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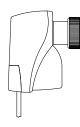












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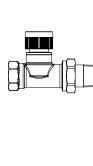
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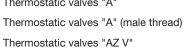
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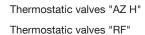
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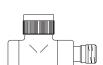
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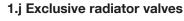
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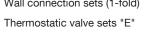


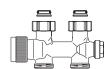


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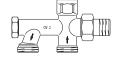
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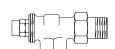
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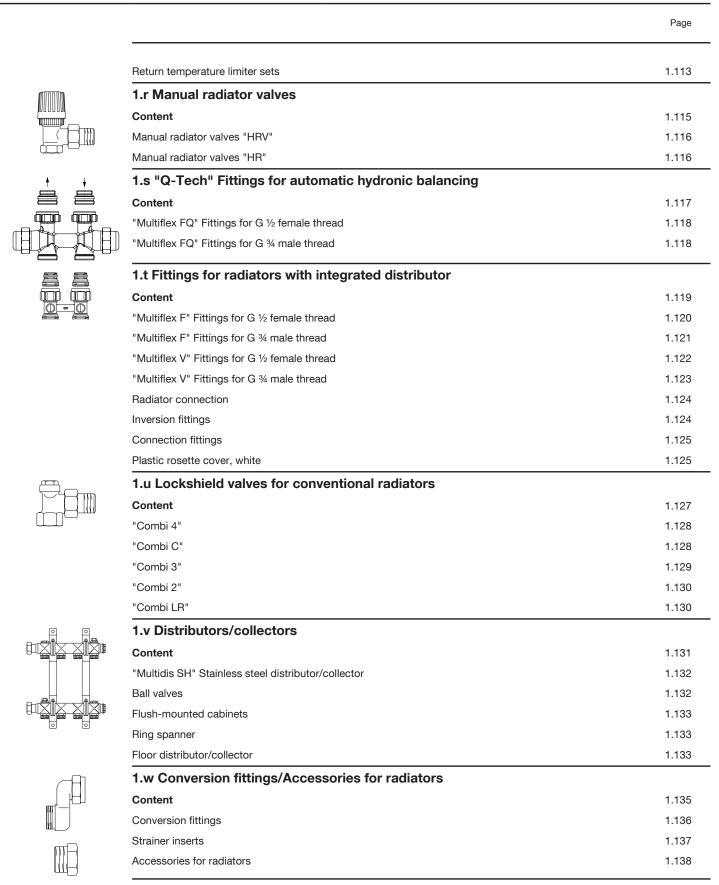
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"Aktor T" Electrothermal actuators

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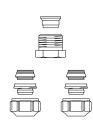
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white

white

1.a Thermostats Thermostat "Uni XH" (M 30 x 1.5) Thermostat "Uni XHM" (M 30 x 1.5) Thermostat "Uni XHT" (M 30 x 1.5)

Packing Article-No. Control Article Hint range unit

(10) 1011365

1011364

(10)

Thermostat "Uni XH" (M 30 x 1.5)

7-28 °C

7-28 °C

with liquid sensor marking "Uni XH" on lower side Temperature setting may be limited or locked by using the limiting elements.

With setting device for visually handicapped persons.

Marking of a set value by using the memo disk. Max. heating water temperature: 120 °C

with '0' setting without '0' setting Awards:

Interclima Paris Trophée du Design

Industrial Design Forum Hanover Award iF

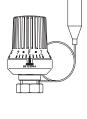


white, with remote sensor



with '0' setting

without '0' setting



Thermostat "Uni XHM" (M 30 x 1.5)

with liquid sensor marking "Uni XHM" on lower side with higher specific piston stroke

(10) 1011360 7-28 °C white

In combination with valves, the specific piston stroke and thus the ky-value is higher compared to the other Oventrop valves. Especially suitable for the valve design with 1K P-deviation.

with '0' setting



Thermostat "Uni XHT" (M 30 x 1.5)

with liquid sensor marking "Uni XHT" on lower side

7-28 °C (10) 1011300 transparent

Max. heating water temperature: 90 °C

with '0' setting

For further information see "Technical information":



oventrop

Room temperature and climate control / Hydronic balancing at the radiator

Article	Control	Packing Article-No.	Hint
Article	range	unit Article-No.	1 11111

(10) **1011488**

Thermostat "Uni LH" (M 30 x 1.5)

with liquid sensor

white

marking "Uni LH" on lower side

Temperature setting may be limited or locked by using the concealed limiting elements. With setting device for visually handicapped persons. Marking of a set value by using the memo disk.

Max. heating water temperature: 120 °C

with '0' setting



white 7-28 °C (10) 1011465 white 7-28 °C (25) 1011466° without memo disk, please inquire about customised memo disk white 7-28 °C (10) 1011464

8-38 °C

without '0' setting

For indoor swimming pools and health spa.



Busse Design Ulm Longlife Design Award



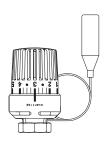
Information: www.tell-online.eu

A Label of EUnited Valves



signal grey with	7-28 °C	(25)	1011461
collar nut cover			
(RAL 7004)			
anthracite with	7-28 °C	(25)	1011467
collar nut cover			
(RAL 7016)			
gold plated	7-28 °C	(25)	1011468
with collar nut cover			
chrome plated	7-28 °C	(25)	1011469
with collar nut cover		. ,	

with '0' setting



white, with remote sensor			
capillary 2 m long capillary 5 m long capillary 10 m long	7-28 °C 7-28 °C 7-28 °C	(75) (75)	1011665 1011666 1011667
capillary 2 m long	7-28 °C	(75)	1011682

8-38 °C

with '0' setting

without '0' setting

For indoor swimming pools and health spa.

without '0' setting

For further information see "Technical information":





Thermostat "Uni LGH" (M 30 x 1.5)

with liquid sensor

capillary 2 m long

white (100) 1018561

Thermostat accessories: Pages 1.17, 10.10

(10) 1011688

1.a Thermostats Thermostat "Uni LHB" (M 30 x 1.5) Thermostat "Uni SH" (M 30 x 1.5)

Article

Control range

Packing Article-No. unit

Hint

Thermostat "Uni LHB" (M 30 x 1.5)

with liquid sensor marking "Uni LHB" underneath the memo disk

Lockshield configuration, lockable, with integrated anti-theft device and increased flectional strength.

Max. heating water temperature: 120 °C Award:



universal design award

without '0' setting



white 7-28 °C (10) 1011410



Setting key for thermostat "Uni LHB"

1011497

For nominal temperature setting at the thermostat.

Thermostat "Uni SH" (M 30 x 1.5)

with liquid sensor marking "Uni SH" on lower side With setting device for visually handicapped

Max. heating water temperature: 120 °C



white/chrome plated 7-28 °C (10) 1012065 7-28 °C 1012066 white (10)chrome plated 7-28 °C (10)1012069 stainless steel finish 7-28 °C (10)1012085 with '0' setting

With mounted design cover "SH-Cap" With mounted design cover "SH-Cap"



"SH-Cap" Design covers

anthracite (RAL 7016) (25) 1012080 chrome plated (25) 1012081 white 1012082 (25)

Awards:

International Design Award Baden-Württemberg

DESIGN PLUS ISH Frankfurt



Design Award of the Federal Republic of Germany Nominated



Good Design Award Japan



universal design award



The Chicago Athenaeum: Museum of Architecture and Design GOOD DESIGN Award

"Uni SH" in combination with

"Multiblock T" in stainless steel finish:



Design Centre Essen reddot design award



Design Award of the Federal Republic of Germany Nominated

For further information see "Technical information".





1.a Thermostats Thermostat "pinox H" (M 30 x 1.5) Thermostat "vindo TH" (M 30 x 1.5) Thermostat "Uni CH" (M 30 x 1.5)

Article

Control range

Packing Article-No. unit

Hint



Thermostat "pinox H" (M 30 x 1.5)

with liquid sensor marking "pinox H" on lower side

(12) 1012165 chrome plated white (12) 1012166

Single-lever thermostat.

This thermostat can be fitted to all thermostatic radiator valves with connection thread M 30 x 1.5. Design similar to that of singlelever taps.

Max. heating water temperature: 120 °C

without '0' setting

The thermostat "pinox H" has features which are protected by patent.

Awards:

Innovation award Architecture & Technology

DESIGN PLUS ISH Frankfurt 2013



ICONIC AWARDS 2013



German Design Award 2014



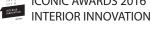
Interclima Paris Trophée du Design



Industrial Design Forum Hanover Award iF



ICONIC AWARDS 2016



Thermostat "vindo TH" (M 30 x 1.5) with liquid sensor

7-28 °C (10) 1013066 white

Temperature setting may be limited or locked by using the limiting elements. With setting device for visually handicapped persons. Max. heating water temperature: 120 °C

with '0' setting

The thermostat "vindo TH" has features which are protected by patent.

Awards:

5 5 C German Designer Club Good Design 08



Design Award of the Federal Republic of Germany Nominated



Label of EUnited Valves European Valve Manufacturers Association

Thermostat "Uni CH" (M 30 x 1.5)

Design Colami

with liquid sensor marking "Uni CH" on lower side

white 7-28 °C (10) 1011265 The thermostat "Uni CH" features a moveable collar not cover.

Max. heating water temperature: 120 °C

without '0' setting

Thermostat accessories: Pages 1.17, 10.10

Room temperature and climate control / Hydronic balancing at oventrop control / Hy the radiator

Thermostat with remote control "Uni FH" (M 30 x 1.5)		Thermostats with remote control and with	
Article	Control range	Article-No.	Hint

Thermostat with remote control "Uni FH"

1012295 capillary 2 m long 7-28 °C 1012296 capillary 5 m long 7-28 °C capillary 10 m long 7-28 °C 1012297

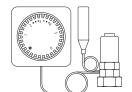
remote transmission are especially suitable for trench heaters, encased radiators and surface heating systems.

Max. heating water temperature: 120 °C

with '0' setting

white,

with additional remote sensor



capillary 2 m long 7-28 °C 1012395 capillary 5 m long 7-28 °C 1012396

with '0' setting For further information see "Technical information":

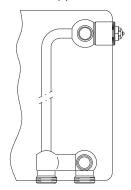


The thermostats "Uni XH", "Uni XHM", "Uni XHT", "Uni LH", "Uni LHB", "Uni LHZ", "Uni FH", "Uni SH", "Uni CH", "vindo TH" and "pinox H" can be fitted without adapter to the radiators with integrated distributor of the following manufacturers:

- ACOVA AlarkoArbonia - Baufa - Baykan boki - Bemm Borer - Bremo BrugmanCaradon-Stelrad CelikpanCöskünöz ConceptDEF
- Delta DemradDiaNorm - Dia-therm DunaferrDURA - Emco - Heatline - Henrad - Hoval
- Kampmann KermiKorado - Purmo - Radson RettigRuntal - Starpan SuperiaTermoteknikUS-Steel HM-Heizkörper - IMAS Vasco JagaJugotherm - VEHA JugotKalor Zehnder Zenith

(Subject to change without notice)

Example of an integrated distributor for two pipe heating systems. G $^{3}\!\!/_{4}$ male thread, distance between pipe centres 50 mm.



1.a Thermostats Thermostat "Uni XD" (squeeze connection) Thermostat "Uni LD" (squeeze connection)

Packing Article-No. Control Article Hint range unit

(10) 1011375

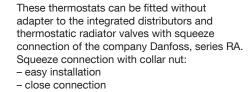
(10) 1011374



Thermostat "Uni XD" (squeeze connection)

with liquid sensor

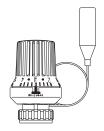
marking "Uni XD" on lower side



Temperature setting may be limited or locked by using the limiting elements. With setting device for visually handicapped persons.

Marking of a set value by using the memo disk. Max. heating water temperature: 120 °C

with '0' setting without '0' setting



white,

white

white

with remote sensor

capillary 2 m long 7-28 °C (10) 1011575

7-28 °C

7-28 °C

with '0' setting

Thermostat "Uni LD" (squeeze connection)

with liquid sensor

marking "Uni LD" on lower side

Temperature setting may be limited or locked by using the concealed limiting elements. With setting device for visually handicapped persons.

Marking of a set value by using the memo disk. Max. heating water temperature: 120 °C



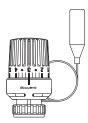
7-28 °C white (10) 1011472 white 7-28 °C (10) 1011475 white 7-28 °C (25) 1011476° without memo disk, please inquire about customised memo disk

without '0' setting with '0' setting with '0' setting



7-28 °C (25) 1011470 signal grey with collar nut cover (RAL 7004) anthracite with (25)1011478 collar nut cover chrome plated with (25) 1011479 collar nut cover gold plated with (25) 1011480 collar nut cover

with '0' setting



white, with remote sensor

capillary 2 m long 7-28 °C (75) 1011685 with '0' setting

For further information see "Technical information":



1.a Thermostats Thermostat "pinox D" (squeeze connection) Thermostat "vindo TD" (squeeze connection) Thermostat "vindo RTD"

Article

Control range

Packing Article-No.

(12) **1012175**

(12) **1012176***

(10) 1013076

Hint



Thermostat "pinox D" (squeeze connection)

with liquid sensor

marking "pinox D" on lower side

Single-lever thermostat.

The thermostat can be fitted without adapter to the integrated distributors and thermostatic radiator valves of the company Danfoss, series

Design similar to that of single-lever taps.

Max. heating water temperature: 120 °C

without '0' setting

The thermostat "pinox D" has features which

are protected by patent.



Thermostat "vindo TD" (squeeze connection)

7-28 °C

with liquid sensor

chrome plated

white

white

The thermostat can be fitted without adapter to the integrated distributors and thermostatic radiator valves of the company Danfoss, series RA.

Temperature setting may be limited or locked by using the limiting elements. With setting device for visually handicapped persons.

Max. heating water temperature: 120 °C

with '0' setting

The thermostat "vindo TD" has features which are protected by patent.

Awards:

German Designer Club Good Design 08

Design Award of the Federal Republic of Germany Nominated



Thermostat "vindo RTD"

with liquid sensor for RTD valves of the company Danfoss

white (10) 1613066 The thermostat can be fitted without adapter to the thermostatic radiator valves with connection thread M 30 x 1.5 of the company Danfoss, series RTD.

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

Max. heating water temperature: 120 °C

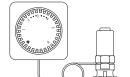
With '0' setting

The thermostat "vindo RTD" has features which are protected by patent.

2017 1.14 *New in catalogue 2017

oventrop

Packing Article-No. Control Article Hint range unit



Thermostat with remote control "Uni FD" (squeeze connection)

Max. heating water temperature: 120 °C

white

capillary 2 m long 7-28 °C 1012275 with '0' setting

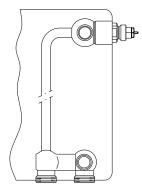
(10) 1616575

The thermostats "Uni XD", "Uni LD", "Uni FD", "vindo TD" and "pinox D" can be fitted without adapter to the radiators with integrated distributor of the following manufacturers:

- Hudevad - Agis - Ribe/Rio - Arbonia Brötje - Thor - Brugman - Vasco - Vogel & Noot - Buderus - De 'Longhi

(Subject to change without notice)

Example of an integrated distributor for one and two pipe heating systems. G $^{3}\!\!/_{\!\!4}$ male thread, distance between pipe centres 50 mm.



Fittings for the connection of these radiators to the pipework: pages 1.120-1.124 and 1.128-1.130.



white

Thermostat "Uni LDV" (squeeze connection) with liquid sensor

7-28 °C

These thermostats can be fitted without adapter to the thermostatic radiator valves with squeeze connection of the company Danfoss, series RAV (thermostat connection Ø 34 mm). Temperature setting may be limited or locked by using the concealed limiting elements. With setting device for visually handicapped people.

Marking of a set value by using the memo disk.

Max. heating water temperature: 120 °C

with '0' setting



Thermostat "Uni LDVL" (squeeze connection) with liquid sensor

These thermostats can be fitted without adapter to the thermostatic radiator valves with squeeze connection of the company Danfoss, series RAVL (thermostat connection Ø 26 mm).

Temperature setting may be limited or locked by using the concealed limiting elements. With setting device for visually handicapped

Marking of a set value by using the memo disk.

Max. heating water temperature: 120 °C

with '0' setting

white 7-28 °C (10) 1616675

Thermostat accessories: Pages 1.17, 10.10

1.a Thermostats Thermostat "Uni L" M 30 x 1.0 Special thermostats

	Article	Control range	Packino unit	⁹ Article-No.	Hint
	Thermostat "Uni L" M	30 x 1.0			For Oventrop valves manufactured until 1998. Award:
	with liquid sensor marking "Uni L" on low	er side			Thermostat "Uni L" Busse Design Ulm Longlife Design Award
) p. 6. o. £	white	7-28 °C	(10)	1011401	with '0' setting
	white, with remote sensor				
	capillary 2 m long	7-28 °C	(75)	1011651	with '0' setting
	Special thermostats with liquid sensor				Suitable for Kosmia thermostatic radiator valve bodies.
	Thermostat "Uni LK"	(M 28 x 1.0)			
	white	7-28 °C	(10)	1613501	with '0' setting
	Thermostat "Uni LA" ((M 28 x 1.5)			Suitable for Herz thermostatic radiator valve bodies.
douare of the second	white	7-28 °C 7-28 °C	(10)	1613401 1613465	with '0' setting without '0' setting
	Thermostat "Uni LI" (I	M 32 x 1.0)			Suitable for Ista thermostatic radiator valve bodies manufactured since 1985.
Gr, uses	white	7-28 °C	(10)	1616200	with '0' setting
	Thermostat "Uni LR"	(M 33 x 2.0)			Suitable for Rosswein thermostatic radiator valve bodies.
do 2 years	white	7-28 °C	(10)	1616301	with '0' setting
	Thermostat "Uni LM"	(M 38 x 1.5)	ı		Suitable for Meges thermostatic radiator valve bodies.
GO,JAMO	white	7-28 °C	(10)	1616100	with '0' setting
Fig. 1. 2. 1	Thermostat "Uni LO"	(M 38 x 1.5)			Suitable for Oreg (Ondal) thermostatic radiator valve bodies.
932,440	white	7-28 °C	(10)	1616500	with '0' setting
	Thermostat "Uni LV" (squeeze co	nnecti	ion)	Suitable for Vaillant thermostatic radiator valve bodies manufactured since 1981.
000000	white	7-28 °C	(10)	1616001	with '0' setting
7	Thermostat only for "i manufactured up to 1			ostatic radiator valves	The valves of this series are no longer produced.
Ostantia I	anthracite/white		(10)	1015500	

1.a Thermostats Accessories for thermostats

	Article	Packing Article-No.	Hint
	Accessories for thermostats		
The state of the s	Angle pattern adapter M 30 x 1.5/ M 30 x 1.5		Connection to the valve: M 30 x 1.5 Connection to the thermostat: M 30 x 1.5
	white anthracite model	(25) 1011450 (25) 1641451	Connection to the thermostat. Wi 30 x 1.5
	squeeze connection/squeeze c	onnection (10) 1011452	Connection to the valve: squeeze connection Connection to the thermostat: squeeze connection
OV OV	wine	(10) 1011402	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.
	Adapter, nickel plated for the conversion of connection	n thread	
	M 30 x 1.0 to M 30 x 1.5 M 32 x 1.0 to M 30 x 1.5	(10) 1011445 (50) 1661445	For Oventrop valves manufactured up to 1998. For Ista valves.
	"Uni-Clip" Graduated collar for "Uni XHM" and "Uni XD"	"Uni XH",	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
	right hand model, 50 pieces left hand model, 50 pieces	1011396 1011397	thermostats with '0' setting).
	Collar nut cover Set = 5 pieces		For the collar nuts of the thermostats "Uni XH", "Uni XHM", "Uni LH", "Uni LHZ", "Uni LA", "Uni SH", "vindo TH" and
	anthracite chrome plated gold plated stainless steel finish white	(10) 1011380 (10) 1011381 (10) 1011382 (10) 1011383 (10) 1011393	"pinox H".
	white		
	set = 5 pieces	(10) 1011493	"Uni L"
	Anti-threft ring for thermostats "Uni XH", "Uni "Uni L", "Uni LA" and "vindo Th	XHM", "Uni LH", "Uni LHZ", "Uni S H"	For the stabilisation and protection of the SH", thermostatic control head from theft.
	white set = 5 pieces	(10) 1011766	
	for thermostats "Uni XD", "Uni	LD" and "vindo TD"	For further information see "Technical information":
	set = 5 pieces	(10) 1011775	■ 50% ■ ※ 215 分 2 を 246 分 2 ■ 500 2 2 3

1.a Thermostats Manual heads

	Article	Packin unit	^g Article-No.	Hint
	Reinforcing cap white			The reinforcing caps are delivered with an Allen key.
dollnevo	for thermostats "Uni LH", "Uni LH2	Z" and	"Uni LA"	
	not lockable lockable		1011865 1011866	
	for thermostat "Uni L"			
	not lockable lockable	, ,	1011801 1011811	
	for thermostat "Uni LD"			
	not lockable	(10)	1011875	
	Reinforcing cap made of brass			
	connection thread M 30 x 1.5	(10)	1189381	
	Combined cap Open/Close with A	llen scr	ew	
	connection thread M 30 x 1.5	(5)	1627965	
	Tool for thermostats "Uni LH", "Ur "Uni LD", "Uni LDV", "Uni LDVL", "Uni L" and special thermostats	ni LHZ",	,	To release the graduation cap and clips.
ШШ	bag of 5 pieces	(10)	1989100	
	Setting key for thermostat "Uni LHB"		1011497	For nominal temperature setting at the thermostat.
	Universal tool			For setting of the nominal temperature value at
	for thermostat "Uni LHB", "Uni LH" and thermostatic valves for thermostats "Uni LHB", "Uni LH" and thermostatic valves	"AV 9" (50)	1011489 and "AQ" 1011496°	the thermostat "Uni LHB", presetting at the valve as well as releasing of the graduation cap of the thermostats "Uni LH", "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".
	Extensions			
4	L = 20 mm for thermostatic valves	(10)	1022698	For "Unibox T", "Unibox plus", "Unibox TQ" and "Unibox Q plus".
(TITTITIA)	Cover for all remote sensors			
	Set = 5 pieces	(10)	1011698	
	Manual heads white			The manual head allows the subsequent conversion to actuators or thermostats without
(11111111111111111111111111111111111111	connection thread M 30 x 1.5	(10)	1012565	the necessity to drain the system.
	connection squeeze connection	(10)	1012575	

Page

1

OVENTROP Room temperature and climate control / Hydronic balancing at the radiator

oventrop (a) (b) (c) (c) (c)

1.b Room thermostats

Content

Room thermostats (heating)	1.20
Room thermostats (heating/cooling)	1.21
Room thermostats (heating/cooling) with fan drive	1.22

1.b Room thermostats Room thermostats (heating)

Packing Article-No. Article Hint Room thermostats (heating) Room thermostat-clock - surface mounting (heating) The electric room thermostat-clock is required Heating two point control for individual room temperature control of heating systems in combination with the with daily setting electrothermal actuators (two point) "Aktor T 2P". Output signal pulse-width 230 V modulation. (78) **1152551** Temperature range: 5 °C up to 30 °C Heating: with weekly setting Use electrothermal actuators (two point) 230 V (78) **1152552** "closed with current off". Central temperature setback is carried out 24 V 1152554 according to a timed programme. Limitation of the control range by using the concealed limiting elements. Room thermostat - surface mounting (heating) The electric thermostat is used for individual Heating two point control room temperature control in combination with the electrothermal actuators (two point) "Aktor T 2P". 230 V (25) 1152051 Temperature range: 5 °C up to 30 °C 24 V (25) 1152052 Heating: Use electrothermal actuators (two point) "closed with current off". As for item no. 1152051/52/55/71/72, temperature may be set (25)1152055 back by use of an external time switch (item with concealed temperature setting no. 1152551/52 for 230 V, item no. 1152554 for 24 V). Cooling: Use electrothermal actuators (two point) "open with current off". Limitation of the control range of item no. 1152051/52/71/72 by using the concealed limiting elements. Room thermostat - flush mounting (heating) Heating two point control 230 V (128) 1152071 24 V (128) 1152072

Room thermostat - flush mounting (heating) with display

Heating two point control

6 | # | 6 | A | V |

230 V (40) **1152561** 24 V (40)1152562 With LCD display and adjustable timed programme.

Temperature range: 5 °C up to 35 °C

Operating current range (item no. 1152561): 100 up to 230 V AC

Heating:

Use electrothermal actuators (two point) "closed with current off" (terminal "NC") or "open with current off" (terminal "NO").

oventrop

Room temperature and climate control / Hydronic balancing at the radiator

> Packing Article-No. Article Hint unit

Room thermostats (heating/cooling)

Room thermostat - surface mounting (heating and cooling)

Heating 0 - 10 V control Cooling 0 - 10 V control

Cooling two point control

24 V (25) 1152151

The room thermostat is used for individual room temperature control in combination with the electrothermal actuator (0- 10 V) "Aktor T ST L NC", item no. 1012953, page 1.27, or the electromotive actuator "Aktor M ST L", item no. 1012705/06, page 1.28 (may also be used in three- or four-pipe systems). With one analogue output 0-10 V each for heating and cooling as well as adjustable neutral zone (0.5-7.5 K). Temperature range: 5 °C up to 30 °C For further information see "Technical information":





Room thermostat - surface mounting (heating or cooling) Heating two point control

230 V 1152063°

Room thermostat for individual room temperature control. Adjustment of the nominal temperature value, absence or presence. Entry for operating mode changeover from heating or cooling (change-over).

Article

Packing Article-No.

Hint

Room thermostats (heating/cooling) with fan drive



Room thermostat - surface mounting (heating and cooling)

Heating 0 - 10 V control Cooling 0 - 10 V control with fan drive

24 V

(25) 1152153

The room thermostat does not only feature analogue outlets 0-10 V for heating and cooling, but also a 3-stage ventilator switch (24 V - 240 V) for the activation of fan convectors (fan coil units).

The room thermostat is used for individual room temperature control in combination with the electrothermal actuator (0-10 V) "Aktor T ST L NC", item no. 1012953, page 1.27 or the electromotive actuator "Aktor M ST L", item no. 1012705/06, page 1.00 (may also be used in three- or four-pipe systems).

Temperature range: 5 °C up to 30 °C

Room thermostat - surface mounting (heating or cooling)

Heating two point control Cooling two point control with fan drive



230 V 1152351

The room thermostat is used for heating or cooling in combination with electrothermal actuators (two point) "Aktor T 2P" and fan convectors (fan coil units).

The room temperature is maintained at the chosen level. With switch for "Heating-Off-Cooling" and fan switch.

Temperature range: 5 °C up to 30 °C

Heating/cooling:

Use electrothermal actuators (two point) "closed with current off".

For further information see "Technical information":



Room thermostat - surface mounting (heating or cooling) with display

Heating two point control Cooling two point control with fan drive



230 V 1152451 24 V 1152452° With LCD display and adjustable timed programme.

Temperature range: 5 °C up to 35 °C Heating or cooling: Use electrothermal actuators (two point) closed with current "off". For further information see "Technical information":



Electronic room thermostat with digital display for ventilation systems with heating and cooling function.

