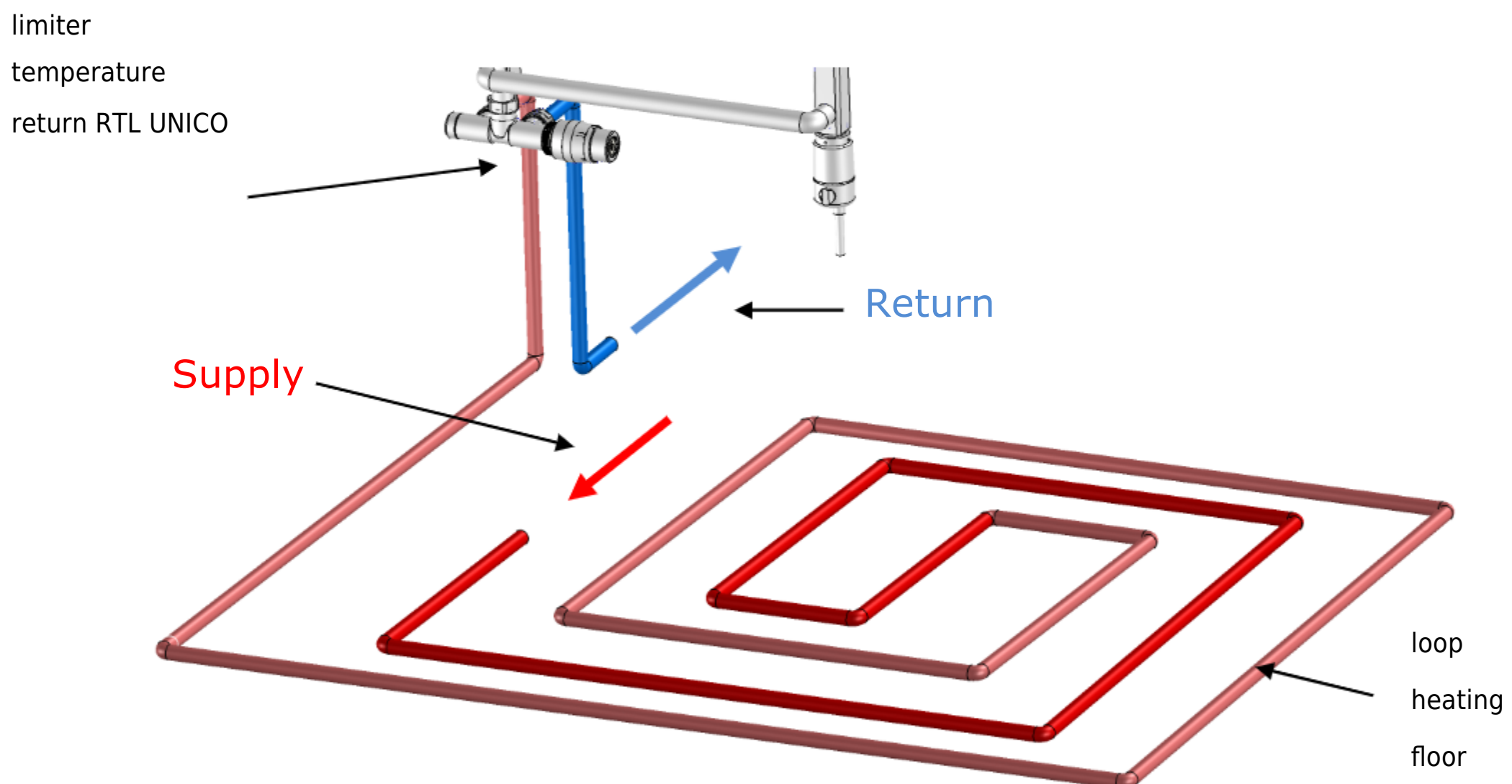


Kv value for a given number of turns				
Number of turns towards opening valve	1/2	1	2	Kvs
Kv	0,5	0,7	0,85	0,9
Tolerance	± 10%			

