

# HKV2013A-AFC

## Heating manifold for underfloor heating

with automatic flow control

### Technical datasheet



## Description

### WATTS HKV2013A-50-1"-AFC Heating manifold with automatic flow control



Stainless steel round-tube manifold for 2 up to 12 heating circuits for distribution, shutoff and balancing of the heating/cooling water flow of radiant panel heating/cooling systems in compliance with BS EN 1264-4. The flow rate for each heating circuit can be continuously adjusted via a regulating shut-off valve integrated in the return circuit. The inspection glasses integrated into the manifold's supply enable visual function checks.

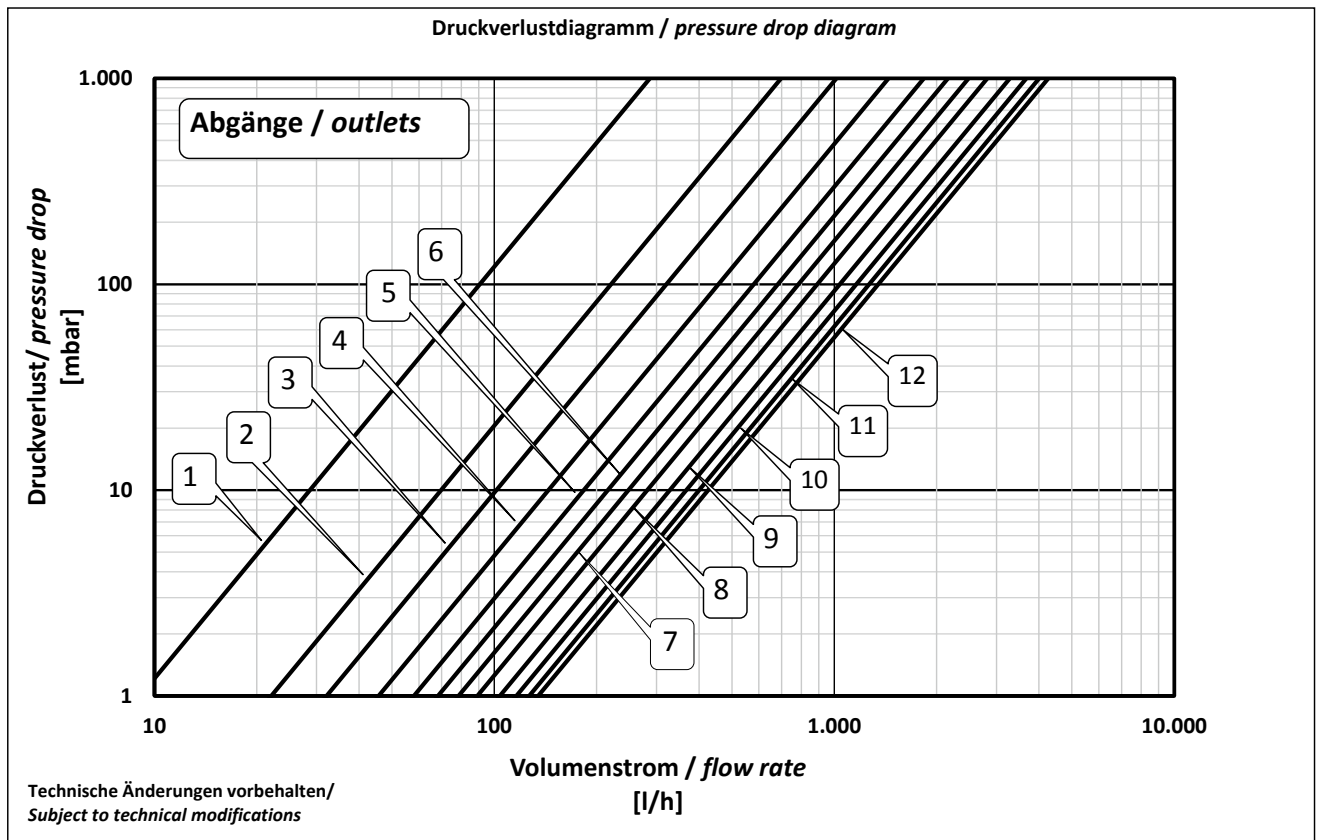
- M30x1.5 valve connection for all common actuators (optional accessory).
- Precise adjustment even at high flow rates.
- Premium quality O-ring valve gaskets (EPDM) ensure permanent ease of operation and high durability.
- 1" MT flat-sealing connections to heat generator, connection to heating circuits via 3/4" euro cone for clamp ring screw connections.
- Includes an end set with 3/4" swivel connection for shut-off, filling, draining and flushing.
- Ready-mounted on wall bracket, low-noise pipe clamps in accordance with DIN 4109.
- A wide range of supplementary systems, such as pump groups, hydraulic control units for manifolds, heat interface units and many more.

