

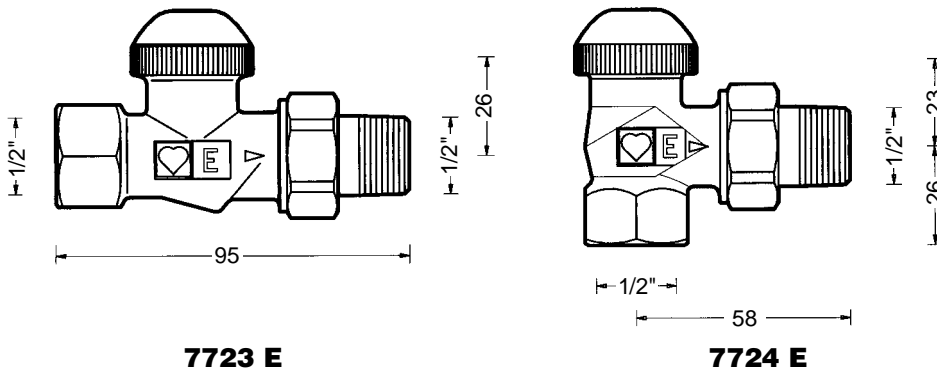
HERZ-TS-90-E

Thermostatic valve lower parts with resistance
universal models

Standard Sheet

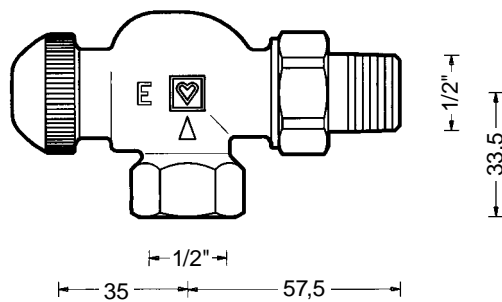
HERZ-TS-90-E

Edition 1000 (0999)

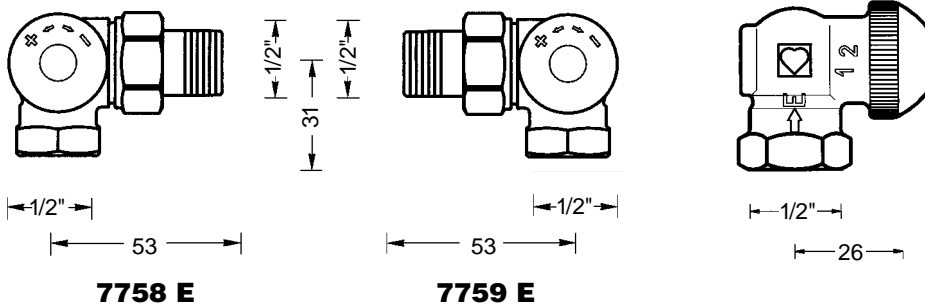


7723 E

7724 E



7728 E



7758 E

7759 E

Dimensions in mm

Universal models with special socket for threaded pipe and compression union connection, nickel-plated and with white safety cap.

- | | | | | |
|---|-------------|-----------|-------------|---|
| 1 | 7723 | 01 | 1/2" | straight valve |
| 1 | 7724 | 01 | 1/2" | angle valve |
| 1 | 7728 | 01 | 1/2" | reverse angle valve |
| 1 | 7758 | 01 | 1/2" | HERZ-3-Axis valve "AB", radiator to the right of the intake valve |
| 1 | 7759 | 01 | 1/2" | HERZ-3-Axis valve "CD", radiator to the left of the intake valve |

Models

HERZ-TS-90-E

Standard models with threaded socket

- | | | |
|---------------|----------------|---------------------|
| 7723 E | 1/2"-1" | straight valve |
| 7724 E | 1/2"-1" | angle valve |
| 7728 E | 1/2"-1" | reverse angle valve |

A separate standard sheet is available for these valves.

Other Models

HERZ-TS-E

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

Max. operating temperature 110 °C
 Max. operating pressure 10 bar
 Max. permissible differential pressure 0.2 bar

Hot water quality conforming to ÖNORM H 5195 and/or VDI guideline 2035.

When using HERZ compression unions for copper and steel pipes, observe the permissible temperatures and pressures as specified in EN 1254-2:1998 Table 5. A maximum operating temperature of 80 °C and maximum operating pressure of 4 bar applies for plastic pipe connections, if permitted by the pipe manufacturer.

