

# Standard C



## **Thermostatic Radiator Valve**

Thermostatic valve body with reversed direction of operation



*Engineering  
GREAT Solutions*

# Standard C

The Standard C thermostatic valve body with reversed direction of operation is used for individual room-temperature control in cooling systems. The valve is used, for instance, with the remote-dial thermostatic head F or the thermostatic head K with its remote sensor. When the room temperature rises, the thermostatic heads open the valve. That makes proportional controlling simple and easy, without auxiliary power.



## Key features

- > **For cooling-control without auxiliary power**
- > **Corrosion-resistant gunmetal body, nickel-plated**
- > **Universal connection possibilities**
- > **For all IMI Heimeier thermostatic heads and actuators**

## Technical description

Thermostatic valve bodies Standard C with reversed direction of operation and a yellow protection cap fit all IMI Heimeier thermostatic heads and actuators.

The stainless spindle is equipped with a double O-ring sealing. The outer O-ring can be exchanged under pressure. With the IMI Heimeier fitting tool, the complete thermostatic insert can be exchanged without draining the system.

The corrosion-resistant gunmetal body with a female thread is designed for being connected to a threaded pipe or, in combination with compression fittings, to a copper, precision steel, or multi-layer pipe (only DN 15). The models with a male thread on both sides can also be connected to a plastic pipe when combined with suitable compression fittings.

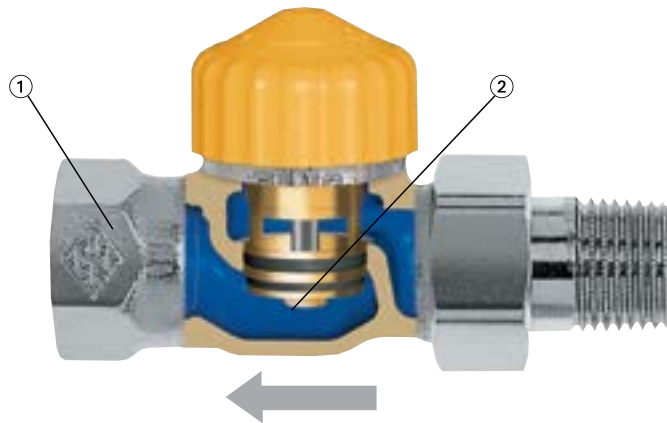
For IMI Heimeier thermostatic valve bodies, use only the attendant, designated IMI Heimeier compression fittings (designation e. g. 15 THE).

Adm. operating temperature TB 120 °C.  
Adm. operating over-pressure PB 10 bar,  
low pressure steam 110 °C /0.5 bar.

## Assembly

### Standard C

The valve disc is under the valve seat.  
The valve opens when the spindle is pushed in.



1. Corrosion-resistant gunmetal body
2. Valve disc

## Application

The Standard C thermostatic valve body with reversed direction of operation is used for individual room-temperature control in cooling systems.

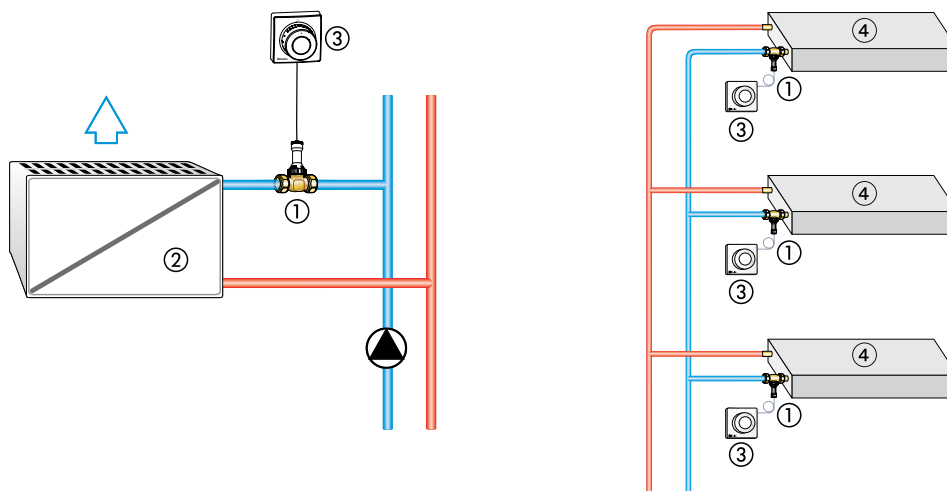
The valve is used, for instance, with the remote-dial thermostatic head F or the thermostatic head K with its remote sensor.

