

Application:

The Oventrop boiler connection system "Regumat-180" – pump length 180 mm – for a time-, cost- and space-saving connection of the boiler to the pipework. The "Regumat-180" stations are available with or without high-efficiency pumps.

Advantages:

- pre-assembled connection system for pumps with a length of 180 mm
- high quality materials
- universal thermal insulation of modular construction supplied with each "Regumat"
- easy installation by use of tailpipe sets
- no hemp sealing
- supply and return pipe can be changed on site

Choice of the "Regumat-180" stations:

Product assembly DN 25 for pump length 180 mm

The "Regumat-180" without pump ball valve at the pump inlet is available with or without high-efficiency pump (energy efficiency class A)

as basic model (without mixing valve)

as model with three- or four-way mixing valve with bypass with manual presetting and actuator.

The "Regumat" can be upgraded with a differential pressure relief device.

Dimensions: H = 414 mm, W = 248 mm, D = 210 mm



"Regumat M3-180" DN 25

| | Model <u>without</u> mixing valve | Model <u>with</u> mixing valve | |
|---|-----------------------------------|--------------------------------|------------------|
| | "Regumat S-180" | "Regumat M3-180" | "Regumat M4-180" |
| Isolation device with 2 ball valves and 2 thermometers (without pressure relief device) | X | X | X |
| Flanged pipe with check valve | X | X | X |
| Three-way mixing valve with actuator (suitable for standard boiler regulations) | | X | |
| Four-way mixing valve with actuator (suitable for standard boiler regulations) | | | X |
| Distance piece | X | | |
| Insulation | X | X | X |

Tailpipe sets are available as accessories.

Tender specification “Regumat S-180” DN 25

Product assembly for the connection of the boiler to the pipework.

Consisting of: Isolation device with 2 ball valves for the isolation of the heating circuit and 2 thermometers integrated in the handles for flow and return temperature display. Flanged pipe with check valve in the return pipe to avoid gravity circulation and universal thermal insulation of modular construction.

Ball valves: Body and stem made of brass with double O-ring seal.
Hard-chrome plated brass balls, PTFE seats, brass collar nuts.
Thermometers integrated in the handles, with position indicator “full flow” respectively “closed”.

Connection: To boiler and to heating circuit G 1½ male thread without collar nut for tailpipe sets, flat sealing.

Technical data:

Size: DN 25
Max. operating temperature: 95 °C
Max. operating pressure: 10 bar
Temperature range: 0 °C up to 120 °C
Opening pressure check valve: 20 mbar
k_{vs} value: 7.4
Pump connection: for pumps with G 1½ male thread, pump length 180 mm
Distance between supply and return pipe: 125 mm

Note: On delivery, the supply pipe is on the right hand side. If required, the supply and the return pipe can be changed on site (see installation instructions).

Tender specification “Regumat M3-130” DN 25

Product assembly for the connection of the boiler to the pipework.

Consisting of: Isolation device with 2 ball valves for the isolation of the heating circuit and 2 thermometers integrated in the handles for flow and return temperature display. With three-way mixing valve with manual presetting and mounted actuator for flow temperature control. Flanged pipe with check valve in the return pipe to avoid gravity circulation and universal thermal insulation of modular construction.

Ball valves: Body and stem made of brass with double O-ring seal.
Hard-chrome plated brass balls, PTFE seats, brass collar nuts.
Thermometers integrated in the handles, with position indicator “full flow” respectively “closed”.

Three-way mixing valve: With bypass with manual presetting, body and regulating insert made of brass, shaft of mixing valve with double O-ring seal.

Connection: To boiler and to heating circuit G 1½ male thread without collar nut for tailpipe sets, flat sealing.

Technical data:

Size: DN 25
Max. operating temperature: 95 °C
Max. operating pressure: 10 bar
Temperature range: 0 °C up to 120 °C
Opening pressure check valve: 20 mbar
k_{vs} value: 4.3
Pump connection: for pumps with G 1½ male thread, pump length 180 mm
Distance between supply and return pipe: 125 mm

Actuator: Voltage 230 V
Operating time for 90° angle: 140 seconds
Cable 2.2 m long

Note: On delivery, the supply pipe is on the right hand side. If required, the supply and the return pipe can be changed on site (see installation instructions).