Room thermostat - surface mounting (heating and cooling) with display

with display
Heating two point control
Cooling 0 - 10 V control
with fan drive

24 V 1152065

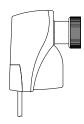
Room thermostat - surface mounting (heating or cooling)

with display Heating or cooling 0 - 10 V control with fan drive

24 V **1152064**

1

Page



1.c Actuators

Content	
Combination possibilities of valves and actuators	1.24
"Aktor T" Electrothermal actuators	1.26
"Aktor M" Electromotive actuators	1.28
"Aktor M ST EIB" Electromotive actuators	1.29
"Aktor M ST LON®" Electromotive actuators	1.29
"Aktor MH CON B" (ENOCEAN) Wireless actuator	1.29

															l .		1	2	3
(1	Can also be connect	cted	l to	valv	es w	vith o	diffe	ren	t cc	onne	ectio	ons				Illustration			
	using Oventrop valv	e a	dap	ters	(for	inst	anc	e c	om	oan	y Da	anfo	oss,			(examples)			
	series RA)																		
~	GValid for sum resu		_												Rat Val	ngs re	"AV 9, RFV 9, CV 9"	"A, RF"	"AF"
~	Iln combination with						,		no	. 10	226	98			Art	-Nr.	1183, 1185, 1162	1180	
4						valv	e lii	t							DN		10 15 20 25	10 15 20 25 32	10 15 20
(5	k _{vs} -Wert kann vermi Standard values without c					96										sing dimension x [mm] ver lift position of valve)	11.8	11.8	11.8
	With due consideration of	the v	valve	para	meter	s,					#		E		Re	commended max. differen-	0.2	0.2	0.2
	the combination with actu is possible on consultation		S OT O	tner r	manui	ractur	ers		,	q	4	<u> </u>		×	_	pressure in operation [bar] ve lift h [mm]	2.2	2.9	1.6
									\perp		_		1	1		Upper lift position [mm]	14.0 or higher	14.7 or higher	13.4 or higher
									E	_	+	_	7		Demands on actuators	Lower lift position [mm]	11.3 or lower	11.3 or lower	11.3 or lower
															Dema	Closing press. [N] min/max.	90 / 150	90 / 150	90 / 150
П	Ratings		Charact		arameter		Έ	E					lg D	notis		Valve characteristic line		1	
	actuators			aut	Operating behaviour (control signal of the control let)		Lower lift position [mm]	Upper lift position [mm]	mm]	er [N]	Medium floating time		Max. fluid temperature [°C]	Permissible installation position			rate	9 9	ate
				d curr	ig beha		ft posit	t posit	troke [i	d pow	floatir	E	d tempe	e install			Howr	Flow rate	How I
	Illustration	Item. no	Model	Operating current	Deratin	Interface	wer lif	oper lif	Piston stroke [mm]	Operating power [N]	edium	Protection	ax. fluic	missib		uator racteristic line	Effective piston stroke	Effective piston stroke	Effective piston stroke
H		=	JL.		0.5	드	ב	'n	Ы	ō	Σ	Æ	M	22	GHA	L	Encoure placer outlie		
	0	24	hermal,	230 \	jii	ital	ci	ω,		90	~5 min	54	00			n stroke			
A		10124	electrothermal, closed with current "o	24 V / 230 V	2 point	digital	11.2	15.8	'	> 90	~5	IP54	+100			Piston	•	_	•
Н	"Aktor T 2P L NC"/"Aktor T 2P H NC"		8												_	0 Drive			
	0	4.	electrothermal, open with current "off"	24 V / 230 V	#			~		_	<u>.</u>	_	0	gi		stroke			
В		10124	ctrothe	٧/2	2 point	digital	11.2	15.8	'	> 90	~5 min	IP54	+100	beliebig		Piston s	•	•	•
	"Aktor T 2P L NO"/"Aktor T 2P H NO"															o Drive			
		3	electrothermal, sed with current "off"		steady (0-10 V)	<u>e</u>					Ē					stroke			
С	\sqcup	1012953	electrothermal,	24 V	y (0	analogue	11.2	15.8	4.0	06 <	-40 s/mm	IP54	+100			Piston str	•	•	•
	"Aktor T ST L NC"	10	elect dosed w		stead	an					-4₁		Ċ			Drive	4	4	4
П			_ e								_								
D	h/\f_	1012705	ulating	24 V	0-10	analogue	11.2	15.8	0.5 - 4.0	> 90	~15 s/mm	IP 40	+100			on stroke			•
	T .	101	modulating electromotive	5	steady (0-10 V)	ana	-	-	0.5	^	~15	_	+			Piston			
H	"Aktor M ST L"		-								Н					O Drive			
	[902	edpa	>	10-1	ane	2	ω,	4.0	06	mu,	0	0			stroke	_	_	_
E		1012706	mod. electromotive, with position feedback	24 V	steady (0-10 V)	analogue	11.2	15.8	0.5 - 4.0	^	~15 s/mm	IP40	+100			Piston	•	•	•
Н	"Aktor M ST L"		-								Ĺ					Drive			
	/ [17	electromotive with emergency function		steady (0-10 V)	en		_								stroke			
F		1012717	romoting gency 1	24 V	9 (o	analogue	11.2	15.8	4.0	> 90		IP 40				Piston s	•	•	•
	U "Aktor M ST L NC"	٢	elect		stea	a										Drive	4	4	4
		8	tive								Ē					stroke			
G		1012708	elektromotive	24 V	3 point	digital	11.2	15.8		^ 80	~15 s/mm	IP40	+100			Piston str	•	•	•
	"Aktor M 3P L"	10	elekt		ω						-1£		ļ .			Drive	4	4	4
П			e e								_			8					
н	h/\f_	1012709	omoti	230 V	3 point	digital	11.2	15.8	,	> 90	~15 s/mm	IP40	+100	puac		Piston strok			•
	T	101	elektromotiv	1%	8	ō	-	-		^	~15	=	+	t sus		t	4	4	4
H	"Aktor M 3P H"	_		<u> </u>			H				Н		\vdash	In vertical to horizontal position, not suspended	-	90 Drive	†	1	<u> </u>
		10/11	electromotive, open with current "off"	230 V/24 V	int	ital	2	0		06	s	54	00	ositio		n stroke			
		1012710/11	electror	230 V,	2 point	digital	11.2	17.0	'	^	~3 s	IP54	+100	ntal p		Piston	_	_	•
Н	"Aktor M 2P H"/"Aktor M 2P L"		uado L	-							Н			orizo	_	Drive !			
	4 1	1012715/16	electromotive with emergency function	24 V	ŧ	-m	<u></u>	~						al to h		stroke			
J		1271	romoti gency 1	230 V/24 V	2 point	digital	11.2	15.8	'	> 90		IP40		ertica		Piston stroke	•	•	•
Ш	"Aktor M 2P H/L NC"	10	eleci	123	Ĺ									<u>-</u>		0 Drive			
$ \uparrow$						×			0		Ē					8			
к		11560	electromotive, system "EIB / KNX"	24 V	steady	EIB / KNX	11.2	15.2	2.6 - 4.0	> 90	~30 s/mm	IP44	+100			Piston stroke	•	•	•
	"Aktor M ST EIB"	-	elec system		8	H			2.		,3					Drive			
H	AKION WIST EIB			_															
L	l H	1157065	motive "LON	nom. 48 V	steady	NO	11.2	15.2	2.6 - 4.0	> 90	~30 s/mm	IP44	+100			an stroke			
-		115	electromotive, system "LON"	nom	ste	ت	-	-	2.6	^	~30	"	+			Piston			
H	"Aktor M ST LON"				8	_					\vdash				-	Drive			
		992	notive	(2x)	Steady (Controller integrated)	EnOcean (OV wireless)		4		80	E	0	0			Piston stroke			
M		1150665	elektromotive	Mignon (2x)	stea troller in	N wir	11.0	15.4	2	^	~3 s/mm	IP20	06+			Pistor	•	•	•
Ц	"Aktor M CON B"		ě	2		0					Щ					Drive		5	
		92	otive	(2x)	Steady (Controller integrated)	(EEP A5-20-01)					_E					10ke			
N		1150765	elektromotive	Mignon (2x)	stead	nOce A5-2	11.0	15.4	2	> 80	~3 s/mm	IP20	06+			Piston stroke	•	•	•
	"Aktor MH CON B" (ENOCEAN)	_	elek	Ž	(Contro						1					Drive		5	

4	5	6	7	8	9	10	11	12	13	14
					"Multiblock T-RTL"	"Multiblock TQ-RTL"		Three-way	Valve inserts for radiators	Valve inserts "GHQ" for radiators
"AZ V"	"AZ H"	"AQ"	"E"	"EQ"	"Multiblock T/TU/TFU"	"Multiblock TQ"	Valves with insertion tube	conversion valves	with integrated distributor	with integrated distributor
1187 15 20 25	11884 20 25	1183 10 15 20	1163 15	1163 15	11840 15	11840 15	11835/16435 15	11805 15 20	10180	101908.
11.8	11.8		11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
11.0	11.0	11.8	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
5	0.2	0.6 (1.5)	0.2	0.6 (1.5)	0.2	0.6 (1.5)	0.2	0.2	0.2	0.6 (1.5)
3.0	3.2	1.6	2.2	1.6	2.2	1.6	2.9	1.6	2.2	1.6
14.8 or higher 11.3 or lower	15.0 or higher 11.3 or lower	13.4 or higher 11.3 or lower	14.0 or higher 11.3 or lower	13.4 or higher 11.3 or lower	14.0 or higher 11.3 or lower	13.4 or higher 11.3 or lower	14.7 or higher 11.3 or lower	13.4 or higher 11.3 or lower	14.0 or higher 11.3 or lower	13.4 or higher 11.3 or lower
90 / 150	90 / 150	90 / 150	90 / 150	90 / 150	90 / 150	90 / 150	90 / 150	90 / 150	90 / 150	90 / 150
Effective piston stroke	2 3 3 Effective piston stroke	Effective piston stroke	Effective piston stroke							
•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•
4	• 4	• 4	•	• 4	•	• 4	•	• 4	4	•
4	4	4	4	4	4	4	4	4	4	•
4	4	4	•	4	•	4	•	•	4	•
•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•
		•	•	•	•	•	• (5)	•	•	•
		•	•	•	•	•	• 5	•	•	•

2017 1.25

Article Article-No. Hint

"Aktor T" Electrothermal actuators



"Aktor T 2P" Electrothermal actuators (two point) connection thread M 30 x 1.5

1012415 1012425
1012416 1012426 1012435
1012442
1012452
1012455
1012459
1012420
10

Oventrop electrothermal actuators are used for heating, ventilation and air conditioning. The actuators serve to control the room temperature and can be used e. g. with conventional radiators, radiators with integrated distributor, distributors/collectors for surface heating, radiant ceiling panels, chilled ceiling systems and induction air systems in combination with two point room thermostats. Further applications in bivalent heating installations.

For zone and room temperature control.

Connecting cable 1 m. With "First-Open" function (except for actuators "open with current off") and stroke index.

Simple plug-in connection with valve adapter.

Actuators can be installed in any position.

As for the model with auxiliary switch, a pump can for instance be switched via the integrated volt free contact.

Due to their construction, the electrothermal actuators are secured against overvoltage which could occur when switching on neon tubes. A varistor is thus not necessary.

NRTL approval according to **UL-specification.** May only be installed in approved countries outside the EU.

These actuators can be fitted without adapter to the integrated distributors and thermostatic radiator valves with squeeze connection of the company Danfoss, series RA.

Connecting cable 1 m. With "First-Open" function and stroke index. Simple plug-in connection with valve adapter.

Actuators can be installed in any position.

Due to their construction, the electrothermal actuators are secured against overvoltage which could occur when switching on neon tubes. A varistor is thus not necessary.

2017

For further information see "Technical information":





"Aktor T 2P" Electrothermal actuators (two point) squeeze connection

"H NC", closed with current "off", 230 V "L NC", closed with current "off", 24 V 1012419

Combination possibilities of valves and actuators: Page 3.08

Article	Packing Article-No. unit	Hint			
"Aktor T ST" Electrothermal a Proportional actuator connection thread M 30 x 1.5	ectuator (0-10 V)	The actuator (0-10 V) can be used in centralised building control systems in combination with the electronic room			
"L NC", closed with current "off with automatic recognition of ne		thermostat, item no. 1152151/1152153, or with a central controller. Plug-in connecting cable 1 m. With "First-Open" function and stroke index. Easy plug-in connection with valve adapter. Due to their construction, the electrothermal actuators are secured against overvoltage which could occur when switching on neon tubes. A varistor is thus not necessary.			
Accessories electrothermal ac	ctuators				
For electrothermal actuators, 1012415/25/16/26/35/42/52/55					
Valve adapter		Replacement valve adapter for electrothermal actuators.			
connection thread M 30 x 1.5	(5) 1012461	actuators.			
high model connection thread M 30 x 1.5	(5) 1012462	The high model is required when using the actuators, item no. 10124 and 1012953, in combination with the regulating valves "Hycocon ETZ/HTZ" as well as the fittings "Multiblock T/TU/TFU/TQ" and the design cover (11 mm higher than standard).			
connection thread M 30 x 1.0	(5) 1012890	The adapter is required for Oventrop valves with connection thread M 30 x 1.0 (up to 1998) in combination with the electrothermal actuators.			
Reinforcing cap		To protect electrothermal actuators against			
for electrothermal actuators (two point) and (0-10 V)	1012450	vandalism. The special valve adapter with connection thread M 30 x 1.5 for fixing of the reinforcing cap is included.			

|--|

Article Article-No. Hint

1012705

1012708

1012709

"Aktor M" Electromotive actuators

"Aktor M" Electromotive actuators

connection thread M 30 x 1.5 with manual setting, adjustable mode of operation

"ST L", 24 V, modulating proportional actuator, 0-10 V, automatic anti-blocking function and recognition of neutral point, multiple characteristic lines adjustable

"ST L", 24 V, modulating proportional actuator, 0-10 V, with position feedback, automatic anti-blocking function and recognition of neutral point, mutiple characterstic lines adjustable

"3P L", 24 V, three point actuator, without anti-blocking function

"3P H", 230 V, three point actuator, without anti-blocking function, mode of operation not adjustable

"ST L NC", 24 V 1012717 modulating proportional actuator, 0 - 10 V, with electric emergency function and automatic recognition of neutral point

Oventrop electromotive actuators are used for heating, ventilation and air conditioning. The actuators serve to control the room temperature and can be used e. g. with conventional radiators, radiators with integrated distributor, distributors/collectors for surface heating (except for item no. 1012710/11), radiant ceiling panels, chilled ceiling systems and induction air systems. Further application in bivalent heating installations.

The actuators (0-10 V) can be used in centralised building control systems in combination with the electronic room thermostat, item no. 1152151/53, or with a central controller.

Anti-blocking function: The actuator opens and closes the valve completely once every 24 hours. Connecting cable 1.5 m.

With the appropriate control, the actuator, item no. 1012708, can also be used for two point operation.

In case of electric emergeny function, the actuator returns to zero position if the power supply is interrupted.

In case of emergency function, the actuator

returns to zero position if the power supply is



"2P H", 230 V, two point actuator, without anti-blocking function

1012710

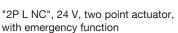
1012711

"2P L", 24 V, two point actuator, without anti-blocking function

with emergency function

Short operating time (about 3 sec.). Connecting cable 1.5 m.

1012715



"2P H NC", 230 V, two point actuator,

interrupted.
Connecting cable 1.5 m.

or, **1012716**



oventrop

Room temperature and climate control / Hydronic balancing at the radiator

Article Article-No. Hint



"Aktor M ST EIB" Electromotive actuators System "KNX/EIB"

with integrated bus coupling

"Uni EIB H"

connection thread M 30 x 1.5

with one binary entry 1156065 with two binary entries 1156066

"Uni EIB D"

with adapter for squeeze connection

with one binary entry 1156075 with two binary entries 1156076

"Aktor M ST LON®" Electromotive actuators System "LON®"

"OVLONH"

connection thread M 30 x 1.5

with one binary entry 1157065

"OVLOND"

with adapter for squeeze connection

with one binary entry 1157075

Product data bank "KNX/EIB" and application programmes "LON" 1156051

"Aktor MH CON B" (ENOCEAN) Wireless actuator



connection thread M 30 x 1.5 1150765 Electronic actuator with bi-directional wireless communication, battery operated

traffic white (RAL 9016)

Only functions in combination with communication centres/gateways and room thermostats using the EEP (EnOcean Equipment Profile) A5-20-01.

System	Oventrop actuators	Item no.	The Oventrop actuators can e.g. be used with the following bus systems:
KNX/EIB	"Uni EIB H" with one binary entry with two binary entries "Uni EIB D" with one binary entry with two binary entries	1156065 1156066 1156075 1156076	- GIRA Instabus KNX/EIB - ABB i-bus KNX - Busch-Jäger installation bus - Jung KNX-System - Merten KNX - Siemens GAMMA instabus - Woertz Building Control Systems - and others
LON	"OVLONH" with one binary entry "OVLOND" with one binary entry	1157065 1157075	- Gesytec - SVEA Building Control Systems - Echelon - ELKA Electronics - Kieback & Peter - t.a.c. TAC Vista - Regulex - and others
EnOcean (wireless)	"Aktor MH CON B" (ENOCEAN) with wireless module	1150765	- iEXERGY (wibutler) - and others

The electromotive actuator "KNX/EIB" is suitable for a direct connection to the European installation bus control system. The power absorption is extremely low, so that a separate power supply is not needed. The actuator is equipped with one or two integrated binary entries to which a window contact and a movement sensor may for instance be connected.

The connection of the bus and the binary entry is made via a 4- or 6-core cable (1 m).

The electromotive actuator "LON" is suitable for the direct connection to LonWorks® networks.

The power absorption is extremely low, so that a separate power supply is not needed when using the Link-Power-Technology.

The actuator is equipped with an integrated binary entry to which a window contact may for instance be connected.

The connection of the bus and the binary entry is made via a 4-core cable (1 m).

The data to be read in the ETS data bank or the LonTalk®-Software can be downloaded from the internet under www.oventrop.de (category "Software") free of charge.

Electronic actuator for room temperature control. The actuator supports the EnOcean profile A5-20-01 and can be connected to communication centres/gateways or room thermostats of other manufacturers.



The actuator is not compatible with the gateway "Synet CR" and the wireless thermostats "R-Tronic".

Combination possibilities of valves and actuators: Page 3.08

1





1.d "i-Tronic" Climate display device Content

"i-Tronic TFC" 1.32

oventrop

Room temperature and climate control / Hydronic balancing at the radiator

Article Article-No. Hint

"i-Tronic TFC"

Climate meter displaying the temperature, humidty and CO₂ content in the ambient air traffic white (RAL 9016)



for wall attachment with power pack for flush sockets (power supply 100-240 V ~/ 50-60 Hz) with wall bracket

1150683

Climate meter for monitoring the important room climate variables: temperature, humidity and CO₂ content. These values will supply information on the beginning and end of a necessary room airing (e.g. window opening). Furthermore, the min./max. values of the last 24 hours are displayed.

The climate meter can not only be fixed onto the wall with the help of a wall bracket and a flush-mounted power pack but it is also suitable for mobile use.

Two table stand solutions are offered for mobile use: One with a power pack for mains power supply and another with two rechargeable batteries with integrated charging electronics.



for mobile use with wired power supply, table stand and mains adaptor (power supply: 100-240 V ~/ 50-60 Hz) 1150685



for mobile use 1150688 with rechargeable batteries, integrated charging electronics in the table stand and power pack for battery charging

Two integrated rechargeable batteries (2 x AA NiMH) allow for the mobile monitoring of the important room climate variables temperature, humidity and CO₂ content.

Operation of rechargeable batteries: approx. 6 days



Page



1.e "R-Tronic" Climate display device/control "Synet CR" Gateway and hydronic balancing

Content

"R-Tronic RT B" Wireless thermostat	1.34
"R-Tronic RTF B" Wireless thermostat with humidity display	1.35
"R-Tronic RTFC K" Wireless thermostat with humidity and CO ₂ display	1.35
"Aktor MH CON B" Wireless actuator (M 30 x 1.5)	1.36
"Aktor MD CON B" Wireless actuator (squeeze connection)	1.36
Accessories	1.37
"FK-C F" Wireless window contact	1.37
"RP-S F" Wireless repeater	1.37
"R-Con 2P" Wireless receiver (1 channel)	1.37
Automatic presetting with "Synet CR" and automatic hydronic balancing with "Q-Tech"	1.38
"Synet CR" Gateway	1.38

"R-Tronic" Climate display device/control

The system "R-Tronic" consists of a battery operated actuator for wireless thermostats "Aktor MH/MD CON B" and the wireless thermostat "R-Tronic". The wireless thermostat can be battery or mains operated. During battery operation, a maximum of three actuators "Aktor MH/MD CON B" can be connected to one "R-Tronic" and up to 8 actuators during mains operation.

During mains operation, window contacts and the one channel wireless receiver "R-Con 2P" can be connected additionally. The wireless receiver transmits a switching signal depending on a CO2 threshold for one fan.

Up to 16 wireless thermostats can be connected to the gateway "Synet CR" for mobile quick access via Internet.

Option 1: "R-Tronic RT B"

Wireless thermostat for room temperature control with timer functions (battery operated, flush-mounted power pack or mains adaptor available as accessories)

"R-Tronic RTF B" Option 2:

As option 1, but with integrated humidity sensor and display of the relative humidity RH in % (battery operated, flush-mounted power pack or mains adaptor available as accessories)

Option 3: "R-Tronic RTFC K"

As option 2, but with additional sensor for measurement of the CO₂ content and display of the CO₂ concentration in ppm (no battery operation, power supply via external flush-mounted power pack or mains adaptor).

"R-Tronic RTFC K" with "R-Con 2P" Option 4:

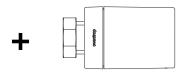
As option 3, but additionally with one channel wireless receiver "R-Con 2P" for the activation of a fan depending on a CO₂ threshold for fresh air supply.

Options

1.

2.

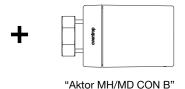




"Aktor MH/MD CON B"

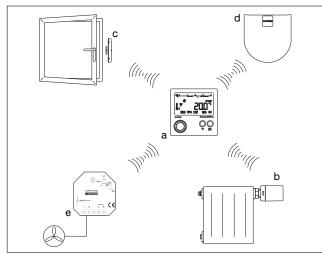
"R-Tronic RT B"





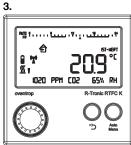
"R-Tronic RTF B"

System illustrations



Options 1, 2, 3, 4 (climate display device/control)

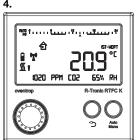
- "R-Tronic RT B / RTF B / RTFC K" Wireless thermostat
- "Aktor MH/MD CON B" Actuator for wireless thermostats
- "FK-C F" Wireless window contact
- "Synet CR" Gateway
- "R-Con 2P" Wireless receiver (1 channel) for CO2 dependent fan activation (only in combination with "R-Tronic RTFC K")



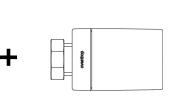




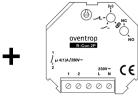
"R-Tronic RTFC K"







"Aktor MH/MD CON B"



"R-Con 2P

oventrop

Article Article-No. Hint



"R-Tronic RT B" Wireless thermostat

Room temperature and climate

control / Hydronic balancing at

Wireless thermostat with bi-directional wireless communication, battery operated, surface mounting

traffic white (RAL 9016)

the radiator

1150680° 1150880#

Electronic wireless thermostat "R-Tronic RT B" for room temperature control according to adjustable timed programmes. The nominal and actual temperature of the room can be displayed.

Up to 3 participants (such as actuators for wireless thermostats "Aktor MH/MD CON B" and wireless receivers "R-Con") can be connected during battery operation . A supply via the network is an alternative, see accessories page 1.37. During mains operation, the number of participants can be increased to 8 which allows, for instance, for an integration of window contacts for room temperature setback.

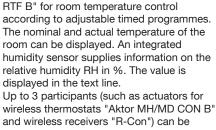


"R-Tronic RTF B" Wireless thermostat with humidity display

Wireless thermostat with bi-directional wireless communication and integrated humidity sensor, battery operated. surface mounting

traffic white (RAL 9016)

1150681° 1150881#



Electronic wireless thermostat "R-Tronic

connected during battery operation. A supply via the network is an alternative, see accessories page 1.37. During mains operation, the number of participants can be increased to 8 which allows, for instance, for an integration

of window contacts for room temperature setback.



"R-Tronic RTFC K" Wireless thermostat with humidity and CO₂ display

Wireless thermostat with bi-directional wireless communication and integrated humidity and CO2 sensor

traffic white (RAL 9016)

Power supply:

Flush-mounted power pack (100-240 V ~/ 50-60 Hz) with wall bracket

> 1150682° 1150882#

Power supply: Mains adaptor (100-240 V ~/ 50-60 Hz) with table stand

> 1150684° 1150884#

Electronic wireless thermostat "R-Tronic RTFC K" for room temperature control according to adjustable timed programmes. The nominal and actual temperature of the room can be displayed. An integrated humidity sensor supplies information on the relative humidity RH in % and an integrated CO₂ sensor on the CO₂ content in ppm in the room air. Both values are displayed in the text line. If preset limits are exceeded, a symbol asking for fresh air supply is displayed. Up to 8 participants (such as actuators for wireless thermostats "Aktor MH/MD CON B". wireless receivers "R-Con" and wireless window contacts for room temperature setback) can be connected to the "R-Tronic RTFC K". Power is supplied by a flush-mounted power

pack or a mains adaptor with table stand.

Compatible with the gateway "Synet CR"

1.e "R-Tronic" Climate display device/control "Synet CR" Gateway and hydronic balancing

Article Hint Article-No.



"Aktor MH CON B" Wireless actuator (M 30 x 1.5)

Connection thread M 30 x 1.5 Electronic actuator for wireless thermostats with bi-directional wireless communication, battery operated

traffic white (RAL 9016)

Only functions in combination with the wireless thermostats "R-Tronic RT B/ RTF B/ RTFC K".

1150665

Electronic actuator for wireless thermostats for room temperature control according to adjustable timed programmes at the wireless thermostats "R-Tronic RT B/ RTF B/ RTFC K". Heating operation and the positon of the valve (OPEN/CLOSED) of the "Aktor MH/MD CON B" are shown on the display of the wireless thermostat.

Operation via the menu-driven wireless thermostat.

Awards:



ICONIC AWARDS 2016



German Design Award 2016



"Aktor MD CON B" Wireless actuator (squeeze connection)

Squeeze connection Electronic actuator for wireless thermostats with bi-directional radio communication, battery operated

traffic white (RAL 9016)

Only functions in combination with the wireless thermostats "R-Tronic RT B/ RTF B/ RTFC K".

1150675

These actuators for wireless thermostats can be fitted without adapter to the integrated distributors and thermostatic radiator valves with squeeze connection of the company Danfoss, series RA.

1.e "R-Tronic" Climate display device/control "Synet CR" Gateway and hydronic balancing Accessories

	Article	Article-No.	Hint
	Accessories Flush-mounted power pack (100-240 V ~ /50-60 Hz) with wall bracket	1150692	For the conversion of battery operated wireless thermsotats "R-Tronic RT B/ RTF B" to an external power supply (100-240 V ~/ 50-60 Hz).
	Mains adaptor (100-240 V ~/ 50-60 Hz) with table stand, white for stationary use, suitable for "i-Tronic TFC" and "R-Tronic RT B/RTF B"	1150694	
	"FK-C F" Wireless window contact solar powered, white (similar to RAL 9003)	1153070	A radio signal is transmitted when opening or closing the window. The solar powered energy storage ensures a maintenance-free operation. Compatible with: -"R-Tronic" Wireless thermostats ("DynaTemp HA") -Wireless room modules ("DynaTemp BA") Note: The wireless thermostats "R-Tronic" require the software version 01-06-02 or higher and have to be mains-operated.
	"RP-S F" Wireless repeater for installation into an earthed plug white (similar to RAL 9003)	1150699	The wireless repeater "RP-S F" serves to amplify the signal between the wireless thermostat "R-Tronic" and the communication centre "Synet CR" as well as the wireless receiver "R-Con"/"R-Con 2P".
oventrop very control very cont	"R-Con 2P" Wireless receiver (1 channel 230 V, flush mounting, cabling on site Switching output (volt free): "NC" closed with current "off" "NO" open with current "off"	el) 1150710*	For activation and deactivation of fans and ventilation systems. The switching signal is generated by the wireless thermostat "R-Tronic RTFC K" if a set CO ₂ value is exceeded or undercut. Two rotary switches at the "R-Con 2P" allow for 1. the configuration of the switching output "NC" closed with current "off" "NO" open with current "off" 2. a manual setting of the switching output to AUTO, ON, OFF or TEACH IN. Maximum switching capacity of the volt free output: 4(1)A/ 250 V AC

1.37 2017 *New in catalogue 2017

1.e "R-Tronic" Climate display device/control
"Synet CR" Gateway and hydronic balancing
Automatic presetting with "Synet CR"
and automatic hydronic balancing with "Q-Tech"

Hydronic balancing with "Synet CR" and valves with "Q-Tech" in detached and semi-detached houses

Automatic presetting with "Synet CR":

Automatic presetting of thermostatic radiator valves, for instance in detached or semi-detached houses, can be carried out via a smartphone or tablet with the help of the gateway "Synet CR" and the actuators for wireless thermostats "Aktor MH CON B". Manual presetting at each radiator on the spot is thus not required.

