for all thermostatic valve bodies and radiators with integrated valves





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Description

HEIMEIER thermostatic heads are control units for controlling the temperature in individual rooms and are available in various models.

For models with a **built-in sensor** (see illustration), the actuator, controller, and sensor form a single unit which is the thermostat. This is filled with an incompressible liquid and has high pressure power.

For thermostatic heads with **remote sensors**, the main part of the temperature-sensitive liquid is not found in the head itself, but rather in the remote sensor. From there the liquid acts on the corrugated pipe in the head via the capillary tube.

For **remote dials**, the thermostatic head is separated from the valve body and acts on the corrugated pipe in the valve connecting piece via the capillary tube.

Central adjusters are remote dials with additional remote sensors.

The groove on the face of the thermostatic heads K, VK, WK and VD serves to take up "color clips" or specially printed "partner clips".

Construction

Thermolux K thermostatic valve Liquid-filled thermostat with high Corrugated pipe pressure power and precision control Safety spring Markings designed for the visually Hidden stops for impaired variable limiting and blocking Heimeier _ connection technology (locking ring M 30 x 1.5)



CEN certified and tested in accordance with DIN EN 215 Part 1

- With 2 clips for marking, limiting or blocking
- Symbols for basic setting and nighttime set back
- Brief data including the most important settings
- Rotation direction indicator
- Markings designed for the visually impaired

Application

HEIMEIER thermostatic heads are used to control the temperature of individual rooms using, for example, heaters, convectors, and radiators.

They are designed to be mounted on all HEIMEIER thermostatic valve bodies and on radiators with integrated valves which have an M 30 x 1.5 connecting thread on the thermostatic insert. Adapters and models with direct connections enable mounting onto thermostatic valve bodies from other manufacturers.

The thermostatic heads use the energy of internal and external heat sources including solar heat, the heat radiated from people and electrical devices, and other sources, in order to keep the room air temperature constant. This helps to avoid wasting energy.

Thermostatic heads with built-in sensors may not be covered by curtains, radiator facings, or other obstructions, or mounted vertically or in tight niches. Otherwise it will not be possible to precisely control the temperature.

In other cases, it may be necessary to install a remote sensor or remote dial.

Notes on installation



Correct
Circulation of air around the thermostatic head is not hindered.



Correct
The remote sensor enables an unhindered reading of the air temperature in the room.



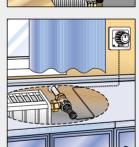
Underfloor convector



Incorrect
The thermostatic head with built-in sensor may not be mounted vertically.



Incorrect
The thermostatic head with built-in sensor may not be covered by curtains.



Built-in cabinet

Function

In terms of controls, thermostatic heads are seen as continuous proportional controllers (P controllers) that require no auxilliary energy. They do not need an electrical connection or other source of energy. Changes in room air temperature are proportional to changes in the valve stroke.

If the temperature of the air in the room increases due to sunshine, for example, the liquid in the temperature sensor expands and affects the corrugated pipe. This chokes the water supply to the radiator via the valve spindle. If the temperature in the room

decreases, the opposite process occurs.

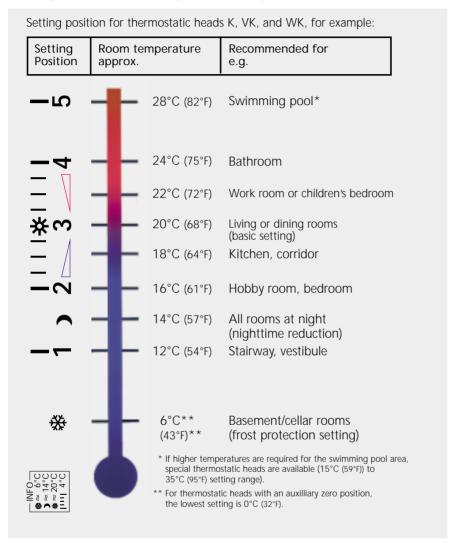
The change in valve stroke caused by a change in temperature can be quantified as 0.22 mm per K room temperature change.



Operation

Recommended room temperatures

The following temperature settings are recommended for the corresponding rooms based on heating with cost savings in mind:



Setting the temperature

The desired room temperature can be selected by turning the thermostatic head (right = cooler, left = warmer). The arrow must be pointing to the appropriate setting position (number, bar, symbol).

