



V2880, Therafix Design

Thera Design Edition - H-Block with TRV Insert

With high quality surface for design radiators

APPLICATION

The Thera Design Edition is particularly styled for use with design radiators. With their high class appearance they perfectly fit to all kinds of ambients.

The Therafix Design is used to connect design radiators with 50 mm connection distance to 2-pipe hydronic heating systems. Therafix Design is equipped with a pre-settable TRV insert in the supply, a pre-settable lockshield insert in the return and an M30 x 1.5 thermostat thread.

H-Blocks of this type have quiet operation and are fitted to the 50 mm connection on 2-pipe systems with medium flow rates. The valve insert can be replaced while the system is running and without draining using the service tool (see 'Accessories').

H-Blocks of this type are suitable for

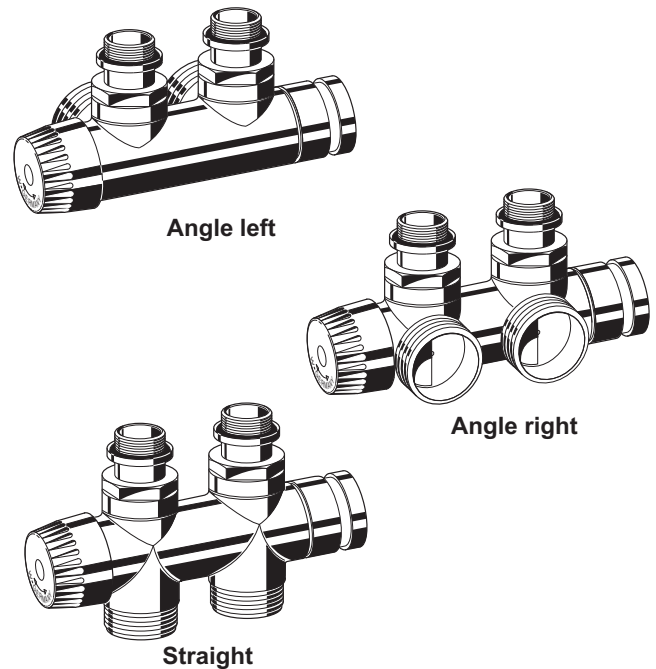
- Honeywell Home radiator thermostats with M30 x 1.5 connection and from an optical aspect especially the Thera-4 Design series

FEATURES

- For radiators with 1/2" internal thread
- Perfect finishing with high quality surface in chrome or white (RAL9016)
- Various versions in angle and straight available to fit a visual appealing installation
- 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

SPECIFICATIONS

Medium:	Water or glycol-water mixture, according to VDI 2035
pH-value:	8 - 9.5
Operating temperature:	2 - 130°C (36 - 266°F)
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:	11.5 mm
Stroke:	2.5 mm
Connection distance:	50 mm



DESIGN

The Therafix design H-Block consist of:

- Valve housing PN10, DN15 with
 - external thread connection on inlet
 - external thread connection with union-nut and radiator tailpiece on outlet
- Presettable valve insert
- Protection cap

MATERIALS

- Valve housing made of brass with chrome or white (RAL 9016) surface
- Valve insert made of brass with EPDM O-rings and soft seals and stainless steel spindle
- Protection cap made of plastic
- Union-nut and tailpiece made of chrome plated brass with EPDM O-ring

FUNCTION

The Therafix Design connects individual radiators to the heating loop. Together with a radiator thermostat, e.g. Thera-4 Design (not supplied with the valve) the 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 ex-pands and acts onto the valve spindle of the thermostatic insert of the Therafix Design. The valve is closed and 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 radiator is presettable with shut-off over the lockshield insert integrated into the return of the valve. Presetting allows throttling the flow through a radiator to realize a hydronic balance. The shut-off function separates the radiator from the heating loop, e.g. for removal.

PLEASE NOTE:

- 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

PRESETTING

Presetting is done by first closing and then opening the black presetting ring on the topside of the valve to the number derived from the flow diagram. Presetting 10 is 1 complete turn of the pre-setting screw.

