# PRODUCT CERTIFICATION

## **LICENSEE**

R.B.M. S.p.A.



028

Via Industriale, 23 25060 S. Giovanni di Polaveno (BS) Italia

LICENSEE IDENTITY NUMBER: 43

PRODUCT: Thermostatic Radiator Valve

LICENSE NUMBER: 04-RBM-TRV-F

#### **REFERENCE DOCUMENTS:**

 UNI EN 215: Thermostatic radiator valves. Requirements and test methods

CEN Keymark scheme rules for thermostatic radiator valves

 CEN/CENELEC Internal regulation - Part 4: Certification

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### LICENSE VALIDITY:

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#### **TECHNICAL INFORMATION:**

The Technical Information of the certified Thermostatic Radiator Valves (qm NH, qm sH,  $C_H$ ,  $D_H$ ,  $W_H$  and  $Z_H$ ) declared by the Licensee are available at page Product Certification on SIET web site <u>www.siet.it</u>.

| HEAD        | ТҮРЕ                   |
|-------------|------------------------|
| 305 (TL8)   | Liquid integral sensor |
| 590 (TL10)  | Liquid integral sensor |
| 720 (TL30)  | Liquid integral sensor |
| 2633 (TL70) | Liquid integral sensor |
| 2634        | Liquid integral sensor |

| VALVE       | FORM     | NOMINAL SIZE | SERIES |
|-------------|----------|--------------|--------|
| 1564.04     | Angle    | DN15 (°)     | (*)    |
| 1564.03     | Angle    | DN10 (°)     | (*)    |
| <br>1979.04 | Straight | DN15 (°)     | (*)    |

(°) Copper tube fitting

(\*) Dimensions and details on connection are not in accordance with the specific Series in Annex A of UNI EN 215



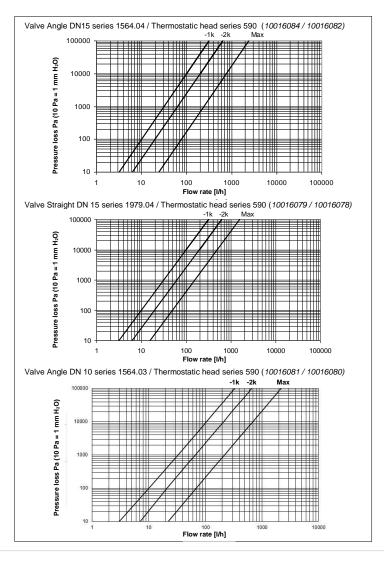


CHIEF EXECUTIVE OFFICER

Alfredo Luce



**SIET S.p.A.** via Nino Bixio, 27/c - 29121 Piacenza - Italia Tel. +39 0523 329011 - Fax +39 0523 329010 siet@siet.it www.siet.it



R.B.M. S.p.A. COMPONENTI PER IMPIANTI IDROTERMICI Sede legale: Via Industriale n° 23 25060 S. Giovanni di Polaveno (BS) Sede amministrativa.: Via S. Giuseppe n° 1 25075 Nave (BS) Tel (+39) 030 2537211 - Fax (+39) 030 2531799

CS i.v. Euro 2.000.000 Reg. imprese di Brescia 00293730172 www.rbm.eu





# THERMOSTATIC VALVE certified UNI - EN 215 Grant of licence brand Keymark

certificate RBM nr. 43

| Technical characteristic<br>Thermostatic valve and RBM thermostatic he<br>series 590 | Declared<br>values |                 |
|--|--------------------|-----------------|
| Thermostatic valve true to quality standard EN 215                                   |                    |                 |
| RBM thermostatic head true to quality standard EN 215                                |                    | 028             |
| Minimum regulation calibration (anti-frost position)                                 | t <sub>s</sub> min | 7°C (*)         |
| Maximum regulation calibration (position)  | t <sub>s</sub> max | 30°C (5)        |
| Saving condition (position)  |                    | 20°C (3)        |
| Maximum exercise pressure  | PN                 | 1000 KPa        |
| Maximum differential pressure  | ΔΡ                 | 100 KPa         |
| Minimum nominal flow rate " $q_m$ N " (DP = 10 KPa) angle-straight DN15              | q <sub>m</sub> N   | 200–220<br>Kg/h |
| Minimum nominal flow rate " $q_m N$ " (DP = 10 KPa) angle DN10                       | q <sub>m</sub> N   | 210 Kg/h        |
| Maximum exercise temperature   |                    | 110°C           |
| Maximum storage temperature  |                    | 50°C            |
| Hysteresis   | С                  | 0,4 K           |
| Authority  | а                  | 0,9             |
| Response time  | Z                  | 25 min          |
| Differential pressure influence  | D                  | 0,3 K           |
| Water temperature influence  | W                  | 1 K             |
| Thermostatic valve supplied with manual regulating wheel (turning)                   |                    | 60°≅ 1K         |

IP1564.0-UK\_00 TRADE SAVE

#### **Mounting process**

- Remove the manual adjustment hand-wheel un-screwing it in counterclockwise.
- Set the thermostatic head numbered handle on "5" position, turning it in counter-clockwise.
- Set the thermostatic head on the valve body centering the hexagon of the head and leaving the reference window adjustment up-sight or at least in visible position.
- **4.** Screw the knurled metallic ring of the thermostatic head to the valve body till the complete locking (avoiding to force too much). After the head mounting process, turn the numbered handle for a few times from position "5" to position "\*" for the parts settlement.

#### Temperature regulation

Regulation is obtained rotating the hand knob till the symbol correspondent to the desired temperature is positioned into the reference window. (approximate values)

| Symbol   | 0   | * | 1  | 2  | 3  | 4  | 5  |
|----------|-----|---|----|----|----|----|----|
| Value °C | 4 ≈ | 7 | 10 | 15 | 20 | 25 | 30 |

(\*) represents the anti-frost position, where the valve opens only when the environment-atmosphere temperature goes below 7°C.

It is suggested during long absences in the winter time or while aerating the place. At position "0" the anti frost protection is not guaranteed.

The minimum declared temperature according to the norm is at position "\*".

#### Warning:

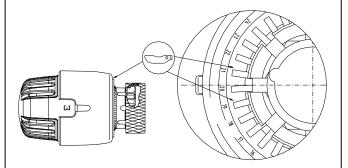
To preserve the good operation of RBM thermostatic head we suggest to **remove** it during the summer time, while the heating system is inactive.

#### **Temperature restriction**

After temperature regulation it is suggested to block the knob on itself or to limit the operation zone.

Blocking wheel on position "3" (20°C) example:

- Set nr. 3 into the symbol visualization window;
- You will see numbers on the wheel, those numbers are ref. to the temperature regulated by the thermostatic head;
- Search n°20 (correspondent to 20°C);
- Insert the dedicated inserts into the spaces close to n°20;
- The wheel will be blocked on symbol "3" position.



If you want to limit the regulation to a wilder range of value displace the inserts into the desired positions.

#### Warning:

For movement blocking or movement limitation you should use the dedicated inserts **codes**. **209.00.00** available as accessory.