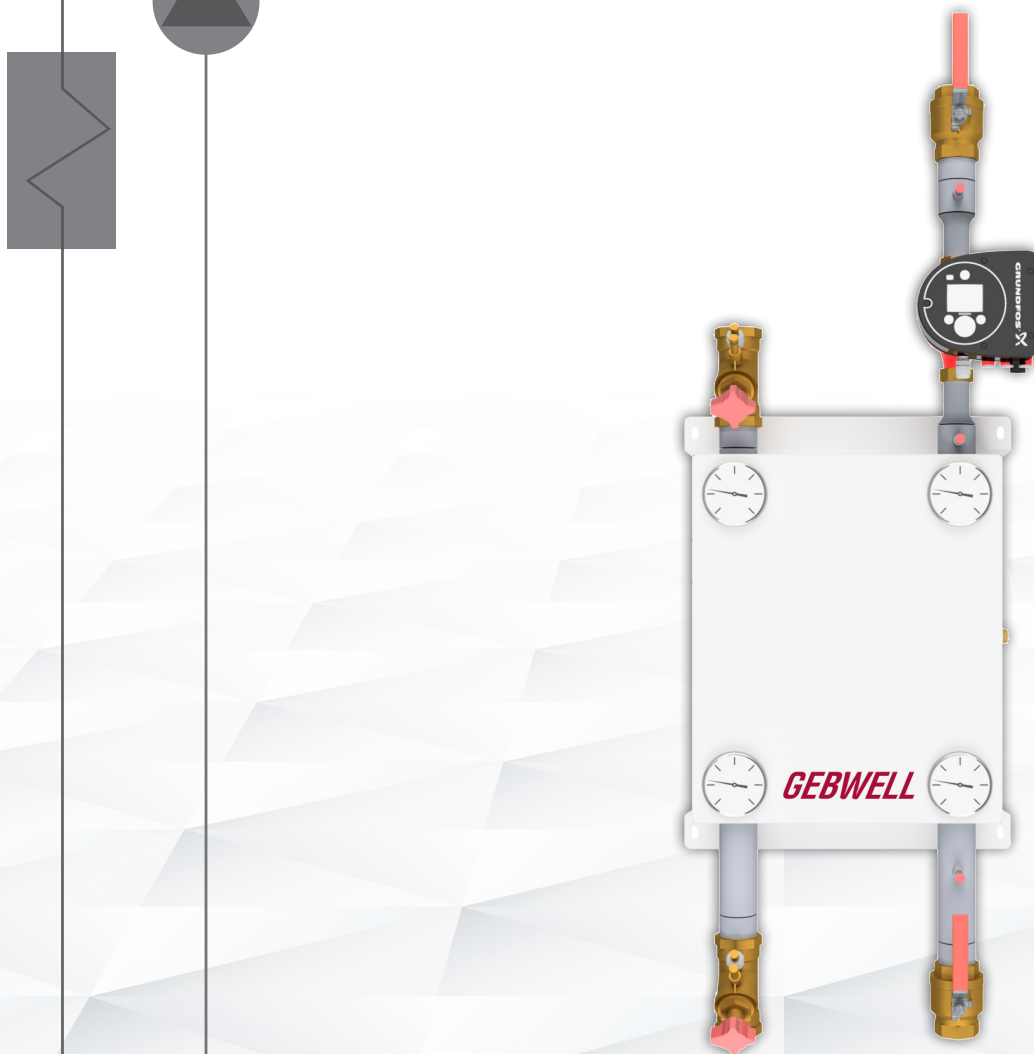


# Gebwell shunt group

Control circuit for heating and cooling





## Gebwell shunt group

Gebwell shunt group is a factory-assembled package to act as a control circuit for heating and cooling in the secondary circuit.

The shunt group enables accurate temperature control of the water coming from a high-temperature main line to a heating network with lower temperature. It can for example be used as a control circuit for a ventilation unit.

## Shunt group models

The Gebwell shunt group is available in three different models: H, L and U. The main line (primary side) connections in the H, L and U models are located on the bottom, side and top of the unit, respectively. The secondary circuit connections are always on the top of the unit. Moreover, the L model is available in both left- and right-hand versions.

The shunt group is available equipped with a 2- or 3-way valve, different pipe sizes, different circulation pumps, different actuators, and with a 0–10 V or 230 V control message system.

