

Renovation of heating systems

HERZ thermostatic control and regulating valves





From old to new!

The correct identification of valve fittings is the essential prerequisite for a correct and economical plant renovation. Which replacement and retrofit parts are required / available? This comprehensive guide provides all the answers and practical support for the conversion of manual control valves to HERZ thermostatic valves and HERZ thermostatic heads - especially for the target groups of maintenance engineers, plant supervisors as well as project and building technicians.

An important factor in all renovation work is, in addition to the structural conditions, to consider the hydraulics of the system.

Thermostatic valves always have a higher flow resistance and thus a lower kv value than manually operated radiator valves. Especially if a system is only partially modernized, it must be ensured by suitable measures, such as the regulation of the pipe system, that the heating medium is also distributed correctly. We recommend HERZ balancing valves, pre-settable HERZ RL-5 return valves and other regulating valves. Detailed information can be found in the current HERZ product range. Often neglected, but both economically and ecologically sensible: the calculation of the existing pipe network with the new resistance values.

After all, the core of energy-efficient buildings is a building services system that is economical and comfortable with operation and maintenance.

Main focus:

HERZ Armaturen product range	Page 3
Overview of HERZ manual and TS valves	Page 4-5
HERZ special items for conversion	Page 6
The conversion of the individual HERZ valve bodies	Page 6-7
History of HERZ-TS thermostatic valves	Page 8
Overview of regulating and thermostatic valves	Page 9
Overview of thermostatic heads	Page 10-12
Manual regulating valves 1978-1991	Page 13-14
Overview of valves	Page 15



Product

For the modernization of heating systems, various HERZ series TS-90 thermostatic valves are available:

- ☑ TS-90 thermostatic valve
- ☑ TS-90-kv thermostatic valve with fixed, graded kv values
- ☑ TS-90-V thermostatic valve with continuous concealed presetting
- ☑ TS-98-V thermostatic valve with continuous presetting and readout
- ☑ TS-99-FV thermostatic valve with ultra-fine presetting and readout
- ☑ TS-90-E thermostatic valve with reduced resistance
- ☑ TS-E thermostatic valve with the lowest resistance

Combined with HERZ thermostatic heads with a fixed sensor, remote sensor or remote setting, the result is optimal room temperature control - simply for well-being. When modernizing heating systems, it should always be borne in mind that not every radiator is automatically equipped with a return valve. In principle, we recommend the installation of such valves (in accordance with ÖNORM H 5150), since this also gives the possibility of hydraulic balancing and, in the case of repair work, the radiator can be dismantled even if the system is under pressure. All current models can be found in the HERZ product range and at www.herz.eu.

PRACTICAL TIP: HEART TS - Preset calculator & valve selection



Calculator for presetting:

An article overview is displayed based on the selection options DN10, DN15 or DN20.

For the selected item (e.g. HERZ TS-98-V) enter now the value for the pressure loss (kPa) and the flow rate (l / h). After entering the two parameters, the default value is automatically displayed. As additional information, both the dimension and the kv value can be seen.



Valve selection for calculating the kv value:

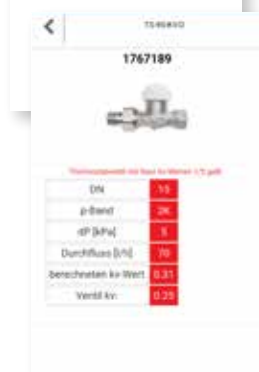
You want to plan correctly in advance and look for the optimal valve. After entering pressure loss and flow (optionally with DN 10, DN15, DN20 and DN25), there are two options to choose from:

Pre-settable valves:

You will receive an overview of suitable pre-settable valves. Item details are available by direct selection.

Fixed kv valves:

Alternatively, it is also possible to retrieve a proposal for suitable valves with a fixed kv value. These valves are used e.g. in district heating applications. Again, all article details are available with a click.