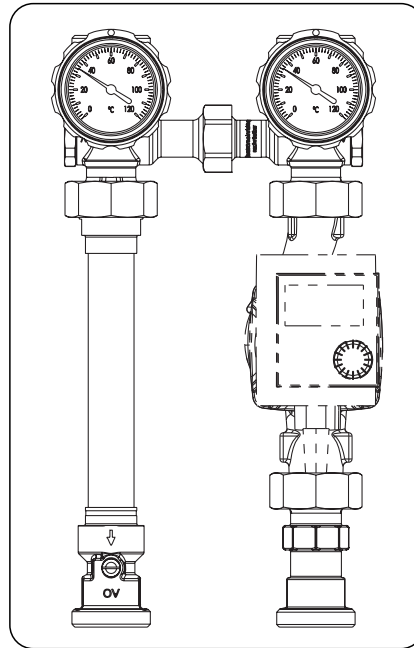
Function:

The station “Regumat S-180” consists of an isolation device with thermometers integrated in the handles of the ball valves to shut off the heating circuit and a distance piece for length compensation in the supply pipe. If required, the “Regumat” can be upgraded with a differential pressure relief insert.

The flanged pipe with check valve is integrated in the return pipe and avoids gravity circulation.

Note:

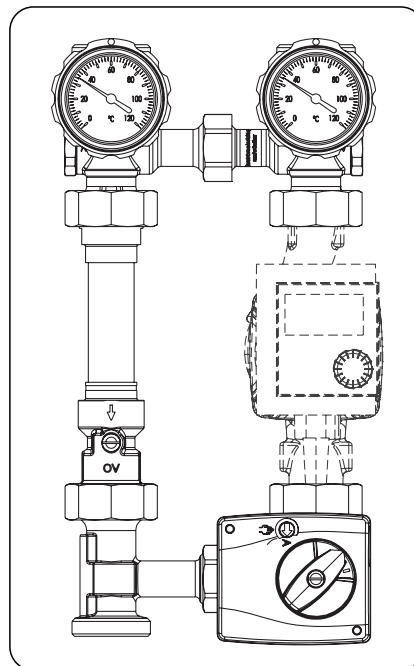
When the circulation pump is switched off, a low gravity circulation depending on the circulation pressure is still possible within the heating system as the check valve is not tight sealing.



“Regumat S-180”

Function:

The “Regumat M3-180” has the same design and function as the “Regumat S-180”. It is additionally equipped with a three-way mixing valve with mounted actuator. The three-way mixing valve serves to regulate the flow temperature and has a bypass with manual presetting. A manually set return flow share can be added to the supply pipe via this bypass in order to reduce the temperature of a surface heating for instance.



“Regumat M3-180”

Tender specification "Regumat M4-180" DN 25

Product assembly for the connection of the boiler to the pipework.

Consisting of: Isolation device with 2 ball valves for the isolation of the heating circuit and 2 thermometers integrated in the handles for flow and return temperature display. With four-way mixing valve with bypass with manual presetting and mounted actuator for flow temperature control. Flanged pipe with check valve in the return pipe to avoid gravity circulation and universal thermal insulation of modular construction.

Ball valves: Body and stem made of brass with double O-ring seal.
Hard-chrome plated brass balls, PTFE seats, brass collar nuts.
Thermometers integrated in the handles, with position indicator "full flow" respectively "closed".

Four-way mixing valve: With bypass with manual presetting, body made of bronze, cover and regulating insert made of brass, shaft of mixing valve with double O-ring seal.

Connection: To boiler and to heating circuit G 1½ male thread without collar nut for tailpipe sets, flat sealing

Technical data:

Size: DN 25
Max. operating temperature: 95 °C
Max. operating pressure: 10 bar
Temperature range: 0 °C up to 120 °C
Opening pressure check valve: 20 mbar
kvs value: 4.2
Pump connection: for pumps with G 1½ male thread, pump length 180 mm