Operating Data

HERZ-Compression Union

One or two pipe water heating systems.

Field of Application

Iron pipe connection 6210 with cone seal, mounted.
 It is recommended to use HERZ assembly key 6680.

Radiator Connections

To be used instead of the radiator connection.

- 6210** 1/2" Iron pipe connection, lengths 26 mm and 35 mm.
- 6211** 1/2" Reducing connection, 1/2" x 3/8".
- 6218** 1/2" Long threaded bush, without nut, can be shortened to compensate for differences in structural dimensions, lengths 39, 42, and 76 mm.
- 6218** 1/2" Threaded bush, without nut.
- 6235** 1/2" Soldering connection for pipe external diameters 12, 15 and 18 mm.
- 6249** 1/2" Connection elbow for iron pipes, without nut, with cone seal.
- 6274** G 3/4 Compression union for copper and thin-walled steel pipes, external pipe diameters 8,10, 12, 14, 15, 16, 18.
- 6275** G 3/4 HERZ compression union with soft seal for copper and thin-walled steel pipes, particularly suitable for hard special steel pipes and pipes with hard-galvanised surfaces. For pipe external diameters 12, 14, 15 mm.
- 6098** G 3/4 HERZ compression union for PE-X-, PB and plastic composite pipes.

Further Connecting Options

Please refer to the HERZ Catalogue for order numbers.

For use on the socket side of the valve:

- 6219** 1/2" Reduction socket, brass version, for connecting pipe and valve, female thread (pipe) x male thread (valve) 1" x 1/2", 1 1/4" x 1/2"
- 6066** M 22 x 1,5 Plastic pipe connection for PE-X-, PB and plastic composite pipes, for use with adapter 1 **6272** 01 (R 1/2 x M 22 x 1.5).
- 6098** G 3/4 Plastic pipe connection for PE-X, PB and plastic composite pipes, for use with adapter 1 **6266** 01 (R 1/2 x G 3/4).

For pipe dimensions of plastic pipe connections refer to the HERZ catalogue.

Pipe Connection Universal Models

The universal models are equipped with special sockets offering the option of connecting either a threaded pipe or a calibrated soft-steel or copper pipe, the latter two by means of a compression union. The compression union must be ordered separately.

When using valves R = 1/2" for external pipe diameters of 10, 12, 14, 16 and 18 mm the adapter 6272 has to be used between valve and compression union.

Pipe ø D mm		10	12	14	15	16	18
Valve R =		1/2"					
Adapter Order no.		1 6272 01	1 6272 01	1 6272 01		1 6272 01	1 6272 11
Compr. Union Order no.		1 6284 00	1 6284 01	1 6284 03	1 6292 01	1 6284 05	1 6289 01

When installing soft steel or copper pipes with compression union we recommend the use of support sleeves. For perfect installation lubricate the thread of the lock nut and the olive with oil. We refer to our instructions for installation.

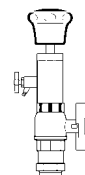
Changing the upper part of a thermostatic valve.

The HERZ thermostatic valve upper part can be changed under pressure using the HERZ changing tool for the purpose of:

- Cleaning the seal at the spindle and/or changing the upper part of the valve. Thus any problems with radiator valves – e.g. those caused by foreign substances like dirt, welding and soldering residues – can be easily resolved.

When using the HERZ changing tool please refer to the operating instructions supplied with it.

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 smooth valve operation over a long period of time.

Changing the O-ring

1. Dismantle the HERZ thermostatic head and/or HERZ-TS hand wheel.
2. Then, unscrew the O-ring chamber including the O-ring and replace it with a new one. When doing this use a wrench to hold the upper part. During dismantling, 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 handwheel, turn to make sure that the valve closes.

Order Number for O-ring set: 1 **6890** 00

Spindle Seal



HERZ-TS-90-O-Ring-Chamber

The screw cap is for operating 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.

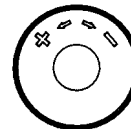
Adjustment of nominal lift by means of screw cap:

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 (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 and minimise with minimum interference.

Installation

Under no circumstances should the HERZ 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 by curtains this will lead to the formation of a heat accumulation zone in which the thermostat cannot sense the room temperature properly and consequently cannot to control it. In such cases, use the HERZ thermostat with remote sensor or the HERZ thermostat with remote adjustment.

For detailed information on the HERZ thermostats consult the individual standard sheets.