Overview HERZ manual regulating valves and thermostatic valves (TS)

Group AS before 1965 to today

HERZ AS before 1965

6123 yellow, handwheel cream
6124 Indicator black with screw
Spindle with square



HERZ AS 1965 - 1978



6123 yellow, handwheel cream
6124 Indicator black smooth with screw

HERZ AS-T 1978 - 1992

6823 nickel plated, handwheel gray
6824 Indicator anthracite matt



HERZ AS-T-90 from 1992



1 6823 9x nickel plated, hand wheel white
1 6824 9x Indicator white

Group ID

HERZ ID 1965 - 1970

6023 yellow, handwheel cream,
6024 round with screw



Group GP

HERZ GP 1970 - 1978



5023 yellow, handwheel cream
5024 8-sided

HERZ GP-T 1978-1992

5823 nickel plated, handwheel gray
5824 8-sided



HERZ GP from 1992



5523 nickel-plated, white handwheel
5524 with screw, with or without pre-
setting, one-piece

HERZ TS 1971-1972

7123 yellow, head mounting thread or
7124 the Body,
upper part round with two flats
and with hexagon



HERZ TS 1973-1977



7123 yellow or nickel plated,
7124 Head mounting thread, the
body, upper part round with two
flats

HERZ TS from 1982

7123 yellow,
7124 Head thread at the top
7123 L nickel



HERZ TS-90 from 1992



see
Page 8

nickel-plated, protective cap
white head mounting thread on
the Body, 5 versions
TS-90, TS-90-V
TS-90-KV, TS-90-E
TS-90-H

HERZ special items for conversion

In addition to the regular product range, we offer special items for the conversion of heating systems. The straight and angle design of the TS-90, TS-90-V, TS 98-V and TS-FV series are also available in the D series. For order numbers see delivery program. Additional TS-90-kv in 3/8" angle and straight form, construction dimension D:

Type	Straight form	Angle type	Long threaded bush	1 6218 00
B	1 7773 69	1 7774 69		
C	1 7773 79	1 7774 79		
D	1 7773 89	1 7774 89		
E	1 7773 99	1 7774 99		

Note: Special items are not in stock - please plan longer delivery times.

The conversion of the individual HERZ valve types

Note: The following section describes the installation of TS 90 valves. However, it can always be selected from 5 TS of all series (TS-90, TS-90-kv, TS-90-V, TS-98-V and TS-FV).

HERZ AS before 1965 (page 4)

Due to the age of these valves, a conversion adapter is not provided. The installed valves are to be exchanged:

- Straight model: Exchange for TS-90 construction series D.
- Angle model: Swap against TS-90 with the longer tailpiece (see selection table) installed.

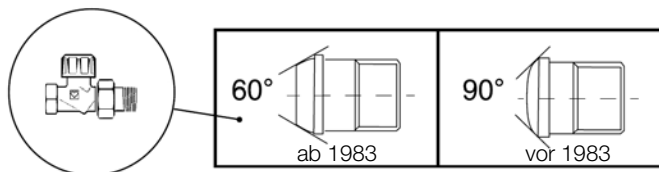
HERZ AS 1965 to 1978 (page 4)

Due to the age of these valves, a conversion adapter is not provided. The installed valves are to be exchanged:

- Straight model: Swap against TS-90 with the longer tail piece 1 (see selection table) installed.
- Angle model: Exchange for TS-90 with the longer tail piece (see selection table) installed.

HERZ AS-T 1978 - 1992 (Page 4)

If valve replacement is necessary due to damaged valves, the TS-90 models are easy to install as a replacement. If the valves to be modernized were installed after 1983, even the tail piece can remain installed because the same cone angle is present.



If no TS-90 models are to be used, the thermostatic insert 1 6376 00 (3/8 "-1/2") or 1 6376 02 (3/4 ") can be installed in the existing body.

HERZ AS-T-90 from 1992 (page 4)

Modification of these models is to be carried out on TS-90 using the standard TS-90 inserts without draining the installation using the HERZ CHANGEFIX replacement unit.

HERZ ID 1965 - 1970 (page 4)

Due to the age of these valves, a conversion adapter is not provided. The installed valves are to be exchanged:

- Straight and angle Models: Swap against TS-90 where the longer tail piece (see selection table) is to be installed.

