



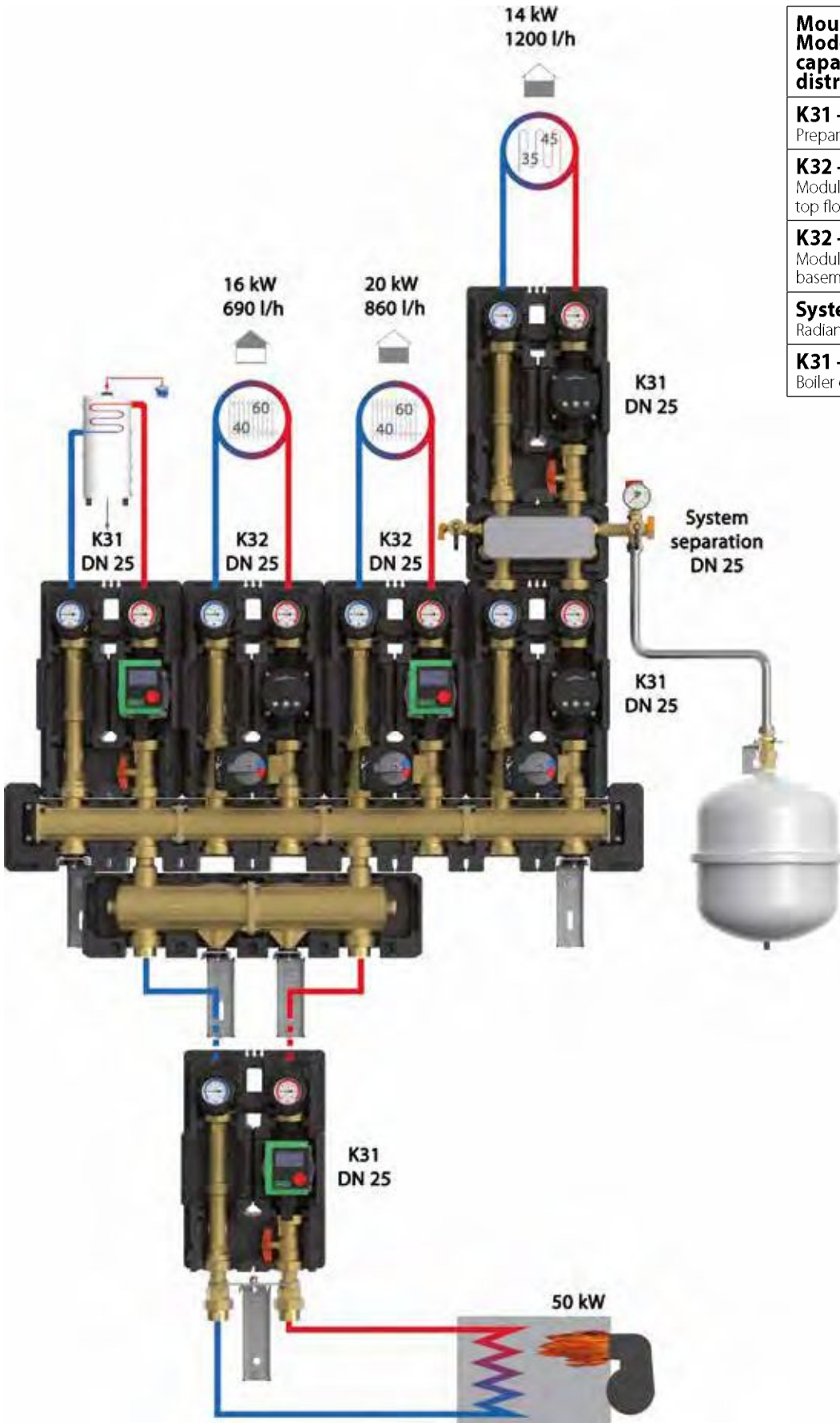
## HeatBloC® DN 25

Catalogue 01/2018

Systems, valves and fittings for the use  
in hot water heating systems

Valid for the UK

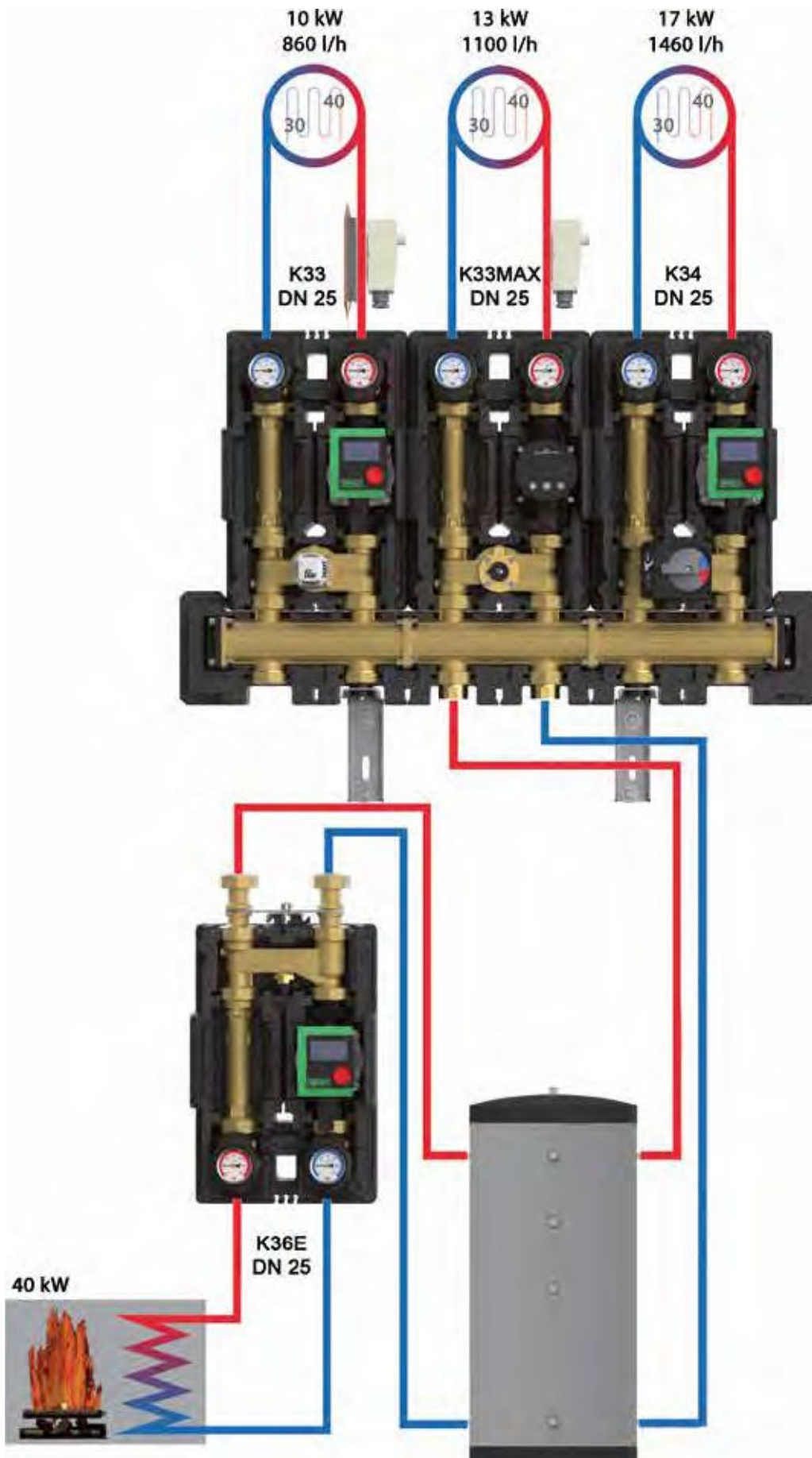




<p><b>Mounting example:</b> Model house for maximum capacity of 80 kW of a distribution manifold DN 25</p>
<p><b>K31 - DN 25,</b> Preparation of domestic hot water</p>
<p><b>K32 - DN 25,</b> Modulating temperature heating, top floor</p>
<p><b>K32 - DN 25,</b> Modulating temperature heating, basement</p>
<p><b>System separation - DN 25,</b> Radiant floor heating, basement</p>
<p><b>K31 - DN 32,</b> Boiler circuit</p>



## Modular system DN 25 Mounting example



**Mounting example:**  
Distribution manifold  
DN 25 with solid fuel  
boiler, capacity of 40 kW

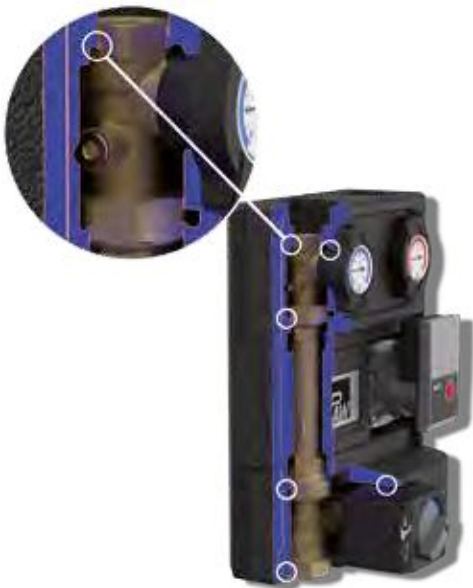
**K33 - DN 25,**  
Small radiant floor heating

**K33MAX - DN 25,**  
Low-temperature heating

**K34 - DN 25,**  
Radiant floor heating

**K36E - DN 25,**  
Solid fuel boiler





**All HeatBloC®s offer the following advantages:**

**Preassembled group of fittings for heating circuits**

**High flexibility during assembly**  
 modules can be combined as required

**Full port ball valve, gaskets of the spindle can be replaced during operation**

**Flat-sealing connections 1½" external thread**  
 with 1½" union nut for assembly on PAW distribution manifolds with PAW mounting equipment, the HeatBloCs can be installed on wall brackets

**Large ball valve handles,**  
 easy handling, visible closing position

**EnEV-compliant functional insulation**  
 made of permanently elastic EPP, complete insulation of the valves and fittings with sealing lips, ventilation duct to cool the pump

**Free access to the pump head**

**Check valve in the return pipe**  
 can be opened, 200 mm wc, spring-loaded, thus suited for horizontal and overhead installation

**PAW mixing valve with suitable actuator**  
 Easy assembly and disassembly thanks to the smart PAW snap-in mechanism

**Flow on the right = standard**  
 The HeatBloC®s can be delivered with flow on the left against additional charge.

**Flow and return line can be changed on site,**  
 also for heating circuits with mixing valve

**All water-carrying parts are made of brass**

**Full metal thermometers**  
 can be pulled off, with immersion sleeve integrated in the ball valve

**PAW heating pumps with high-efficiency (ECM) technology**  
 fitted with 2 m cable, completely premounted, integrated in the insulation, pressure tested, with serial number, perfectly designed system, pump characteristics, EuP/ErP READY

**Pump can be isolated,**  
 so that it can be replaced without draining

As of page 98, you will find the complete mounting equipment for the modular system DN 25.



