www.herz.eu

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 modernised, 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.

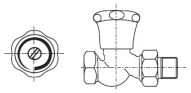
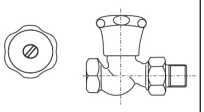
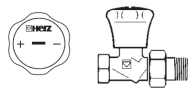
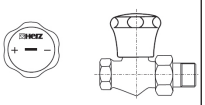
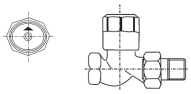
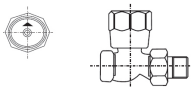
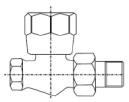
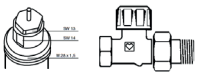
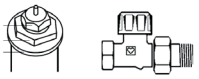
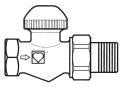
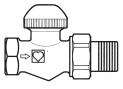
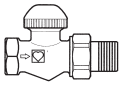
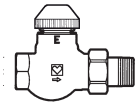
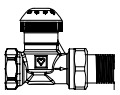
Product

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 presetting
- TS-98-V thermostatic valve with continuous presetting and readout
- TS-90-E thermostatic valve with reduced resistance
- TS-99-FV thermostatic valve with ultra-fine presetting and readout
- TS-E thermostatic valve with the lowest resistance
- TS-120-V SMART thermostatic valve with automatic flow control

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**.

Overview

Valve	Year built	Features	Sealing set	Comment	Comment	Illustration
AS **6123** **6124**	from 1965	Valve yellow, Handwheel cream Black disc	O-Ring-Box red 1 **6710** 00	Seal can be replaced under pressure; valve must be fully opened	Not thermostatisable	
AS **6123** **6123**	1965-1978	Valve yellow, Handwheel cream Black disc	O-Ring-Box red 1 **6710** 00	Seal can be replaced under pressure; valve must be fully opened	Not thermostatisable	
AS-T **6823** **6824**	1978-1992	Valve nickel-plated, Handwheel grey Plate anthracite	Dim. 3/8", ½", ¾": O-Ring-Box yellow 1 **6810** 00 Dim. 1" and 5/4": O-Ring-Box red 1 **6710** 00	Seal can be replaced under pressure; valve must be fully opened	Thermostatable with adapter 1 **6376** 00 for 3/8" and ½" and 1 **6376** 02 for ¾"; System must be emptied	
AS-T-90 **6823** **6824**	1992-	Valve nickel-plated, Handwheel white Plate white	Upper part 1 **6310** xx	Upper part under pressure using the airlock 1 **7780** 00 exchangeable	Can be thermostated with with current thermostatic top units. Pressurised: only with airlock 1 **7780** 00	
ID **6023** **6024**	1965-1970	Valve yellow, Handwheel cream round	O-Ring-Set 1 **6705** 00	Seal can be replaced under pressure; valve must be fully opened	Not thermostatisable	
GP **5023** **5024**	1970-1978	Valve yellow, Handwheel cream 8-cornered	no sealing set available		Thermostatable with adapter 1 **6376** 00 for 3/8" and ½" and 1 **6376** 02 for ¾"; system must be drained	
GP-T **5823** **5824**	1978-1992	Valve nickel-plated, Handwheel grey 8-cornered	O-Ring-Set 1 **6705** 00	Seal can be replaced under pressure; valve must be fully opened	Thermostatable with adapter 1 **6376** 00 for 3/8" and ½" and 1 **6376** 02 for ¾"; system must be drained	
GP **5523** **5524**	1992-	Valve nickel-plated, Handwheel white	Gasket set without presetting: 1 **6701** 00 Gasket set with presetting: 1 **6702** 00	Seal can be replaced under pressure; slight water leakage	Not thermostatisable	
TS old **7123** **7124**	1971-1978	Valve yellow, thermostatic insert with pressure bolt Ø 2,2 mm, stroke 4 mm	no gasket set available	No replacement tops available	Replacement thermostatic head 1 **7235** 01 (1973-1977)	
TS old **7823** **7824**	1978-1991	Nickel-plated valve, thermostatic insert with pressure bolt Ø 2,2 mm, stroke 2 mm	no gasket set available		Spare upper part: Adapter 1 **6376** 00 for 3/8" and ½" and 1 **6376** 02 for ¾"; system must be drained	
TS-90 TS-90-kv **7723/13** **7724/14**	1991-	Nickel-plated valve, thermostatic insert with pressure bolt Ø 3 mm	O-Ring-Bolt 1 **6890** 00	Seal can be replaced under pressure; slight water leakage	For which current thermostat top parts can be used. Pressurised: nur mit Schleuse 1 **7780** 00	
TS-90-V **7723** **7724**	1991-	Nickel-plated valve, thermostatic insert with pressure bolt Ø 3 mm	no gasket set available		Current upper thermostat parts can be used to replace the upper part. Pressurised: only with lock 1 **7780** 00	
TS-90-E **7723** **7724**	1996-	Nickel-plated valve, thermostatic insert with pressure bolt Ø 3 mm; with low resistance	O-Ring-Bolt 1 **6890** 00	Seal can be replaced under pressure; slight water leakage	Upper part exchange: Adapter 1 **6379** 02; Pressurised: only with airlock 1 **7780** 00	
TS-E **7723** **7724**		Valve nickel-plated, thermostatic insert with pressure bolt Ø 3 mm; with low resistance	O-Ring-Bolt 1 **6890** 00	Seal can be replaced under pressure; slight water leakage	Upper part exchange: Adapter 1 **6379** 03; not interchangeable under pressure	
TS-120-V SMART **7623** **7624** **7628**	2024-	Nickel-plated valve, thermostatic insert with pressure bolt Ø 3 mm, with automatic flow control	-	-	Upper part can be exchanged under pressure	

