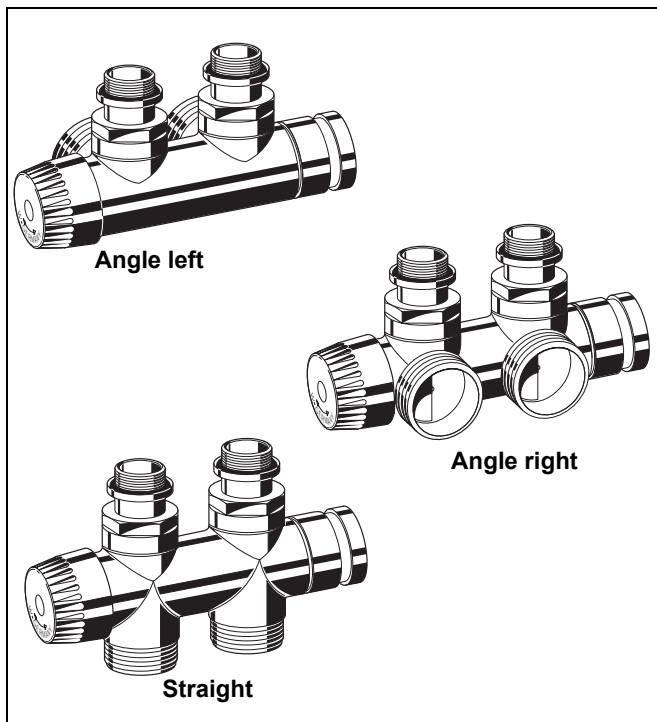


## V2880, Therafix Design Thera Design Edition - H-Block with TRV Insert WITH HIGH QUALITY SURFACE FOR DESIGN RADIATORS

### PRODUCT DATA



### 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 tail-piece on outlet
- Pre-settable 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

### 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 50mm 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 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, pre-setting, shut-off
- For 2-pipe systems
- Standard M30 x 1.5 thermostat connection
- Connections for all types of pipework available

### Specifications

<b>Medium</b>	Water or glycol-water mixture, according to VDI 2035
<b>pH-value</b>	8...9,5
<b>Operating temperature</b>	2...130°C (36...266°F)
<b>Operating pressure</b>	PN10
<b>Differential pressure</b>	max. 1 bar (14.5 psi) – max. 0.2 bar (2.9 psi) recommended for quiet operation
<b>Thermostat connection</b>	M30 x 1.5
<b>Closing dimension</b>	11.5 mm
<b>Stroke</b>	2.5 mm
<b>Connection distance</b>	50 mm

## 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 expands 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 pre-settable with shut-off over the lockshield insert integrated into the return of the valve. Pre-setting 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
- Please contact us if you should have any special requirements or needs

## Pre-setting

The TRV is open by factory setting. Pre-setting is done by first closing the valve insert (head black with pre-setting-figure 0-9) on top of the valve body 2 turns right and then opening to the pre-setting-figure derived from the flow diagram.

NOTE: One complete turn refers to pre-setting-figure 10, 2 complete turns to pre-setting-figure 20 and so on.

Another possibility to preset the TRV is to open the lockshield insert in the return to the pre-setting-figure derived from the flow diagram of lockshield insert.

NOTE: Factory setting of lockshield insert is closed.

