

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 ΔT 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 ΔT 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

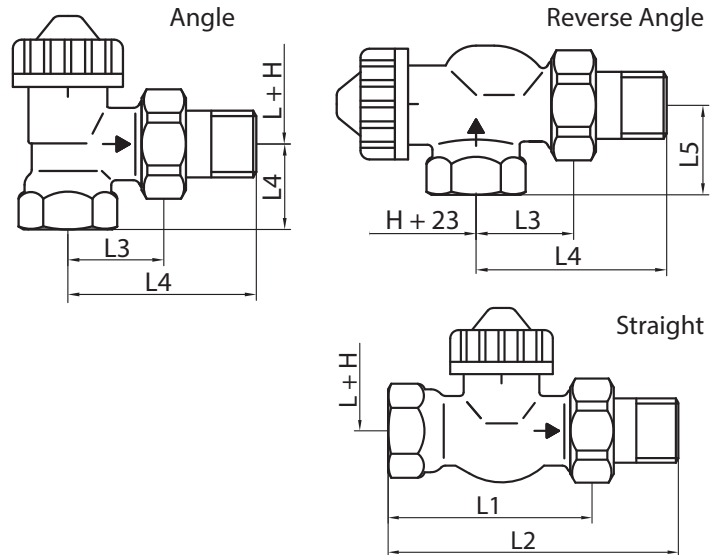
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RadCon Radiator Valve

Technical Data

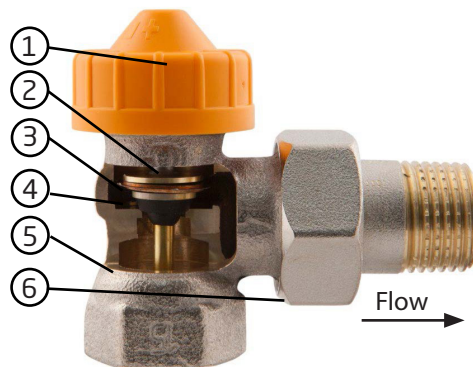
Valve housing:	Red Bronze
Spindle:	Stainless steel
Spring:	Stainless steel
O-rings:	EPDM
Pressure class:	PN10
Flow range:	20 – 340l/h
Min. differential pressure	15 kPa
Max. differential pressure:	70 kPa
Medium temperature range:	0°C to 90°C
Thread:	ISO 228
Closing dimension:	12.0 mm (+0/-0.2)
Stroke: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



Dimensions

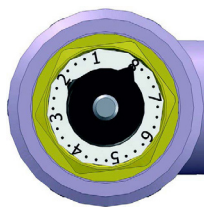
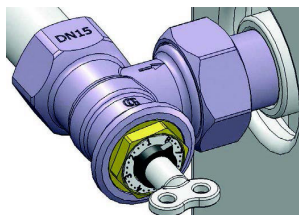
Dimension	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	H [mm] Thermostat height
DN10 (3/8")	23	59	85	26	52	25	80
DN15 (1/2")	23	66	95	29	58	26	80
DN20 (3/4")	23	74	106	34	66	29	80

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

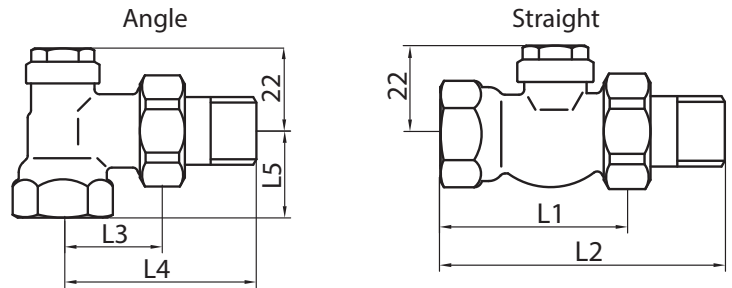
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RadCon Lock Shield Valve

Technical Data

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



Drain:

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

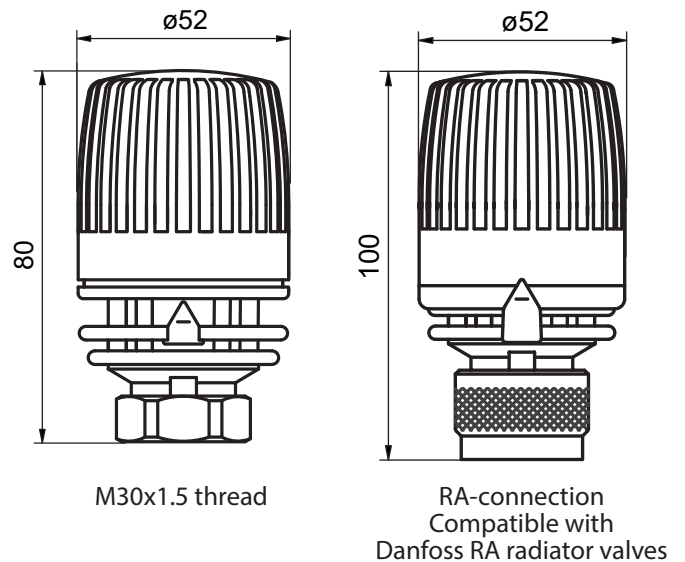
Dimensions

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

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



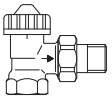
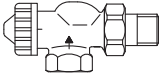
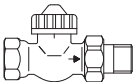
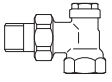
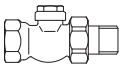


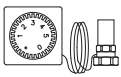


Presetting temperature

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

	Product	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
	Product	Type / Connection	Capillary length	Frese no.
	RadCon Thermostatic Head	M30x1.5	-	38-9000
		Anti frost / M30x1.5	-	38-9001
		Tamper proof / M30x1.5	-	38-9003
	RadCon Thermostatic Head	Remote sensor / M30x1.5	2 m	38-9013
		Tamper proof Remote sensor / M30x1.5		38-9014
	RadCon Remote Preset	Remote Preset and Sensor / M30x1.5	2 m	38-9010
			5 m	38-9011
	RadCon Thermostatic Head	RA	-	38-9002
	RadCon Thermostatic Head	Remote sensor / RA	2 m	38-9012

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Accessories

	Product	Type	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
		On/Off, 230V NC	48-5526

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