All HEIMEIER thermostatic heads are adjusted in a climatic chamber, free of external influences such as heat build-up, sunshine, etc. The number 3 corresponds to a temperature of approximately 20°C (68°F). The difference between each number is approximately 4°C (7°F) (thermostatic head B approx. 3°C (5°F), from bar to bar approx. 1°C (2°F).

We recommend setting at the number 3 which corresponds to the basic setting of about 20°C (68°F) room temperature. Settings above 4 should be avoided if a lower setting satisfies the comfort level, as a 1°C (2°F) higher room temperature corresponds to an increase in energy use of around 6%.

The K thermostatic head is also available with a limited setting range (Article no. 6120-...500). The lowest setting at 1 corresponds to a temperature of about 6°C (43°F) and serves as the frost protection setting.

The difference between this and the next number 2 is about 2°C (4°F) and to the next number around 4°C (7°F). This means that the number 3 corresponds to a temperature of approximately 12°C (54°F). The highest setting is configured in 1°C (2°F) steps between 15°C (59°F) and 25°C (77°F). This is achieved by turning the thermostatic head to the left, up until it stops.

with built-in sensor

Description



Liquid-filled thermostat.

High pressure power, lowest hysteresis, optimal closing time.

Stable control behavior even in the case of small calculated p-band variation (<1K). Meet all requirements of the German EnEV and DIN V 4701-10.

Markings indicate upper and lower temperature range; two energy saving clips can be used to limit settings.

Temperature range is limited on both ends and can be blocked using covered stop clips.

Setting indicators on the face of the

head and markings designed for the visually impaired.

Rotation direction indicator.

Symbols for basic setting and nighttime reduction.

Brief data including the most important settings.

White cover printed with scale.

Designed to be mounted on all HEIMEIER thermostatic bodies and radiators with integrated valves which have an M 30 x 1.5 thermostatic insert. Refer also to the assembly and operating instructions.

Technical data

 Hysteresis 0.2 K Water temperature influence 0.4 K Differential pressure influence 0.3 K Closing time 24 min

Illustration	Model	Setting range	Article no.
	Standard	6°C to 28°C (43°F to 82°F)	6000-00.500
	with zero position (valve opens at approx. 0°C or 32°F).	6°C to 28°C (43°F to 82°F)	7000-00.500
Sec.	Public buildings model Theft protection using security ring. Increased strength in accordance with former German army certification TL 4520-0014 Stress group 1 (for highest stress).	6°C to 28°C (43°F to 82°F)	6020-00.500
	with theft protection using 2 screws.	6°C to 28°C (43°F to 82°F)	6040-00.500
	For public indoor swimming pools, medical spas.	15°C to 35°C (59°F to 95°F)	6200-00.500
	Public buildings model Theft protection using security ring. Staggered/limited setting range. Setting number based on setting range 1-3/1-4/1-5. Turn all the way left for highest setting. Increased strength in accordance with former German army certification TL 4520-0014.	lowest setting 6°C (43°F), upper setting in 1°C (2°F) increments between 15°C (59°F) to 25°C (77°F)	6120500 When ordering indicate upper value, e.g. enter 20 for 20°C (68°F)



with remote sensor

Description



Liquid-filled thermostat.

High pressure power, lowest hysteresis, optimal closing time.

Stable control behavior even in the case of small calculated p-band variation (<1K). Meet all requirements of the German EnEV and DIN V 4701-10.

Markings indicate upper and lower temperature range; two energy saving clips can be used to limit settings. Temperature range is limited on both ends and can be blocked using covered stop clips.

Setting indicators on the face of the head and markings designed for the visually impaired.

Rotation direction indicator.

Symbols for basic setting and nighttime reduction.

Brief data including the most important settings.

Capillary tube coil for unused capillary tube.

White cover printed with scale.
Designed to be mounted on all HEIMEIER thermostatic bodies and radiators with integrated valves which have an M 30 x 1.5 thermostatic insert. Refer also to the assembly and operating instructions

Special models can be designed upon request.

