

# Regulating Valve

## RD 201

### Technical data

Maximum working pressure 10 bar  
 Maximum differential pressure 1 bar  
 Maximum working temperature 120 °C

### Construction characteristics

The series ThermoTekna valves with pre-regulation are suitable for any heating system having as carrier hot water, they are equipped with a thermostatic screw stem which offers the possibility of a pre-regulation of the flow. Inside the valve there is a shaped ring in Acetal, with openings defining exactly the flow rate. The regulation to the maximum flow rate is carried out without any intervention inside the valve, but simply by rotating the rod in the required position.

The thermostatic screw allows the replacement of the piston rod watertight device without having to empty the system.

The piston rod is in stainless steel AISI 316 with a tightness assured by two peroxide EPDM o-rings while the tightness on the screw stem is assured by peroxide EPDM o-ring. The sealing placed on the obturator is shaped so to optimize the fluid-dynamic features of the valve.

The protection cap in ABS white RAL 9010 guarantees a protection against accidental knocks, from dirt, and allows the regulation of the inlet flow.

The innovative manual control hand wheel in ABS white (RAL 9010) allows to turn the thermostatic valve into a manual regulation valve.

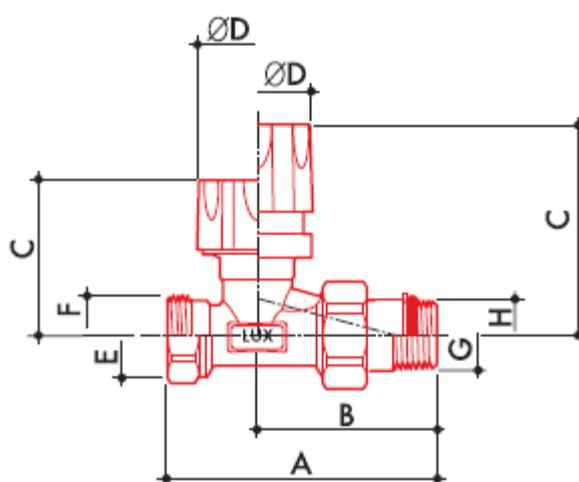
The valve body and the brass parts are produced in compliance to the recent regulation: CW 617 N UNI-EN 12165-98, defining the limit of lead use.

The installation can be easily made thanks to the spherical fitting with the conical knurled thread. The tightness to the body is ensured by a metal coupling and by an EPDM peroxide soft o-ring.

For a correct functioning of the system we suggest to always install between the inlet and the outlet an overpressure valve.

To avoid excessive noise on the system do not use thermostatic valves with of  $\Delta p$  higher 0,2-0,25 bar.

All valves with copper or plastic pipe connections are supplied without assembled fittings.



| RD 201                |                          | A  | B  | C  | D  | E      | F | G      | H | L |
|-----------------------|--------------------------|----|----|----|----|--------|---|--------|---|---|
| CODICE<br>CODE<br>КОД | MISURA<br>SIZE<br>РАЗМЕР |    |    |    |    |        |   |        |   |   |
| 12221700              | DN 10 3/8"               | 76 | 51 | 47 | 37 | G 3/8" | - | R 3/8" | - | - |
| 12222100              | DN 15 1/2"               | 83 | 55 | 47 | 37 | G 1/2" | - | R 1/2" | - | - |
| 12222700              | DN 20 3/4"               | 97 | 65 | 48 | 37 | G 3/4" | - | R 3/4" | - | - |



**RD 201**

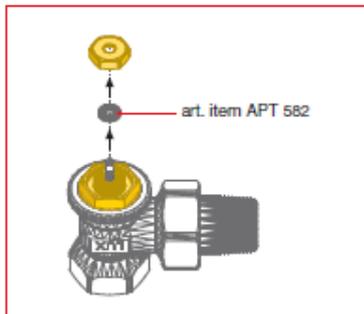
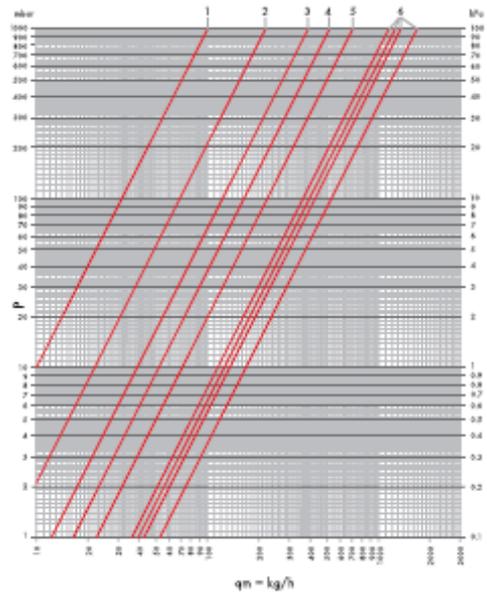
Valvole radiatore diritta termostattabile o elettrocomandabile con cappuccio di protezione. Attacco tubo ferro.