HERZ GP 1970 - 1978 (Page 4)

These models cannot be fitted with a conversion adapter to accommodate standard TS-90 inserts.

To simplify later service work, a valve exchange must be made on TS-90 valves.

- Straight and Angle Models: Swap against TS-90 with the tail piece (see selection table) installed.

If no TS-90 models are to be used, the thermostatic insert 1 6376 00 (3/8 "-1/2") or 1 6376 02 (3/4 ") can be installed in the existing body.

HERZ GP-T 1978 - 1992 (Page 5)

If valve replacement is necessary due to damaged valves, the TS-90 models are easy to install as a replacement. If the valves to be modernized were installed after 1983, even the threaded sleeve can remain installed because the same cone angle is present.

If no TS-90 models are to be used, the thermostatic insert 1 **6376 00** (3/8"-1/2") or 1 **6376 02** (3/4 ") can be installed in the existing body.

HERZ GP from 1992 (page 5)

The conversion to thermostatic valves and body replacement is not possible due to the crimped upper part. Damaged valves must be replaced with a TS-90 or GP valve.

HERZ TS 1971 to 1972 (Page 5)

These models cannot be fitted with a conversion adapter to accommodate standard TS-90 inserts. To simplify subsequent service work, a valve exchange must be carried out on TS-90 valves.

Valve replacement:

- Straight model: Swap against TS-90 with the tail piece (see selection table) installed.
- Angle model: Exchange for TS-90, with the new valves being the same size.

HERZ TS 1973 to 1977 (Page 5)

These models cannot be fitted with a conversion adapter to accommodate standard TS-90 inserts. To simplify subsequent service work, a valve exchange on TS-90 valves is required.

Valve replacement:


- Straight model: Swap against TS-90 with the longer threaded bushing (see selection table) installed.
- Angle model: Exchange for TS-90, with the new valves being the same size.

Operation of these thermostatic heads is only possible with the current HERZ thermostatic head 1 **7235 01**.

Valve equipment with thermostatic heads

In the case of equipment with manual regulating valves, the position of the handwheel was not critical for the functioning of the heating system - the mere fact that adjustment could be achieved was quite sufficient. This is different with thermostatic heads: The room temperature can only be optimally regulated if the room air can pass unhindered to the sensor. Often, however, heavy curtains and / or furniture hinder air circulation or heat-emitting devices affect the scheme. If a thermostatic head with a fixed sensor cannot be mounted in a horizontal position and as freely accessible as possible, the room temperature is only regulated inaccurately.

Selection table for long threaded bushes

Model		Dim.	Order number
	Long threaded bush without nut, with cone. Can be shortened to even out installation dimension differences.	3/8 x 40	1 6218 00
		1/2 x 76	1 6218 01
		3/4 x 70	1 6218 02

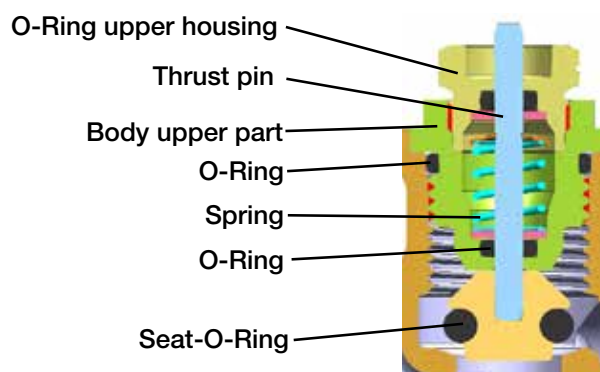
HERZ TS 1978 to 1991 (page 5)

If valve replacement is necessary due to damaged valves, the TS-90 models are easy to install as replacements. If the valves to be modernized were installed after 1983, even the tail piece can remain installed because the same cone angle is present.

If no TS-90 models are to be used, the thermostatic insert 1 **6376 00** (3/8 "-1/2") and 1 **6376 02** (3/4 ") can be installed in the existing body.

HERZ TS-90 from 1992 (page 5)

The conversion to current TS-90 inserts is possible with the help of the HERZ CHANGEFIX (replacement unit) 1 **7780**. A conversion to pre-settable upper parts (TS-98-V, TS-90-V, TS-99-FV) is only possible with 1/2 "valves, or with pre-settable valves DN10 and DN20.