Technical data

Valve stroke limiter
Setting numbers 1 to 5
Frost protection
Max. sensor temperature 50°C (122°F)
Hysteresis 0.2 K

Water temperature influence 0.3 K Differential pressure influence 0.3 K Closing time 12 min (horizontal sensor installation) Closing time 15 min (vertical sensor installation)

Illustration	Model	Setting values	Capillary tube length	Article no.
	Standard	6°C to 27°C (43°F to 81°F)	1.25 m (4.1 ft) 2.00 m (6.56 ft) 5.00 m (16.4 ft) 8.00 m (26.25 ft) 10.00 m (32.81 ft) 12.00 m (39.37 ft) 15.00 m (49.21 ft)	6001-00.500 6002-00.500 6005-00.500 6008-00.500 6010-00.500 6012-00.500 6015-00.500
	with zero position (valve opens at ca. 0°C or 32°F)	6°C to 27°C (43°F to 81°F)	2.00 m (6.56 ft)	7002-00.500
	Public buildings model Theft protection using security ring.	6°C to 27°C (43°F to 81°F)	2.00 m (6.56 ft)	6022-00.500
	with theft protection using 2 screws.	6°C to 27°C (43°F to 81°F)	2.00 m (6.56 ft)	6042-00.500
	For public indoor swimming pools, medical spas.	15°C to 35°C (59°F to 95°F)	2.00 m (6.56 ft)	6202-00.500

with direct connection

Description



Thermostatic head K with direct connection for installing on Danfoss thermostatic valve bodies from the series RA, RAV, and RAVL for clamping joints.

The thermostatic head can be mounted in several different positions, each at 90°.

Liquid-filled thermostat.

High pressure power, lowest hysteresis, optimal closing time.

Stable control behavior even in the case of small calculated p-band variation (<1K). Meet all requirements of the German

EnEV and DIN V 4701-10.

Limiting and marking settings using energy saving clips.

Setting indicators on the face of the head and markings designed for the visually impaired.

Rotation direction indicator. Symbols for basic setting and nighttime reduction.

White cover with printed scale.

Technical data

Setting range 6°C to 28°C (43°F to 82°F) Valve stroke limiter Setting numbers 1 to 5 Frost protection

Max. sensor temperature 50°C (122°F)

Illustration	Model	Article no.
	with direct connection for Danfoss thermostatic bodies RAVL	9700-24.500
	with direct connection for Danfoss thermostatic bodies RAV	9800-24.500
	with direct connection for Danfoss thermostatic bodies RA with 2 energy saving clips (also for radiators with integrated valves, see page 14)	9710-24.500



with built-in sensor

Description



Liquid-filled thermostat.
High pressure power, lowest hysteresis, optimal closing time.
Stable control behavior even in the case of small calculated p-band variation (<1K).
Meet all requirements of the German EnEV and DIN V 4701-10.
With rotation direction indicator.
Reduced size in length and diameter.
White cover printed with scale.

Designed to be mounted on all HEIMEIER thermostatic bodies and radiators with integrated valves which have an M 30 x 1.5 thermostatic insert.

Refer also to the assembly and operating instructions.

Technical data

Setting range 6°C to 28°C (43°F to 82°F) Valve stroke limiter Setting numbers 1 to 5 & Frost protection 6°C (43°F)

Max. sensor temperature 50°C (122°F) Hysteresis 0.3 K Water temperature influence 0.7 K Differential pressure influence 0.3 K

Illustration	Model	Article no.
	with built-in sensor	6850-00.500

for public buildings

Description



Secured model designed for public buildings.

Liquid-filled thermostat.

High pressure power, lowest hysteresis, optimal closing time.

Stable control behavior even in the case of small calculated p-band variation (<1K). Meet all requirements of the German EnEV and DIN V 4701-10.

Infinitely variable temperature setting using a special key without having to remove the protection cap.

Protection cap can be turned endlessly. Protected against theft.

Flexural strength of the thermostatic head min. 1000 N.

White protection cap.

Designed to be mounted on all HEIMEIER thermostatic bodies and radiators with integrated valves which have an M 30 x 1.5 thermostatic insert.

Refer also to the assembly and operating instructions.

Special models upon request.

