



- for thermally controlled radiant floors or walls
- for low-temperature heating installations

Flat-sealing connections 1 1/2" external thread incl. 1 1/2" union nut for the installation on a PAW modular distribution manifold. With PAW mounting equipment, the heating circuit can be installed on wall brackets.

Thermal control valve (adjustable) prevents the flow temperature from rising above the set maximum temperature. The control valve also enables to adjust the maximum temperature appropriately to the installation (40 - 50 °C).

Bypass (adjustable on the front) increases the circulating water quantity and decreases the flow temperature when open.

Contact thermostat, adjustable in the range of 20-60 °C, when the adjusted temperature is exceeded a switch is activated and shuts off the pump.

Pumps fitted with 2 m cable, pre-installed, ALPHA pump with right-angle plug, completely preassembled, integrated in the insulation, pressure tested, with serial number

Check valve in the mixing valve prevents noise when electronically controlled pumps are used, can be opened, 200 mm water column, spring-loaded, thus suited for horizontal and overhead installation

Flow and return line can be changed on site, the mixing valve can be easily adapted. The heating circuits can be delivered with flow on the left against additional charge.

### Thermal control valve Function

1. The thermal control valve keeps the flow line of the mixing valve completely open as long as the water from the flow line to the heat exchanger (consumer) is colder than the limit temperature of the thermal control valve.
2. When the water in the flow line has obtained the limit temperature (+/- 5 K) of the thermal control valve, the valve shuts off the flow line of the storage tank/modular distribution manifold and opens to the same extent the bypass return line (coming from the consumers). The cold water from the bypass return line is mixed in the control valve when the hot water from the flow line. Depending on the temperature, the thermal control valve opens or shuts off the flow line of the storage tank/modular distribution manifold.
3. With rising temperature in the flow line or rising temperature from the consumer return line, the thermal control valve shuts off the inlet of hot water. The temperature of the flow line to the heat exchanger/consumer remains approximately constant (+/- 3K).

### TECHNICAL DATA K33MAX - DN 25

<b>Materials</b>	
Valves and fittings	Brass
Gaskets	EPDM / NBR
Insulation	EPP
<b>Technical data</b>	
Controller range	35-55 °C
Nominal pressure	8 bar
Max. operating temperature	110 °C
Kvs value	4.0
<b>Equipment</b>	
Contact thermostat	20-60 °C
<b>Dimensions</b>	
Connection generator	1 1/2" ext. thread, flat sealing
Connection consumer	1" internal thread
Centre distance	125 mm
Installation length	345 mm
Width	250 mm
Height	396 mm
<b>Recommended range of application, max.</b>	
Temperature difference 10 K	up to 1380 l/h
	up to 16 kW

Differential pressure diagram K33MAX

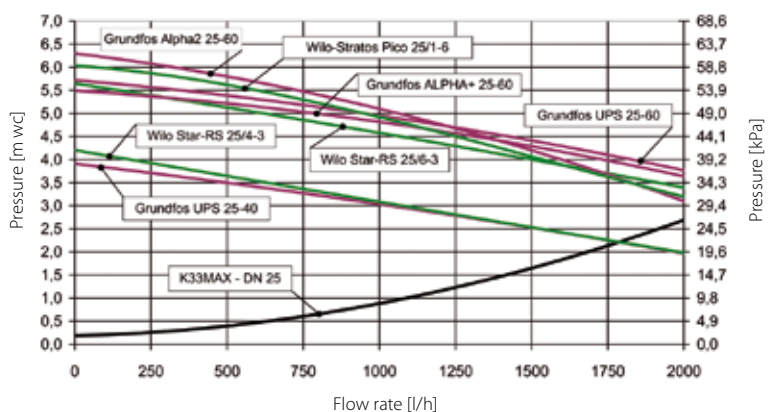



Illustration	K33MAX - DN 25	Energy	€	Item no.
	Wilo-Stratos PICO 25/1-6, high-efficiency pump	A	▲	360452WH6
	Wilo Star-RS 25/6, 3-speed	B	▲	360452WI6
	Wilo Star-RS 25/4-3, 3-speed	B	▲	360452WI4
	Grundfos ALPHA2 25-60 180, high-efficiency pump	A	▲	360452GH6
	Grundfos UPS 25-60, 3-speed	C	▲	360452GR6
	Grundfos UPS 25-40, 3-speed	C	▲	360452GR4
	<b>for pumps with 1½" external thread x 180 mm</b>		●	360452
	<b>Extra charge for assembly with flow on the left per heating circuit</b>			999300

## Mounting equipment K33MAX - DN 25

### Overflow set DN 25/DN 32

**2854**

see page 68

### Wall bracket set DN 25

**3422SET**

see page 68

### Connection set DN 25

**3431**

see page 68

### Conversion kit for thermal control valve

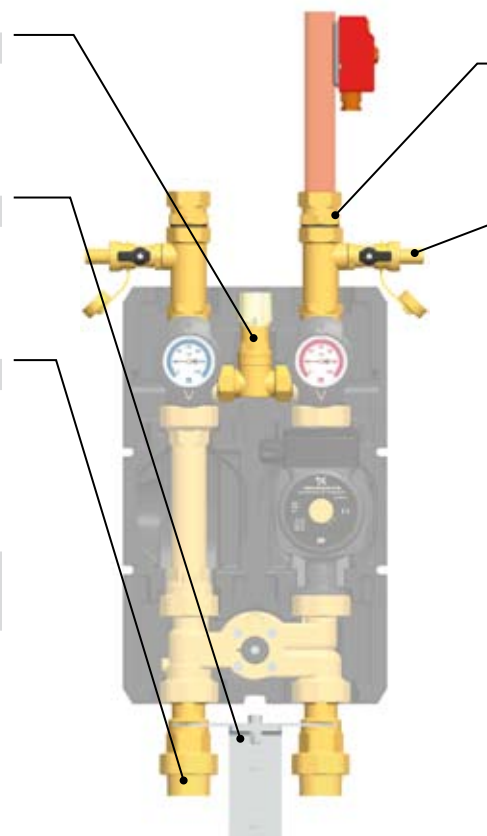
**34044R**

from flow on the left to flow on the right

**34044L**

from flow on the right to flow on the left

see page 69



### Clamping-ring compression fitting 1"

**5628**

d = 28 mm

see page 68

### Flush and drain set DN 25

**3461**

see page 68see page

### Cutting-ring compression fitting DN 25

**562915**

d = 15 mm

**562918**

d = 18 mm

**562922**

d = 22 mm

see page 68