Overview HERZ manual regulating valves and thermostatic valves (TS)

Group AS from 1965 to today

HERZ AS before 1965


6123
6124

yellow, handwheel cream
Indicator black with screw
Spindle with square

HERZ AS 1965 - 1978



6123
6124

yellow, handwheel cream
Indicator black smooth with screw

HERZ AS-T 1978 - 1992


6823
6824

nickel plated, handwheel gray
Indicator anthracite matt

HERZ AS-T-90 from 1992


1 **6823** 9x
1 **6824** 9x

nickel plated, hand wheel white
Indicator white

Group ID

HERZ ID 1965 - 1970


6023
6024

yellow, handwheel cream,
round with screw

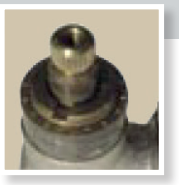
Group GP

HERZ GP 1970 - 1978


5023
5024

yellow, handwheel cream
8-sided

HERZ GP-T 1978 - 1992

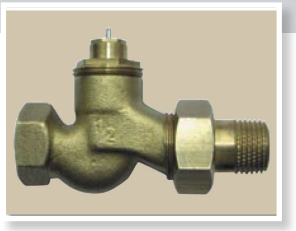
5823 nickel plated, handwheel gray
5824 8-sided

HERZ GP from 1992



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

HERZ TS 1971 - 1972



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

HERZ TS 1973 - 1977

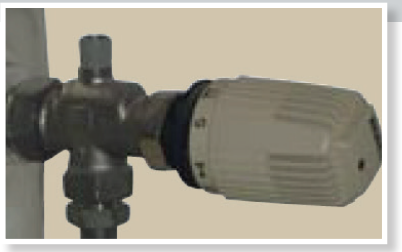


7123 yellow or nickel plated,
7124 head mounting thread on the body, upper part round with two flats

HERZ TS from 1982


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

HERZ TS-90 from 1992




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 TS-120-V SMART



7623 nickel-plated
7624 orange cap orange
7628 head thread on housing

HERZ special items for conversions

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	Eckform
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

Long threaded bush	1 **6218** 00

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

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 (Seite 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)

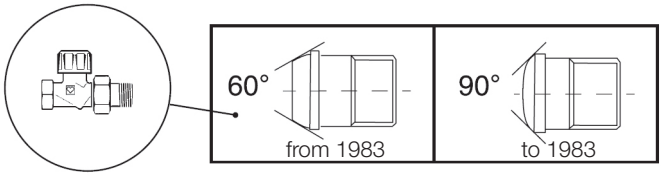
Due to the age of these valves, a conversion adapter is not provided. The installed valves are to be exchanged:

• 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"-½") or 1 **6376** 02 (¾") 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"-½") or 1 **6376** 02 (¾") 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"-½") or 1 **6376** 02 (¾") 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.

