

Function:

Oventrop thermostats and thermostatic valves are proportional regulators working without auxiliary energy. They regulate the room temperature by varying the flow volume of heating water. Oventrop thermostats meet the requirements of the Energy Saving Directive and allow the design of thermostatic radiator valves with a proportional control range of 1 or 2 Kelvin (kv values see technical data sheet "Thermostatic radiator valves").

Tender specification:

Oventrop thermostat "Uni XH" with liquid sensor, connection thread M 30 x 1.5, control range may be limited or locked by using the limiting elements, marking of a set value by using the memo disk, tactile setting device, control range 7-28°C.

white model
with '0' setting 101 13 65
without '0' setting 101 13 64

as above but with remote sensor

white model, with '0' setting
capillary 2 m long 101 15 65
capillary 5 m long 101 15 66

white model, without '0' setting
capillary 2 m long 101 15 82

Oventrop thermostat "Uni XHT" with liquid sensor, connection thread M 30 x 1.5, control range may be limited or locked by using the limiting elements, marking of a set value by using the memo disk, tactile setting device, control range 7-28°C, max. heating water temperature 90°C.

transparent model, with '0' setting 101 13 00

Oventrop thermostat "Uni XHM" with liquid sensor, connection thread M 30 x 1.5, control range may be limited or locked by using the limiting elements, marking of a set value by using the memo disk, tactile setting device, control range 7-28°C.

In combination with valves, the specific piston stroke and thus the kv value is higher compared to other Oventrop thermostats.

white model, with '0' setting 101 13 60

Oventrop thermostat "Uni LH" with liquid sensor, connection thread M 30 x 1.5, control range may be limited or locked by using the hidden limiting elements, marking of a set value by using the memo disk, tactile setting device, control range 7-28°C.

white model, with '0' setting 101 14 65

without memo disk,
please inquire about customised memo disk,

with '0' setting 101 14 66

without '0' setting 101 14 64

signal grey model (RAL 7004), with collar nut cover,
with '0' setting 101 14 61

anthracite model (RAL 7016), with collar nut cover,
with '0' setting 101 14 67

gold plated model, with collar nut cover,
with '0' setting 101 14 68

chrome plate model, with collar nut cover,
with '0' setting 101 14 69

as above but with remote sensor

white model, with '0' setting 101 16 65

capillary 2 m long 101 16 66

capillary 5 m long 101 16 67

capillary 10 m long 101 16 67

white model, without '0' setting
capillary 2 m long 101 16 82

Oventrop thermostat "Uni LH" with liquid sensor for indoor swimming pools and medical baths, connection thread M 30 x 1.5, control range may be limited or locked by using the hidden limiting elements, marking of a set value by using the memo disk, tactile setting device, control range 7-38°C.

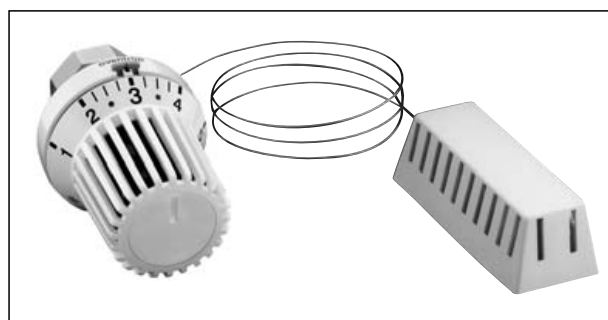
white model, without '0' setting 101 14 88

as above but with remote sensor

capillary 2 m long 101 16 88



Thermostat "Uni XH"



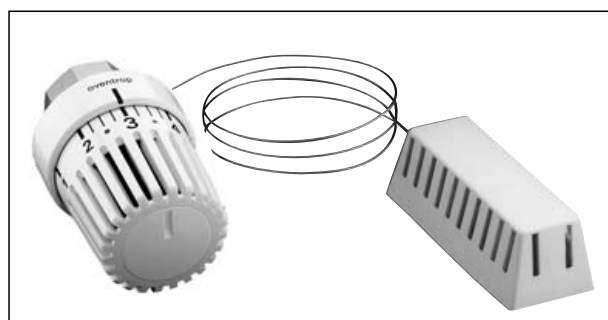
Thermostat "Uni XH" with remote sensor



Thermostat "Uni XHM"



Thermostat "Uni LH"



Thermostat "Uni LH" with remote sensor

Oventrop thermostat “Uni LHC” with liquid sensor and additional cooling position (cooling depending on the flow temperature), connection thread M 30 x 1.5, control range may be limited or locked by using the hidden limiting elements, marking of a set value by using the memo disk, control range 7-28°C.

white model, without ‘0’ setting, 101 14 85
with additional cooling position C

Oventrop thermostat with remote control “Uni FH” with liquid sensor, connection thread M 30 x 1.5, control range may be limited or locked by using the hidden limiting elements, control range 7-28°C.

white model, with ‘0’ setting
capillary 2 m long 101 22 95
capillary 5 m long 101 22 96
capillary 10 m long 101 22 97

as above but with additional remote sensor
white model, with ‘0’ setting
capillary 2 m long 101 23 95
capillary 5 m long 101 23 96

Oventrop thermostat with remote control “Uni FHC” with liquid sensor and additional cooling position (cooling depending on the flow temperature), connection thread M 30 x 1.5, control range may be limited or locked by using the hidden limiting elements, control range 7-28°C.

white model, without ‘0’ setting,
with additional cooling position C 101 24 94
capillary 5 m long

Oventrop thermostat “Uni LHB”, lockshield configuration, with liquid sensor, connection thread M 30 x 1.5, setting of the hidden control range can only be carried out by using a special tool (the set nominal temperature value is not modified by turning the handgrip), with integrated anti-theft device and increased flexional strength (load up to 100 kg), control range 7-28°C.

