GENERAL INFORMATION - VENTIL KOMPAKT

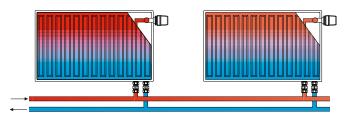
Two-pipe heating system

When installing VENTIL KOMPAKT steel panel radiators, it is necessary to preset the valve to such a position that the radiator will perform as calculated. It is the responsibility of the installer to make sure this has been done.

At the factory the valve is preset at level 8 and after rinsing and before the start of the heating test it must be set by a special key to the desired position.







Example of calculation

Target value: level of valve setting

Values known: heat output

cooling of water

pressure loss of radiator with valve

heat capacity of water

Solution: mass flow

level of presetting (see diagram):

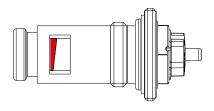
Q = 1135 W

 $t_1 - t_2 = 15 \text{ K (65/50 °C)}$ $\Delta p = 30 \text{ mbar}$

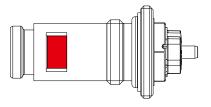
c = 1,163 Wh/kg.K

$$m = \frac{Q}{c \cdot (t_1 - t_2)} = \frac{1135}{1,163 \cdot 15} = 65 \text{ kg/h}$$

4



Level 4 presetting

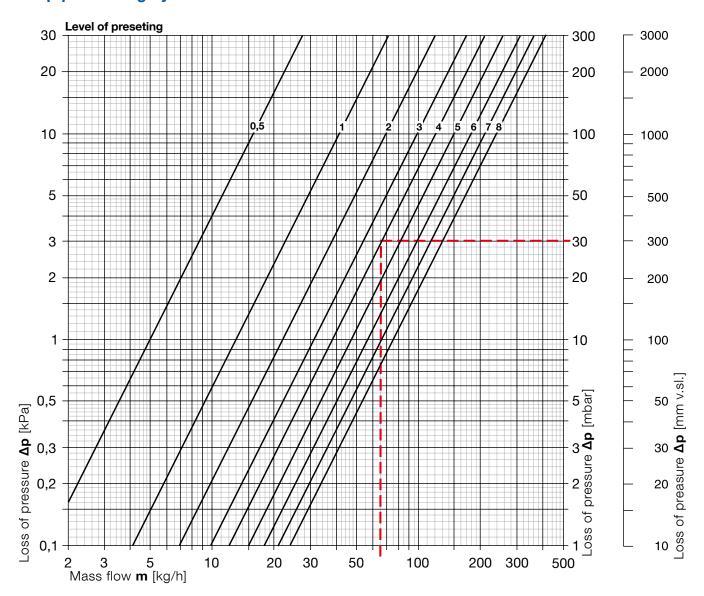


Level 8 presetting

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Table

Valve with thermostatic head																
Level of valve setting	0,5	1	1,5	2	2,5	3	3,5	4	4,5	5	5,5	6	6,5	7	7,5	8
k _v [m³/h]	0,05	0,13	0,18	0,22	0,27	0,31	0,35	0,38	0,42	0,47	0,52	0,57	0,62	0,66	0,71	0,75
Valve without thermostatic head																
Level of valve setting	0,5	1	1,5	2	2,5	3	3,5	4	4,5	5	5,5	6	6,5	7	7,5	8
k _{vs} [m³/h]	0,05	0,16	0,22	0,27	0,33	0,38	0,41	0,43	0,54	0,65	0,82	0,98	1,11	1,23	1,33	1,43

Highest allowed working temperature: 110 $^{\circ}\text{C}$

Highest allowed working pressure: 10 bar

The indicated values of $\mathbf{k}_{_{\!\scriptscriptstyle V}}$ comply with proportionality interval of 2K.