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
		½ x 76	1 **6218** 01
		¾ x 70	1 **6218** 02

HERZ TS 1978 to 1991 (page 5)

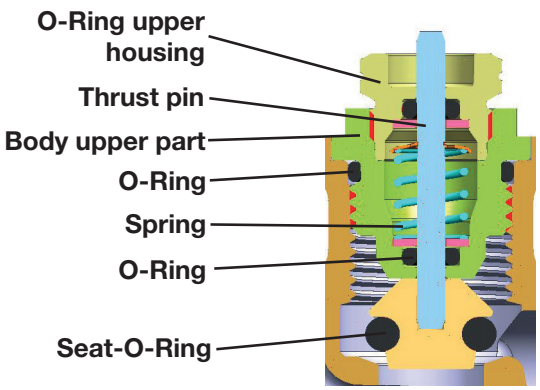
If valve replacement is necessary due to damaged valves, the TS-90 models are easy to install as replacements. If the valves to be modernized were installed after 1983, even the tail piece can remain installed because the same cone angle is present. If no TS-90 models are to be used, the thermostatic insert 1 **6376** 00 (3/8"-½") and 1 **6376** 02 (¾") 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 (servicing tool) 1 **7780**. A conversion to pre-settable upper parts (TS-98-V, TS-90-V, TS-99-FV is only possible with ½" valves, or with pre-settable valves DN10 and DN20.

HERZ TS-120-V SMART from 2024 (page 5)

The dynamic upper parts can be replaced under pressure using the HERZ CHANGEFIX (servicing tool) under pressure.



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.

Overview of thermostatic inserts (HERZ Thermostatic valves from year 1990)

Thermostatic inserts TS-90

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

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

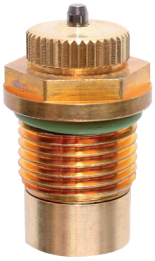
Thermostatic insert TS-90,
1 **6390** 91 (½")
Protective cap white
Thread M 17 x 1.5 mm

for TS-90, HERZ-3000, VUA, VTA (2-pipe), AS-T-90 (½") from year 1991, replacement under pressure with CHANGEFIX 1 **7780** 00

Thermostatic insert TS-90,
1 **6390** 92 (¾")
Protective cap white
Thread M 17 x 1.5 mm
for TS-90, VUA, VTA (1-pipe), AS-T-90 (¾") 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 mm
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", ½", ¾")
Protective cap red
Thread M 17 x1.5 mm
Presetting with key 1 **6809** 67
for TS-90-V, HERZ-3000, VUA, VTA (2-pipe), AS-T-90 (3/8", ½") 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", ½", ¾")
Protective cap orange
Thread M 17 x 1.5 mm
Presetting with key 1 **6819** 98
for TS-98-V, HERZ-3000, VUA, VTA (2-pipe), AS-T-90 (3/8", ½") 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", ½")
Protective cap purple
Thread 17 x 1.5 mm
Presetting with key 1 **6819** 98

for TS-FV, HERZ-3000, VUA, VTA (2-pipe), AS-T-90 (3/8", ½") from year 1991, replacement under pressure with CHANGEFIX 1 **7780** 00

Thermostatic inserts with fixed kv values

Thermostatic insert TS-90
1 **6365** 69 (½")
Blue protective cap
Thread M 17 x 1.5 mm
Marking on the upper part "B"
Label on valve colour ring "Blue"
Kv = 0.06
for TS-90 (½"), exchange under pressure
with CHANGEFIX 1 **7780** 00

Thermostatic insert TS-90
1 **6365** 89 (½")
Protective cap yellow
Thread M 17x 1.5 mm
Marking on the upper part "D"
Label on valve colour ring "yellow"
Kv = 0.25
for TS-90 (½"), exchange under pressure
with CHANGEFIX 1 **7780** 00

Thermostatic insert TS-90
1 **6365** 79 (½")
Protective cap green
Thread M 17 x 1.5 mm
Marking on the upper part "C"
Label on valve colour ring "Green"
Kv = 0.12
for TS-90 (½"), exchange under pressure
with CHANGEFIX 1 **7780** 00