white model, without ‘0’ setting 101 14 10

Oventrop thermostat “pinox H” with liquid sensor, connection thread M 30 x 1.5, with lever for an easy and precise temperature setting, including chrome plated or white collar nut cover, control range 7-28°C.

chrome plated model, without ‘0’ setting 101 21 65

white model, without ‘0’ setting 101 21 66

Oventrop thermostat “Uni SH” with liquid sensor, connection thread M 30 x 1.5, tactile setting device, control range 7-28°C.

white/chrome plated model, with ‘0’ setting 101 20 65

white model, with ‘0’ setting 101 20 66

chrome plated model, with ‘0’ setting 101 20 69

stainless steel finish, with ‘0’ setting 101 20 85



Thermostat “Uni LHC”



Thermostat with remote control “Uni FH”



Thermostat with remote control “Uni FHC”



Thermostat “Uni LHB”



Thermostat “pinox H”



Thermostat “Uni SH”

Oventrop thermostat “vindo TH” with liquid sensor, connection thread M 30 x 1.5, control range may be limited or locked by using the limiting elements, tactile setting device, control range 7-28°C.

white model, with ‘0’ setting 101 30 66

Oventrop thermostat “Uni CH” with liquid sensor and moveable decor ring to hide the collar nut, connection thread M 30 x 1.5, design Colani, control range 7-28°C.

white model, without ‘0’ setting 101 12 65

Oventrop thermostat “Uni XD” with liquid sensor, can be fitted without adapter to the integrated distributors and thermostatic radiator valves with squeeze connection of the company Danfoss – series RA, control range may be limited or locked by using the limiting elements, tactile setting device, marking of a set value by using the memo disk, control range 7-28°C.

white model,
with ‘0’ setting 101 13 75
without ‘0’ setting 101 13 74

as above but with remote sensor

white model, with ‘0’ setting
capillary 2 m long 101 15 75

Oventrop thermostat “Uni LD” with liquid sensor, can be fitted without adapter to the integrated distributors and thermostatic radiator valves with squeeze connection of the company Danfoss – series RA, control range may be limited or locked by using the hidden limiting elements, marking of a set value by using the memo disk, tactile setting device, control range 7-28°C.

white model, with ‘0’ setting 101 14 75

without memo disk,
please inquire about customised memo disk,
with ‘0’ setting 101 14 76
without ‘0’ setting 101 14 72

signal grey model (RAL 7004), with collar nut cover,
with ‘0’ setting 101 14 70

anthracite model (RAL 7016), with collar nut cover,
with ‘0’ setting 101 14 78

gold plated model, with collar nut cover,
with ‘0’ setting 101 14 80

chrome plate model, with collar nut cover,
with ‘0’ setting 101 14 79

as above but with remote sensor

white model, with ‘0’ setting
capillary 2 m long 101 16 85

as above but with remote control “Uni FD”

white model, with ‘0’ setting
without collar nut cover
capillary 2 m long 101 22 75



Thermostat “vindo TH”



Thermostat “Uni CH”



Thermostat “Uni XD”



Thermostat “Uni LD”



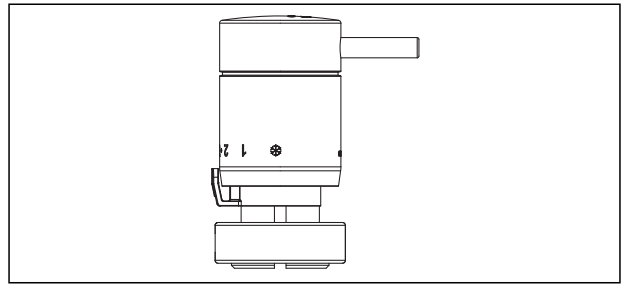
Thermostat “Uni LD” with remote sensor



Thermostat with remote control “Uni FD”

Oventrop thermostat "pinox D" with liquid sensor, can be fitted without adapter to the integrated distributors and thermostatic radiator valves with squeeze connection of the company Danfoss – series RA, with lever for an easy and precise temperature setting, including chrome plated or white collar nut cover, control range 7-28°C.

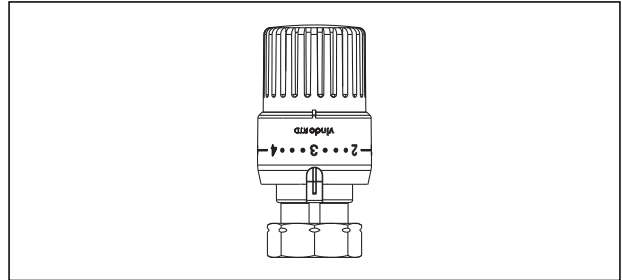
chrome plated model, without '0' setting 101 21 75



Thermostat "pinox D"

Oventrop thermostat "vindo TD" with liquid sensor, can be fitted without adapter to the integrated distributors and thermostatic radiator valves with squeeze connection of the company Danfoss – series RA, control range may be limited or locked by using the limiting elements, tactile setting device, control range 7-28°C.

white model, with '0' setting 101 30 76

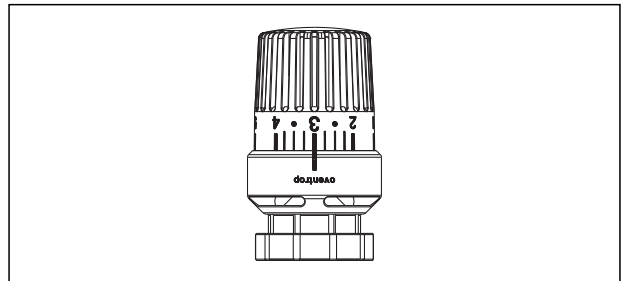


Thermostat "vindo RTD"

Oventrop thermostat "Uni RTD" with liquid sensor, can be fitted without adapter to the thermostatic radiator valves with connection thread M 30 x 1.5 of the company Danfoss – series RTD, control range may be limited or locked by using the limiting elements, control range 7-28°C.

