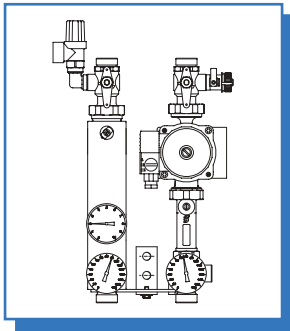


Hydraulic kit



HYDRAULIC KIT

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|-------------------------------------|--|--|
| 1) Circulation pump | 6) Thermometer | 10) Connector ADG for the expansion vessel |
| 2) SETTER Inline PF balancing valve | 7) Stop ball valve with safety valve | 11) Wall fixing |
| 3) Venting tank with bleeder valve | 8) Stop ball valve with fill and drain cock and integrated check valve | 12) Packaging box |
| 4) Bleeder valve | 9) Safety valve | |

Flow circuit components (venting side)

Stop ball valve with safety valve (response pressure 6 bar)

The ball valve allows the flow circuit line to be divided between the collector and the heat accumulator. As required by safety regulations, the connection between the collector and safety valve is not interrupted in any of the ball valve positions.

The safety valve thus protects the system components against excessive over-pressure in all operating phases.

Holes are provided in the handle of the ball valve so that it can be sealed to protect against unintentional closing. This prevents unintentional disconnection of the connecting line between the collector and the expansion vessel at this point.

Venting tank with bleeder valve

The purpose of the venting tank is to remove air from the medium flowing through the tank.

The venting tank can hold up to approx. 2.5 dl of air and has a bleeder valve for releasing the air.

The bleeder valve is routed to the outside through the insulation which means that it can be accessed even when the insulating casing is on. The outlet has a suitable fitting for easy attachment of a hose.

The frequency and quantity of the collected air can be used to check the leak tightness of the system

Pressure gage

The pressure gage with a range from 0 to 10 bar indicates the system pressure.

Thermometer

The thermometer with a range from 0 to 160°C constantly indicates the medium temperature in the flow circuit. The temperature is recorded directly in the medium to minimize the reaction time.

The sensor is inserted in a protective pipe so that it can be exchanged without having to empty the system.

Return circuit components (pump side)

Stop ball valve with fill and drain cock and integrated check valve

The ball valve allows the return line to be split between the collector and the heat accumulator. The special ball cock design provides various functions. If the handle is pointing in the direction of flow the system medium can circulate. An integrated check valve stops the medium flowing in the opposite direction and also acts as a gravity brake. Turning the handle 90° to the right closes the ball cock in the direction of the medium flow and allows the upper system part (collector) to be filled and emptied using the fill and drain cock.

Turning the handle 90° to the left closes the ball cock in the direction of the medium flow and allows the lower system part (reservoir) to be filled using the fill and drain cock.

A male thread G 3/4" is provided on the fill and drain cock for connecting a hose. Holes are provided in the handle of the ball valve so that it can be sealed to protect against unintentional closing.

WILO ST 25/6-3 circulation pump, solar version

This circulation pump, included as standard in the scope of delivery and integrated in the hydraulic kit, covers a large delivery range.

The required operating point can be preselected using one of the three levels.

A defective pump can be replaced without having to empty the system using the stop cocks on the suction side (Setter Inline PF) and the pressure side (ball valve).

SETTER Inline PF balancing valve

Precision adjustment at the balancing valve allows the required delivery quantity to be adapted to system requirements. The proven combination of balancing valve and flow indicator in one housing in the hydraulic kit balancing valves means that no additional measuring components are required for the SETTER Inline PF. Flow rate indication is constant, i.e. the adjustment can be immediately verified by means via the flow rate indicator. The indicator is pre-calibrated for a medium viscosity of 2.3 mm²/s. This does away with the need for correction curves.

The connection flange on the outlet side is directly screwed onto the 1 1/2" pump connector fittings which means there are no seal locations for further adapter components.

Connector ADG

The connector fitting with G 3/4" connecting thread for the expansion vessel is connected in series with the circulation pump. This arrangement prevents negative working pressure conditions in even critical systems and avoids reductions in the working pressure, one of the main causes of early evaporation of the medium.

Thermometer

The thermometer with a range from 0 to 160°C constantly indicates the medium temperature of the flow circuit. The temperature is recorded directly in the medium to minimize the reaction time.

The sensor is inserted in a protective pipe so that it can be exchanged without having to empty the system.