## Fast and easy to install

The shunt group is fully enclosed and insulated, and it is attached to the wall with brackets supplied with the unit.

The Gebwell shunt group saves installation time because there is no need to build a shunt group on-site using individual components.



## Contents

- Circulation pump
- Control valve and actuator
- Shut-off valves
- Thermometers
- Balancing valves
- Non-return valve
- Insulation and housing
- Wall brackets

## Properties

- Max operating pressure: 6 bar
- Operating temperature: +2...+110 °C
- Piping material: EN 10217-2 (DN20-80 or EN 10216-2 (DN100 >)), pressure vessel steel (P235GH), EN 1.4301 (AISI 304)
- Pipe sizes: DN20, DN25, DN32, DN40, DN50, DN65, DN80 and DN100
- Circulation pumps: Grundfos Magna3 or Wilo Stratos
- Actuators: Siemens SSC619, SAS31.00, SAX619.03, SAX319.00, SKC60 and SKC32.60
- Control message: 0–10 V or 230 V



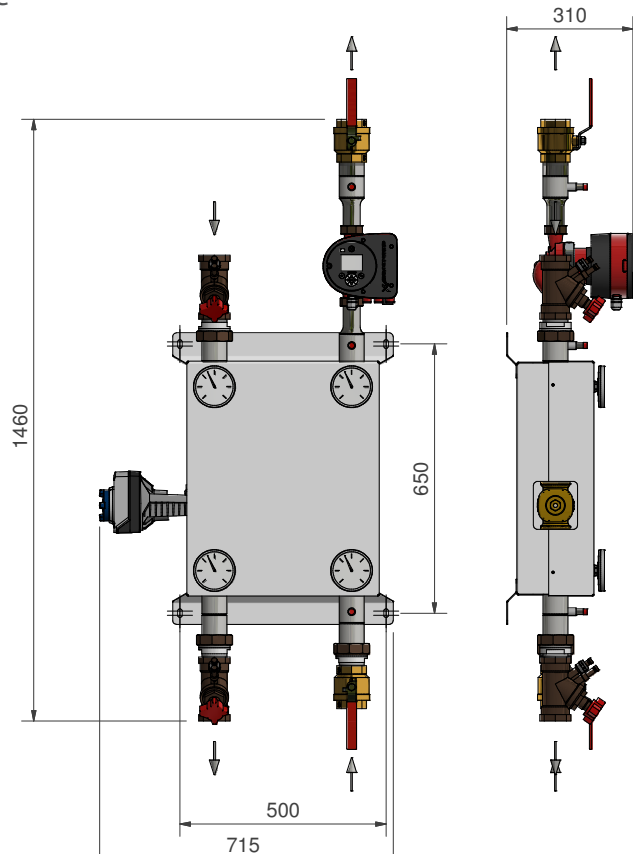
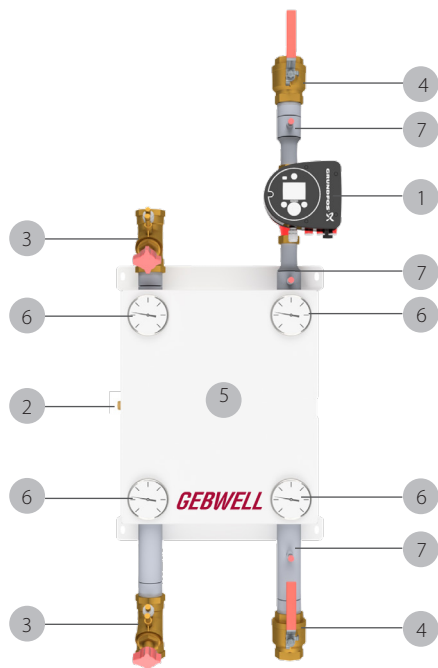
## Product code key

S 3 L L 20 G 2 10V

- Actuator control message: 10V = 0–10 V, 230V = 3-point control
- Kvs value of the valve: 2 = 2.5 6 = 6.3 10 = 10.0 25 = 25.0 50 = 50.0 80 = 80.0 100 = 125
- Make of the pump: G = Grundfos W = Wilo
- Connection size DN
- Side of the primary side connections R = right, L = left (code used if necessary)
- Location of the primary side connections H = connections on the bottom L = connections on the side U = connections on the top
- Valve type 2 = 2-way valve 3 = 3-way valve
- Product family Shunt group S