Cannot be used with Oventrop valves with connection thread M 30 x 1.5.

white model, with '0' setting 161 30 66



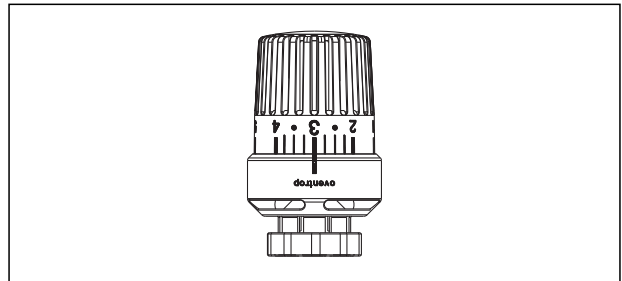
Thermostat "Uni LDV"

Oventrop thermostat "Uni LDV" with liquid sensor, can be fitted without adapter to the thermostatic radiator valves with squeeze connection of the company Danfoss – series RAV, control range may be limited or locked by using the hidden limiting elements, marking of a set value by using the memo disk, tactile setting device, control range 7-28°C.

white model, with '0' setting 161 65 75

Oventrop thermostat "Uni LDVL" with liquid sensor, can be fitted without adapter to the thermostatic radiator valves with squeeze connection of the company Danfoss – series RAVL, control range may be limited or locked by using the hidden limiting elements, marking of a set value by using the memo disk, tactile setting device, control range 7-28°C.

white model, with '0' setting 161 66 75

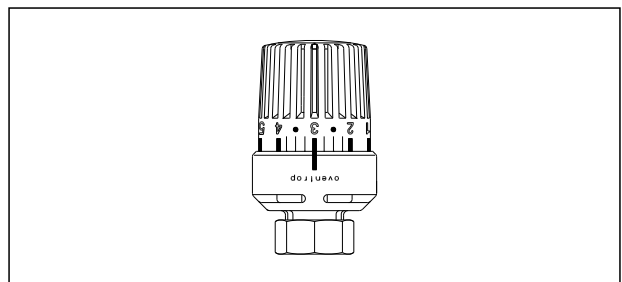


Thermostat "Uni LDVL"

Thermostats M 30 x 1.0

Oventrop thermostat "Uni L" with liquid sensor, connection thread M 30 x 1.0, control range may be limited or locked by using the hidden limiting elements, marking of a set value by using the memo disk, tactile setting device, control range 7-28°C.

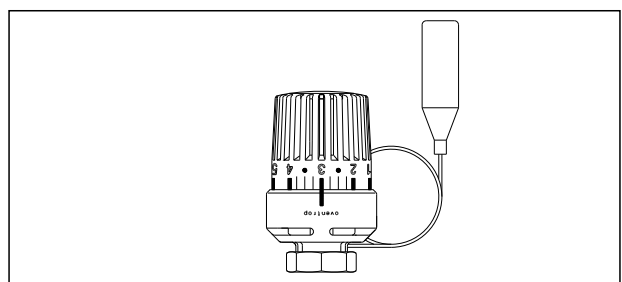
white model, with '0' setting 101 14 01



Thermostat "Uni L"

as above but with remote sensor
white model, with '0' setting
capillary 2 m long

101 16 51

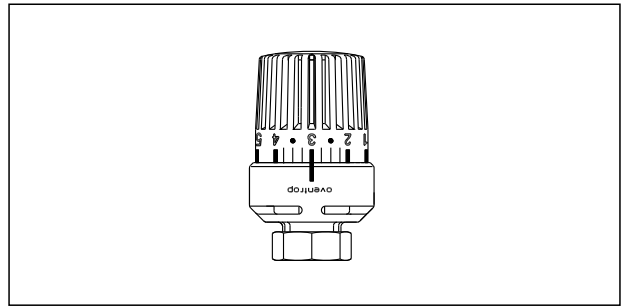


Thermostat "Uni L" with remote sensor

Special thermostats

Oventrop thermostat “Uni LA” with liquid sensor, connection thread M 28 x 1.5, control range may be limited or locked by using the hidden limiting elements, marking of a set value by using the memo disk, tactile setting device, control range 7-28°C. Suitable for Herz thermostatic radiator valve bodies.

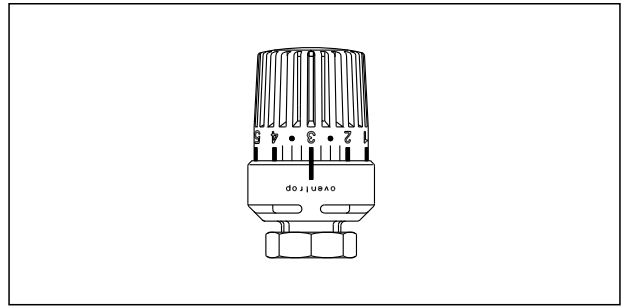
white model,
with '0' setting 161 34 01
without '0' setting 161 34 65



Thermostat “Uni LA” M 28 x 1.5

Oventrop thermostat “Uni LI” with liquid sensor, connection thread M 32 x 1.0, control range may be limited or locked by using the hidden limiting elements, marking of a set value by using the memo disk, tactile setting device, control range 7-28°C. Suitable for Ista thermostatic radiator valve bodies.

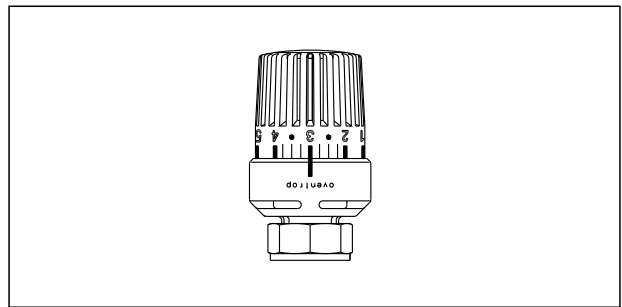
white model, with '0' setting 161 62 00



Thermostat “Uni LI” M 32 x 1.0

Oventrop thermostat “Uni LR” with liquid sensor, connection thread M 33 x 2.0, control range may be limited or locked by using the hidden limiting elements, marking of a set value by using the memo disk, tactile setting device, control range 7-28°C. Suitable for Rosswein thermostatic radiator valve bodies.