## Application Examples

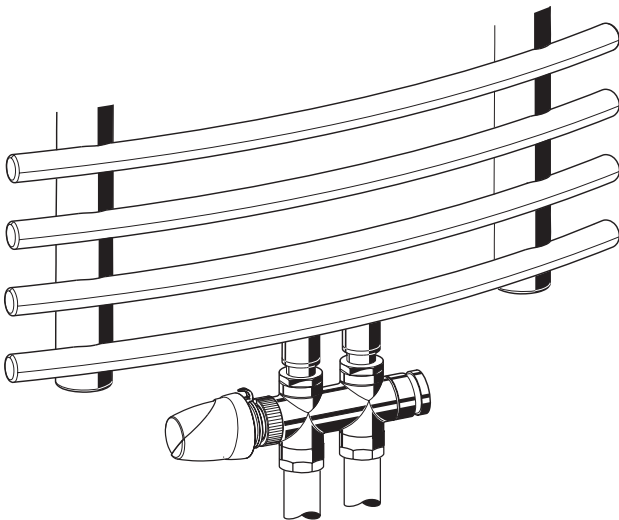


Fig. 1. Straight version

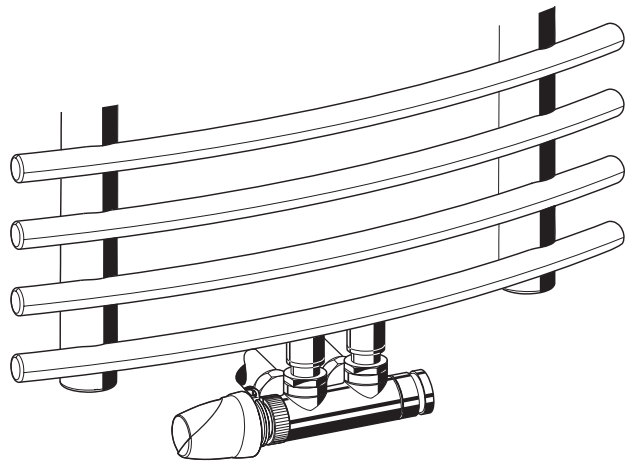


Fig. 2. Angle version

## Dimensions

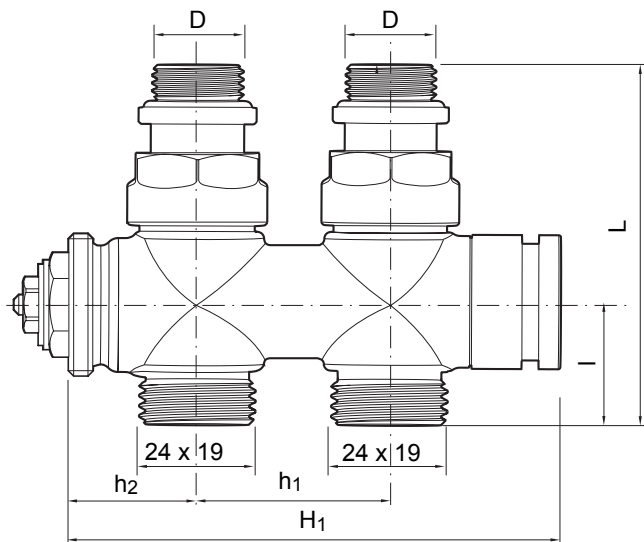


Fig. 3. Straight

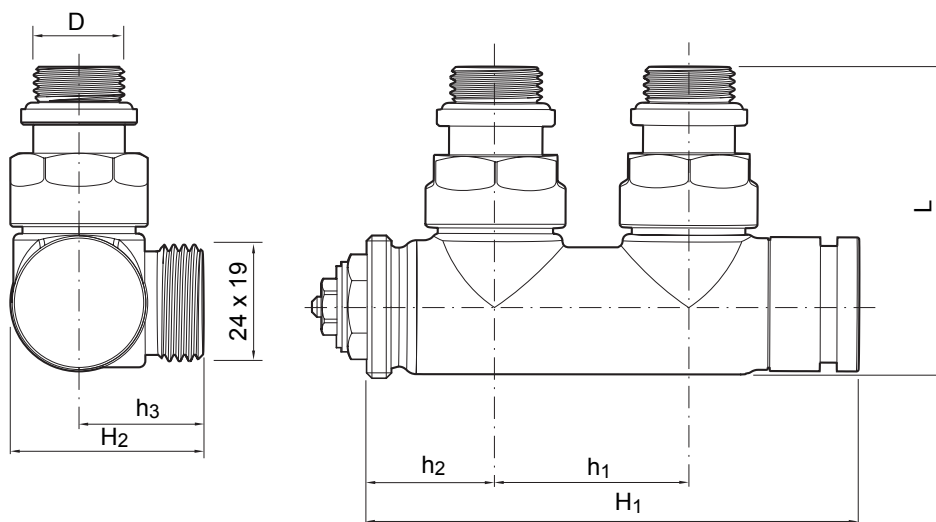


Fig. 4. Angle

## Ordering Information

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

Body type	DN	kvs(cv)-value	l	L	h <sub>1</sub>	h <sub>2</sub>	h <sub>3</sub>	H <sub>1</sub>	H <sub>2</sub>	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

### Pipe Connections

#### Connection for copper pipe (1 pcs.)



24 x 19 x 12mm	VA720C1200
24 x 19 x 14mm	VA720C1400
24 x 19 x 15mm	VA720C1500
24 x 19 x 16mm	VA720C1600

#### Connection for PE-X pipe (1 pcs.)



24 x 19 x 12 x 1,1mm	VA721C1211
24 x 19 x 14 x 2mm	VA721C1420
24 x 19 x 16 x 1,5mm	VA721C1615
24 x 19 x 16 x 2mm	VA721C1620
24 x 19 x 18 x 2mm	VA721C1820