History HERZ-TS thermostatic valves

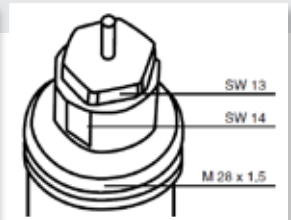
1971 - 1972

No spare parts available anymore.



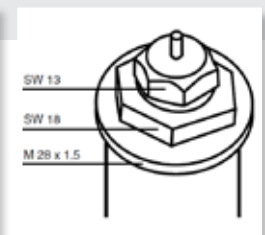
1973 - 1977

HERZ-TS and HERZ-TS-L (luxury version, nickel-plated), no spare parts available, thermostatic head 1 **7235 01** can be used.



1978 - 1991

HERZ-TS and HERZ-TS-L (luxury version, nickel-plated), from 1985 all valves were nickel-plated. Connection thread for thermostatic head M 28 x 1.5 on upper part, upper part with hexagon O-ring screw, spindle \varnothing 2.2 mm Replacement upper part 1 **6376 00** for dim. 3/8 "and 1/2", 1 **6376 02** for Dim 3/4 ". Manual operation and all Thermostatic heads from the current product range possible.



1991 - heute

HERZ-TS-90

nickel-plated version, connection thread for thermostatic head on valve body M 28 x 1.5, upper part with hexagon O-ring screw, spindle \varnothing 3 mm

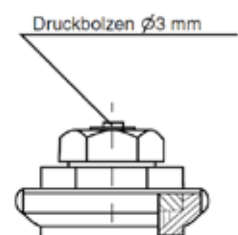
Spare Parts:

O-ring set 1 **6890 00**

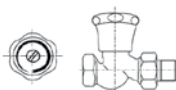
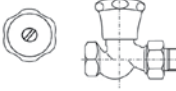
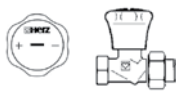

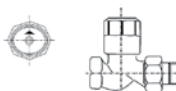
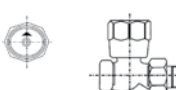
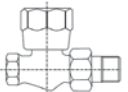
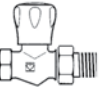


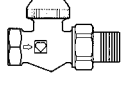
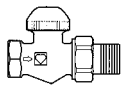
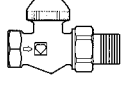

Upper parts 3/8 "1 **6390 90**, 1/2" 1 **6390 91**, 3/4 "1 **6390 92**, 1" 1 **6390 93**

Manual operation and all thermostatic heads from the current product range possible.

