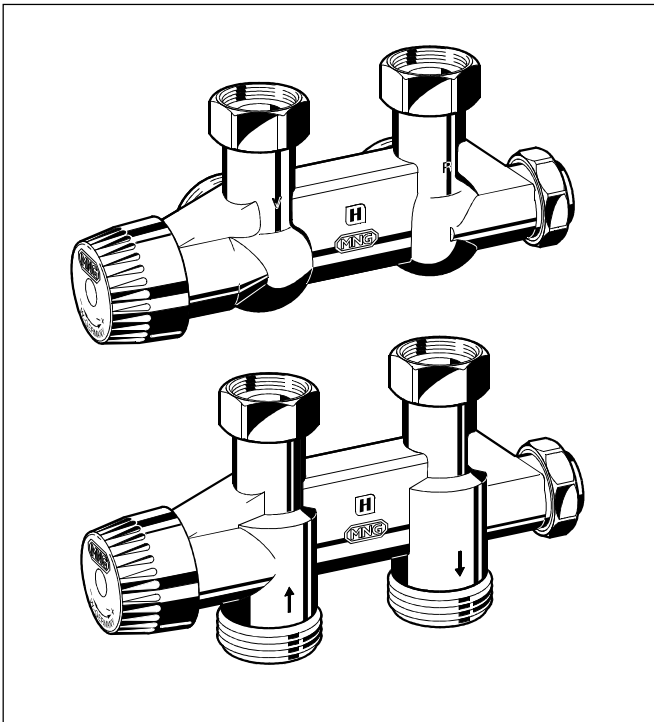# V2464, V2474
Therafix

H-BLOCK WITH TRV INSERT

PRODUCT DATA

Application

The Therafix is used to connect compact radiators or uiversal radiators (6-point radiators) with 50 mm connection distance to one- or two-pipe hydronic heating systems.

Radiators connected with a Therafix can be drained or filled, even when the system is operating. Therafix is equipped with a TRV insert in the supply, a pre-settable lockshield insert in the return and an M30 x 1.5 thermostat thread.

The Therafix is compatible with all Honeywell radiator thermostats with M30 x 1.5 connection.

Features

- **One solution for radiator connection: valve with integrated thermostatic insert and pre-settable lockshield insert**
- **Functions: control, pre-setting, drain, shut-off**
- **When radiator is drained the supply riser tube inside the radiator is automatically also drained**
- **Robust valve housing made of corrosion resistant brass**
- **Available for wall or floor connection**
- **Valve is supplied with suitable connections for most compact or universal radiators**

Design

The Therafix consists of:

- Valve housing angle pattern for wall connection or straight pattern for floor connection
- TRV valve insert in the supply
- Verafix-E insert in the return
- Radiator connections

Materials

- Valve housing made of brass, matt nickel-plated
- Valve insert made of brass with O-rings and soft sealings made of EPDM
- Radiator connections made of brass
- Protection cap made of brass, nickel-plated

Specifications

Medium	Heating water
pH-value	8...9,5
Operating temperature	max. 130°C (266°F)
Operating pressure	max. 16 bar (232 p.s.i.)
k_{vs}-values	0,6 (two pipe) 1,7 (one pipe)
Thermostat thread	M30 x 1.5
Closing dimension	11,5 mm

Function

The Therafix connects individual radiators to the heating loop. Together with a radiator thermostat, e.g. Thera-3 (not supplied with the valve) the Therafix 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. The valve is closed and the flow through the radiator is throttled. When the 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-set, drained or 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 and is done with a 4 mm Allan key.

The draining function allows draining of the radiator over the Therafix. A special draining adapter is required, please refer to 'Accessories' further below. The riser tube inside the radiator is also drained during the draining process.

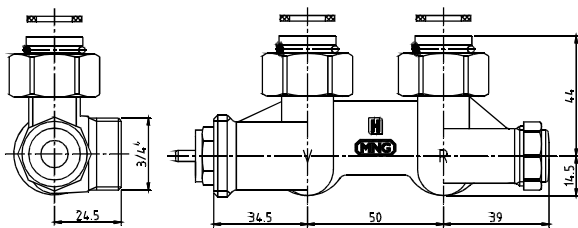The shut-off function separates the radiator from the heating loop, e.g. for removal.