# Product range HeatBloC® Heating circuits and modular distribution manifolds DN 25 - Types

**K31**  
direct / unmixed



up to 50 kW\*

**K32**  
with 3-way mixing valve



up to 40 kW\*

**K33**  
Controlled circuit with constant  
value, 3-way mixing valve  
with bypass 0-50%



up to 10 kW\*

**K33MAX**  
Controlled circuit with constant  
value, 3-way mixing valve  
with bypass 0-50%



up to 16 kW\*

**K34**  
3-way mixing valve  
with bypass 0-50%



up to 45.5 kW\*

**K35**  
3-temperature mixing valve



up to 32.5 kW\*

**K36E**  
Boiler charging set,  
with integrated overflow valve



up to 40 kW\*

**K38**  
with 4-way mixing valve



up to 33 kW\*

**System separation**



up to 25 kW\*

**Modular distribution manifold**  
2-fold, 3-fold, 4-fold, 5-fold, 6-fold



up to 80 kW\*  
for each boiler connection

**Hydraulic separators**



up to 3500 l/h

DN 25

\*Temperature difference = 20 K



### Application range

- for boiler charging, for modulating temperature heating systems

### Recommended range of application

- up to 50 kW
- 20 K up to 2150 l/h

### Operating data

Max. pressure	6 bars
Max. operating temperature	110 °C
Kvs value	7.2

### Technical data

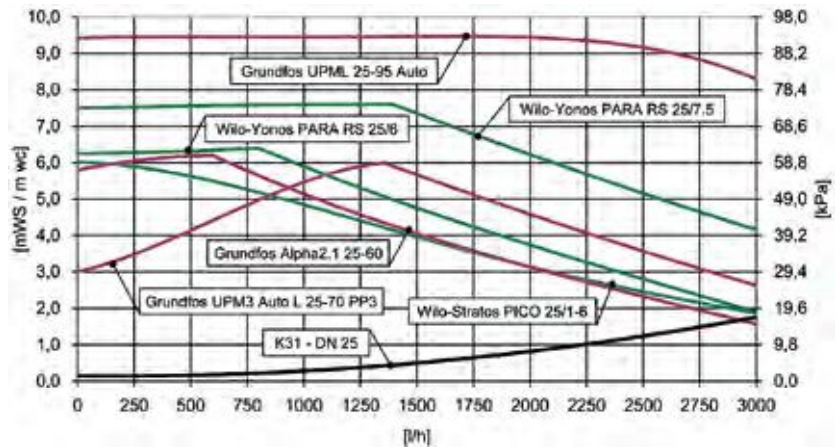
#### Dimensions

Nominal diameter	DN 25 (1")
Connection generator	1½" external thread, flat sealing
Connection consumer	1" internal thread
(1) Height	383 mm
(2) Installation length	340 mm
(3) Centre distance	125 mm
(4) Width	250 mm

#### Materials

Valves and fittings	Brass
Gaskets	EPDM
Insulation	EPP

### Differential pressure diagram



### HeatBloC® K31 - DN 25 (1")



**Wilo-Stratos PICO 25/1-6**

< 0.20



**36013WH6**

-

**Wilo-Yonos PARA RS 25/6-RKA**

< 0.20



**36013WY6**

-

**Wilo-Yonos PARA RS 25/7.5-RKA**

< 0.21



**36013WY8**

-

**Grundfos UPM3 Auto L 25-70 PP3**

< 0.20



**36013GM6**

-

**Grundfos Alpha2.1 25-60**

< 0.17



**36013GH6**

-

**Grundfos UPML 25-95 Auto**

< 0.23



**36013GL9**

-

**for pumps with 1½" ext. thread x 180 mm**



**36013**

-

### Wall bracket DN 25 - DN 32

**34723** -

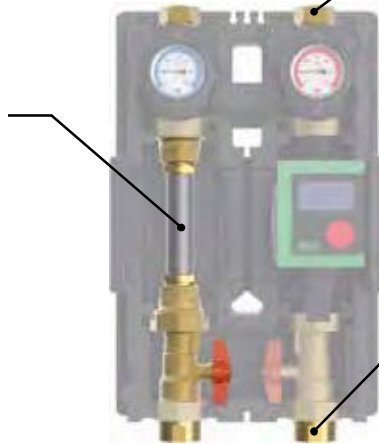
See page 99



### Fitting for heat flowmeter DN 25 for unmixed HeatBloCs

**433445** -

See page 98



### K31 with fitting

**36113** -

unmixed HeatBloC K31 DN 25 (1"), as described on the left, but with preassembled fitting for heat flowmeter, without pump

### Cutting-ring compression fittings 1"

<b>562915</b>	d = 15 mm	-
<b>562918</b>	d = 18 mm	-
<b>562922</b>	d = 22 mm	-

See page 99

### Wall bracket set DN 25

**3422SET** -

See page 99

### Connection set DN 25

**3431** -

See page 99

### Flush and drain set DN 25

**3461** -

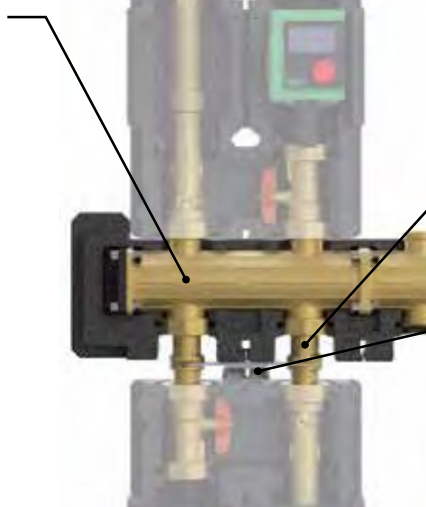
See page 99



### Modular distribution manifold - DN 25

<b>34123</b>	<b>2-fold</b>	-
<b>34133</b>	<b>3-fold</b>	-
<b>34143</b>	<b>4-fold</b>	-
<b>34153</b>	<b>5-fold</b>	-
<b>34163</b>	<b>6-fold</b>	-

See page 94



### Mounting plate DN 25

**3425** -

See page 98

### Coupling piece for overhead installation DN 25

**34241** -

See page 98

### Wall bracket set for distribution manifolds

**34721** -

See page 99

### Wall bracket DN 25 - DN 32

**34722** for HeatBloC -

See page 99





### Application range

- for heating systems controlled by a mixing valve

### Recommended range of application

- up to 40 kW
- 20 K up to 1750 l/h

### Operating data

Max. pressure	6 bars
Max. operating temperature	110 °C
Kvs value	5.7

### Technical data

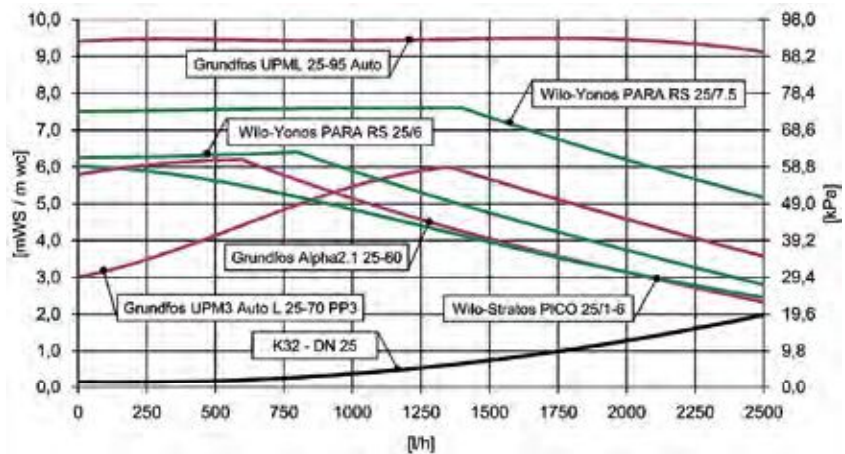
#### Dimensions

Nominal diameter	DN 25 (1")
Connection generator	1½" external thread, flat sealing
Connection consumer	1" internal thread
(1) Height	383 mm
(2) Installation length	340 mm
(3) Centre distance	125 mm
(4) Width	250 mm

#### Materials

Valves and fittings	Brass
Gaskets	EPDM
Insulation	EPP

### Differential pressure diagram



DN 25

### HeatBloC® K32 - DN 25 (1")



	EEI*	incl.	Item no.	€/ piece
<b>Wilo-Stratos PICO 25/1-6</b>	< 0.20	▲M	<b>36053MWH6</b>	-
<b>Wilo-Yonos PARA RS 25/6-RKA</b>	< 0.20	▲M	<b>36053MWH6</b>	-
<b>Wilo-Yonos PARA RS 25/7.5-RKA</b>	< 0.21	▲M	<b>36053MWH8</b>	-
<b>Grundfos UPM3 Auto L 25-70 PP3</b>	< 0.20	▲M	<b>36053MGM6</b>	-
<b>Grundfos Alpha2.1 25-60</b>	< 0.17	▲M	<b>36053MGH6</b>	-
<b>Grundfos UPML 25-95 Auto</b>	< 0.23	▲M	<b>36053MGL9</b>	-
<b>for pumps with 1½" ext. thread x 180 mm</b>		⊖M	<b>36053M</b>	-
<b>Wilo-Stratos PICO 25/1-6</b>	< 0.20	▲	<b>36053WH6</b>	-
<b>Wilo-Yonos PARA RS 25/6-RKA</b>	< 0.20	▲	<b>36053WH6</b>	-
<b>Wilo-Yonos PARA RS 25/7.5-RKA</b>	< 0.21	▲	<b>36053WH8</b>	-
<b>Grundfos UPM3 Auto L 25-70 PP3</b>	< 0.20	▲	<b>36053GM6</b>	-
<b>Grundfos Alpha2.1 25-60</b>	< 0.17	▲	<b>36053GH6</b>	-
<b>Grundfos UPML 25-95 Auto</b>	< 0.23	▲	<b>36053GL9</b>	-
<b>for pumps with 1½" ext. thread x 180 mm</b>		⊖	<b>36053</b>	-
<b>Extra charge for assembly with flow on the left per HeatBloC (no discount possible)</b>			<b>999300</b>	-



## Wall bracket DN 25 - DN 32

**34723** -

See page 99



## Cutting-ring compression fittings 1"

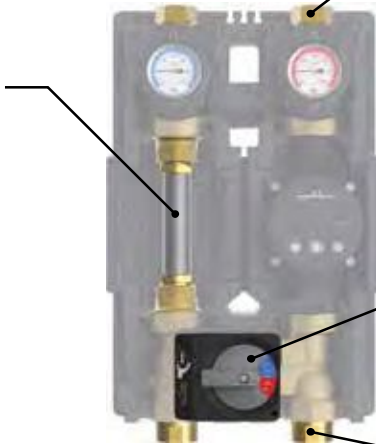
<b>562915</b>	d = 15 mm	-
<b>562918</b>	d = 18 mm	-
<b>562922</b>	d = 22 mm	-

See page 99

## Fitting for heat flowmeter DN 25 for mixed HeatBloCs

**433446** -

See page 98



## Wall bracket set DN 25

**3422SET** -

See page 99

## K32 with fitting

**36153** -

mixed HeatBloC K32 DN 25 (1"), as described on the left, but with preassembled fitting for heat flowmeter, without pump

## Actuator SR5

**705001** -

See page 100

## Connection set DN 25

**3431** -

See page 99

## Flush and drain set DN 25

**3461** -

See page 99



## Non-return valve for the mixing valve return

**340112** -

See page 100



## Mounting plate DN 25

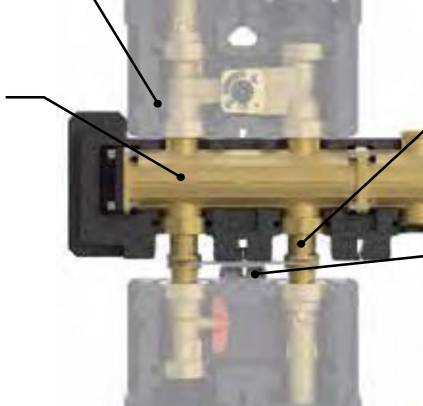
**3425** -

See page 98

## Modular distribution manifold - DN 25

<b>34123</b>	<b>2-fold</b>	-
<b>34133</b>	<b>3-fold</b>	-
<b>34143</b>	<b>4-fold</b>	-
<b>34153</b>	<b>5-fold</b>	-
<b>34163</b>	<b>6-fold</b>	-

See page 94



## Coupling piece for overhead installation DN 25

**34241** -

See page 98

## Wall bracket DN 25 - DN 32

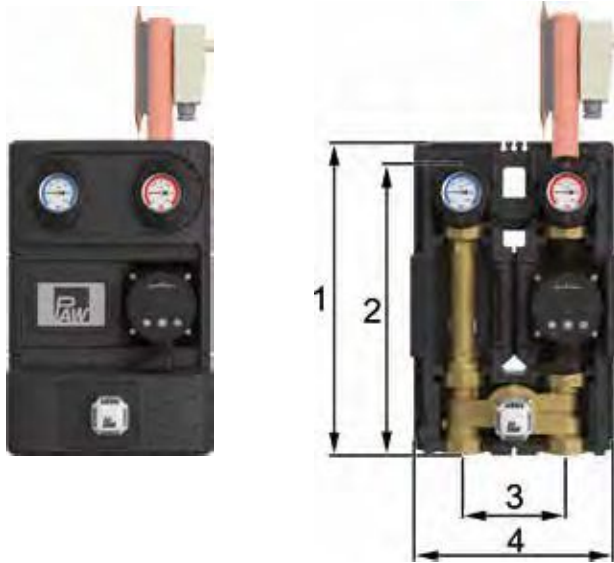
**34722** for HeatBloC -

See page 99

## Wall bracket set for distribution manifolds

**34721** -

See page 99



### Application range

- for radiant floor heating from 3.5 kW
- for low-temperature heating installations