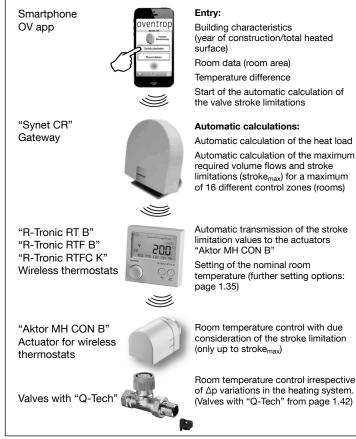
Apart from room temperature control, the gateway "Synet CR" allows for the calculation of the maximum required volume flow for each radiator. The gateway "Synet CR" is preloaded with the calculation procedure (procedure according to "VdZ specialist rules for heating optimisation – procedure A").

The valve characteristic line of the thermostatic valves with "Q-Tech" which allows for the conversion of the detected volume flows for the stroke limitation of the actuators "Aktor MH CON B" is integrated in the gateway "Synet CR".

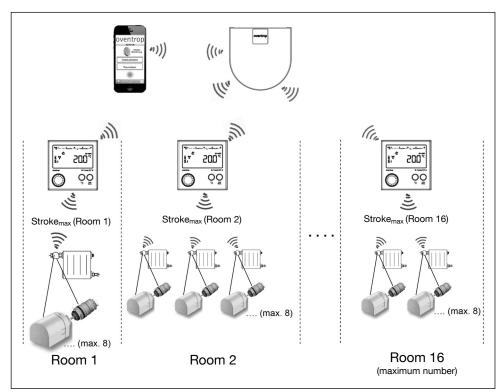
The user may carry out automatic presetting within a few steps via a smartphone or tablet with the help of the setup assistant of the OV app.

Automatic balancing with "Q-Tech":

Irrespective of differential pressure variations in the heating system, the radiator volume flow required for room temperature control is constantly maintained by the control and regulating valve with "Q-Tech". After having carried out the automatic presetting described above, the volume flow is limited to a maximum value by the gateway "Synet CR" and the actuator "Aktor MH CON B" mounted onto the thermostatic valve with "Q-Tech".



Sequence of automatic presetting and balancing with "Synet CR" and valves with "Q-Tech"



System illustration (example): Hydronic balancing with "Synet CR" and valves with "Q-Tech"

Advantages:

- Automatic calculation of the required volume flow for each radiator and automatic presetting of the thermostatic valves with "Q-Tech" via the actuator "Aktor MH CON B"
- Manual setting of the thermostatic valves at the radiator is not required
- Pipework calculation and regulation of the risers are not required
- Presetting of the valves in the riser is not required
- Hydronically balanced heating system during full and low demand periods
- Long battery life span as the "Aktor MH CON B" only carries out control commands for room temperature control

1.e "R-Tronic" Climate display device/control "Synet CR" Gateway and hydronic balancing

Article Article-No. Hint



"Synet CR" Gateway

Centre for the connection of up to 16 "R-Tronic" climate display devices/controls and for regulation in combination with "Q-Tech" valves

In preparation.

1150687

Centre for the simple networking, visualization and parameterization of "R-Tronic" climate display devices/contols.

Up to 16 wireless thermostats or rooms can be managed by the centre by transmitting adjustable timed programmes for the individual rooms from the centre to the "R-Tronic" via the bi-directional radio communication.

Furthermore, automatic hydronic balancing is supported in combination with the "Q-Tech" valves (see page 1.42). For this purpose, the heat load, the maximum required volume flows for each radiator as well as the required maximum stroke limitations at the actuators "Aktor MH CON B" are calculated by the gateway "Synet CR" after having entered the building and room data. The stroke limitations at the "Q-Tech" valves are carried out automatically.

Access options:

- -Local access in the building
- -Worldwide mobile remote access via Internet

User interfaces:

- -Integrated web interface
- -App for iOS and Android terminals

Interfaces:

- -LAN
- a. Direct PC/laptop connection
- b. Direct router connection
- -USB for WLAN stick
- a. Access Point Mode
- b. Client mode
- -868 MHz radio communication with
- "R-Tronic" display devices/controls
- -Mains adaptor 5 V

Installation options:

- Wall attachment with the help of the supplied fixing plate.
- Table stand with mains adaptor see accessories, page 1.37.

Page

OVENTROP Room temperature and climate control / Hydronic balancing at the radiator



1.f Valves with "Q-Tech" for automatic hydronic balancing

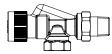
Thermostatic valves "AQ"	1.42
Thermostatic valves "RFQ"	1.42
Thermostatic valves "AQF"	1.43
Exclusive radiator valves "EQ"	1.44
'Multiblock TQ" Two pipe fitting	1.45
'Multiblock TQ-RTL"	1.46
'Demo-Bloc"	1 47

2017

Packing Article-No. Article unit Thermostatic valves "AQ" with "Q-Tech" for automatic hydronic balancing, infinitely adjustable presetting Angle pattern valve 1183063 **DN 10 DN 15** 1183064 (10)DN 20 1183066 (10)**DN 25** 1183068* (10)Straight pattern valve



DN 10	(10)	1183163
DN 15	(10)	1183164
DN 20	(10)	1183166
DN 25	(10)	1183168*



Reversed angle pattern valve

DN 10	(10)	1183263
DN 15	(10)	1183264
DN 20	(10)	1183266



Double angle pattern valve Right hand side connection

DN 10	(10)	1183361
DN 15	(10)	1183363



Left hand side connection

DN 10	(10)	1183360
DN 15	(10)	1183362

Valves for thermostats

with valve insert "QA" connection thread M 30 x 1.5 brass, nickel plated

Application:

Central heating and cooling systems with closed circuits, for operation with nonaggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195). Max. operating pressure p_s: 10 bar (PN 10) Operating temperature t_s: 2 °C up to 110 °C Flow range: 10 - 170 l/h

Function:

The valves with "Q-Tech" are combined control and regulating valves which are used for room temperature control in combination with thermostats with liquid sensor or actuators. The max. flow rate is set to the required nominal value and is constantly maintained within the necessary proportional band.

Presetting is carried out by using the presetting key supplied with the valves.

The thermostatic valves "AQ" and "RFQ" are not suitable for steam installations.

All valve inserts are replaceable by using the special tool "Demo-Bloc" and the coupling set, page 1.60, without draining the system.

All valves are suitable for the installation with copper pipes.

Compression fittings page 1.140, reinforcing sleeves page 1.143.

All thermostatic valves "AQ" and "RFQ" have a light grey protection cap.

Thermostatic valves "RFQ"

with "Q-Tech" for automatic hydronic balancing, infinitely adjustable presetting



Angle pattern valve



Straight pattern valve

DN 10	(10)	1185603
DN 15	(10)	1185604
DN 20	(10)	1185606

Reduced dimensions compared with thermostatic valves "AQ".

Thermostatic valves "RFQ" not suitable for use in combination with female threaded compression fittings "Cofit S".

Compression fittings page 3.45, reinforcing sleeves page 1.143.

2017 1.42 *New in catalogue 2017

1.f Valves with "Q-Tech" for automatic hydronic balancing Thermostatic valves "AQF"

Article	Article-No.	Hint
Thermostatic valves "AQF" with "Q-Tech" for automatic hydroncing balancing, infinitely adjustable fine presetting		Valves for thermostats with valve insert "QAF" connection thread M 30 x 1.5 brass, nickel plated
Angle pattern valve		with fine presetting and proportional control behaviour within a P-range
DN 10 DN 15 DN 20	1183003* 1183004* 1183006*	of 2 K Application: Central heating and cooling systems with
Straight pattern valve DN 10 DN 15 DN 20	1183103* 1183104* 1183106*	closed circuits, for operation with non- aggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195). Max. operating pressure p _s : 10 bar (PN 10) Operating temperature t _s : 2 °C up to 110 °C
Reversed angle pattern valve DN 10	1183203*	Function: The valves with "Q-Tech" are combined control and regulating valves
DN 15 Double angle pattern valve Right hand side connection	1183204*	which are used for room temperature control in combination with thermostats with liquid sensor or actuators. The max. flow rate is set to the required nominal value and is constantly maintained within the
DN 10 DN 15	1183351* 1183353*	necessary proportional band. Presetting is carried out by using the
Left hand side connection DN 10 DN 15	1183350* 1183352*	presetting key supplied with the valves. The thermostatic valves "AQF" are not suitable for steam installations.
		All valve inserts are replaceable by using the special tool "Demo-Bloc" and the coupling set, page 1.47, without draining the system.
		All valves are suitable for the installation with copper pipes.
		Compression fittings page 1.140, reinforcing sleeves page 1.143.
		All thermostatic valves "AQF" have a wine red protection cap.

2017 1.43 *New in catalogue 2017

Room temperature and climate control / Hydronic balancing at oventrop the radiator

1.f Valves with "Q-Tech" for automatic hydronic balancing Exclusive radiator valves "EQ"

Article Hint Article-No.

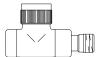
Exclusive radiator valves "EQ"

with "Q-Tech" for automatic hydroncing balancing, infinitely adjustable presetting

Angle pattern valve DN 15



1163552 chrome plated white (RAL 9016) 1163562



Straight pattern valve DN 15

chrome plated 1163652 white (RAL 9016) 1163662

Exclusive radiator valves

Valves for thermostats

with valve insert "QA" connection thread M 30 x 1.5 brass

Application:

Central heating and cooling systems with closed circuits, for operation with nonaggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195). Max. operating pressure ps: 10 bar (PN 10) Operating temperature ts: 2 °C up to 110 °C (chrome plated) 2 °C up to 90 °C (white) Flow range: 10 - 170 l/h

Application:

The valves with "Q-Tech" are combined control and regulating valves which are used for room temperature control in combination with thermostats with liquid sensor or actuators. The max. flow rate is set to the required nominal value and is constantly maintained within the necessary proportional band.

Presetting is carried out by using the presetting key supplied with the valves.

The thermostatic valves "EQ" are not suitable for steam installations.

All valves inserts are replaceable by using the special tool "Demo-Bloc" and the coupling set, page 1.60, without draining the system.

All valves are suitable for the installation with copper pipes.

All thermostatic valves "EQ" have a light grey protection cap.

Packing Article-No. Article Hint unit

"Multiblock TQ" Two pipe fitting

with "Q-Tech" for automatic hydronic balancing Fitting with infinitely adjustable presetting and isolating and draining facility brass, nickel plated, with soft seal

for the connection to radiators with Rp $\frac{1}{2}$ female thread



Straight pattern

1184073



Angle pattern

1184074

"Multiblock TQ" for use on radiators with supply and return pipe connection. Distance between pipe centres 50 mm. Marking "OV 2" on valve body. With valve insert "QA".

To be used:

- -for two pipe operation
- -as thermostatic valve
- -as isolating fitting
- -for draining
- -for filling

Application:

Central heating and cooling systems with closed circuits, for operation with nonaggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).

Max. operating pressure p_s: 10 bar (PN 10) Operating temperature t_s: 2 °C up to 110 °C Flow range: 10 - 170 l/h

Function:

The fittings with "Q-Tech" are combined control and regulating fittings which are used for room temperature control in combination with thermostats with liquid sensor or actuators. The max. flow rate is set to the required nominal value and is constantly maintained within the necessary proportional band.

Presetting is carried out by using the presetting key supplied with the valves.

The "Multiblock TQ" is not suitable for steam installations.

The fittings "Multiblock TQ" have a light grey protection cap.

For the connection of copper, precision steel, stainless steel and plastic pipes as well as Oventrop composition pipe "Copipe", the Oventrop compression fittings are to be used, page 1.142.

Alternatively, the compression fittings of other manufacturers which are suitable for the connection to male thread G ¾ according to DIN EN 16313 (cone "Euro") may also be

The supply and return pipe connections must be strictly observed.

The direction of flow must be observed!

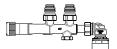
Article

Packing Article-No. unit

"Multiblock TQ-RTL"

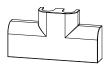
with "Q-Tech" for automatic hydronic balancing Connection fitting for the combination of radiator and surface temperature balance, two pipe fitting, with infinitely adjustable presetting, isolating facility and integrated return temperature limiter, with soft seal, angle pattern, brass, nickel plated,

including mounting aid



for the connection to radiators with Rp ½ female thread

1184076

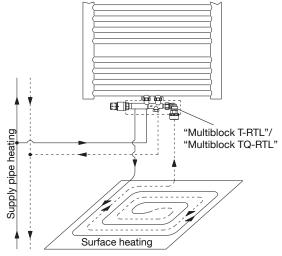


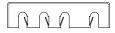
Design cover

for "Multiblock T-RTL" and "Multiblock TQ-RTL"

chrome plated 1184077 1184087 white

System illustration:

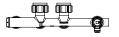




Rosette cover

for "Multiblock T-RTL" and "Multiblock TQ-RTL"

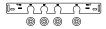
chrome plated 1189077 white 1189087



Block for initial operation

for "Multiblock T-RTL" and "Multiblock TQ-RTL"

1184094



Mounting aid

for "Multiblock T-RTL" and "Multiblock TQ-RTL"

1189094

"Multiblock TQ-RTL" for simultaneous connection of radiators with supply and return connection and 50 mm distance between pipe centres as well as surface temperature balance.

For the separate control of the room temperature and the return temperature (limitation).

With valve insert "QA".

To be used:

- for two pipe operation
- as thermostatic valve at the radiator
- as isolating fitting at the radiator
- for surface temperature balance by use of a return temperature limiter

Application:

Central heating systems with closed circuits, for operation with non-aggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM

Max operating pressure: p_s: 10 bar (PN 10) Operating temperature t_s: 2 °C up to 70 °C

The fittings with "Q-Tech" are combined control and regulating fittings which are used for room temperature control in combination with thermostats with liquid sensor or actuators. The max. flow rate is set to the required nominal value and is constantly maintained within the necessary proportional band.

Presetting is carried out by using the presetting key supplied with the valves.

The fitting "Multiblock TQ-RTL" is not suitable for steam installations.

For the connection of copper, precision steel, stainless steel and plastic pipes as well as the Oventrop composition pipe "Copipe", the Oventrop compression fittings are to be used, page 1.142.

Alternatively, the compression fittings of other manufacturers which are suitable for the connection to G 3/4 male thread according to DIN EN 16313 (cone "Euro") may also be used.

The supply and return connections must be strictly observed to guarantee a perfect function of the fitting.

The surface circuit can be filled, drained, bled and leak tested with installed block for intitial operation.

Used for the pre-assembly and fixing of the pipes of the heating circuit and the surface heating.

Differential pressure measuring stem

seat can be measured with the "Demo-Bloc" and the differential pressure measuring stem.

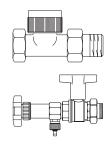
7 211 21 9 19	the radiator			Dellio-Bloc	
	Article	Packin unit	^g Article-No.	Hint	
	Valve inserts			# These valve inserts are suitable for all valve bodies with connection thread M 30 x 1.5 of all	
	for thermostatic valves "Ad fittings "Multiblock TQ, TQ and "Unibox TQ, Q plus"			sizes of the thermostatic valves "A, AV 9, AQ, AV 6, ADV 9, ADV 6, CV 9, E, EQ, AF, RF, RFV 9, RFQ and RFV 6".	
	"QA"	(25)	1187065#		
	"QAF"		1187055*#		
	Replacement filter mesh for valve insert "QA"				
	Set = 10 remplacement filt	er meshes	1187090*		
	"Demo-Bloc" special tool for replacing v	alve inserts		The "Demo-Bloc" is supplied in a handy bag.	
	without draining the system			Max. operating pressure p_s : 10 bar (PN 10)	
	connection thread M 30 x	1.5	1188051	Including coupling set for valve insert "QA".	
	Coupling set for replacement the valve insert "QA"	ent of	1188094		
	Differential pressure mass	uring otom	4400000	The differential pressure above the valve	

1188093

2017 1.47 *New in catalogue 2017

1





1.g Valves for manual hydronic balancing Thermostatic valves "AV 9" 1.50 Thermostatic valves "AV 9" (press connection) 1.50 Thermostatic valves "AV 9" (male thread) 1.51 Thermostatic valves "CV 9" 1.52 Thermostatic valves "AF" 1.53 Accessories 1.55 Thermostatic valves "ADV 9" 1.56 Thermostatic valves "RFV 9" 1.57 "Uniset" Radiator valve sets 1.59 Radiator lockshield valve "Combi 3G" 1.59 "Demo-Bloc" 1.60

2017

Oventiop	tne ra	diator					Thermostatic valves "AV 9" (press connection)
	Article	kv at 1K P-dev.	kv at 2K P-dev.	kvs	Packine unit	^g Article-No.	Hint
			valves "A able pres				Valves for thermostats connection thread M 30 x 1.5 brass, nickel plated
	Angle p	attern va	alve				
	DN 10 DN 15 DN 20 DN 25	0.36 0.36 0.36 0.36	0.67 0.67 0.67 0.67	1.10 1.20 1.30 1.30	` '	1183703 1183704 1183706 1183708	Oventrop valves Test according to EN 215 Regno. 011-6 T 002 Keymark - The Oventrop thermostatic valves "A, AV 9, RF, AF und AZ H" (angle and straight pattern valves DN 10 - DN 20) with the
	Straigh	t pattern	valve				thermostats "Uni XH", "Uni LH", "Uni LH" with
	DN 10	0.36	0.67	0.90	(25)	1183803	remote sensor, "Uni SH", "vindo TH" and "pinox H" are Keymark tested and certified.
	DN 15 DN 20	0.36 0.36	0.67 0.67	1.00 1.20	(25) (25)	1183804 1183806	All materials used are silicone free.
	DN 25 Reverse	0.36 ed angle	0.67 pattern	1.20 valve	(10)	1183808	Application: Central heating and cooling systems with closed circuits, for operation with non-
	DN 10 DN 15 DN 20	0.36 0.36 0.36	0.67 0.67 0.67	0.90 1.00 1.20	(25) (25) (25)	1183903 1183904 1183906	aggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ ÖNORM 5195). Max. operating pressure p _s : 10 bar (PN 10) Operating temperature t _s : 2 °C up to 120 °C
			attern val connectio				(for short periods up to 130 °C)
	DN 10 DN 15	0.36 0.36	0.67 0.67	0.90 1.00	(25) (25)	1183470 1183472	Presetting is carried out by using the presetting key, item no. 1183962, or a spanner 13 mm or the Heimeier presetting key.
	Right h	and side	connect	ion			The thermostatic valves "AV 9" are not suitable for steam installations.
	DN 10 DN 15	0.36 0.36	0.67 0.67	0.90 1.00	(25) (25)	1183471 1183473	All valve inserts are replaceable by using the special tool "Demo-Bloc", page 1.60, without draining the system.
							All valves DN 10 up to DN 20 are suitable for the installation with copper pipes. Compression fittings page 1.140, reinforcing sleeves page 1.143.
			valves "A	**	ess conr	nection)	Attention : Filling and draining of the system before the valves are preset and the thermostat is mounted.
	with pre		nection fo		r, stainles	s steel and	Press connection: For the direct connection of copper pipes
MI TURNIT HUTT HE	Angle p	attern va	alve				according to DIN EN 1057/ DVGW GW 392, stainless steel pipes according to DIN EN
	DN 15	0.36	0.67	1.20	(25)	1183775	10088/ DVGW GW 541 and thin-walled C-steel pipe (material no. E195/1.0034) according to DIN EN 10305-3. Pressing must be carried out to tighten the connection. Only use press jaws with the original contours SANHA (SA),
	Straigh	t pattern	valve				Geberit-Mapress (MM) or Viega (Profipress) in corresponding size. Processing must be
	DN 15	0.36	0.67	1.00	(25)	1183875	carried out according to the installation instructions.
							All thermostatic valves "AV 9" have a white protection cap with 3 frontal lugs.

1.50 2017

Thermostats from page 1.08.

1.g Valves for manual hydronic balancing Thermostatic valves "AV 9" (male thread)

	kv kv Article at 1K at 2K kvs Packing P-dev. P-dev. unit	Hint
	Thermostatic valves "AV 9" (male thread) infinitely adjustable presetting, with G ¾ male threaded pipe connection and R ½ male threaded radiator connection	Especially suitable as flow and return valve for distributors of heating circuits.
	Angle pattern valve	The G ¾ male thread of the valves allows for the connection to copper, precision steel and
	DN 15 0.36 0.67 1.20 (25) 1183747	plastic pipes as well as the Oventrop composition pipe "Copipe" by using the corresponding fittings.
	Straight pattern valve	Fittings page 1.136, compression fittings page 1.140, reinforcing sleeves page 1.143.
	DN 15 0.36 0.67 1.00 (25) 1183847	Attention : Filling and draining of the system before the valves are preset and the thermostat is mounted.
	Reversed angle pattern valve DN 15 0.36 0.67 1.00 (25) 1183942	All thermostatic valves "AV 9" have a white protection cap with 3 frontal lugs.
	Double angle pattern valve	Thermostats from page 1.08.
	Left hand side connection DN 15 0.36 0.67 1.00 (25) 1183446	
	Right hand side connection	
	DN 15 0.36 0.67 1.00 (25) 1183447	
	Universal tool	For setting of the nominal temperature value at
	for thermostat "Uni LHB", (50) 1011489 "Uni LH" and thermostatic valves "AV 9" and "AQ"	the thermostat "Uni LHB", presetting at the valve as well as releasing of the graduation cap of the thermostats "Uni LH", "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".
Ave	Presetting key (10) 1183962 for thermostatic valves "AV 9, ADV 9, RFV 9, CV 9, E" and fittings "Multiblock T/TU/TFU/T-RTL" (manufactured since 2016)	The presetting value can be adjusted with the help of the marking on the hexagon of the valve insert. The presetting key fits only in one position.

Alternatively, presetting can also be carried out with a spanner sized 13 mm.

1.g Valves for manual hydronic balancing Thermostatic valves "CV 9"

Verrerop	tile radiator						Thermostatic valves "GV 9"		
	Article	kv at 1K P-dev.	kv at 2K P-dev.	kvs	Packin unit	⁹ Article-No.	Hint		
	infinitel	ostatic v ly adjusta e plated					Chrome plated valves for thermostats connection thread M 30 x 1.5 brass, chrome plated		
	Angle p	oattern va	alve				Application:		
	DN 15	0.36	0.67	1.20	(25)	1162054	Central heating and cooling systems with closed circuits, for operation with nonaggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).		
	Straigh	t pattern	valve				Max. operating pressure p_s : 10 bar (PN 10) Operating temperature t_s : 2 °C up to 120 °C		
	DN 15	0.36	0.67	1.00	(25)	1162154	(for short periods up to 130 °C)		
		angle pa					Presetting is carried out by using the presetting key, item no. 1183962, or a spanner 13 mm or the Heimeier presetting key.		
	DN 15	0.36	0.67	1.00	(25)	1162472	The thermostatic valves "CV 9" are not suitable for steam installations.		
	Right h	and side	connect	ion			All valve inserts are replaceable by using the		
	DN 15	0.36	0.67	1.00	(25)	1162473	special tool "Demo-Bloc", page 1.47, without draining the system.		
							All valves are suitable for the installation with copper pipes.		
							Compression fittings page 1.140, reinforcing sleeves, page 1.143.		
							Attention: Filling and draining of the system		

protection cap with 3 frontal lugs. Thermostats from page 1.08.

before the valves are preset and the thermostat

All thermostatic valves "CV 9" have a white

For further information see "Technical information":



is mounted.

1.g Valves for manual hydronic balancing Thermostatic valves "AF"

kv Article at 1K P-dev.	kv at 2K kvs . P-dev.	Packing Article-No. unit	Hint
Thermostatic infinitely adjust	valves "AF" able fine presettin	g	Valves for thermostats connection thread M 30 x 1,5 bronze/brass, nickel plated
Angle pattern v	alve		Application
DN 10 0.20 DN 15 0.20 DN 20 0.20	0.32 0.37 0.32 0.37 0.32 0.37	(25) 1180603 (25) 1180604 (25) 1180606	Application: Central heating and cooling systems with closed circuits, for operation with nonaggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).
Straight pattern	n valve		Especially suitable for direct or indirect connection to district heating circuits.
DN 10 0.20 DN 15 0.20 DN 20 0.20	0.32 0.37 0.32 0.37 0.32 0.37	(25) 1180703 (25) 1180704 (25) 1180706	Max. operating pressure p _s : 16 bar (PN 16) Operating temperature t _s : 2 °C up to 120 °C (for short periods up to 140 °C)
Reversed angle	e pattern valve		Central heating systems with a high
DN 10 0.20 DN 15 0.20	0.32 0.37 0.32 0.37	(25) 1180903 (25) 1180904	temperature differential and systems requiring setting of low flow rates (low flow tolerances) for instance up to a maximum kv value of 0.32 at 2 K P-deviation, max. differential pressure
the replacemen	able for panel radia nt of KOSMOS fine F1 - F7 with vertic	e adjustment	3.0 bar, against which the valves close.All valves DN 10 up to DN 20 are suitable for the installation with copper pipes.
Double angle p			Compression fittings page 1.141, reinforcing sleeves page 1.143.
DN 10 0.20 DN 15 0.20	0.32 0.37 0.32 0.37	(25) 1181460 (25) 1181462	All valve inserts are replaceable by using the special tool "Demo-Bloc", page 1.47, without draining the system.
Right hand side	e connection		Attention: Filling and draining of the system before the valves are preset and the thermostat
DN 10 0.20 DN 15 0.20	0.32 0.37 0.32 0.37	(25) 1181461 (25) 1181463	is mounted.
Presetting key	/	valve inserts GHF	All thermostatic valves "AF" have a <u>red</u> protection cap, the gland nut of the valves manufactured since end of 1993 has a <u>red</u> mark.
with pocket		1180791	Thermostats from page 1.08.
Measuring de	vice	1180793	For the exact control of the presetting of the thermostatic valves "AF".
			For further information see "Technical information":

Return flow valves:

oventrop

Room temperature and climate control / Hydronic balancing at the radiator

1.g Valves for manual hydronic balancing Thermostatic valves "AF'

	ΚV	KV		Dealing
rticle	at 1K	at 2K	kvs	Packing Article-No.
	P-dev	P-dev		unit

Thermostatic valves "AF"

infinitely adjustable fine presetting by using the valve insert (except for item no. 1180957)



Straight pattern valve

both ports flat sealing with collar nut G ¾ female thread (length 66 mm)

DN 15	0.20	0.32	0.37	(25)	1180955
DN 15	0.55	1.05	1.80	(25)	1180957



Set 5 = 2 weldable tailpipes

for valve DN 15 (10) 1060592



As conversion valve G 1/8 male thread, flat sealing, without weldable tailpipes and without collar nuts for PRUSS regulating valves no. 120 - 1/2"

	0.20	0.32	0.37	(25)	1180964
Angle p	oattern va	alve			



0.20 0.32 0.37 (25) 1180965 Straight pattern valve (length 80 mm) (25) 1180967 0.20 0.32 0.37 Straight pattern valve (length 70 mm)

Valves for thermostats

connection thread M 30 x 1.5 brass, nickel plated

Application:

Hint

Central heating and cooling systems with closed circuits, for operation with nonaggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195). Especially suitable for direct or indirect connection to district heating circuits. Max. operating pressure p_s : 20 bar (PN 20) Operating temperature t_s : 2 °C up to 120 °C (for short periods up to 130 °C)

These conversion valves (except for thermostatic valve "A", item no. 1180957) have the same regulation characteristics as the thermostatic valves "AF". Item no. 1180957 is equipped with a valve insert "A".

All valve inserts are replaceable by using the special tool "Demo-Bloc", page 1.47, without draining the system.

Attention: Filling and draining of the system before the valves are preset and the thermostat is mounted.

All thermostatic valves "AF" have a red protection cap.

Thermostats from page 1.08.

For further information see 'Technical information":



1.g Valves for manual hydronic balancing Accessories

Article	Packing Au unit	rticle-No.	Hint					
Accessories								
Fittings and cap for straight pattern and conversion valves item no.: 1180964/65/67								
Weldable nipple (steel)								
DN 10 DN 15	` '	010989 010990						
Solder nipple (brass)								
12 mm 15 mm		010991 010992						
Screwed nipple (brass)								
R ½ DIN EN 10 226-1	(10) 1 0	010993						
Collar nut (brass)								
G $\%$ female thread	(10) 1 0	010994						
Threaded tailpipe (brass)								
G $\%$ male thread x 12 mm G $\%$ male thread x 15 mm		010995 010996						
Threaded tailpipe (weldable nipple	e – steel)							
G $\%$ male thread x 15 mm G $\%$ male thread x 15 mm	(10) 1 (10) 1 (010988 010998						
Cap (brass)								
G $\frac{7}{8}$ female thread	(10) 1 0	010997						

2017 1.55

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Room temperature and climate control / Hydronic balancing at the radiator

1.g Valves for manual hydronic balancing Thermostatic valves "ADV 9"

Article	kv at 1K P-dev.	kv at 2K P-dev.	Packing Article-No. unit	Hint	
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Thermostatic valves "ADV 9"

with double function and infinitely adjustable presetting



Angle pattern valve

DN 10	0.36	0.67	(25)	1188363
DN 15	0.36	0.67	(25)	1188364
DN 20	0.36	0.67	(25)	1188366



Straight pattern valve

DN 10	0.36	0.67	(25)	1188463
DN 15	0.36	0.67	(25)	1188464
DN 20	0.36	0.67	(25)	1188466

All other thermostatic valves "A, AV 9, AF, CV 9, E, RF and RFV 9" can also be equipped with the valve insert with double function and presetting, item no. 1186002, page 1.109.