Technical data

Setting range 8°C to 26°C (46°F to 79°F) Valve stroke limiter Setting numbers 1 to 5 Frost protection 8°C (46°F) Max. sensor temperature 50°C (122°F) Hysteresis 0.2 K Water temperature influence 0.9 K Differential pressure influence 0.3 K Closing time 24 min

Illustration	Model	Article no.
	public building model	2500-00.500



Remote dial

Description



Liquid-filled thermostat.

High pressure power, lowest hysteresis, optimal closing time.

Stable control behavior even in the case of small calculated p-band variation (<1K). Meet all requirements of the German EnEV and DIN V 4701-10.

Temperature range is limited on both ends and can be blocked using covered stop clips.

Rotation direction indicator.

May be installed at an outlet box. White cap printed with scale. Connection piece designed to be mounted on all HEIMEIER thermostatic bodies and radiators with integrated valves which have an M 30 x 1.5 thermostatic insert.

Refer also to the assembly and operating instructions.

Special models upon request.

Technical data

Valve stroke limiter
Setting numbers 1 to 5
Frost protection
Max. sensor temperature 50°C (122°F)

Hysteresis 0.5 K Water temperature influence 0.4 K Differential pressure influence 0.5 K Closing time 24 min.

Illustration	Model	Setting range	Capillary tube length	Article no.
Name of the second of the seco	Remote dial with built-in sensor	8°C to 27°C (46°F to 81°F)	2.00 m (6.56 ft) 5.00 m (16.4 ft) 8.00 m (26.25 ft) 10.00 m (32.81 ft) 12.00 m (39.37 ft) 15.00 m (49.21 ft)	2802-00.500 2805-00.500 2808-00.500 2810-00.500 2812-00.500 2815-00.500
	For public indoor swimming pools medical spas	15°C to 35°C (59°F to 95°F)	2.00 m (6.56 ft) 5.00 m (16.4 ft)	2822-00.500 2825-00.500
	Remote dial with remote sensor Central adjuster	8°C to 27°C (46°F to 81°F)	2 x 1.50 m (2 x 4.92 ft)	2881-00.500

Thermostatic head VD

for radiators with integrated valves

Description



The HEIMEIER thermostatic head VD combines perfected technology with contemporary design.

It has been specially designed for installation on radiators with integrated valves with M 30 x 1.5 connecting threads on the thermostatic insert.

Its new construction blends harmoniously with the radiator, creating a single integrated unit.

Liquid-filled thermostat. High pressure power, lowest hysteresis, optimal closing time.

Stable control behavior even in the case

of small calculated p-band variation (<1K). Meet all requirements of the German EnEV and DIN V 4701-10.

Markings indicate upper and lower temperature range; two energy saving clips can be used to limit settings*). Temperature range is limited on both ends and can be blocked using stop pins. Rotation direction indicator. Symbol for nighttime set-back. White printed cap and trim.

Refer also to the assembly and operating instructions.

Technical data

Setting range 8°C to 28°C (46°F to 82°F) Valve stroke limiter Setting numbers 1 to 5 ★ Frost protection Zero position (valve opens at approx. 0°C or 32°F)

Max. sensor temperature 50°C (122°F)

Application

The HEIMEIER thermostatic head VD fits, for example, on the following radiators with integrated valves:

Alarko Dia-therm Korado Manaut Riasi **DURA** Caradon Stelrad Ferroli Purmo Cetra Hagetec Radson Concept Henrad Rettig **HM** radiators DEF Superia Demrad Kaimann **VEHA** DiaNorm Kermi **VSZ** Zenith

Date: 12.00

Technical changes made by the radiator manufacturer must be taken into account.

Depending on the particular construction, the width of the side trim needs to be considered for type 11 radiators.

*) If small children have access to the thermostatic head, we highly recommend removing the stop clips to prevent possible misuse.

Article numbers

Model **Article** Illustration no. with M 30 x 1.5 connection 7400-00.500 for radiators with integrated valves



Angled form for radiators with integrated valves

Description



The HEIMEIER thermostatic head WK has been designed for radiators with integrated valves which have a thermostatic insert with an M 30 x 1.5 connecting thread

The thermostatic head WK can be turned around for mounting on the left or right of the radiator.

This allows you to use a single model for either mounting position.

Liquid-filled thermostat.

High pressure power, lowest hysteresis, optimal closing time.

