

# RadCon

DN10-DN20

## Application

RadCon is a pressure independent Radiator Valve (PIRV) for use in 2-pipe radiator systems.

Combined with the elegant thermostatic sensor head RadCon provides optimal comfort along with the highest energy efficiency and easy commissioning.

The valve can be preset from 20 l/h to 340 l/h (0.006 l/s to 0.094 l/s) and provides modulating control regardless of any fluctuations in the differential pressure of the radiator system .

It combines an externally adjustable presetting, a differential pressure controller and a modulating radiator valve.

100% control of the water flow in the building is achieved easily, while creating high comfort and energy savings. At the same time maximizing the  $\Delta T$  is possible due to the increased system stability.



## Benefits

### Design

- Less time to define and select the right presetting. Just set the required flow for the radiator. No KV calculation needed
- Flexibility if the system is modified after the initial installation

### Installation

- No further regulating valves required in the radiator system when the differential pressure does not exceed 70 kPa
- Minimized commissioning time due to automatic balancing of the system
- Simplified radiator system design
- Thermostatic sensor with M30x1.5 thread or RA-connection

### Operation

- High comfort for end-users due to high precision temperature control
- Anti-frost thermostatic head protects the system and reduces the risk of mould
- No flow noise due to the built in differential pressure controller in the valve
- No overflow through the radiator ensuring the optimal  $\Delta T$  in the radiator system
- Easy maintenance - replacable internals

## Features

- The constant differential pressure across the modulating control component guarantees 100% authority
- Automatic balancing eliminates overflows, regardless of fluctuating pressure conditions in the system
- Thermostatic sensor head with small dimension
- Differential pressure up to 70 kPa
- Complete programme DN10-DN20
- Theft protection of thermostatic head

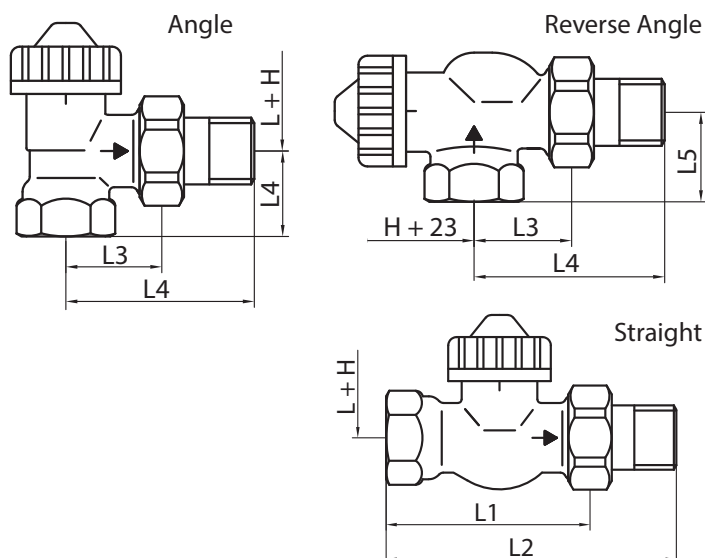
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## RadCon Radiator Valve

### Technical Data

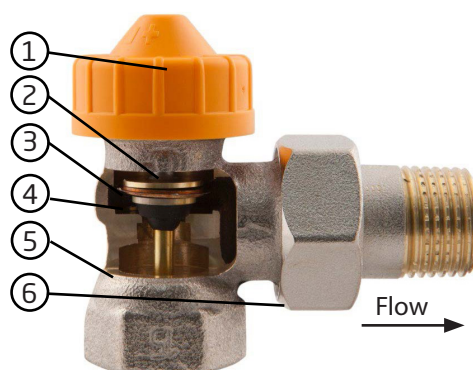
<b>Valve housing:</b>	Red Bronze
<b>Spindle:</b>	Stainless steel
<b>Spring:</b>	Stainless steel
<b>O-rings:</b>	EPDM
<b>Pressure class:</b>	PN10
<b>Flow range:</b>	20 – 340 l/h
<b>Min. differential pressure</b>	15 kPa
<b>Max. differential pressure:</b>	70 kPa
<b>Medium temperature range:</b>	0°C to 90°C
<b>Thread:</b>	ISO 228
<b>Closing dimension:</b>	12.0 mm (+0/-0.2)
<b>Stroke:</b>	0.8 mm
<b>Max. actuator force:</b>	120 N



### Dimensions

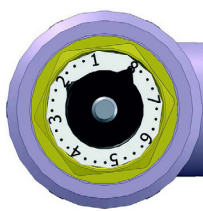
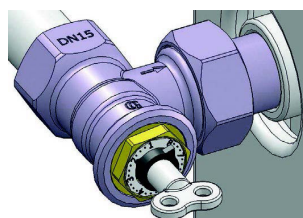
Dimension	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	H [mm] Thermostat height
DN10 (3/8")	23	59	85	26	52	25	80
DN15 (1/2")	23	66	95	29	58	26	80
DN20 (3/4")	23	74	106	34	66	29	80