Important for Installation

After the end of the heating period open thermostats or hand wheels completely by turning anti-clockwise, this prevents dirt particles accumulating at the valve seat.

Summer Setting

In case the lower part of a HERZ thermostatic valve is not equipped with a HERZ thermostatic head the HERZ-TS handwheel will replace the screw cap.

During assembly follow the enclosed instructions.

HERZ-TS-Handwheel



- 1 **6680** 00 HERZ assembly key for connections
- 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 function
- 1 **9102** 80 HERZ-TS-90 handwheel, Series 9000 "Design"

Handwheels

- 1 **6379** 02 HERZ-TS-90-E Thermostatic upper part
- 1 **6890** 00 HERZ-TS-90 O-ring set

Spare Parts

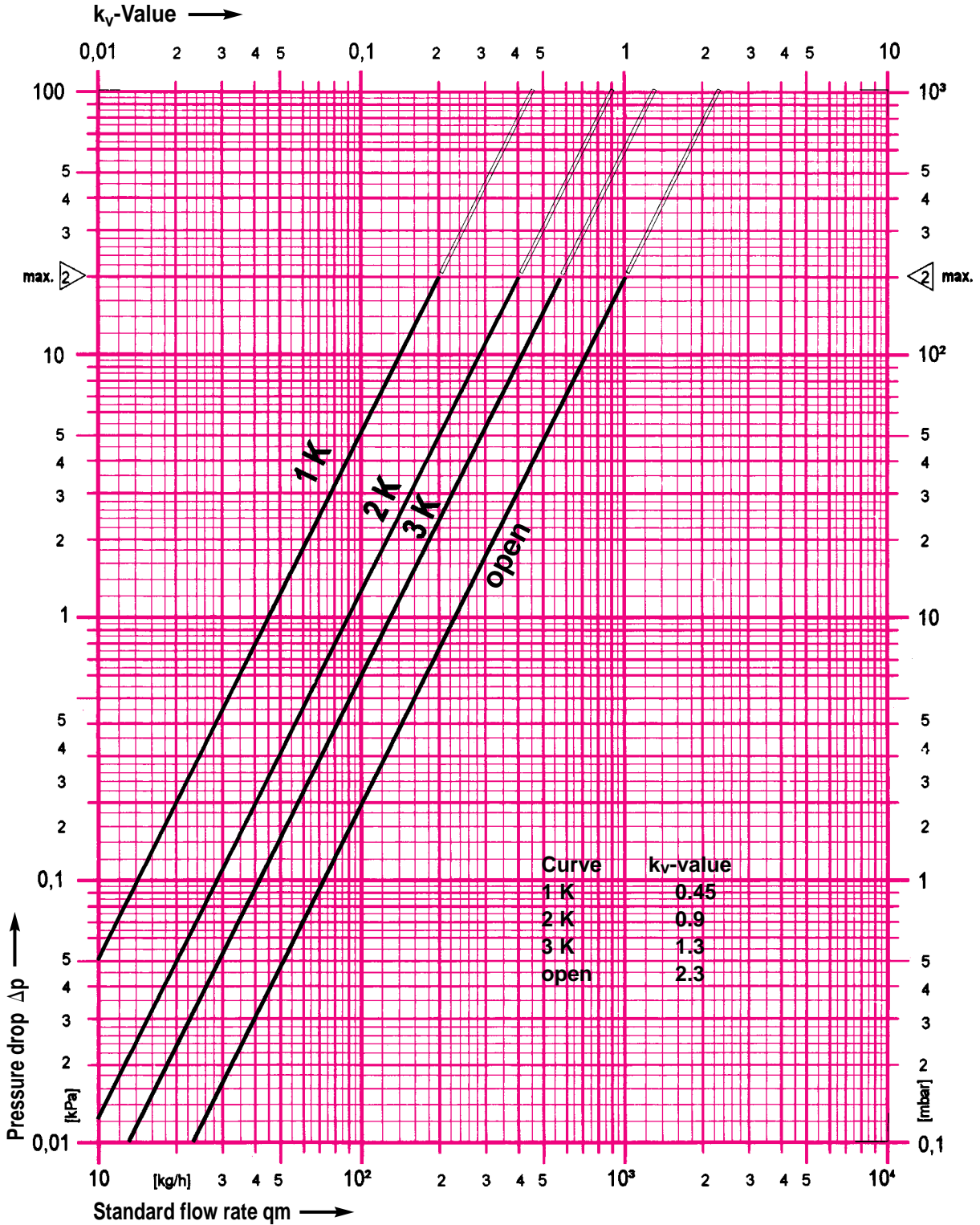
HERZ-Standard diagram

HERZ-TS-90-E

Art. No. 17724 01

Dim. DN 15 R=1/2"