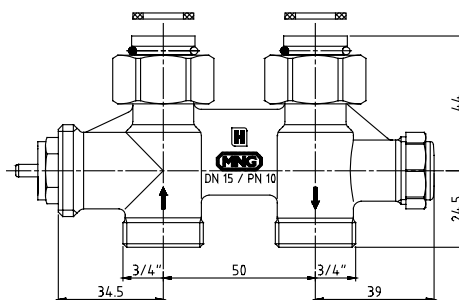# Dimensions

Fig. 1. Therafix angle (wall)

Fig. 2. Therafix straight (floor)

NOTE: All dimensions in mm unless otherwise stated.

Ordering Information

| Item	Pipe connection	Radiator connection	DN	k_{vs}-value	OS-No.
For two-pipe systems					
Angle (Wall connection)	3/4" external	3/4" external	15	0,6	V2474XE0020
Angle (Wall connection)	3/4" external	1/2" internal	15	0,6	V2474YE0015
Straight (floor connection)	3/4" external	3/4" external	15	0,6	V2474XD0020
Straight (floor connection)	3/4" external	1/2" internal	15	0,6	V2474YD0015
For one-pipe systems					
Angle (Wall connection)	3/4" external	3/4" external	15	1,7	V2464XE0020
Angle (Wall connection)	3/4" external	1/2" internal	15	1,7	V2464YE0015
Straight (floor connection)	3/4" external	3/4" external	15	1,7	V2464XD0020
Straight (floor connection)	3/4" external	1/2" internal	15	1,7	V2464YD0015

Installation Example
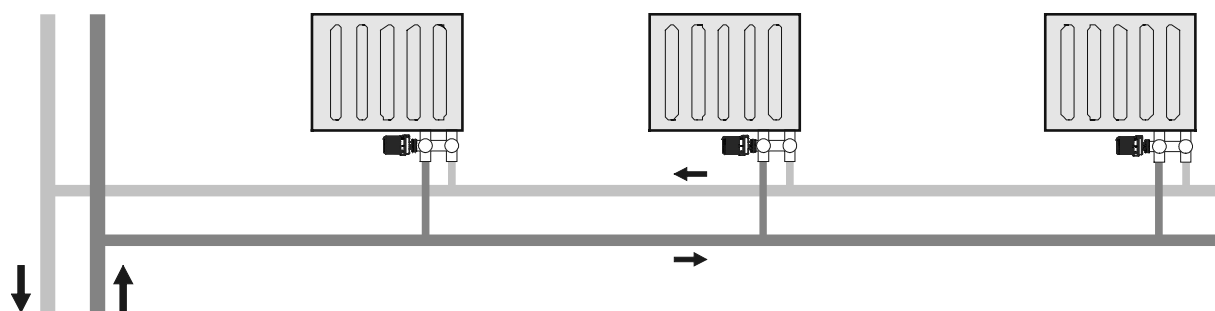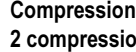
Fig. 3. Two-pipe system with Therafix

Accessories

Compression fitting for copper and steel pipe, consisting of 2 union nuts, 2 compression rings and 2 support inserts

3/4" x 10 mm	VA7200A010
3/4" x 12 mm	VA7200A012
3/4" x 14 mm	VA7200A014
3/4" x 15 mm	VA7200A015
3/4" x 16 mm	VA7200A016
3/4" x 18 mm	VA7200A018

Compression fitting for plastic pipe, consisting of 2 union nuts, 2 compression rings and 2 support inserts

3/4" x 12 x 2 mm	VA7210A012
3/4" x 14 x 2 mm	VA7210A014
3/4" x 16 x 2 mm	VA7210A016
3/4" x 17 x 2 mm	VA7210A017
3/4" x 18 x 2 mm	VA7210A018

Compression fitting for Unipipe and alpex-therm composite pipe, consisting of 2 union nuts and 2 pipe supports

3/4" x 14 x 2 mm	VA7220A014
3/4" x 16 x 2 mm	VA7220A016
3/4" x 18 x 2 mm	VA7220A018

NOTE: Installation according to manufacturer's guidelines.