Thermostatic insert TS-90
1 **6365** 99 (1/2")
Protective cap white
Thread M 17 x 1.5 mm
Marking on the upper part "E"
Marking on valve colour ring "White"
Kv = 0.5
for TS-90 (½"), exchange under pressure
with CHANGEFIX 1 **7780** 00

Thermostatic insert TS-90-E

Thermostatic insertTS-90-E
1 **6379** 02 (½")
Protective cap white
Thread M 20 x 1.5 mm
for TS-90-E (½"), replacement under pressure
with CHANGEFIX 1 **7780** 00

Thermostatic adaptation of HERZ regulating valves

Thermostatic upper part for conversion from HERZ-AS and GP-T manual regulation valves,
1 **6376** 00 (3/8", ½")
Thread M 19 x 1.0 mm

Thermostatic upper part for converting GP-T and HERZ-AS-T from 1978 onwards to thermostatic operation,
1 **6376** 02 (¾")

TS-E

Ventiloberteil TS-E
1 **6379** 03 (½" - 1")
Protective cap white
Thread M 28 x 1.5 mm
for TS-E (½" - 1"), replacement under pressure not possible

TS-D

Thermostatic insert for DIN Valve
Year of construction 1986-1990
1 **6379** 00 (3/8", ½")
Thread M 20 x 1.5 mm

TS-98-VH

Thermostatic insert
1 **6398** 98
Protective cap light grey
Thread M 17 x 1.5 mm for TS-98-VH (3/8", ½")
Replacement mit CHANGEFIX
Thread M 30 x 1.5 mm

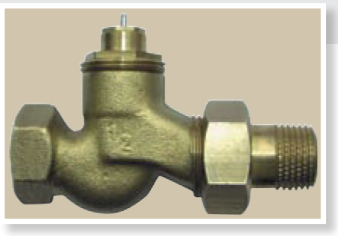
TS-120-V SMART

Thermostatic insert for TS-120-V SMART
Protective cap orange
M 22 x 1.5 mm for
TS-120-V SMART (½")

History of HERZ-TS Thermostatic valves

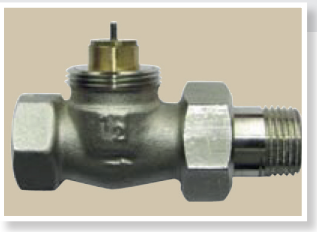
1971 - 1972

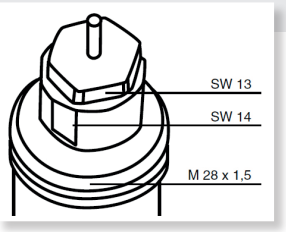
No spare parts available anymore.



1973 - 1977

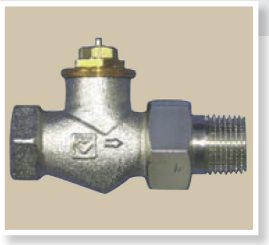
HERZ-TS and HERZ-TS-L (luxury version, nickel-plated), no spare parts available, thermostatic head 1 **7235** 01 can be used.

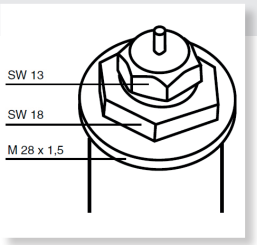




1978 - 1991

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 mm on upper part, upper part with hexagon O-ring screw, spindle Ø 2.2 mm, replacement upper part 1 **6376** 00 for dim. 3/8" and ½", 1 **6376** 02 for dim. ¾". Manual operation and all thermostatic heads from the current product range possible.