## Attention

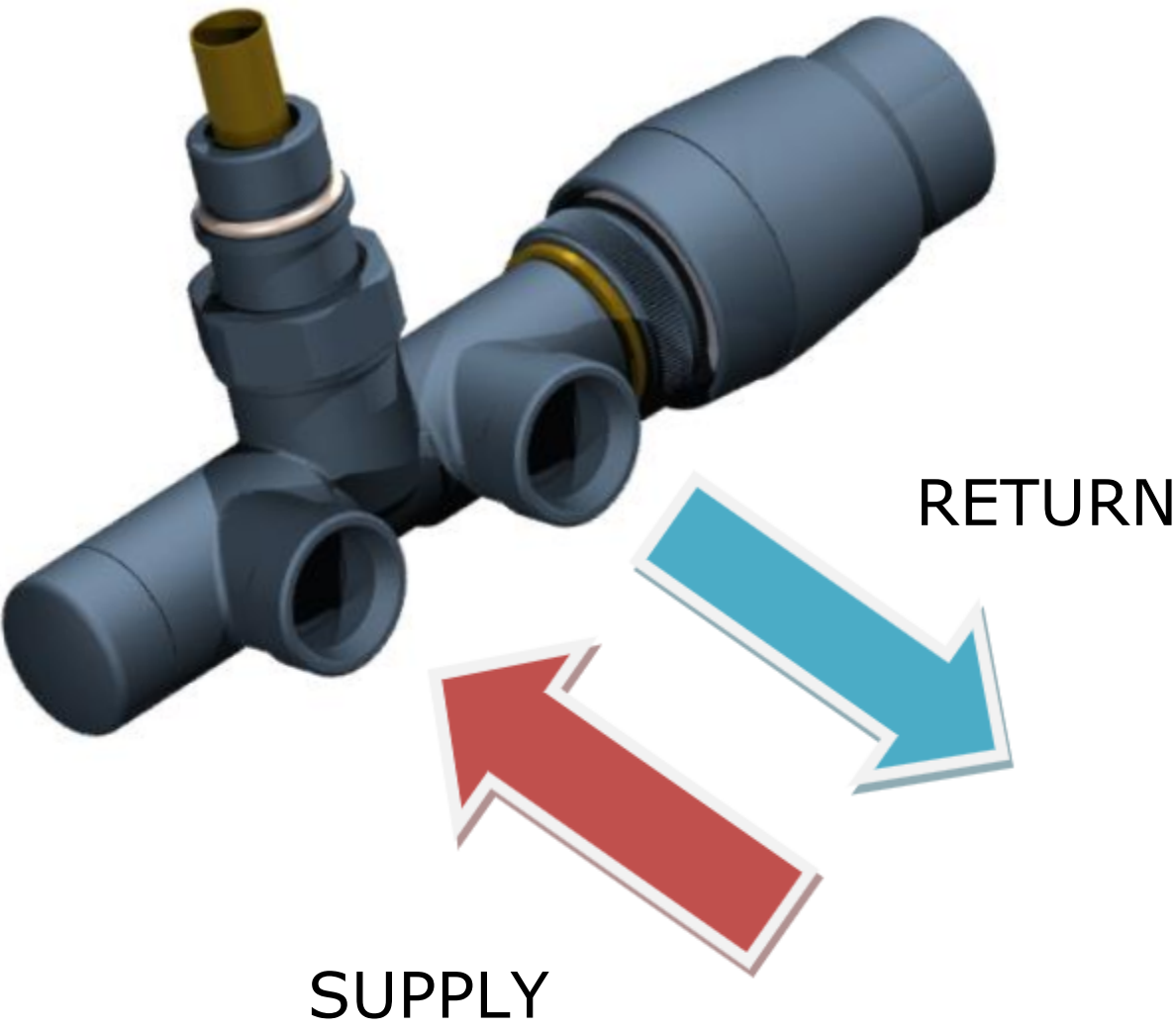
- RTL Prestige heads should be mounted from the return side (if the supply is on the right side, looking at the radiator, the RTL Prestige head should be on the left side).
- UNICO RTL connections are pre-set in the open position.
- Pre-setting of the UNICO RTL connection is via lockshield valve insert. To change the initial setting, you must first turn off the lockshield valve insert, and then, starting from the closed position turning left the exact number of rotations, unscrew the valve insert with a key. The method of presetting the return valve on the insert is a very convenient way to reduce the flow and is recommended by the manufacturer.

