V2880, Therafix Design

H-Block with Thermostatic Insert
With high quality surface for design radiators

APPLICATION

The V2880 Therafix Design thermostatic H-blocks have a high-class appearance to match design radiators.

The V2880 Therafix Design is used to connect design radiators with 50 mm connection distance to 2-pipe hydronic heating systems.

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.

V2880 Therafix DesignH-Blocks 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

FEATURES

- For radiators with $^1/_2$" internal thread
- Perfect finishing with high quality surface in chrome or white (RAL9016)
- Available in angled left, angled right and straight (right and left) pattern
- Including a chromed tail piece with integrated O-ring
- Functions: control, presetting, shut-off
- For 2-pipe systems
- Standard M30 x 1.5 thermostat connection
- Connections for all types of pipework available

Straight
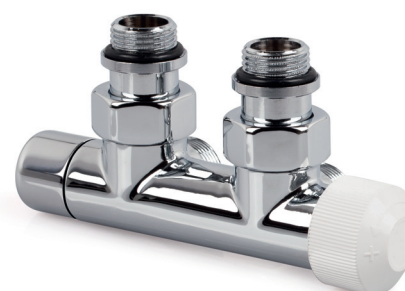
Angled right

SPECIFICATIONS

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, 14.5 psi) 20 kPa (0.2 bar, 2.9 psi) recommended for quiet operation
Body-head connection:	M30 x 1.5
Closing dimension:	11.9 mm
Stroke:	2.5 mm
Connection distance:	50 mm

CONSTRUCTION

Overview	Components	Materials
	1 Valve body	
	2 Radiator connection tailpiece with coupling nut and O-Ring seals	Brass
	3 Insert cartridge with O-Ring seals for the axis and the body	EPDM 70 O-rings
	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
	9 Lockshield cartridge	Brass
	10 Lockshield cap	
	11 Lockshield plunger with O-ring seal	Brass EPDM 70 O-rings
	12 Secondary sealing	Fibre
	Not depicted components:	
	Restoring spring with retaining rivet	Stainless steel and copper river

FUNCTION

The V2880 Therafix Design connects individual radiators to the heating loop. Together with a radiator thermostat, the V2880 Therafix Design controls the amount of heating water flowing through the radiator depending on the ambient room temperature.

When the temperature increases the sensor inside the thermostat expands and acts onto the valve spindle of the thermostatic insert. The flow through the radiator is throttled. When the room temperature decreases the sensor contracts and the spring-loaded thermostatic insert opens again - more heating water can flow through the radiator.