Valve dimensioning [Δp] shall 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



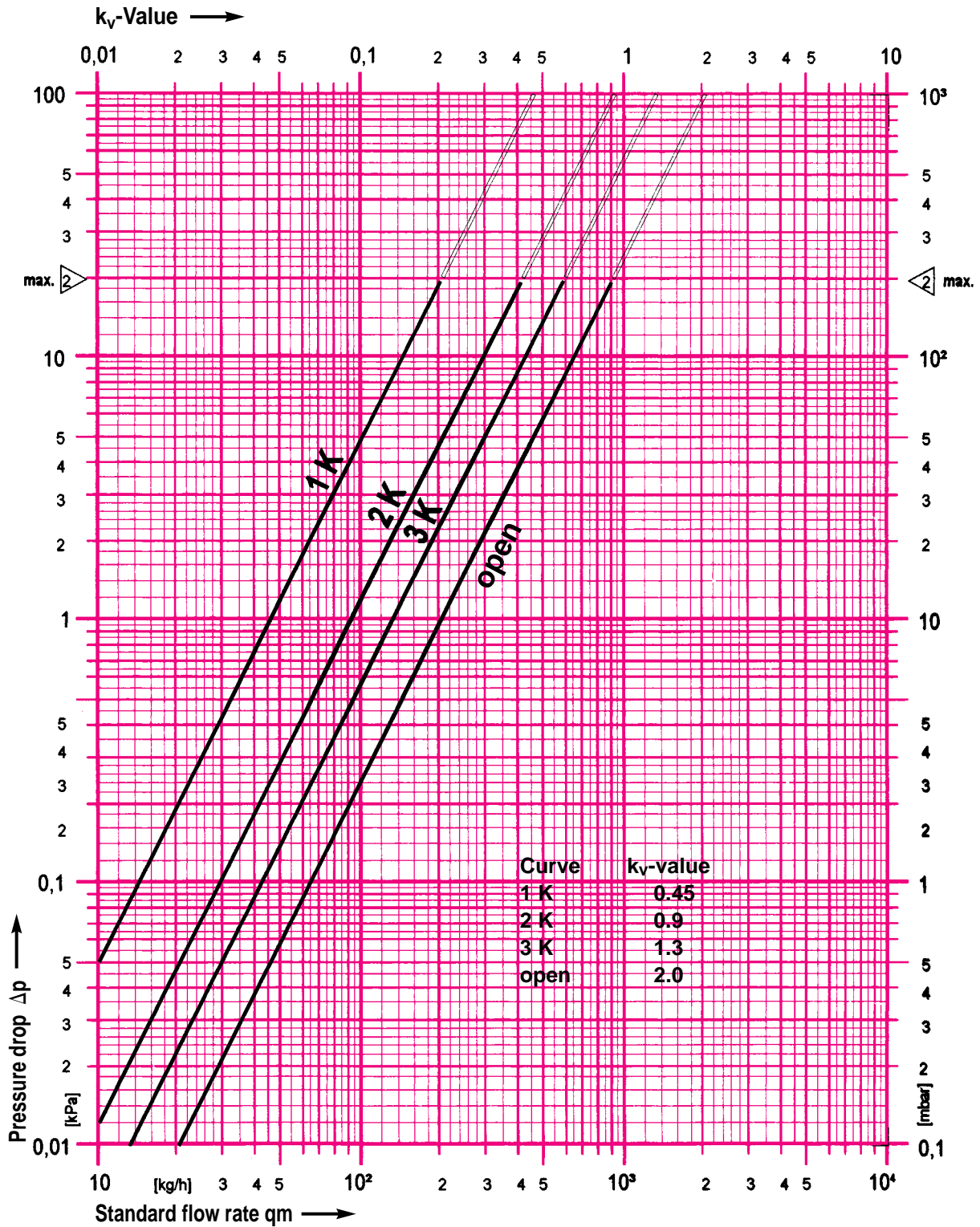
HERZ-Normdiagramm

HERZ-TS-90-E

Order no. 1 **7723** 01, 1 **7728** 01, 1 **7758** 01, 1 **7759** 01

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