When the room temperature rises, the thermostatic heads open the valve. That makes proportional controlling simple and easy, without auxiliary power.

Here are some examples of where the thermostatic valve body is used:

- fan/coil units
- induction equipment
- ceiling cooling systems

### Sample application



1. Standard C thermostatic valve body
2. Fan/coil unit
3. Thermostatic head F remote dial
4. Ceiling cooling system

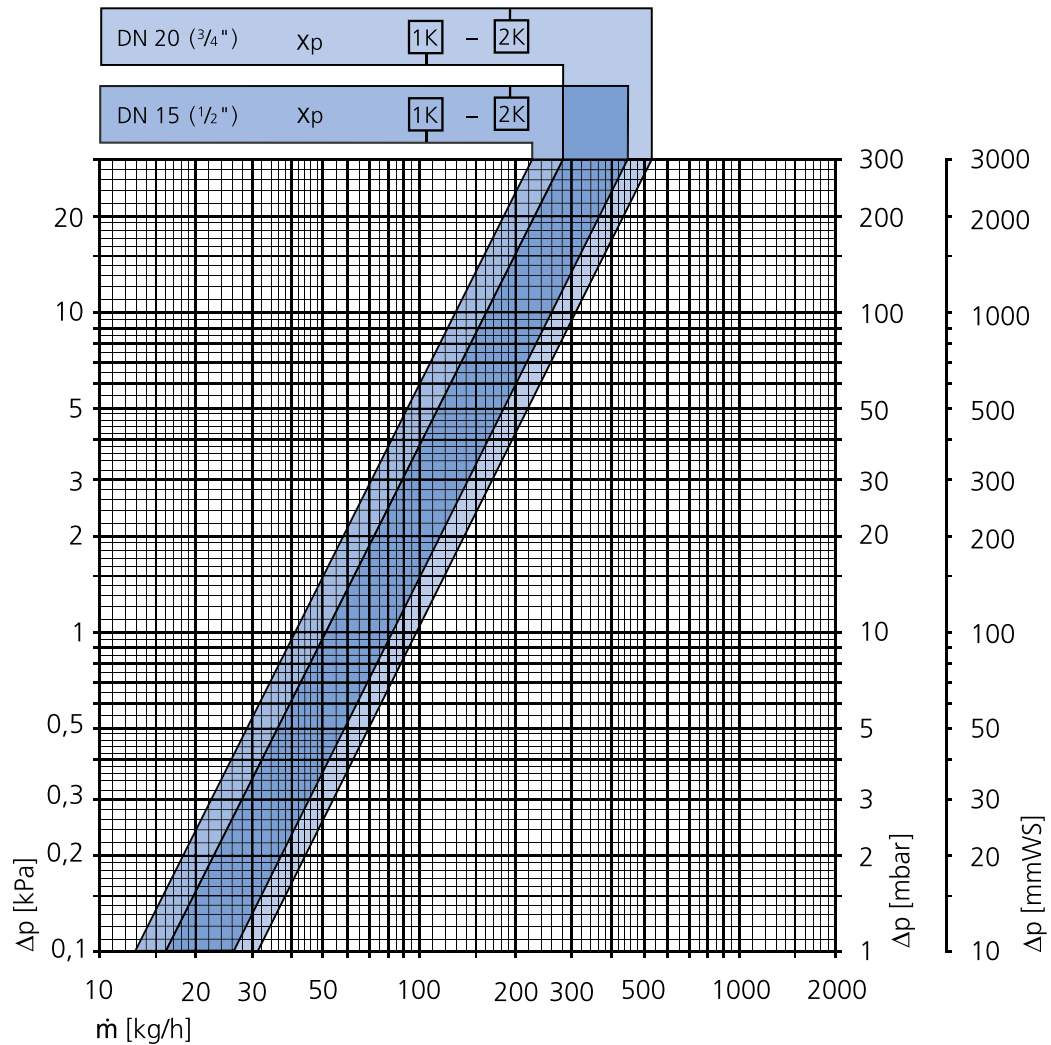
### Information

– To prevent damage and incrustation in hot water heating systems, the composition of the heat transfer medium should meet VDI [German Engineer Association] directive 2035. The instruction leaflet of the VdTÜV [German Association of Technical Inspection Authorities] “1466/AGFW-Arbeitsblatt FW 510” must be observed for industrial and long-distance energy systems. Mineral oil or mineral-oil based lubricants of all kinds in the heat transfer medium lead to considerable swelling and, in most cases, to a failure of EPDM seals.

When using non-nitrite anti-freeze and anti-corrosive agents based on ethylene glycol, please read the respective particulars – especially on the concentration of the individual additives – in the manufacturer’s documentation.

