HERZ-Zone Valve

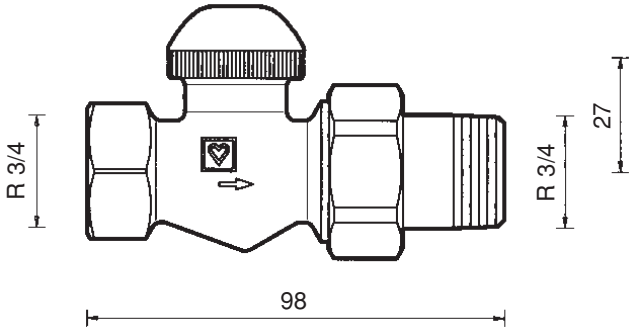
for Thermostatic Control

Data Sheet for

7723

Edition 0504 (0504)

Dimensions in mm
Dimensional Series F



Design

1 **7723** 82 Straight valve, nickel plated, with black screw cap. Universal model with special socket for threaded pipe and compression union. At the upper part there is a black marking point.

Thermostatic Control

Suitable for control by all HERZ-thermostats as well as HERZ-thermal actuators in connection with electric room thermostats.

Operating Data

Maximum operating temperature: 120 °C
Maximum operating pressure: 10 bar

Hot water purity in accordance with ÖNORM H 5195 and/or VDI guideline 2035.

HERZ-Compression Unions

When using HERZ compression unions for copper and steel pipes take into account the permissible temperature and pressure ratings according to EN 1254-2: 1998, as shown in table 5.

Field of Application

Water heating systems. Do not use glycol as an antifreeze.

Radiator Connection

Iron pipe connection R 3/4 with cone seal, installed.
It is recommended to use the HERZ assembly key 6680.

Further Connection Options

Instead of the radiator connection, the following components be used:

1 **6218** 02	3/4 x 70	Long threaded bush without nut, can be shortened in order to compensate for differences in structural dimensions.
1 **6235** 12	3/4 x 18	Soldering connection
1 **6249** 02	3/4	Iron pipe connection elbow, without nut

Connections for universal socket:

1 **6292** 02	18 mm	Compression union for copper and thin-walled steel pipes
1 **6219** 05	1 x 3/4	Reduction socket, in brass
1 **6219** 14	1 1/4 x 3/4	

Installation of Compression Unions

For the installation of soft-steel or copper pipes with compression union, we recommend the use of support sleeves. For perfect installation lubricate the thread of the locking nut as well as the olive with silicone oil. Please consult our instructions for installation.

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

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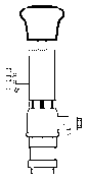
Changing the Upper Part of the Zone Valve

The upper part of the zone valve can be changed by means of the HERZ-changing tool while the system is under pressure for the purpose of cleaning the seat seal at the spindle or replacing the upper part of the valve. This permits easy removal of defects in thermostatic valves, caused, e.g., by foreign substances such as dirt, welding or soldering residues.

Take into account the operating instructions supplied with the HERZ-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, thermal actuator or hand wheel.
2. Unscrew the O-ring chamber with the O-ring and replace it with a new one. During this change use a wrench to hold the upper part. After removal of the thermostatic head, thermal actuator or hand wheel 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, test whether the valve shuts by turning the hand wheel.

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

Spindle Seal

HERZ-TS-90 O-Ring Chamber

The torus sealing system with limitation of shutting pressure is made of a special material and therefore is particularly suitable for thermal actuators closed without current.

Seat Seal

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

HERZ Thermostatic Valve

During installation of the zone valve take into account the direction of flow (arrow at the valve body).

In order to avoid the effects of dripping water, the HERZ-thermal actuator should not be installed below the valve axis.

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. This would cause a heat accumulation zone in which the thermostat cannot sense the room temperature properly and consequently is not in a position to control it. In these cases, use HERZ-thermostats with remote sensor or HERZ-thermostats with remote control.

Take into account the permissible ambient temperature for thermal actuators.

For details on HERZ-thermostats and HERZ-thermal actuators refer to the respective Standard Sheets.

Important for Installation

After the end of the heating period, open the valve completely if possible, in order to prevent the formation of dirt deposits at the valve seat.

Summer Position

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

Take into account the instructions for installation supplied with the hand-wheel.