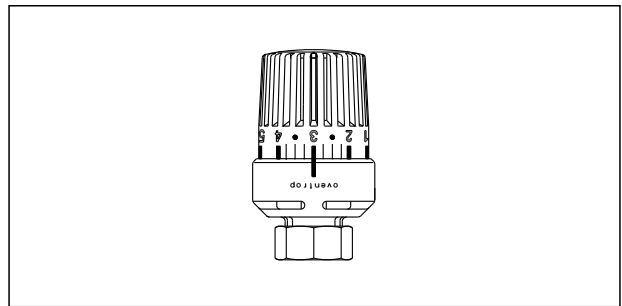
white model, with '0' setting 161 63 01



Thermostat “Uni LR” M 33 x 2.0

Oventrop thermostat “Uni LK” with liquid sensor, connection thread M 28 x 1.0, control range may be limited or locked by using the hidden limiting elements, marking of a set value by using the memo disk, tactile setting device, control range 7-28°C. Suitable for Kosmia thermostatic radiator valve bodies.

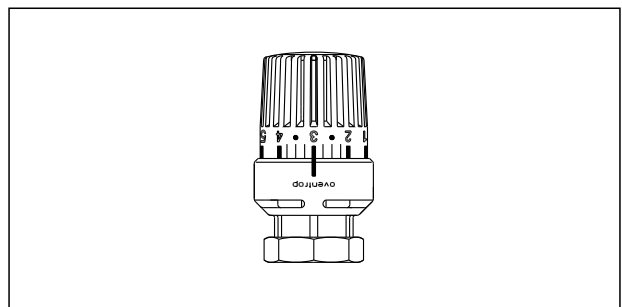
white model, with '0' setting 161 35 01



Thermostat “Uni LK” M 28 x 1.0

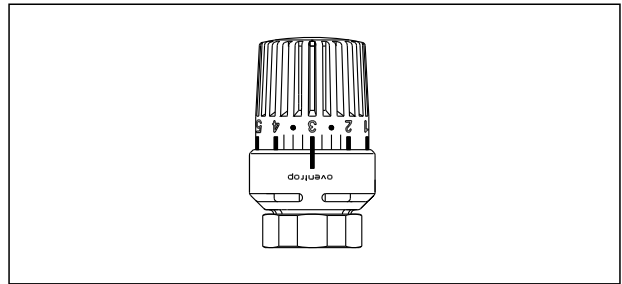
Oventrop thermostat “Uni LV” with liquid sensor, squeeze connection with collar nut, control range may be limited or locked by using the hidden limiting elements, marking of a set value by using the memo disk, tactile setting device, control range 7-28°C. Suitable for Vaillant thermostatic radiator valve bodies manufactured since 1987.

white model, with '0' setting 161 60 01



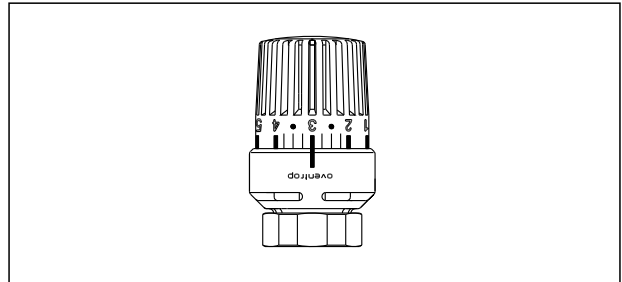
Thermostat “Uni LV” with squeeze connection

Oventrop thermostat “Uni LM” with liquid sensor, connection thread M 38 x 1.5, control range may be limited or locked by using the hidden limiting elements, marking of a set value by using the memo disk, tactile setting device, control range 7-28°C. Suitable for Meges thermostatic radiator valve bodies.
white model, with ‘0’ setting 161 61 00



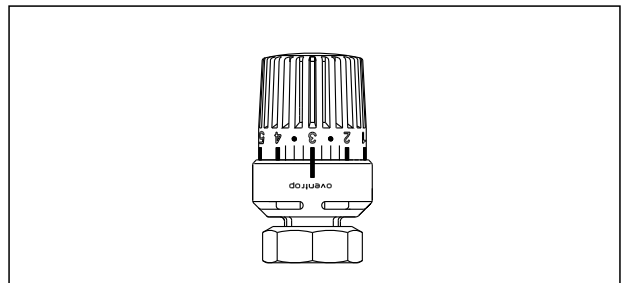
Thermostat “Uni LM” M 38 x 1.5

Oventrop thermostat “Uni LO” with liquid sensor, connection thread M 38 x 1.5, control range may be limited or locked by using the hidden limiting elements, marking of a set value by using the memo disk, tactile setting device, control range 7-28°C. Suitable for Ista thermostatic radiator valve bodies.
white model, with ‘0’ setting 161 65 00



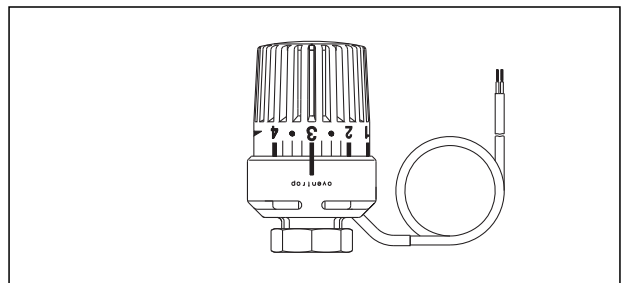
Thermostat “Uni LO” M 38 x 1.5

Oventrop thermostat with liquid sensor, connection thread M 40 x 1.5, marking of a set value by using the memo disk, control range 7-28°C. Only for Oventrop “maxi/mini” thermostatic radiator valves manufactured up to 1974. The valve of this series are no longer produced.
anthracite/white model, with ‘0’ setting 101 55 00