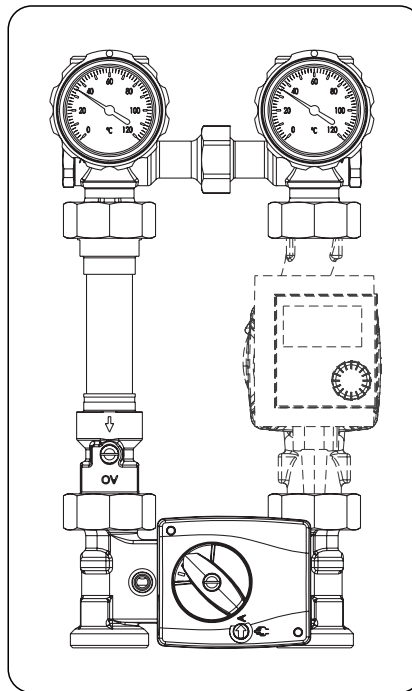
Distance between supply and return pipe: 125 mm

Actuator: Voltage 230 V
Operating time for 90° angle: 140 seconds
Cable 2.2 m long

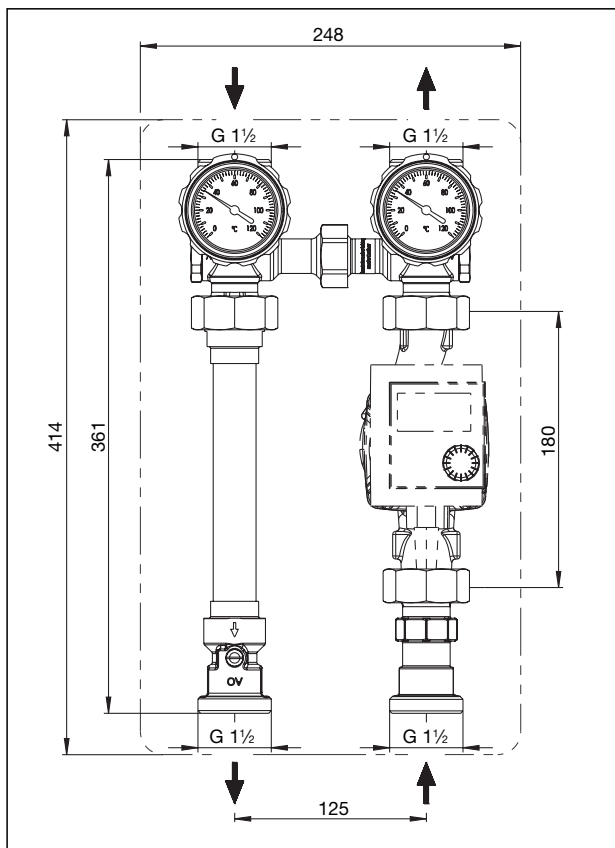
Note: On delivery, the supply pipe is on the right hand side. If required, the supply and the return pipe can be changed on site (see installation instructions).

Function:

The "Regumat M4-180" has the same design and function as the "Regumat S-180". It is additionally equipped with a bronze four-way mixing valve with mounted actuator. The four-way mixing valve serves to regulate the flow temperature. The return temperature of the boiler is increased at the same time. The bypass with manual presetting in the mixing valve serves to regulate the flow temperature in systems with a high boiler temperature and a low flow temperature (such as surface heating systems). This bypass constantly adds return water to the supply pipe.

