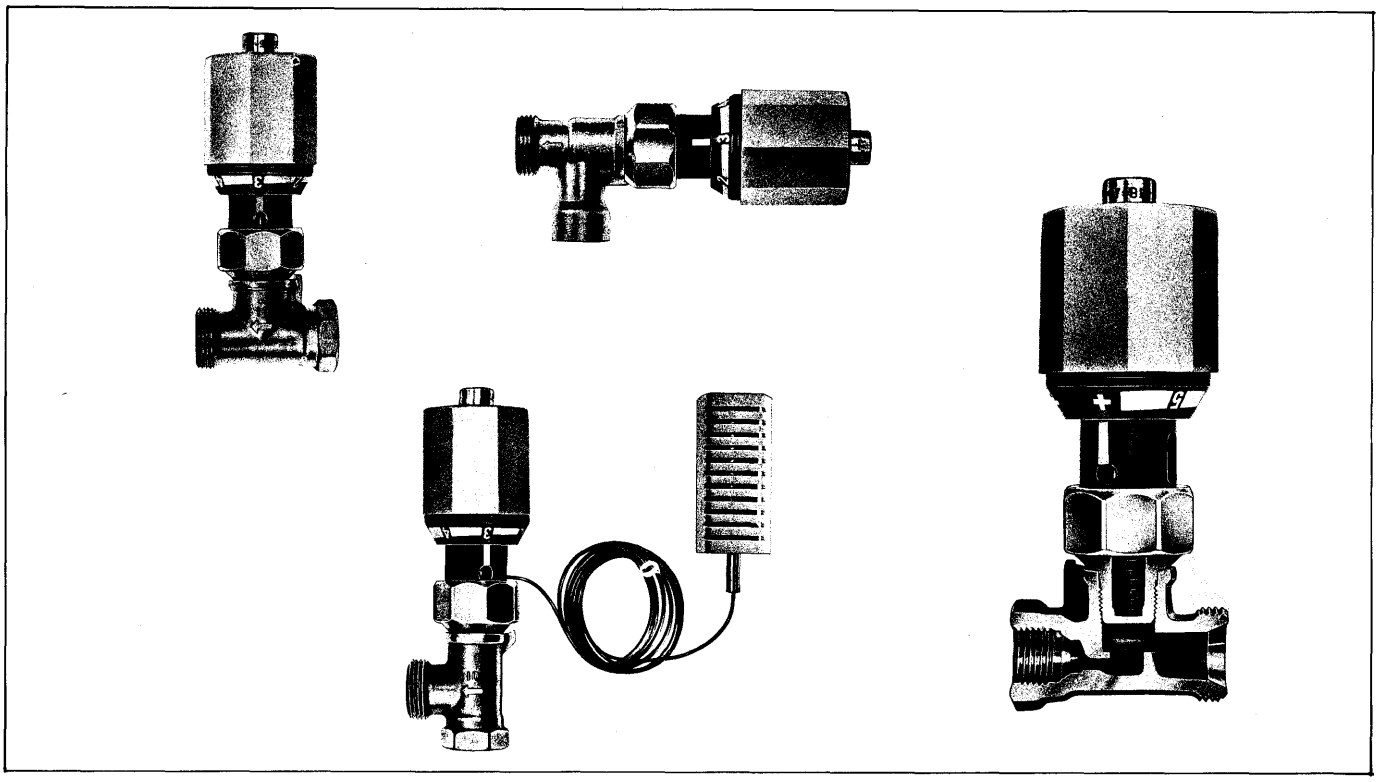
THERMOSTATICALLY CONTROLLED RADIATOR VALVE RVT