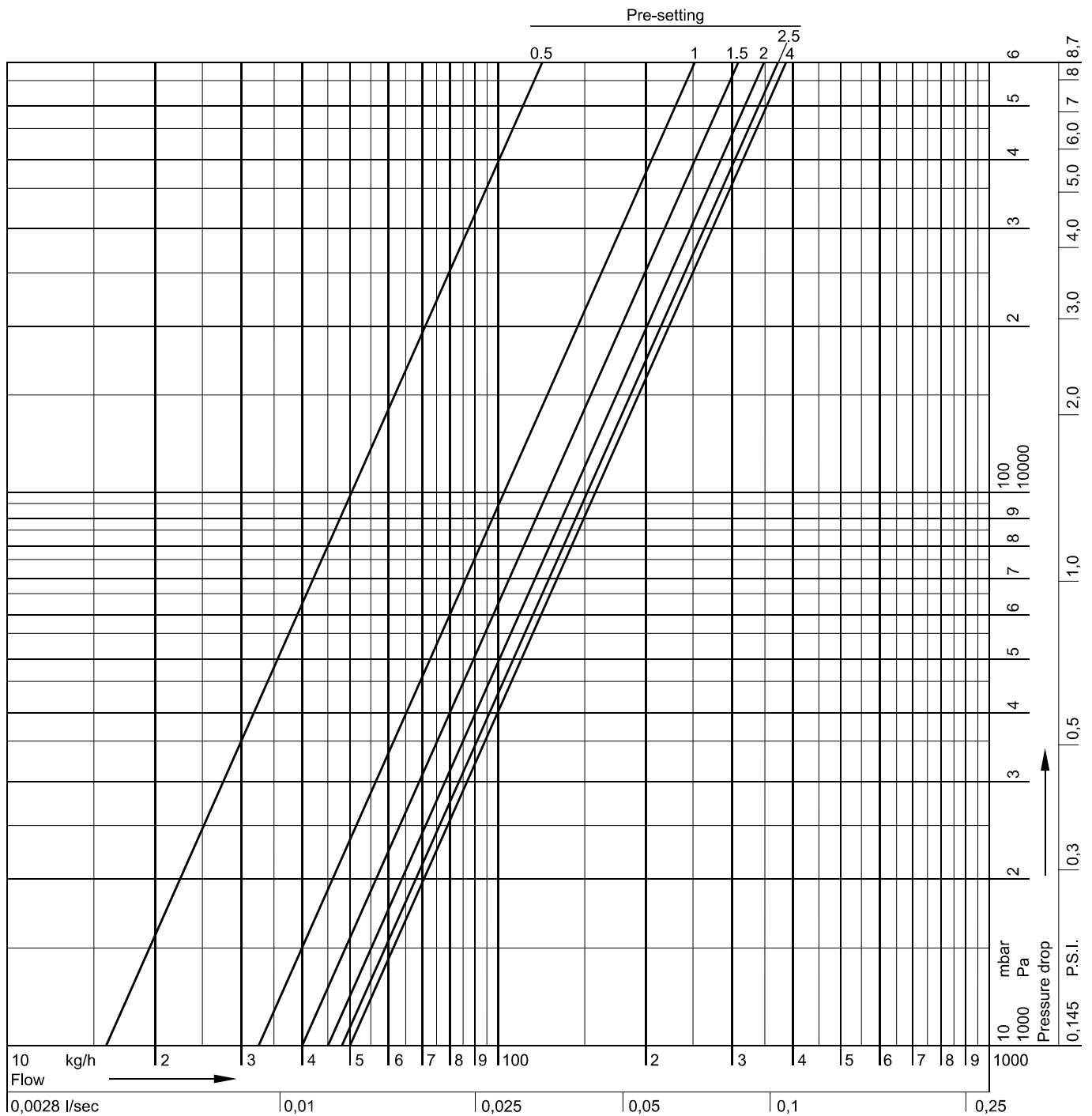**Draining adapter**
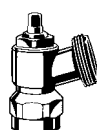
VA3300A001

Special Verafix key

VA8300A001

Replacement TRV insert

for two-pipe version	VS1200BB01
for one-pipe version	VS1200UB01

Flow Data Two-pipe Version (V2474)

Pre-setting values for Therafix in two-pipe systems, P-Band = 3K

Pre-setting = Turns of setting screw	0.5	1	1.5	2	2.5	3	3.5	4
k_v-value	0,16	0,32	0,40	0,45	0,47	0,48	0,49	0,50