### Recommended range of application

- up to 10 kW
- 10 K up to 860 l/h

### Operating data

Max. pressure	6 bars
Max. operating temperature	110 °C
Kvs value	3.0

### Technical data

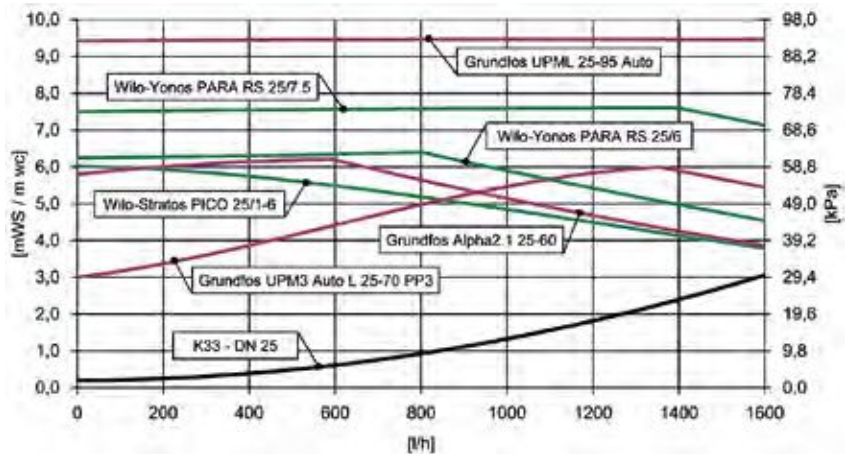
#### Dimensions

Nominal diameter	DN 25 (1")
Connection generator	1½" external thread, flat sealing
Connection consumer	1" internal thread
(1) Height	383 mm
(2) Installation length	340 mm
(3) Centre distance	125 mm
(4) Width	250 mm

#### Materials

Valves and fittings	Brass
Gaskets	EPDM
Insulation	EPP

### Differential pressure diagram



### HeatBloC® K33 - DN 25 (1")



	EEl*	incl.	Item no.	€ / piece
Wilo-Stratos PICO 25/1-6	< 0.20	▲	36073WH6	-
Wilo-Yonos PARA RS 25/6-RKA	< 0.20	▲	36073WY6	-
Wilo-Yonos PARA RS 25/7.5-RKA	< 0.21	▲	36073WY8	-
Grundfos UPML 25-95 Auto	< 0.23	▲	36073GL9	-
Grundfos Alpha2.1 25-60	< 0.17	▲	36073GH6	-
Grundfos UPM3 Auto L 25-70 PP3	< 0.20	▲	36073GM6	-
for pumps with 1½" ext. thread x 180 mm		⊖	36073	-
Extra charge for assembly with flow on the left per HeatBloC (no discount possible)			999300	-

## Wall bracket DN 25 - DN 32

**34723** -

See page 99

## Fitting for heat flowmeter DN 25 for mixed HeatBloCs

**433446** -

See page 98

## Cutting-ring compression fittings 1"

<b>562915</b>	d = 15 mm	-
<b>562918</b>	d = 18 mm	-
<b>562922</b>	d = 22 mm	-

See page 99

## Wall bracket set DN 25

**3422SET** -

See page 99

## Connection set DN 25

**3431** -

See page 99



## Flush and drain set DN 25

**3461** -

See page 99

## Conversion kit for changing the flow line

**340711** from flow on the left to flow on the right -

**340722** from flow on the right to flow on the left -

See page 183

## Conversion kit for K33MAX

**340713** for flow on the right -

**340723** for flow on the left -

See page 183

## Modular distribution manifold - DN 25

**34123** 2-fold -

**34133** 3-fold -

**34143** 4-fold -

**34153** 5-fold -

**34163** 6-fold -

See page 94



## Coupling piece for overhead installation DN 25

**34241** -

See page 98

## Mounting plate DN 25

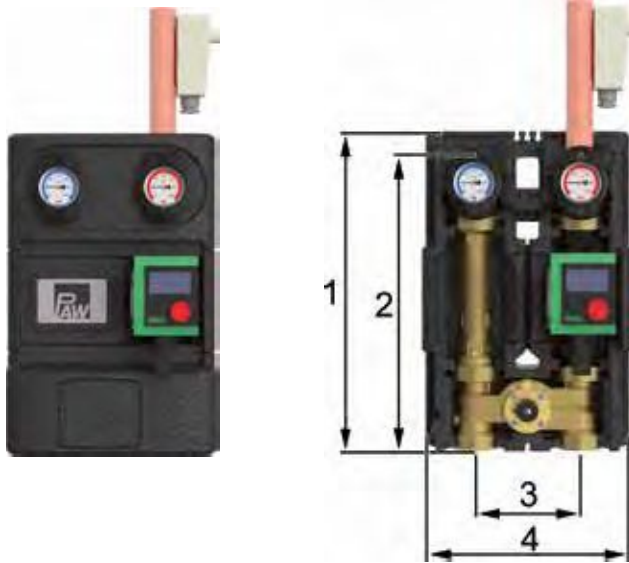
**3425** -

See page 98

## Wall bracket DN 25 - DN 32 for HeatBloC

**34722** -

See page 99



### Application range

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

### Recommended range of application

- up to 16 kW
- 10 K up to 1380l/h

### Operating data

Max. pressure	6 bars
Max. operating temperature	110 °C
Kvs value	4.1
Adjustment range of the bypass	0 - 50 %
Controller range of the thermostat	20-60 °C

### Technical data

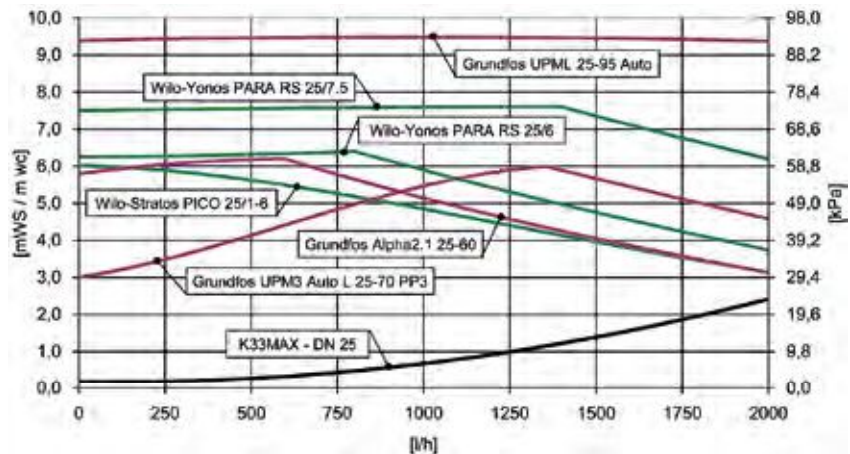
#### Dimensions

Nominal diameter	DN 25 (1")
Connection generator	1½" external thread, flat sealing
Connection consumer	1" internal thread
(1) Height	383 mm
(2) Installation length	340 mm
(3) Centre distance	125 mm
(4) Width	250 mm

#### Materials

Valves and fittings	Brass
Gaskets	EPDM
Insulation	EPP

### Differential pressure diagram



### HeatBloC K33MAX - DN 25 (1")

	EEI*	incl.	Item no.	€ / piece
Wilo-Stratos PICO 25/1-6	< 0.20	▲	360453WH6	-
Wilo-Yonos PARA RS 25/6-RKA	< 0.20	▲	360453WY6	-
Wilo-Yonos PARA RS 25/7.5-RKA	< 0.21	▲	360453WY8	-
Grundfos UPML 25-95 Auto	< 0.23	▲	360453GL9	-
Grundfos Alpha2.1 25-60	< 0.17	▲	360453GH6	-
Grundfos UPM3 Auto L 25-70 PP3	< 0.20	▲	360453GM6	-
for pumps with 1½" ext. thread x 180 mm		⊖	360453	-
Extra charge for assembly with flow on the left per HeatBloC (no discount possible)			999300	-





## Thermal control valve, adjustable

### 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 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 ( $\pm 5 \text{ K}$ ) 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 return line (coming from the consumers). The cold water from the return line is mixed in the control valve with 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 ( $\pm 3 \text{ K}$ ).

### Wall bracket DN 25 - DN 32

**34723** -

See page 99

### Wall bracket set DN 25

**3422SET** -

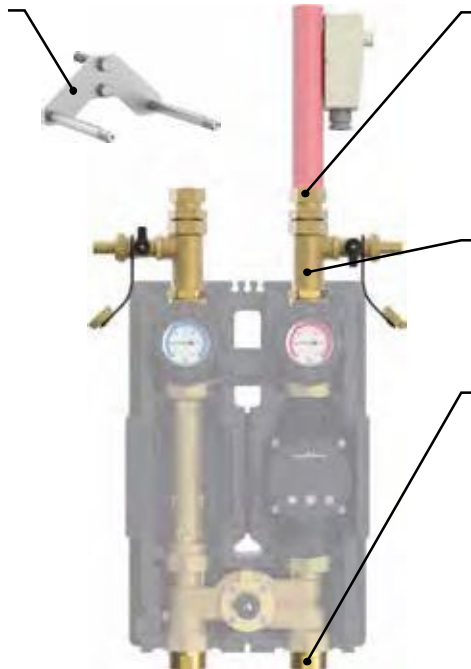
See page 99

### 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 183



### Cutting-ring compression fittings 1"

**562915** d = 15 mm -

**562918** d = 18 mm -

**562922** d = 22 mm -

See page 99

### Flush and drain set DN 25

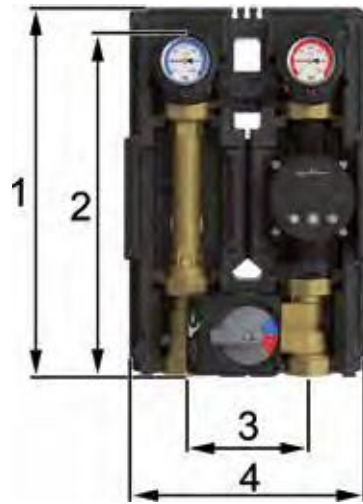
**3461** -

See page 99

### Connection set DN 25

**3431** -

See page 99



### Application range

- for mixed low-temperature heating

### Recommended range of application

- up to 45.5 kW
- 20 K up to 1940 l/h

### Operating data

Max. pressure	6 bars
Max. operating temperature	110 °C
Kvs value	6.0

### Technical data

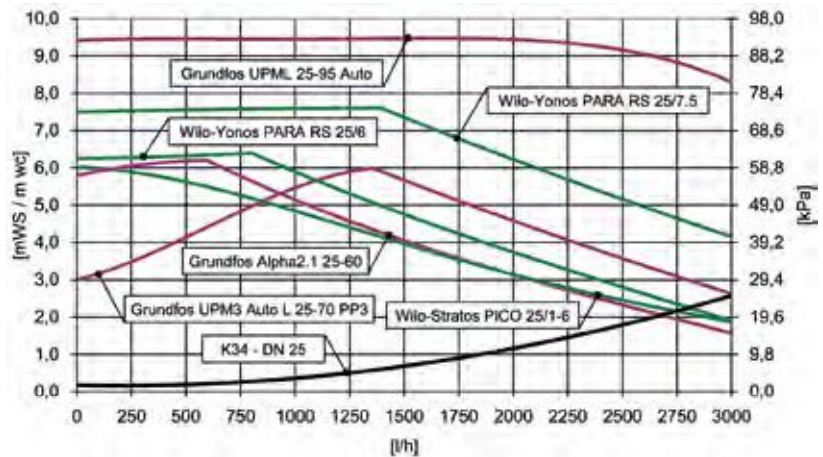
#### Dimensions

Nominal diameter	DN 25 (1")
Connection generator	1½" external thread, flat sealing
Connection consumer	1" internal thread
(1) Height	383 mm
(2) Installation length	340 mm
(3) Centre distance	125 mm
(4) Width	250 mm