Valves for thermostats

connection thread M 30 x 1.5 brass, nickel plated

Application:

Central heating and cooling systems with closed circuits, for operation with nonaggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195). Max. operating pressure p_s : 10 bar (PN 10) Operating temperature t_s : 2 °C up to 120 °C (for short periods up to 130 °C)

The thermostatic valves "ADV 9" are not suitable for steam installations.

The double function of these valves provokes an automatic closing of the valve to 5 % of the nominal flow (frost protection) should the thermostat be removed or destroyed.

Not suitable for use with electric actuators.

All valve inserts are replaceable by using the special tool "Demo-Bloc", page 1.60, without draining the system.

All valves DN 10 up to DN 20 are suitable for the installation with copper pipes.

Compression fittings: page 1.140, reinforcing sleeves: page 1.143.

Attention: Before filling and draining the system, the protection cap has to be opened by one turn starting from the shut position.

All thermostatic valves "ADV 9" have a grey-green protection cap with 3 frontal lugs and a grey-green coloured marking on the bonnet.

Thermostats from page 1.08.

For further information see "Technical information":



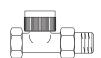
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Room temperature and climate oventrop control / Hydronic balancing at the radiator

1.g Valves for manual hydronic balancing Thermostatic valves "RFV 9"

 111014	aiatoi				Thermostatic valves Til V 5
Article	kv at 1K P-dev.	kv at 2K P-dev.	kvs	Packing unit Article-No.	Hint
Thermostatic valves "RFV 9" reduced dimensions, infinitely adjustable presetting					Valves for thermostats connection thread M 30 x 1.5 brass, nickel plated
Angle p	oattern va 0.36	o.67	1.10	(25) 1185003	Application: Central heating and cooling systems with

(25) 1185106



DN 10	0.36	0.67	1.10	(25)	1185003
DN 15	0.36	0.67	1.20	(25)	1185004
DN 20	0.36	0.67	1.30	(25)	1185006

1.20

Straight pattern valve										
DN 10	0.36	0.67	0.90	(25)	1185103					
DN 15	0.36	0.67	1.00	(25)	1185104					

0.67

DN 20

0.36

closed circuits, for operation with nonaggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195). Max. operating pressure p_s : 10 bar (PN 10) Operating temperature t_s : 2 °C up to 120 °C (for short periods up to 130 °C)

The thermostatic valves "RFV 9" are not suitable for steam installations.

Reduced dimensions compared with "AV 9".

Thermostatic valves "RFV 9" are not suitable for use in combination with female threaded compression fittings "Cofit S".

Compression fittings page 3.45, reinforcing sleeves page 1.143.

Attention: Filling and draining of the system before the valves are preset and the thermostat is mounted.

All thermostatic valves "RFV 9" have a light green protection cap with 3 frontal lugs.

Thermostats from page 1.08.

For further information see "Technical information":



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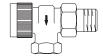
Room temperature and climate control / Hydronic balancing at the radiator

1.g Valves for manual hydronic balancing Return flow valves

	kv	kv		Packing
Article	at 1K		kvs	Packing Article-No.
	P-dev.	P-dev.		

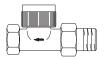
Return flow valves

Thermostatic valves "AV 9" infinitely adjustable presetting



Reversed angle pattern valve for the return pipe

DN 10	0.36	0.67	1.10	(25)	1183793
DN 15	0.36	0.67	1.20	(25)	1183794



Straight pattern valve for the return pipe

DN 10	0.36	0.67	0.90	(25)	1183893
DN 15	0.36	0.67	1.00	(25)	1183894

Valves for thermostats

connection thread M 30 x 1.5 brass, nickel plated

Application:

Hint

Central heating and cooling systems with closed circuits, for operation with nonaggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195). Max. operating pressure p_s : 10 bar (PN 10) Operating temperature t_s : 2 °C bis 120 °C (for short periods up to 130 °C)

Especially suitable for installations with reversed supply and return pipe and for upright radiators.

Attention: Reversed supply and return pipe at the radiator might reduce the capacity.

Compression fittings page 3.45, reinforcing sleeves page 1.143.

Presetting is carried out by using the presetting key, item no. 1183962, or a spanner 13 mm or the Heimeier presetting key.

The return flow valves are not suitable for use in combination with female threaded compression fittings "Cofit S".

All return flow valves are suitable for the installation with copper pipes.

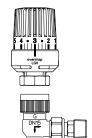
The return flow valves "AV 9" have a white protection cap with 3 frontal lugs.

Thermostats from page 1.08.

1.g Valves for manual hydronic balancing
"Uniset" Radiator valve sets
Radiator lockshield valve "Combi 3G"

Article Packing Article-No. Hint

"Uniset" Radiator valve sets



"Uniset Pro" - Bi-directional Thermostatic valve body, liquid ("Uni LGH") thermostat and Combi 3G lockshield valve

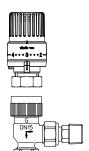
15 mm x $\frac{1}{2}$ " BSP tail

(50) **1188585**

For pumped 2 pipe systems PN 10 at 120 °C max.
Angle nickel plated body having compression x ½" BSP union tail to suit copper pipe only.

Fully bi-directional.

Certified to EN 215.



"Uniset Pro" - Bi-directional Thermostatic valve body, liquid (Vindo TGH) thermostat and Combi 3G lockshield valve

15 mm x 1/2" BSP tail

(50) **1189785**

Radiator lockshield valve "Combi 3G"



"Combi 3G"

15 mm x ½" BSP tail (50

(50) **1098362**

Angle pattern nickel plated body having compression x ½" BSP union tail to suit copper pipe only. Pumped 2 pipe systems. PN 10 at 120 °C max.

2017 1.59

OVENTROP Room temperature and climate control / Hydronic balancing at the radiator

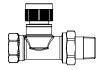
1.g Valves for manual hydronic balancing "Demo-Bloc"

	Article	Packing unit	^g Article-No.	Hint
	"Demo-Bloc" special tool for replacing valve inse	erts		The "Demo-Bloc" is supplied in a handy bag.
	without draining the system			Max. operating pressure p _s : 10 bar (PN 10)
	connection thread M 30 x 1.5		1188051	Including coupling set for valve insert "QA".
0 0	Cleaning head for all valves	(100)	1188400	The valve seat can be cleaned by use of the "Demo-Bloc" and the cleaning head.
	Coupling set for replacement of the valve insert "HRV"		1188092	
	Coupling set for replacement of the valve insert "QA"		1188094	
	Differential pressure measuring ste	em	1188093	The differential pressure above the valve seat can be measured with the "Demo-Bloc" and the differential pressure measuring stem.

Page

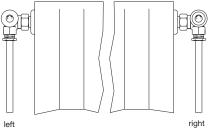
OVENTROP Room temperature and climate control / Hydronic balancing at the radiator

1.h Valves for large flow rates



Content	
Thermostatic valves "A"	1.62
Thermostatic valves "A" (male thread)	1.63
Thermostatic valves "AZ V"	1.64
Thermostatic valves "AZ H"	1.64
Thermostatic valves "RF"	1.65

o v Circi o p	lile ra	uiatoi					I nermostatic valves "A"
	Article	kv at 1K P-dev.	kv at 2K P-dev.	kvs	Packing unit	^g Article-No.	Hint
	Thermo	ostatic v	alves "A	II .			Valves for thermostats connection thread M 30 x 1.5
	Angle p	attern va	llve				brass, nickel plated
	DN 10 DN 15 DN 20 DN 25 DN 32	0.50 0.50 0.55 0.55 0.55	0.95 0.95 1.10 1.10	1.35 1.35 3.50 3.50 4.10	(25) (25) (10)	1181003 1181004 1181006 1181008 1181010	Application: Central heating and cooling systems with closed circuits, for operation with nonaggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195). Max. operating pressure p _s : 10 bar (PN 10)
	Straight	t pattern	valve				Operating temperature t _s : 2 °C up to 120 °C
	DN 10 DN 15 DN 20 DN 25 DN 32	0.50 0.50 0.55 0.55 0.55	0.95 0.95 1.10 1.10 1.10	1.35 1.35 2.50 3.30 4.10	(25) (25) (25) (10) (10)	1181103 1181104 1181106 1181108 1181110	(for short periods up to 130°C) Valves DN 20 up to DN 32, with high kvs value, to be used also for zone control as well as in one pipe, two pipe and gravity heating sytems. Steam 0.5 bar at 110 °C.
	Reverse	ed angle	pattern v	alve			All valve inserts are replaceable by using the
	DN 10 DN 15 DN 20	0.50 0.50 0.55	0.95 0.95 1.10	1.35 1.35 2.20	(25) (25) (25)	1181403 1181404 1181406	special tool "Demo-Bloc", page 1.60, without draining the system. All valves DN 10 up to DN 20 are suitable for the installation with copper pipes.
		angle pa and side					All valves sized DN 15 can also be connected to the Oventrop composition pipe "Copipe".
	DN 10 DN 15	0.50 0.50	0.95 0.95	1.35 1.35	(25) (25)	1181391 1181393	Compression fittings page 1.140, reinforcing sleeves page 1.143.
	Left har	nd side c	onnectio	n			All thermostatic valves "A" have a black
	DN 10 DN 15	0.50 0.50	0.95 0.95	1.35 1.35	(25) (25)	1181390 1181392	protection cap. Thermostats from page 1.08.



For further information see "Technical information":



1.h Valves for large flow rates ostatic valves "A" (male thread)

ventiop	the ra	diator					Thermostatic valves "A" (male threa	ıd)
	Article	kv at 1K P-dev.	kv at 2K P-dev.	kvs	Packing unit	g Article-No.	Hint	
	with G	¾ male tl	hreaded	" (male the pipe conrector conne	nection a	and	The G ¾ male thread of the valves allows for the connection to copper, precision steel and plastic pipes as well as the Oventrop composition pipe "Copipe" by using the corresponding fittings.	
	Angle p	oattern va 0.50	o.95	1.35	(25)	1181097	Fittings page 1.136, compression fittings pag 1.140, reinforcing sleeves page 1.143.	е
	Straight	t pattern 0.50	valve 0.95	1.35	(25)	1181197	All thermostatic valves "A" have a black protection cap. Thermostats from page 1.08.	
	Reverse DN 15	ed angle 0.50	pattern v 0.95	alve 1.35	(25)	1181492		
			attern valvonnectio		(25)	1181396	left right	
			connecti 0.95		(25)	1181397	For further information see "Technical information":	



oventrop the radiator

Room temperature and climate control / Hydronic balancing at

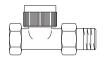
1.h Valves for large flow rates Thermostatic valves "AZ V" Thermostatic valves "AZ H"

Article	kv at 1K P-dev.	kv at 2K P-dev.	kvs	Packing Article-No. unit	Hint
Therm	ostatic va	lves "AZ	V"		Valve
infinite	ly adjustab	le presett	ing		conr



Angle pattern valve

DN 15	0.47	0.92	3.00	(25)	1187504
DN 20	0.47	0.92	3.00	(25)	1187506



Straight pattern valve

DN 15	0.47	0.92	1.70	(25)	1187604
DN 20	0.47	0.92	2.30	(25)	1187606
DN 25	0.47	0.92	3.00	(10)	1187608

alves for thermostats

onnection thread M 30 x 1.5 brass, nickel plated

Application:

flow rates.

Central heating and cooling systems with closed circuits, for operation with nonaggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195). Max. operating pressure ps: 16 bar (PN 16) Operating temperature t_s: -10 °C up to 120 °C

With infinitely adjustable valve insert for high

The thermostatic valves "AZ V" are, amongst others, used for the zone control in combination with thermostats or actuators in central heating and cooling systems.

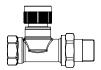
All valve inserts are replaceable by using the special tool "Demo-Bloc", page 1.60, without draining the system.

All valves DN 15 up to DN 20 are suitable for the installation with copper pipes.

Compression fittings page 1.140, reinforcing sleeves page 1.143.

Presetting key, item no. 1068585, page 3.18.

All thermostatic valves "AZ V" have a green protection cap.



Thermostatic valves "AZ H"

Straight pattern valve

DN 20	0.68	1.35	4.00	(25)	1188406
DN 25	0.68	1.35	4 90	(10)	1188408

Application:

Central heating and cooling systems with closed circuits, for operation with nonaggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195). Max. operating pressure p_s: 10 bar (PN 10) Operating temperature t_s: 2 °C up to 120 °C

Valves with high flow capacity, especially suitable for zone control as well as one pipe, two pipe and gravity heating systems.

Not suitable for the installation with compression fittings.

The valve insert of the thermostatic valves "AZ H" can not be replaced by using the special tool "Demo-Bloc".

All thermostatic valves "AZ H" have an orange protection cap.

ventiop	the ra	diator					Thermostatic valves "RF		
	Article	kv at 1K P-dev.	kv at 2K P-dev.	kvs	Packing unit	⁹ Article-No.		Hint	
		ostatic v d dimens		RF"				Valves for thermostats connection thread M 30 x 1.5 brass, nickel plated	
								Application: Central heating and cooling systems with closed circuits, for operation with nonaggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195). Max. operating pressure $p_{\rm g}$: 10 bar (PN 10) Operating temperature $t_{\rm s}$: 2 °C up to 120 °C (for short periods up to 130 °C)	
								Reduced dimensions compared with thermostatic valves "A".	
								Compression fittings page 3.45, reinforcing sleeves page 1.143.	
								Thermostatic valves "RF" are not suitable for use in combination with female threaded compression fittings "Cofit S".	
								All valves are suitable for the installation with copper pipes.	
								All thermostatic valves "RF" have a <u>blue</u> protection cap.	
								Thermostats from page 1.08.	
	Angle p	oattern va	alve						
	DN 10 DN 15 DN 20	0.50 0.50 0.55	0.95 0.95 1.10	1.35 1.35 3.50	(25) (25) (25)	1184703 1184704 1184706		49 mm 54 mm 63 mm	

DN 20	0.55	1.10	3.50	(25)	1184706	63 mm
Straight	pattern	valve				
DN 10 DN 15 DN 20	0.50 0.50 0.55	0.95 0.95 1.10	1.35 1.35 2.50	(25) (25) (25)	1184803 1184804 1184806	75 mm 83 mm 98 mm

Page

OVENTROP Room temperature and climate control / Hydronic balancing at the radiator

1.i Thermostatic valve sets



1.i Thermostatic valve sets

Content

Thermostatic valve sets with thermostat "vindo TH"	1.68
Thermostatic valve sets with thermostat "Uni LH"	1.69
Connection sets "Multiflex F" with thermostat "vindo TH"	1.69

Room temperature and climate control / Hydronic balancing at oventrop the radiator

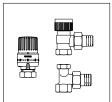
1.i Thermostatic valve sets Thermostatic valve sets with thermostat "vindo TH"

Article

Packing Article-No. unit

Thermostatic valve sets with thermostat "vindo TH"

Angle pattern



consisting of:

Thermostatic valve "AQ" with "Q-Tech" for automatic hydronic balancing, radiator lockshield valve "Combi 2", thermostat "vindo TH"

DN 10 (10) 1713063* DN 15 (10) **1713064***

consisting of:

Thermostatic valve "AV 9" with infinitely adjustable presetting, radiator lockshield valve "Combi 2", thermostat "vindo TH"

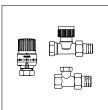
DN 10 (10) 1673703 **DN 15** (10) 1673704

consisting of:

Thermostatic valve "A", radiator lockshield valve "Combi 2", thermostat "vindo TH"

DN 10 (10) 1671003 **DN 15** (10) 1671004

Straight pattern



consisting of:

Thermostatic valve "AQ" with "Q-Tech" for automatic hydronic balancing, radiator lockshield valve "Combi 2", thermostat "vindo TH"

DN 10 (10) 1713163* DN 15 (10) **1713164***

consisting of:

Thermostatic valve "RFV 9" with infinitely adjustable presetting, radiator lockshield valve "Combi 2", thermostat "vindo TH"

DN 10 (10) 1675103 DN 15 (10) **1675104**

consisting of:

Thermostatic valve "RF", radiator lockshield "Combi 2", thermostat "vindo TH"

DN 10 1672003 **DN 15** 1672004 Application:

Central heating and cooling systems with closed circuits, for operation with nonaggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195). Max. operating pressure p_s: 10 bar (PN 10)

Thermostatic valves "AQ": Operating temperature t_s: 2 °C up to 110 °C

Thermostatic valves "AV 9", RFV 9", "RF", "A" and radiator lockshield valve "Combi 2": Operating temperature t_s: 2 °C up to 120 °C (for short periods up to 130 °C)

2017 1.68 *New in catalogue 2017

Packing Article-No. Article unit

Thermostatic valve sets with thermostat "Uni LH"

Angle pattern



consisting of:

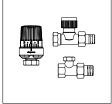
Thermostatic valve "AQ" with "Q-Tech" for automatic hydronic balancing, radiator lockshield valve "Combi 2", thermostat "Uni LH"

DN 10 (10) **1703063*** DN 15 (10) **1703064***

consisting of:

Thermostatic valve "AV 9" with infinitely adjustable presetting, radiator lockshield valve "Combi 2", thermostat "Uni LH"

DN 10 (10) **1683703*** DN 15 (10) 1683704*



Straight pattern

consisting of:

Thermostatic valve "AQ" with "Q-Tech" for automatic hydronic balancing, radiator lockshield valve "Combi 2", thermostat "Uni LH"

DN 10 (10) 1703163* DN 15 (10) 1703164*

consisting of:

Thermostatic valve "AV 9" with infinitely adjustable presetting, radiator lockshield valve "Combi 2", thermostat "vindo TH"

DN 10 (10) 1683803* (10) **1683804*** DN 15

Connection sets "Multiflex F" with thermostat "vindo TH"

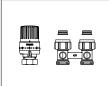


Angle pattern

consisting of:

"Multiflex F" ZB angle pattern isolating fitting and thermostat "vindo TH"

for G 3/4 male thread (10) 1715814* for G 1/2 female thread (10) 1715884*



Straight pattern

consisting of:

"Multiflex" ZB isolating fitting, thermostat "vindo TH"

for G ¾ male thread (10) 1715813* for G 1/2 female thread (10) 1715883*

Application:

Central heating and cooling systems with closed circuits, for operation with nonaggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).

Max. operating pressure p_s: 10 bar (PN 10)

Thermostatic valves "AQ": Operating temperature t_s: 2 °C up to 110 °C

Thermostatic valves "AV 9" and radiator lockshield valve "Combi 2": Operating temperature t_s: 2 °C up to 120 °C (for short periods up to 130 °C)

Central heating and cooling systems with closed circuits, for operation with nonaggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).

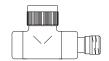
Max. operating pressure p_s: 10 bar (PN 10) Operating temperature t_s: 2 °C up to 120 °C (for short periods up to 130 °C)

1.69 2017 *New in catalogue 2017

Page

1.75

Room temperature and climate oventrop control / Hydronic balancing at the radiator



1.j Exclusive	radiator	valves
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Thermostatic valve sets "E"

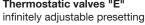
Content Thermostatic valves "E" 1.72 Design handgrips 1.73 Radiator lockshield valves "Combi E" 1.74 Sets of compression fittings (1-fold) 1.74 T-pieces 1.74 Wall connection sets (1-fold) 1.74

Room temperature and climate control / Hydronic balancing at oventrop the radiator

1.j Exclusive radiator valves Thermostatic valves "E"

	KV	KV		
Article		at 2K P- kvs dev.	Packing Article-No. unit	Hint

Thermostatic valves "E"





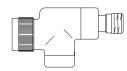
Angle pattern valve DN 15

anthracite (RAL 7016)	0.36	0.67	1.20	(10)	1163032
sand blasted and nickel plated	0.36	0.67	1.20	(10)	1163042
chrome plated	0.36	0.67	1.20	(10)	1163052
white (RAL 9016)	0.36	0.67	1.20	(10)	1163062
gold plated	0.36	0.67	1.20	(10)	1163072
stainless steel	0.36	0.67	1.20	(10)	1163082



Straight pattern valve DN 15

anthracite	0.36	0.67	1.00	(10)	1163132
(RAL 7016) sand blasted and nickel plated	0.36	0.67	1.00	(10)	1163142
chrome plated	0.36	0.67	1.00	(10)	1163152
white (RAL 9016)	0.36	0.67	1.00	(10)	1163162
gold plated	0.36	0.67	1.00	(10)	1163172
stainless steel finish	0.36	0.67	1.00	(10)	1163182



Reversed angle pattern valve DN 15

anthracite (RAL 7016)	0.36	0.67	1.00	(10)	1163232
chrome plated	0.36	0.67	1.00	(10)	1163252
white (RAL 9016)	0.36	0.67	1.00	(10)	1163262



Double angle pattern valve

Left hand side connection DN 15

anthracite (RAL 7016)	0.36	0.67	1.00	(10)	1163432
chrome plated white (RAL 9016) stainless steel finish	0.36	0.67	1.00	(10)	1163452 1163462 1163482



Right hand side connection DN 15

anthracite (RAL 7016)	0.36	0.67	1.00	(10)	1163433
chrome plated	0.36	0.67	1.00	(10)	1163453
white (RAL 9016)	0.36	0.67	1.00	(10)	1163463
stainless steel	0.36	0.67	1.00	(10)	1163483
finish					

Exclusive radiator valves Valves for thermostats

connection thread M 30 x 1.5 brass

Application:

Central heating and cooling systems with closed circuits, for operation with nonaggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195). Max. operating pressure p_s : 10 bar (PN 10) Operating temperature t_s: 2 °C up to 120 °C (for short periods up to 130 °C), 2 °C up to 90 °C for the white models and in stainless steel finish.

Oventrop exclusive thermostatic radiator and lockshield valves for an elegant home interior. Technical data and nominal flow rate as thermostatic valves "AV 9", page 1.50.

All valve inserts are replaceable by using the special tool "Demo-Bloc", page 1.60, without draining the system.

All valves are suitable for the installation with copper pipes.

Attention: Filling and draining of the system before the valves are preset and the thermostat is mounted.

Awards:

Design Award of North Rhine Westphalia, Award of Honour for Industrial Products



Industrial Design Forum Hanover Award iF

Design Innovation of Design Centre Essen Award for high Quality of Design



Pragotherm, Prague



German Institute for Copper Berlin Award "Product and Brass'

Admission to "The New Collection" for exemplary Design Munich, "Design Laboratory" Museum of Art and Commerce Hamburg and Design Museum London

Thermostats from page 1.08.

1.j Exclusive radiator valves Design handgrips

Article	Article-No.	Hint
Design handgrips for thermostatic valves "E", chrome plat connection thread M 30 x 1.5	red	For the manual, infinitely adjustable control of the room temperature. They do not contain a thermostatic sensor element.
TARA ◊	1168052	Consisting of handgrip and adapter.
		May be fitted onto the chrome plated thermostatic valves "E". Max. flow temperature: 75 °C
MADISON ◊	1168152	Product and trademark of the company Alois F. Dornbracht GmbH & Co. KG Armaturenfabrik.
		For further information see "Technical information":

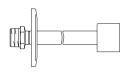
1.j Exclusive radiator valves Radiator lockshield valves "Combi E" Sets of compression fittings (1-fold) T-pieces Wall connection sets (1-fold)

Packing Article-No. Article Hint unit Radiator lockshield valves "Combi E" Technical data as "Combi 4", page 1.128. Angle pattern DN 15 Service tool, anthracite (RAL 7016) (10)1166032 item no. 1090551, page 1.123. sand blasted and nickel plated 1166042 (10)1166052 chrome plated (10)white (RAL 9016) (10)1166062 gold plated 1166072 (10)stainless steel finish 1166082 (10)Straight pattern DN 15 1167032 anthracite (RAL 7016) (10)sand blasted and nickel plated (10)1167042 chrome plated (10)1167052 white (RAL 9016) (10)1167062 gold plated (10)1167072 stainless steel finish (10)1167082 Sets of compression fittings (1-fold) Attention: When installing copper pipes with a wall for copper pipe according to DIN EN 1057 consisting of: thickness of ≤ 1 mm it is necessary to use reinforcing sleeves for the additional compression ring, compression nut, cap stabilisation of the pipe. Should the wall thickness exceed 1 mm, please contact the G 1/2 M x 12 mm sand blasted and nickel 1169392 plated pipe manufacturer. Reinforcing sleeves for wall thickness = 1 mm, page 1.143. G 1/2 M x 15 mm sand blasted and nickel 1169393 Note: The pipes are not held by the soft sealing plated fitting, they have to be fixed additionally. G 1/2 M x 16 mm sand blasted and nickel 1169394 Regarding stretching of the pipe ends, the plated instructions of the pipe manufacturers have to be observed. G 1/2 M x 12 mm chrome plated 1169092 G ½ M x 15 mm chrome plated 1169093 For further information see G ½ M x 16 mm chrome plated 1169094 "Technical information": G ½ M x 12 mm white (RAL 9016) 1169192 G ½ M x 15 mm white (RAL 9016) 1169193 G ½ M x 16 mm white (RAL 9016) 1169194 G ½ M x 12 mm gold plated 1169292 1169293 G ½ M x 15 mm gold plated G ½ M x 16 mm gold plated 1169294 G ½ M x 12 mm anthracite (RAL 7016) 1169492 G 1/2 M x 15 mm anthracite (RAL 7016) 1169493 G 1/2 M x 12 mm stainless steel finish 1169592 G 1/2 M x 15 mm stainless steel finish 1169593 For the installation of heating elements in towel T-pieces radiators.



R ½ M x Rp ½ F, connection of heating element G ½ F

chrome plated 1167552 1167562 white



Wall connection sets (1-fold)

chrome plated

1169553 **DN 15**

white

DN 15 1169563



Item no.1167552/62

For the wall installation of the exclusive radiator valves.

Consisting of: pipe Ø 15 mm white or chrome plated, L = 150 mm, R 1/2 male thread EN 10226-1 connection for the wall installation and compression fittings for the exclusive radiator valves.

Article

Thermostatic valve sets "E" **Exclusive radiator valves** chrome plated, DN 15 Application: Central heating and cooling systems with Angle pattern closed circuits, for operation with nonconsisting of: ШШ aggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according 1164052 Angle pattern valve, to VDI 2035/ÖNORM 5195). angle pattern lockshield valve, Max. operating pressure ps: 10 bar (PN 10) thermostat "Uni SH" Operating temperature t_s: 2 °C up to 120 °C (for short periods up to 130 °C) Oventrop exclusive radiator and lockshield valves for an elegant home interior. Straight pattern Technical data and nominal flow rate as consisting of: thermostatic valves "AV 9", page 1.50. Straight pattern valve, 1164152 All valve inserts are replaceable by using the straight pattern lockshield valve, special tool "Demo-Bloc", page 1.60, without thermostat "Uni SH" draining the system. All valves are suitable for the installation with copper pipes. Compression fittings page 1.74. Double angle pattern left hand side connection Attention: Filling and draining of the system consisting of: before the valves are preset and the thermostat is mounted. 1164352 Double angle pattern valve (left hand side connection), angle pattern lockshield valve, thermostat "Uni SH" Double angle pattern right hand side connection consisting of: Double angle pattern valve 1164452 (right hand side connection), angle pattern lockshield valve, thermostat "Uni SH"

Article-No.

