

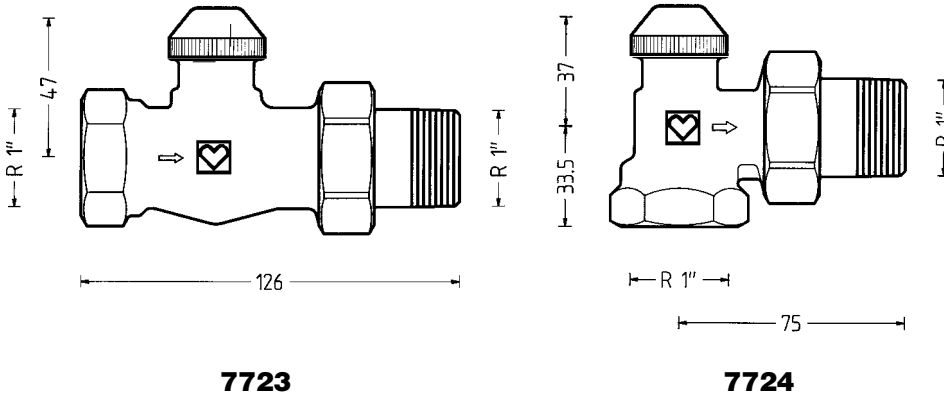
# HERZ-TS-90

## Thermostatic Valve – Lower Parts, R=1"

Standard Sheet

**7723/7724**

Edition 1000 (0999)



Dimensions in mm

Nickel-plated standard models with threaded socket and screw cap.

- 1 **7723** 93 Straight value
- 1 **7724** 93 Angle value

Models

Maximum operating temperature 110 °C  
Maximum operating pressure 10 bar  
Maximum differential pressure in thermostatic operation 0.2 bar

Hot water purity in accordance with Austrian standard ÖNORM H 5195 and/or VDI regulation 2035.

Operating Data

Water heating systems.

Field of Application

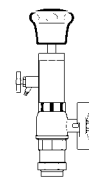
Iron pipe connection 6209 with cone seal, installed, 90° connection cone.

Radiator Connection

### Changing the Upper Part of a Thermostatic Valve

The upper part of a HERZ-thermostatic valve can be removed by means of the HERZ-changing tool while the system is under pressure in order to permit cleaning of the spindle seat seal and/or changing the upper part of the valve. In this way, defects in thermostatic radiator valves caused, e.g., by foreign substances such as dirt, welding or soldering residues, can be easily removed. Follow the operating instructions supplied with the changing tool.

Special Design Features



An O-ring is used as a spindle seal. It is located in a brass chamber which can be changed during operation. The O-ring keeps maintenance requirements at a minimum and permits lasting ease of valve operation.

### Changing the O-Ring

1. Remove the HERZ-thermostatic head or HERZ-TS hand wheel
2. Unscrew the O-ring chamber with the O-ring and replace with a new one. During this change use a wrench to hold the upper part. After removal of the thermostatic head or handwheel the valve is completely open and therefore sealed tight towards upstream. However, a few drops of water may leak out.
3. For re-assembly follow the above steps in reverse sequence. When installing the HERZ-TS hand wheel make sure by turning that the valve closes.

Article number of O-ring set: 1 **6890** 00

Spindle Seal



**HERZ-TS-90-  
O-Ring Chamber**

We reserve the right to make modifications necessitated by technological progress.

HERZ Armaturen

Richard-Strauss-Straße 22 • A-1230 Wien



## HERZ-Standard Diagram

HERZ-TS-90

Art. No. 7723

Dim. DN 25 R=1"

Valve dimensioning [ $\Delta p$ ] has to be performed in accordance with the "VDMA-Instruction Sheet for Planning and Hydraulic Balancing of Heating Systems with Thermostatic Radiator Valves".

 **$k_v$ -value** →**open**Pressure drop  $\Delta p$  ↑Standard flow rate  $q_m$  →

Curve	$k_v$ -value
1 K	0.45
2 K	0.9
3 K	1.3
open	4.2

We reserve the right to make modifications.