### The correct installation connections for installation UNICO RTL:

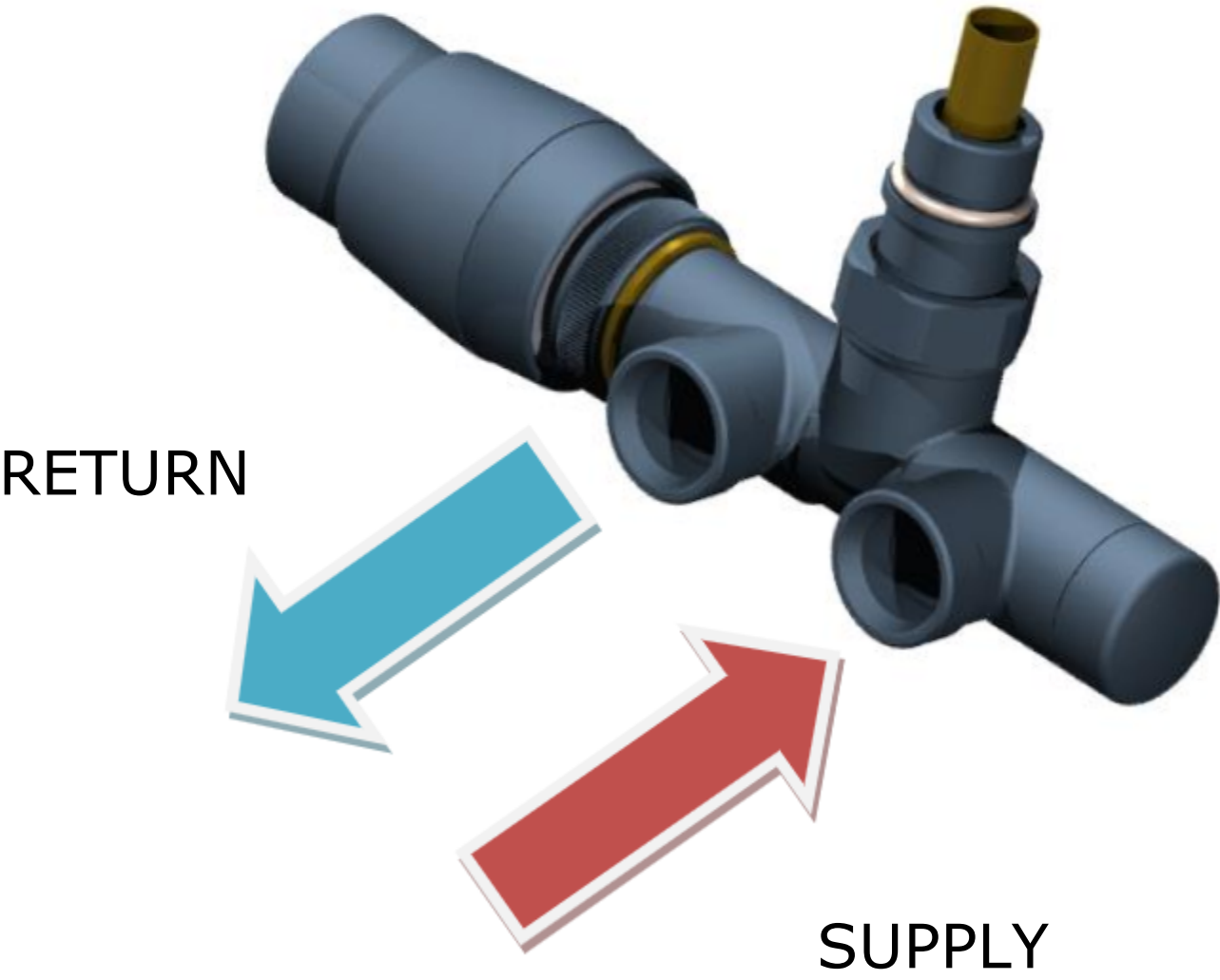




- LEFT version

