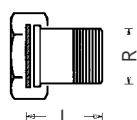
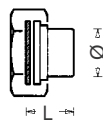


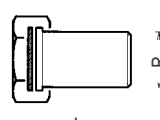
1001



6220/6221



6236



6240/6241

CALIS-TS

Flow T-piece
Connections

Order No.	Dimension	R	A	B	C
1 7761 01	1/2"	3/4"	30	30	22
1 7761 02	3/4"	1"	37,5	34	22
Order No.	R	L	Models		
1 6220 21	1/2"	31	Iron pipe connection with flat seal, nickel-plated		
1 6220 11	1/2"	40			
1 6220 12	3/4"	33.5			
1 6220 22	3/4"	46.5			
1 6221 02	3/4"x1/2"	34.5	Reducing connection with flat seal, nickel-plated		
1 6240 01	1/2"	47	Welding connection with flat seal, nickel-plated nut		
1 6240 02	3/4"	47			
1 6241 02	3/4"x1/2"	47	Reducing connection with flat seal, nickel-plated nut		
1 6236 01	1/2"	12	16	Soldering connection with flat seal, nickel-plated nut	
1 6236 11	1/2"	15	19		
1 6236 21	1/2"	18	21		
1 6236 02	3/4"	15	20		
1 6236 12	3/4"	18	21		
1 6236 22	3/4"	22	25		



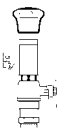

Dimensions in mm

Connections –
to be ordered separately

Dimensions in mm
Models

Dimension "L"
Including Seal (2 mm)

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

7761	1/2" + 3/4"	CALIS-TS three way valve, nickel plated, flat seal, with screw cap. Pipe connections have to be ordered separately.	Model
1 1001 02	3/4"	Flow T-piece, nickel plated, with flat seal. Pipe connections must be ordered separately.	Flow-T-piece
The flow T-piece is used on one-pipe radiators with a CALIS-TS three-way valve to connect the radiator return pipe hydrodynamically.			
CALIS-TS 3-D three-way valves CALIS-TS 3-D three-way valves, with maximum flow			Other Models
A separate standard sheet is available for these models.			
Max. operating temperature 110 °C Max. operating pressure 10 bar Max. differential pressure in thermostatic operation 0.2 bar Hot water quality conforming to ÖNORM H 5195 and/or VDI guideline 2035.			Operating Data
For all water heating systems in single pipe operation, for skirting board and convector heating systems as well as for cooling systems.			Field of Application
During installation please observe the flow direction. It is marked by arrows on the valve body.			Installation of CALIS-TS
<div style="display: flex; align-items: center; justify-content: center;"> Pipe Circuit  </div>			
<p>Spindle Seal 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.</p> <p>Changing the O-Ring</p> <ol style="list-style-type: none"> 1. Dismantle the HERZ thermostatic head and/or HERZ-TS-handwheel. 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 sealing tight towards upstream. However, a few drops of water may leak out. 3. For re-assembly follow the above mentioned steps in reverse sequence. When installing the HERZ-TS-handwheel, turn to make sure that the valve closes. <p>Order Number for O-Ring set: 1 6890 00.</p>			Special Design Features
<p>Seat seal The valve cone is equipped with a soft seal, designed to meet the requirements of thermostatic operation.</p>			 <p>HERZ-TS-90 O-Ring Chamber</p>
<p>The CALIS-TS upper part can be changed under pressure by means of the HERZ changing device. In this way any problems occurring at the seat seal, e.g. accumulation of foreign substances such as dirt, welding and soldering residues, can be easily resolved.</p> <p>When using the HERZ changing device 1 7780 00 please refer to the operation instructions supplied with it.</p>			<p>Changing the Upper Part of the Valve</p> 
<p>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.</p> <p>Setting the nominal lift with the screw cap:</p> <p>On the knurled part of the circumference of the screw cap there are two setting marks (webs) in alignment with the "+" and "-" marks.</p> <ol style="list-style-type: none"> 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. 			Thermostatic Valve
			Nominal Lift
			

When planning the system please note that the HERZ thermostatic head should wherever possible be installed horizontally in order to ensure optimum control of the room temperature and at the same time minimise disturbances. If this is not possible the HERZ thermostat with remote sensor or remote control should be used.

Under no circumstances should the HERZ thermostatic head be exposed to direct sunlight or equipment that emits relevant quantities of heat – e.g. television 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 and cannot therefore control it. In these cases, use HERZ thermostats with remote sensor or remote control.

Refer to the appropriate standard sheets for details of HERZ thermostats.

Installing the Thermostatic Valve

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 the HERZ thermostatic valve lower part is not equipped with a HERZ thermostatic head, the HERZ-TS handwheel is used to replace the screw cap.

During installation, follow the instructions enclosed with the handwheel.