Hint

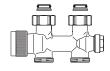
2017 1.75

oventrop control / Hydronic balancing at the radiator

Room temperature and climate

1.k "Multiblock T/ T-RTL" Fittings for radiators with centre connection





1.k "Multiblock T/ T-RTL" Fittings for radiators with centre connection Content

"Multiblock T" Two pipe fitting	1.78
"Multiblock TU" One/two pipe fitting convertible	1.78
Design covers	1.79
Connection sets "Multiblock T"/"Uni SH" for towel radiators (radiators with Rp ½ female thread)	1.80
Connection sets "Multiblock T"/"pinox H" for towel radiators (radiators with Rp ½ female thread)	1.80
"Multiblock TFU" One/two pipe fitting convertible	1.81
Connection sets "Multiblock TFU"/"Uni SH" for towel radiators (radiators with Rp ½ female thread)	1.81
"Multiblock T-RTL"	1.82
Connection sets "Multiblock T-RTL"/"Uni SH"	1.83
Connection sets "Multiblock T-RTL"/"pinox H"	1.83

ti io i a	alatol				Widitibi
Article	kv at 1K P-dev.	kv at 2K P-dev.	kvs	Packing Article-No. unit	Hint
"Multiblock T" Two pipe fitting Fitting with presetting and isolating and draining facility brass, nickel plated, with soft seal Installation irrespective of the position of the supply and return pipe					"Mul and I Dista Marl To b
for the	connecti	on to rad	iators w	rith G ¾ male thread	– for



according to DIN EN 16313 (cone "Euro")

	0.34	0.57	0.81	(5)	1184013
Straight p	oattern				



0.34 0.57 0.81 1184014 Angle pattern



for the connection to radiators with Rp ½ female thread

	0.34	0.57	0.81	(5)	1184083
Straight	pattern				



0.34 0.57 0.81 1184084 Angle pattern

"Multiblock TU" One/two pipe fitting convertible

Fitting with presetting, convertible, with isolating facility brass, nickel plated, with soft seal

Installation irrespective of the position of the supply and return pipe



for the connection to radiators with G 34 male thread according to DIN EN 16313 (cone "Euro")

	0.34	0.57	0.81	(5)	1184023
Straight	pattern				



0.57 0.34 0.81 1184024 Angle pattern



for the connection to radiators with Rp $\frac{1}{2}$ female thread 1184033 0.34 0.57 0.81



0.34 0.57 0.81 1184034 Angle pattern

Straight pattern

'Multiblock T" for use on radiators with supply and return pipe connection.

Distance between pipe centres 50 mm.

Marking "OV 2" on valve body.

o be used:

- for two pipe operation
- as thermostatic valve
- as isolating fitting
- for draining
- for filling

Application:

Central heating and cooling systems with closed circuits, for operation with nonaggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).

Max. operating pressure p_s: 10 bar (PN 10) Operating temperature t_s: 2 °C up to 120 °C (for short periods up to 130 °C)

Technical data as thermostatic valves "AV 9". For the connection of copper, precision steel, stainless steel and plastic pipes as well as the Oventrop composition pipe "Copipe", the Oventrop compression fittings are to be used, page 1.142.

Alternatively, the compression fittings of other manufacturers which are suitable for the connection to male thread G 3/4 according to DIN EN 16313 (cone "Euro") may also be used.

"Multiblock TU" for use on radiators with supply and return pipe connection. Distance between pipe centres 50 mm. Supplied for two pipe operation. Conversion to one pipe operation see installation instructions.

Marking "OV 1+2" on valve body.

To be used:

- for one or two pipe operation
- as thermostatic valve
- as isolating fitting

Application:

Central heating and cooling systems with closed circuits, for operation with nonaggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).

Max. operating pressure p_s: 10 bar (PN 10) Operating temperature t_s: 2 °C up to 120 °C (for short periods up to 130 °C)

Technical data as thermostatic valves "AV 9". kv-/kvs values valid for two pipe operation. Values for one pipe operation see "Technical information".

For the connection of copper, precision steel, stainless steel and plastic pipes as well as Oventrop composition pipe "Copipe", the Oventrop compression fittings are to be used, page 1.142.

Alternatively, the compression fittings of other manufacturers which are suitable for the connection to male thread G 3/4 according to DIN EN 16313 (cone "Euro") may also be used.

Award:

"Multiblock T" in combination with

"Uni SH" in stainless steel finish



Design Centre Essen reddot design award



Design Award of the Federal Republic of Germany Nominated 2009



1.k "Multiblock T/ T-RTL" Fittings for radiators with centre connection Design covers

Article	kv at 2K P-dev.	Packing unit Article-No.	Hint
Design covers for "Multiblock			
Straight pattern	1		
anthracite stainless steel t white chrome plated	finish	(5) 1184088 (5) 1184090 (5) 1184095 (5) 1184097	
Angle pattern			
anthracite stainless steel t white chrome plated	finish	(5) 1184089 (5) 1184091 (5) 1184096 (5) 1184098	
Special valve in with presetting	nsert for reversed s	supply and return pipe	As replacement for: - "Multiblock T/TU/TFU"
"AV6U" "AV9U"	0.52 0.57	(100) 1187077° (100) 1187078	 "Unibox E T" "Unibox E plus" "Unibox E vario" "Unibox E BV" In case of reversed direction of flow for: "Unibox T" "Unibox TQ" "Unibox plus" (connection for room temperature control) "Unibox vario" (connection for room temperature control) "Unibox Q plus" (connection for room temperature control)

1.k "Multiblock T/ T-RTL" Fittings for radiators with centre connection Connection sets "Multiblock T"/"Uni SH" for towel radiators (radiators with Rp ½ female thread) Connection sets "Multiblock T"/"pinox H" for towel radiators (radiators with Rp 1/2 female thread)

Article Article-No.

Connection sets "Multiblock T"/"Uni SH" for towel radiators (radiators with Rp 1/2 female thread)



Straight pattern

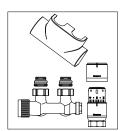
consisting of:

"SH-Cap"

"Multiblock T", connection fitting with presetting, two pipe fitting Design cover "Uni SH" Thermostat with liquid sensor

1184183 white chrome plated 1184283

1184383



Angle pattern

stainless steel finish

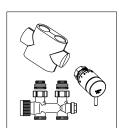
consisting of:

"SH-Cap"

"Multiblock T", connection fitting with presetting, two pipe fitting Design cover "Uni SH" Thermostat with liquid sensor

1184184 white chrome plated 1184284 stainless steel finish 1184384

Connection sets "Multiblock T"/"pinox H" for towel radiators (radiators with Rp 1/2 female thread)



Straight pattern

consisting of:

"Multiblock T", connection fitting with presetting, two pipe fitting Design cover "pinox H" Thermostat with liquid sensor

1184185 chrome plated 1184285



Angle pattern

consisting of:

"Multiblock T", connection fitting with presetting, two pipe fitting Design cover "pinox H" Thermostat with liquid sensor

white 1184186 1184286 chrome plated

"Multiblock T" for use on radiators with supply and return pipe connection.

Distance between pipe centres 50 mm. Marking "OV 2" on valve body.

To be used:

-for two pipe operation

-as thermostatic valve

-as isolating fitting

-for draining

-for filling

Application:

Central heating and cooling systems with closed circuits, for operation with nonaggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195). Max. operating pressure ps: 10 bar (PN 10) Operating temperature t_s: 2 °C up to 120 °C (for short periods up to 130 °C)

Technical data as thermostatic valves "AV 9".

"Uni SH": with '0' setting, temperature range 7-28 °C graduation on cap 0 ☼ 1-5

White set:

Thermostat "Uni SH" white/chrome plated

"Multiblock T" also available as one/two pipe fitting (convertible): page 1.78 Marking "OV 1+2" on valve body.

Awards:

"Multiblock T" in combination with "Uni SH" in stainless steel finish: Design Centre Essen



reddot design award Design Award of the Federal Republic of Germany

Nominated 2009 "pinox H":

without '0' setting Temperature range: 7 - 28 °C Graduation on cap: ☼ 1 - 5

1.k "Multiblock T/ T-RTL" Fittings for radiators with centre connection "Multiblock TFU" One/two pipe fitting convertible

Article	kv at 1K P-dev.	kv at 2K P-dev.	kvs	Packing Article-No. unit	Hint

"Multiblock TFU" One/two pipe fitting convertible

Fitting with presetting,

pivoting supply/return pipe connection with isolating and draining facility brass, nickel plated, with soft seal

Installation irrespective of the position of the supply and return pipe

for the connection to radiators with $\,$ G $\,$ 4 male thread according to DIN EN 16313 (cone "Euro")

0.31 0.47 0.60 (5) **1184025**



for the connection to radiators with Rp $\frac{1}{2}$ female thread

0.31 0.47 0.60 (5) **1184035**

Design covers for "Multiblock TFU"



white (5) **1184092** chrome plated (5) **1184093**

"Multiblock TFU" for use on radiators with supply and return pipe connection.

Distance between pipe centres 50 mm.

To be used:

- for one or two pipe operation
- as thermostatic valve
- as isolating fitting
- for draining
- for filling
- as angle or straight pattern model (pivoting) allowing the connection of the thermostat on the right or left hand side

Application:

Central heating and cooling systems with closed circuits, for operation with non-aggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).

Max. operating pressure p_s : 10 bar (PN 10) Operating temperature t_s : 2 °C up to 120 °C (for short periods up to 130 °C)

Technical data as thermostatic valves "AV 9". kv-/kvs values valid for two pipe operation. Values for one pipe operation see "Technical information".

For the connection of copper, precision steel, stainless steel and plastic pipes as well as Oventrop composition pipe "Copipe", the Oventrop compression fittings are to be used, page 1.142.

Alternatively, the compression fittings of other manufacturers which are suitable for the connection to male thread G ¾ according to DIN EN 16313 (cone "Euro") may also be used.

For further information see "Technical information":



Connection sets "Multiblock TFU"/"Uni SH" for towel radiators (radiators with Rp 1/2 female thread)

Swivelling supply/return pipe connection

consisting of:

"Multiblock TFU" connection fitting with presetting, one/two pipe fitting Design cover

"Uni SH" Thermostat with liquid sensor

"SH-Cap"

white 1184135 chrome plated 1184235

Application:

Central heating and cooling systems with closed circuits, for operation with non-aggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).

Max. operating pressure: p_s : 10 bar (PN 10) Operating temperature t_s : 2 °C up to 120 °C (for short periods up to 130 °C)

"Uni SH":
with '0' setting,
temperature range 7–28 °C
graduation on cap 0 ☆ 1-5

White set:

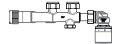
Thermostat "Uni SH" white/chrome plated

2017

Packing Article-No. Article unit

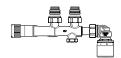
"Multiblock T-RTL"

Connection fitting for the combination of radiator and surface temperature balance, two pipe fitting, with presetting, isolating facility and integrated return temperature limiter, with soft seal, angle pattern, brass, nickel plated, including mounting aid



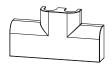
for the connection to radiators with G 3/4 male thread according to DIN EN 16313 (cone "Euro")

1184016



for the connection to radiators with Rp ½ female thread

1184086

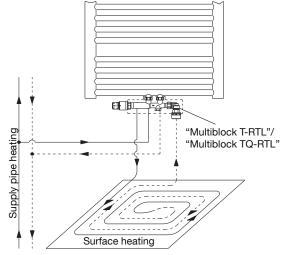


Design cover

for "Multiblock T-RTL" and "Multiblock TQ-RTL"

chrome plated 1184077 white 1184087

System illustration:



"Multiblock T-RTL" for simultaneous connection of radiators with supply and return connection and 50 mm distance between pipe centres as well as surface temperature balance.

For separate control of room and return temperature (limitation).

To be used:

- for two pipe operation
- as thermostatic valve at the radiator
- as isolating fitting at the radiator
- for surface temperature balance by use of a return temperature limiter

Application:

Central heating systems with closed circuits, for operation with non-aggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).

Max. operating pressure p_s: 10 bar (PN 10) Operating temperature t_s: 2 °C up to 70 °C

Technical data as thermostatic valves "AV 9".

For the connection of copper, precision steel, stainless steel and plastic pipes as well as the Oventrop composition pipe "Copipe", the Oventrop compression fittings are to be used, page 1.142.

Alternatively, the compression fittings of other manufacturers which are suitable for the connection to G 3/4 male thread according to DIN EN 16313 (cone "Euro") may also be used.

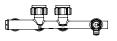
The supply and return connections must be strictly observed to guarantee a perfect function of the fitting.



Rosette cover

for "Multiblock T-RTL" and "Multiblock TQ-RTL"

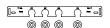
1189077 chrome plated white 1189087



Block for initial operation

for "Multiblock T-RTL" and "Multiblock TQ-RTL"

1184094



Mounting aid

for "Multiblock T-RTL" and "Multiblock TQ-RTL"

1189094

The surface circuit can be filled, drained, bled and leak tested with installed block for intitial operation.

Used for the pre-assembly and fixing of the pipes of the heating circuit and the surface heating.

1.k "Multiblock T/ T-RTL" Fittings for radiators with centre connection Connection sets "Multiblock T-RTL"/"Uni SH" Connection sets "Multiblock T-RTL"/"pinox H"

Hint

Article Article-No.

Connection sets "Multiblock T-RTL"/"Uni SH" for the combination of towel radiators (with Rp 1/2 female thread) and surface heating

Angle pattern

consisting of:

"Multiblock T-RTL" connection fitting with presetting, isolating facility and integrated return temperature limiter, two pipe fitting, including mounting aid Design cover "Uni SH" Thermostat with liquid sensor

"SH-Cap"

white 1184188 chrome plated 1184288

"Multiblock T-RTL" for simultaneous connection of radiators with supply and return connection and 50 mm distance between pipe centres as well as surface heating. For separate control of room and return temperature (limitation).

To be used:

- for two pipe operation
- as thermostatic valve at the radiator
- as isolating fitting at the radiator
- for surface temperature balance by use of a return temperature limiter

Application:

Central heating systems with closed circuits, for operation with non-aggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM

Max. operating pressure p_s: 10 bar (PN 10) Operating temperature t_s: 2 °C up to 70 °C Technical data as thermostatic valves "AV 9".

"Uni SH": with '0' setting

Temperature range: 7 - 28 °C Graduation on cap: 0 🌣 1 - 5

Connection sets "Multiblock T-RTL"/"pinox H" for the combination of towel radiators (with Rp 1/2 female thread) and surface heating



Angle pattern

consisting of:

"Multiblock T-RTL" connection fitting with presetting, isolating facility and integrated return temperature limiter, two pipe fitting, including mounting aid Design cover "pinox H" Thermostat with liquid sensor

1184189 white chrome plated 1184289

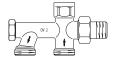
"pinox H": without '0' setting

Temperature range: 7 - 28 °C Graduation on cap: ☼1 - 5

1

1.I Valve sets, components and accessories for for two pipe heating systems

Page



1.I Valve sets, components and accessories for for two pipe heating systems

"Bypass-Combi Duo" two pipe with shut off	1.86
"Duo" Two pipe connection piece with shut off	1.86
Connection pieces	1.86
"Duo" Two pipe connection piece without shut off	1.87
Two pipe radiator valve with insertion tube with shut off	1.87
Valve for "TKM" system	1.87
Angle pattern fitting	1.87

2017 1.85

control / Hydronic balancing at the radiator

Room temperature and climate 1.I Valve sets, components and accessories for for two pipe heating systems "Bypass-Combi Duo" two pipe with shut off "Duo" Two pipe connection piece with shut off Connection pieces

kv kν Article at 1K at 2K kvs P-dev. P-dev.

Packing Article-No. unit

Hint

"Bypass-Combi Duo" two pipe with shut off comprising the following components:

Thermostatic valves "A"



Reversed angle pattern valve

DN 15 0.50 0.95 (25) 1181404



Double angle pattern valve Right hand side connection

0.95

(25) 1181393



Left hand side connection

DN 15 0.50

DN 15 0.50 0.95 1.35

(25)1181392



straight pattern valve with pipe elbow DN 15

0.50 0.95 1.35 1181304

1.35

0.36 0.67 1.00 (25)1184005 "AV 9"



Connecting pipe steel, chrome plated

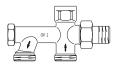
15 x 560 mm long 1016951 15 x 1120 mm long 1016953 15 x 2000 mm long 1016954



"Ofix CEP" Compression fittings

2-fold, for connecting pipe, metal to metal sealing

G ½ x 15 mm (50) 1016853



"Duo" Two pipe connection piece with shut off

DN 15 G 3/4 male thread (25) 1013361



"h" fitting without collar nut

nickel plated

Connection pieces

 $G \frac{1}{2} M \times G \frac{3}{4} M \times G \frac{3}{4} M$

(10)1028750



with collar nut

G ¾ F x G ¾ M x G ¾ M

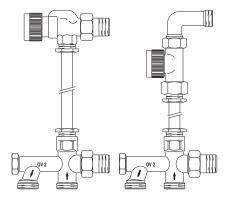
(10) 1028851

Valves / Valves for two pipe heating systems connection thread M 30 x 1.5 brass, nickel plated

Application:

Central heating and cooling systems with closed circuits, for operation with nonaggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).

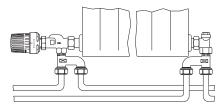
Max. operating pressure p_s: 10 bar (PN 10) Operating temperature t_s: 2°C up to 120°C (for short periods up to 130°C)



The male threads G ¾ according to DIN EN 16313 (cone "Euro") of the two pipe connection pieces "Duo" allow for the connection to copper, precision steel and plastic pipes as well as the Oventrop composition pipe "Copipe" by using the corresponding fittings, page 1.142.

Distance between pipe centres 50 mm.

The "h" fitting G ½ x G ¾ x G ¾ is suitable for the installation of plastic, precision steel, copper and Oventrop composition pipe "Copipe" in combination with all Oventrop thermostatic radiator and lockshield valves DN 15 (Rp 1/2 F), distance between pipe centres 50 mm.



Item no. 1028851 for the connection of valves with male thread G 3/4.

Thermostats from page 1.08.

"Unofix" System for refurbishment of one pipe heating systems: Pages 1.99, 3.54 Single fittings: Page 1.141

Room temperature and climate

1.I Valve sets, components and accessories for for two pipe heating systems

"Duo" Two pipe connection piece without shut off
Two pipe radiator valve with insertion tube with shut off
Valve for "TKM" systems

Thermostats from page 1.08.

<u> </u>								
	Article	kv at 2K P-dev.	Packinį unit	⁹ Article-No.	Hint			
	or with s with bras	Ü		Application: Central heating and cooling systems with closed circuits, for operation with nonaggressive, harmless fluids (e.g. water or				
	DN 15 N	A 24 x 1.5 M shut off	(25)	1182551	suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195). Max. operating pressure p _s : 10 bar (PN 10) Operating temperature t _s : 2 °C up to 120 °C			
					(for short periods up to 130 °C) Distance between pipe centres 35 mm.			
	with shut and infin	t off itely adjustable pr	` '	1182651				
	Compre	Compression fittings "Ofix" M 24 x 1.5: page 1.91.						
	Two pip	e radiator valve v	with insertion t	ube with shut off	Application: Central heating and cooling systems with closed circuits, for operation with nonaggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195). Max. operating pressure p _s : 10 bar (PN 10)			
					Operating temperature t _s : 2 °C up to 120 °C (for short periods up to 130 °C) The insertion tube is 150 mm long, Ø 11 mm, distance between pipe centres 50 mm.			
	with vert	ical insertion tube						
	DN 15 G	3/4 M 0.90		1183581	Marking: 2 grooves on the front face of the lateral isolating stem.			
	with hori	zontal insertion tu	be					
2 2	DN 15 G	¾ M 0.90		1643561	Marking "OV 2" on valve body.			
	Valve for	r "TKM" system		These valves are required for the connection of radiators of the "TKM" system.				
	Two pipe	e valve			The two pipe valve has an <u>anthracite</u> protection cap.			
	DN 15 G	3/4 M 0.90	(20)	1183661	Characteristic: 2 grooves on front face of the lateral isolating stem.			
	Angle pa	attern fitting			For the connection to G ¾ male thread according to DIN EN 16313 (cone "Euro").			
	G ¾ c/n	ut x G ¾ M	(10)	1189361	Thermostats from page 1.08			

control / Hydronic balancing at the radiator oventrop

Room temperature and climate

Isolation fittings

Tailpipe sets

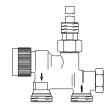
S-connection fitting, flat sealing

Page

1.94

1.95

1.95



1.m Valve sets, components and accessories for one pipe heating systems "Bypass-Combi Uno" one pipe 1.90 "Uno" One pipe connection piece 1.90 "Uno" One pipe connection piece M 24 x 1.5 1.91 "Ofix" Compression fittings M 24 x 1.5 1.91 "Cofit S" Compression fittings M 24 x 1.5 1.91 Plastic rosette cover 1.91 Radiator valve with insertion tube with fixed bypass and shut off 1.92 Valve for "TKM" system 1.92 Angle pattern fitting 1.92 Three-way conversion valves 1.93 Accessories 1.93

1.m Valve sets, components and accessories for one pipe heating systems
"Bypass-Combi Uno" one pipe
"Uno" One pipe connection piece

kv kv
Article at 1K at 2K kvs
P-dev. P-dev.

Packing Article-No.

Hin

"Bypass-Combi Uno" one pipe with infinitely adjustable bypass and shut off comprising the following components:

Thermostatic valves "A"



Reversed angle pattern valve

DN 15 0.50 0.95 1.35 (25) **1181404**



Double angle pattern valve Right hand side connection

Left hand side connection

DN 15 0.50 0.95 1.35 (25) 1181393



DN 15 0.50 0.95 1.35 (25) 1181392



straight pattern valve with pipe elbow DN 15

0.50 0.95 1.35 (25) **1181304** "A"



Connecting pipe steel, chrome plated

15 x 560 mm long	1016951
15 x 1120 mm long	1016953
15 x 2000 mm long	1016954

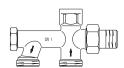


"Ofix CEP" Compression fittings

2-fold, for connecting pipe, metal to metal sealing

G ½ x 15 mm (50) **1016853**



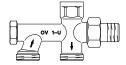


with radiator isolating fitting

DN 15 G ¾ male thread (25) 1013161

with brass fitting

DN 15 (25) **1013162** G ¾ male thread



reversed direction of flow with radiator isolating fittings

DN 15 (25) **1013164** G ¾ male thread

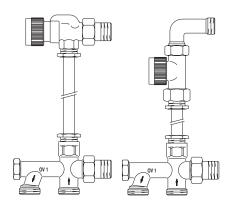
Valves / Valves for one pipe heating systems connection thread M 30 x 1.5 brass, nickel plated

Application:

One pipe central heating and cooling systems with closed circuits, for operation with non-aggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).

One pipe heating systems with outputs up to 8.000 Watt per circuit.

Max. operating pressure p_s : 10 bar (PN 10) Operating temperature t_s : 2 °C up to 120 °C (for short periods up to 130 °C)



The male threads G % according to DIN EN 16313 (cone "Euro") of the one pipe connection pieces "Uno" allow for the connection to copper, precision steel and plastic pipes as well as Oventrop composition pipes "Copipe" by using the corresponding fittings, page 1.141. Distance between pipe centres 50 mm.

A special radiator isolating fitting at the distributor, item no. 1013161, prevents even small capacity radiators from self convection heating.

Radiator share: 35 % (factory setting), adjustable between 20 and 50%. **Marking "OV 1" on valve body.**

With reversed direction of flow (return radiator side) compared with item no. 1013161 and 1013162

2017

Marking "OV 1-U" on valve body.

Thermostats from page 1.08.



1.m Valve sets, components and accessories for one pipe heating systems

"Ofix" Compression fittings M 24 x 1.5

"Cofit S" Compression fittings M 24 x 1.5

Plastic rosette cover

Packing Article-No. Article unit "Uno" One pipe connection piece M 24 x 1.5 without shut off with fixed bypass or with shut off and infinitely adjustable bypass with brass fitting DN 15 M 24 x 1.5 male thread without shut off (25) 1182051 with fixed bypass with shut off (25) 1182151 and infinitely adjustable bypass "Ofix" Compression fittings M 24 x 1.5 brass, collar nut nickel plated "Ofix K" 2-fold for plastic pipes, metal to metal sealing plus O-ring (10) 1016823 14 x 2 mm 16 x 2 mm (10) 1016824 "Ofix CEP" 2-fold for copper pipes according to DIN EN 1057, metal to metal sealing 15 mm (50) 1016813 "Cofit S" Compression fittings M 24 x 1.5 universal application for composition pipe and, provided similar preparation is used, for plastic pipes (PE-X pipes), 2-fold, metal to metal sealing plus O-ring, brass, collar nut nickel plated (10) 1507854 14 x 2 mm (10) **1507855** 16 x 2 mm Plastic rosette cover flat, distance between pipe centres 35 mm

14 - 16 mm

Application

be observed.

Hint

One pipe central heating and cooling systems with closed circuits, for operation with non-aggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).

One pipe heating systems with outputs up to 8.000 Watt per circuit.

Max. operating pressure p_s : 10 bar (PN 10) Operating temperature t_s : 2 °C up to 120 °C (for short periods up to 130 °C) Distance between pipe centres 35 mm. Radiator share: 50 %

Attention: When installing copper pipes with a wall thickness of ≤ 1 mm, it is necessary to use reinforcing sleeves for the additional stabilisation of the pipe. Should the wall thickness exceed 1 mm, please contact the pipe manufacturer. Reinforcing sleeves for wall thickness = 1 mm, see page 1.143. Note: The pipes are not held by the soft sealing fitting, they have to be fixed additionally. Regarding stretching of the pipe ends, the instructions of the pipe manufacturers have to

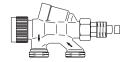
Pipework connection systems: Pages 1.140, 3.45

(25) 1016684

1.m Valve sets, components and accessories for one pipe heating systems
Radiator valve with insertion tube with fixed bypass and shut off
Valve for "TKM" system
Angle pattern fitting

Article at 1K at 2K kvs Packing Article-No. Hint P-dev. P-dev.

Radiator valve with insertion tube with fixed bypass and shut off



with horizontal insertion tube

DN 15 1.50 1.80 2.60 **1183561** G ¾ male thread

Application:

One pipe central heating and cooling systems with closed circuits, for operation with non-aggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).

Max. operating pressure p_s : 10 bar (PN 10) Operating temperature t_s : 2 °C up to 120 °C (for short periods up to 130 °C)

The fixed bypass of the radiator valves with insertion tube is adjusted to a radiator flow share of 35 % (factory setting) at 2K P-deviation.

The insertion tube is 150 mm long, \varnothing 11 mm, distance between pipe centres 50 mm.



with vertical insertion tube

DN 15 1.50 1.80 2.20 **1183571** G ¾ male thread

The one pipe radiator valve with vertical insertion tube is especially suitable for towel radiators. (The technical instructions of the radiator manufacturers have to be observed.)



Valve for "TKM" system

One pipe valve

DN 15 1.22 1.50 1.80 (20) **1183671** G ¾ male thread

Radiator share: 50 %

The valves are required for the connection of radiators of the "TKM" system.

The one pipe valve has an <u>orange</u> protection



Angle pattern fitting

G ¾ c/nut x G ¾ M (10) 1189361

For the connection to G $3\!\!\!/\!\!$ male thread according to DIN EN 16313 (cone "Euro").

Thermostats from page 1.08.

1.m Valve sets, components and accessories for one pipe heating systems
Three-way conversion valves
Accessories

Hint

	Article	Packing unit	Article-No.
	Three-way conversion valves connection thread M 30 x 1.5 bronze/brass, nickel plated, with presetting		
	DN 15 Left hand side connection	(25)	1180584
	DN 15 Right hand side connection	(25)	1180585
	DN 20 Left hand side connection	(25)	1180586
	DN 20 Right hand side connection	(25)	1180587
	Accessories		
	Presetting key with pocket		
	for three-way conversion valve with presetting		1010599
	Fittings, flat sealing – to the radiator –		
	DN 15 (R ½ male / collar nut G ¾ female)	(25)	1019394
	DN 20 (R ½ male / collar nut G 1 female)	(25)	1019396
	- to the bypass pipe -		
	DN 15 (G ½ female / collar nut G ¾ female	,	1019384
_	DN 20 (G ¾ female / collar nut G 1 ¼ female	(25) ıle)	1019386
	- to the pipework - DN 15	(05)	1010274
	(weldable tailpipe / collar nut G ¾ for DN 20 (weldable tailpipe / collar nut G 1 fe	(25)	1019374
	Isolating fitting, flat sealing 45 mm		
	DN 15	(25)	1016194
	(G ¾ male / collar nut G ¾ female) DN 20 (G 1 male / collar nut G 1 female)	(25)	1016196
	Compensating fittings, flat sealin 45 mm	g	
<u>. </u>	DN 15 (G ¾ male / collar nut G ¾ female)	(25)	1016394
	79 mm		
	DN 15 (G ½ male / collar nut G ¾ female)	(25)	1019194
	DN 20 (G ½ male / collar nut G 1 female)	(25)	1019196

Three-way conversion valves and accessories

for the conversion of vertical one pipe heating systems to thermostatic systems.