- The RTV thermostatically controlled radiator valve is intended for use with 2-pipe pump-circulated hot water systems and is very effective in keeping the room temperature at a constant value and saving energy.
- On delivery the valve is provided with a plastic protecting cap by means of which the valve can be controlled by hand until the thermostat unit is fitted. If there is to be a long period of hand control before fitting of the thermostat unit, handwheel 75 344–001 is recommended.
- The RVT has a valve body of die cast AMETAL® with bonnet of brass and spindle of stainless steel. Spindle sealing is by means of an O-ring which can be replaced if necessary without having to drain off the system.
- The sensing element, which is in the upper part of the handwheel contains an expansion medium consisting of wax and pulverised copper.
  The thermostat acts on the valve cone which regulates the water flow and thereby the heat given off by the radiator.
  All parts between the valve body and sensing element are made of heat-insulating material and are well ventilated to prevent heat from the valve affecting the sensing element.
- The desired temperature is set with the handwheel, the scale of which is marked 1–5. Alteration of the temperature is made by turning the handwheel towards the (+) or (–) positions. The temperature range can be limited to a maximum or minimum. The valve can also be locked at the desired temperature to prevent unauthorised adjustment.

Type	Art.No.
Valve body, straight (RVT 58)	75 321
Valve body, angled (RVT 57)	75 323
Valve body, reverse angle for horizontal head (RVT 59)	75 324
Thermostat unit, fixed sensor (No. 50)	75 341
Thermostat unit, remote sensor (No. 60)	75 342
Thermostat unit, remote head (No. 90)	75 346
Handwheel (No. 55)	75 344
Straight union	50 701
Bent union	50 702

All types of RVT valves can be connected to smooth tubes by means of the KOMBI compression coupling.

The KOMBI compression coupling consists of a thrust screw and cone. A support sleeve must be used. For further information, see the KOMBI sheets under section 4.

For connecting dimensions, see the following pages.

Application: Heating installations, primarily for 2-pipe systems with pump circulation.

Temperature range: 12–26° C (54–79° F)

Regulation accuracy: Within ± 1° C (± 1.8° F)

Max. static pressure: 10 bar = 1.0 MPa ≈ 150 psi

Max. differential pressure: Connection 10: 10 m WG ≈ 100 kPa = 1 bar (14.2 lbf/in^2)
Connections 15 and 20: 5 m WG ≈ 50 kPa = 0.5 bar (7.1 lbf/in^2)
Higher differential pressure can be permitted. (The above values refer to acceptable noise level.)

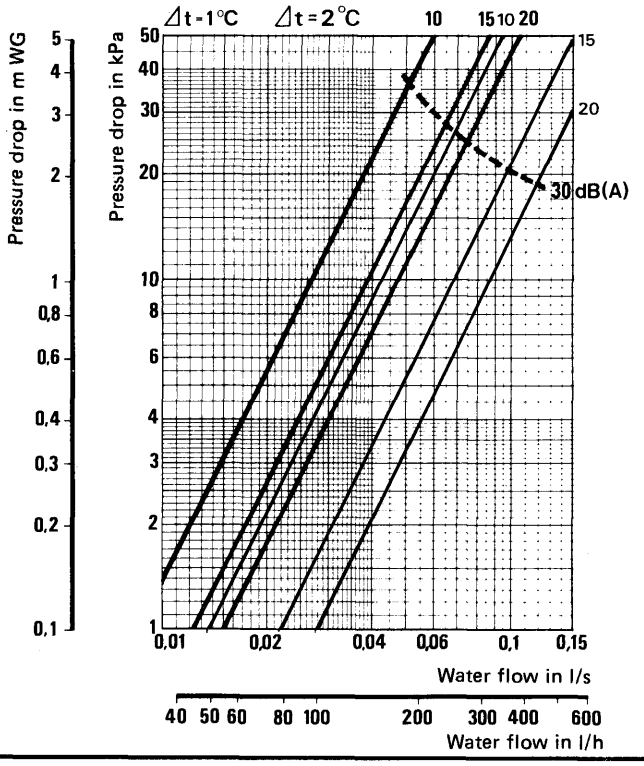
Max. working temperature: + 90° C (194° F)
(Thermostat unit must not be subjected to a surface temperature higher than + 50° C (122° F) or lower than – 15° C (59° F.)

Surface treatment: Nickel-plated

Length of capillary tube: 2 m, 5 m or 8 m. Applicable for valves with separate sensing element.

Packing: The valves are packed in cardboard boxes according to packing list.

