



V2080 Design

Design TRV Body

With high quality surface for design radiators

APPLICATION

The V2080 Design TRVs have a high-class appearance to match design radiators.

Thermostatic radiator valve bodies (TRV bodies) are fitted on the supply of radiators or heat exchangers. Together with a radiator thermostat, they control the room temperature by regulating the flow of hot water into the radiator or heat exchanger. The temperature of different rooms is controlled individually, and energy is saved.

TRV bodies of this type are suitable for

- Honeywell Home radiator thermostats with M30 x 1.5 connection and from an optical aspect especially the Thera-200 Design series

SPECIAL FEATURES

- Perfect finishing with high quality surface in chrome, white (RAL 9016) or matt black (RAL 9004)
- Available in angled, straight and double angle pattern
- Including a chromed tail piece with integrated O-ring
- Presettable by stroke limitation
- For 2-pipe systems
- Standard M30 x 1.5 thermostat connection
- Connections for all types of pipework available
- Quiet operation



Angle



Straight



Double angle right

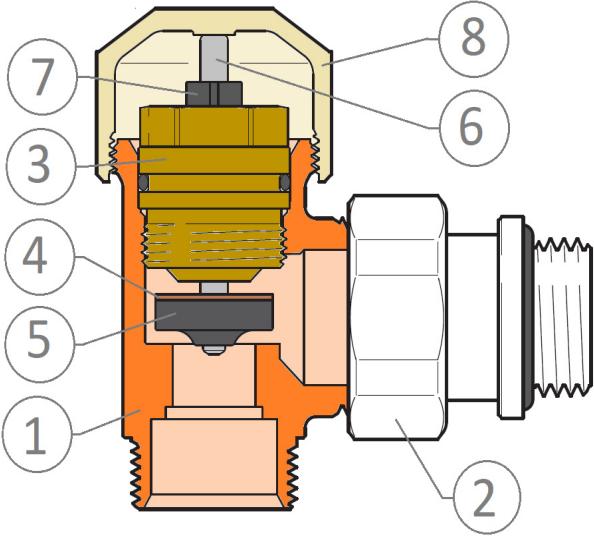


Double angle left

TECHNICAL DATA

Medium:	Water or glycol-water mixture, according to VDI 2035
pH-value:	8 - 9.5
Operating temperature:	2 - 100°C
Operating pressure:	PN10
Max. differential pressure:	100 kPa (1 bar) 20 kPa (0.2 bar) recommended for quiet operation
Max. nominal flow at 10 kPa (EN 215):	300 l/h ±10%
Body-head connection:	M30 x 1.5
Closing dimension:	11.9 mm
Stroke:	2.5 mm

CONSTRUCTION

Overview	Components	Materials
	1 Valve body	Brass, EPDM 70 O-Rings
	2 Radiator connection tailpiece with coupling nut and O-Ring seals	
	3 Insert cartridge with O-Ring seals for the axis and the body	
	4 Plunger support washer	
	5 Plunger seal	EPDM 70
	6 Spindle	Stainless steel
	7 Stroke-limiting dial, with O-Ring seals for the axis and the body	PA6, EPDM 70 O-Rings
	8 Protection cap	PP
Not depicted components:		
Restoring spring with retaining rivet		Stainless steel and copper river

METHOD OF OPERATION

Thermostatic radiator valves enable individual control of room temperature and thus save energy.

The TRV body is controlled by the radiator thermostat. Air from the room passing over the sensor of the radiator thermostat causes the sensor to expand when the temperature rises. The sensor acts onto the valve spindle and this causes the TRV body to close. When the temperature falls the sensor contracts and the spring-loaded valve spindle is opened. The TRV opens in proportion to the temperature of the sensor. Only the amount of water required to maintain the room temperature set on the radiator thermostat can flow into the radiator.

TRANSPORTATION AND STORAGE

Keep parts in their original packaging and unpack them shortly before use.