#### Materials

Valves and fittings	Brass
Gaskets	EPDM
Insulation	EPP

### Differential pressure diagram



DN 25

### HeatBloC® K34 - DN 25 (1")



	EEI*	incl.	Item no.	€ / piece
<b>Wilo-Stratos PICO 25/1-6</b>	< 0.20	▲M	<b>36063MWH6</b>	-
<b>Wilo-Yonos PARA RS 25/6-RKA</b>	< 0.20	▲M	<b>36063MWH6</b>	-
<b>Wilo-Yonos PARA RS 25/7.5-RKA</b>	< 0.21	▲M	<b>36063MWH8</b>	-
<b>Grundfos Alpha2.1 25-60</b>	< 0.17	▲M	<b>36063MGH6</b>	-
<b>Grundfos UPM3 Auto L 25-70 PP3</b>	< 0.20	▲M	<b>36063MGM6</b>	-
<b>Grundfos UPML 25-95 Auto</b>	< 0.23	▲M	<b>36063MGL9</b>	-
<b>for pumps with 1½" ext. thread x 180 mm</b>		⊖M	<b>36063M</b>	-
<b>Wilo-Stratos PICO 25/1-6</b>	< 0.20	▲	<b>36063WH6</b>	-
<b>Wilo-Yonos PARA RS 25/6-RKA</b>	< 0.20	▲	<b>36063WH6</b>	-
<b>Wilo-Yonos PARA RS 25/7.5-RKA</b>	< 0.21	▲	<b>36063WH8</b>	-
<b>Grundfos Alpha2.1 25-60</b>	< 0.17	▲	<b>36063GH6</b>	-
<b>Grundfos UPM3 Auto L 25-70 PP3</b>	< 0.20	▲	<b>36063GM6</b>	-
<b>Grundfos UPML 25-95 Auto</b>	< 0.23	▲	<b>36063GL9</b>	-
<b>for pumps with 1½" ext. thread x 180 mm</b>		⊖	<b>36063</b>	-
<b>Extra charge for assembly with flow on the left per HeatBloC (no discount possible)</b>			<b>999300</b>	-

### Wall bracket DN 25 - DN 32

**34723** -

See page 99

### Fitting for heat flowmeter DN 25 for mixed HeatBloCs

**433446** -

See page 98

### K34 with fitting

**36163** -

HeatBloC K34 DN 25 (1") with 3-way mixing valve, as described on the left, but with preassembled fitting for heat flowmeter, without pump

### Connection set DN 25

**3431** -

See page 99

### Contact thermostat

**Q00145** 20-60 °C -

See page 100

### Cutting-ring compression fittings 1"

**562915** d = 15 mm -

**562918** d = 18 mm -

**562922** d = 22 mm -

See page 99

### Actuator SR5

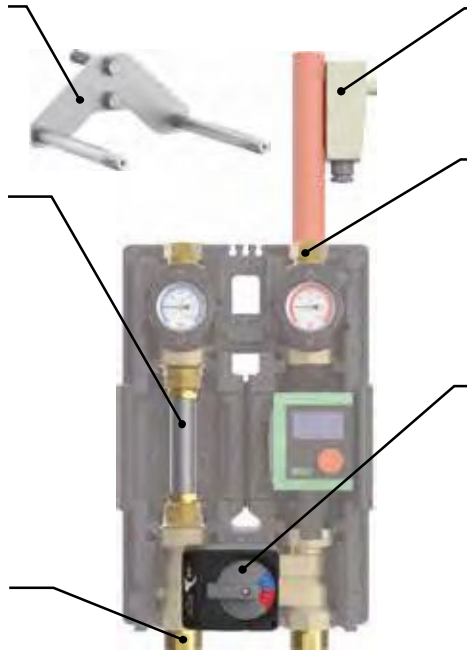
**705001** -

See page 100

### Wall bracket set DN 25

**3422SET** -

See page 99



### Flush and drain set DN 25

**3461** -

See page 99

### Modular distribution manifold - DN 25

**34123** 2-fold -

**34133** 3-fold -

**34143** 4-fold -

**34153** 5-fold -

**34163** 6-fold -

See page 94

### Coupling piece for overhead installation DN 25

**34241** -

See page 98

### Mounting plate DN 25

**3425** -

See page 98

### Wall bracket set for distribution manifolds

**34721** -

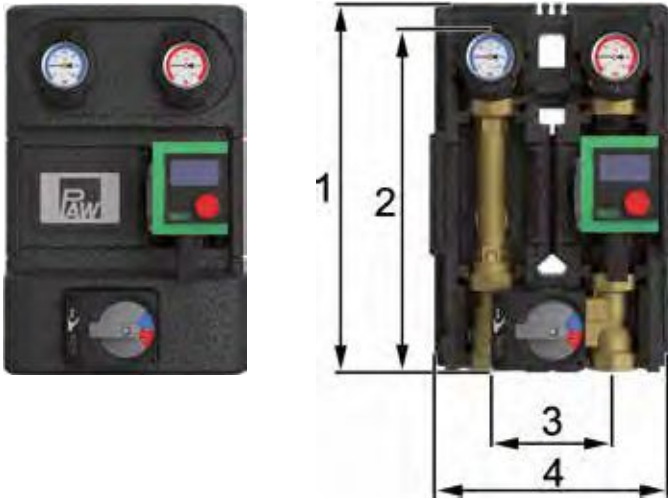
See page 99

### Wall bracket DN 25 - DN 32

**34722** for HeatBloC -

See page 99





### Application range

- Heating systems with buffer tank and solar heating support, control of radiant floor and panel heating systems

### Recommended range of application

- up to 32.5 kW
- 20 K up to 1400 l/h

### Operating data

Max. pressure	6 bars
Max. operating temperature	110 °C

### Technical data

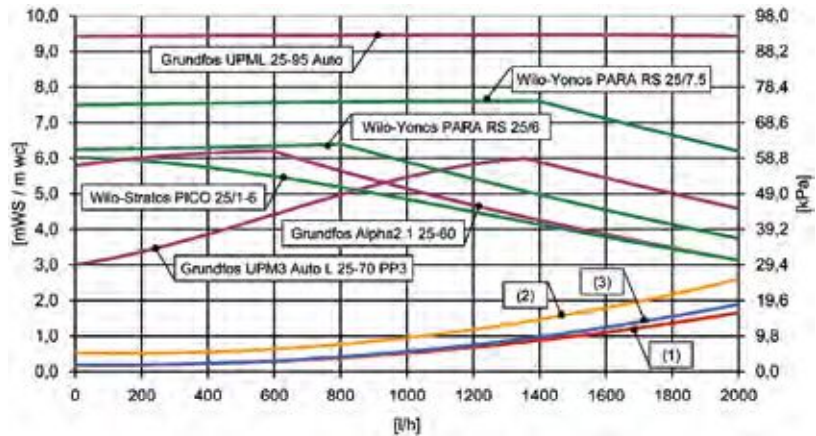
#### Dimensions

Nominal diameter	DN 25 (1")
Connection generator	1½" ext. thread, flat sealing
Connection consumer	1" internal thread
(1) Height	383 mm
(2) Installation length	340 mm
(3) Centre distance	125 mm
(4) Width	250 mm

#### Materials

Valves and fittings	Brass
Gaskets	EPDM
Insulation	EPP

### Differential pressure diagram



- (1) 100% return, Kvs value = 5.1
- (2) 100% low-temperature flow, Kvs value = 4.1
- (3) 100% high-temperature flow, Kvs value = 4.7

### HeatBloC® K35 - DN 25 (1")

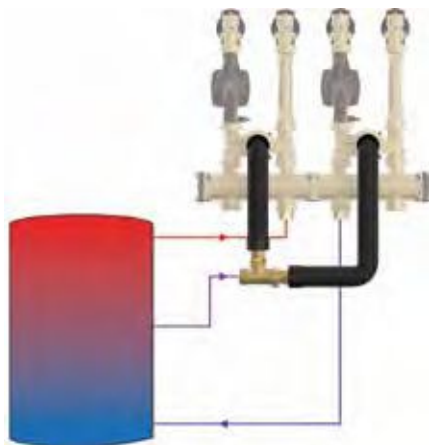


	EEl*	incl.	Item no.	€/ piece
Wilo-Stratos PICO 25/1-6	< 0.20	▲M	36093MWH6	-
Wilo-Yonos PARA RS 25/6-RKA	< 0.20	▲M	36093MWH6	-
Wilo-Yonos PARA RS 25/7.5-RKA	< 0.21	▲M	36093MWH8	-
Grundfos UPM3 Auto L 25-70 PP3	< 0.20	▲M	36093MGM6	-
Grundfos Alpha2.1 25-60	< 0.17	▲M	36093MGH6	-
Grundfos UPML 25-95 Auto	< 0.23	▲M	36093MGL9	-
for pumps with 1½" ext. thread x 180 mm		⊖M	36093M	-
Wilo-Stratos PICO 25/1-6	< 0.20	▲	36093WH6	-
Wilo-Yonos PARA RS 25/6-RKA	< 0.20	▲	36093WY6	-
Wilo-Yonos PARA RS 25/7.5-RKA	< 0.21	▲	36093WY8	-
Grundfos UPM3 Auto L 25-70 PP3	< 0.20	▲	36093GM6	-
Grundfos Alpha2.1 25-60	< 0.17	▲	36093GH6	-
Grundfos UPML 25-95 Auto	< 0.23	▲	36093GL9	-
for pumps with 1½" ext. thread x 180 mm		⊖	36093	-
Extra charge for assembly with flow on the left per HeatBloC (no discount possible)			999300	-



## Description of function

### Mounting equipment K35 - DN 25 (1")



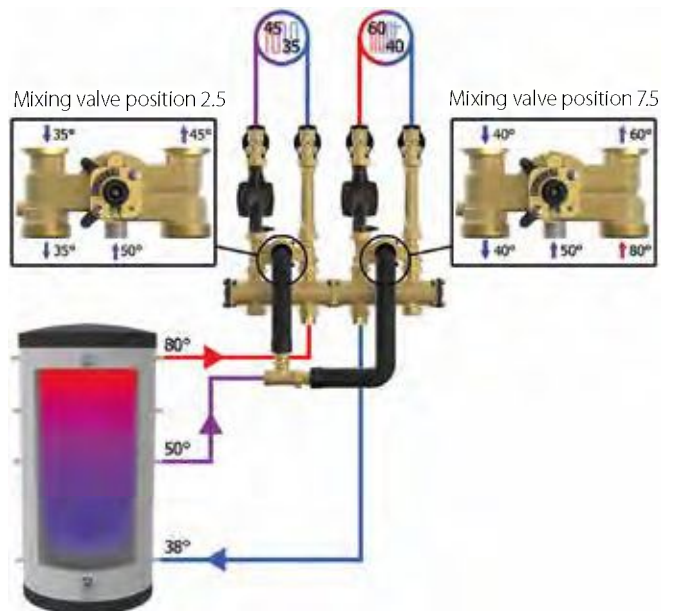
Mounting example with two HeatBloCs K35 with 3-temperature mixing valve and piping (rear view)




#### 3-temperature mixing valve

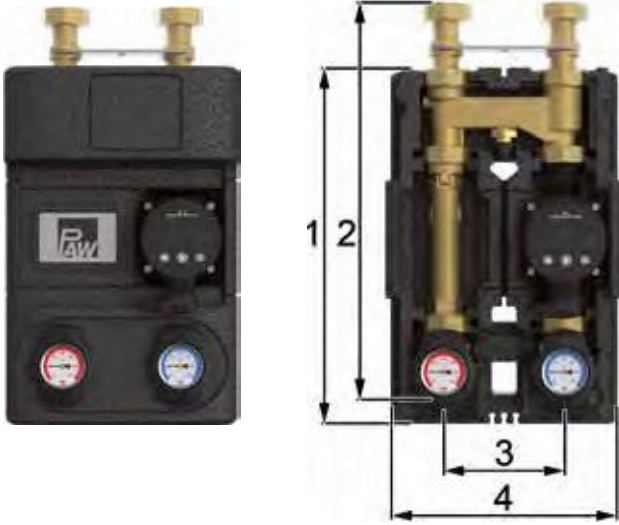
The 3-temperature mixing valve is used in combination with a buffer tank, which can be heated by either a solar thermal installation, a solid fuel boiler or a conventional boiler.

If the consumer only needs a low temperature level, such as radiant panel heating systems, the 3-temperature mixing valve first takes the the flow water from the intermediate part of the storage tank. When the temperature in this part is no longer sufficient, the hot water from the upper part of the tank is used.

By using two parts of the storage tank for two different flow temperatures, the energy from the buffer tank can be used more efficiently. The return temperatures are low and the stratification in the tank is maintained.