### Cut View



1. Protective cap
2. Spindle
3. Modulating valve stem
4. Differential pressure controller
5. Valve housing
6. Coupling

### Presetting Flow



Example: Presetting in position 8

Preset	1	1.	1..	1...	2	2.	2..	2...	3	3.	3..	3...	4	4.	4..	4...	5	5.	5..	5...	6	6.	6..	6...	7	7.	7..	7...	8
Flow [l/h]	20	20	25	25	35	40	45	55	65	80	90	100	115	135	145	160	170	185	200	215	230	245	260	275	290	300	315	330	340

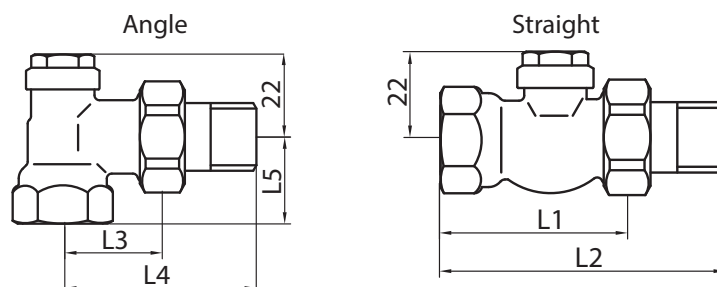
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### RadCon Lock Shield Valve

#### Technical Data

<b>Valve housing:</b>	Red Bronze
<b>Pressure class:</b>	PN10
<b>Kvs value</b>	1.1
<b>Medium temperature range:</b>	0°C to 120°C
<b>Thread:</b>	ISO 228



#### Drain:

In connection with the Lockshield vales, the accessory RadCon Drain can be installed for emptying the radiator

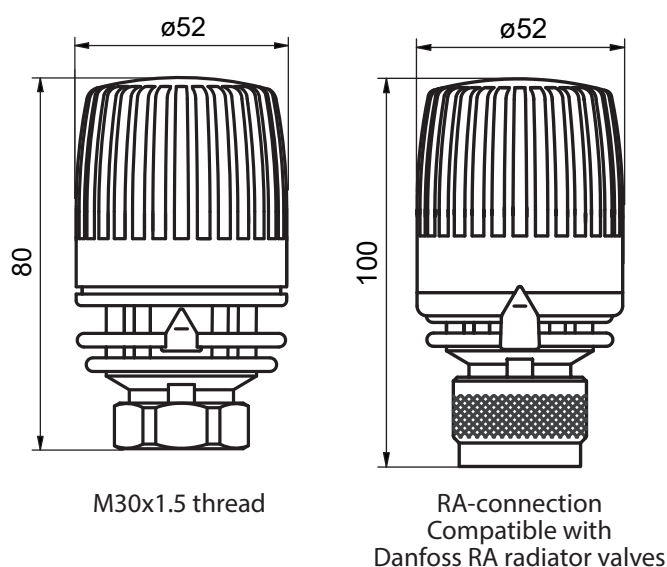
#### Dimensions

Dimension	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]
DN15 (1/2")	51	80	29	58	26
DN20 (3/4")	59	91	34	66	29

### RadCon Thermostatic Head

#### Technical Data

<b>Housing:</b>	Plastic, white RAL 9016
<b>Connection:</b>	Brass nickel plated
<b>Ambient temperature:</b>	-10°C to 50°C
<b>Connection:</b>	M30x1.5 thread or RA-connection



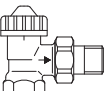
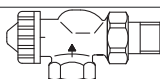

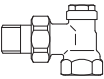
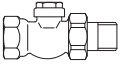


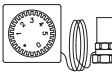


#### Presetting temperature

Preset	*	1	2	3	4	5
Temperature	6°C	14°C	17°C	20°C	23°C	26°C

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

## Produkt Programme

	Type	Dimension	Frese no.
	RadCon Radiator Valve Angle	DN10 (3/8")	38-1101
		DN15 (1/2")	38-1102
		DN20 (3/4")	38-1103
	RadCon Radiator Valve Reverse angle	DN15 (1/2")	38-1107
	RadCon Radiator Valve Straight	DN10 (3/8")	38-1111
		DN15 (1/2")	38-1112
		DN20 (3/4")	38-1113
	RadCon Lock Shield Valve Angle	DN15 (1/2")	38-5102
		DN20 (3/4")	38-5103
	RadCon Lock Shield Valve Straight	DN15 (1/2")	38-5112
		DN20 (3/4")	38-5113
	RadCon Thermostatic Head M30x1.5 thread	-	38-9000
	RadCon Thermostatic Head Anti frost M30x1.5 thread	-	38-9001
	RadCon Thermostatic Head Remote sensor, M30x1.5 thread	Capillary length: 2 m	38-9013
	RadCon Remote Preset and Sensor M30x1.5 thread	Capillary length: 2 m	38-9010
		Capillary length: 5 m	38-9011
	RadCon Thermostatic Head RA connection	-	38-9002
	RadCon Thermostatic Head Remote sensor, RA connection	Capillary length: 2 m	38-9012

## RadCon

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### Accessories

	Type	Dimension	Frese no.
	RadCon Theft Protection for Thermostatic Head	-	38-9020
	RadCon Setting Key	-	38-9021
	RadCon Radiator Drain Valve for Lock Shield Valves	-	38-9022
	Thermic Actuator On/Off 24V NC	-	48-5525
	Thermic Actuator On/Off 230V NC	-	48-5526

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