Stable control behavior even in the case of small calculated p-band variation (<1K).

Meet all requirements of the German EnEV and DIN V 4701-10.

Markings indicate upper and lower temperature range; two energy saving clips can be used to limit settings.

Setting indicators on the face of the head and markings designed for the visually impaired.

Rotation direction indicator.

Symbols for basic setting and nighttime set-back

Brief data including the most important settings.

White cap printed with scale.

Refer also to the assembly and operating instructions.

<mark>Te</mark>chnical data

Setting range 6°C to 28°C (43°F to 82°F) Valve stroke limiter Setting numbers 1 to 5 Frost protection

Max. sensor temperature 50°C (122°F).

Application

The HEIMEIER thermostatic head WK fits, for example, on the following radiators with integrated valves:

Alarko Manaut DURA Prolux Arbonia Ferroli Purmo Biasi Caradon Stelrad Hagetec Radson Cetra Henrad Rettig HM Heizkörper Superia Concept Demrad Kaimann **VEHA** DiaNorm Kermi VSZ Dia-therm Korado Zenith

Date: 12.00 Technical changes made by the radiator manufacturer must be taken into account. It is not permitted to use adapters for mounting onto thermostatic inserts that do not have an M 30 x 1.5 connecting thread.

<mark>A</mark>rticle numbers

Illustration	Model	Article no.
	Angle form with M 30 x 1.5 connection for radiators with integrated valves	7300-00.500

Thermostatic head VK

with clamp connection for radiators with integrated valves

Description



The HEIMEIER thermostatic head has been designed to be mounted on radiators with integrated valves. The clamp connection with mounting bracket enables a direct connection to thermostatic inserts which do not have an M 30 x 1.5 connecting thread. The thermostatic head VK can be mounted in several different positions, each at 90°.

Liquid-filled thermostat.

High pressure power, lowest hysteresis, optimal closing time.

Stable control behavior even in the case of small calculated p-band variation (<1K). Meet all requirements of the German EnEV and DIN V 4701-10.

Markings indicate upper and lower temperature range; two energy saving clips can be used to limit settings*).

Temperature range is limited on both ends and can be blocked using covered stop clips.

Setting indicators on the face of the head and markings designed for the visually impaired.

Rotation direction indicator.

Symbols for basic setting and nighttime set-back.

Brief data including the most important settings.

White cap printed with scale.

Refer also to the assembly and operating instructions.

Technical data

Setting range 6°C to 28°C (43°F to 82°F) Valve stroke limiter Setting numbers 1 to 5 *Frost protection Max. sensor temperature 50°C (122°F)

Application

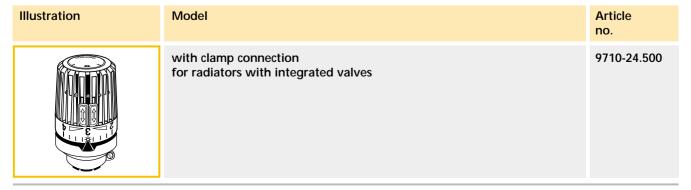
The HEIMEIER thermostatic head VK fits, for example, on the following radiators with integrated valves:

Baufa De Longhi Ocean Bemm Finimetal Rio Brötje Küpper Schäfer

Brugman Myson Thermotechnik Buderus Northor Vogel & Noot CICH

Date: 12.00

Technical changes made by the radiator manufacturer must be taken into account.