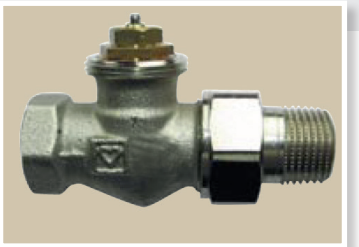
1991 - today

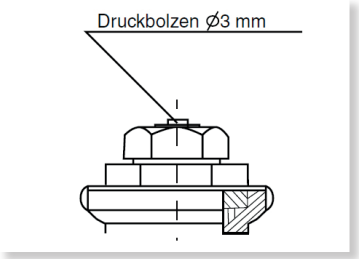
HERZ-TS-90
nickel-plated version, connection thread for thermostatic head on valve body M 28 x 1.5 mm, upper part with hexagon O-ring screw, spindle Ø 3 mm

Spare parts:
O-ring set 1 **6890** 00
Upper parts 3/8" - 1 **6390** 90, ½" - 1 **6390** 91, ¾" - 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





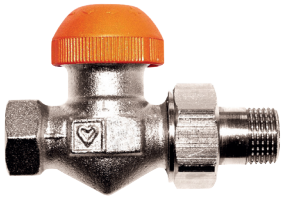
TS-120-V SMART

Dynamic thermostatic valves are installed directly on radiators and combine the classic thermostatic valve with a differential pressure controller in one housing. The integrated differential pressure controller ensures that the required amount of water is available to each radiator. With a mounted HERZ thermostatic head, the required amount of water is automatically regulated depending on the set temperature.

Order number	Description	DN	Rp, "	R, "	L, mm	H, mm	h, mm	k_{VS} value, m^3/h at 2K	Connection
1 **7623** 51	Series „F“ Straight	15	1/2	1/2	82.3	31.5	-	0.35	M 28 x 1.5
1 **7624** 51	Series „F“ Angle	15	1/2	1/2	53.3	32.5	23	0.35	M 28 x 1.5
1 **7628** 51	Series „F“ Reverse angle	15	1/2	1/2	53.3	40.6	23	0.35	M 28 x 1.5

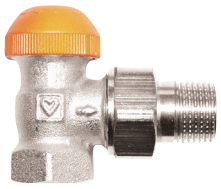
HERZ - Thermostatic valves M 28 x 1.5

Straight*



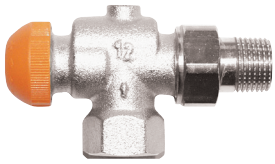
	DN10 Rp 3/8"	DN15 Rp ½"	DN15 G ¾" AG	DN20 Rp ¾"	DN25 Rp 1"
TS-99-FV	1 **7523** 65	1 **7523** 67	-	-	-
TS-90-V	1 **7723** 65	1 **7723** 67	1 **7733** 67	1 **7723** 69	
TS-98-V	1 **7623** 65	1 **7623** 67	1 **7633** 67	1 **7623** 69	
TS-90	1 **7723** 90	1 **7723** 91	1 **7733** 81	1 **7723** 92	1 **7723** 93
TS-90 DIN	1 **7723** 95	1 **7723** 96	-	1 **7723** 97	-
TS-90-E	1 **7723** 00	1 **7723** 01	-	-	-
TS-E	-	1 **7723** 11	-	1 **7723** 02	1 **7723** 03
TS-120-V SMART	-	1 **7623** 51	-	-	

Angle



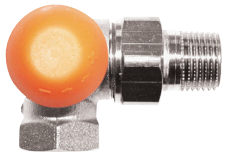
TS-99-FV	1 **7524** 65	1 **7524** 67	-	-	-
TS-90-V	1 **7724** 65	1 **7724** 67	1 **7738** 67	1 **7724** 69	
TS-98-V	1 **7624** 65	1 **7624** 67	1 **7638** 67	1 **7624** 69	
TS-90	1 **7724** 90	1 **7724** 91	1 **7724** 37	1 **7724** 92	1 **7724** 93
TS-90 DIN	1 **7724** 95	1 **7724** 96	-	1 **7724** 97	-
TS-90-E	1 **7724** 00	1 **7724** 01	-	-	-
TS-E	-	1 **7724** 11	-	1 **7724** 02	1 **7724** 03
TS-120-V SMART	-	1 **7624** 51	-	-	-