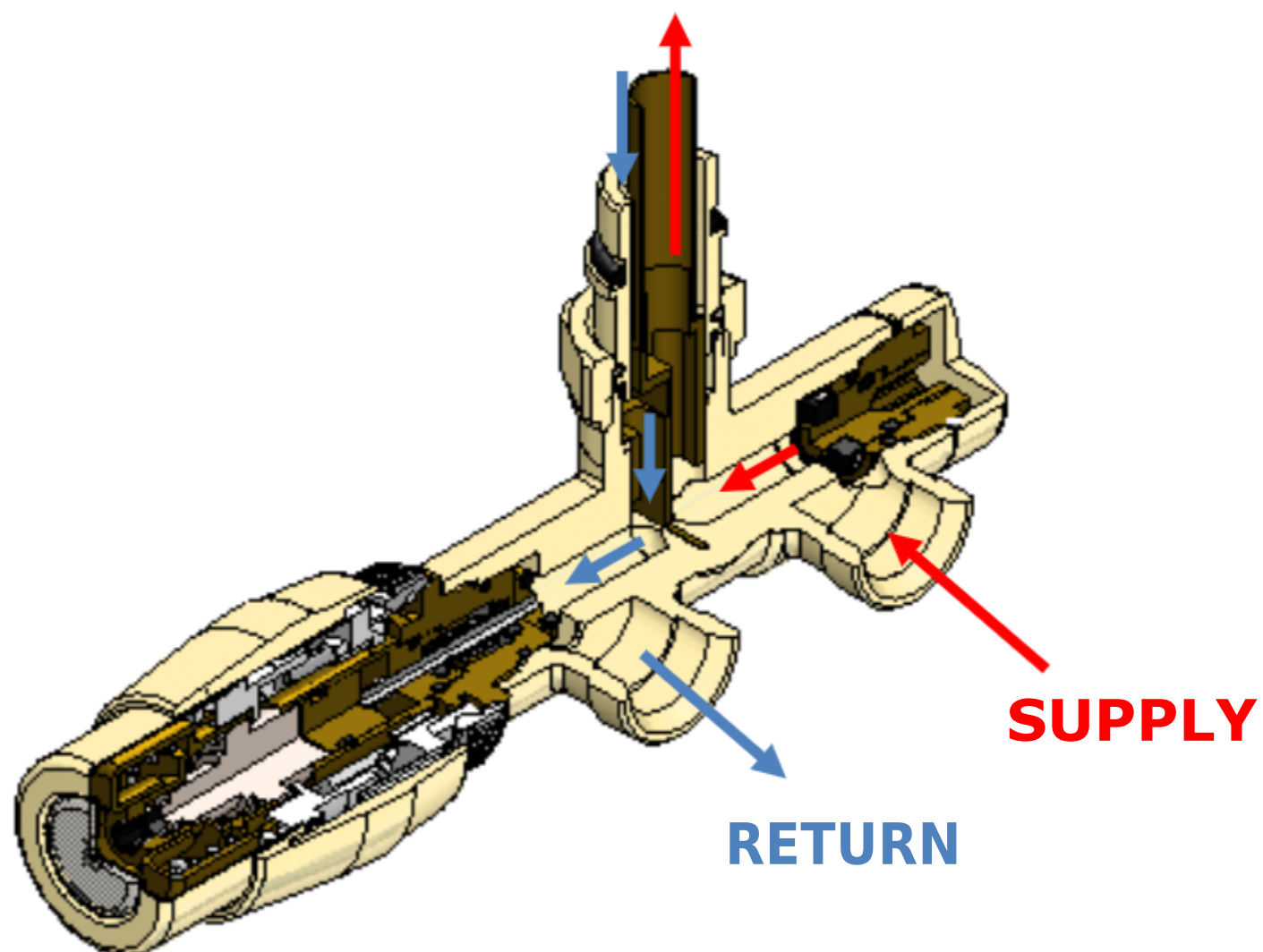
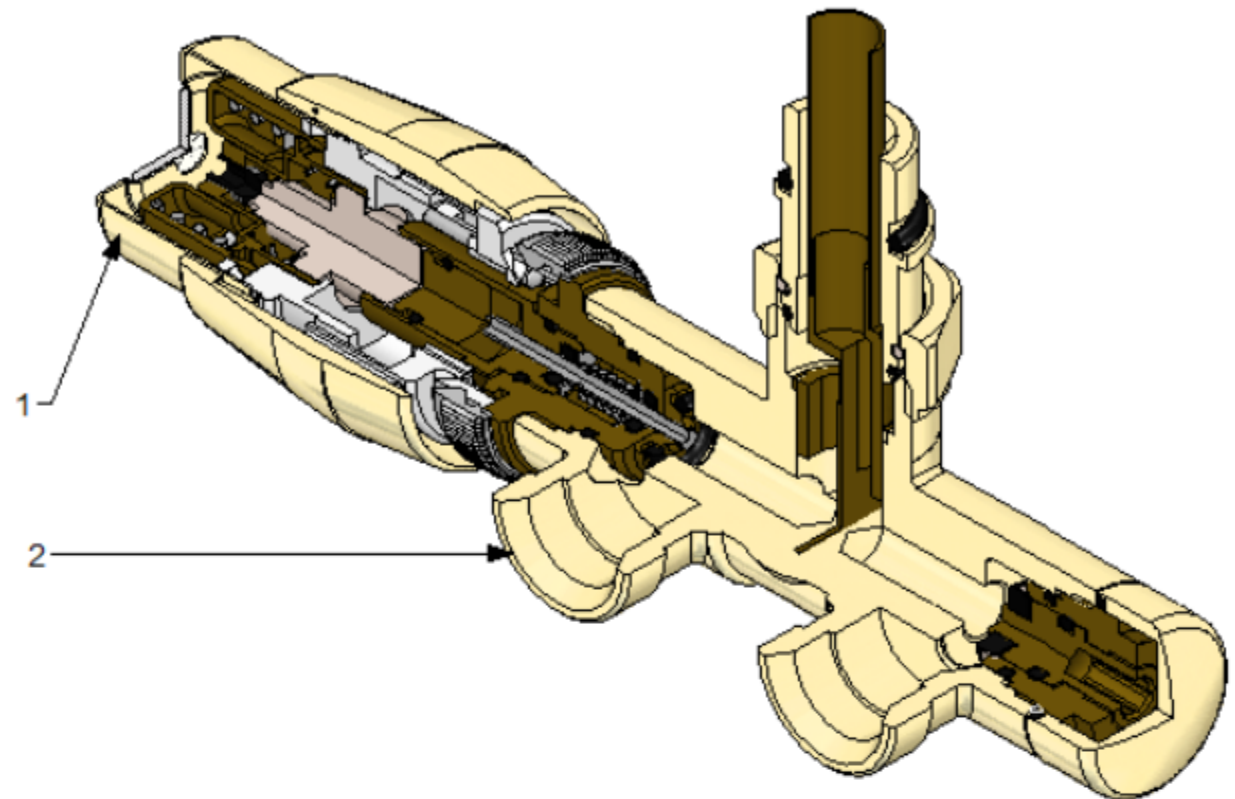