Thermostat for “maxi/mini” valves M 40 x 1.5

Oventrop thermostat “Uni LHZ” with liquid sensor, integrated electric temperature setback, connection thread M 30 x 1.5, control range may be limited or locked by using the hidden limiting elements, marking of a set value by using the memo disk, tactile setting device, control range 7-28°C.
Operating current: 24V AC/DC
Power consumption: approx. 0.6 V
Temperature setback: up to about 7 K
Connecting cable: 2 x 0.25 mm²
Length 1 m
white model, without ‘0’ setting 115 03 00



Thermostat “Uni LHZ” M 30 x 1.5

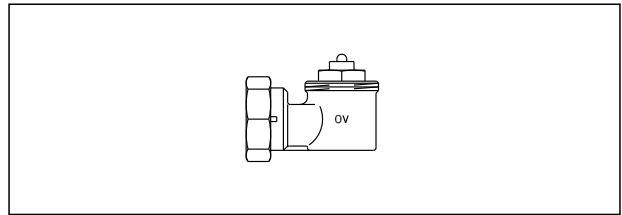
Accessories for thermostats

Angle pattern adapter

For the connection of thermostats at a right angle to the operating direction of the valve, especially suitable for radiators with integrated distributor, connection at the left and right hand side of the radiator.

both ports connection thread M 30 x 1.5

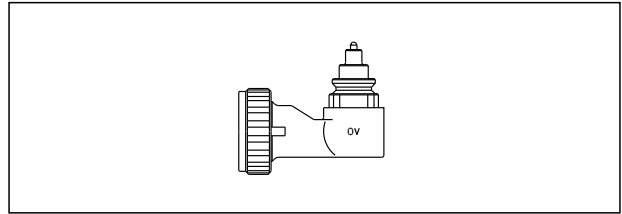
white model 101 14 50
anthracite model 164 14 51



Angle pattern adapter both ports connection thread M 30 x 1.5

both ports squeeze connection

white model 101 14 52
Thermostatic side suitable for thermostats with squeeze connection ("Uni XD", "Uni LD", "vindo TD" and "pinox D"). Valve side suitable for valves of the company Danfoss, series RA.



Angle pattern adapter both ports with squeeze connection

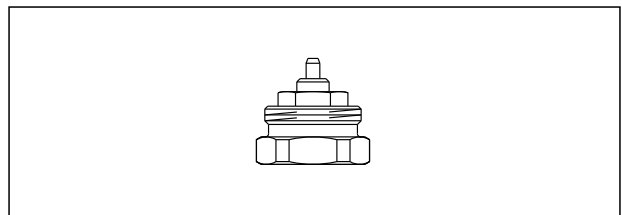
Adapter

nickel plated, for the conversion of thermostatic radiator valves with connection thread

M 30 x 1.0 to M 30 x 1.5 (for Oventrop valves up to 1998) 101 14 45

Connection to the valve: M 30 x 1.0
Connection to the thermostat: M 30 x 1.5

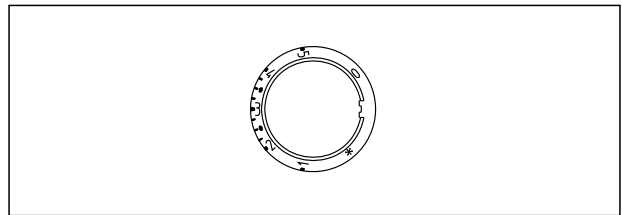
M 32 x 1.0 to M 30 x 1.5 (for Ista valves) 166 14 45
Connection to the valve: M 32 x 1.0
Connection to the thermostat: M 30 x 1.5



Adapter

"Uni Clip" graduated collar for "Uni XH", "Uni XHM" and "Uni XD"
Due to the vertical position of the figures, the set values can be easily read off in case of lateral connection of the thermostat (for thermostats with '0' setting).

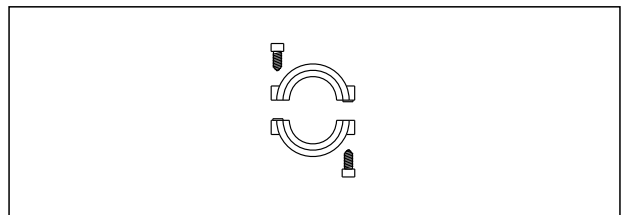
right hand model 101 13 96
left hand model 101 13 97



"Uni Clip"

Anti-theft ring

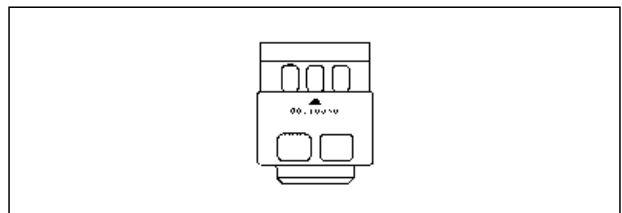
white model
for thermostats "Uni XH", "Uni XHM", "Uni LH", "Uni LHC", "Uni LHZ", "Uni SH", "Uni L", "Uni LA" and "vindo TH" 101 17 66
for thermostats "Uni XD", "Uni LD" and "vindo TD" 101 17 75



Anti-theft ring

Reinforcing cap for the stabilisation and protection of the thermostat from theft and vandalism.