Mounting equipment	Item no.	€/ piece
 <p><b>Piping for one single HeatBloC K35</b></p> <p>Pipe set DN 25 to connect a mixing valve to a HeatBloC K35</p>	36092KS4	-
 <p><b>Piping for two HeatBloCs K35</b></p> <p>Pipe set DN 25 to connect the connections on the backside, for the assembly of two HeatBloCs K35 on one distribution manifold.</p>	36092KS2	-
 <p><b>Extension pipe set for three HeatBloCs K35</b></p> <p>For installation of three HeatBloCs K35 the extension pipe set DN 25 is additionally required to extend 36092KS2.</p>	36092KS3	-



### Application range

- return flow temperature maintenance for solid fuel boilers, wood firing and stove heating systems

### Recommended range of application

- up to 40 kW
- 20 Kup to 1725 l/h

### Operating data

Max. pressure	6 bars
Max. operating temperature	110 °C
Kvs value	5.9

### Technical data

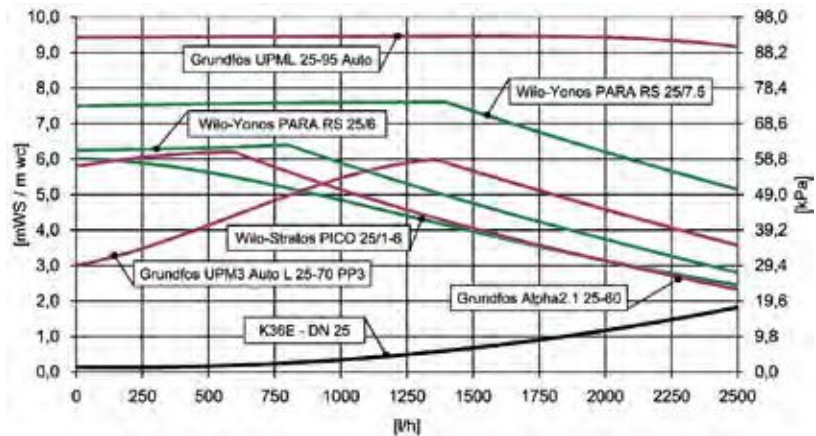
#### Dimensions

Nominal diameter	DN 25 (1")
Connection generator	1" internal thread
Connection consumer	1½" internal thread
(1) Height	383 mm
(2) Installation length	408 mm
(3) Centre distance	125 mm
(4) Width	250 mm

#### Materials

Valves and fittings	Brass
Gaskets	EPDM
Insulation	EPP

### Differential pressure diagram

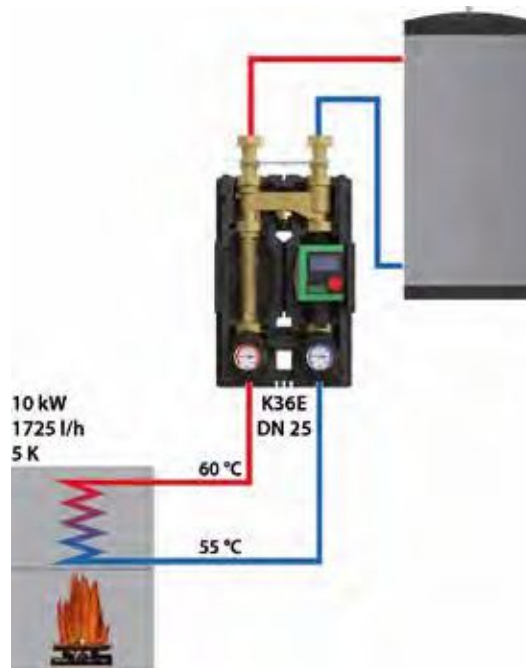


### HeatBloC® K36E - DN 25 (1")



	Opening temperature	EEl*	incl.	Item no.	€/ piece
<b>Wilo-Stratos PICO 25/1-6</b>	45 °C	< 0.20	▲	<b>360343WH6</b>	-
<b>Wilo-Yonos PARA RS 25/6-RKA</b>	45 °C	< 0.20	▲	<b>360343WY6</b>	-
<b>Wilo-Yonos PARA RS 25/7.5-RKA</b>	45 °C	< 0.21	▲	<b>360343WY8</b>	-
<b>Grundfos UPML 25-95 Auto</b>	45 °C	< 0.23	▲	<b>360343GL9</b>	-
<b>Grundfos Alpha2.1 25-60</b>	45 °C	< 0.17	▲	<b>360343GH6</b>	-
<b>Grundfos UPM3 Auto L 25-70 PP3</b>	45 °C	< 0.20	▲	<b>360343GM6</b>	-
<b>for pumps with 1½" ext. thread x 180 mm</b>	45 °C		⊖	<b>360343</b>	-
<b>Wilo-Stratos PICO 25/1-6</b>	60 °C	< 0.20	▲	<b>360373WH6</b>	-
<b>Wilo-Yonos PARA RS 25/6-RKA</b>	60 °C	< 0.20	▲	<b>360373WY6</b>	-
<b>Wilo-Yonos PARA RS 25/7.5-RKA</b>	60 °C	< 0.21	▲	<b>360373WY8</b>	-
<b>Grundfos UPML 25-95 Auto</b>	60 °C	< 0.23	▲	<b>360373GL9</b>	-
<b>Grundfos Alpha2.1 25-60</b>	60 °C	< 0.17	▲	<b>360373GH6</b>	-
<b>Grundfos UPM3 Auto L 25-70 PP3</b>	60 °C	< 0.20	▲	<b>360373GM6</b>	-
<b>for pumps with 1½" ext. thread x 180 mm</b>	60 °C		⊖	<b>360373</b>	-

**The K36E should always be used with a buffer tank, if not, a hydraulic separator is mandatory.**



### Thermal control valve with bypass

#### Functioning:

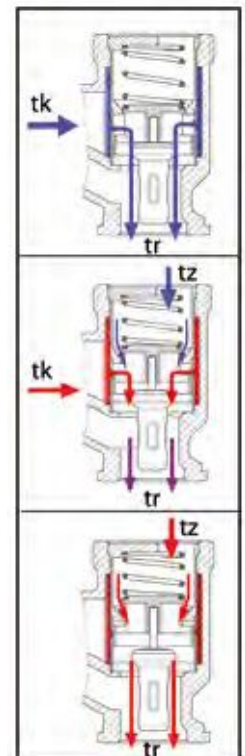
The thermal valve shuts off the connection to the consumers, as long as the water in the boiler circuit is colder than the opening temperature of the thermal control valve. The pump in the K36E circulates the water in the boiler circuit by means of the automatic bypass which is completely open.

When the water in the boiler circuit has obtained the opening temperature (+/- 3 K) of the thermal control valve, the valve opens the connection from/to the consumers. The bypass shuts off to the same extent as the connection to the consumers is opened. The control valve opens the return line from the consumers and thus enables the water to circulate in the consumer circuit. The cold water from the consumer return line is mixed in the control valve with the hot water from the bypass. Depending on the temperature and the flow rate of the water from the return line, the thermal control valve shuts off or opens the line to the consumers. Thus the return line which leads to the boiler always remains at a certain temperature level.

With rising temperature in the flow line of the boiler or with rising temperature from the return line of the consumers, the thermal control valve opens the connection to the consumers. The temperature of the return line of the boiler remains nearly constant (+/- 3 K).

#### Please note:

When the boiler output is controlled by the boiler temperature, the boiler must heat up 20 K above the opening temperature of the K36E. Otherwise there will not be enough power available for the consumers (the boiler output may be reduced before the thermal control valve opens completely).



### Mounting equipment



#### Wall bracket for HeatBloC DN 25 (1") - DN 32 (1 1/4")

Parts: Wall bracket (steel, zined), mounting equipment  
 DN 25: Wall distance possible = 150 mm  
 DN 32: Wall distance possible = 180 mm  
**Not** required for installation with a PAW distribution manifold.

Item no.

34722

€/ piece

-

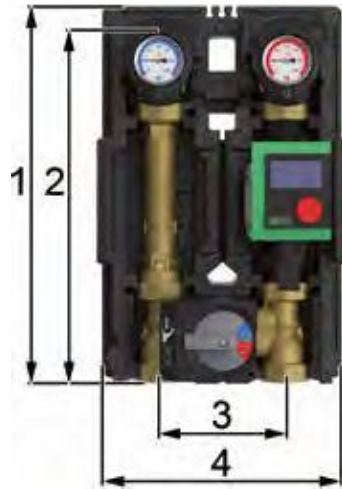


#### Connection set DN 25 (1")

2 fittings made of brass 1 1/2" external thread x 1" internal thread, for connection of pipes with 1" external thread

3432

-



### Application range

- for heating systems controlled by a mixing valve in combination with a boiler temperature maintenance

### Recommended range of application

- up to 33 kW
- 20 Kup to 1400 l/h

### Operating data

Max. pressure	6 bars
Max. operating temperature	110 °C
Kvs value	4.1

### Technical data

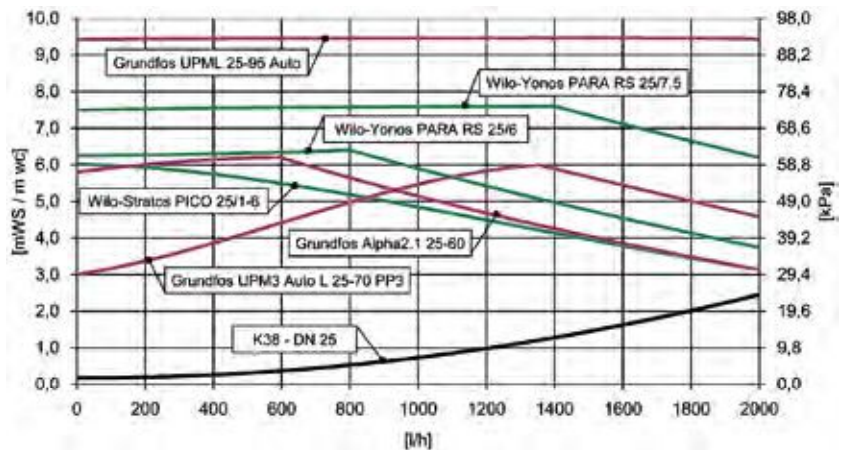
#### Dimensions

Nominal diameter	DN 25 (1")
Connection generator	1½" external thread, flat sealing
Connection consumer	1" internal thread
(1) Height	383 mm
(2) Installation length	340 mm
(3) Centre distance	125 mm
(4) Width	250 mm

#### Materials

Valves and fittings	Brass
Gaskets	EPDM
Insulation	EPP

### Differential pressure diagram



### HeatBloC® K38 - DN 25 (1")



	EEI*	incl.	Item no.	€/ piece
Wilo-Stratos PICO 25/1-6	< 0.20	▲M	36083MWH6	-
Wilo-Yonos PARA RS 25/6-RKA	< 0.20	▲M	36083MWW6	-
Wilo-Yonos PARA RS 25/7.5-RKA	< 0.21	▲M	36083MWW8	-
Grundfos Alpha2.1 25-60	< 0.17	▲M	36083MGH6	-
Grundfos UPM3 Auto L 25-70 PP3	< 0.20	▲M	36083MGM6	-
Grundfos UPML 25-95 Auto	< 0.23	▲M	36083MGL9	-
for pumps with 1½" ext. thread x 180 mm		⊖M	36083M	-
Wilo-Stratos PICO 25/1-6	< 0.20	▲	36083WH6	-
Wilo-Yonos PARA RS 25/6-RKA	< 0.20	▲	36083WY6	-
Wilo-Yonos PARA RS 25/7.5-RKA	< 0.21	▲	36083WY8	-
Grundfos Alpha2.1 25-60	< 0.17	▲	36083GH6	-
Grundfos UPM3 Auto L 25-70 PP3	< 0.20	▲	36083GM6	-
Grundfos UPML 25-95 Auto	< 0.23	▲	36083GL9	-
for pumps with 1½" ext. thread x 180 mm		⊖	36083	-



### Wall bracket DN 25 - DN 32

**34723** -

See page 99



### Cutting-ring compression fittings 1"

**562915** d = 15 mm -

**562918** d = 18 mm -

**562922** d = 22 mm -

See page 99

### Fitting for heat flowmeter DN 25 for mixed HeatBloCs

**433446** -

See page 98



### Wall bracket set DN 25

**3422SET** -

See page 99

### Connection set DN 25

**3431** -

See page 99

### Actuator SR5

**705001** -

See page 100

### Flush and drain set DN 25

**3461** -

See page 99



### Non-return valve DN 25

**34011** -

See page 99

### Coupling piece for overhead installation DN 25

**34241** -

See page 98

### Modular distribution manifold - DN 25

**34123** 2-fold -

**34133** 3-fold -

**34143** 4-fold -

**34153** 5-fold -

**34163** 6-fold -

See page 94

### Mounting plate DN 25

**3425** -

See page 98

### Wall bracket DN 25 - DN 32

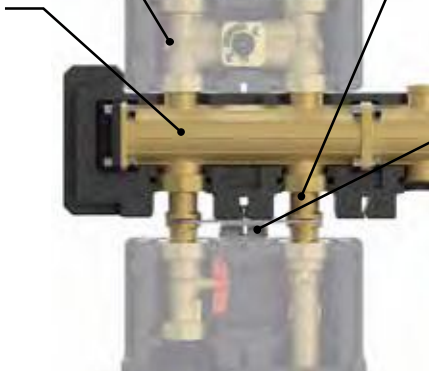
**34722** for HeatBloC -

See page 99

### Wall bracket set for distribution manifolds

**34721** -

See page 99





### Application range

Extension of an already existing PAW heating circuit from the current series 2017, to a HeatBloC MC for the automatic, dynamic balancing of the distribution manifold