Further versions: TS-90-V, TS-98-V, TS-90-E, TS-99-FV, TS-90-kv, DE LUXE



Overview

Valve	Year	Merkmale	Characteristics	Seal	Kit	Comment
AS 6123 6124	before 1965	Valve yellow, Handwheel cream markings black	Red O-ring box 1 6710 00	Seal under pressure exchangeable; Valve must be fully opened	Cannot be thermostatic	
AS 6123 6123	1965- 1978	Valve yellow, Handwheel cream markings black	Red O-ring box 1 6710 00	Seal under pressure exchangeable; Valve must be fully opened	Cannot be thermostatic	
AS-T 6823 6824	1978- 1992	Valve nickel- plated, Handwheel gray markings anthra- cite	<u>Dim. 3/8, 1/2, 3/4: O-ring box yel- low 1 6810 00</u> <u>Dim. 1 "and 5/4":</u> <u>Red O-ring box</u> <u>1 6710 00</u>	Seal under pressure exchangeable; Valve must be fully opened	Can be thermostatic with adapter 1 6376 00 for 3/8 and 1/2 and 1 6376 02 for 3/4; system must be drained	
AS-T-90 6823 6824	1992-	Valve nickel- plated, Handwheel white marking white	Top 1 6310 xx	Top under pressure using the Lock 1 7780 00 exchangeable	Can be thermostatic with current thermostatic tops. Under pressure: only with lock 1 7780 00	
ID 6023 6024	1965- 1970	Valve yellow, Handwheel cream round	O-Ring-Set 1 6705 00	Seal under pressure exchangeable; Valve must be fully opened	Cannot be thermostatic	
GP 5023 5024	1970- 1978	Valve yellow, Handwheel cream 8-sided	no gasket set available		Can be thermostatic with adapter 1 6376 00 for 3/8 and 1/2 and 1 6376 02 for 3/4; system must be drained	
GP-T 5823 5824	1978- 1992	Valve nickel- plated, Handwheel gray 8-sided	O-Ring-Set 1 6705 00	Seal under pressure exchangeable; Valve must be fully opened	Can be thermostatic with adapter 1 6376 00 for 3/8 and 1/2 and 1 6376 02 for 3/4; system must be drained	
GP 5523 5524	1992-	Valve nickel- plated, Handwheel white	<u>Seal set without presetting:</u> 1 6701 00 <u>Seal kit with presetting:</u> 1 6702 00	Seal under pressure exchangeable; slight water leakage	Cannot be thermostatic	
TS alt 7123 7124	1971- 1978	Valve yellow, thermostat insert with pressure pin Ø 2.2 mm, stroke 4 mm	no sealing set available	no spare tops avail- able	Replacement thermostatic head 1 7235 01 (1973-1977)	
TS alt 7823 7824	1978- 1991	Valve nickel-plat- ed, thermostat in- sert with pressure pin Ø 2.2 mm, stroke 2 mm	no sealing set available		<u>Spare upper part:</u> adapter 1 6376 00 for 3/8 "and 1/2" and 1 6376 02 for 3/4 "; system must be drained	
TS-90 TS-90-kv 7723/13 7724/14	1991-	Valve nickel- plated, thermostat insert with pres- sure pin Ø 3 mm	O-ring screw 1 6890 00	Seal under pressure exchangeable; slight water leakage	For the replacement of the upper part current thermostatic parts can be used. <u>Under pressure:</u> only with changefix tool 1 7780 00	
TS-90-V 7723 7724	1991-	Valve nickel- plated, thermostat insert with pres- sure pin Ø 3 mm	no sealing set available		For the replacement of the upper part current thermostatic parts can be used. <u>Under pressure:</u> only with lock 1 7780 00	
TS-90-E 7723 7724	1996-	Nickel-plated valve, thermostat insert with pres- sure pin Ø 3 mm; with low resistance	O-ring screw 1 6890 00	Seal under pressure exchangeable; slight water leakage	<u>Upper part replacement:</u> insert 1 6379 02; <u>Under pressure:</u> only with CHANGEFIX 1 7780 00	
TS-E 7723 7724	1996-	Nickel-plated valve, thermo- stat insert with pressure pin Ø 3 mm; with low resistance	O-ring screw 1 6890 00	Seal under pressure exchangeable; slight water leakage	<u>Upper part replacement:</u> insert 1 6379 03; not exchangeable under pressure	

Overview thermostatic inserts (Herz thermostatic valves from year of construction 1990)

Thermostatic inserts TS-90



Thermostatic insert TS-90,
1 **6390 90** (3/8 ")
Protective cap white
Thread M 17 x 1.5

for TS-90, AS-T-90 (3/8 ") from year 1991,
replacement under pressure with CHANGE-
FIX 1 **7780 00**



Thermostatic insert TS-90,
1 **6390 91** (1/2 ")
Protective cap white
Thread M 17 x 1.5

for TS-90, HERZ-3000, VUA, VTA (2-pipe),
AS-T-90 (1/2 ") from year 1991, replace-
ment under pressure with CHANGEFIX 1
7780 00



Thermostatic insert TS-90,
1 **6390 92** (3/4")
Protective cap white
Thread M 17 x 1.5

for TS-90, VUA, VTA (1-pipe), AS-T-90 (3/4")
from year 1991, replacement under pressure
with CHANGEFIX 1 **7780 00**