- RIGHT version



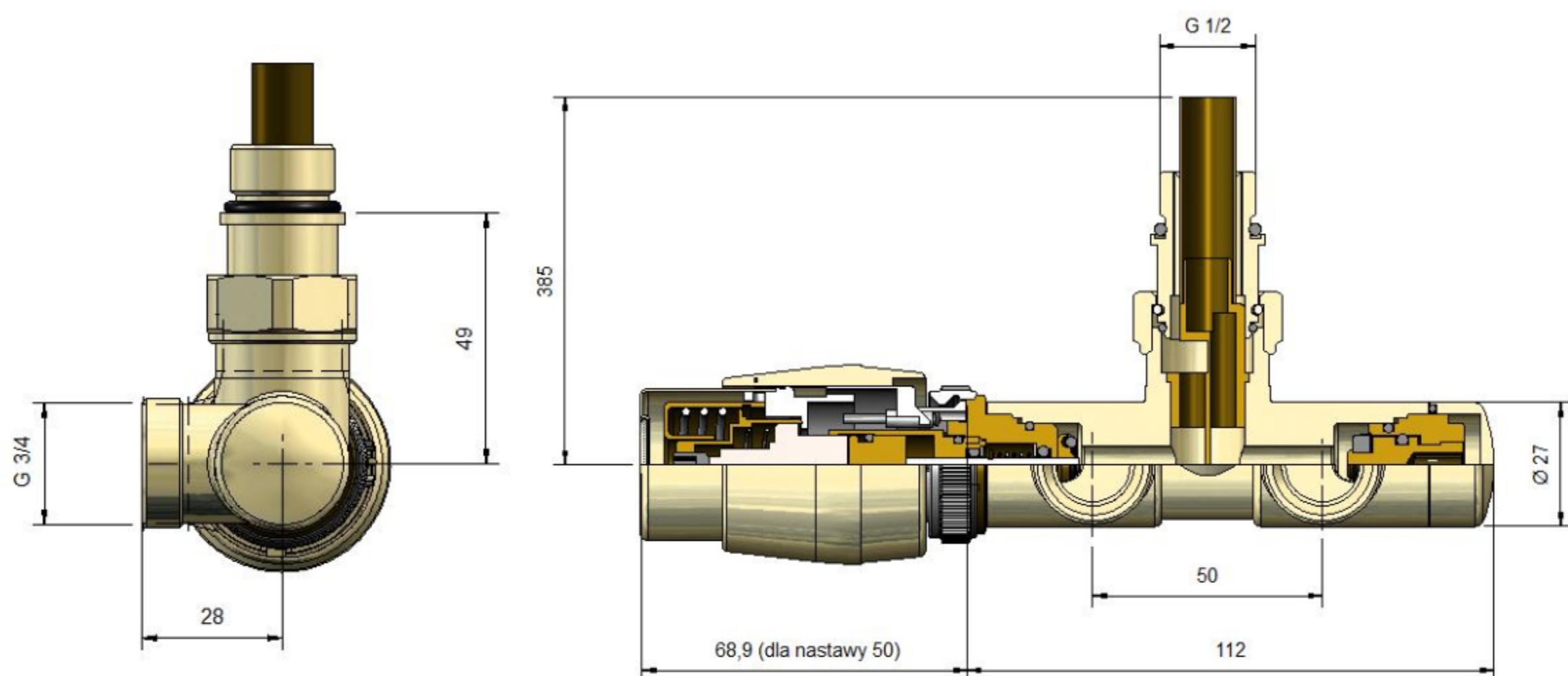
## Design and working of UNICO RTL connection

1. Return Temperature Limiter Prestige RTL
2. UNICO RTL connection



The flow of water supplying the radiator is connected via a return valve and directed to the separating sleeve connected with a directional tube which directs it into the upper zone of the radiator. The return flow of water takes place on the outer surface of the separating sleeve and is directed towards the thermostatic valve insert and then to the connecting socket of the central heating installation.

## SIZES



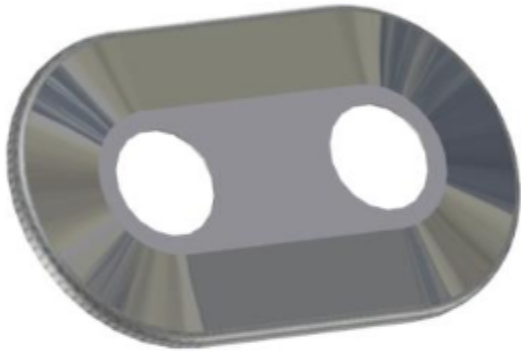

## VERSIONS

All color versions are available on our website: [www.varioterm.pl](http://www.varioterm.pl)



# CONNECTION ACCESSORIES

(useful for connecting the valve and aesthetic finish of the installation)

	<p>Pex 16x2, Cu 15x1 adapters and R 1/2 connector</p>
	<p>Rosette double 1/2 "masking rosettes with 50mm spacing</p>
	<p>Pex / Cu tube masking sleeves (various lengths )</p>