Pressure drop: The lines indicate the pressure drop in the valves at a temperature difference of 1° C (1.8° F) and 2° C (3.6° F) respectively between room temperature and the value set on the valve.
The size of valve is selected so that the necessary water flow is supplied to the radiator at a max. available temperature difference of 2° C (3.6° F).



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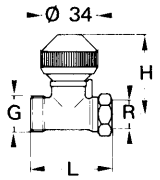
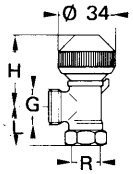
75 321 (RVT 58)
Valve body straight



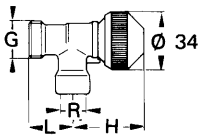
Article number	Conn. DN	L	H	R	G	Weight kg
75 321–610	10	50	49	3/8	M22x1,5	0,16
–615	15	58	50	1/2	M26x1,5	0,21
–620	20	68	51	3/4	M34x1,5	0,28

75 323 (RVT 57)
Valve body, angle



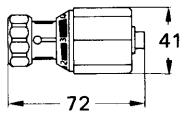
75 323–610	10	21	49	3/8	M22x1,5	0,16
–615	15	24	50	1/2	M26x1,5	0,18
–620	20	29	51	3/4	M34x1,5	0,25

75 324 (RVT 59)
Valve body, reverse angle for horizontal head



75 324–610	10	22	45	3/8	M22x1,5	0,16
–615	15	26	49	1/2	M26x1,5	0,19
–620	20	31	52	3/4	M34x1,5	0,26

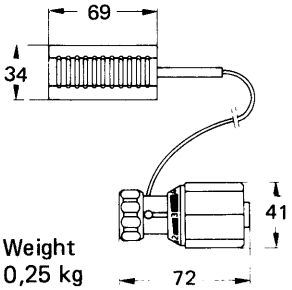
75 341 (No. 50)
Thermostat head, fixed sensor



Weight 0.12 kg

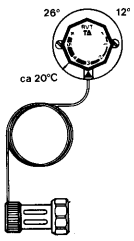
75 341–001	12–26° C (54–79° F)
–021*	max 21° C (70° F)
–022*	max 22° C (72° F)
Angled type – 75 347–001	12–26° C (54–79° F)

75 342 (No. 60)
Thermostat unit, remote sensor



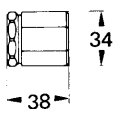
Weight 0,25 kg

75 346 (No. 90)
Thermostat unit, remote head



		Length of capillary tube
75 342–001	12–26° C (54–79° F)	2 m
–021	max 21° C (70° F)	2 m
–022	max 22° C (72° F)	2 m
–051	12–26° C (54–79° F)	5 m
–081	12–26° C (54–79° F)	8 m
75 346–001	12–26° C (54–79° F)	2 m

75 344 (No. 55)
Handwheel

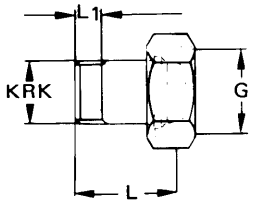


Weight 0.02 kg

75 344–001

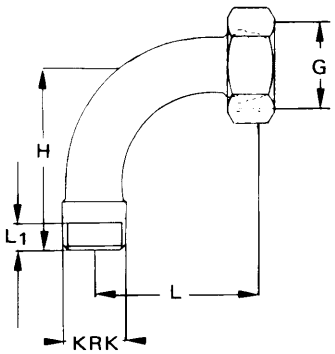
* Thermostat units with max. limitation to other temperatures can be supplied to special order.

50 701
Straight union



Article number	Conn. DN	L	L_1	H_1	KRK	G	Weight kg
50 701–110	10	25	8	21	3/8	M22x1,5	0,05
–115	15	30	10	24	1/2	M26x1,5	0,09
–120	20	34	11	29	3/4	M32x1,5	0,14

50 702
Bent union



50 702–110	10	44	8	48	3/8	M22x1,5	0,11
–115	15	46	10	56	1/2	M26x1,5	0,15
–120	20	51	11	65	3/4	M34x1,5	0,24

All valves can be connected to smooth tubes by means of KOMBI compression couplings

Connection R	Pipe (mm)
3/8"	8, 10, 12
1/2"	8, 10, 12, 15, 16
3/4"	15, 16, 18, 22

KOMBI ordered separately.
When ordering, specify article number of KOMBI coupling (58 235), connection R and pipe (mm).
Example: 53 235–10x8. Further information concerning KOMBI couplings can be found under section 4.