The Oventrop three-way conversion valves have the same dimensions as the manual radiator valves according to TGL 43191 (models A, B, C, D).

Application:

One pipe entral heating and cooling systems with closed circuits, for operation with non-aggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).

Max. operating pressure p_s : 16 bar (PN 16) Operating temperature t_s : 2 °C up to 120 °C (for short periods up to 130 °C)

One pipe systems with top and bottom connection at the radiator may experience a slight warming up of the radiator even with the valves being closed, all depending on the size of the radiator, the type of radiator and the flow temperature. This warming up is system related and cannot be eliminated by using thermostatic radiator valves. Isolation fittings to reduce this warming up: page 1.94.

All three-way conversion valves have a <u>yellow</u> protection cap, the gland nut has a <u>yellow</u> marking since end of 1993.

For further information see "Technical information":



2017 1.93

1.m Valve sets, components and accessories for one pipe heating systems **Isolation fittings**

Old model.

Article

Packing Article-No.

Hint



Connection sets

The connection set with bypass consists of a full exchange pack of all the fittings required in front of the radiator. These components are required in combination with the three-way conversion valves and isolating fittings.

Centre distance 552 mm DN 15	1010558
Centre distance 552 mm DN 20	1010559
Centre distance 992 mm DN 15	1010568
Centre distance 992 mm DN 20	1010569

Valve insert with presetting

suitable for three-way conversion valves with connection thread M

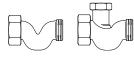
(25) 1017056

Isolation fittings

30 x 1.0

to reduce heat transfer between valve/T-piece and radiators of vertical one pipe installations.

The isolation fittings are supplied as a set for the top and the bottom connection of the radiator.



Isolation loop and shut off set

DN 15

(25) 1016284

(G 3/4 collar nut x G 3/4 male thread) **DN 20**

(25) 1016286

(G 1 collar nut x G 1 male thread)

The isolation loop and shut off set are suitable for radiators with welded fitting.



Isolation tailpipe (set)

(reduced dimension - tailpipe and collar nut)

DN 15

1016295 (25)

(G ¾ collar nut x G ½ male thread) **DN 20**

1016297

(G 1 collar nut x G ½ male thread)



Isolation-compensation-shut off set

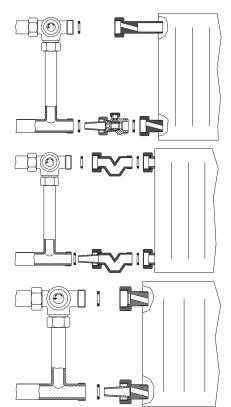
DN 15

(25) 1016254

(G ¾ collar nut x G ½ male thread)

DN 20 (G 1 collar nut x G 1/2 male thread) 1016256

Refer to installation instructions.



The conversion from manual to thermostatic radiator valves and the installation of all a. m. components should be supervised by a qualified design engineer or plumber.

oventrop

Room temperature and climate control / Hydronic balancing at the radiator

1.m Valve sets, components and accessories for one pipe heating systems
S-connection fitting, flat sealing
Tailpipe sets

Article Packing Article-No. Hint

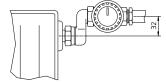


S-connection fitting, flat sealing

including radiator tailpipe (G ¾ collar nut x R ½ male thread)

DN 15 \$(10)\$ M male thread x G % collar nut) \$(10)\$ 1019497

(G ¾ male thread x G 1 collar nut)



The S-connection fitting is suitable for the replacement of radiators using existing pipework. The max. distance between pipe centres is 2 x 32 mm = 64 mm.

Tailpipe sets

DN 20

(2 pieces each)

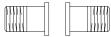


Set 5 = 2 weldable tailpipes



(10) **1060592** (10) **1060593**

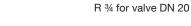
(10) **1019498**



Set 7 = 2 male threaded tailpipes

R ½ for valve DN 15

(10) **1061492** (10) **1061493**



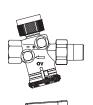
Set 8 = 2 female threaded tailpipes

Rp $\frac{1}{2}$ for valve DN 15 Rp $\frac{3}{4}$ for valve DN 20

(10) **1061392** (10) **1061393**

Page

1

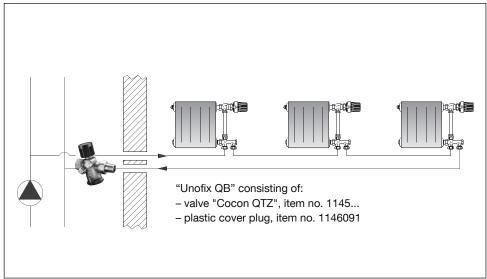


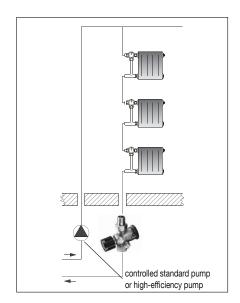
1.n "Unofix" Refurbishment of one pipe heating systems Content

System illustrations	1.98
"Cocon QTZ" Pressure independent control valves PN 16	1.99
"Aktor T" Electrothermal actuators	1.99
Accessories	1.100

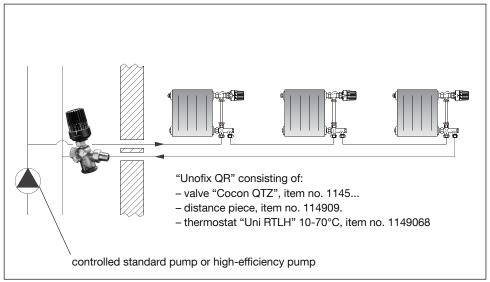
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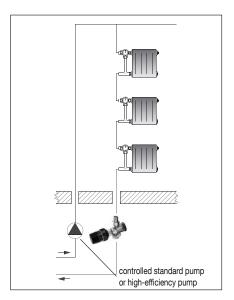
System illustrations



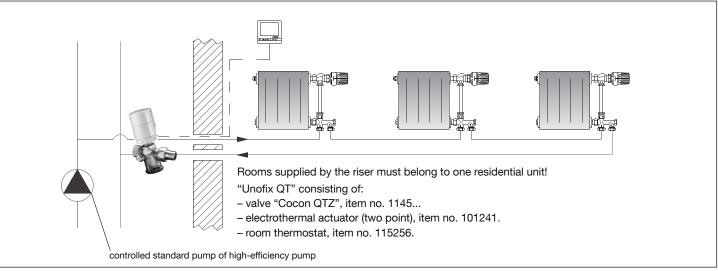


System illustration "Unofix QB"





System illustration "Unofix QR"



System illustration "Unofix QT"

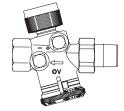


Article	Control	Packing Article-No.	Hint
AITICIE	range	unit Article-No.	I III IL

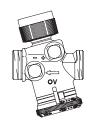
"Cocon QTZ" Pressure independent control valves PN 16 connection thread M 30 x 1.5

both ports connections for measuring technique "classic" (closed with blind plugs)

Inlet port: coupling, outlet port: female thread



DN 15	30 - 210 l/h	(10)	1145504°
DN 15	90 - 450 l/h	(10)	1145604°
DN 15	150 - 1050 l/h	(10)	1145704°
DN 20	150 - 1050 l/h	(10)	1145506°
DN 20	180 - 1300 l/h	(10)	1145606°



both ports with connections for "classic" measuring technique (closed with blind plugs) both ports male thread

1145563°	(10)	30 - 210 l/h	DN 10
1145663°	(10)	90 - 450 l/h	DN 10
1145564°	(10)	30 - 210 l/h	DN 15
1145664°	(10)	90 - 450 l/h	DN 15
1145764°	(10)	150 - 1050 l/h	DN 15
1145566°	(10)	150 - 1050 l/h	DN 20
1145666°	(10)	180 - 1300 l/h	DN 20

The system is used for the refurbishment of one pipe heating systems with horizontal or vertical heating circuits.

Application:

Central heating and cooling systems with closed circuits, for operation with non-aggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).

Max. operating pressure p_s: 16 bar (PN 16)

Max. operating pressure p_{s} : 16 bar (PN 16) Operating temperature t_{s} : -10 °C up to +120 °C

Oventrop pressure indepedent control valves "Cocon QTZ" control the room temperature with the help of actuators or limit the return temperature with the help of the thermostat "Uni RTLH" (with distance piece item no. 114909.) The max. flow rate is set to the required nominal value and is constantly maintained within the necessary proportional band.

All valves DN 15 and DN 20 are suitable for the installation with copper pipes.

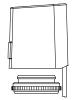
Model one port with coupling, one port with female thread:

Compression fittings page 1.140, reinforcing sleeves page 1.143.

Model both ports male thread: DN 10: G ½ male threaded connection, flat sealing DN 15: G ¾ male threaded connection for compression fittings "Ofix", pages 1.140, 1.141 and 1.143. With insert item no. 1661100 (page 1.125) suitable for flat sealing tailpipes. DN 20: G 1 male threaded connection for compression fittings, page 9.31. With insert item no. 1650793 (page 3.59) suitable for flat sealing tailpipes.

Further models page 3.54.

"Aktor T" Electrothermal actuators



"Aktor T 2P" Electrothermal actuators (two point) connection thread M 30×1.5

"H NC", closed with current "off", 230 V 1012415
"L NC", closed with current "off", 24 V 1012416

Oventrop electrothermal actuators are used for heating, ventilation and air conditioning. The actuators serve to control the room temperature and can be used e. g. with conventional radiators, radiators with integrated distributor, radiant ceiling panels, chilled ceiling systems and induction air systems in combination with two point room thermostats.

Further applications in bivalent heating installations.

Connecting cable 1 m.

With "First-Open" function and stroke index. Simple plug-in connection with valve adapter. Actuators can be installed in any position. Due to their construction, the electrothermal actuators are secured against overvoltage which could occur when switching on neon tubes. A varistor is thus not necessary.

Tailpipe sets: Page 3.58 Flexible hoses: Page 3.62

Combination possibilities of valves and actuators: Page 3.08

Article Packing Article-No. Hint

(40)

1152562

"Uni RTHL" Thermostat connection thread M 30 x 1.5

anthracite (10) 1149068

With '0' setting, may be limited or locked. Temperature range: 10° C - 70 °C

The thermostats "Uni RTLH" may also be used in combination with the pressure independent control valves "Cocon QTZ" (with distance piece 114909.) for the limitation of the return temperature in one pipe risers.

Room thermostat - flush mounting digital

230 V (40) **1152561**

With LCD display and adjustable timed programme.

Temperature range: 5 °C up to 35 °C

Operating current range (item no. 1152561): 100 up to 230 V AC

Heating:
Use electrothermal actuators (two point)
"closed with current off" (terminal "NC") or
"open with current off" (terminal "NO").

Accessories

24 V



Plastic cap (10) **1146091** connection thread M 30 x 1.5

Cap for the protection of the control unit at full lift position. Is required if no actuator has been mounted.



Distance piece (10) **1149090** with fixed minimum piston stroke

Distance piece for the optimisation of the return temperature in one pipe heating systems. Especially advantageous when using condensing appliances or for district heating systems. The distance piece is installed between the "Cocon QTZ" DN 10 up to DN 32 and the thermostat "Uni RTLH". A minimum flow rate of about 20% of the max. adjustable nominal value is maintained.



Distance piece (10) **1149091** with adjustable minimun piston stroke

Minimum piston stroke infinitely adjustable, with recognition of the closing dimension. The required minimum flow rate can be set with the help of the scale.

Can be used for "Cocon QTZ" DN 10 up to DN 20.

Page

1.o Valve inserts for radiators with integrated distributor

Valves inserts with "Q-Tech"1.102Valve inserts (M 30 x 1.5)1.104Valve inserts (squeeze connection)1.106

2017

Article Article-No. Hint

Valves inserts with "Q-Tech"

the radiator

Room temperature and climate control / Hydronic balancing at

for automatic hydronic balancing, infinitely adjustable presetting, with G $1\!\!/\!_2$ male thread and thermostat connection M 30 x 1.5 (in preparation)



GHQ 1019080 with front connection



GHQ 1019083

with internal O-ring



GHQ 1019082

with seat diameter 16 H 11

Application:

Central heating systems with closed circuits, for operation with non-aggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).

Max operating pressure: p_s : 10 bar (PN 10) Operating temperature t_s : 2 °C up to 110 °C Flow range: 10 - 170 l/h

Function:

The valve inserts with "Q-Tech" are combined control and regulating inserts which are used for room temperature control in combination with thermostats with liquid sensor or actuators. The max. flow rate is set to the required nominal value and is constantly maintained within the necessary proportional band.

The valve inserts are designed for the installation into the valve bodies of integrated distributors (e.g. panel radiators).

Presetting is carried out by using the presetting key supplied with the valve inserts.

The valve inserts "GHQ" are not suitable for steam installations.

All valve inserts "GHQ" have a <u>light grey</u> protection cap.

Please observe installation instructions!

The valve insert item no. 1019080 is suitable for the radiator types, e.g.:

- Arbonia
- DiaNorm¹
(up to 2002)
- Baufa
- Dia-therm

- Dia-therm - Radson¹
- HM-radiator - Rettig¹
- Hoval - Runtal

- Purmo¹

- Demrad - Manaut

¹(up to end of 2010)

The valve insert item no. 1019083 is suitable for the radiator types, e.g.:

- Caradon - He

- Henrad - Schäfer

- DURA- Ferroli/IMA- Fugman- Superia (since 2005)- Thor (since 2005)

(since 2013)

- Vasco

- bremo

- DEF

The valve insert item no. 1019082 is suitable for the radiator types, e.g.:

- De Longhi -Ribe

- Veha -Brugman (up to 2013) (Suject to technical modifications of the radiator manufacturers)

1.o Valve inserts for radiators with integrated distributor Valves inserts with "Q-Tech"

Article	Article-No.	Hint	
Thermostat connection: squeeze connection	Thermostat connection: squeeze connection		
GDQ with front connection	1019099*	The valve insert item no. 1019099 is suitable for the radiator types, e.g.:	
		- Arbonia - DiaNorm¹ - Baufa (up to 2002) - bremo - Dia-therm- Radson¹ - HM-Heizkörper- Rettig¹ - DEF - Hoval - Runtal - Demrad - Manaut - Purmo¹ ¹(up to end of 2010)	
GDQ with internal O-ring	1019084*	The valve insert item no 1019084 is suitable for the radiator types, e.g.: -Brötje (since 2003)-Ferroli/IMA-Schäfer -Caradon -Henrad -Superia -DURA -Korado -Brugmann (since 2013)	
GDQ with seat diameter 16 H 11	1019086*	The valve insert item no. 1019086 is suitable for the radiator types, e.g.: -De Longhi -Thor -Brugmann (up to 2013) -Ribe -VEHA -Brötje (since approx. 1994 up to approx. 2003) (Subject to technical modifications of the radiator manufacturers)	

2017 *New in catalogue 2017 1.103

oventi	rop
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	KV	KV		Dealing	
Article	at 1K P-dev.	at 2K P-dev.	kvs	Packing Article-No. unit	Hint

Valve inserts (M 30 x 1.5)

the radiator



GH with 6 presetting positions with G 1/2 male thread and thermostat connection M 30 x 1.5 with front connection Protection cap: white

Brass	0.35	0.70	1.05	(25)	1018080
	0.35	0.70	1.05	(25)	1018280

Stainless steel



GHF with fine presetting with G 1/2 male thread and thermostat connection M 30 x 1.5 with front connection Protection cap: red

> 0.20 1018090 0.32 0.37



GH with 6 presetting positions with G 1/2 male thread and thermostat connection M 30 x 1.5 with front connection Protection cap: white

> 0.35 (25) 1648077 0.63 1.00



with 6 presetting positions with G 1/2 male thread and thermostat connection M 30 x 1.5 with seat diameter 16 H 11 Protection cap: white

0.35 0.70 1.05 1018082 Brass 0.35 1018282 0.70 1.05 (25)

Stainless steel model



GHF with fine presetting with G 1/2 male thread and thermostat connection M 30 x 1.5 with seat diameter 16 H 11 Protection cap: red

> 0.20 0.32 (25) 1018097 0.37

Application:

Central heating systems with closed circuits, for operation with non-aggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM

Max. operating pressure p_s: 10 bar (PN 10) Operating temperature 2 °C bis 120 °C (for short periods up to 130 °C) Flow temperature up to 120 °C. The valve inserts are designed for the installation into the valve bodies of integrated distributors (e. g. panel radiators). The valve inserts are presettable to suit the hydronic requirements of the heating system. The hydronic values of the valve inserts GH correspond to the values of the inserts of the company Heimeier.

The valve inserts are suitable for the thermostats "Uni XH", "Uni XHM", "Uni XHT", "Uni LH", "Uni LHB", "Uni LHZ", "Uni SH", "Uni CH", "vindo TH" and "pinox H" (pages 1.08 - 1.11).

Attention: Filling and draining of the system before the valves are preset and the thermostat is mounted.

Please observe installation instructions!

The valve inserts item no. 1018080, 1018280, 1018090 and 1648077 are suitable for the radiator types, e.g.:

-Arbonia (up to 2002)-DiaNorm1 -Purmo1 -Baufa -Dia-therm -Radson1 -bremo -HM-Heizkörper-Rettig1 -DEF -Hoval -Runtal

-Demrad -Manaut

1(up to end of 2010)

Is used for reversed supply and return pipe. Attention: The radiator output can be reduced when using this insert.

The valve inserts item no. 1018082, 1018282 and 1018097 are suitable for the radiator types, e.g.:

-De Longhi -VEHA

-Ribe

(Subject to technical modifications of the radiator manufacturers)

1.o Valve inserts for radiators with integrated distributor Valve inserts (M 30 x 1.5)



kν Packing Article-No. at 2K Article at 1K kvs unit P-dev. P-dev.

Hint

GH with 6 presetting positions with G 1/2 male thread and thermostat connection M 30 x 1.5 with internal O-ring Protection cap: white

0.35 0.70 1.05 (25) 1018083 Brass 0.35 0.70 1018283

1.05

(25)

Stainless steel

The valve inserts item no. 1018083, 1018283 and 1018098 are suitable for the radiator types, e.g.:

-Caradon -Henrad -Schäfer -DURA -Korado -Superia (since 2005) -Ferroli/IMA -Brugman -Thor (since 2005) (since 2013) -Vasco

(Subject to technical modifications of the radiator manufacturers)



GHF with fine presetting with G 1/2 male thread and thermostat connection M 30 x 1.5 with internal O-ring Protection cap: red

> 0.20 0.32 0.37 1018098

(10) 1183961 Presetting key for valves "AV 6, ADV 6, RFV 6, E", fittings "Multiblock T/TU/TFU/T-RTL" (manufactured up to 2015) and valve inserts GH

The presetting value can be adjusted with the help of the marking on the hexagon of the valve insert.

The presetting key fits only in one position.



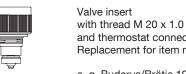
Alternatively, presetting can also be carried out with a spanner sized 13 mm.



Presetting key

for thermostatic valves "AF" and valve inserts GHF

1180791 with pocket



and thermostat connection M 30 x 1.5 Replacement for item no. 1879800 (M 30 x 1.0)

e. g. Buderus/Brötje 1982 - 1986 (25) 1879850

Further valve inserts for other types of radiators are prepared or are available on request.

Attention: Filling and draining of the system before the valves are preset and the thermostat is mounted.

1.o Valve inserts for radiators with integrated distributor Valve inserts (squeeze connection)

radiator manufacturers)

J	the radiator						Valve inserts (squeeze connection)		
	Article	kv at 1K P-dev.	kv at 2K P-dev.	kvs	Packin unit	^g Article-No.	Hint	_	
	GD with 8 p with G and squ with from Protect	oresetting ½ male to ueeze co ont connection cap: 0.32	ennection ection white 0.63	1.05	(25)	1018099	Application: Central heating systems with closed circuits, for operation with non-aggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195). Max. operating pressure p _s : 10 bar (PN 10) Operating temperature 2 °C bis 120 °C (for short periods up to 130 °C) The valve inserts are designed for the installation into the valve bodies of integrated distributors (e.g. panel radiators).		
	with ex with se	ternal O-	ter 16 H		(25)	1018086	hydronic requirements of the heating system. The hydronic values of the valve inserts GD correspond to the values of the inserts of the competitors. The valve inserts are suitable for the thermostats "Uni XD", "Uni LD", "vindo TD"		
	with G and squ with ex with se	½ male t ueeze co ternal O-	nnection ring ter 16 H				and "pinox D" (pages 1.13 - 1.14). Presetting of the valve inserts GD and GDF is carried out by hand. Attention: Filling and draining of the system before the valves are preset and the thermosta is mounted. Please observe installation instructions!		
	with G and squ with int	½ male t	nnection ring		(25)	1018096	The valve insert item no. 1018099 is suitable for the radiator types, e.g.: -Arbonia (up to 2002)-DiaNorm¹ -Purmo¹ -Baufa -Dia-therm -Radson -bremo -HM-Heizkörper-Rettig¹ -DEF -Hoval -Runtal -Demrad -Manaut ¹(up to end of 2010)		
	with G and squ with int	½ male t	nnection ring		(25)	1018084	The valve inserts item no. 1018086 and 1018096 are suitable for the radiator types, e.g.: -De Longhi -Thor -Brugmann (up to 2013) -Ribe -VEHA -Brötje (since approx. 1994 up to approx. 200) The valve inserts item no. 1018084 and		
		0.14	0.24	0.47	(25)	1018094	1018094 are suitable for the radiator types, e.g.: -Brötje (since -Ferroli/IMA-Schäfer 2003) -Caradon -Henrad -Superia (since 2005) -DURA -Korado -Brugmann (since 2013) -Vasco (Subject to technical modifications of the radiator manufacturers)	е	

Page

1

1.p Valve inserts

Content

Valve inserts for valves with connection thread M 30 x 1.5

Valve inserts for valves with connection thread M 30 x 1.0
(for valves manufactured up to 1998)

1.108

2017 1.107

Article kv Packing Article-No. H
P-dev. Packing Article-No.

(100) 1187047#

Valve inserts for valves with connection thread M 30 x 1.5

All valve inserts are replaceable with the help of the special tool "Demo-Bloc" without draining the system. Valve inserts for radiators with integrated distributors page 1.104.

Also for "Hycocon ETZ" (manufactured since 2016).

Also for "Hycocon ETZ" (manufactured up

to 2015 inclusive).

"AV 6. RFV 6. E" and

"AV 9, CV 9, RFV 9, E"

"Multiblock T-RTL" (manufactured up to 2015)

0.67

and "Multiblock T-RTL" (manufactured since 2016)

0.65 (100) 1187057#

"A, RF" (DN 10 - DN 15, manufactured since 2015)

0.95 (100) **1187059**#

"A" (manufactured since 2013) and "RF" (manufactured since 2014)

1.00 - 1.10 (100) **1187049**#

"A" (DN 10 - DN 15) and "RF"

0.95 (100) **1187069**°#

These valve inserts are suitable for all valve bodies with connection thread M 30 x 1.5 of all sizes of the thermostatic valves "A, AV 9, AQ, AV 6, ADV 9, ADV 6, CV 9, E, EQ, AF, RF, RFV 9, RFQ and RFV 6".

"A" (DN 20 - DN 32) and "AZ"

1.10 (100) **1187060°**#

"AF"

0.32 (100) **1187352**#

Distinctive features of the valves:

Series	Protection cap	Gland nut (since end of 1993)
Α	black	unplated brass
ADV 6	grey-green	grey-green
ADV 9	grey-green (3 frontal lugs)	grey-green
AF	red	red
AQ/ EQ/ RFQ	light grey	
AV 9/ CV 9/ E	white (3 frontal lugs)	
AZ H	orange	
AZ V	green	
RF	blue	unplated brass
RFV 9	light green (3 frontal lugs)	



for thermostatic valves "AQ, RFQ, EQ", fittings "Multiblock TQ, TQ-RTL", and "Unibox TQ, Q plus"

"QA" (25) **1187065**#

Replacement filter mesh for valve insert "QA"

Set = 10 remplacement filter meshes 1187090*

1.108 *New in catalogue 2017 °to be discontinued 2017

OVENTROP Room temperature and climate control / Hydronic balancing at the radiator

1.p Valve inserts Valve inserts for valves with connection thread M 30 x 1.5 $\,$

Article	kv at 2K P-dev.	Packing unit	Article-No.	Hint
"ADV 6"	0.65	(100)	1186001#	The double function of the "ADV 6" and "ADV 9" inserts provokes an automatic closing of the valve to 5 % of the nominal flow (frost protection) should the thermostat be removed or destroyed. Presetting as "AV 6" and "AV 9".
"ADV 9"	0.67	(100)	1186002#	
"PTB" and "Cocc kvs = 0.45 P1 kvs = 1.0 P2 kvs = 1.8 P3	on 2TZ"	(100)	1186052# 1186053# 1186054	
with stainless ste		(100)	1186200#	
Valve insert for the with presetting	ree-way conversion		1187056	For three-way conversion valve item no. 1180584/85/86/87.
"Combi LR" with	сар	(100)	1187071	
	0.45	(100)	1187070#	
Special valve inse	ert for reversed su	pply an	d return pipe	As replacement for: - "Multiblock T/TU/TFU"
"AV6U" "AV9U"	0.52 0.57		1187077° 1187078	 "Unibox E T" "Unibox E plus" "Unibox E BV" In case of reversed direction of flow for: "Unibox TQ" "Unibox plus" (connection for room temperature control) "Unibox vario" (connection for room temperature control) "Unibox Q plus" (connection for room temperature control)
ADV 9, ADV 6, A0		ınufactı	V 6, CV 9, E, RFV 9, RFV 6, ured since 2013), RF	Suitable for M 30 x 1.5 and M 30 x 1.0.
Wrench size 14 n Set = 5 pieces	nm	(10)	1017501	

oventrop cor

Room temperature and climate control / Hydronic balancing at the radiator

Article	kv at 2K P-dev.	Packing Article-No.	Hint
	P-dev.		



Presetting key (10) 1183961

for valves "AV 6, ADV 6, RFV 6, E", fittings "Multiblock T/TU/TFU/T-RTL" (manufactured up to 2015) and valve inserts GH

The presetting value can be adjusted with the help of the marking on the hexagon of the valve insert.

The presetting key fits only in one position.



Alternatively, presetting can also be carried out with a spanner sized 13 mm.

Valve inserts for valves with connection thread M 30 x 1.0 (for valves manufactured up to 1998)



"AZ"

"F"

1.10

(100) 1017060+



"A, E and RF"

(50) 1017069+



"AV 6 and RFV 6"

0.65

0.95

(25) 1017057+



0.32

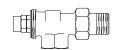
(10) **1017351**

Also suitable for Ista radiator valves. Illustration of distinctive features: page 1.144.

+ These valve inserts are suitable for all valve bodies with connection thread M 30 x 1.0 of all sizes of the valves "A, AV 6, ADV 6, AZ, E, RF and RFV 6".

Page

OVENTROP Room temperature and climate control / Hydronic balancing at the radiator



1.q Return temperature limiters

Content	
Return temperature limiter valves for thermostat "Uni RTLH"	1.112
Thermostat "Uni RTLH"	1.112
Thermostat "Uni RTL"	1.112
Valve inserts	1.112
Extension	1.112
Gland nut	1.112
Return temperature limiter sets	1.113

Room temperature and climate oventrop control / Hydronic balancing at the radiator

Ventiop	the radiate	or			Thermostat "Uni RTL"	
	Article	kv at 2K P-dev.	Packing unit	Article-No.	Hint	
		perature limiter va hread M 30 x 1.5 I plated	alves for th	Application: Central heating systems with closed circuits, for operation with non-aggressive, harmless fluids (e.g. water or suitable water		
	Reversed ar	igle pattern valve f	or the returr	n pipe	and glycol mixtures according to VDI 2035/ ÖNORM 5195). Combined radiator/surface heating.	
		0.30 0.30	(25) (25)	1024363 1024364	Max. operating pressure p _s : 10 bar (PN 10)	
	Straight patt	ern valve for the re	eturn pipe		Valve insert with double disc prevents inadvertent overheating, with frost protection.	
		0.30 0.30	(25) (25)	1024463 1024464	Compression fittings page 1.140, reinforcing sleeves page 1.143.	
		" Uni RTLH" hread M 30 x 1.5			With '0' setting, may be limited or locked.	
1 E 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	white chrome plate	ed	(25) (25)	1027165 1027172	Temperature range: 10 °C-40 °C factory setting (return temperature), may be increased to 50 °C by cancelling the limitation (40 °C).	
	anthracite		(10)	1149068	With '0' setting, may be limited or locked. Temperature range: 10° C - 70° C The thermostats "Uni RTLH" may also be used in combination with the pressure independent control valves "Cocon QTZ" (with distance piece 114909.) for the limitation of the return temperature in one pipe risers.	
	Thermostat	" Uni RTL" hread M 30 x 1.0			With '0' setting, may be limited or locked. RTL valves with connection thread	
7 E Z I	white		(25)	1027100	M 30 x 1.0 are no longer produced.	
	Valve insert	s				
	for return flo connection t	w valves hread M 30 x 1.5	(100)	1026981	Valve insert with double disc. Prevents inadvertent overheating, with frost protection.	
	Extension L = 20 mm					
	for RTLH va	ives	(10)	1022699	For "Unibox RTL", "Unibox vario", "Unibox TQ" and "Unibox Q plus".	
	Gland nut					

Gland nut for all RTLH valves



Set = 5 pieces (10) **1026986**

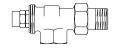


Room temperature and climate control / Hydronic balancing at the radiator

1.q Return temperature limiters Return temperature limiter sets

kv
Article at 2K Article-No. Hint
P-dev.