The H-block can be shut off by the protection cap on the supply side and by the lockshield insert on the return side to isolate and e,g, remove 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
- Ensure good access
- 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 Resideo
- Please contact us if you should have any special requirements or needs
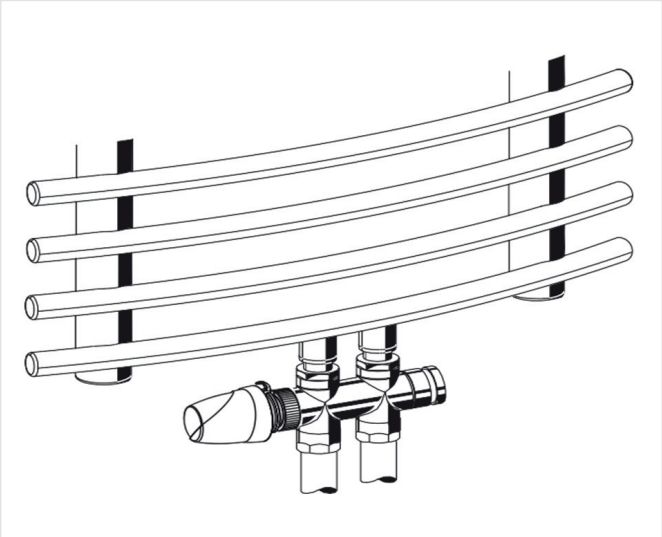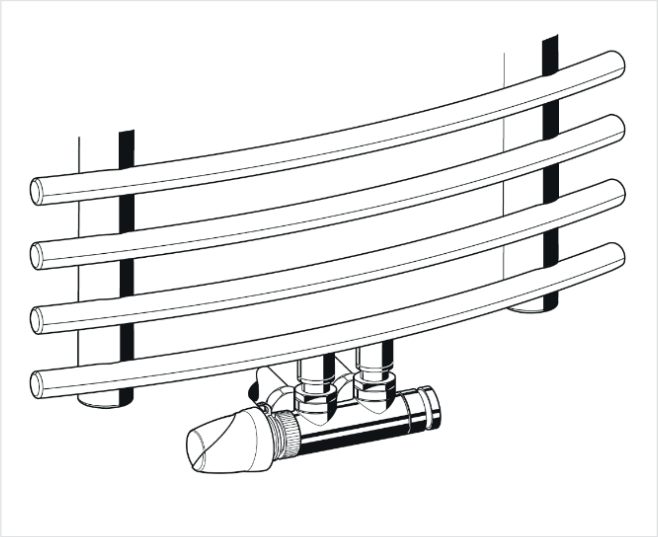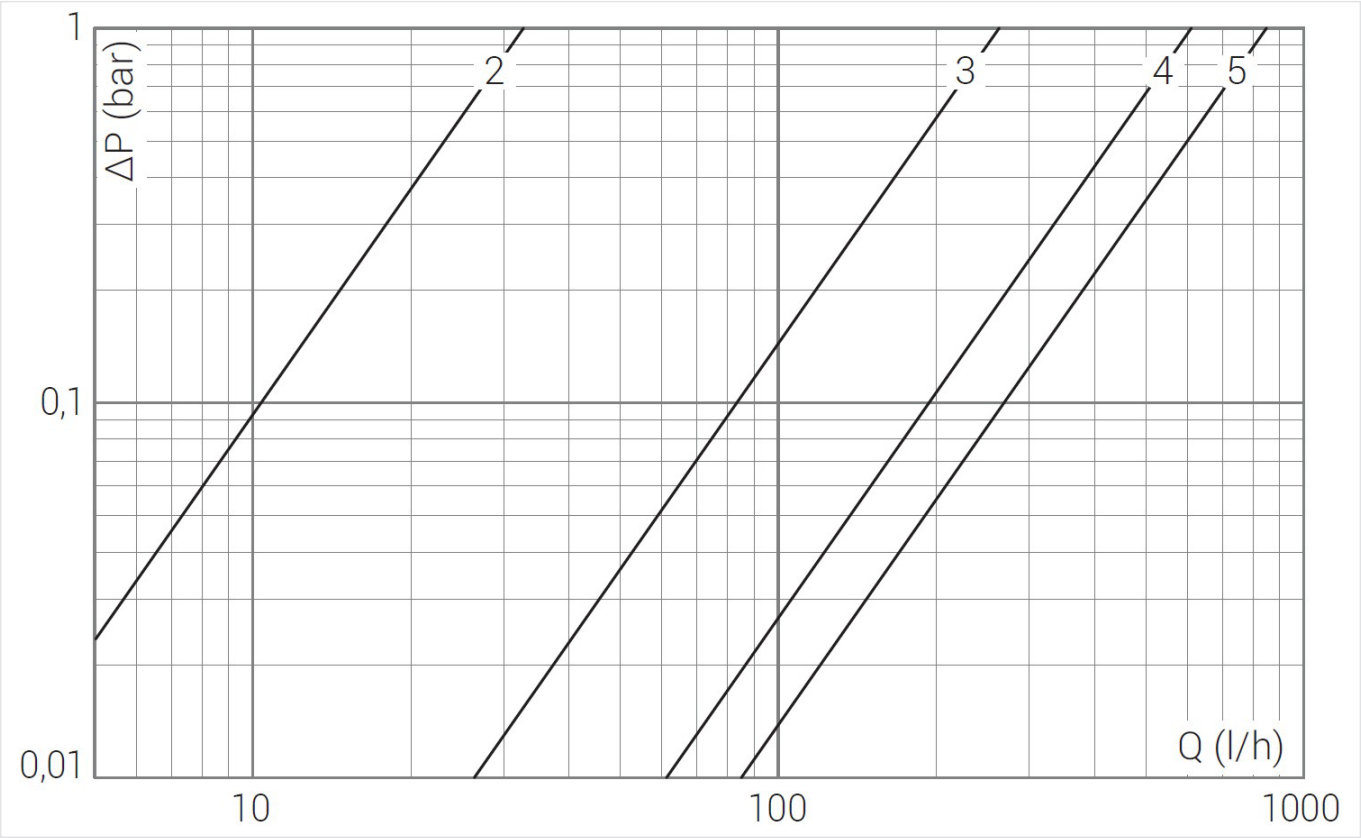
Installation Examples

