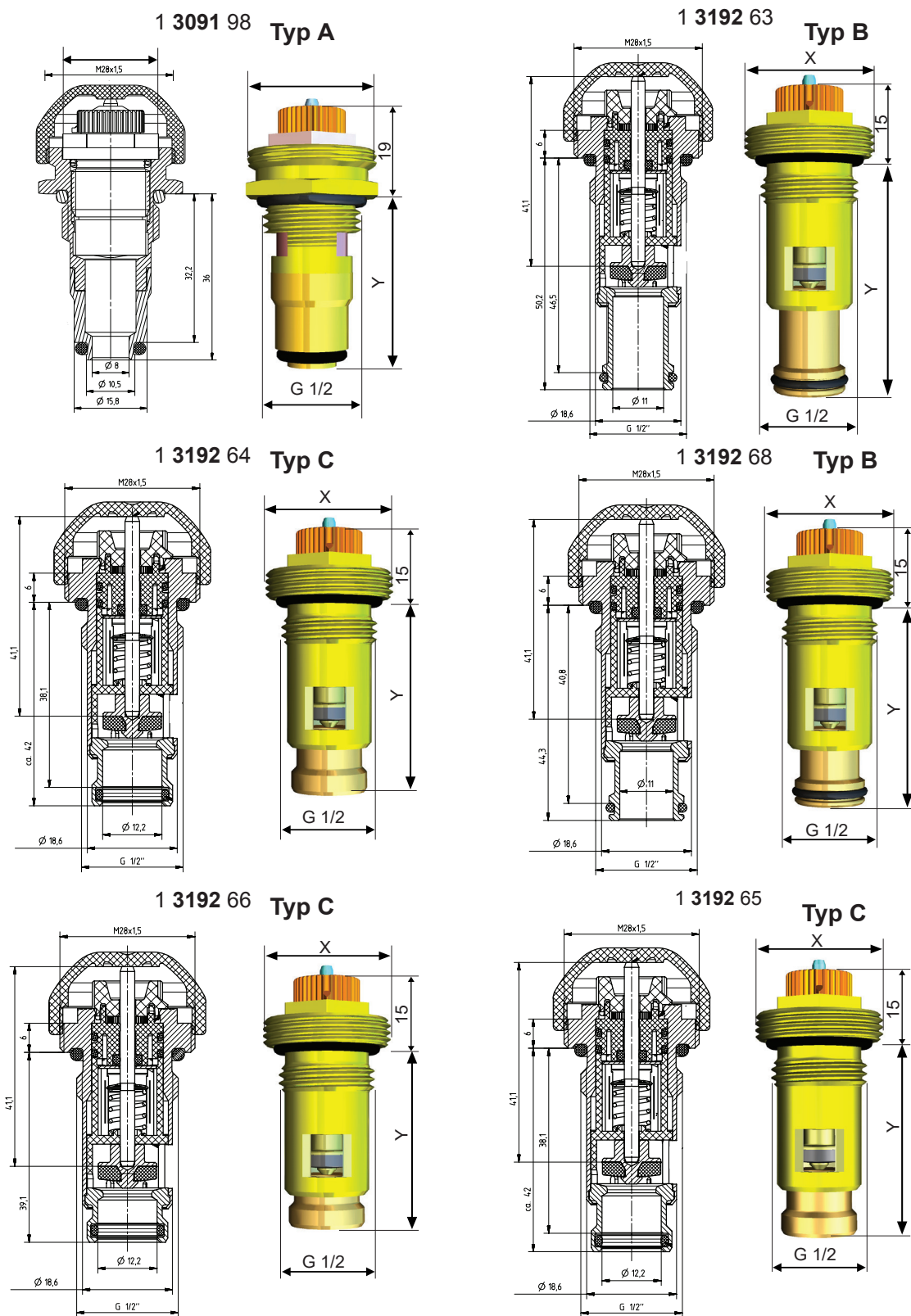
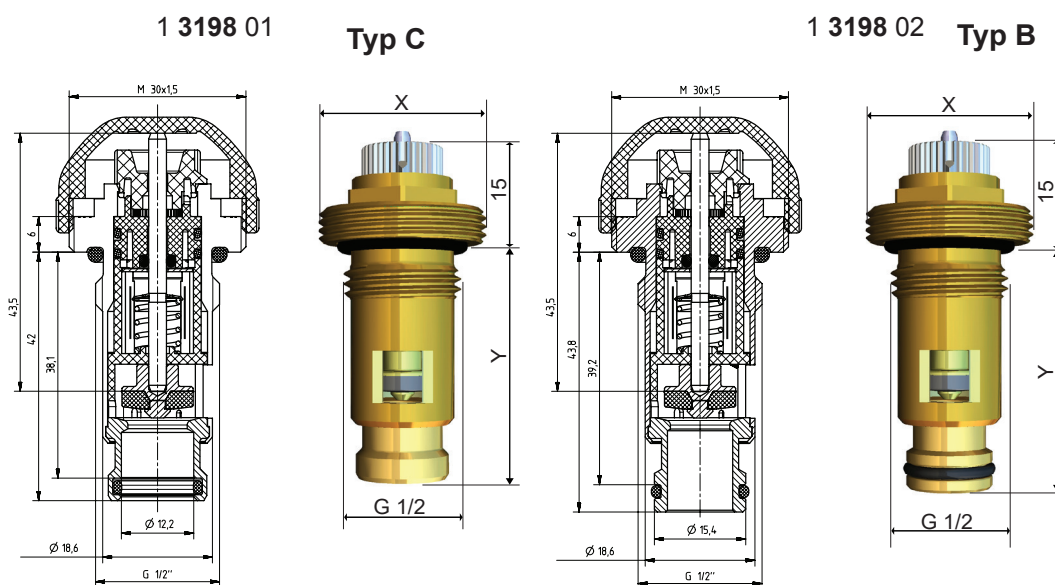