Return temperature limiter sets



Reversed angle connection consisting of:

Reversed angle pattern valve for the return pipe and thermostat "Uni RTLH"

DN 15 0.30 **1028364**

Packed as a set.
Valve and thermostat RTLH.
Temperature range:
10 °C-40 °C factory setting (return temperature), may be increased to 50 °C by cancelling the limitation (40 °C).

Straight pattern connection consisting of:

Straight pattern valve for the return pipe and thermostat "Uni RTLH"

DN 15 0.30 1028464

2017 1.113

OVENTROP Room temperature and climate control / Hydronic balancing at the radiator

1.r Manual radiator valves Content Manual radiator valves "HRV" Manual radiator valves "HR"

Page



Room temperature and climate oventrop control / Hydronic balancing at the radiator

1.r Manual radiator valves Manual radiator valves "HRV" Manual radiator valves "HR"

·	Article	kvs	Packing unit	g Article-No.	Hint
$(\ \) \)$	Manual radiato presetting by us manual head wh Angle pattern va	sing the stem nite			Application: Central heating and cooling systems with closed circuits, for operation with nonaggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).
	DN 10 DN 15 DN 20	3.20 3.20 3.20	(25)	1191503 1191504 1191506	Max. operating pressure p_s : 10 bar (PN 10) Operating temperature t_s : 2 °C up to 120 °C (for short periods up to 130 °C) Steam 0.5 bar, 110 °C.
	reduced dimens DN 10 DN 15 DN 20	3.20 3.20 3.20 3.20	(25) (25)	res "RF" 1194503 1194504 1194506	Lenghts according to DIN EN 215. The protection cap (as delivered) protects the handwheel against damages. The manual radiator valve is suitable for subsequent conversion to thermostatic operation by replacing the manual head.
	Straight pattern DN 10 DN 15 DN 20	valve 1.70 1.70 2.30	(25)	1191603 1191604 1191606	The valves are suitable for installation with copper pipes. Compression fittings page 1.140, compression
	reduced dimens DN 10 DN 15 DN 20	1.70 1.70 2.30	(25) (25)	res "RF" 1194603 1194604 1194606	fittings for valves with reduced dimensions page 3.45, reinforcing sleeves page 1.143. Valves with reduced dimensions are not suitable in combination with the female threaded compression fittings "Cofit S".
	Manual radiato white handwhee				No subsequent conversion to thermostatic operation.
VV	Angle pattern va DN 10 DN 15 DN 20	alve 1.45 1.45 1.45	(25) (25) (25)	1190503 1190504 1190506	Lengths according to DIN 3842. Protection cap (as delivered) protects the handhweel against damages. For further information see
	Straight pattern DN 10 DN 15 DN 20	valve 1.20 1.20 1.20	(25) (25) (25)	1190603 1190604 1190606	"Technical information":
	Straight pattern DN 15	valve 1.20		1190654°	

"Multiflex FQ" Fittings for G ¾ male thread

1

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1.118

1.118

oventrop control / Hydronic balancing at the radiator

1.s "Q-Tech" Fittings for automatic hydronic balancing "Multiflex FQ" Fittings for G ½ female thread

Room temperature and climate control / Hydronic balancing at oventrop the radiator

1.s "Q-Tech" Fittings for automatic hydronic balancing "Multiflex FQ" Fittings for G ½ female thread "Multiflex FQ" Fittings for G ¾ male thread

Article

Packing Article-No. unit

Hint

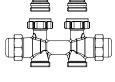
"Multiflex FQ" Fittings for G 1/2 female thread

brass connection fitting with "Q-Tech" for automatic hydronic balancing, soft sealing, flat sealing, nickel plated, for radiators with integrated distributor G 1/2 female thread



G 1/2 male x G 3/4 male

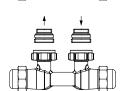
1015873*



Angle pattern Left hand side connection

G ½ male x G ¾ male

1015874*



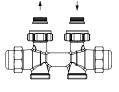
Angle pattern Right hand side connection

G ½ male x G ¾ male

1015875*

"Multiflex FQ" Fittings for G ¾ male thread

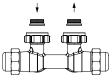
brass connection fitting with "Q-Tech" for automatic hydronic balancing, soft sealing, flat sealing, nickel plated, for radiators with integrated distributor G 3/4 male thread



Straight pattern

G 34 c/nut x G 34 M

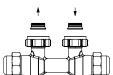
1015803*



Angle pattern Left hand side connection

G 34 c/nut x G 34 M

1015804*



Angle pattern Right hand side connection

G 34 c/nut x G 34 M

1015805*

Fitting with "Q-Tech" and isolating facility for radiators with integrated distributor.

Application:

Central heating and cooling systems with closed circuits, for operation with nonaggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).

Max. operating pressure p_s: 10 bar (PN 10) Operating temperature t_s: 2 °C up to 110 °C Flow range: 10 - 170 l/h

The volume flow for the radiator determined in the heat demand calculation can be set directly at the fitting. The volume flow is automatically limited to the set value (automatic hydronic balancing).

Even if differential pressure variations occur in the heating system, the flow rate is constantly maintained within the necessary proportional

Setting is carried out by using the presetting key supplied with the fittings.

Isolation is carried out with the help of an Allen key.

The nipples supplied with the fittings are self sealing.

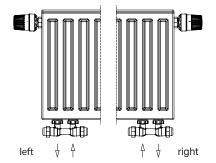
The fittings are not suitable for steam installations.

For further information see chapter "Fittings for radiators with integrated distributor": page

An existing angle pattern fitting for left hand side connection can be converted to a "Multiflex FQ" fitting for right hand side connection by swapping the valve insert and the isolating insert and vice versa.

For the connection of copper, precision steel, stainless steel and plastic pipes as well as the Oventrop composition pipe "Copipe", the Oventrop compression fittings are to be used, page 1.140.

Alternatively, the compression fittings of other manufacturers which are suitable for the connection to G 3/4 male thread according to DIN EN 16313 (cone "Euro") may also be used.



2017 1.118 *New in catalogue 2017

Page

OVENTROP Room temperature and climate control / Hydronic balancing at the radiator



1.t Fittings for radiators with integrated distributor

Content	
"Multiflex F" Fittings for G ½ female thread	1.120
"Multiflex F" Fittings for G ¾ male thread	1.121
"Multiflex V" Fittings for G ½ female thread	1.122
"Multiflex V" Fittings for G ¾ male thread	1.123
Radiator connection	1.124
Inversion fittings	1.124
Connection fittings	1.125
Plastic rosette cover, white	1.125

Room temperature and climate control / Hydronic balancing at oventrop the radiator

1.t Fittings for radiators with integrated distributor "Multiflex F" Fittings for G 1/2 female thread

Article

Packing Article-No. unit

Hint

"Multiflex F" Fittings for G 1/2 female thread

brass connection fittings, soft sealing, flat sealing, nickel plated, for radiators with integrated distributor G 1/2 female thread

Combinations

distance between pipe centres 50 mm



ZB isolating fitting for two pipe systems

G 1/2 male x G 3/4 male

(10) 1015883#



ZB angle pattern isolating fitting for two pipe systems

G 1/2 male x G 3/4 male

(10) 1015884#



Design cover for

ZB isolating and angle pattern isolating fittings, item no. 1015813/14/83/84, white

(5) 1015896



ZB isolating fitting for two pipe systems, pivoting

G 1/2 male x G 3/4 male

(10) 1015781



ZBU preset isolating fitting for two pipe systems for filling and draining

G 1/2 male x G 3/4 male

(10) 1015993



ZBU angle pattern preset isolating fitting for two pipe systems for filling and draining

G 1/2 male x G 3/4 male

(10) 1015994



CEW preset isolating fitting for one pipe systems for filling and draining

G 1/2 male x G 3/4 male

(10) 1015933



CEW angle pattern preset isolating fitting for one pipe systems for filling and draining

G ½ male x G ¾ male

(10) 1015934



Single fittings

Isolating fitting "Combi 3"

G ½ male x Rp ½ female G 1/2 male x G 3/4 male

(25)1016175 1016177 (25)



Angle pattern isolating fitting "Combi 3"

G ½ male x Rp ½ female

(25)1016575

G 1/2 male x G 3/4 male

1016577 (25)

The connection to the radiator is self sealing. (Self sealing nipples are supplied with each fitting.)

Application:

Central heating and cooling systems with closed circuits, for operation with nonaggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195). Max. operating pressure $\rm p_s$: 10 bar (PN 10) Operating temperature $\rm t_s$: 2 °C up to 120 °C (for short periods up to 130 °C)

The counterpart (thread of the distributor) of the self sealing nipple has to be equipped with a bevel (without burrs) in order not to damage the ring gasket. Soft seal between connection fitting and nipple. The connection fittings for G ½ female thread are suitable for radiators with integrated distributor of the following manufacturers:

Agis, Alarko, Arbonia, Baykan, Bemm, Biasi, Borer, Bremo, Caradon-Stelrad, Celikpan, Concept, Cöskünöz, DEF, Delta, Demrad, DiaNorm, Dia-therm, Dunaferr, DURA, Ferroli, HM-Galant, Henrad, Hoval, Hudevad, IMAS, Itemar, Jugoterm, Korado, Manaut, Quinn, Purmo, Radson, Runtal, Schäfer, Starpan, Stelrad, Superia, TermoTeknik, Thor, US-Steel, Vasco, VEHA, Zehnder, Zenith. (Subject to change without notice). The ZB fittings (two pipe block) are used for radiators with integrated distributor for two pipe systems.

Isolation with limit stop

The ZBU fittings (two pipe block, convertible) can be used for two pipe systems (as supplied) or for one pipe systems. If used in one pipe systems, the bypass stem has to be adjusted according to the enclosed installation instructions.

The CEW fittings can be used for one pipe operation (like ZBU fittings but preset to one pipe operation with a radiator share of 35 %) or for two pipe operation.

The Oventrop compression fittings are to be used, page 1.142.

Alternatively, the compression fittings of other manufacturers which are suitable for the connection to male thread G 3/4 according to DIN EN 16313 (cone "Euro") may also be used.

"Combi 3" for presetting, isolating, filling and draining.

Service tool item no. 1090551, page 1.121.

Fittings with Rp 1/2 female thread are not suitable for compression fittings (only for threaded pipes).

Room temperature and climate control / Hydronic balancing at the radiator

1.t Fittings for radiators with integrated distributor 'Multiflex F" Fittings for G ¾ male thread

Article

Packing Article-No. unit

Hint

"Multiflex F" Fittings for G ¾ male thread

brass connection fittings, soft sealing, flat sealing, nickel plated, for radiators with integrated distritubor G 3/4 male thread

according to DIN EN 16313 (cone "Euro")

Combinations

distance between pipe centres 50 mm



oventrop

ZB isolating fitting for two pipe systems

G ¾ collar nut x G ¾ male

(10) 1015813#



ZB angle pattern isolating fitting for two pipe systems

G 34 collar nut x G 34 male

(10) 1015814#



Design cover for ZB isolating and angle pattern isolating fittings, item no. 1015813/14/83/84, white

(5) 1015896



ZB isolating fitting for two pipe systems, pivoting

G ¾ collar nut x G ¾ male

(10) 1015711



ZBU preset isolating fitting for two pipe systems for filling and draining

G ¾ collar nut x G ¾ male

(10) 1015943



ZBU angle pattern preset isolating fitting for two pipe systems for filling and draining

G ¾ collar nut x G ¾ male

(10) 1015944

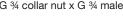


Single fittings

Isolating fitting "Combi 3"

G ¾ collar nut x Rp ½ female G ¾ collar nut x G ¾ male

1016166



1016168



Angle pattern isolating fitting "Combi 3"

G 3/4 collar nut x Rp 1/2 female

(25) 1016567

G ¾ collar nut x G ¾ male

1016569 (25)

The connection fitting to the radiator is soft sealing.

Application:

Central heating and cooling systems with closed circuits, for operation with nonaggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).

Max. operating pressure p_s: 10 bar (PN 10) Operating temperature t_s: 2 °C up to 120 °C (for short periods up to 130 °C)

The connection fittings for G 3/4 male thread are suitable for radiators with integrated distributor of the following manufacturers: Baufa, Brötje, Brugman, Buderus, De 'Longhi, Kermi, Radel, Ribe, Vogel + Noot.

(Subject to change without notice). The ZB fittings (two pipe block) are used for radiators with integrated distributor for two

Isolation with limit stop

pipe systems.

The ZBU fittings (two pipe block, convertible) can be used for two pipe systems (as supplied) or for one pipe systems.

If used in one pipe systems, the bypass stem has to be adjusted according to the enclosed installation instructions.

The Oventrop compression fittings are to be used, page 1.142.

Alternatively, the compression fittings of other manufacturers which are suitable for the connection to male thread G 3/4 according to DIN EN 16313 (cone "Euro") may also be

The presetting of the fittings is carried out with the help of a 4 mm Allen key.

"Combi 3" for presetting, isolating, filling and draining.

Fittings with Rp 1/2 female thread are not suitable for compression fittings (only for threaded pipes).

For further information see "Technical information":





1090551 Service tool

Room temperature and climate control / Hydronic balancing at oventrop the radiator

1.t Fittings for radiators with integrated distributor "Multiflex V" Fittings for G 1/2 female thread

Article

Packing Article-No. unit

"Multiflex V" Fittings for G 1/2 female thread

brass connection fittings, metal to metal tapered sealing, nickel plated, for radiators with integrated distributor G ½ female thread

Combinations

distance between pipe centres 50 mm



ZB preset isolating fitting for two pipe systems for filling and draining

G 1/2 male x G 3/4 male

(10) 1016291°



ZB angle pattern preset isolating fitting for two pipe systems for filling and draining

G 1/2 male x G 3/4 male

(10) **1016292°**



CE preset isolating fitting for one pipe systems for filling and draining

G 1/2 male x G 3/4 male

(10) 1016391°



CE angle pattern preset isolating fitting for one pipe systems for filling and draining

G 1/2 male x G 3/4 male

(10) 1016392°

The connection fitting to the radiator is self sealing. (Self sealing nipples are supplied with each fitting.)

Application:

Central heating and cooling systems with closed circuits, for operation with nonaggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).

Max. operating pressure p_s : 10 bar (PN 10) Operating temperature t_s : 2 °C up to 120 °C (for short periods up to 130 °C)

The counterpart (thread of the distributor) of the self sealing nipple has to be equipped with a bevel (without burrs) in order not to damage the ring gasket. The connection fittings for G ½ female thread are suitable for radiators with integrated distributor of the following manufacturers:

Agis, Alarko, Arbonia, Baykan, Bemm, Biasi, Borer, Bremo, Caradon-Stelrad, Celikpan, Concept, Cöskünöz, DEF, Delta, Demrad, DiaNorm, Dia-therm, Dunaferr, DURA, Ferroli, HM-Galant, Henrad, Hoval, Hudevad, IMAS, Itemar, Jugoterm, Korado, Manaut, Quinn, Purmo, Radson, Runtal, Schäfer, Starpan, Stelrad, Superia, TermoTeknik, Thor, US-Steel, Vasco, VEHA, Zehnder, Zenith. (Subject to change without notice).

The ZB fittings (two pipe block) are used for radiators with integrated distributor for two pipe systems.

The CE fittings (Combi one pipe) with barrier preventing heat back-flow are used for radiators with two pipe distributors in one pipe systems. Tolerance adjustment of the radiator connection with the help of the patented body connection sealed with double O-ring. Preset radiator flow share: 35 % (factory setting)

For further information see "Technical information":



oventrop

Room temperature and climate control / Hydronic balancing at the radiator

Article Packing Article-No.

Hint

"Multiflex V" Fittings for G ¾ male thread

brass connection fittings, **metal to metal tapered sealing**, nickel plated, for radiators with integrated distributor **G** 3/4 **male thread** according to DIN EN 16313 (cone "Euro")

Combinations

distance between pipe centres 50 mm



ZB preset isolating fitting for two pipe systems for filling and draining

G ¾ collar nut x G ¾ male

(10) **1016241°**



ZB angle pattern preset isolating fitting for two pipe systems for filling and draining

G ¾ collar nut x G ¾ male

(10) **1016242°**



CE preset isolating fitting for one pipe systems for filling and draining

G 34 collar nut x G 34 male

(10) **1016341°**



CE angle pattern preset isolating fitting for one pipe systems for filling and draining

G ¾ collar nut x G ¾ male

(10) 1016342°



Service tool 1090551

The connection fitting to the radiator has a metal to metal seal.

Application:

Central heating and cooling systems with closed circuits, for operation with non-aggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).

Max. operating pressure p_s: 10 bar (PN 10)

Max. operating pressure p_s : 10 bar (PN 10) Operating temperature t_s : 2 °C up to 120 °C (for short periods up to 130 °C)

The connection fittings for G ¾ male thread are suitable for radiators with integrated distributor of the following manufacturers:
Baufa, Brötje, Brugman, Buderus, De 'Longhi,

Kermi, Radel, Ribe, Vogel + Noot. (Subject to change without notice). The ZB fittings (two pipe block) are used for radiators with integrated distributor for two

radiators with integrated distributor for two pipe systems.

The CE fittings (Combi one pipe) with barrier preventing heat back-flow are used for radiators with two pipe distributors in **one pipe systems**. Tolerance adjustment of the radiator connection with the help of the patented body connection sealed with double O-ring. Preset radiator flow share: 35 % (factory setting)



Single fitting

Fitting

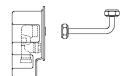
G ¾ collar nut x Rp ½ female (25) 1016304

Fittings with Rp ½ female thread are not suitable for compression fittings (only for threaded pipes).
For further information see "Technical information":



1.t Fittings for radiators with integrated distributor Radiator connection Inversion fittings

Packing Article-No. Article Hint **Radiator connection** The radiator connection module "Multimodul" allows the installation and operation of the



"Multimodul" Radiator connection

1015651

heating system without radiators during the construction period. The module is suitable for one and two pipe heating systems and has isolating, draining, filling and presetting facilities.

The module is supplied with a wall installation box with white cover (RAL 9010), connecting pipes, compression fittings and a protection cover made of Styrofoam.

Inversion fittings

brass, nickel plated,

for reversed supply and return pipe, for two pipe heating systems, for radiators with integrated distributor



with isolating facility distance between pipe centres 50 mm

G 1/2 male x G 3/4 male

(10) 1016363

angle pattern, with isolating facility distance between pipe centres 50 mm

G 1/2 male x G 3/4 male (10) 1016463



with isolating facility distance between pipe centres 50 mm

G ¾ collar nut x G ¾ male (10) 1016362



with isolating facility upper distance between pipe centres 50 mm lower distance between pipe centres 40 mm

G ¾ collar nut x G ¾ male (10) 1016372



angle pattern, with isolating facility distance between pipe centres 50 mm

G ¾ collar nut x G ¾ male (10) 1016462



Bridging fitting

distance between pipe centres 50 mm

G ¾ male thread (10) 1016452 For bridging-over the supply and the return pipe in case of subsequent installation of radiators.

1.t Fittings for radiators with integrated distributor Connection fittings Plastic rosette cover, white

<u> </u>				· · · · · · · · · · · · · · · · · · ·
	Article	Packin unit	^g Article-No.	Hint
	Connection fittings brass			For "Multiflex V" fittings. Effective length: 15.5 mm
	Insert as set = 2 pieces			For "Multiflex F", "Multiblock T/TU/TFU/TQ/T-RTL/TQ-RTL" and "Cocon QTZ" DN 15.
	for cone according to DIN EN 16313 (cone "Euro")	(50)	1661100	1-IIID IQ-IIIE and Gocon Q12 DN 13.
	Distance piece, nickel plated			Compression fittings, 2-fold, page 1.142.
W = W	Set = 2 pieces G ¾ female x G ¾ male	(100)	1681650	G $\%$ male thread side with tapered sealing, according to DIN EN 16313 (cone "Euro").
	Nipple, unplated one port self sealing Set = 10 pieces			
	G ½ male x G ¾ male	(10)	1028252	For "Multiflex F", "Multiblock T/TU/TFU/TQ/T-RTL/TQ-RTL". Port G ¾ flat sealing.
	G ½ male x G ¾ male	(10)	1028253	For "Multiflex V", port G ¾ with tapered sealing according to DIN EN 16313 (cone "Euro").
an Am	Nipple, nickel plated			Port G ¾ with tapered sealing according to DIN EN 16313 (cone "Euro").
шАШ	G ½ male x G ¾ male	(10)	1028161	Port G ½ self sealing.
MAM	Double nipple, brass, nickel plate	ed		Port G ¾ with tapered sealing according to
	G ¾ male x G ¾ male	(10)	1028263	DIN EN 16313 (cone "Euro").
	Plastic rosette cover, white flat, distance between pipe centres	s 50 mr	m	For "Bypass-Combi" distributors, valves with insertion tube, two pipe connection pieces from page 1.86, "Multiblock T/TU/TFU/TQ"
	Distance between pipe centres 50 Perforation	mm		from page 1.78 and "Multiflex" fittings from page 1.120.
	12 mm 14 mm	, ,	1016671 1016672	
	15 mm 16 mm	(25) (25)	1016673 1016674	
	18 mm	(25)	1016675	
	for pipe diameters 10, 12, 15, 16, 18, 20 mm, distance between pipe centres 50 mm	(25)	1016662	

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OVENTROP Room temperature and climate control / Hydronic balancing at the radiator



1.u Lockshield valves for conventional radiators

"Combi 4"	1.128
"Combi C"	1.128
"Combi 3"	1.129
"Combi 2"	1.130
"Combi LR"	1.130

OVENTROP Room temperature and climate control / Hydronic balancing at the radiator

1.u Lockshield valves for conventional radiators
"Combi 4"
"Combi C"

Article	kvs	Packing unit	^g Article-No.	Hint
"Combi 4" presetting with isolating, filling Bronze/brass n		accor	ding to EN 10226-1	Application: Central heating and cooling systems with closed circuits, for operation with non-aggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according
Angle pattern nickel plated	4.70	(0.5)		to VDI 2035/ÖNORM 5195). Max. operating pressure p _s : 10 bar (PN 10) Operating temperature t _s : 2 °C up to 120 °C
DN 10 DN 15 DN 20	1.70 1.70 1.70	(25) (25) (10)	1090661 1090662 1090663	(for short periods up to 130 °C) Lengths according to DIN 3842 (except for item no. 1090672 und 1090772). All lockshield valves are also suitable for the installation with copper pipes.
DN 15 G ¾ male threa	1.70 d x R ½ male thread	(25)	1090672	The lockshield valves DN 15 may be connected to the Oventrop composition pipe "Copipe".
				Compression fittings page 1.140, reinforcing sleeves page 1.143.
Straight patterr nickel plated	1			The lockshield valves item no. 1090662 and 1090762 are self sealing.
DN 10 DN 15 DN 20	1.70 1.70 1.70	(25) (25) (10)	1090761 1090762 1090763	Ü
DN 15 G ¾ male threa	1.70 d x R ½ male thread	(25)	1090772	For further information see "Technical information":
"Combi C" presetting with isolating, filling	•			Application: Central heating and cooling systems with closed circuits, for operation with non-aggressive, harmless fluids (e.g. water or
Angle pattern chrome plated				suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195). Max. operating pressure p _s : 10 bar (PN 10)
DN 15	1.70	(25)	1164554	Operating temperature t _s : 2 °C up to 120 °C (for short periods up to 130 °C)
Straight patterr chrome plated	1			Technical data as "Combi 4".
DN 15	1.70	(25)	1165554	Lengths according to DIN 3842.
Service tool			1090551	All lockshield valves are suitable for the installation with copper pipes.
				Compression fittings page 1.140, reinforcing sleeves page 1.143.

OVENTROP Room temperature and climate control / Hydronic balancing at the radiator

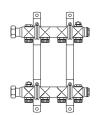
Article	kvs	Packing unit	⁹ Article-No.	Hint
bronze/brass mo	ing, filling and dra odel, female threa aded pipe connec	d accord	Application: Central heating and cooling systems with closed circuits, for operation with nonaggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according	
Angle pattern nickel plated				to VDI 2035/ÖNORM 5195). Max. operating pressure p _s : 10 bar (PN 10)
DN 10 DN 15 DN 20	1.70 1.70 1.70	(25) (25) (10)	1090361 1090362 1090363	Operating temperature t_s : 2 °C up to 120 °C (for short periods up to 130 °C) Lengths according to DIN 3842.
		(- /		All lockshield valves are also suitable for the installation with copper pipes.
Straight pattern nickel plated				The lockshield valves DN 15 may be connected to the Oventrop composition pipe "Copipe".
DN 10 DN 15 DN 20	1.70 1.70 1.70	(25) (25) (10)	1090461 1090462 1090463	Compression fittings page 1.140, reinforcing sleeves page 1.143.
with press conne and C-steel pipe Angle pattern nickel plated		stainles	es steel	Press connection: For the direct connection of copper pipes according to DIN EN 1057/DVGW GW 392, stainless steel pipes according to DIN EN 10088/DVGW GW 541 and thin-walled C-steel
DN 15	1.70	(25)	1090374	pipe (material no. E 195/1.0034) according to DIN EN 10305-3. Pressing must be carried out
Straight pattern nickel plated				to tighten the connection. Only use press jaws with the original contours SANHA (SA), Geberit- Mapress (MM) or Viega (Profipress) in corresponding size. Processing must be
DN 15	1.70	(25)	1090474	carried out according to the installation instructions.
Service tool			1090551	For further information see "Technical information":

	Article	kvs	Packing Article-No.	Hint
n-n	"Combi 2" presetting, iso brass model, "	•	rding to EN 10226-1	Application: Central heating and cooling systems with closed circuits, for operation with nonaggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according
	nickel plated			to VDI 2035/ÖNORM 5195). Max. operating pressure p _s : 10 bar (PN 10)
	DN 10 DN 15 DN 20	1.70 1.70 1.70	(25) 1091061 (25) 1091062 (10) 1091063	Operating temperature t _s : 2 °C up to 120 °C (for short periods up to 130 °C)
	DN 45	4.70	(05) 1001070	Lengths according to DIN 3842 (except for item no. 1091072 and 1091172).
	DN 15 G ¾ male thre	1.70 ead x G ½ male threa	(25) 1091072 ead	All lockshield valves are also suitable for the installation with copper pipes.
	Straight patter	rn		The lockshield valves DN 15 may be connected to the Oventrop composition pipe "Copipe".
	DN 10 DN 15	1.70 1.70	(25) 1091161 (25) 1091162	Compression fittings page 1.140, reinforcing sleeves page 1.143.
	DN 20	1.70	(10) 1091163	The lockshield valves item no. 1091072 and 1091172 are self sealing.
	DN 15 G ¾ male thre	1.70 ead x G ½ male threa	(25) 1091172 ead	
	Bronze/brass Angle pattern unplated	model, solder type		The insert has to be unscrewed for soldering operation.
	R 3/8 x 12 mm R 1/2 x 12 mm R 1/2 x 15 mm	1.70 1.70 1.70	(25) 1091251° (25) 1091252° (25) 1091253°	
	Straight patter unplated	rn		For further information see "Technical information":
	R ½ x 12 mm R ½ x 12 mm R ½ x 15 mm	1.70 1.70 1.70	(25) 1091351° (25) 1091352° (25) 1091353°	
	"Combi LR" presetting, iso brass model,		rding to EN 10226-1	Application: Central heating and cooling systems with closed circuits, for operation with nonaggressive, harmless fluids (e.g. water or
	Angle pattern nickel plated			suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195). Max. operating pressure p _s : 10 bar (PN 10)
	DN 10 DN 15 DN 20 DN 25	3.50 4.50 4.50 4.50	(25) 1027562 (25) 1027564 (10) 1027566 (10) 1027568	Operating temperature t _s : 2 °C up to 120 °C (for short periods up to 130 °C) Lengths according to EN 215.
	Straight patte		(.5)	With higher kvs value, for instance for one pipe heating systems and cooling systems.
	DN 10 DN 15 DN 20	1.80 1.80 2.40	(25) 1027662 (25) 1027664 (10) 1027666	All lockshield valves from DN 10 up to DN 20 are suitable for the installation with copper pipes.
	DN 25	3.20	(10) 1027668	The lockshield valves DN 15 may be connected to the Oventrop composition pipe "Copipe".
				Compression fittings page 1.140, reinforcing sleeves page 1.143.

