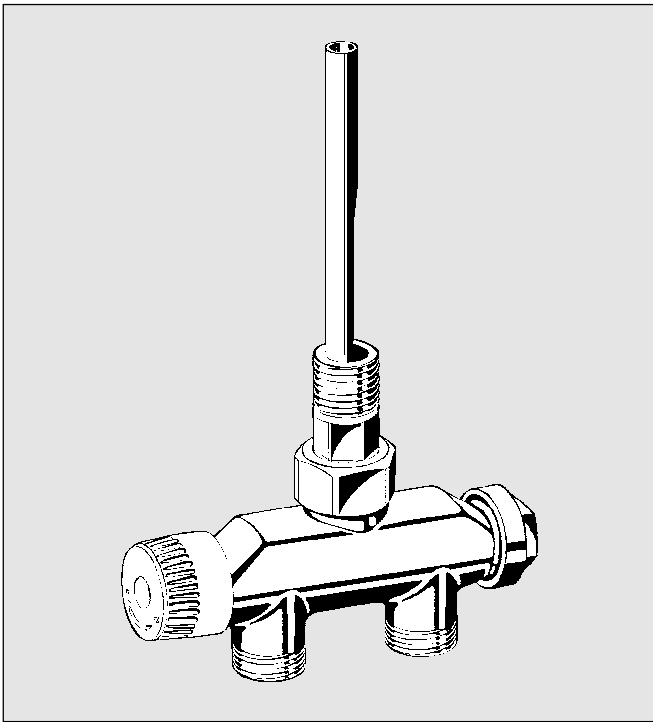


## Distribution valve with vertical lance

For one- and two-pipe systems

### Product specification sheet



#### Construction

The distribution valve with vertical lance consists of

- Valve housing with 3/4" external threads to DIN ISO 228 (Euro-cone)
- Lance with connection nut
- Thermostatic valve insert in the supply
- Valve insert in the return
- Protection cap with PTFE-ring

#### Materials

- Valve housing made of red bronze Rg 5 to DIN 1705, matt nickel-plated
- Valve inserts made of brass MS 58
- Connection nut and protection cap made of brass MS 58, nickel-plated
- Lance made of copper, nickel-plated
- O-rings made of EPDM

#### Application

Distribution valves with vertical lance are used to connect radiators to one- or two-pipe heating systems. Releasable connections under the floor are avoided. This type of valve is often used with design radiators.

The distribution valve with vertical lance is suitable for all Honeywell thermostatic valve heads and all Honeywell actuators with suitable valve connection (M30 x 1.5) and 11.5 mm closing stroke resp. 2.5 mm stroke.

#### Special Features

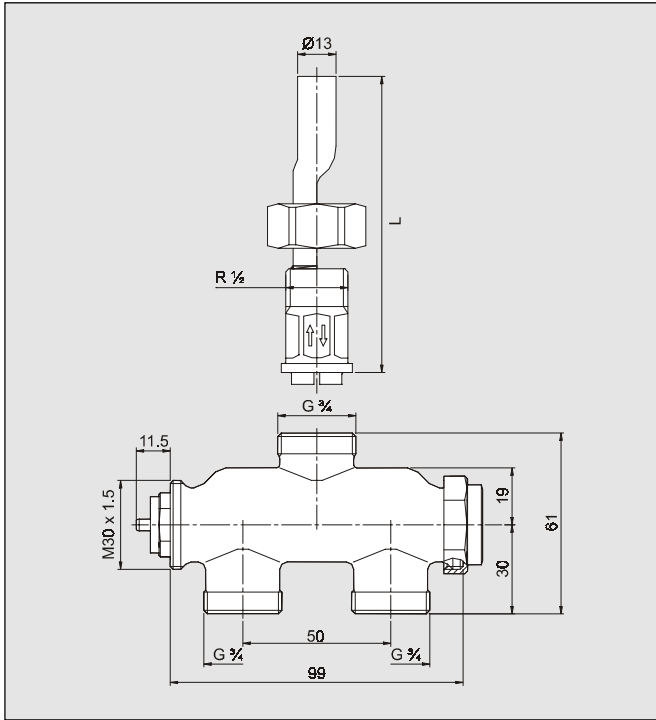
- Available for one-pipe or two-pipe systems
- Separate connection for supply and return pipe
- Separate valve insert for supply and return, integrated into the valve body
- Centre distance of pipe connections 50 mm
- Vertical lance leading into the radiator, Ø 13 mm
- Thermostatic radiator valve insert with flat cartridge, suitable for one- and two-pipe systems
- One-pipe version with adjustable radiator proportion of 0 to 35%
- Two-pipe version with pre-settable valve insert in the return
- Quiet operation