Straight radiator valve thermostatisable or electrically controllable with protection cap. Connection for iron pipe.

Прямой радиаторный вентиль под термостатическую или электроуправляемую головку с защитным колпачком. Для стальной трубы.

| CODICE<br>CODE<br>КОД | MISURA<br>SIZE<br>РАЗМЕР | RACCORDI TUBO RAME<br>FITTING FOR COPPER PIPE<br>ФИТИНГИ ДЛЯ МЕДНЫХ ТРУБ | RACCORDI TUBO PLASTICA<br>FITTING FOR PLASTIC PIPE<br>ФИТИНГИ ДЛЯ ПЛАСТИКОВЫХ ТРУБ | RACCORDI TUBO MULTISTRATO<br>FITTING FOR MULTILAYER PIPE<br>ФИТИНГИ ДЛЯ МНОГОСЛОЙНЫХ ТРУБ |     |    |    | €     |
|-----------------------|--------------------------|--|--|---|-----|----|----|-------|
| 12221700              | DN 10 3/8"               | -  | -  | -   | 177 | 10 | 80 | 8,50  |
| 12222100              | DN 15 1/2"               | TR 92  | -  | -   | 216 | 10 | 80 | 8,95  |
| 12222700              | DN 20 3/4"               | -  | -  | -   | 301 | 10 | 80 | 10,84 |

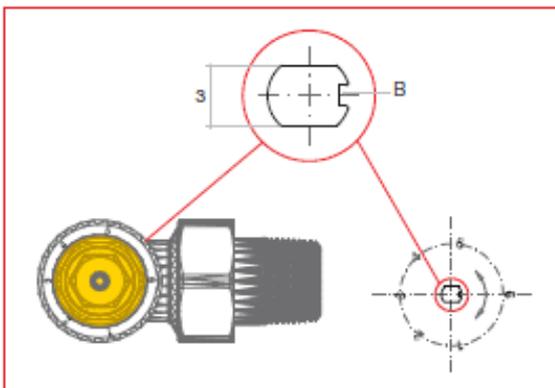
| articoli - item<br>APT                  | pos<br>ПОЗИЦ | Kv   | Kv Δt 1 °C | Kv Δt 2 °C |
|---|--------------|------|------------|------------|
| RD 201 • RD 208 • RD 211                | 1            | 0.10 | 0.11       | 0.15       |
| RD 211/A • RD 2501 • RD 2508            | 2            | 0.22 | 0.16       | 0.25       |
| RD 2511 • RD 2511/A • RS 202            | 3            | 0.39 | 0.18       | 0.36       |
| RS 209 • RS 212 • RS 212/A              | 4            | 0.52 | 0.18       | 0.37       |
| RS 2502 • RS 2509 • RS 2512 • RS 2512/A | 5            | 0.71 | 0.19       | 0.43       |
| Squadra Angle Угловой 3/8"              | 6            | 1.25 | 0.20       | 0.50       |
| Squadra Angle Угловой 1/2"              | 6            | 1.35 | 0.20       | 0.50       |
| Squadra Angle Угловой 3/4"              | 6            | 1.78 | 0.20       | 0.57       |
| Diritta Straight Прямой 3/8"            | 6            | 1.14 | 0.20       | 0.50       |
| Diritta Straight Прямой 1/2"            | 6            | 1.25 | 0.20       | 0.50       |
| Diritta Straight Прямой 3/4"            | 6            | 1.35 | 0.20       | 0.57       |



**Tightness on the stem**

The tightness system can be easily replaced without having to empty the system:

- unscrew the hexagonal collar with a 13mm box wrench;
- remove the o-ring “art. 582 - doc. 3424602”, clean the stainless steel stem, insert a new or ring “art. 582” ;
- assemble the collar screwing tight



**Flow regulation**

To regulate the maximum flow rate you should proceed as follows:

- align the reference mark “B” which you find on the stainless steel stem rod with one of the positions marked on the valve