Type	Part no.	Heating circuits	Weight (kg)
HKV2013A-50-1"-AFC VA02	10081563	2	1.84
HKV2013A-50-1"-AFC VA03	10081564	3	2.14
HKV2013A-50-1"-AFC VA04	10081565	4	2.54
HKV2013A-50-1"-AFC VA05	10081566	5	2.84
HKV2013A-50-1"-AFC VA06	10081567	6	3.25
HKV2013A-50-1"-AFC VA07	10081568	7	3.70
HKV2013A-50-1"-AFC VA08	10081569	8	4.00
HKV2013A-50-1"-AFC VA09	10081570	9	4.26
HKV2013A-50-1"-AFC VA10	10081571	10	4.66
HKV2013A-50-1"-AFC VA11	10081572	11	5.01
HKV2013A-50-1"-AFC VA12	10081573	12	5.42



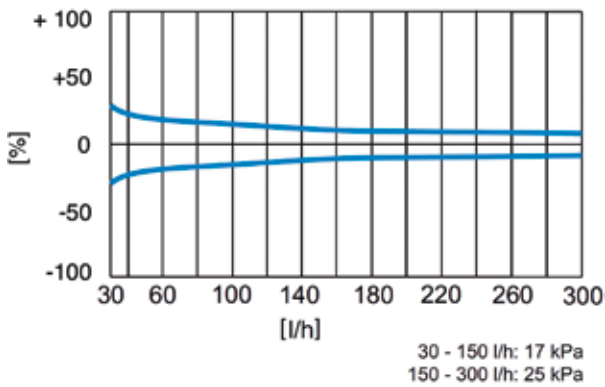
## Technical data

<b>Model</b>	<b>HKV2013A-50-1"-AFC</b>										
Application	Underfloor heating/cooling systems										
Function	Temperature control for individual rooms using actuators Automatic flow control Shut-off / filling / draining / flushing / venting										
Max. operating pressure	10 bar										
Flow range	The flow rate can be set continuously within the specified range: 30 to 300 l/h. Factory setting: 300 l/h.										
Differential pressure ( $\Delta p_V$ )	Max. differential pressure: 60 kPa (<30 dB(A)) Min. differential pressure: 30 to 150 l/h = 17 kPa / 150 to 300 l/h = 25 kPa										
Temperature	Max. operating temperature: 70°C Min. operating temperature: -5°C										
Pipe connections	Manifold: 1" MT End kit: 1" FT Connection with heating circuits: 3/4" with euro cone										
<b>Weight</b>	<b>...VA02</b>	<b>...VA03</b>	<b>...VA04</b>	<b>...VA05</b>	<b>...VA06</b>	<b>...VA07</b>	<b>...VA08</b>	<b>...VA09</b>	<b>...VA10</b>	<b>...VA11</b>	<b>...VA12</b>
Total weight without packaging (kg)	1.84	2.14	2.54	2.84	3.25	3.70	4.00	4.26	4.66	5.01	5.42
Total weight including packaging (kg)	2.15	2.45	2.85	3.15	3.65	4.10	4.40	4.75	5.15	5.50	5.96
<b>Materials</b>											
Manifold	Stainless steel 1.4301										
Screw connections / End kit	Nickel-plated brass										
O-rings	EPDM										
Valve disk	EPDM										
Pressure spring	Stainless steel										
Top part of thermostat	Brass, PPS										
Spindle	Stainless steel spindle										
Flat gaskets	AFM 2										