Thermostatic insert TS-90,
1 **6390 93** (1")
Protective cap white
Thread M 20 x 1,5

for TS-90, replacement under pressure
with CHANGEFIX 1 **7780 00**

Thermostatic insert TS-90-V



Thermostatic insert TS-90-V, 1 **6367 97** (3/8", 1/2", 3/4")
Protective cap red
Thread 17x1.5 mm
Presetting with key 1 **6809 67**

for TS-90-V, HERZ-3000, VUA, VTA (2-pipe), AS-T-90 (3/8
", 1/2") from year 1991, replacement under pressure with
CHANGEFIX 1 **7780 00**

Thermostatic insert TS-98-V



Thermostatic insert TS-98-V, 1 **6367 98** (3/8", 1/2", 3/4")
Protective cap orange
Thread 17x1.5 mm
Presetting with key 1 **6819 98**

for TS-98-V, HERZ-3000, VUA, VTA (2-pipe), AS-T-90 (3/8
", 1/2") from year 1991, replacement under pressure with
CHANGEFIX 1 **7780 00**

Thermostatic insert TS-99-FV



Thermostatic insert TS-90-V, 1 **6367 99** (3/8", 1/2")
Protective cap purple
Thread 17x1.5 mm
Presetting with key 1 **6819 98**

for TS-FV, HERZ-3000, VUA, VTA (2-pipe), AS-T-90 (3/8
", 1/2") from year 1991, replacement under pressure with
CHANGEFIX 1 **7780 00**

Thermostatic inserts with fixed kv values



Thermostatic insert TS-90
 1 6365 69 (1/2")
 Blue protective cap
 Thread M 17x1.5 mm
 Marking on the upper part "B"
 Label on valve colour ring "Blue"
 Kv = 0.06
 for TS-90 (1/2"), exchange under pressure
 with CHANGEFIX 1 7780 00



Thermostatic insert TS-90
 1 6365 79 (1/2")
 Protective cap green
 Thread M 17x1.5 mm
 Marking on the upper part "C"
 Label on valve colour ring "Green"
 Kv = 0.12
 for TS-90 (1/2"), exchange under pressure
 with CHANGEFIX 1 7780 00



Thermostatic insert TS-90
 1 6365 89 (1/2")
 Protective cap yellow
 Thread M 17x1.5 mm
 Marking on the upper part "D"
 Label on valve colour ring "yellow"
 Kv = 0.25
 for TS-90 (1/2"), exchange under pressure
 with CHANGEFIX 1 7780 00



Thermostatic insert TS-90
 1 6365 99 (1/2")
 Protective cap white
 Thread M 17x1.5 mm
 Marking on the upper part "E"
 Marking on valve colour ring "White"
 Kv = 0.5
 for TS-90 (1/2"), exchange under pressure
 with CHANGEFIX 1 7780 00

Thermostatic insert TS-90-E



Thermostatic insert TS-90-E
 1 6379 02 (1/2")
 Protective cap white
 Thread M 20 x 1.5 mm
 for TS-90-E (1/2"), replacement under pressure
 with CHANGEFIX 1 7780 00

Thermostatic adaptation of HERZ regulating valves



Ventiloberteil zur Umrüstung von HERZ-AS-T und GP-T Ventilen ab Baujahr 1978, auf thermostatischen Betrieb,
 1 6376 00 (3/8", 1/2")
 Gewinde M 19 x 1,0 mm



Ventiloberteil zur Umrüstung von GP-T und HERZ-AS-T ab Baujahr 1978, auf thermostatischen Betrieb,
 1 6376 02 (3/4")

TS-E



Ventiloberteil TS-E
 1 6379 03 (1/2"-1")
 Bauschutzkappe weiß
 Gewinde M 28 x 1,5 mm
 für TS-E (1/2"-1"), Austausch unter Druck
 nicht möglich

TS-D



Thermostatoberteil für DIN Ventile
 Baujahr 1986-1990
 1 6379 00 (3/8", 1/2")
 Gewinde M 20 x 1,5 mm

TS-98-VH



Thermostatoberteil 1 6398 98
 Bauschutzkappe hellgrau
 Gewinde M 17x1,5 mm für TS-98-VH (3/8", 1/2")
 Austausch mit Changefix
 Gewinde M 30 x 1,5 mm