HERZ-TS-Hand Wheel

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1 **6680** 00 HERZ assembly key for connections
1 **6807** 90 HERZ-TS-90 assembly key
1 **7780** 00 HERZ-changing tool for thermostatic upper parts

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

Accessories

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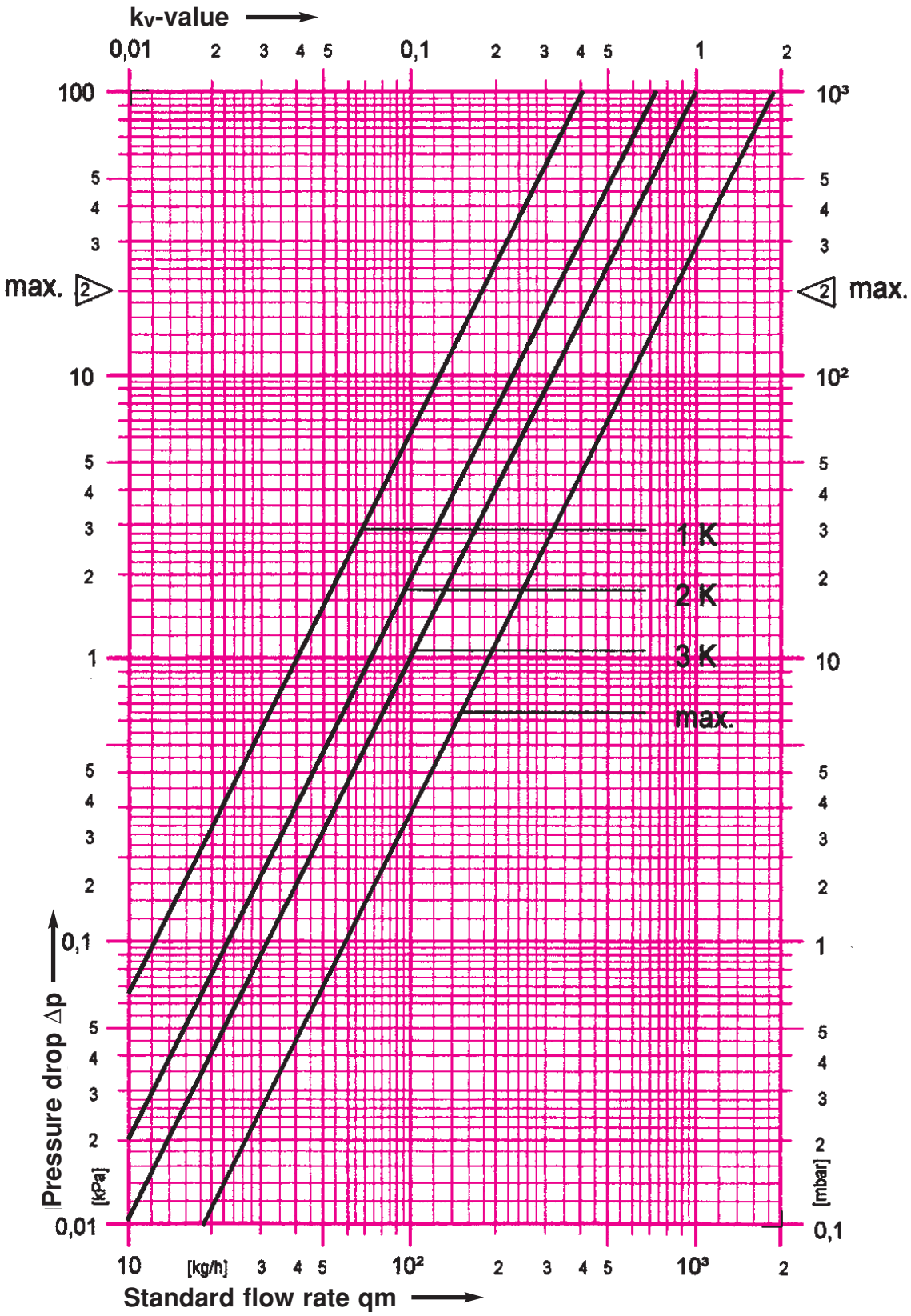
1 **6391** 92 Zone valve upper part
1 **6890** 00 HERZ-TS-90 O-ring set

Spare Parts

HERZ-Standard Diagram	HERZ-Zone Valve
Art. No. 1 **7723** 82	Dim. DN 20 R = 3/4

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



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