HERZ Armaturen

Richard-Strauss-Straße 22 • A-1230 Wien



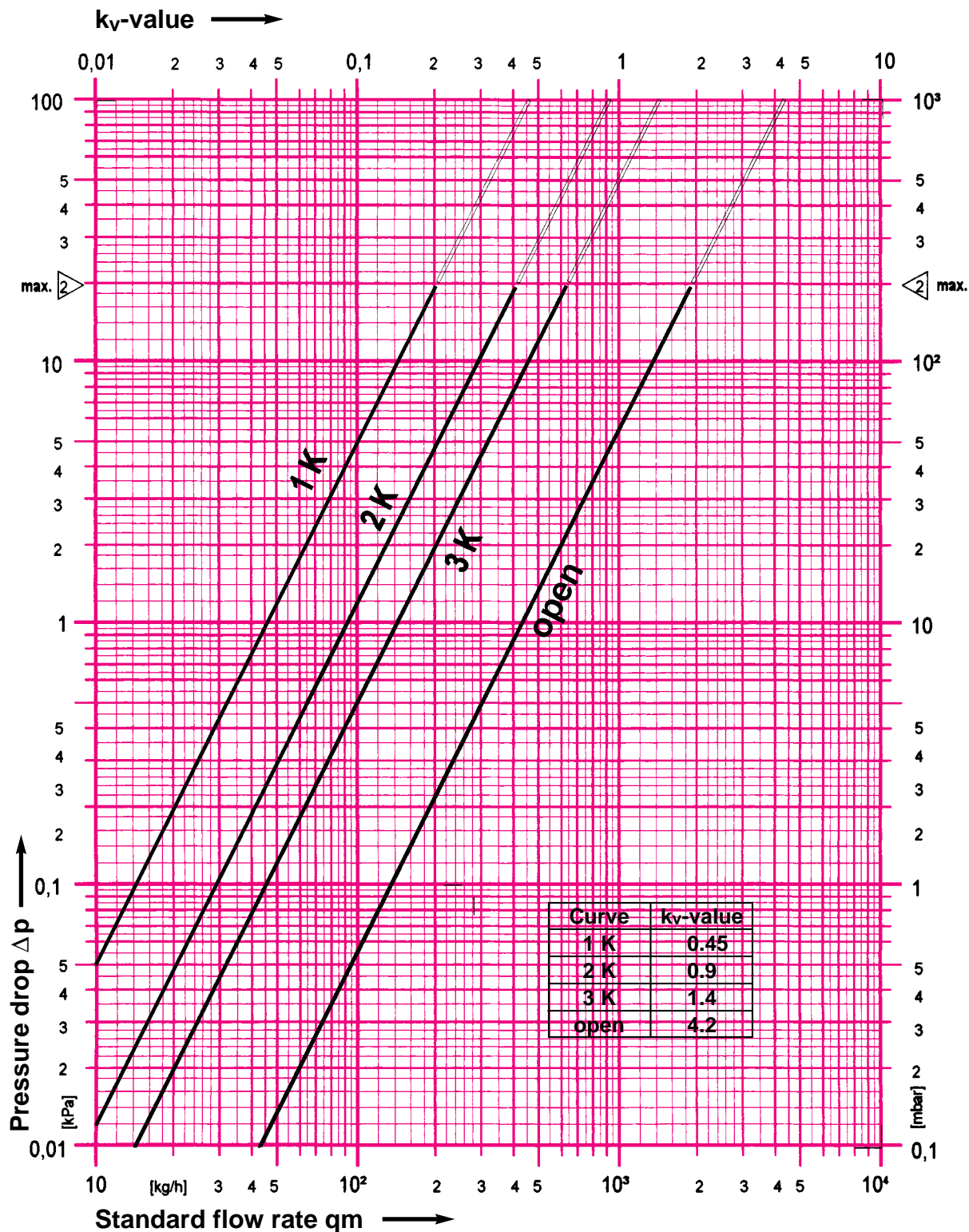
# HERZ-Standard Diagram

HERZ-TS-90

Art. No. 7724

Dim. DN 25 R=1"

Valve dimensioning [ $\Delta p$ ] has to be performed in accordance with the "VDMA-Instruction Sheet for Planning and Hydraulic Balancing of Heating Systems with Thermostatic Radiator Valves".



We reserve the right to make modifications.

HERZ Armaturen

Richard-Strauss-Straße 22 • A-1230 Wien



The screw cap serves for operation during the installation phase (pipe flushing). The thermostatic valve is formed by removing the screw cap and screwing in the HERZ-thermostatic head without draining the heating system.

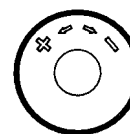
Adjustment of nominal lift by means of screw cap:

On the knurled part of the circumference of the screw cap there are two setting marks (webs) in alignment with the "+" and "-" marks.

1. Close the valve by turning the screw cap clockwise.
2. Mark the position corresponding to the setting mark "+".
3. Turn the screw cap anti-clockwise until the setting mark "-" is at the position marked under item 2.

## HERZ-Thermostatic Valve

### Nominal Lift



The lower part of the thermostatic valve is incorporated into the radiator intake with the flow in the direction of the arrow on the valve body. If possible, the HERZ thermostatic head should be in a horizontal position in order to permit optimum room temperature control with minimum interference.

### Installation

Under no circumstances should the thermostatic head be exposed to direct sunlight or to the effects of equipment emitting relevant quantities of heat (e.g. TV-sets). If the radiator is covered (e.g. by curtains) this will cause heat accumulation zones in which the thermostat cannot sense the room temperature properly and consequently cannot control it. In these cases, use the HERZ-thermostat with remote sensor or the HERZ-thermostat with remote adjustment.

For more information on the HERZ-thermostats refer to the respective standard sheets.

### Important for Installation

After the end of the heating period open the valve completely by turning it in an anti-clockwise direction to prevent dirt deposits at the valve seat.

### Summer Setting

In the exceptional case that a thermostatic valve lower part is not equipped with a HERZ-thermostatic head, a HERZ-TS handwheel is mounted to replace the screw cap.

Follow the instructions for installation supplied with the handwheel.

### HERZ-TS Handwheel



- 1 **6807** 90 HERZ-TS-90 Assembly Key
- 1 **7780** 00 HERZ changing tool for thermostat upper parts

### Accessories

- 1 **7102** 80 HERZ-TS-90 Handwheel, Series 7000 with pre-setting and locking functions
- 1 **9102** 80 HERZ-TS-90 Handwheel, Series 9000 "Design"

### Handwheels

- 1 **6390** 93 Thermostatic upper part for valves R 1"
- 1 **6890** 00 HERZ-TS-90 O ring set

### Spare parts