Flow values for Therafix in two-pipe systems, pre-setting = 4

P-Band	1K	2K	3K	open	
k_v-value	0,22	0,45	0,50	$k_{vs} = 0,60$	

Flow Data One-pipe Version (V2464)
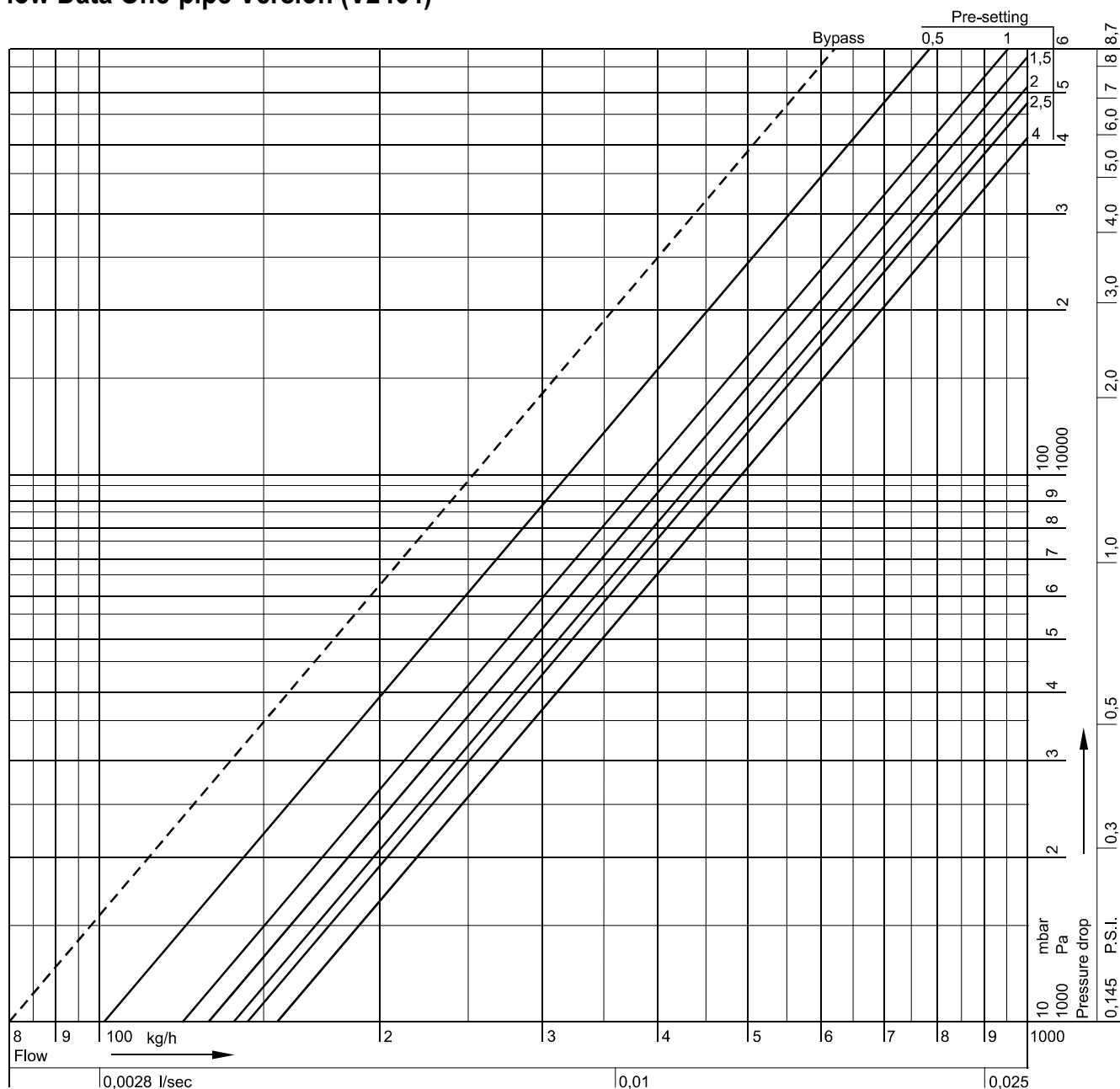
Pre-setting values for Therafix in one-pipe systems, P-Band = 3K

Pre-setting = Turns of setting screw	0.5	1	1.5	2	2.5	3	3.5	4
k_v-value	1,04	1,20	1,33	1,42	1,46	1,51	1,53	1,55
Radiator share	23%	33%	40%	44%	45%	47%	48%	48%

Flow values for Therafix in one-pipe systems, pre-setting = 4

P-Band	0K = bypass	1K	2K	3K	open
k_v-value	0,8	1,18	1,42	1,55	1,7
Radiator share	0%	31%	44%	48%	53%

NOTE: These values are for a common compact or universal radiator of 600 mm height, without thermostatic valve insert and with a kv-value of 2,4. When another radiator with a different kv-value is used the total kv-value and the radiator share can change.

Honeywell