Selection table Fix kv

Heating Output (W)	Temperature difference = 20 K Differential pressure in kPa					Temperature difference = 30 K Differential pressure in kPa				
	6	8	10	12	14	6	8	10	12	14
300	B	B	B	B	B	B	B	B	B	B
400	B	B	B	B	B	B	B	B	B	B
500	C	C	B	B	B	B	B	B	B	B
600	C	C	C	C	B	B	B	B	B	B
700	C	C	C	C	C	C	B	B	B	B
850	D	C	C	C	C	C	C	C	C	B
1000	D	D	C	C	C	C	C	C	C	C
1200	D	D	D	D	C	D	C	C	C	C
1400	D	D	D	D	D	D	D	C	C	C
1600	D	D	D	D	D	D	D	D	C	C
1800	E	D	D	D	D	D	D	D	D	C
2000	E	E	D	D	D	D	D	D	D	D
2200	E	E	E	D	D	D	D	D	D	D
2500	E	E	E	E	E	E	D	D	D	D
2800	E	E	E	E	E	E	E	D	D	D
3200		E	E	E	E	E	E	E	D	D
3600			E	E	E	E	E	E	E	D
4200					E	E	E	E	E	E
5000									E	E
6000										E

Code letter	k_v at $x_p = 2$	Order number	Color
B	0,06	1 77xx 69	Blue
C	0,12	1 77xx 79	Green
D	0,25	1 77xx 89	Yellow
E	0,50	1 77xx 99	White

Manual regulating valves 1978-1991 (AS-T and GP-T)

Service for HERZ AS-T



1. The valve must be fully opened by turning it to the left until it stops. Remove handwheel.



2. Loosen the O-ring guide nut and remove the O-ring with the Klingerit seal (hold the upper part).



3. Clean the spindle and O-ring guide nut (use the O-ring box cutter). Sharp-edged objects will damage the Sealing surfaces!



4. Ready-to-mount greased O-ring with Klingerit gasket in the box remove.



5. Mount sealing elements in the following order:
1. Klingerit seal
2. O-ring
3. O-ring guide nut



6. Tighten O-ring guide nut moderately and replace handwheel

Service for HERZ GP-T



1. Close the valve.
2. Mark the preset value.
3. Pull off handwheel.



4. Firmly open the valve with the grooved end of the key wrench until it stops.



5. O-ring chamber with grooved loosen key by turning counter-clockwise and unscrew.



6. Fit new O-ring chamber and tighten firmly with key.

7. Close the valve.
8. Set the handwheel at the marked value, with value 7 for non-pre-set valves.
9. Screw in handwheel fixing screw.

For non-preset valves, items 1 and 2 are omitted.

When valves are greased, always only use silicone-based greases. Bicycle oils, MoS₂ or similar destroy the sealing rings.