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1





1.v Distributors/collectors

Content

"Multidis SH" Stainless steel distributor/collector	1.132
Ball valves	1.132
Flush-mounted cabinets	1.133
Ring spanner	1.133
Floor distributor/collector	1 133

Packing Article-No. Article

Hint

"Multidis SH" Stainless steel distributor/collector for radiator connection

flat sealing

for 2 circuits	1407152
for 3 circuits	1407153
for 4 circuits	1407154
for 5 circuits	1407155
for 6 circuits	1407156
for 7 circuits	1407157
for 8 circuits	1407158
for 9 circuits	1407159
for 10 circuits	1407160
for 11 circuits	1407161
for 12 circuits	1407162

Ball valves



flat sealing

G¾FxG1M	(10)	1406383
G1FxG1M	(10)	1406384



flat sealing, with thermometer (0-80°C) with red T-handle

G¾FxG1M	1406483
G1FxG1M	1406484

flat sealing, with thermometer (0-80°C) with blue T-handle

G ¾ F x G 1 M	1406583
G1FxG1M	1406584



flat sealing,

with sensor connection M 10 x 1.0

6708
6



with cone "Euro"

G % Inale x G % Collai flut (50) 140650	G ¾ male >	34 collar nut	(50	140650
--	------------	---------------	-----	--------

Central heating and cooling systems with closed circuits, for operation with nonaggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).

Max. operating pressure ps: 10 bar (PN 10) Max. operating temperature t_s: 100 °C

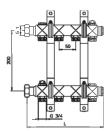
Description:

Pre-assembled distributor/collector.

Flow distributor and supply collector with vent plugs and terminal caps.

Heating circuit connections G ¾ male thread according to DIN EN 16313 (cone "Euro") for Oventrop compression fittings.

Brackets (loosely added) sound-absorbing as per DIN 4109 standard.



Circuits	Length (L)	Length with ball valves 1406384
2	140 mm	220 mm
3	190 mm	270 mm
4	240 mm	320 mm
5	290 mm	370 mm
6	340 mm	420 mm
7	390 mm	470 mm
8	440mm	520 mm
9	490 mm	570 mm
10	540 mm	620 mm
11	590 mm	670 mm
12	640 mm	720 mm

Ball valve for the isolation of the heating circuits at the distributor/collector. Heating circuit connection G ¾ male thread according to DIN EN 16313 (cone "Euro") for Oventrop compression fittings. Distributor/collector connection with collar nut G ¾ and O-ring seal.

Room temperature and climate control / Hydronic balancing at the radiator

Article Article-No. Hint

Flush-mounted cabinets

steel, galvanised, frame and doors white lacquered removable screen

No. 1: inner width: 560 mm	1401151
No. 2: inner width: 700 mm	1401152
No. 3: inner width: 900 mm	1401153
No. 4: inner width: 1200 mm	1401154

Depth: 115 - 180 mm Height: 760 - 885 mm

To be used for the following distributors/ collectors:

S	No. °°	S + B	No. °°
8 circuits	1	7 circuits	1
11 circuits	2	10 circuits	2
12 circuits	3	12 circuits	3

^{°°} No. of the cabinets

Distributor/collector for radiator connection:

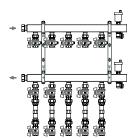
S = stainless steel distributor/collector without ball valves

S + B = stainless steel distributor/collector with ball valves



Ring spanner

Spanner size 30/32 1401091 For the installation of the compression fittings.



Floor distributor/collector

with heat meter connections

for 2 dwelling units	1408652*
for 3 dwelling units	1408653*
for 4 dwelling units	1408654*
for 5 dwelling units	1408655*

consisting of:

- Flow distributor and return collector with G 1 and G ¾ connections (flat sealing with collar nuts)
- Airvent, fill and drain valves, ring gaskets
- Heat meter connection sets
- Double bracket

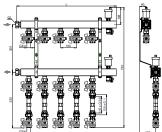
The components have to be assembled on site.

Application:

The floor distributor/collector with heat meter connections is used for the distribution and isolation of the volume flows on each floor to the individual dwelling units.

The heat meter connection sets allow for the installation of heat meters for the registration of the heat consumption of the individual dwellings.

Dimensions/connection sizes:



Lengths of the floor distributors/collectors:

Item no. N	lo. of	Length (L
d	welling ι	units
1408652	2	325 mm
1408653	3	425 mm
1408654	4	525 mm
1408655	5	625 mm

2017 1.133 *New in catalogue 2017

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1.w Conversion fittings/Accessories for radiators Content Conversion fittings Strainer inserts Accessories for radiators

2017 1.135

Room temperature and climate control / Hydronic balancing at oventrop the radiator

Packing Article-No. Article Hint unit

Conversion fittings

brass, nickel plated, with tapered sealing for thermostatic and manual valves



1 1 1		
П—Н	(G ¾ male thread x G ¾ collar	(10)
11.—	nut)	

1019204



Length compensating tail (short)

DN 10	G 3/8 male thread	(25)	1019003
DN 15	G ½ male thread	(25)	1019004
DN 20	G ¾ male thread	(25)	1019006



Length compensating tail (medium)

DN 15	R ½ male thread	(25)	1019052



Length compensating tail (long)

DN 10	G 3/8 male thread	(20)	1019103
DN 15	G ½ male thread	(20)	1019104
DN 20	G ¾ male thread	(10)	1019106



Reducer

(10)	1019251
(10)	1019252
(10)	1019253
(10)	1019254
	(10) (10)



Reducing coupling

DN 10	(C 5/ 0/put v D 1/ M)	(25)	1010251
DN 10	(G % c/nut x R ½ M)	(25) 1019351



DN 20	(G ½ male thread)	(25)	1019352
DN 25	(G ½ male thread)	(25)	1019353



Coupling

Reducing tail

DN 10	(G 5/8 c/nut x R 3/8 M)	(50)	1019303
DN 15	(G ¾ c/nut x R ½ M)	(50)	1019304
DN 20	(G 1 c/nut x R ¾ M)	(50)	1019306
DN 25	(G 11/4 c/nut x R 1 M)	(50)	1019308



self sealing, with threaded ring gasket

DN 15	(G ¾ c/nut x G ½ M)	(50)	1019362



self sealing with O-ring

DN 15	(G ¾ c/nut x G ½ M)	(25)	1019372
DIV 10	(a /4 0/11at x a /2 1vi)	(20)	1010012



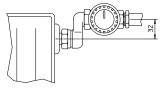
Elbow

DN 15 (G 1/2 M x G 3/4 c/nut) (25) 1019365



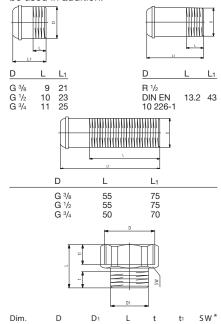
Compensation fitting for lower connection

G 3/4 c/nut x G 3/4 M (10) 1019451



The S-connection fittings (protection of registered design) are suitable for the replacement of radiators using existing pipework. The max. distance between pipe centres is 2 x 32 mm = 64 mm (no sealing required).

In combination with double angle pattern valves, the coupling item no. 1019304 has to be used in addition.



*	SW	=	spai	nner	size
---	----	---	------	------	------

G 1 G 1 G 1¹/₄ G 1¹/₄

G ¹/₂ G ³/₄ G ¹/₂ G ³/₄

27 28 29

38

38 46 13 13

Especially suitable for "Bypass-Combi" (pages 1.86 and 1.87) if a straight pattern valve shall be used instead of an angle pattern valve.

Axle distance 11.5 mm, H = 43 mm, both ports with tapered sealing.

OVENTROP Room temperature and climate control / Hydronic balancing at the radiator

Article	Packing Article-No. unit	Hint		
Strainer inserts	For the conversion of old installations in order to avoid a malfunction due to coarse impurity (50) 1019903 (deposits). (50) 1019904 (25) 1019906			
plastic				
DN 10 (3/8) DN 15 (1/2) DN 20 (3/4) DN 25 (1)	(50) 1019904			
Cap with washer and fixing loop		Female thread of the cap		
DN 10 DN 15 DN 20 DN 25	(10) 1010999 (50) 1034052 (25) 1034053 (25) 1034008	G %, without fixing chain G ¾, also for "Optiflex" DN 10 G 1 G 1¼		

OVENTROP Room temperature and climate control / Hydronic balancing at the radiator

1.w Conversion fittings/Accessories for radiators

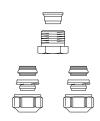
			<u> </u>
	Article	Packing Article-No. unit	Hint
	Accessories for radiators		Application: Central heating systems with closed
	Vent plug brass, nickel plated		circuits, for operation with non-aggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/
- - /7	for panel radiators with rotating water outlet self sealing		ÖNORM 5195). Max. operating pressure p _s : 10 bar (PN 10) Operating temperature t _s : 2 °C up to 120 °C
	G ½ male thread G ½ male thread	(100) 1101603 (10) 1101604	
	Blind plugs brass		
S	G 1/4 male thread G 1/4 male thread G 3/4 male thread G 1/2 male thread	(100) 1100101 (100) 1100102 1100103 (50) 1100104	
	brass, nickel plated self sealing		Max. operating pressure $p_{s:}$ 10 bar (PN 10) Operating temperature $t_{s:}$ 2 °C up to 100 °C
	G ¾ male thread G ½ male thread G ¾ male thread	(100) 1101703 (10) 1101704 (50) 1101706	
	Keys suitable for item no. 10376 and (6 mm square)	10380	
	for all sizes	(10) 1103051	
	suitable for item no. 1101603 and (5 mm square)	d 1101604	
	for all sizes	(10) 1103151	
	Venting screw brass		
	G ½ male thread G ¼ male thread G ¾ male thread	(25) 1109001 (25) 1109002 (25) 1109003	
	Drain valve self sealing, with rotating outlet made of brass resistant to dezing Set = 10 pieces Handwheel and outlet anthracite	cification	Max. operating pressure: p_s : 10 bar (PN 10) Max. operating temperature t_s : 100 °C With nipple for $\frac{3}{8}$ hose. Seal made of EPDM. For filling and deaeration, for use at radiators. Also suitable for valves and components of surface heating and patch by water parts.
	G ¼ male thread G ¾ male thread G ½ male thread	(10) 1102002 (10) 1102003 (10) 1102004	surface heating and potable water systems.

OVENTROP Room temperature and climate control / Hydronic balancing at the radiator

Brass reinforcing sleeves

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1.x Connection system	
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'Ofix" Compression fittings (2-fold)	1.142
'Cofit S" Compression fittings	1.143
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nstallation examples	1.145
'Ofix" for the connection of standard pipes to Oventrop valves and controls	1 146

Room temperature and climate oventrop control / Hydronic balancing at the radiator

1.x Connection system "Ofix" Compression fittings

Article	Packing Article-No.	Hint
"Ofix" Compression fitti brass	ngs	For the connection of Oventrop radiator fittings (except for single fittings "Multiflex" with female thread Rp ½) to the pipework.
	ces according to DIN EN 1057 lated, metal to metal sealing (10) 1027151 (10) 1027152 (10) 1027157 (10) 1027158	Application: Central heating and cooling systems with closed circuits, for operation with nonaggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195). Max. operating pressure p _s : 10 bar (PN 10) Operating temperature t _s : 2 °C up to 120 °C
G ½ x 10 mm G ½ x 12 mm G ½ x 14 mm G ½ x 15 mm G ½ x 16 mm	(10) 1028152 (10) 1028153 (10) 1028154 (10) 1028155 (10) 1028156	Compression fittings for female thread (item no. 1028152 up to 56) not suitable for thermostatic valves "RF/RFV 6/RFV 9/RFQ", manual valves "HRV" with reduced dimensions and return temperature limiter valves.
		Compression fittings for above valves: page 3.45

Attention: When installing copper pipes with a wall thickness of ≤ 1 mm, it is necessary to use reinforcing sleeves for the additional stabilisation of the pipe. Should the wall thickness exceed 1 mm, please contact the pipe manufacturer. Reinforcing sleeves for wall thickness = 1 mm: page 1.143. Exception: Reinforcing sleeves are not required for soft sealing compression fittings. Note: The pipes are not held by the soft sealing fitting, they have to be fixed additionally. Regarding stretching of the pipe ends, the instructions of the pipe manufacturers have to be observed.

OVENTROP Room temperature and climate control / Hydronic balancing at the radiator

1.x Connection system "Ofix" Compression fittings

Article	Packing Article-No. unit	Hint
	ccording to DIN EN 16313 (cone "Euro") bipes according to DIN 1057 metal to metal sealing	For the connection of radiator fittings with male thread G ¾ according to DIN EN 16313 (cone "Euro") to the pipework. Application:
10 mm 12 mm 14 mm 15 mm 16 mm 18 mm	(10) 1027472 (10) 1027473 (10) 1027474 (10) 1027475 (10) 1027476 (10) 1027477	Central heating and cooling systems with closed circuits, for operation with non-aggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195). Max. operting pressure p _s : 10 bar (PN 10) Operating temperature t _s : 2 °C up to 120 °C
DIN EN 1057, precision 10305-1/2 and stainless	eal – for copper pipes according to steel pipes according to DIN EN s steel pipes, collar nut nickel plated, on ring function, one-piece pre-assembled, ing sleeves required)	Max. operating pressure p _s : 10 bar (PN 10) Operating temperature t _s : 2 °C up to 95 °C The "Ofix CEP" compression fittings - Snap & Seal - can also be used with galvanised steel
10 mm 12 mm 14 mm 15 mm 16 mm 18 mm	(10) 1027440 (10) 1027441 (10) 1027442 (10) 1027443 (10) 1027444 (10) 1027445	pipes (DIN EN 10305-3): Geberit, Mapress C-steel system pipe (galvanised from outside) Seppelfricke, XPress C-steel pipe (galvanised from outside) Simplex, VSH C-steel pipe (galvanised from outside) Viega, Prestabo steel pipe (galvanised from outside)
DIN 16892/16893, PB a	s according to DIN 4726, PE-X according to according to DIN 16968, PP according to DIN sel plated, metal to metal sealing plus O-ring	The permissible operating pressures and operating temperatures depend on the application classes of the respective standands
12 x 1.1 mm 12 x 2 mm 14 x 2 mm 16 x 1.5 mm 16 x 2 mm 17 x 2 mm 18 x 2 mm 20 x 2 mm	(10) 1027768 (10) 1027752 (10) 1027755 (10) 1027767 (10) 1027757 (10) 1027759 (10) 1027761 (10) 1027763	of the plastic pipework systems (e.g. PE-X, DIN EN ISO 15875).
DIN 16892/16893, PB a	s according to DIN 4726, PE-X according to according to DIN 16968, PP according to DIN lated, metal to metal sealing plus O-ring	
12 x 1.1 mm 12 x 2 mm 14 x 2 mm 16 x 1.5 mm 16 x 2 mm 17 x 2 mm 20 x 2 mm 18 x 2 mm	(10) 1027788 (10) 1027772 (10) 1027775 (10) 1027787 (10) 1027777 (10) 1027779 (10) 1027783 (10) 1027781	

Room temperature and climate oventrop control / Hydronic balancing at the radiator

Article	Packing Article-No. unit	Hint
"Ofix" Compression fittings (2 brass	-fold)	Compression fittings for female thread: For the connection of Oventrop radiator fittings
for female thread		(except single fittings "Multiflex" with female thread Rp ½) to the pipework. Compression fittings for G ¾ male thread: For the connection of "Multiblock
"Ofix CEP" Compression fittings 2-fold, for connecting pipe, meta-		T/TU/TFU/TQ/T-RTL and TQ-RTL" and "Multiflex" fittings as well as radiator valves with insertion tube to the pipework.
G ½ x 15 mm	(50) 1016853	with insertion tube to the pipework.
	, ,	Application:
for G ¾ male thread according collar nut nickel plated	g to DIN EN 16313 (cone "Euro")	Central heating and cooling systems with closed circuits, for operation with non-aggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according
"Ofix CEP" - Snap & Seal - 2-fo	ld for copper pipes	to VDI 2035/ÖNORM 5195).
according to DIN EN 1057, prec		Item no. 1016853 and 101686.:
according to DIN EN 10305-1/2 pipes, with double compression		Max. operating pressure p _s : 10 bar (PN 10)
one-piece pre-assembled, soft s reinforcing sleeves required)		Operating temperature t _s : 2 °C up to 120 °C Item no. 101684.:
10 mm 12 mm	(50) 1016840 (50) 1016841	Max. operating pressure p_s : 10 bar (PN 10) Operating temperature t_s : 2 °C up to 95 °C
14 mm	(50) 1016842	The "Ofix CEP" compression fittings - Snap &
15 mm	(50) 1016843	Seal - can also be used with galvanised steel pipes (DIN EN 10305-3):
16 mm 18 mm	(50) 1016844 (50) 1016845	 Geberit, Mapress C-steel system pipe (galvanised from outside)
"Ofix CEP" 2-fold for copper pip metal to metal sealing	oes according to DIN EN 1057,	 Seppelfricke, XPress C-steel pipe (galvanised from outside) Simplex, VSH C-steel pipe
10 mm	(50) 1016860	(galvanised from outside)
12 mm	(50) 1016861	- Viega, Prestabo steel pipe
14 mm 15 mm	(50) 1016862 (50) 1016863	(galvanised from outside) Attention:
16 mm	(50) 1016864	When installing copper pipes with a wall
18 mm	(50) 1016865	thickness of ≤ 1 mm, it is necessary to use reinforcing sleeves for the additional
		stabilisation of the pipe. Should the wall
		thickness exceed 1 mm, please contact the pipe manufacturer. Reinforcing sleeves for wall
		thickness = 1 mm: page 1.143.
		Exception: Reinforcing sleeves are not required for soft
		sealing compression fittings.
		Note: The pipes are not held by the soft sealing
		fitting, they have to be fixed additionally.
		Regarding stretching of the pipe ends, the instructions of the pipe manufacturers have to be observed.
"Ofix K" 2-fold for plastic pipes according to DIN 16892/16893, according to DIN 8078 A1, meta	PB according to DIN 16968, PP	The permissible operating pressures and operating temperatures depend on the application classes of the respective standands
		of the plastic pipework systems (e.g. PE-X, DIN
12 x 1.1 mm 12 x 2 mm	(10) 1016883 (10) 1016870	EN ISO 15875).
14 x 2 mm	(10) 1016873	
15 x 2.5 mm 16 x 1.5 mm	(10) 1016885 (10) 1016882	
16 x 1.5 mm	(10) 1016874	
17 x 2 mm	(10) 1016876	
18 x 2 mm 20 x 2 mm	(10) 1016877 (10) 1016879	
	. ,	

"Unofix" System for refurbishment of one pipe heating systems: Pages 1.99, 3.54 Single fittings: Page 1.141 $\,$

16 mm

18 mm

22 mm

Packing Article-No. Article Hint unit "Cofit S" Compression fittings Application: for G ¾ male thread according to DIN EN 16313 (cone "Euro") Central heating and cooling systems with universal application for composition pipe and, closed circuits, for operation with nonprovided similar preparation is used, aggressive, harmless fluids (e.g. water or for plastic pipe (PE-X-pipe) suitable water and glycol mixtures according 2-fold, metal to metal sealing plus O-ring, to VDI 2035/ÖNORM 5195). outlet made of bronze, The permissible operating pressures and compression ring and collar nut made of brass, collar nut nickel plated operating temperatures depend on the application classes of the respective standands of the plastic pipework systems (e.g. PE-X, DIN 14 x 2.0 mm x G ¾ collar nut (10) 1507934 EN ISO 15875). 16 x 2.0 mm x G ¾ collar nut (10)1507935 1507937 17 x 2.0 mm x G $\frac{3}{4}$ collar nut (10)18 x 2.0 mm x G ¾ collar nut 1507938 (10)1507939 20 x 2.0 mm x G ¾ collar nut (10)20 x 2.5 mm x G 3/4 collar nut (10)1507940 Brass reinforcing sleeves Is required for the installation of soft pipes with 6 mm (100) 2083951 a wall thickness of 1 mm. (100) **2083952** 8 mm 10 mm (100) **1029651** Diameters are related to the outer diameter of (100) **1029652** 12 mm the pipe. 14 mm (100)1029653 1029654 15 mm (50)

(50)

(50)

(50)

1029655 1029656

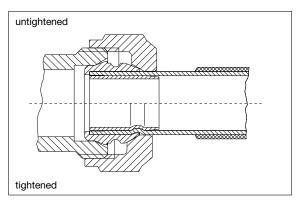
1029657

2017 1.143

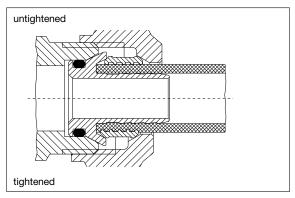
Room temperature and climate oventrop control / Hydronic balancing at the radiator

Connection of pipes, valves, radiators, distributors etc. for heating, sanitary and air conditioning by use of compression fittings

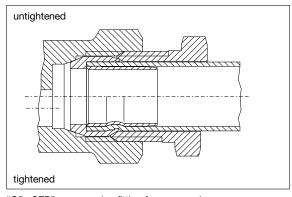
		Oventrop composition pipe "Copipe" and composition pipes of other manufacturers Ø 14 – Ø 20	Plastic pipe to DIN 4726, PE-X to DIN 16 892/16 893, PB to DIN 16 968, PP to DIN 80 78 A1 Ø 12 – Ø 20	Copper pipe DIN EN 1057 (DIN 1786)	Precision steel pipe DIN EN 10305-1 (DIN 2391) DIN EN 10305-2 (DIN 2393)	Stainless steel pipe	Brass reinforcing sleeves
uo	"Cofit S" outlet brass resistant to de-zincification compression ring brass	Ø 14 – Ø 20 page 11.32	Ø 14 – Ø 20 page 11.32 (only PE-X pipe)				
Compression fittings for male threaded connection G % according to DIN EN 16313 (cone "Euro")	"Ofix K" outlet and compression ring brass		Ø 12 – Ø 20 pages 1.141				
npression fittings for r	"Ofix CEP" soft seal "Snap & Seal"			Ø 10 – Ø 18 page 1.141	Ø 10 – Ø 18 page 1.141	Ø 10 – Ø 18 page 1.141	
Com	"Ofix CEP" compression ring brass			Ø 10 – Ø 18 page 1.141			
tings for female nection Rp ½	"Ofix CEP" compression ring brass			Ø 10 – Ø 16 page 1.141			for wall thickness = 1 mm page 1.143
Compression fittings for female threaded connection Rp ½	"Cofit S" outlet brass resistant to de-zincification compression ring brass	Ø 14 + Ø 16 Page 11.32					



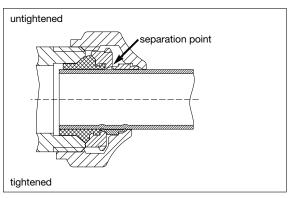
"Ofix CEP" compression fitting for copper pipe, metal to metal sealing, male threaded connection



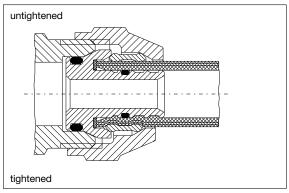
"Ofix K" compression fitting for plastic pipe, male threaded connection



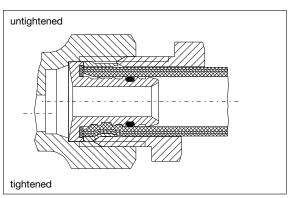
"Ofix CEP" compression fitting for copper pipe, metal to metal sealing, female threaded connection



"Ofix CEP" compression fitting "Snap & Seal" for copper, precision steel and stainless steel pipe, soft sealing, male threaded connection



"Cofit S" compression fitting, universal application for "Copipe" composition pipe, and, in case of identical processing, also for PE-X plastic pipe, male threaded connection



"Cofit S" compression fitting for composition pipe, female threaded connection

2017 1.145

Pipes	Connection method	Connection system	m	Male threaded connection
	metriod	Connection fitting	Additional fitting	Oventrop valves (examples)
Copper pipe, stainless steel pipe, precision steel pipe	Screwed connection	Collar nut, compression ring and ring gasket for G ¾ M according to DIN EN 16313 (cone "Euro"), soft sealing Item no. 102744. Page 1.141	-	Radiator valves
	Screwed connection	Collar nut and compression ring for G ³ / ₄ M according to DIN EN 16313 (cone "Euro"), metal to metal sealing Item no. 102747. Page 1.141	Connection piece Item no. 15030 Page 11.32	Valves for hydronic balancing
Copper pipe 1)		tem no. 10610 Page 3.45	-	Valves for hydronic balancing
	Soldering connection	Item no. 42020 Page 8.66	-	Valves for water distribution
Stainless steel pipe	Press connection	Item no. 42015 Page 8.69	-	Valves for hydronic balancing and valves for water distribution
		Collar nut, compression ring	-	Radiator valves
PE pipe	Screwed connection	and outlet for G ¾ M according to DIN EN 16313 (cone "Euro") Item no. 10277, Page 1.141	Connection piece Item no. 15030 Page 11.32	Valves for hydronic balancing and valves for water distribution
	Screwed connection	Item no. 1016304 Page 1.123 Item no. 10693 Page 1.89 only three-way conversion valves	-	Radiator valves
		Item no. 10613 Page 3.45 Item no. 10614 Page 3.45	-	Valves for hydronic balancing
Steel pipe as well as screwed fittings		Item no. 42013 Page 8.66 Item no. 42014 Page 8.66	-	Valves for water distribution
		Item no. 10193 Page 1.93 only three-way conversion valves	-	Radiator valves
	Welding connection	Item no. 10605 Page 3.45	-	Valves for hydronic balancing
		Item no. 42005 Page 8.66	-	Valves for water distribution
Other pipes e. g. stainless steel pipe, thick walled plastic pipe	All other pipe	s - with their special connection - m and collar nuts) to Oventrop		ith flat sealing tailpipes (with ring gaskets ale threaded valves.

¹⁾ Pipes with a wall thickness of \leq 1 mm will need reinforcing sleeves, except when the soft sealing fitting 102744. is used! Page 1.141.

Pipes	Connection Connection system method			Female threaded connection		
00	memod	Connection fitting	Additional fitting	Oventrop valves (examples)		
Copper pipe		Compression nut and compression ring Item no. 10281 for Rp ½ F Page 1.140 Exception: Single fittings "Multiflex", thermostatic valves "RF/RFV6", manual valves "HRV" with reduced dimensions and return temperature limiter valves Compression nut and	-	Radiator valves		
1)	Item. no. 10271	compression ring Item. no. 10271 for Rp 3/4 - Rp 3/4 F, Page 1.140 Exception:		Valves for hydronic balancing		
Copper pipe, stainless steel pipe, precision steel pipe	Screwed connection	Collar nut, compression ring and ring gasket for G 3/4 M according to DIN EN 16313 (cone "Euro"), soft sealing Item. no. 102744. Page 1.141	Double nipple			
PE pipe thin walled plastic pipe		Collar nut, coompression ring and outlet for G 3/4 M according to DIN EN 16313 (cone "Euro") Item. no. 10277 Page 1.141		Valves for water distribution		
Steel pipe as well as screwed fittings		Seal directly				
Other pipes e. g. stainless steel pipe, thick walled plastic pipe		All other pipes - with their special connection - may be connected with nipples to Oventrop female threaded valves.				

¹⁾ Pipes with a wall thickness of ≤ 1 mm will need reinforcing sleeves, except when the soft sealing fitting 102744. is used! Page 1.141.