#### Connection for multilayer pipe (1 pcs.)



24 x 19 x 14 x 2mm	VA722C1420
24 x 19 x 16 x 2mm	VA722C1620
24 x 19 x 18 x 2mm	VA722C1820
24 x 19 x 20 x 2mm	VA722C2020

## Valve Accessories

### Rosette white (RAL9016) for wall covering



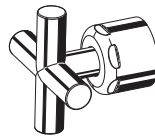
Ø40 x 12mm	VA2201D012
Ø40 x 14mm	VA2201D014
Ø40 x 15mm	VA2201D015
Ø40 x 16mm	VA2201D016
Ø40 x 18mm	VA2201D018
Ø40 x 20mm	VA2201D020

### Rosette chrome for wall covering



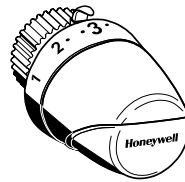
Ø40 x 12mm	VA2201E012
Ø40 x 14mm	VA2201E014
Ø40 x 15mm	VA2201E015
Ø40 x 16mm	VA2201E016
Ø40 x 18mm	VA2201E018
Ø40 x 20mm	VA2201E020

### Manual design handwheel



White (RAL9016)	VA2200C001
Chrome	VA2200C002

### Thera-4 Design radiator thermostat



white/white	T2001
white/white with zero-position	T2001W0
white/chrome	T2021
white/chrome with zero-position	T2021W0
chrome/chrome	T2221
chrome/chrome with zero-position	T2221W0