HERZ - thermostatic insert for integrated radiator valves

Data sheet for 3X9X, Issue 0322

☒ Dimensions in mm





☒ Dimensions in mm

Order No.	Typ	X	SW	Y	G	Model	kvs	1k	2k	3k
1 3091 98	A	M 28x1,5	18	36	1/2	TS-98V	0,91	0,24	0,49	0,66

☒ Dimensions in mm

Order No.	Typ	X	SW	Y	G	Model	kvs
1 3192 63	B	M 28x1,5	18	50	1/2	TS-98V	1,51
1 3192 64	C	M 28x1,5	18	42	1/2	TS-98V	1,51
1 3192 65	C	M 28x1,5	18	42	1/2	TS-98V	1,51
1 3192 66	C	M 28x1,5	18	39	1/2	TS-98V	1,51
1 3192 68	B	M 28x1,5	18	44	1/2	TS-98V	1,51
1 3198 01	C	M 30x1,5	19	42	1/2	TS-98VH	1,51
1 3198 02	B	M 30x1,5	19	44	1/2	TS-98VH	1,51

☒ Models -TS-98-V/H

All models are delivered with screw caps.

Typ A 1/2" screw- in adapter with O-ring on front

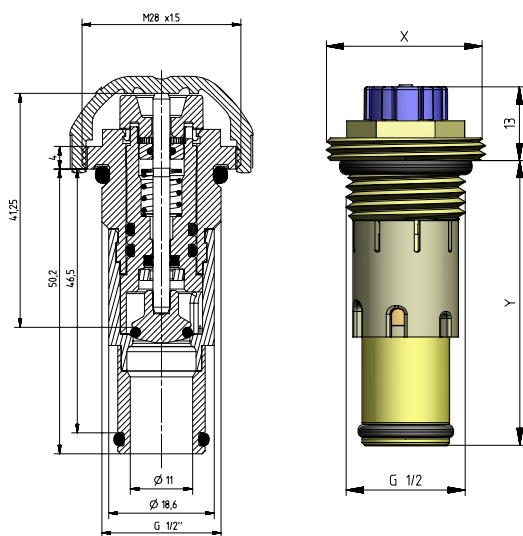
Typ B 1/2" screw- in adapter with O-ring on outside

Typ C 1/2" screw- in adapter with O-ring on inside

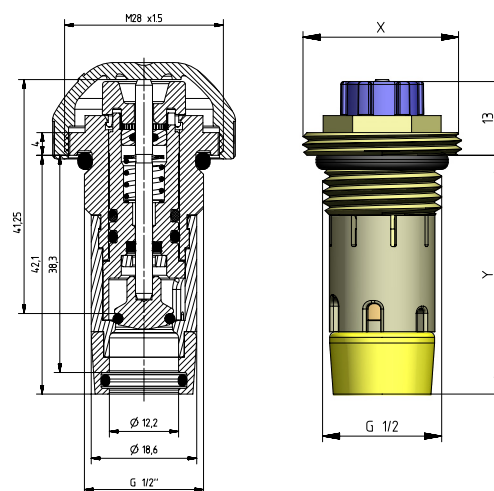
☑ Models HERZ-TS-90-kv

Thermostatic valves with fixed kv values at $dT = 2K$ according to the directives of the district heating operators.