Reverse angle



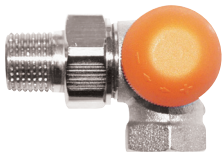
TS-99-FV	1 **7528** 65	1 **7528** 67	-	-	-
TS-90-V	1 **7728** 65	1 **7728** 67	1 **7748** 67	-	-
TS-98-V	1 **7628** 65	1 **7628** 67	1 **7648** 67	-	-
TS-90	1 **7728** 90	1 **7728** 91	1 **7748** 91	1 **7728** 97	-
TS-90-E	1 **7728** 00	1 **7728** 01	-	-	-
TS-E	-	1 **7728** 11	-	1 **7728** 02	1 **7728** 03
TS-120-V SMART	-	1 **7628** 51	-	-	-

3-axis valve “AB”



TS-99-FV	-	-	-	-	-
TS-90-V	-	1 **7758** 67	1 **7745** 67	-	-
TS-98-V		1 **7658** 67	1 **7645** 67	-	-
TS-90	1 **7758** 90	1 **7758** 91	1 **7745** 91	-	-
TS-90-E	-	1 **7758** 01	-	-	-
TS-E	-	-	-	-	-

3-axis valve “CD”



TS-99-FV	-	-	-	-	-
TS-90-V	-	1 **7759** 67	1 **7746** 67	-	-
TS-98	-	1 **7659** 67	1 **7646** 67	-	-
TS-90	1 **7759** 90	1 **7759** 91	1 **7746** 91	-	-
TS-90-E	-	1 **7759** 01	-	-	-
TS-E	-	-	-	-	-

* to be ordered separately: Iron pipe connection bend 90°, nickel-plated brass, conical sealing
1 **6249** 00 (R 3/8”), 1 **6249** 01 (R ½”), 1 **6249** 02 (R ¾”)

Nominal flow rate in l/h (10 kPa) with default settings

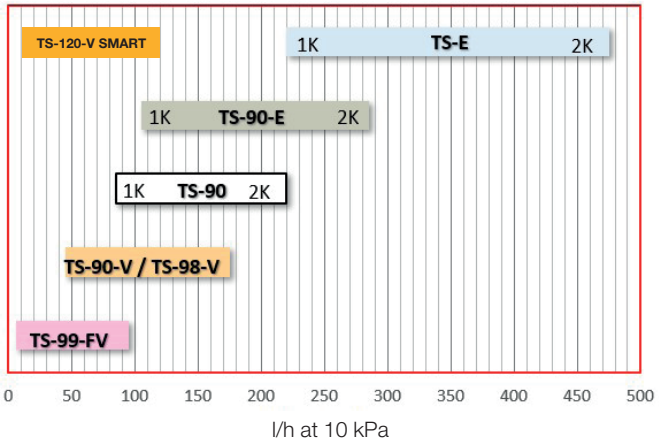
	TS-99-FV	TS-90-V	TS-98-V	TS-120-V SMART
1	6	9	45	10
2	13	16	95	27
3	25	28	135	44
4	50	47	155	61
5	80	63	168	78
6	95	80	175	95
7	-	100	-	-
8	-	125	-	-
9	-	175	-	-
I	-	-	-	120

Purple	TS-99-FV
Red	TS-90-V
Orange	TS-98-V
White	TS-90
White	TS-90-DIN
Gray	TS-90-E
White	TS-E
Orange	TS-120-V SMART

Nominal flow rate (2 K) and flow rate at 1 K and 10 kPa [l/h]

	DN	TS-90	TS-90-E	TS-E
1 K	10	85	105	-
	15	100	140	220
	20	125	-	220
2 K	10	165	190	-
	15	195	285	475
	20	220	-	475
	25	-	-	475

Recommended flow range



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	B	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	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

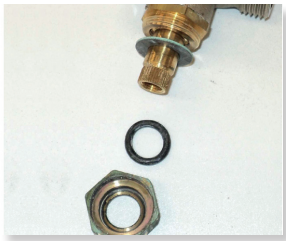
Manual regulating valves 1978-1991 (AS-T and GP-T)

Service for HERZ AS-T

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

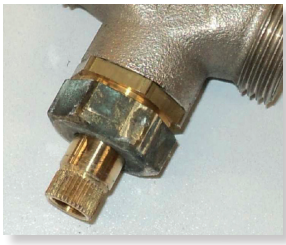
2. Loosen the O-ring guide nut and remove the O-ring with the Klingerit seal (hold the upper part).

3. Clean the spindle and O-ring guide nut (use the O-ring box cutter). Sharpedged 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 counterclockwise and unscrew.