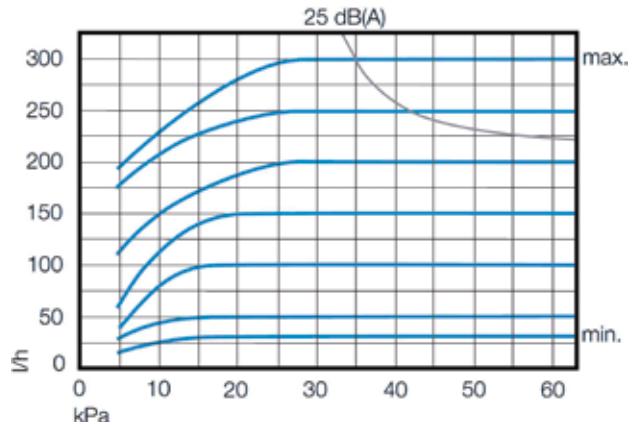


<b>Number of heating circuits</b>	1	2	3	4	5	6	7	8	9	10	11	12
<b>Kvs (m<sup>3</sup>/h)</b>	0.29	0.70	1.01	1.44	1.83	2.16	2.48	2.82	3.28	3.67	4.00	4.26

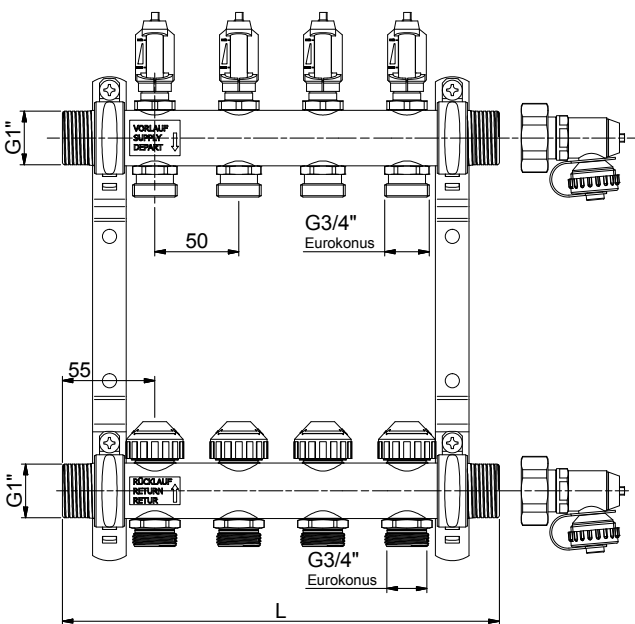
### Lowest flow tolerances



### Flow range per heating circuit: 30 to 300 l/h



## Dimensions



Heating circuits	L [mm]	Part no.
2	160	10081563
3	210	10081564
4	260	10081565
5	310	10081566
6	360	10081567
7	410	10081568
8	460	10081569
9	510	10081570
10	560	10081571
11	610	10081572
12	660	10081573

## Product descriptions

### WATTS heating circuit manifold 1" MT with automatic flow control, type HKV2013A-50-1"-AFC

Stainless steel (1.4301) round-tube manifold for 2 up to 12 heating circuits for distribution, shutoff and balancing of the heating/cooling water flow of radiant panel heating/cooling systems in compliance with BS EN 1264-4. Contains a control and shut off valve for each return connection with included flow control for automatic hydraulic balancing, with continuous adjustment from 30 to 300 l/h. M30x1.5 valve connection for common actuators (optional accessory). Continuously adjustable regulating valves allow for precise adjustment even at high flow rates. Premium quality O-ring valve gaskets (EPDM) ensure permanent ease of operation and high durability. Visual flow control for each heating circuit by means of a flow meter with an inspection glass and shut-off valve integrated in the supply circuit. 1" MT flat-sealing connections to heat generator, connection to heating circuits via 3/4" euro cone for clamp ring screw connections; centre distance of outputs: 50 mm. Includes a 1" FT KFE90 end set with 3/4" swivel connection for shut-off, filling, draining and flushing. Supply line at top; ready-mounted on wall bracket, low-noise pipe clamps in accordance with DIN 4109. Certified to in-house standard WI10081564N. Wide - range of accessories including actuators, thermostatic heads, manifold cabinets, fixed set point control units, pump groups, electrical connecting boxes and many more.

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