#### Range of Application

Medium	Hot water up to 130 °C (266 °F)
	pH-value 8–9,5

#### Specifications

Operating temperature	max. 130 °C (266 °F)
Operating pressure	max. 10 bar (145 p.s.i.)
Differential pressure	max. 1.0 bar (14.5 p.s.i.)
kvs-values	1.6 (one-pipe version) 1.3 (two-pipe version)
Thermostat thread	M30 x 1.5
Closing stroke	11.5 mm
Stroke	2.5 mm



**Method of Operation**

The distribution valve with vertical lance passes incoming hot water through the lance on into the radiator. The water returning from the radiator flows back through the valve into the heat circuit. This can be the next radiator or the return pipe to the distribution manifold (see installation example on next page).

When the valve is shut-off the radiator is isolated from the heat circuit. The supply of the following radiators in the heat circuit is not affected by this.

Type	R	DN	kvs-value	Part-No.	O.S.-No.
One-pipe, external threads	3/4"	15	1.60	2.39 00 57.015.000	V2280X0015
Two-pipe, external threads	3/4"	15	1.30	2.39 00 67.015.000	V2290X0015

**Accessories**

**External thread connection for copper and soft steel pipe, consisting of 2 compression rings, 2 compression nuts and 2 support inserts**

	3/4" x 10 mm	1.01 01 47.100.000
	3/4" x 12 mm	1.01 01 47.120.000
	3/4" x 14 mm	1.01 01 47.140.000
	3/4" x 15 mm	1.01 01 47.150.000
	3/4" x 16 mm	1.01 01 47.160.000
	3/4" x 18 mm	1.01 01 47.180.000

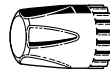
**External thread connection for plastic pipe, consisting of 2 compression rings, 2 compression nuts and 2 sleeves**

	3/4" x 12 x 2 mm	1.01 01 46.120.000
	3/4" x 14 x 2 mm	1.01 01 46.140.000
	3/4" x 16 x 2 mm	1.01 01 46.160.000
	3/4" x 17 x 2 mm	1.01 01 46.170.000
	3/4" x 18 x 2 mm	1.01 01 46.180.000

**External thread connection for composite pipe Unipipe and alpex-therm, consisting of 2 compression nuts and 2 sleeves**

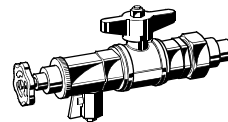
	3/4" x 14 x 2 mm	1.01 01 46.240.000
	3/4" x 16 x 2 mm	1.01 01 46.260.000
	3/4" x 18 x 2 mm	1.01 01 46.280.000