### Scope of delivery

- controller MCom
- 2 x temperature sensor Pt1000
- differential pressure sensor DPS
- high-efficiency pump
- PAW actuator SR10 24/ST - 10 Nm 24 V

### Controller MCom

- autarkic controller for an automatic, dynamic balancing of the distribution manifold through an electronic regulation of the differential pressure, 0-0.6 bars
- display of the flow rate values of the pump (Grundfos)
- Modbus for an optional integration in a smart home system with an external nominal value indication

### Temperature sensor Pt1000

- sensor for temperature measurement in the return
- measuring range: -20 °C ... +150 °C
- red mark for a clear assignment of the sensor

### Temperature sensor Pt1000

- sensor for temperature measurement in the return
- measuring range: -20 °C ... +150 °C
- blue mark for a clear assignment of the sensor

### Differential pressure sensor DPS

- measuring range: 0-0.6 bars
- incl. brass fitting for the sensor and 2 x 1/2" union nut
- with connection cable

### Actuator

- 10 Nm / 24V/50 Hz
- constant control voltage
- manual operation possible
- controlled by MCom
- easy mounting through snap-in assembly on the PAW mixing valve



### High-efficiency pump

- fitted with 2 m cable
- with serial number
- ErP and EuP READY



DN 25

### Technical data

#### Operating data

Max. operating temperature 110 °C  
Max. pressure 6 bars

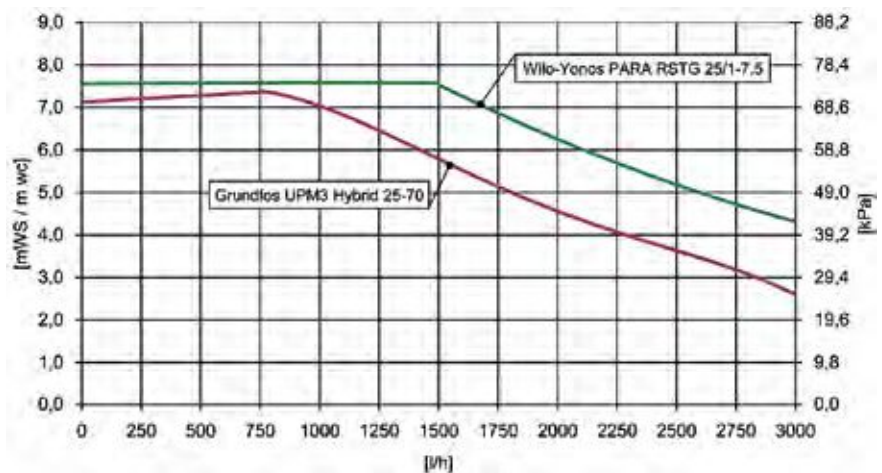
#### Dimensions

Height (controller) 200 mm  
Width (controller) 250 mm  
Centre distance 125 mm

#### Materials

Valves and fittings Brass  
Gaskets AFM34  
Insulation EPP

### Differential pressure diagram



### Extension set MCom - DN 25 (1")



**Grundfos UPM3 Hybrid 25-70**

EEI\*

< 0.20

Item no.

**139925MGU7**

€/ piece

-

**Wilo-Yonos PARA RSTG 25/7.5**

< 0.21

**139925MWG8**

-



### Application range

Extension of an already existing PAW heating circuit from the current series 2017, to a HeatBloC MC for the automatic, dynamic balancing of the distribution manifold

### Scope of delivery

- controller MCom
- 2 x temperature sensor Pt1000
- differential pressure sensor DPS
- high-efficiency pump

### Temperature sensor Pt1000

- sensor for temperature measurement in the return
- measuring range: -20 °C ... +150 °C
- blue mark for a clear assignment of the sensor

### Differential pressure sensor DPS

- measuring range: 0-0.6 bars
- incl. brass fitting for the sensor and 2 x 1/2" union nut
- with connection cable

### Controller MCom

- autarkic controller for an automatic, dynamic balancing of the distribution manifold through an electronic regulation of the differential pressure, 0-0.6 bars
- display of the flow rate values of the pump (Grundfos)
- Modbus for an optional integration in a smart home system with an external nominal value indication

### Temperature sensor Pt1000

- sensor for temperature measurement in the return
- measuring range: -20 °C ... +150 °C
- red mark for a clear assignment of the sensor

### High-efficiency pump

- fitted with 2 m cable
- with serial number
- ErP and EUP READY



DN 25

### Technical data

#### Operating data

Max. operating temperature 110 °C  
Max. pressure 6 bars

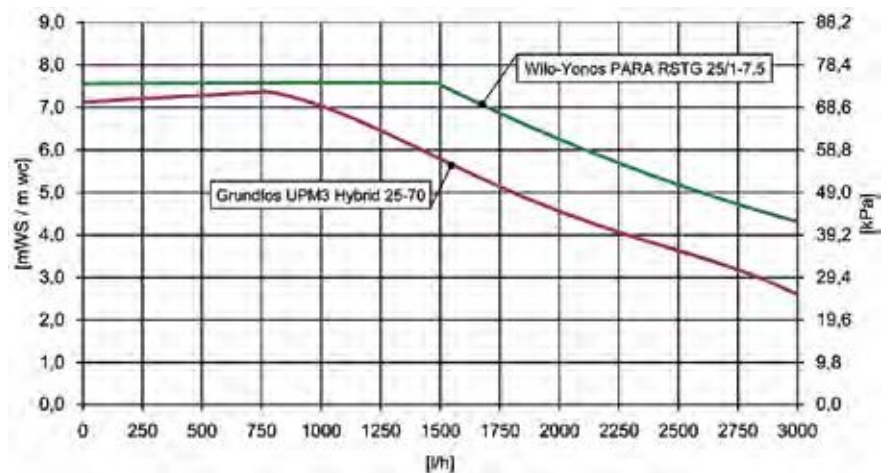
#### Dimensions

Height (controller) 200 mm  
Width (controller) 250 mm  
Centre distance 125 mm

#### Materials

Valves and fittings Brass  
Gaskets AFM34  
Insulation EPP

### Differential pressure diagram



Extension set MCom - DN 25 (1")	EEl*	Item no.	€ / piece
Grundfos UPM3 Hybrid 25-70	< 0.20	139925GU7	-
Wilo-Yonos PARA RSTG 25/7.5	< 0.21	139925WG8	-





### Application range

- Separation of the boiler circuit and the consumer circuit:
- for radiant panel heating systems with plastic pipes that are permeable to diffusion
- for the protection of new boilers in older heating installations

### Recommended application range

- depending on the heat exchanger and the pump used
- in the case of a pressure loss of 1.5 m wc up to 25 kW
- 10 K up to 2150 l/h

### Operating data

Maximum pressure	6 bars
Maximum operating temperature	110 °C
Kvs value (16 plates heat exchanger)	3.3
Kvs value (30 plates heat exchanger)	4.4
Kvs value (40 plates heat exchanger)	4.9

### Equipment

Pressure relief valve	3 bars, 50 kW
Pressure gauge	0-4 bars
Tank connection coupling	Stainless steel corrugated hose: l = 700 mm Wall bracket: for tanks with a maximum diameter of 430 mm
Fill and drain valve	3/4" external thread x 3/8" external thread- self-sealing- with counter nut and hose connector
Immersion sleeve	for sensor: d=5.5 mm
Vent plug (manual vent valve)	3/4" external thread, self-sealing

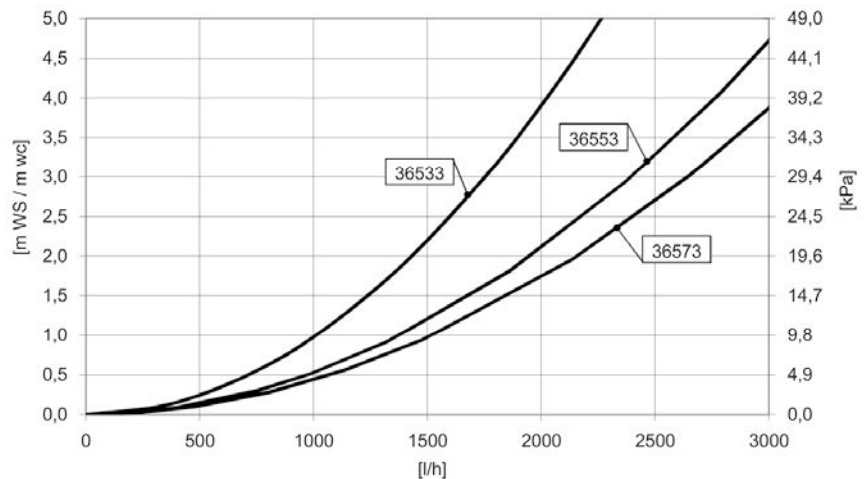
## Technical data Differential pressure diagram

### Dimensions

Nominal diameter	DN 25 (1")
Connection generator	1" ext. thread / 1 1/2" int. thread (nut)
Connection consumer	1" PAW flange
Connection for expansion tank	3/4"
(1) Height	176 mm
(2) Installation length	176 mm
(3) Centre distance	125 mm
(4) Width	380 mm

### Materials

Valves and fittings	Brass
Gaskets	EPDM
Insulation	EPP
Heat exchanger	Solder: Copper Plates + connecting pieces: Stainless steel



System separation DN 25 (1")	Heat exchanger	Range of performance (in case of a pressure loss of 1.5 m wc)	Item no.	€ / piece
	16 plates	up to 20 kW at 60- 50 °C prim. / 35-45 °C sec.	<b>36533</b>	-
	30 plates	up to 23 kW at 60- 50 °C prim. / 35-45 °C sec.	<b>36553</b>	-
	40 plates	up to 25 kW at 60- 50 °C prim. / 35-45 °C sec.	<b>36573</b>	-