Typ B



Typ C

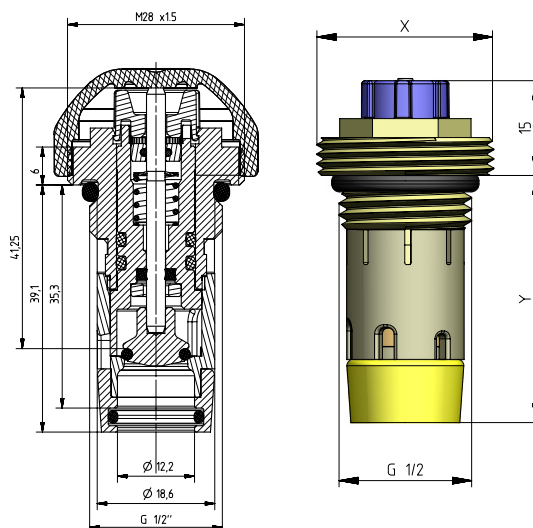


Order No.	Typ	X	SW	Y	G	Model	kv
1 3093 69	B	M 28x1,5	18	50	1/2	blue	0,06
1 3093 79	B	M 28x1,5	18	50	1/2	green	0,12
1 3093 89	B	M 28x1,5	18	50	1/2	yellow	0,25
1 3093 99	B	M 28x1,5	18	50	1/2	white	0,50
1 3192 82	C	M 28x1,5	18	42	1/2	blue	0,06
1 3192 83	C	M 28x1,5	18	42	1/2	green	0,12
1 3192 84	C	M 28x1,5	18	42	1/2	yellow	0,25
1 3192 85	C	M 28x1,5	18	42	1/2	white	0,50

☑ Model HERZ-TS-90-kv with fixed kv-value for Kermi radiators

Thermostatic valves with fixed kv values at $dT = 2K$ according to the directives of the district heating operators.

Order No.	X	SW	Y	G	Model	kv [m ³ /h]
1 3197 69	M 28 x 1,5	18	39	1/2	blue	0,06
1 3197 79	M 28 x 1,5	18	39	1/2	green	0,12
1 3197 89	M 28 x 1,5	18	39	1/2	yellow	0,25
1 3197 99	M 28 x 1,5	18	39	1/2	white	0,50



☑ Valve radiator brand

Dia Norm, Radson, Superia, Veba
Henrad
Korado, Stelrad

Vogel&Noot

1 3091 98
1 3192 65
1 3192 65;
1 3192 82-85
1 3192 63
1 3093 69
1 3093 79

	1 3093 89
	1 3093 99
ThermoTeknik, Acova, Brugman	1 3192 68
Kermi	1 3192 66
	1 3197 69
	1 3197 79
	1 3197 89
	1 3197 99
Dunaferr	1 3192 64

☒ Operating data

Max. operating temperature: 120 °C
 Max. operating pressure: 10 bar
 Max. differential pressure: 20 kPa
 Heating water quality according to ÖNORM H 5195 resp. VDI guideline.

☒ Field of application

Fields of application are domestic systems.
 Water purity in accordance with the ÖNORM H 5195 and VDI 2035 standards Ethylene and propylene glycol can be mixed to a ratio of 25 - 50 vol. [%].