Accessories

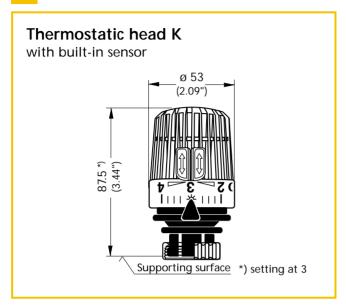
Illustration	Description		Article no.
	Theft protection for thermostatic heads K, D, WK. Refer also to the assembly and operating instructions.		6020-01.347
	Connecting to products from other manufacturers Adapters for mounting all HEIMEIER thermostatic heads on thermostatic bodies from manufacturers listed her Standard M 30 x 1.5 threaded connection. *) can not be used on radiators with integrated valves	Danfoss RA Danfoss RAV Danfoss RAV Vaillant E. TA (M 28x1,5) Herz Markaryd Comap Giacomini Oventrop (M 30 x	9702-24.700*) 9800-24.700 9700-24.700 9700-27.700 9701-28.700 9700-30.700 9700-41.700 9700-55.700 9700-33.700 1) 9700-10.700
	Connection to radiators with integrated valves Adapters for mounting HEIMEIER thermostatic heads with an M 30 x 1.5 connection on thermostatic inserts for Series 2 clamping connections. Standard M 30 x 1.5 threaded connection.		9703-24.700
	Adapters for mounting HEIMEIER thermostatic heads with an M 30 x 1.5 connection on thermostatic inserts for Series 3 clamping connections. Standard M 30 x 1.5 threaded connection. Exception: The thermostatic head WK is designed only for inserts with an M 30 x 1.5 threaded connection.	mounting on thermostatic	9704-24.700
	Spindle extension for thermostatic valve bodies. Brass	20 mm (0.79 inch) 30 mm (1.18 inch) 30 mm (1.18 inch)	2001-20.700 2001-30.700 2002-30.700
	Capillary tube coil for rolling up unused capillary tube.		6001-00.315
	Removal device for cap with printed scale on thermostatic head K. Refer also to the assembly and operating instructions.		6000-00.138

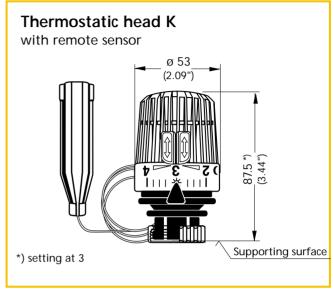
Accessories

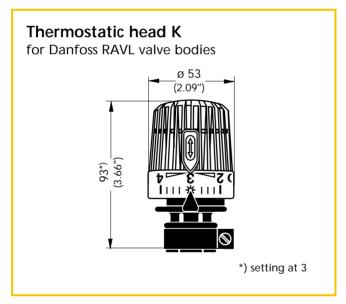
•		Article no.
Setting key for thermostatic head B. Refer also to the assembly and operating instructions.		2500-00.253
Universal key alternative to setting key art. no. 2500-00.253 for activating thermostatic head B (temperature setting), also for V-exact / F-exact thermostatic valve bodies, Regulux lockshield, Vekolux double connection fittings, and radiator air vents.		0530-01.433
Hexagon key for thermostatic head B and theft protection with 2 screws on thermostatic head K.	size 2	6040-02.256
	Refer also to the assembly and operating instructions. Universal key alternative to setting key art. no. 2500-00.253 for activating thermostatic head B (temperature setting), also for V-exact / F-exact thermostatic valve bodies, Regulux lockshield, Vekolux double connection fittings, and radiator air vents. Hexagon key for thermostatic head B and theft protection	Setting key for thermostatic head B. Refer also to the assembly and operating instructions. Universal key alternative to setting key art. no. 2500-00.253 for activating thermostatic head B (temperature setting), also for V-exact / F-exact thermostatic valve bodies, Regulux lockshield, Vekolux double connection fittings, and radiator air vents. Hexagon key for thermostatic head B and theft protection with 2 screws on thermostatic head K.