### Mounting equipment

	<b>Thread connection for PAW flange DN 25 (1")</b> with union nut, fitting and gasket	<b>2151</b>	-
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	<b>Application 1:</b> Extension of already existing heating circuits / Installations with a temperature control on the primary side (mixed heating circuit with controlled flow temperature or modulating boiler with boiler circuit pump) Recommended assembly:				
	<b>System separation + sec.: HeatBloC K31 DN 25 incl. pump (see page &lt;?&gt;)</b>			<b>EEl*</b>	<b>Range of performance**</b>
	36533	36013WH6	Wilo-Stratos PICO 25/1-6	≤ 0.20	1430 l/h = 16.6 kW
	36553				1660 l/h = 19.3 kW
	36573				1750 l/h = 20.3 kW
	36533	36013WY6	Wilo-Yonos PARA RS 25/6-RKA	≤ 0.20	1580 l/h = 18.3 kW
36553	1830 l/h = 21.2 kW				
36573	1930 l/h = 22.4 kW				
36533	36013GH6	Grundfos Alpha2.1 25-60	≤ 0.17	1480 l/h = 17.2 kW	
36553				1710 l/h = 19.9 kW	
36573				1790 l/h = 20.8 kW	
36533	36013GM6	Grundfos UPM3 Auto L 25-70 PP3	≤ 0.20	1720 l/h = 20.0 kW	
36553				2020 l/h = 23.5 kW	
36573				2120 l/h = 24.6 kW	
** At a primary temperature of 60 - 50 °C, a secondary temperature of 35 - 45 °C and a secondary residual head of 1.5 m wc					
	<b>Application 2:</b> Extension of already existing heating circuits / Installations with a pump on the primary side and high flow temperatures (bypass operation in addition to the radiator circuits or operation with solid fuel boiler and boiler circuit pump). Recommended assembly:				
	<b>System separation + sec.: HeatBloC K34 DN 25 incl. pump and actuator (see page &lt;?&gt;)</b>			<b>EEl*</b>	<b>Range of performance**</b>
	36533	36063MWH6	Wilo-Stratos PICO 25/1-6	≤ 0.20	1400 l/h = 16.3 kW
	36553				1610 l/h = 18.7 kW
	36573				1690 l/h = 19.6 kW
	36533	36063MWY6	Wilo-Yonos PARA RS 25/6-RKA	≤ 0.20	1540 l/h = 17.9 kW
36553	1780 l/h = 20.7 kW				
36573	1860 l/h = 21.6 kW				
36533	36063MGH6	Grundfos Alpha2.1 25-60	≤ 0.17	1450 l/h = 16.8 kW	
36553				1650 l/h = 19.2 kW	
36573				1730 l/h = 20.1 kW	
36533	36063MGM6	Grundfos UPM3 Auto L 25-70 PP3	≤ 0.20	1690 l/h = 19.6 kW	
36553				1950 l/h = 22.6 kW	
36573				2030 l/h = 23.6 kW	
** At a primary temperature of 60 - 50 °C, a secondary temperature of 35 - 45 °C and a secondary residual head of 1.5 m wc					
 <p><b>The assembly must be carried out on-site!</b></p>	<b>Application 3:</b> Complete separation system with mixing valve control on the primary side. Ensures low return temperatures of the boiler and allows the operation of several parallel heating circuits, f. ex. on a distribution manifold Recommended assembly:				
	<b>System separation + prim.: HeatBloC K32 DN 25 incl. pump and actuator (see page &lt;?&gt;) sec.: HeatBloC K31 DN 25 incl. pump (see page &lt;?&gt;)</b>			<b>EEl*</b>	<b>Range of performance**</b>
	36533	prim. 36053MWH6 sec. 36013WH6	Wilo-Stratos PICO 25/1-6	≤ 0.20	1380 l/h = 16.0 kW
	36553				1590 l/h = 18.5 kW
	36573				1660 l/h = 19.3 kW
	36533	prim. 36053MWY6 sec. 36013WY6	Wilo-Yonos PARA RS 25/6-RKA	≤ 0.20	1540 l/h = 17.9 kW
36553	1750 l/h = 20.3 kW				
36573	1830 l/h = 21.2 kW				
36533	prim. 36053MGH6 sec. 36013GH6	Grundfos Alpha2.1 25-60	≤ 0.17	1440 l/h = 16.7 kW	
36553				1630 l/h = 18.9 kW	
36573				1710 l/h = 19.9 kW	
36533	prim. 36053MGM6 sec. 36013GM6	Grundfos UPM3 Auto L 25-70 PP3	≤ 0.20	1670 l/h = 19.4 kW	
36553				1930 l/h = 22.4 kW	
36573				2000 l/h = 23.2 kW	
** At a primary temperature of 60 - 50 °C, a secondary temperature of 35 - 45 °C and a secondary residual head of 1.5 m wc					



### Application range

- modular design
- for outputs up to 80 kW (for each boiler connection) at a temperature difference of 20 K

### Operating data

Max. pressure	6 bars
Max. operating temperature	110 °C
Kvs value 2-fold	16.0
Kvs value 3-fold	18.0
Kvs value 4-fold	18.5
Kvs value 5-fold	19.0
Kvs value 6-fold	19.0

DN 25

### Technical data

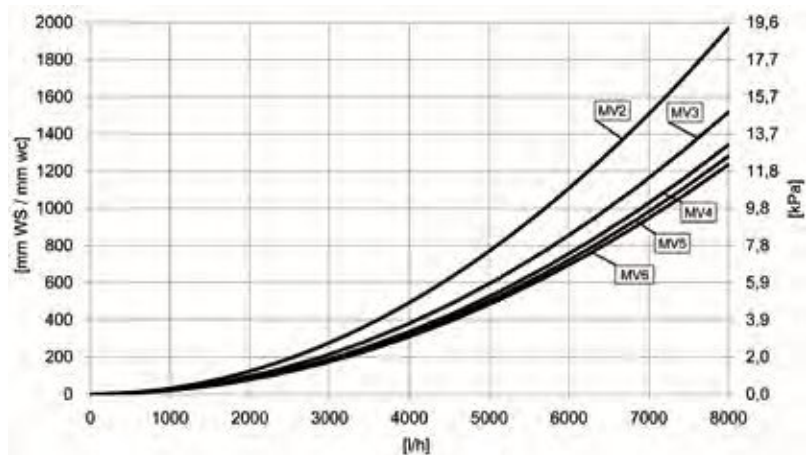
#### Dimensions

Nominal diameter	DN 25 (1")
Connection generator	1½" external thread flat sealing (bottom), 2 x for boiler connection, others plugged
Connection consumer	1" PAW flange for nut 1½" (top)
Installation height	128 mm
Height insulation	137 mm
Centre distance	125 mm

#### Materials

Valves and fittings	Brass/Polyamide
Gaskets	EPDM
Insulation	EPP

### Differential pressure diagram



Modular distribution manifold - DN 25 (1")		Item no.	€/ piece
	<b>2-fold</b> Number of connections for HeatBloCs = 3 Width = 625 mm	34123	-
	<b>3-fold</b> Number of connections for HeatBloCs = 5 Width = 875 mm	34133	-
	<b>4-fold</b> Number of connections for HeatBloCs = 7 Width = 1125 mm	34143	-
	<b>5-fold</b> Number of connections for HeatBloCs = 9 Width = 1375 mm	34153	-
	<b>6-fold</b> Number of connections for HeatBloCs = 11 Width = 1625 mm	34163	-

### Set extension pieces DN 25 - DN 32

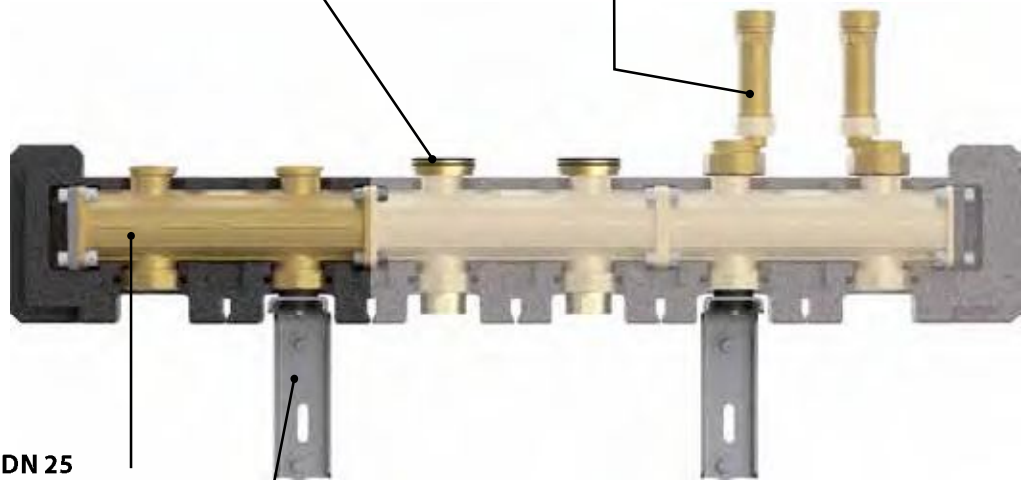
**3436** -

See page 98

### Reducer set DN 25 - DN 20

**34351** -

See page 98



### Extension module DN 25

**34113** -

For the extension of already existing HeatBloCs  
The installation may only be made by qualified experts!

### Wall bracket set for distribution manifolds

**34721** -

See page 99

### Coupling piece for overhead installation DN 25 (1")

**34241** -

See page 98

### Mounting plate DN 25 (1")

**3425** -

See page 98



### Safety group DN 25 (1") up to 50 kW

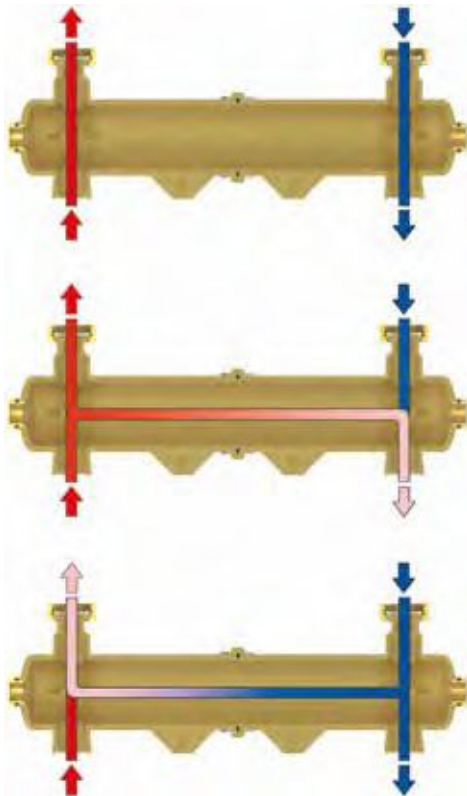
**52543** -

See page 100

### MCom communication set

**1398730** -

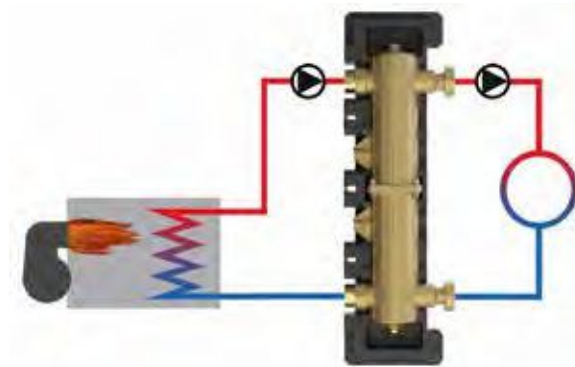




### Description of function

Hydraulic separators are used when there are one or more heat generating circuits/primary circuits with pump and one or more consumer/secondary circuits with distribution pump in one system. Due to the working conditions in such systems, pumps affect each other and changes in throughput and delivery height can occur. The hydraulic separator causes a neutralization of the connected circuits. Thus, the primary and secondary circuit can work independently. The flow in one circuit does not cause a flow in the other circuit when the pressure drop in the hydraulic separator is insignificant.

When a hydraulic separator is used, each circuit (the primary and the secondary one) must be equipped with a pump. Thus, a heat generating circuit/primary circuit can be provided with constant throughput and a consumer circuit/secondary circuit can be provided with variable flow. These are the typical functioning conditions for modern heating and air conditioning systems. The figures on the left side show three possible conditions of hydraulic stability.



## Hydraulic separators - DN 25 (1")

Item no.

€/ piece



**up to 3500 l/h**

**344213**

-

Completely made of brass, completely insulated with EPP insulation, for the installation below a modular distribution manifold DN 25 or separately on the wall (vertically or horizontally).

Connections:

1" PAW flange for nut 1 1/2" (top)

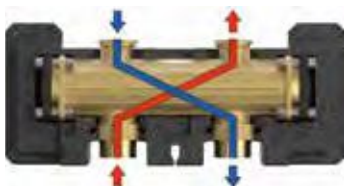
1 1/2" external thread / 1" internal thread, flat-sealing with threaded connection

2 x 1/2" internal thread for immersion sleeve and fill and drain valve

Width = 625 mm

Installation height = 180 mm

Centre distance = 375 mm



**up to 1600 l/h**

**344203**

-

Completely made of brass, with separate flow and return line, for the installation below a HeatBloC DN 25. With EPP insulation.

Can also be installed below a modular distribution manifold DN 25 (with mounting plate item no. 3425)

or separately (in the pipe). When being installed separately, two additional connections sets (item no. 2151) are necessary.