**Pre-settable handwheel, white**



1.00 03 14.370.000

**Service tool for exchange of thermostatic valve insert without draining the system**



1.08 11 01.000.000

**Spare thermostatic valve insert**



UBG type

1.00 09 82.010.000

**Special tool for thermostatic valve bodies and heads**



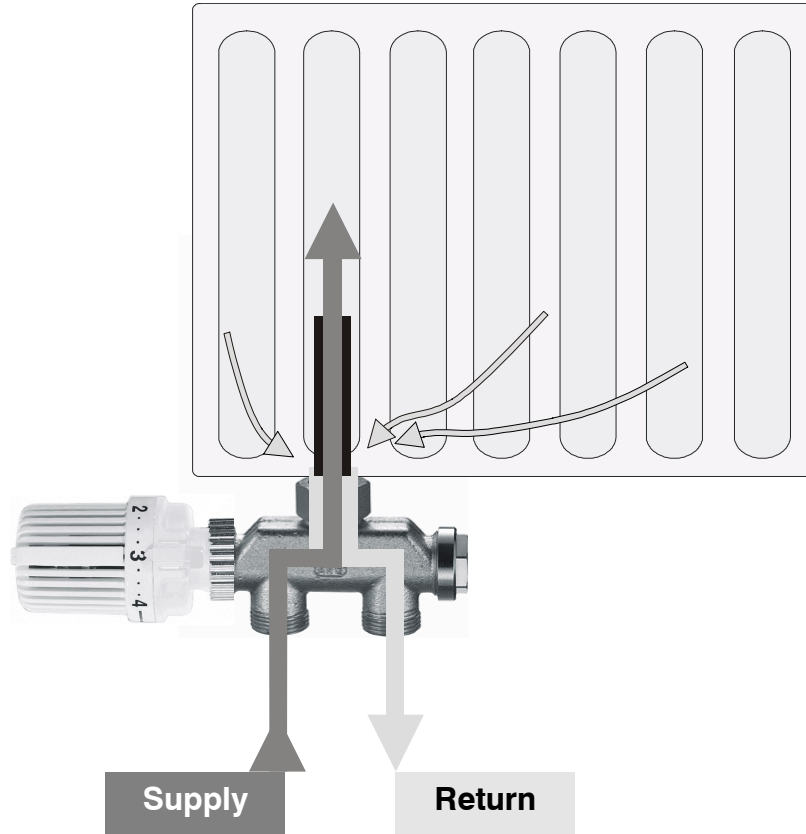
0.44 10 00.200.000

**Setting tool**



0.44 20 00.110.000

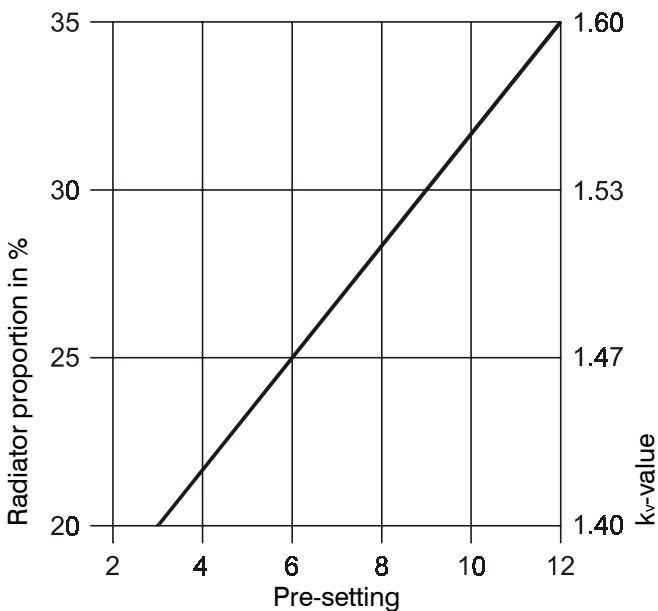
Installation example: radiator connection