– The thermostatic valve bodies fit all IMI Heimeier thermostatic heads as well as all thermal and motorized actuators. The individual components are brought into line perfectly to ensure a maximum degree of safety. When using actuators of other manufacturers, make sure their pressure power in the closing zone is adjusted to thermostatic valve bodies with soft-sealing valve discs.

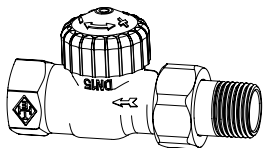
## Technical data



### Valve body with thermostatic head

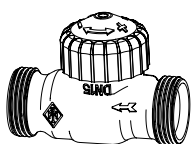
		Kv -value Control difference [K]			Kvs	Admissible operating temperature TB*) [°C]	Admissible operating over- pressure PB [bar]	Admissible differential, pressure under which the valve still closes $\Delta p$ [bar]
		0,5	1,0	2,0				
DN 15	(1/2")	0,14	0,41	0,82	2,18	120	10	1,20
DN 20	(3/4")	0,26	0,51	0,98	4,55	120	10	0,75

## Articles



## Straight

DN		Kv [xp] 1 K / 2 K	Kvs	EAN	Art.-Nr.
15	(Rp 1/2 x R 1/2)	0,41 / 0,82	2,18	4024052510023	4210-02.000
20	(Rp 3/4 x R 3/4)	0,51 / 0,98	4,55	4024052510122	4210-03.000

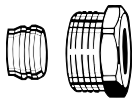


## Straight G 3/4 x G 3/4

DN		Kv [xp] 1 K / 2 K	Kvs	EAN	Art.-Nr.
15	(G 3/4 x G 3/4)	0,41 / 0,82	2,18	4024052525324	4212-02.000

Compression fittings: see Accessories.

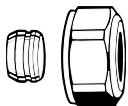
## Accessories



### Compression fitting

for copper or precision steel pipe according to DIN EN 1057/10305-1/2. Female thread connection Rp 1/2 – Rp 3/4. Metal-to-metal joint. Brass nickel-plated. Support sleeves should be used for a pipe wall thickness of 0.8 – 1 mm. Follow the specifications of the pipe manufacturer.