Fig. 1 Straight version

Fig. 2 Angled 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

Set point	❄	1	2	3	4	5	6
°C	5	10	13	13	19	22	25

DIMENSIONS
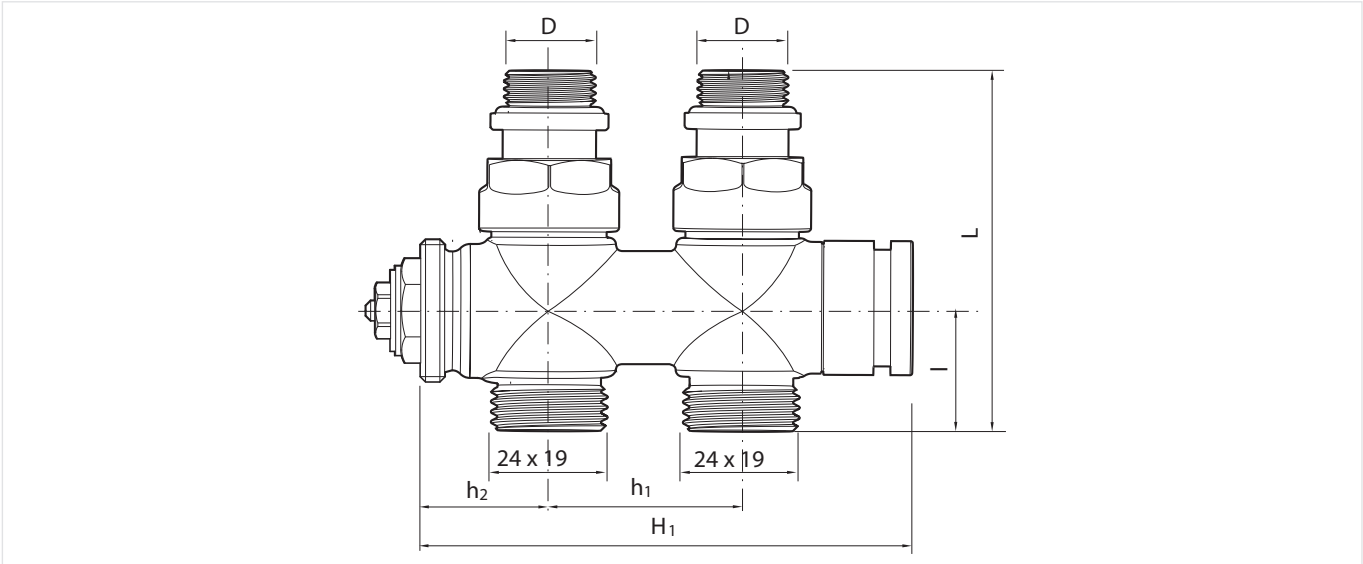
Fig. 3 Straight
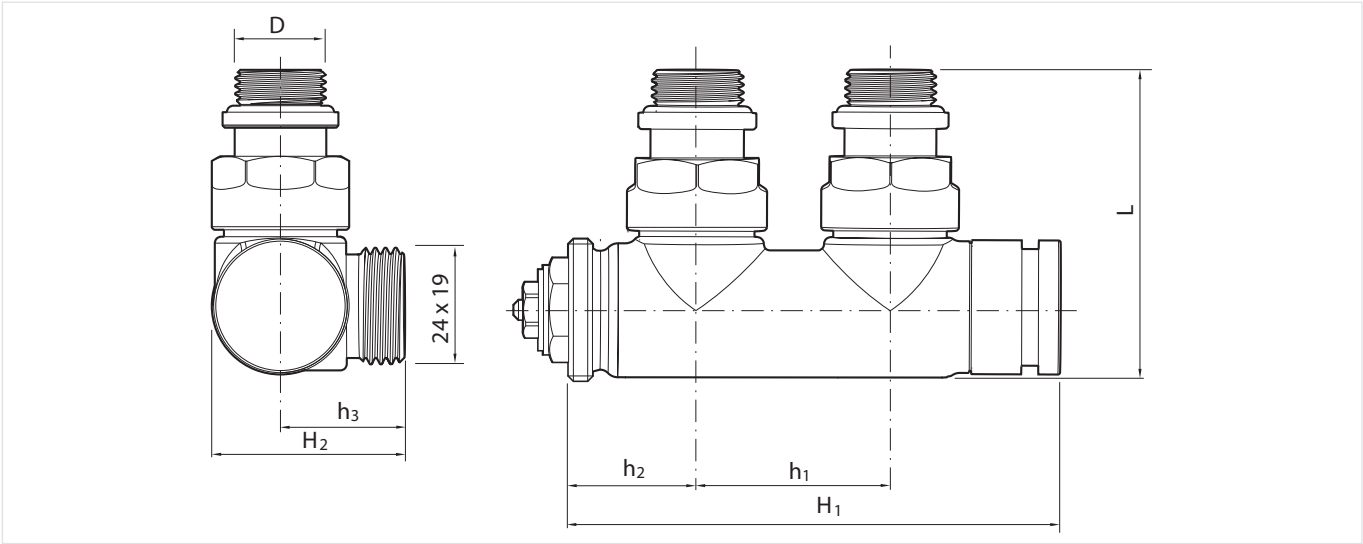
Fig. 4 Angled