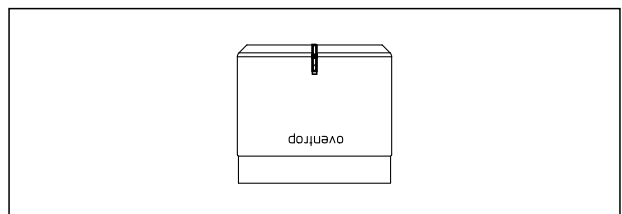
white model
for thermostats "Uni LH", "Uni LHC", "Uni LHZ" and "Uni LA"
not lockable 101 18 65
lockable 101 18 66
for thermostat "Uni L"
not lockable 101 18 01
lockable 101 18 11
for thermostat "Uni LD"
not lockable 101 18 75



Reinforcing cap

"SH Cap"

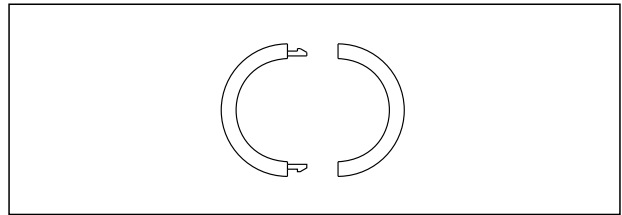
Design cover for thermostat "Uni SH"
anthracite model (RAL 7016) 101 20 80
chrome plated model 101 20 81
white model (RAL 9016) 101 20 82



"SH-Cap"

Cover to hide the collar nut of the thermostats “Uni XH”, “Uni XHM”, “Uni LH”, “Uni LHC”, “Uni LHZ”, “Uni SH”, “Uni LA”, “vindo TH” and “pinox H”

white model	101 13 93
anthracite model	101 13 80
chrome plated model	101 13 81
gold plated model	101 13 82
stainless steel finish	101 13 83



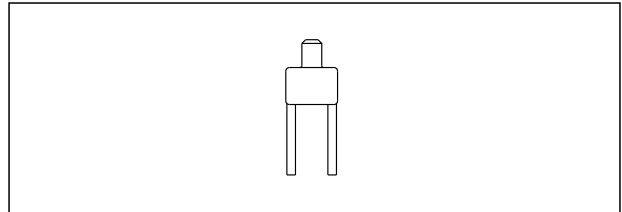
Collar nut cover

for thermostat “Uni L”
white model

101 14 93

Tool for releasing the graduation cap and clips for thermostats “Uni LH”, “Uni LHC”, “Uni LHZ”, “Uni LD”, “Uni LDV”, “Uni LDVL”, “Uni L” and special thermostats

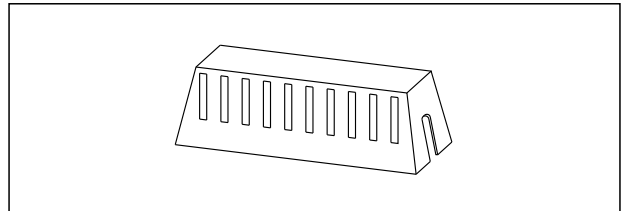
198 91 00



Tool

Cover for remote sensor,
suitable for all remote sensors
white model

101 16 99

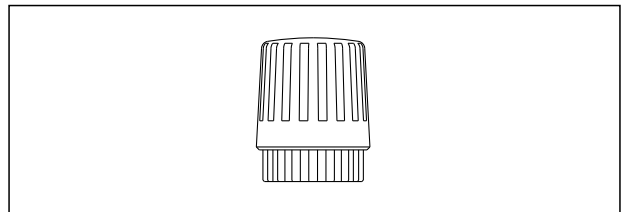


Cover

Manual head
white model
Connection thread M 30 x 1.5
Squeeze connection

101 25 65

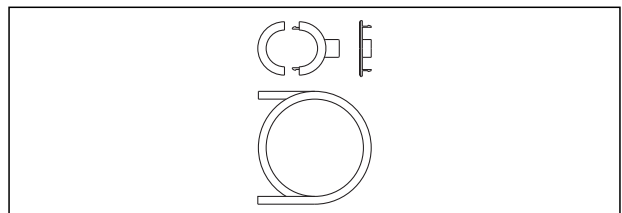
101 25 75



Manual head

Wall connection set for thermostat “Uni LHZ”
as additional protection for the wall installation (in a flush box) of
the connecting cable.
white model

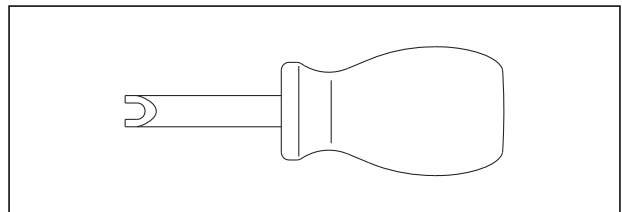
115 03 90



Wall connection set

Setting key
for nominal temperature setting
at the thermostat “Uni LHB”

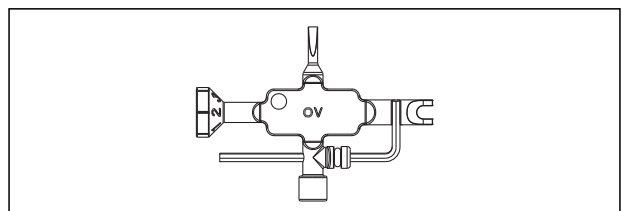
101 14 97



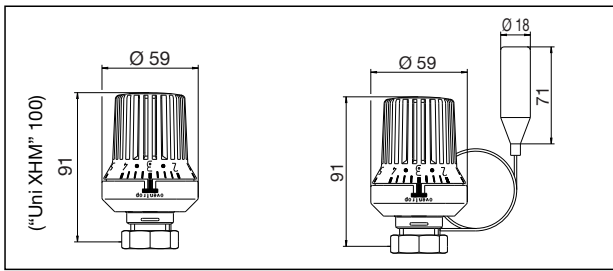
Setting key

Universal tool
for nominal temperature setting at the thermostat “Uni LHB”,
presetting at the valve “Series AV6” as well as releasing the gradu-
ated cap of the thermostats “Uni LH”, “Uni LHC”, “Uni LHZ”,
“Uni LD”, “Uni LDV”, “Uni LDVL”, “Uni L” and special thermostats.
With additional Allen key (2.5 mm) to secure the thermostat
“Uni LHB”