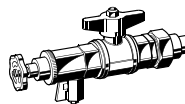
## Service Parts

### Valve insert



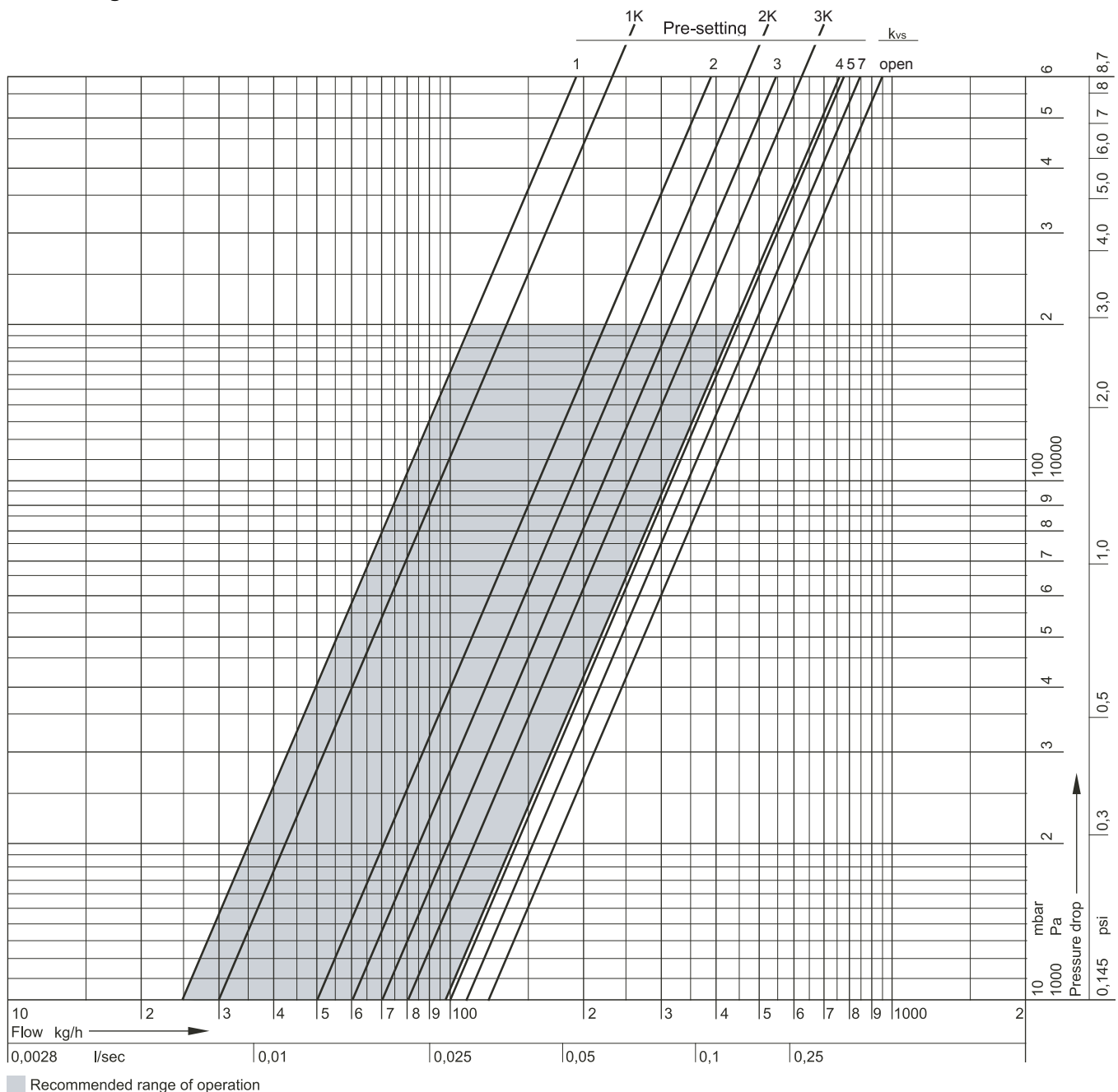
VS1200SLGB01

### Service tool to replace valve insert



for all sizes VA8200A001

### Flow Diagram TRV Insert

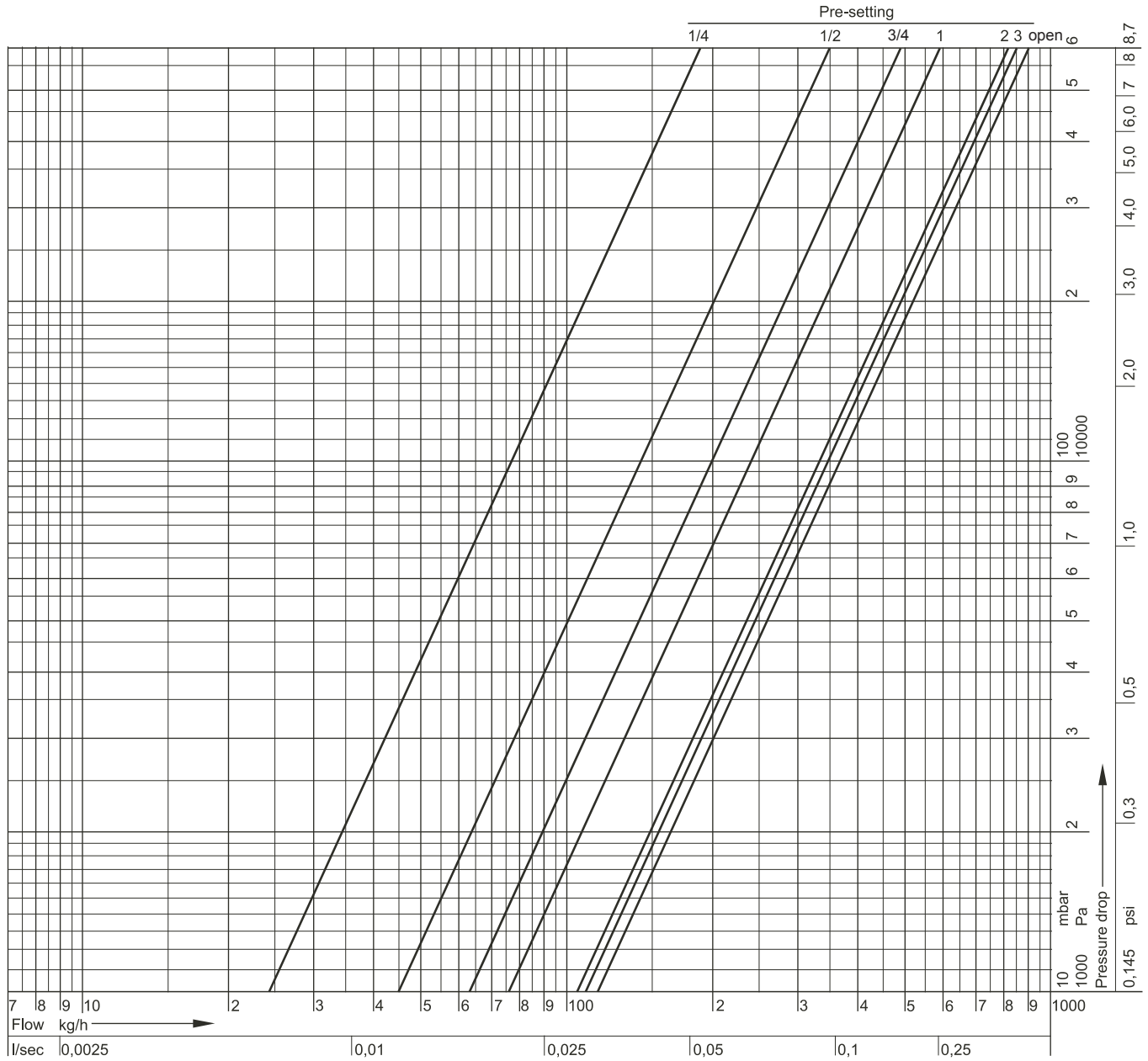


Pre-setting	1	2	3	4	5	7	open = $k_{vs}$
$k_{vs}(cv)$ -values DN15	0.25 (0.29)	0.50 (0.58)	0.70 (0.82)	0.90 (1.05)	1.00 (1.17)	1.10 (1.28)	1.20 (1.40)

NOTE: Pre-settings 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 pre-setting screw	1/4	1/2	3/4	1	2	3	k <sub>vs</sub> = open
k <sub>v</sub> -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 pre-setting instructions.

**Environmental and Combustion Control**  
 Honeywell GmbH  
 Hardhofweg  
 74821 Mosbach, Germany  
 Phone: +49 (6261) 810  
 Fax: +49 (6261) 81393  
 www.honeywell.com

EN0H-2110GE23 R0110  
 January 2010  
 © 2010 Honeywell International Inc.  
 Subject to change without notice  
 Manufactured for and on behalf of the Environmental and Combustion  
 Controls Division of Honeywell Technologies Sàrl, Rolle, Z.A. La  
 Pièce 16, Switzerland or its authorized representative.