APPLICATION EXAMPLES

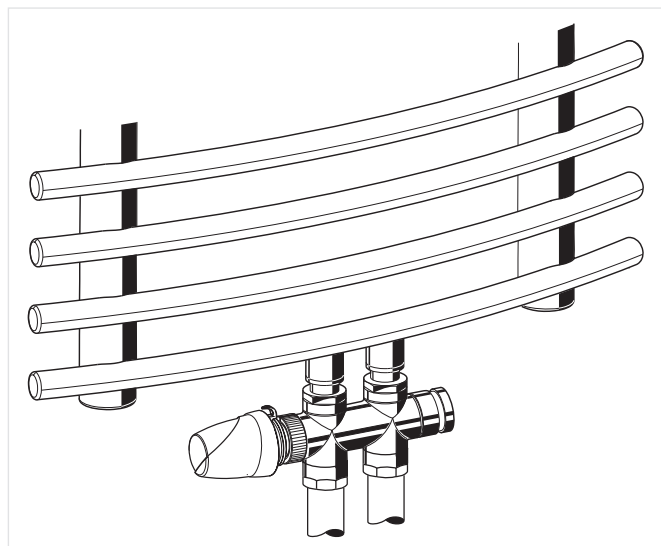


Fig. 1 Straight version

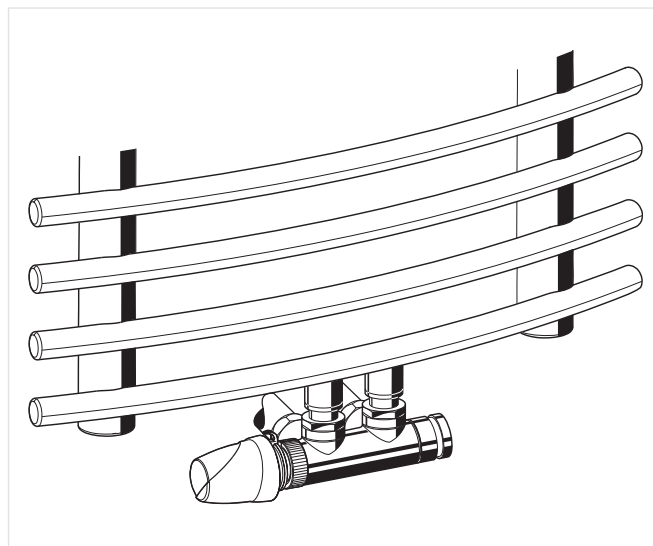


Fig. 2 Angle version

DIMENSIONS

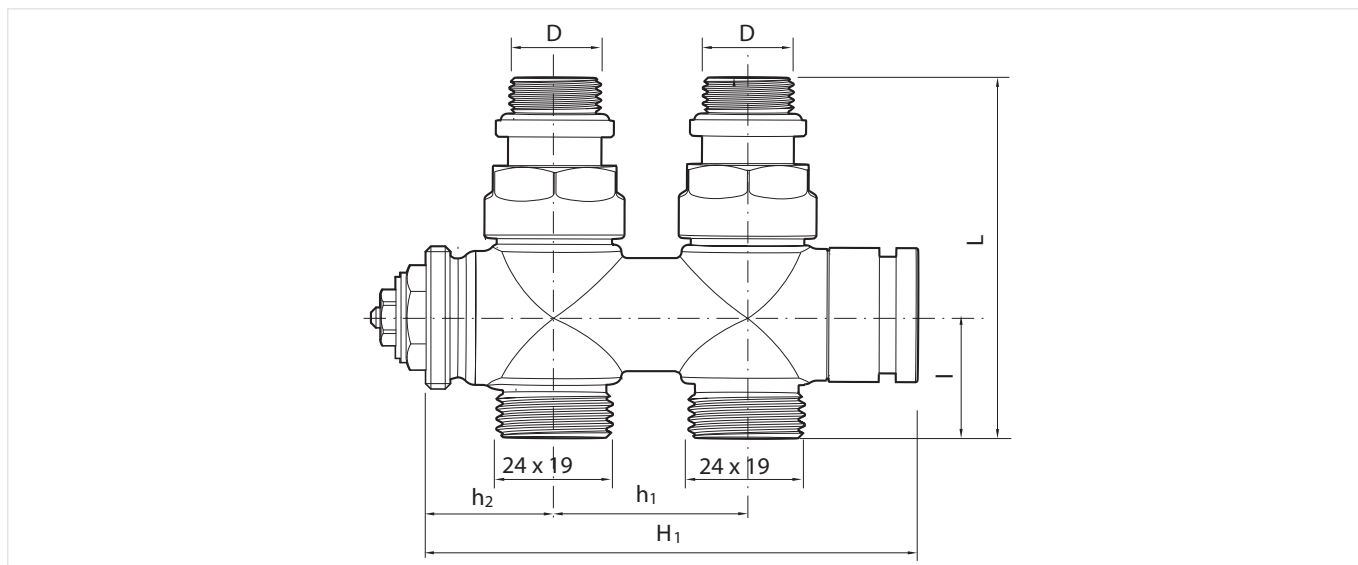


Fig. 3 Straight

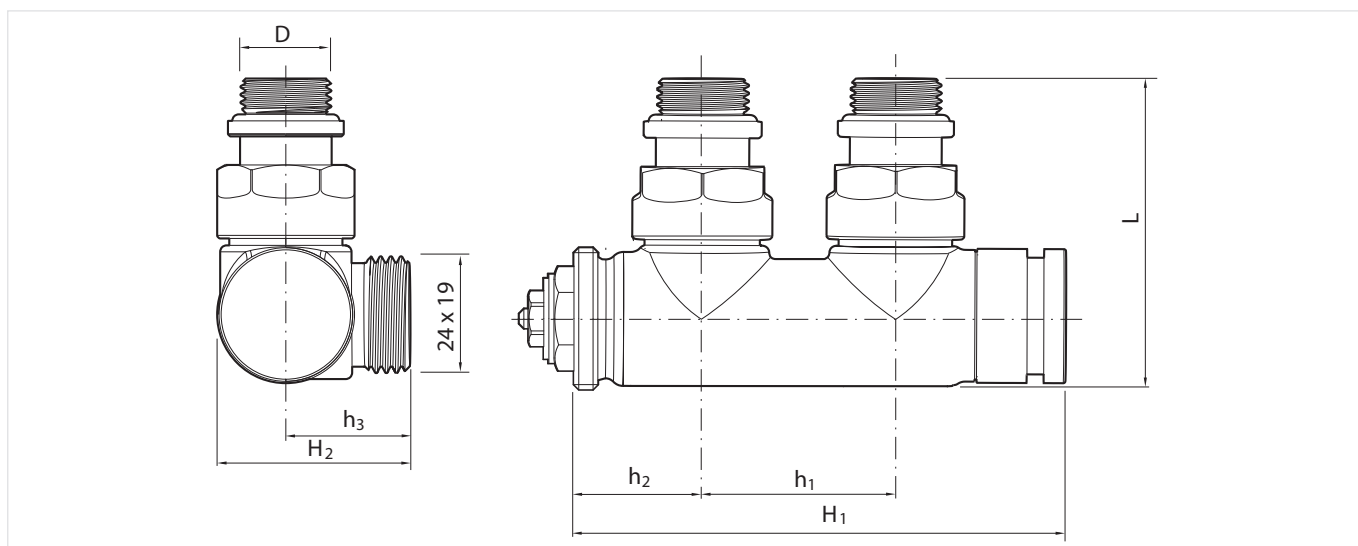


Fig. 4 Angle







ORDERING INFORMATION

Tab. 1 Dimensions and OS-Nos (OS=Ordering System)

Body type	DN	$k_{vs}(c_{vs})$ -value	I	L	h_1	h_2	h_3	H_1	H_2	D	OS.-No.
White, angle right	15	1.20 (1.40)		70	50	28	26	117	42	Rp 1/2"	V2881RSL15
Chrome, angle right	15	1.20 (1.40)		70	50	28	26	117	42	Rp 1/2"	V2882RSL15
White, angle left	15	1.20 (1.40)		70	50	28	26	117	42	Rp 1/2"	V2881LSL15
Chrome, angle left	15	1.20 (1.40)		70	50	28	26	117	42	Rp 1/2"	V2882LSL15
White, straight	15	1.20 (1.40)	26	81	50	28		117		Rp 1/2"	V2881DSL15
Chrome, straight	15	1.20 (1.40)	26	81	50	28		117		Rp 1/2"	V2882DSL15

Note: All dimensions in mm unless stated otherwise.