☒ Hydraulic characteristics for 1 3192 65; 1 3192 63; 1 3192 68; 1 3192 66; 1 3192 64; 1 3198 01; 1 3198 02:

Setting	kv-value			kvs-value
	at 1K	at 2K	at 3K	completely open
1	0,048	0,05	0,05	0,06
2	0,066	0,12	0,12	0,12
3	0,2	0,25	0,3	0,3
4	0,25	0,4	0,47	0,57
5	0,3	0,5	0,72	0,93
6	0,33	0,6	0,89	1,51

☒ HERZ Thermostat heads. Installation

The following thermostatic heads are available for the upper parts with M28x1.5mm connection (TS-98 V):

9230/9260	"Design"
9430/9460	"Design" with remote sensor
9330	"Design" with remote setting
934X/935X	Thermostatic head with remote setting, for surface mounting or flush mounting
9860/9861	"Herzcules"
9200	"MINI"
7230/726X	"Standard"

The following thermostatic heads (in the "H" version) are available for the upper parts with M30x1.5mm connection (TS-98 VH):

9230 H/9260 H	"Design"
9430 H/9460 H	"Design" with remote sensor
9330 H	"Design" with remote setting
934X H/935X H	Thermostatic head with remote setting, for surface mounting or flush mounting
9860 H/9861 H	"Herzcules"
9200 H	"MINI"
7230 H/7260 H	"Standard"

Under no circumstances should the HERZ thermostatic head be exposed to direct sunlight or to the Important for Installation 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 and consequently is not in a position to properly control it. In such cases, use the HERZ thermostat with remote sensor 7430, 7460, 9430, 9460 or the HERZ thermostat with remote adjustment 7330, 9330.

For detailed information on the HERZ thermostatic heads "H" consult the individual standard sheets.

☑ **HERZ-TS Hand wheel**



If a HERZ thermostatic valve lower part is not equipped with a HERZ thermostatic head, the HERZ-TS **9102** hand wheel replaces the screw cap.

1 **9102** 80 HERZ-TS-90 hand wheel, line 9000 „Design“, connection M28x1,5 mm.

1 **9102** 98 HERZ-TS-90 hand wheel, line 9000 „Design“, connection M30x1,5 mm.

☑ **HERZ Thermostatic valve**

Nominal lift



The screw cap is used during the construction phase (pipe flushing). By removing the screw cap and unscrewing the HERZ thermostatic head, the thermostatic valve is formed without emptying the system.

Adjustment of the nominal stroke by means of screw cap:

On the outside of the screw cap, in the area of the knurling, two setting markings (visible bars) are placed, aligned with the „+“ and „-“ markings.

1. Close the valve by means of the screw cap by turning it 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 under 2.

☑ **Pre-setting function**

Pre-setting is performed by means of a flow restrictor downstream of the valve seat enclosing the pre-setting function valve seal. This flow restrictor is adjustable from the outside. It does not obstruct the working lift of the valve spindle.

Pre-setting can be performed manually by means of the light grey pre-setting button. This is performed by setting the pointer on the pre-setting button to the figure on the scale of the upper part obtained by calculation or from the HERZ- standard diagram.

For convenient pre-setting a HERZ pre-setting key is available (1 **6819** 98) which engages with the teeth of the pre-setting button.

☑ **Setting instructions HERZ-TS-98- V or VH. Pre-setting key 1 6819 98**



1. 1. Remove the HERZ thermostatic head, hand wheel or screw cap.
2. Set the light gray or orange adjustment knob (factory setting between “4” and “5”) to the desired presetting level 1-6 (0) using the setting key or by hand (1 **6819** 98).
3. Install the HERZ thermostatic head or the manual actuator. The setting is now saved.

☑ **Summer setting**

At the end of the heating period, open the valve by turning it counterclockwise to prevent dirt particles from sticking to the valve seat.

☑ **Installation - Exchange**

The articles described are products which are manufactured for the industry. These valve inserts are installed in the radiator factories in the radiators provided for this purpose. Should an exchange be necessary, proceed as follows:

*) Close the radiator at the connections and drain.

*) Unscrew the upper part with the appropriate open-end wrench (wrench opening 18 or 19, see table) on the hexagonal counterclockwise and replace with a new upper part.

*) A possible existing presetting must be carried out again.

☑Material

Pursuant to Article 33 of the REACH Regulation (EC No. 1907/2006), we are obliged to point out that the material lead is listed on the SVHC list and that all brass components manufactured in our products exceed 0.1% (w / w) lead (CAS: 7439-92-1 / EINECS: 231-100-4). Since lead is a component part of an alloy, actual exposure is not possible and therefore no additional information on safe use is necessary.

☑Disposal

Disposal must comply with local and current legislation.

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