R = Cylindrical pipe thread
KRK = Short tapered pipe thread
H = Fully open valve

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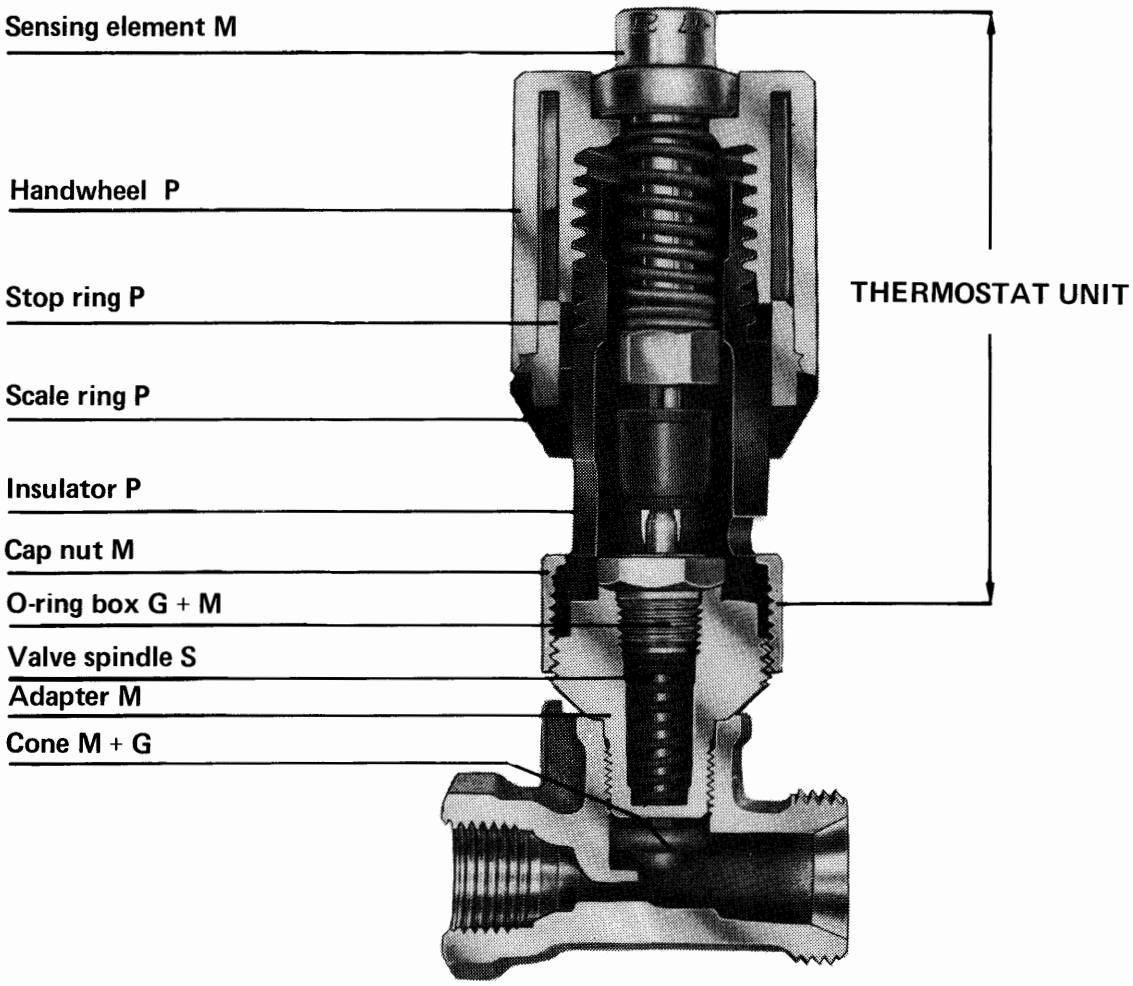

Material:
M = Metal
P = Plastic
G = Rubber
S = Steel (stainless)