Overview of valves

60s



HERZ AS
6123, 6124



HERZ AS
6123, 6124



HERZ ID
6023, 6024

70s



HERZ AS
6123, 6124



HERZ AS-T
6823, 6824



HERZ GP
5023, 5024



HERZ TS
7123, 7124



HERZ TS
7123, 7124

80s



HERZ AS-T
6823, 6824



HERZ GP-T
5823, 5824



HERZ TS
7123, 7124, 7123 L

90s



HERZ AS-T
6823, 6824



HERZ AS-T-90
1 6823 9x, 1 6824 9x



HERZ GP-T
5823, 5824



HERZ GP
5523, 5524



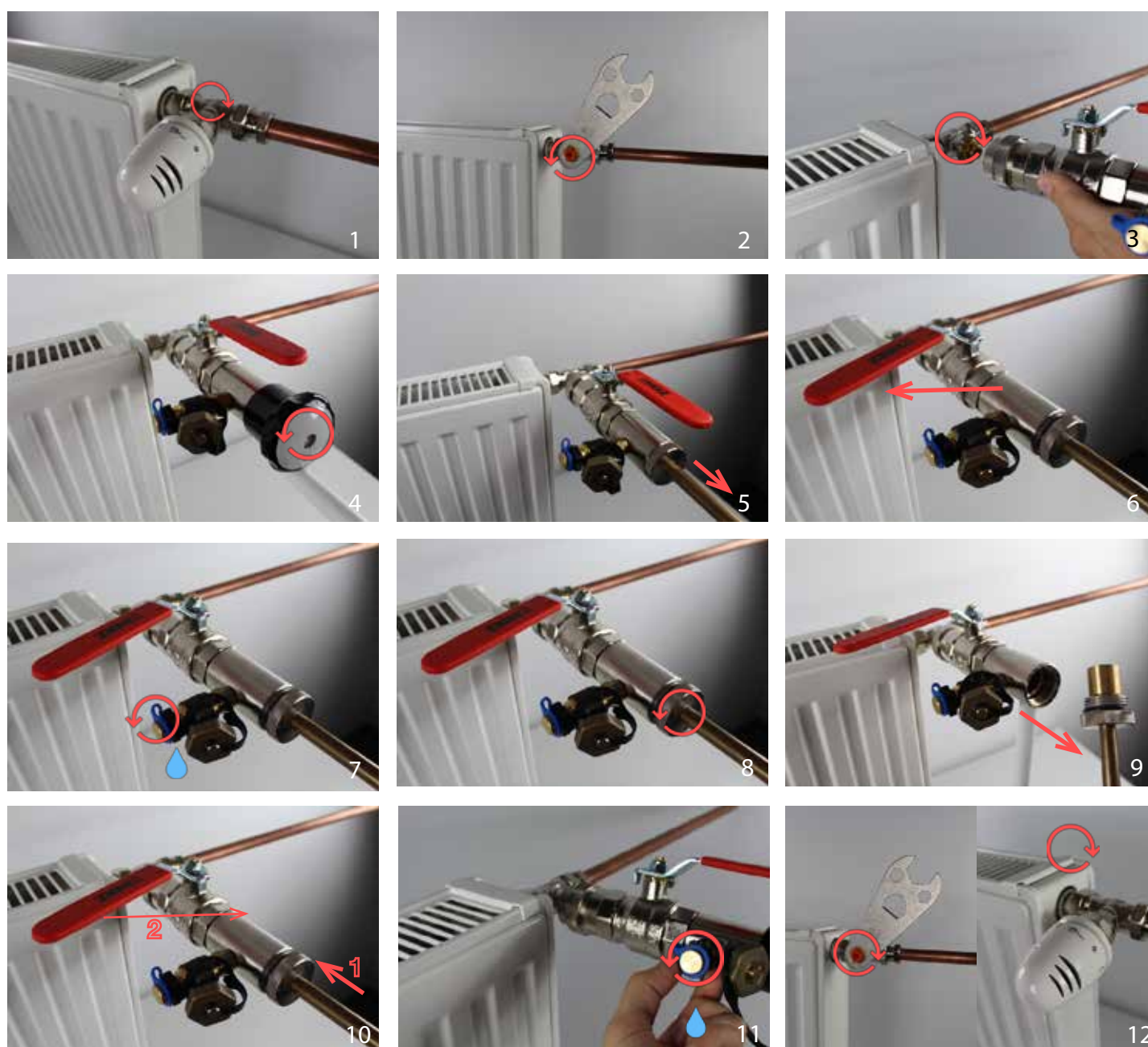
HERZ TS-90
siehe Seite 8

Thermostatic valve exchange without system draining



HERZ-Changefix

	EAN 90 04174	Order- number
HERZ CHANGEFIX Replacement device for HERZ thermostatic valve body parts with connection thread M 28 x 1.5	71260 9	1 7780 00
HERZ CHANGEFIX Replacement device for HERZ thermostatic valve body parts "H" with connection thread M 30 x 1.5	74160 9	1 7780 98
Seal kit Replacement seal set for HERZ CHANGEFIX	71270 8	1 7780 04
Pressure Measurement Accessories for measuring the differential pressure or the static pressure at closed valve using HERZ measuring instruments 1 8900 and 1 8903	71280 7	1 7781 00
Cleaning Brush Set for the valve seat cleaning in the course of the replacement of parts	73240 9	1 7781 01





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