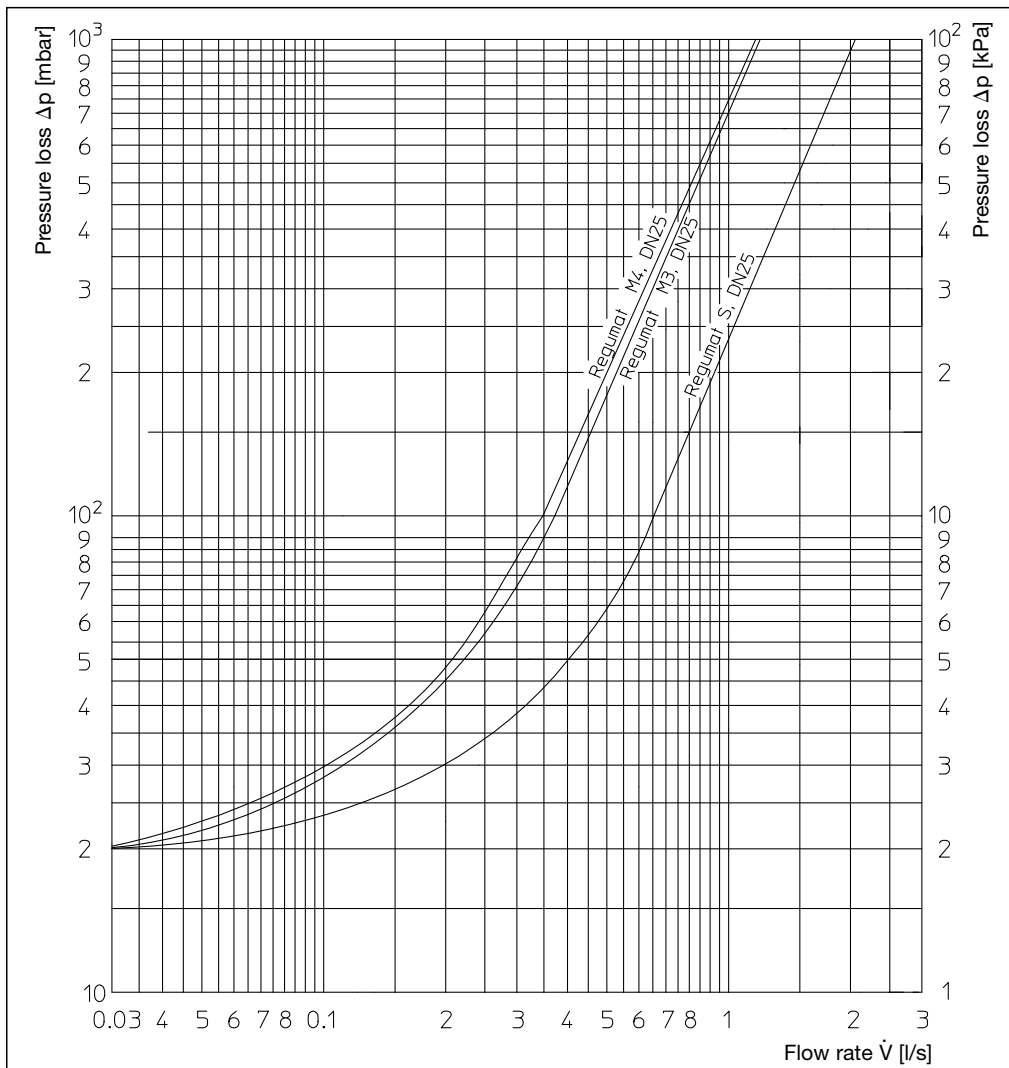


"Regumat M4-180"

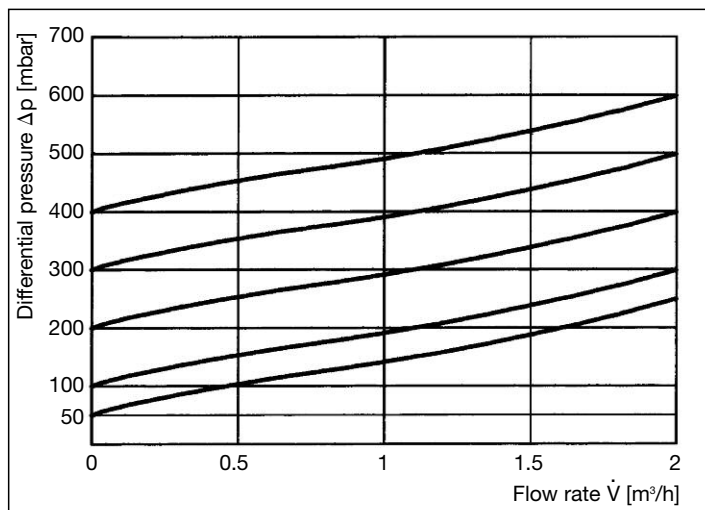


Dimensions "Regumat S-180" without pump ball valve at the pump inlet

As for the models with mixing valve (M3-180 and M4-180), the mixing valve is fully opened.



Flow chart "Regumat-180"



Flow chart bypass (differential pressure relief device)

Wall bracket:

For mounting the "Regumat" DN 25 onto the wall, a wall bracket, item no. 1352096, is available.

Tailpipe sets are available as accessories.

Subject to technical modification without notice.

Product range 6
ti 175-EN/10/MW
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