Pre-setting of the return valve insert

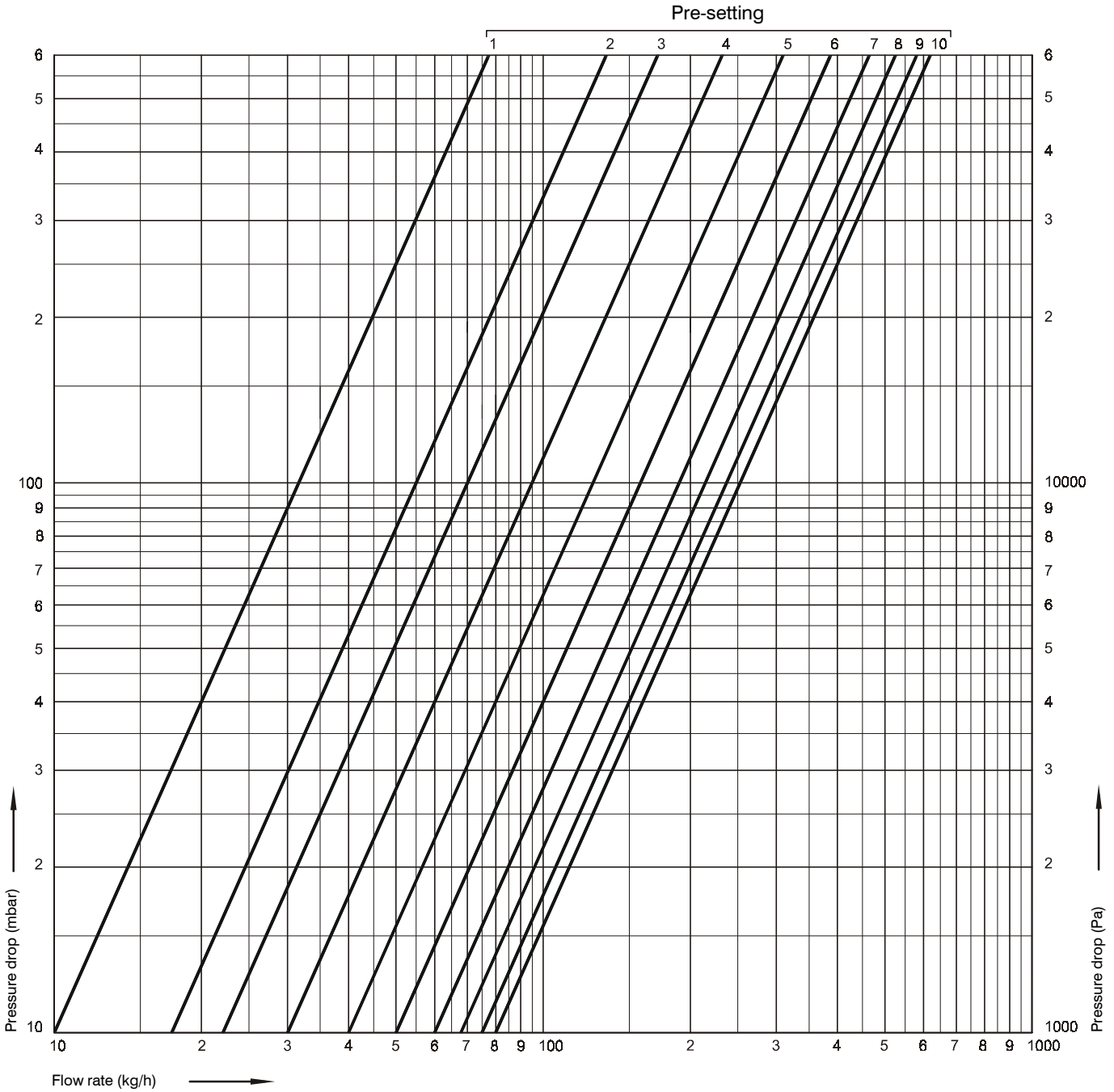
- Remove protection cap (SW 24).
- Close shut-off cartridge with 4 mm-Allen key by turning to the right till stop.
- Turn pre-setting screw with 5 mm-Allen key to the right till stop.
- Determine required pre-setting from diagram and turn pre-setting screw to the left. Required turns of pre-setting screw correspond with pre-setting value.
- Open shut-off cartridge with 4 mm-Allen key by turning to the left till stop.
- Fit protection cap.

Radiator proportion for one-pipe version



Radiator prop. in %	0	20	25	30	35
k <sub>v</sub> -value	1.16	1.40	1.47	1.53	1.60

Flow diagram for two-pipe version



Pre-setting and  $k_v$ -values at 3K P-difference

<b>Pre-setting</b>	1	2	3	4	5	6	7	8	9	10-12	open
<b><math>k_v</math>-value</b>	0.1	0.17	0.22	0.3	0.4	0.5	0.6	0.67	0.75	0.8	$k_{vs} = 1.3$

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