HERZ-TS Handwheel



- 1 **6807** 90 HERZ-TS-90 assembly key
- 1 **7780** 00 HERZ changing tool for thermostatic upper parts
- 1 **7102** 80 HERZ-TS-90 Handwheel, Series 7000 with pre-setting and locking functions
- 1 **9102** 80 HERZ-TS-90 Handwheel, Series 900 "Design"

Accessories

Handwheels

- 1 **6329** 01 Thermostat upper part for CALIS-TS
- 1 **6890** 00 HERZ-TS-90 O-ring set

Spare Parts

k_v-Values

Characteristics	CALIS-TS-valve	k _v -value	Water distribution to radiator %	Operational status
1	1 7761 01	1.45	0	Valve closed towards radiator
2	1 7761 02	1.65		
3	1 7761 01	1.8	50	Thermostatic operation xp = 2 K
	1 7761 02			
	1 7761 01	1.8	60	Thermostatic operation xp = 3 K
	1 7761 02			
4	1 7761 01	2.75	80	Valve open
5	1 7761 02	3.2		

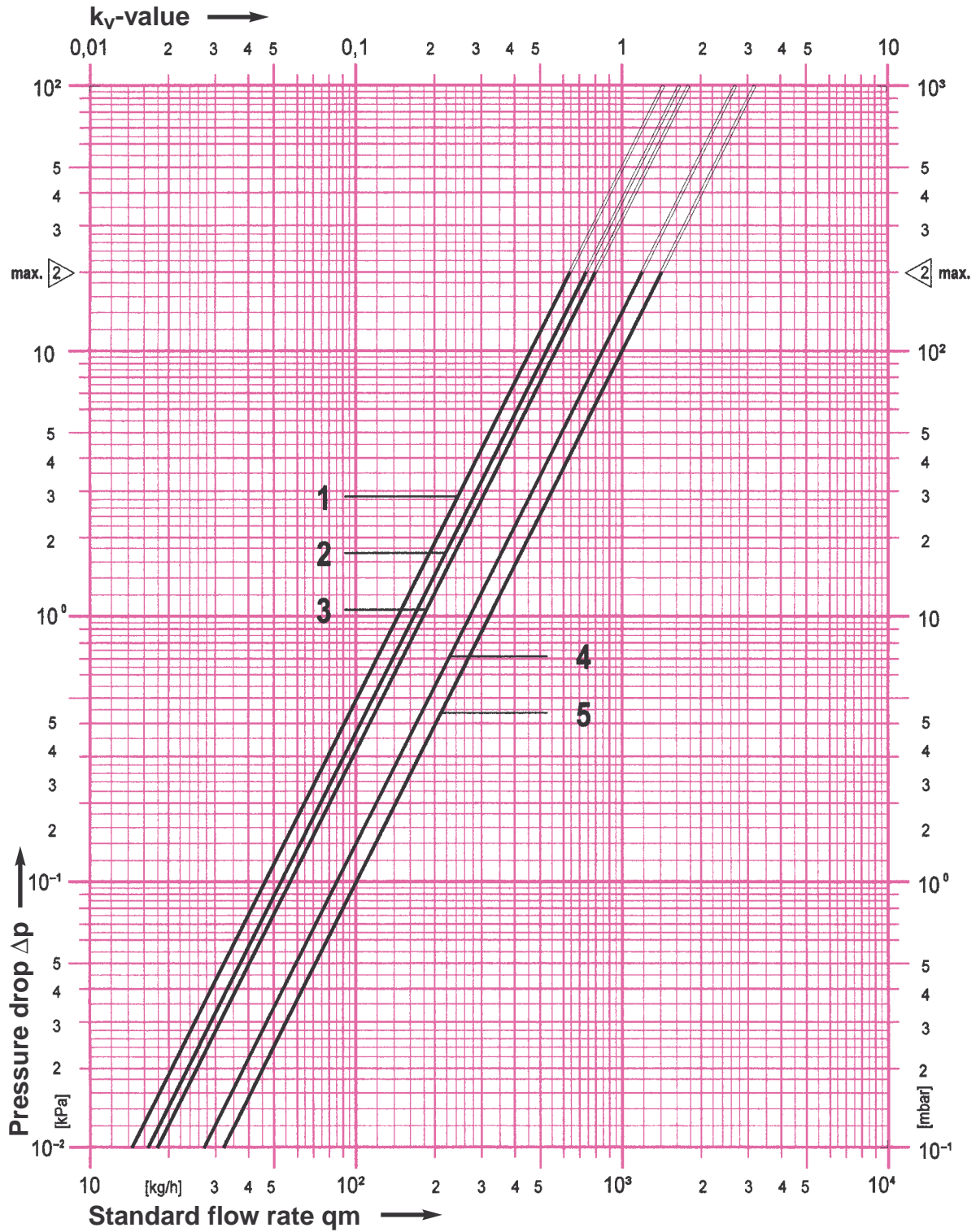
HERZ-Standard Diagram

CALIS-TS

Art. No. 7761

Dim. R = 1/2" • R = 3/4"

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