The following parameters apply during transportation and storage:

Parameter	Value
Environment:	clean, dry and dust free
Min. ambient temperature:	0 °C
Max. ambient temperature:	50 °C
Max. ambient relative humidity:	75 % *

*non condensing

INSTALLATION GUIDELINES

Setup requirements

- To avoid stone deposit and corrosion the composition of the medium should conform with VDI-Guideline 2035
- Additives have to be suitable for EPDM sealings
- System has to be flushed thoroughly before initial operation with all valves fully open
- Any complaints or costs resulting from non-compliance with above rules will not be accepted by Honeywell Home
- Please contact us if you should have any special requirements or needs

Installation Example

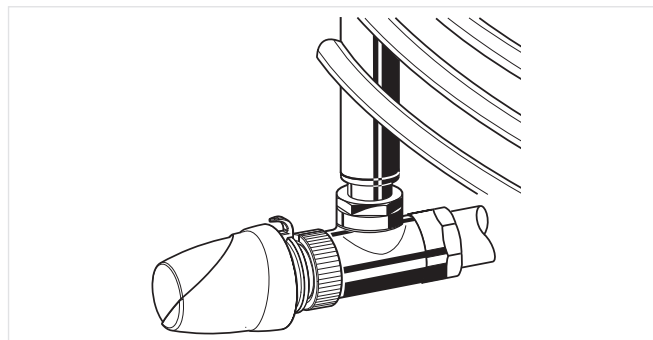


Fig. 1 Angle version

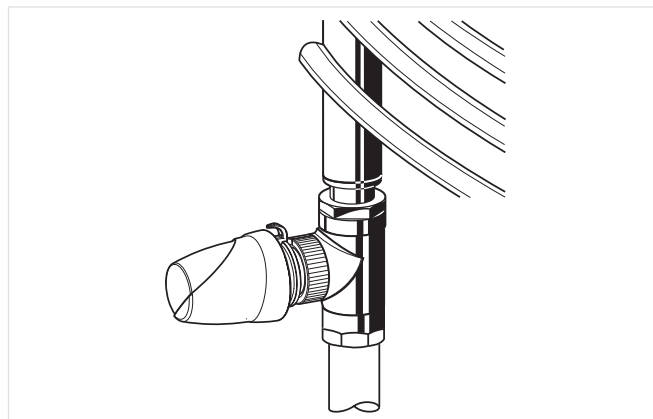


Fig. 2 Straight version

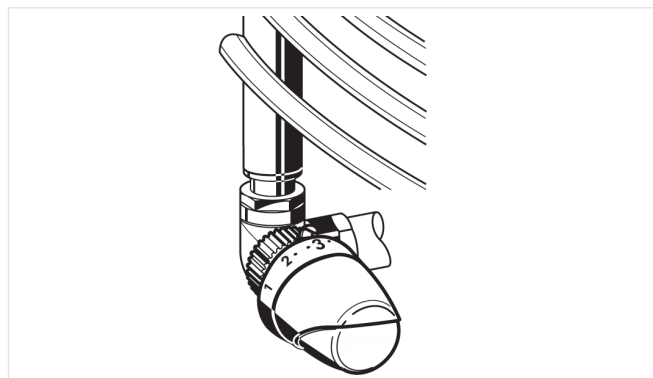
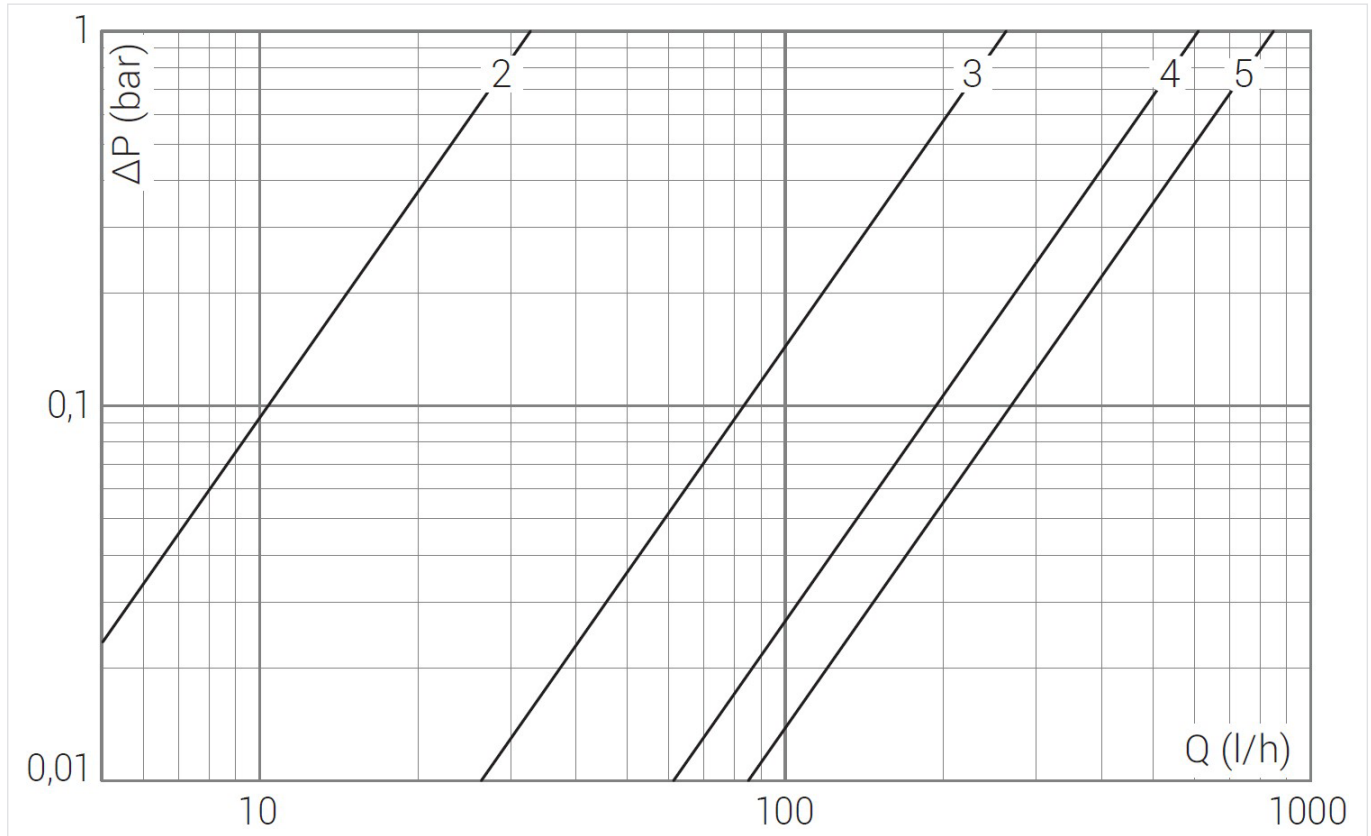