Ø Pipe	DN	EAN	Article No
15	15 (1/2")	4024052175017	2201-15.351
16	15 (1/2")	4024052175116	2201-16.351
18	20 (3/4")	4024052175215	2201-18.351



### Compression fitting

for copper or precision steel pipe according to DIN EN 1057/10305-1/2. Connection male thread G 3/4 according to DIN EN 16313 (Eurocone). Metal-to-metal joint. Brass nickel-plated. With a pipe wall thickness of 0.8-1 mm insert supporting sleeves. Heed pipe manufacturer's technical advice.

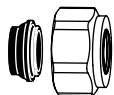
Ø Pipe	EAN	Article No
12	4024052214211	3831-12.351
15	4024052214617	3831-15.351
16	4024052214914	3831-16.351
18	4024052215218	3831-18.351



### Support sleeve

for copper or precision steel pipe with a 1 mm wall thickness. Brass.

Ø Pipe	L	EAN	Article No
12	25,0	4024052127016	1300-12.170
15	26,0	4024052127917	1300-15.170
16	26,3	4024052128419	1300-16.170
18	26,8	4024052128815	1300-18.170



### Compression fitting

for copper or precision steel pipe according to DIN EN 1057/10305-1/2. Connection male thread G 3/4 according to DIN EN 16313 (Eurocone). Soft sealed, max. 95°C. Nickel-plated brass.

Ø Pipe	EAN	Article No
15	4024052515851	1313-15.351
18	4024052516056	1313-18.351



### Compression fitting

for plastic pipe according to DIN 4726, ISO 10508. PE-X: DIN 16892/16893, EN ISO 15875; PB: DIN 16968/16969. Connection male thread G 3/4 according to DIN EN 16313 (Eurocone). Nickel plated brass.

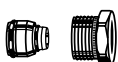
Ø Pipe	EAN	Article No
14x2	4024052134618	1311-14.351
16x2	4024052134816	1311-16.351
17x2	4024052134915	1311-17.351
18x2	4024052135110	1311-18.351
20x2	4024052135318	1311-20.351



### Compression fitting

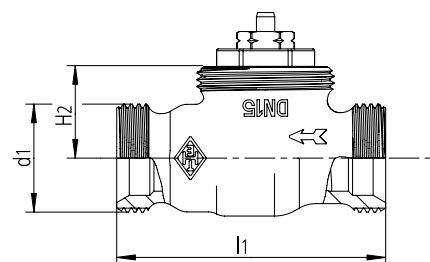
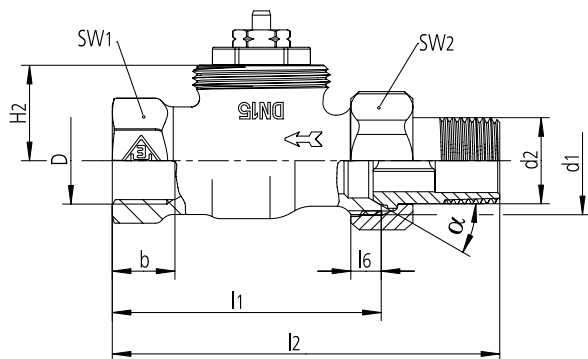
for Alu/PEX multi-layer pipe according to DIN 16836. Nickel-plated brass.

Ø Pipe	EAN	Article No
<b>Male thread connection G 3/4 according to DIN EN 16313 (Eurocone).</b>		
16x2	4024052137312	1331-16.351
<b>Female thread connection Rp 1/2</b>		
16x2 *)	4024052138616	1335-16.351



\*) can be used for valve from 04.1995

## Dimensions



DN	D	b	d <sub>1</sub>	d <sub>2</sub>	l <sub>1</sub> ±2	l <sub>2</sub> ±2	l <sub>6</sub> ±1,5	α min.	SW <sub>1</sub>	SW <sub>2</sub>	H <sub>2</sub>
15	Rp 1/2	13,2	G 3/4	R 1/2	66	95	7	70° ±10°	27	30	21,5
20	Rp 3/4	14,5	G 1	R 3/4	74	106	8	70° ±10°	32	37	29,5