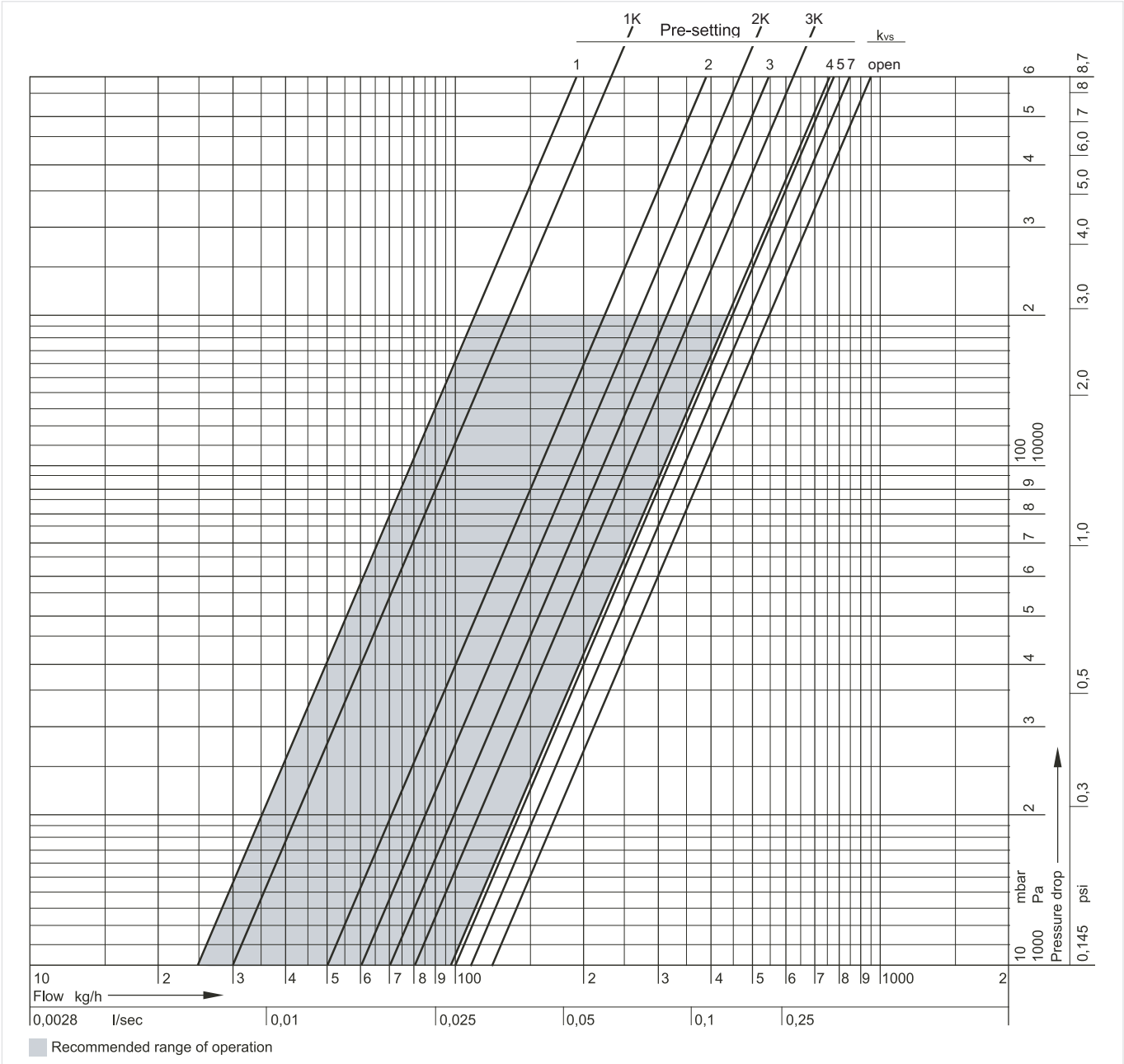
ACCESSORIES

	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) Note: Max. operating temperature 90 °C, max. operating pressure 10 bar.		
		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) Note: Max. operating temperature 90 °C, max. operating pressure 10 bar.		
		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) Note: Max. operating temperature 90 °C, max. operating pressure 10 bar.		
		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
	T20xxx Thera-4 Design radiator thermostat		
		white/white	T2001
		white/white with zero-position	T2001W0
		white/chrome	T2021
		white/chrome with zero-position	T2021W0

SERVICE PARTS

	Valve insert	
		VS1200SLGB11
	Service tool to replace valve insert	
	for all sizes	VA8200A001