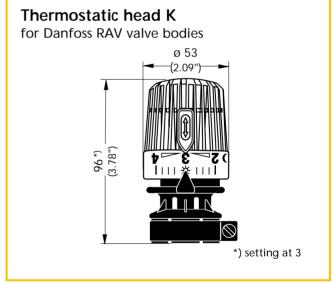


Dimensions

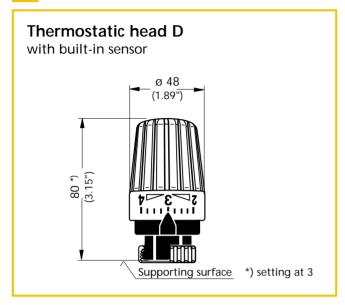


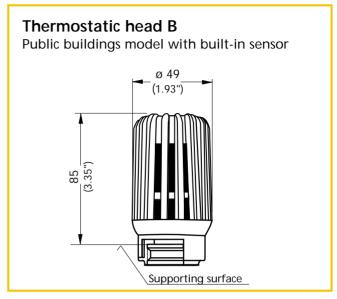


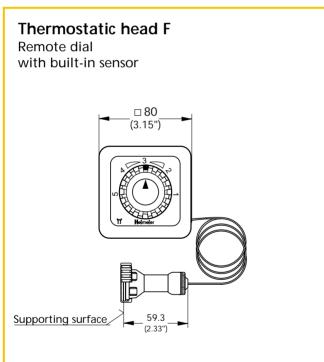


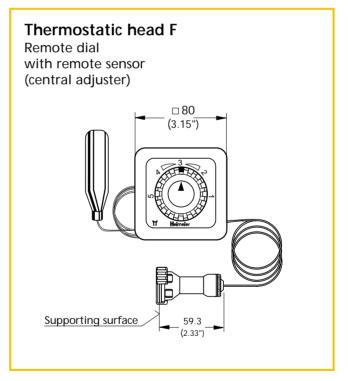


Dimensions



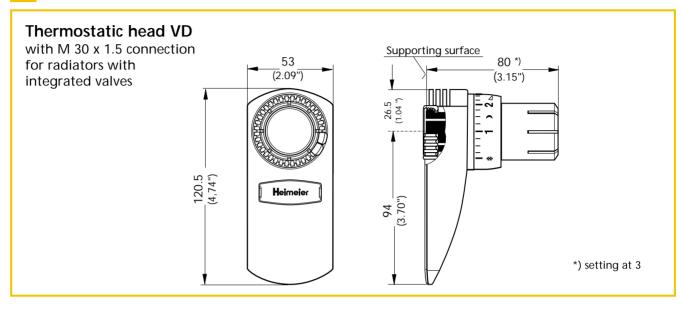


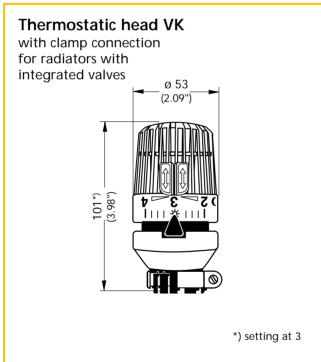


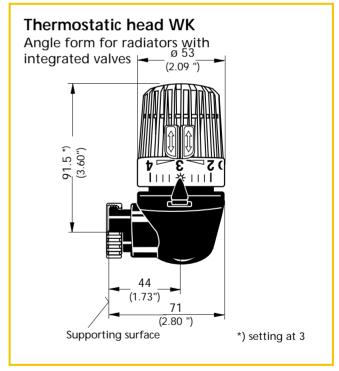




Dimensions







Thermostatic heads and valve bodies



Certified and tested by CEN in accordance with DIN EN 215 Part 1 and HD 1215 Part 2 (Series D and F) CEN symbol approval number 6T 0006

Thermostatic head

Article numbers	
2500-00.500 2802-00.500 2805-00.500 2808-00.500 2810-00.500 2815-00.500 6000-00.500 6001-00.500 6002-00.500 6005-00.500 6010-00.500 6010-00.500 6015-00.500 6015-00.500 6015-00.500 6015-00.500 7000-00.500	

Thermostatic valve bodies, Series D

DN 10	Article numbers DN 15	DN 20
2001-01.000 2002-01.000 2042-01.000 2201-01.000 2202-01.000 2241-01.000 3431-01.000 3432-01.000 3501-01.000 3501-01.000 3511-01.000	2001-02.000 2002-02.000 2042-02.000 2201-02.000 2202-02.000 2241-02.000 3431-02.000 3432-02.000 3501-02.000 3501-02.000 3511-02.000	2001-03.000 2002-03.000 2201-03.000 2202-03.000 3501-03.000 3502-03.000 3511-03.000
3512-01.000	3512-02.000	3512-03.000

Thermostatic valve bodies, Series F

DN 10	Article numbers DN 15	DN 20
2215-01.000 2216-01.000 3505-01.000 3506-01.000 3515-01.000 3516-01.000	2215-02.000 2216-02.000 3505-02.000 3506-02.000 3515-02.000 3516-02.000	2215-03.000 2216-03.000

Thermostat valve bodies

DN 10	Article numbers DN 15	DN 20
	2072-02.000 2074-02.000 2076-02.000 2206-02.000 2244-02.000	2072-03.000