101 14 96

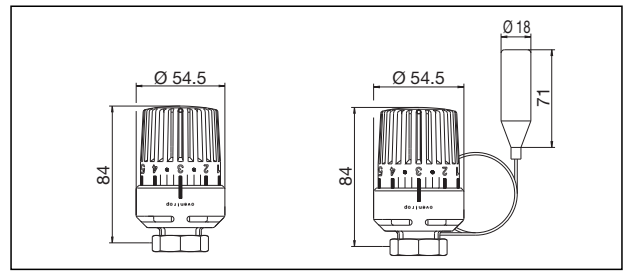


Universal tool



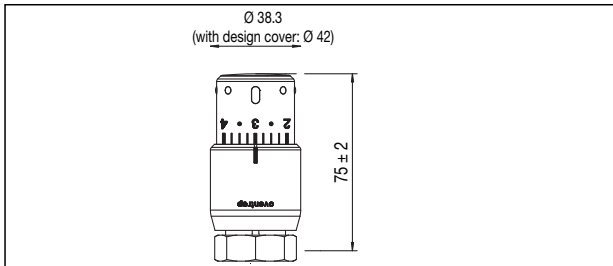
Thermostats "Uni XH",
"Uni XHT", "Uni XHM"

Thermostat
"Uni XH" with remote sensor

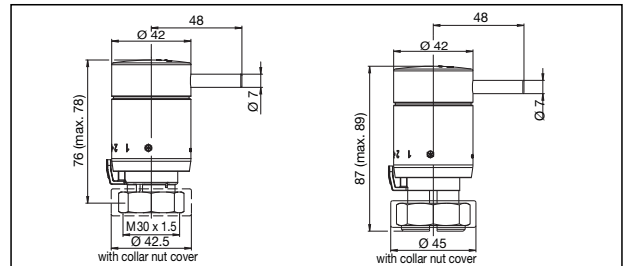


Thermostat
"Uni LH"

Thermostat
"Uni LH" with remote sensor

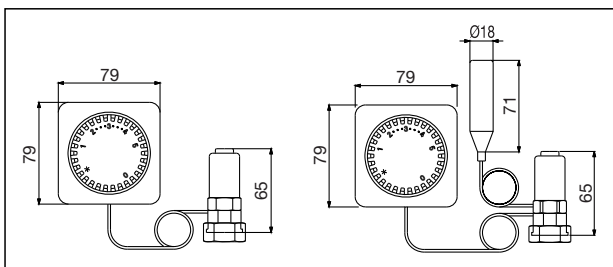


Thermostat "Uni SH"



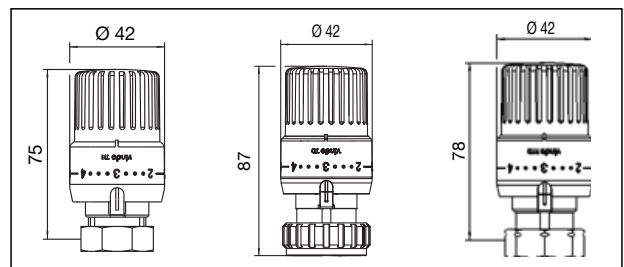
Thermostat "pinox H"

Thermostat "pinox D"



Remote control depth 54 mm

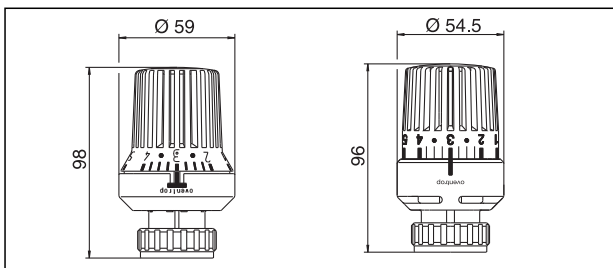
Remote control with additional
remote sensor depth 54 mm



Thermostat
"vindo TH"

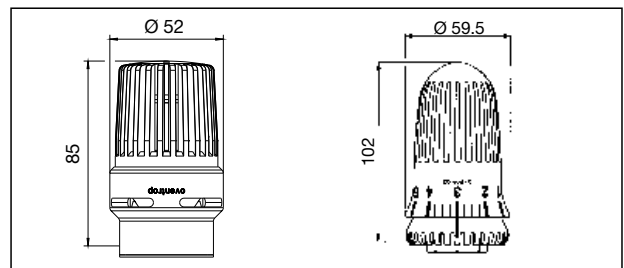
Thermostat
"vindo TD"

Thermostat
"vindo RTD"



Thermostat "Uni XD"

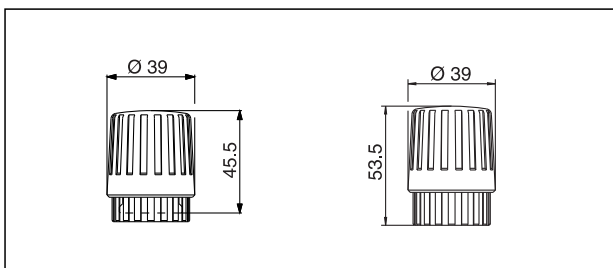
Thermostat "Uni LD"



Thermostat "Uni LHB"

Thermostat "Uni CH"