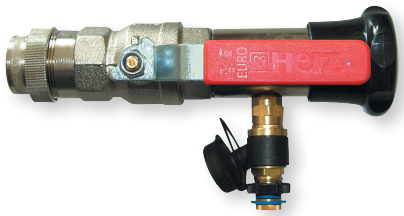
6. Fit new O-ring chamber and tighten firmly with key.

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.

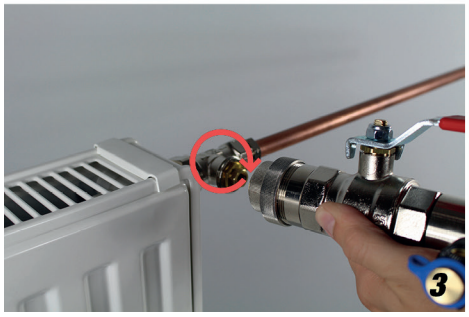
When valves are greased, always only use silicone-based greases. Bicycle oils, MoS_2 or similar destroy the sealing rings.

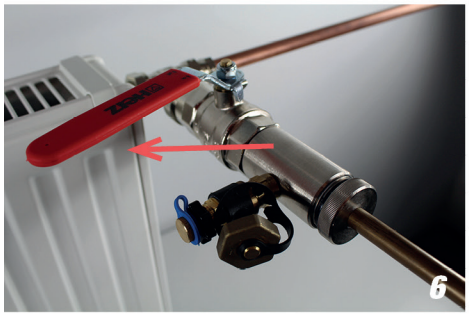
Thermostatic valve replacement without draining the system

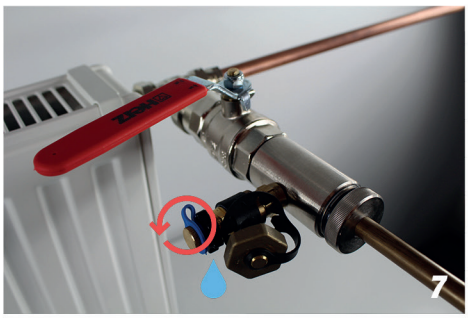


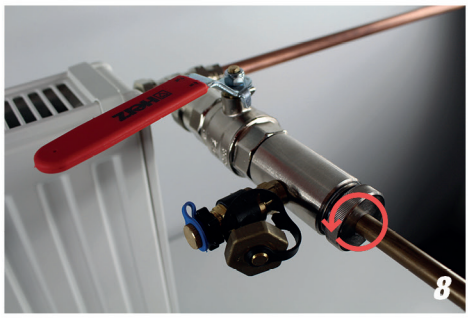
HERZ CHANGEFIX

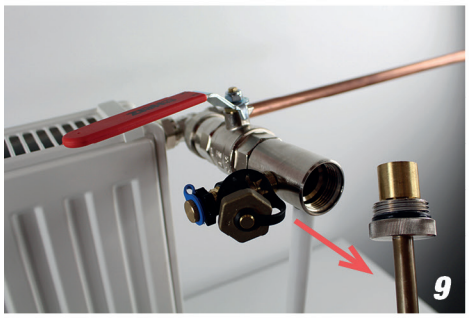
	Order number
HERZ CHANGEFIX **Replacement device for HERZ thermostatic valve body parts** with connection thread M 28 x 1.5	1 **7780** 00
HERZ CHANGEFIX **Replacement device for HERZ thermostatic valve body parts "H"** with connection thread M 30 x 1.5	1 **7780** 98
Seal kit Replacement seal set for HERZ CHANGEFIX	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**	1 **7781** 00
Cleaning Brush Set for the valve seat cleaning in the course of the replacement of parts	1 **7781** 01











HERZ Armaturen GesmbH - Wien Herz Armaturen Ges.m.b.H. herz.armaturen Herz Armaturen Ges.m.b.H.

Heart of technology

HERZ Armaturen Ges.m.b.H.
Richard-Strauss-Straße 22, 1230 Vienna, Austria
T: +43 1 616 26 31-0, F: +43 1 616 26 31-227
E-mail: office@herz.eu

www.herz.eu

W180219 - Renovierung von Heizanlagen_DE