FLOW DIAGRAM TRV INSERT

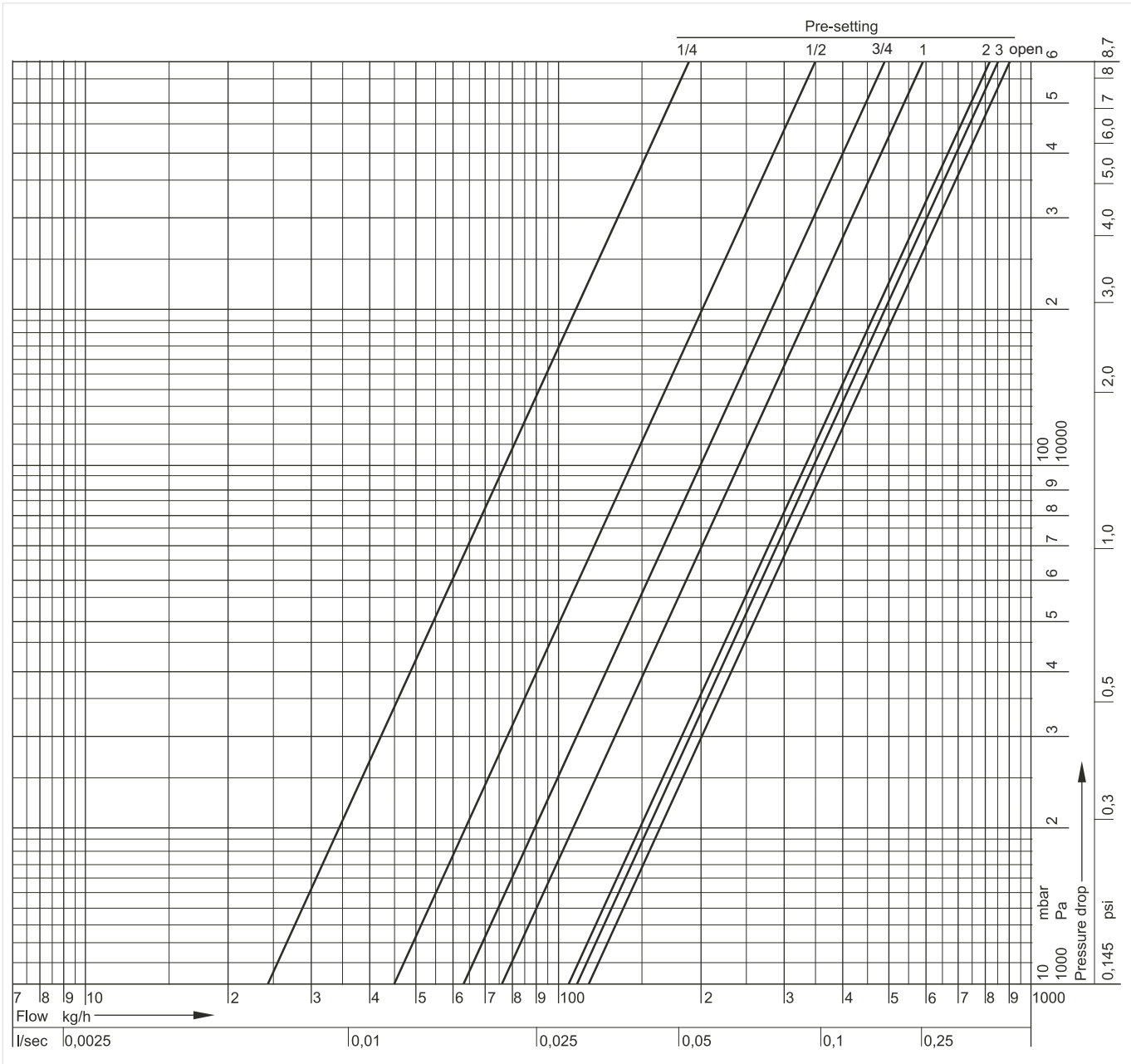


Presetting	1	2	3	4	5	7	open = k_{vs}
$k_{vs}(cv)$ -values DN15	0.25 (0.29)	0.50 (0.58)	0.70 (0.82)	0.90 (1.05)	1.00 (1.17)	1.10 (1.28)	1.20 (1.40)

Note: Presettings above 4 are unsuitable for operation with radiator thermostats and should only be used with actuators (open/close operation).

P-Band	1K	2K	3K
k_v -value	0.3	0.6	0.8
cv -value	0.35	0.70	0.94

FLOW DIAGRAM LOCKSHIELD INSERT



Turns of presetting screw	1/4	1/2	3/4	1	2	3	k _{VS} = open
k _V -value	0.24	0.45	0.63	0.76	1.12	1.16	1.18
cv-value	0.28	0.53	0.73	0.89	1.31	1.36	1.37

Note: See chapter presetting for presetting instructions.

For more information
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