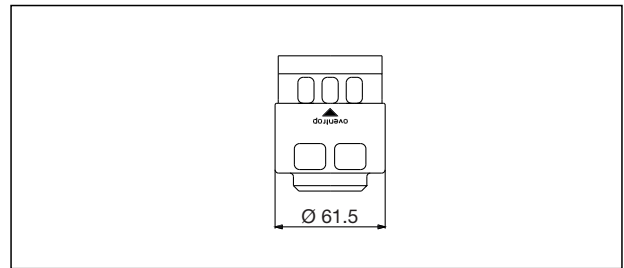
Manual head



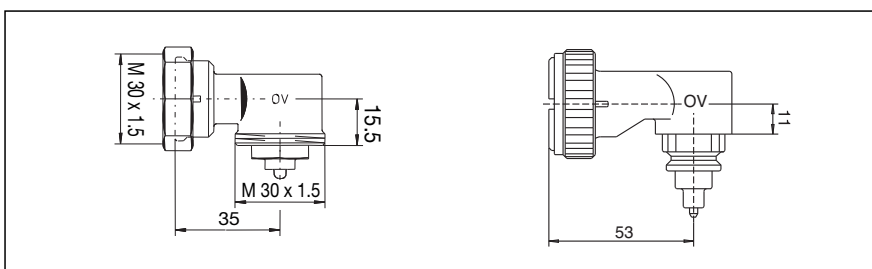
Item no. 101 25 65

Item no. 101 25 75

Accessories



Reinforcing cap "Uni LH"



Angle pattern adapter item no. 101 14 50

Angle pattern adapter with squeeze
connection item no. 101 14 52

Demands and technical data of the thermostats combined with Oventrop valves

Demands:

Oventrop thermostatic radiator valves comply with the EN 215 standard.

In addition, the Oventrop thermostatic radiator valves of the "Series F" correspond to:

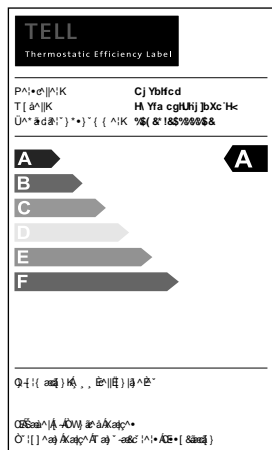
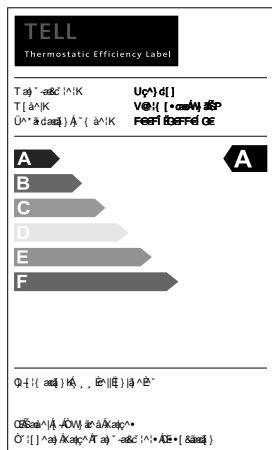
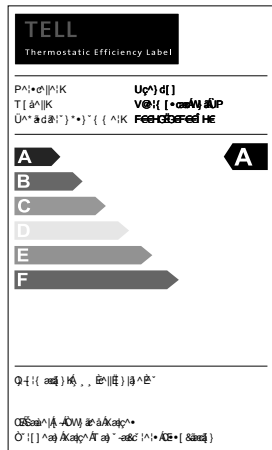
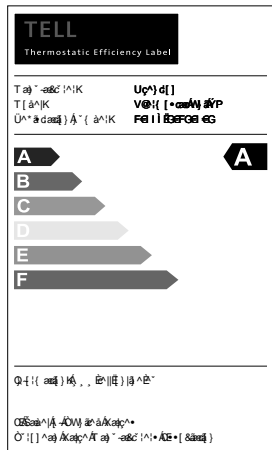
- the directives of the Association for District Heating (AGWF)
- the conditions of the company Esso (TA list)

The Oventrop thermostatic radiator valves fulfil the demands of the Energy Saving Directive (EnEV). They are automatically working "room by room" regulating devices (EnEV § 14).

The Oventrop valves of the "Series A, AV 9, AV 6, RF and F" (angle and straight pattern valves DN 10 – DN 20) with the thermostats "Uni XH", "Uni LH", "Uni SH", "vindo TH", "Uni LGH" and "Uni L" as well as "Uni LH" and "Uni L" with remote sensor and "Series VN" with the thermostat "Uni LD" are KEYMARK tested and certified (Reg.-No. 011-6T0002).

The Oventrop thermostats "Uni XH", "Uni LH", "Uni SH" and "vindo TH" comply with the requirements of the Energy Efficiency Class A of the "Thermostatic Efficiency Label" (TELL).

Further details can be obtained from the installation and operating instructions.



Technical data:

- Nominal flow rate: (see flow chart in Oventrop data sheet "Thermostatic radiator valves")
- Max. flow of heating water: (see flow chart in Oventrop data sheet "Thermostatic radiator valves")
- Control range: 7°C-28°C
- Position 3: Δ about 20°C
- Max. differential pressure against which the valve closes:
 - 1 bar: "Series A, AV 9, AV 6, E, ADV 6, RF, RFV 6"
 - 3 bar: "Series F"
- Valve body material: bronze/brass
- Hysteresis:
 - "Uni XH": 0.2 K
 - "Uni LH", "Uni LD": 0.2 K
 - "Uni L": 0.2 K
 - "Uni SH": 0.2 K
 - "vindo TH": 0.2 K
 - "Uni CH": 0.2 K
- Heating water temperature effect:
 - "Uni XH": 0.37 K/30 K
 - "Uni LH", "Uni LD", "Uni L": 0.65 K/30 K
 - "Uni SH": 0.9 K/30 K
 - "vindo TH": 0.9 K/30 K
 - "Uni CH": 0.65 K/30 K
 - "Uni XH", "Uni LH", "Uni L", "Uni DH" with remote sensor: 0.2 K/30 K
- Differential pressure effect:
 - "Uni XH": 0.4 K/0.5 bar
 - "Uni LH", "Uni LD", "Uni L": 0.4 K/0.5 bar
 - "Uni SH": 0.4 K/0.5 bar
 - "vindo TH": 0.4 K/0.5 bar
 - "Uni CH": 0.4 K/0.5 bar
- Closing time:
 - "Uni XH": 22 minutes
 - "Uni LH", "Uni LD", "Uni L": 23 minutes
 - "Uni SH": 16 minutes
 - "vindo TH": 18 minutes
 - "Uni CH": 23 minutes
- Sensor temperature: 0°C-50°C
- Max. heating water temperature: 120°C (90°C for thermostat "Uni XHT")
- Storage temperature: -10°C - +50°C

Subject to technical modification without notice.

Product range 1
ti 112-0/10/MW
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For an overview of our global presence visit www.ventrop.de

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