

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 thermosatic 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

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- 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

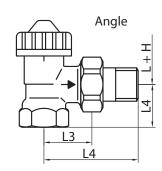
Technical Data

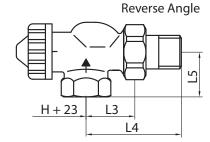
Valve housing: Red Bronze Stainless steel Spindle: **Spring:** Stainless steel

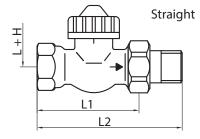
O-rings: **EPDM Pressure class:** PN10 20 - 340l/h Flow range: 15 kPa Min. differential pressure Max. differential pressure: 70 kPa **Medium temperature range:** 0°C to 90°C Thread: ISO 228

Closing dimension: 12.0 mm (+0/-0.2)

Stroke: 0.8 mm Max. actuator force: 120 N



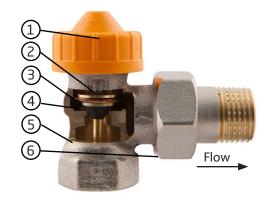




Dimensions

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



- Protective cap
- Spindle
- Modulating valve stem
- Differential pressure controller
- Valve housing
- 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



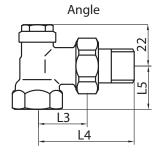
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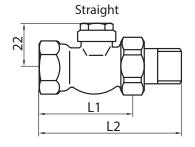
RadCon Lock Shield Valve

Technical Data

Valve housing:Red BronzePressure class:PN10Kvs value1.1

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

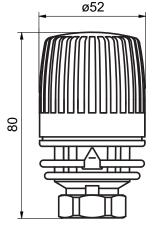
Dimension	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]
DN15 (1/2")	51	80	29	58	26
DN20 (3/4")	59	91	34	66	29

RadCon Thermostatic Head

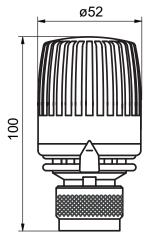
Technical Data

Housing:Plastic, white RAL 9016Connection:Brass nickel platedAmbient temperature:-10°C to 50°CConnection:M30x1.5 thread or

RA-connection



M30x1.5 thread



RA-connection Compatible with Danfoss RA radiator valves

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	Туре	Dimension	Frese no.		
			DN10 (3/8")	38-1101		
*	RadCon Radiator Valve	Angle	DN15 (1/2")	38-1102		
			DN20 (3/4")	38-1103		
	RadCon Radiator Valve	Reverse Angle	DN15 (1/2")	38-1107		
			DN10 (3/8")	38-1111		
	RadCon Radiator Valve	Straight	DN15 (1/2")	38-1112		
			DN20 (3/4")	38-1113		
	RadCon Lock Shield Valve	Angle	DN15 (1/2")	38-5102		
	RAGCOTI LOCK STITEID VAIVE	Angie	DN20 (3/4")	38-5103		
	RadCon Lock Shield Valve	Straight	DN15 (1/2")	38-5112		
	NauCon Lock Siliela valve	Straight	DN20 (3/4")	38-5113		
	Product	Type / Connection	Capillary length	Frese no.		
	Product	Type / Connection M30x1.5	Capillary length	Frese no. 38-9000		
	Product RadCon Thermostatic Head		Capillary length - -			
		M30x1.5	Capillary length	38-9000		
	RadCon Thermostatic Head	M30x1.5 Anti frost / M30x1.5	-	38-9000 38-9001		
		M30x1.5 Anti frost / M30x1.5 Tamper proof / M30x1.5	Capillary length - - - 2 m	38-9000 38-9001 38-9003		
	RadCon Thermostatic Head RadCon Thermostatic Head	M30x1.5 Anti frost / M30x1.5 Tamper proof / M30x1.5 Remote sensor / M30x1.5 Tamper proof	-	38-9000 38-9001 38-9003 38-9013		
	RadCon Thermostatic Head	M30x1.5 Anti frost / M30x1.5 Tamper proof / M30x1.5 Remote sensor / M30x1.5 Tamper proof Remote sensor / M30x1.5	- - - 2 m	38-9000 38-9001 38-9003 38-9013 38-9014		
	RadCon Thermostatic Head RadCon Thermostatic Head	M30x1.5 Anti frost / M30x1.5 Tamper proof / M30x1.5 Remote sensor / M30x1.5 Tamper proof Remote sensor / M30x1.5 Remote Preset and Sensor	2 m	38-9000 38-9001 38-9003 38-9013 38-9014 38-9010		

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Accessories

 Product	Туре	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
mermic Actuator	On/Off, 230V NC	48-5526

Vexve Denmark | Frese A/S Tel: +45 58 56 00 00