Fig. 3 Double angle version

TECHNICAL CHARACTERISTICS

Pressure drop characteristics



Presetting	1	2	3	4	5	6	7	8
k_v -value, 2K p-band	-	0.063	0.32	0.63	0.95	0.95	0.95	0.95
k_{vs}	-	0.063	0.32	0.65	1.2	1.5	1.7	1.9

Note: Setting 1 is not recommended.

Tab. 1 Temperature settings with Honeywell Home thermostatic heads

P-Band	❄	1	2	3	4	5	6
k_v -value	5	10	13	13	19	22	25

DIMENSIONS

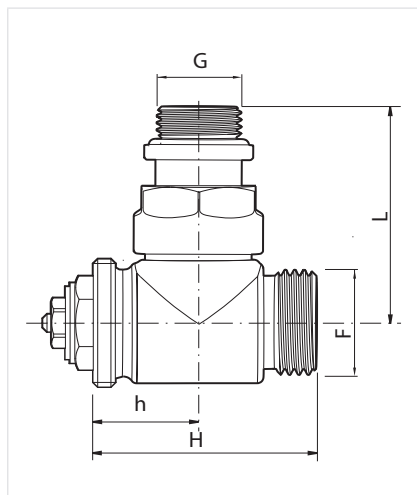


Fig. 4. Angle

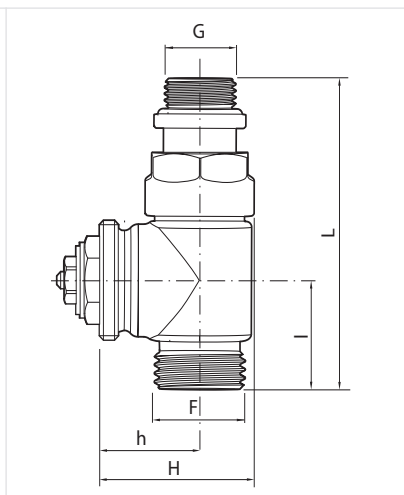


Fig. 5. Straight

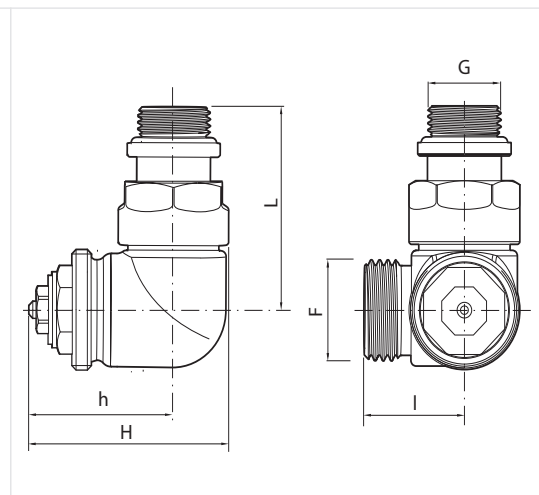


Fig. 6. Double angle



Body type	Colour	DN	I	L	h	H	G	F	OS-No.
E – Angled (Fig. 4)	white	15	-	55	25	51	G 1/2"	24x19	V2081ESL15A
	chrome	15	-	55	25	51	G 1/2"	24x19	V2082ESL15A
	matt black	15	-	55	25	51	G 1/2"	24x19	V2083ESL15A
D – Straight (Fig. 5)	white	15	26	81	28	44	G 1/2"	24x19	V2081DSL15A
	chrome	15	26	55	29	45	G 1/2"	24x19	V2082DSL15A
	matt black	15	26	55	29	45	G 1/2"	24x19	V2083DSL15A
R – Double Angle (Corner) Right (Fig. 6)	white	15	26	55	29	45	G 1/2"	24x19	V2081RLS15A
	chrome	15	26	55	29	45	G 1/2"	24x19	V2082RLS15A
	matt black	15	26	55	29	45	G 1/2"	24x19	V2083RLS15A
L – Double Angle (Corner) Left (Fig. 6)	white	15	26	55	29	45	G 1/2"	24x19	V2081LSL15A
	chrome	15	26	55	29	45	G 1/2"	24x19	V2082LSL15A
	matt black	15	26	55	29	45	G 1/2"	24x19	V2083LSL15A

Note: All dimensions in mm unless stated otherwise.

Note: 24X19 is an M24 thread with 19 turns per inch.

ORDERING INFORMATION

Accessories

	Description	Dimension	Part No.
	FEM24C Pipe Connections		
	Design compression fitting for CUPPER pipe. Consisting of compression nut and compression ring. For valves with external thread M24x19. (1 pack)		
		12 mm	FEM24C12
		14 mm	FEM24C14
		15 mm	FEM24C15
		16 mm	FEM24C16
	FEM24P Pipe Connections		
	Design compression fitting for PEX pipe. Consisting of compression nut, compression ring and reinforcing insert. For valves with external thread M24x19. (1 pack)		
		12 x 1.1 mm	FEM24P12X1.1
		14 x 2 mm	FEM24P14X2
		16 x 1.5 mm	FEM24P16X1.5
		16 x 2 mm	FEM24P16X2
		18 x 2 mm	FEM24P18X2

	FEM24M	Pipe Connections Design compression fitting for MULTILAYER pipe. Consisting of compression nut, compression ring and reinforcing insert. For valves with external thread M24x19. (1 pack)		
			12 x 2 mm	FEM24M14X2.1
			16 x 2 mm	FEM24M16X2
			18 x 2 mm	FEM24M18X2
			20 x 2 mm	FEM24M20X2
	VA2201D	Rosette white (RAL9016) for wall covering		
			Ø 40 x 12 mm	VA2201D012
			Ø 40 x 14 mm	VA2201D014
			Ø 40 x 15 mm	VA2201D015
			Ø 40 x 16 mm	VA2201D016
			Ø 40 x 18 mm	VA2201D018
			Ø 40 x 20 mm	VA2201D020
	VA2201E	Rosette chrome for wall covering		
			Ø 40 x 12 mm	VA2201E012
			Ø 40 x 14 mm	VA2201E014
			Ø 40 x 15 mm	VA2201E015
			Ø 40 x 16 mm	VA2201E016
			Ø 40 x 18 mm	VA2201E018
			Ø 40 x 20 mm	VA2201E020
	VA2200C	Manual design handwheel		
		White (RAL9016)		VA2200C001
		Chrome		VA2200C002
	T4xxx	Thera-200 Design radiator thermostat		
		white/chrome		T4021
		chrome/chrome		T4221
		black/chrome		T4321

For more information
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 ENOH-2108GE25 R0121

Subject to change

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