Connections:

1" PAW flange for nut 1 1/2" (top)

1 1/2" external thread, flat-sealing with threaded connection

Width = 375 mm

Installation height = 128 mm

Centre distance = 125 mm



### Immersion sleeves 1/2" ext. thread

**566002** 6 mm x 60 mm -

See page 99

### Wall bracket set for distribution manifolds

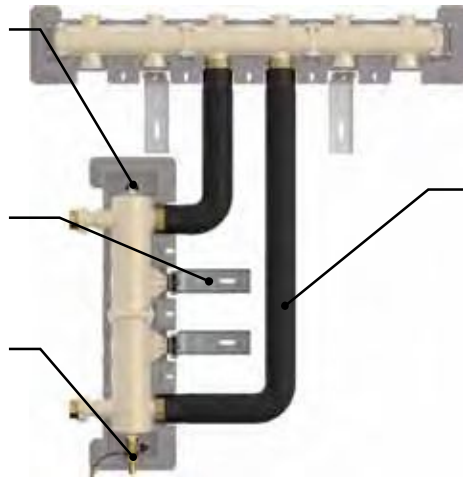
**34721** -

See page 99

### Fill and drain valve

**2260** -

See page 183



### Piping group DN 25

**3442KS1** -

See page 100

### Mounting plate DN 25

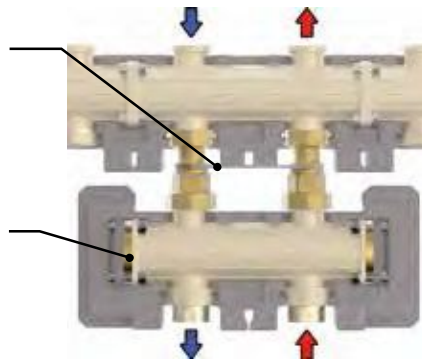
**3425** -

See page 98

### Conversion kit for low-loss header DN 25

**34431** -

See page 100



### Sealing for nut

**2157** 1" -

See page 177

### Union nut

**2155** 1 1/2" int. thread -

See page 177

### Low-loss header MVW DN 25 (1")

for boilers with integrated pump

By means of the conversion kit (item no. 34431), the modular distribution manifolds get a bypass which connects the flow and return line without causing any resistance (low-loss header).

It must be considered that the pump of the boiler circuit must deliver a higher flow rate than the consumer pumps need in total. Otherwise, unwanted circulations occur on the right or left end of the low-loss header. In that case a hydraulic separator (item no. 344203 or 344213) must be installed below a distribution manifold.

### Please note:

**When you plan the system you must already check whether a low-loss header can be used. In combination with central heating boilers, hydraulic separators must be installed below / upstream of a distribution manifold as the boiler delivers a flow rate with a high temperature difference (leads to unwanted circulation in low-loss headers).**

### Low-loss header MVW DN 25 (1")

Item no.

€ / piece



**2-fold**  
Number of connections for HeatBloCs = 3  
Width = 580 mm

**344223** -

**3-fold**  
Number of connections for HeatBloCs = 5  
Width = 830 mm

**344233** -











Illustration		Item no.	€ / piece
	<p><b>Fitting for heat flowmeter (direct HeatBloCs) DN 25</b></p> <p>The fitting can be used for all heat flowmeters (WMZ) with the connecting dimensions 3/4" x 110 mm and 1" x 130 mm. For heat flowmeters with other dimensions, the adapter set must be obtained by the customer. In the delivery included are the required flat-sealing fitting pieces, thus enabling to install additionally a heat flowmeter.</p> <p>The fitting is installed into the return line of the heating circuit. The sensors can be installed in the 1/2" sleeves of the thermometer ball valves (extensions might be necessary) or in connections of the customer. The immersion sleeve is not included in delivery. When the heat flowmeter is installed the front insulation may be adapted to the shape of the case (simply by cutting out). As the insulation is closed, it is recommended to install the heat flowmeter separately.</p> <p>The heat flowmeter is not included in delivery!</p> <p>Fitting for direct HeatBloCs DN 25 without mixing valve Consisting of: flat-sealing adapter set, 1 adapter pipe, seals, 1 pump ball valve with check valve and union nut.</p>	<b>433445</b>	-
	<p><b>Fitting for heat flowmeter (mixed HeatBloCs) DN 25</b></p> <p>Fitting for HeatBloCs DN 25 with 3- or 4-wax mixing valve Consisting of: flat-sealing adapter set, 1 adapter pipe, seals, 1 non-return valve for the return of the mixing valve</p>	<b>433446</b>	-
	<p><b>Adapter pipe DN 25</b></p> <p>2 x 1 1/2" external thread, flat sealing, length 180 mm, when an external circulation pump is used, to bridge the pump connection.</p>	<b>3447</b>	-
	<p><b>Reducer set DN 25 - DN 20</b></p> <p>for installing DN 20 HeatBloCs on DN 25 distribution manifolds, adapter set 1 1/2" external thread, flat sealing with nuts on 3/4" PAW flange, reduction of the centre distance from 125 mm to 90 mm, distance pipe 1" internal thread x 1" external thread, flat sealing, brass, with sealings. The required union nuts 1" internal thread are dismantled from the HeatBloC.</p>	<b>34351</b>	-
	<p><b>Set extension pieces DN 25 - DN 32</b></p> <p>for the assembly of HeatBloCs DN 32 on distribution manifolds DN 25, set of distance rings for union nut 2" internal thread on 1" PAW flange, made of brass, with special sealing, flat sealing</p>	<b>3436</b>	-
	<p><b>Coupling piece for overhead installation DN 25</b></p> <p>Coupling piece for overhead installation with flat sealings of a HeatBloC below a distribution manifold.</p> <p>Please note: When you use wall brackets, an additional mounting plate is necessary for installing a MV2 2-fold distribution manifold.</p>	<b>34241</b>	-
	<p><b>Mounting plate DN 25</b></p> <p>Parts: Mounting plate, 2 gaskets, 2 x nut 1 1/2", 2 x housing of coupling F 1" x 1 1/2" ext. thread for installation with flat sealings below a modular distribution manifold and for attaching wall brackets</p>	<b>3425</b>	-

Illustration		Item no.	€ / piece
	<b>Wall bracket DN 25 - DN 32</b> Zinc plated wall bracket for the wall assembly of a HeatBloC. Easy snap-in assembly of the HeatBloC on the wall bracket.	<b>34723</b>	-
	<b>Wall bracket for HeatBloC DN 25 - DN 32</b> Parts: Wall bracket (steel, zinc plated), mounting equipment DN 25: Wall distance possible = 150 mm DN 32: Wall distance possible = 180 mm <b>Not</b> required for installation with a PAW distribution manifold.	<b>34722</b>	-
	<b>Wall bracket set for distribution manifolds</b> Parts: 2 wall brackets as a set, steel, zinc plated, mounting equipment DN 25: Wall distance possible: 150 mm DN 32: Wall distance possible: 180 mm From 5-fold modular distribution manifolds on, we recommend to use 2 wall bracket sets.	<b>34721</b>	-
	<b>Wall bracket set DN 25</b> Parts: 2 x nut 1 1/2", mounting plate, wall bracket Wall distance possible: 87.5-162.5 mm	<b>3422SET</b>	-
	<b>Immersion sleeve 6 mm x 30 mm</b>	<b>566001</b>	-
	<b>Immersion sleeve 6 mm x 60 mm</b>	<b>566002</b>	-
	<b>Immersion sleeve 6 mm x 60 mm</b>	<b>5660021</b>	-
	<b>Immersion sleeve 6 mm x 100 mm</b>	<b>566003</b>	-
	<b>Immersion sleeve 6 mm x 150 mm</b>	<b>566004</b>	-
	for the installation of the temperature sensors (d = 6 mm) in the storage tank, in the collector and for the installation of the hydraulic separator.  Please note: The immersion sleeves do not fit into the ball valves of the heating circuits of the current catalogue 01/2017!  566001: self-sealing, with o-ring, bare brass, for sensor with a depth of 30 mm 566002: standard, chromed brass, for sensor with a depth of 60 mm 5660021: standard, chromed brass, with valve extension (25 mm), for sensor with a depth of 60 mm 566003: standard, chromed copper, for sensor with a depth of 100 mm 566004: standard, chromed copper, for sensor with a depth of 150 mm		
	<b>Cutting-ring compression fitting DN 25 d = 15 mm</b>	<b>562915</b>	-
	<b>Cutting-ring compression fitting DN 25 d = 18 mm</b>	<b>562918</b>	-
	<b>Cutting-ring compression fitting DN 25 d = 22 mm</b>	<b>562922</b>	-
	1" external thread, self-sealing with o-ring, with support sleeve, suitable for soft copper pipes. For temperatures up to 150 °C.		
	<b>Connection set DN 25 - 2x 1" int. thread</b> Consisting of 2 insertion pieces for connection of pipes with 1" external thread below HeatBloCs or for the use of cutting-ring compression fittings.	<b>3431</b>	-
	<b>Flush and drain set DN 25</b> 2 x counter-T-pieces with fill and drain valve, each equipped with an extension piece, permits to flush and drain individual HeatBloCs.	<b>3461</b>	-
	<b>Non-return valve DN 25</b> to be inserted into the PAW mixing valve. Prevents unwanted circulation for example when various mixing valves are connected to one distribution manifold. The non-return valve can simply be inserted into the mixing valve. For HeatBloC K38 - DN 25	<b>34011</b>	-

Illustration		Item no.	€ / piece
	<p><b>Non-return valve for the mixing valve return DN 25</b></p> <p>to be inserted into the PAW mixing valve. Prevents unwanted circulation for example when various mixing valves are connected to one distribution manifold. The non-return valve can simply be inserted into the mixing valve. Not suitable for HeatBloC K38 - DN 25.</p>	<b>340112</b>	-
	<p><b>Piping group DN 25</b></p> <p>Piping group for hydraulic separator, consisting of 2 pipe sections, union nuts and gaskets, for connection of a vertically mounted hydraulic separator below a PAW distribution manifold. Flat-sealing connection, completely insulated, outlet on the right or on the left.</p>	<b>3442KS1</b>	-
	<p><b>Conversion kit for low-loss header DN 25</b></p> <p>for conversion into a distribution manifold with integrated hydraulic separator (low-loss header). Range of application up to 1600 l/h, max. up to MV3 - 3-fold distribution manifold. Consisting of: two distance rings for a resistance-free connection of flow and return chamber, incl. screws and o-rings.</p>	<b>34431</b>	-
	<p><b>Contact thermostat 20-60 °C</b></p> <p>Contact thermostat for limiting the flow temperature, adjustable from 20 - 60 °C</p>	<b>Q00145</b>	-
	<p><b>Safety group DN 25 up to 50 kW</b></p> <p>for the installation on a modular distribution manifold DN 25, with a connection of 3/4" int. thread (sealed with plug) for the installation of the connection set for the expansion tank (item no. 7507), pressure relief valve 1/2" x 3/4", 3 bars, up to 50 kW, pressure gauge 0-4 bars</p>	<b>52543</b>	-
	<p><b>Connection set for diaphragm expansion tank</b></p> <p>for assembly to the safety group DN 25 with self-sealing double nipple 3/4" and mounting equipment, tank connector 3/4", armoured hose with bend 3/4" x 700 mm, maximum tank diameter = 440 mm</p>	<b>7507</b>	-
	<p><b>PAW actuator SRS - 5 Nm 230 V</b></p> <p>Change-over switch for manual / automatic operation, simple assembly and disassembly thanks to the patented PAW snap-in mechanism, with 1.5 m cable and mounting set for halting assembly on the PAW mixing valve, for weather-compensated control, due to the removable scale it is suited for flow on the right or left side</p> <p><b>Technical data</b></p> <p>Electrical connection: 230 V / 50 Hz  Input power: 2.5 W  Torque: 5 Nm  Setting time for 90°: 140 s</p>	<b>705001</b>	-
	<p><b>PAW actuator SR10 24/3P - 10 Nm 24 V</b></p> <p>Like PAW actuator SR10 (item no. 705002), but: with electrical connection/supply voltage 24 VAC for control systems with 3-level-control</p> <p><b>Technical data</b></p> <p>Electrical connection: 24 V/50 Hz  Input power: 1.5 W  Torque: 10 Nm  Setting time for 90°: 140 s</p>	<b>7054</b>	-



Illustration		Item no.	€ / piece
	<p><b>PAW actuator SR10 24/ST - 10 Nm 24 V</b></p> <p>Like PAW actuator SR10 (item no. 705002), but: with electrical connection/supply voltage 24 VAC/DC control voltage direct: 0(2)...10 VDC for continuous control systems with 0...10 V output</p> <p><b>Technical data</b>            Electrical connection: 24 V/50 Hz            Input power: 1.5 W            Torque: 10 Nm            Setting time for 90°: 140 s</p>	70541	-
	<p><b>PAW actuator SR10 - 10 Nm 230 V</b></p> <p>Change-over switch for manual / automatic operation, simple assembly and disassembly thanks to the patented PAW snap-in mechanism, with 1.5 m cable and mounting set for halting assembly on the PAW mixing valve, for weather-compensated control, due to the removable scale it is suited for flow on the right or left side</p> <p><b>Technical data</b>            Electrical connection: 230 V / 50 Hz            Input power: 3.5 W            Torque: 10 Nm            Setting time for 90°: 140 s</p>	705002	-
	<p><b>Limit switch</b></p> <p>The limit switch is a micro switch.            For the assembly in the actuators SR5 and SR10-24/3P.</p>	705101	-