ORDERING INFORMATION

Body type	Colour	DN	I	L	h_1	h_2	h_3	H_1	H_2	D	OS.-No.
R - Angled **Right** (Fig. 3)	white	15		70	50	28	26	117	42	Rp $1/2$"	V2881RSL15A
	chrome	15		70	50	28	26	117	42	Rp $1/2$"	V2882RSL15A
	matt black	15		70	50	28	26	117	42	Rp $1/2$"	V2883RSL15A
L - Angled **Left** (Fig. 3)	white	15		70	50	28	26	117	42	Rp $1/2$"	V2881LSL15A
	chrome	15		70	50	28	26	117	42	Rp $1/2$"	V2882LSL15A
	matt black	15		70	50	28	26	117	42	Rp $1/2$"	V2883LSL15A
D - **Straight** (Fig. 4)	white	15	26	81	50	28		117		Rp $1/2$"	V2881DSL15A
	chrome	15	26	81	50	28		117		Rp $1/2$"	V2882DSL15A
	matt black	15	26	81	50	28		117		Rp $1/2$"	V2883DSL15A

Note: All dimensions in mm unless stated otherwise.

ACCESSORIES

	Description		Dimension	Part No.
	FEM24C	**Pipe Connections** **Design compression fitting for COPPER 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) Chrome		VA2200C001
			VA2200C002
T4xxx	Thera-200 Design radiator thermostat		
	white/chrome		T4021
	chrome/chrome		T4221
	black/chrome		T4321

For more information

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