## Gebwell model H shunt group | 2-way valve



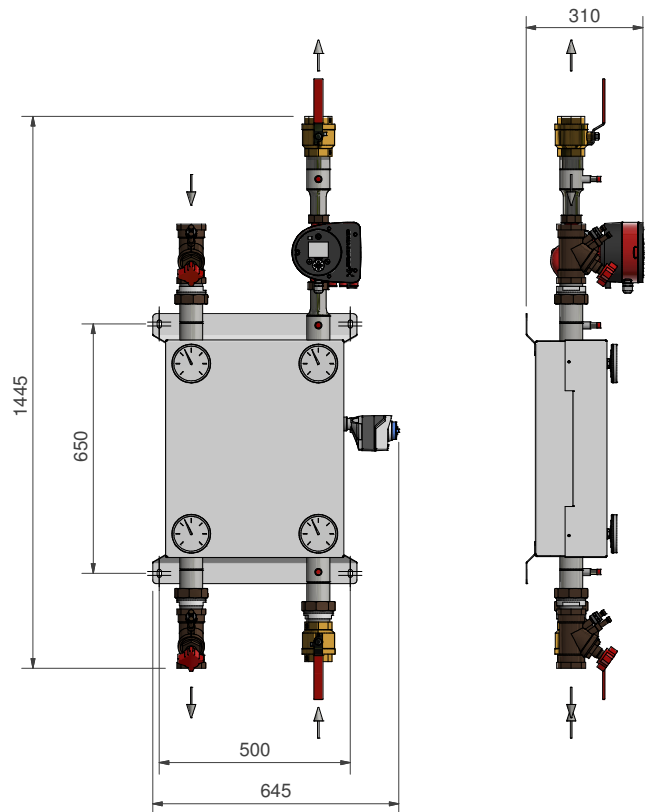
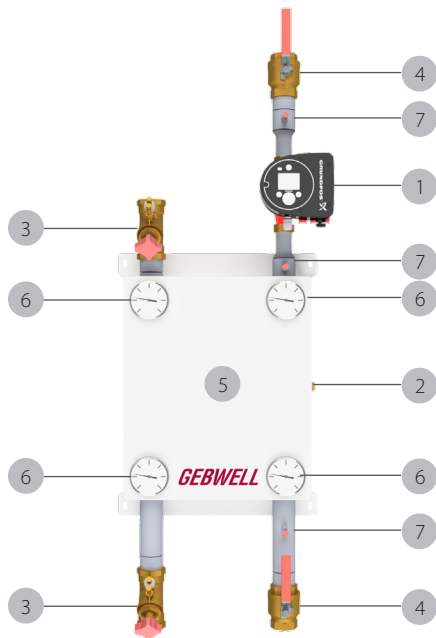
- |   |                  |   |                  |
|---|------------------|---|------------------|
| 1 | Circulation pump | 5 | Non-return valve |
| 2 | Control valve    | 6 | Thermometer      |
| 3 | Balancing valve  | 7 | Measuring        |
| 4 | Shut-off valve   |   |                  |

Designation	Pipe size DN	Max flow l/s	Control valve				Max external pressure loss kPa
			Model	DN	KVS	PN	
Gebwell shunt group H20	20	0.20	VVG549.15-2.5	15	2.5	25	81
Gebwell shunt group H25	25	0.50	VVG549.25-6.3K	25	6.3	25	81
Gebwell shunt group H32	32	0.80	VVG41.25-10	25	10.0	16	81
Gebwell shunt group H40	40	1.06	VVG41.25-10	25	10.0	16	61
Gebwell shunt group H50	50	1.81	VVG41.40-25	40	25.0	16	37

The shunt group is available equipped with either Grundfos Magna3 (G) or Wilo Stratos (W) circulation pump and a 0–10 V or 230 V actuator control message.



## Gebwell model H shunt group | 3-way valve



- |   |                  |   |                  |
|---|------------------|---|------------------|
| 1 | Circulation pump | 5 | Non-return valve |
| 2 | Control valve    | 6 | Thermometer      |
| 3 | Balancing valve  | 7 | Measuring        |
| 4 | Shut-off valve   |   |                  |

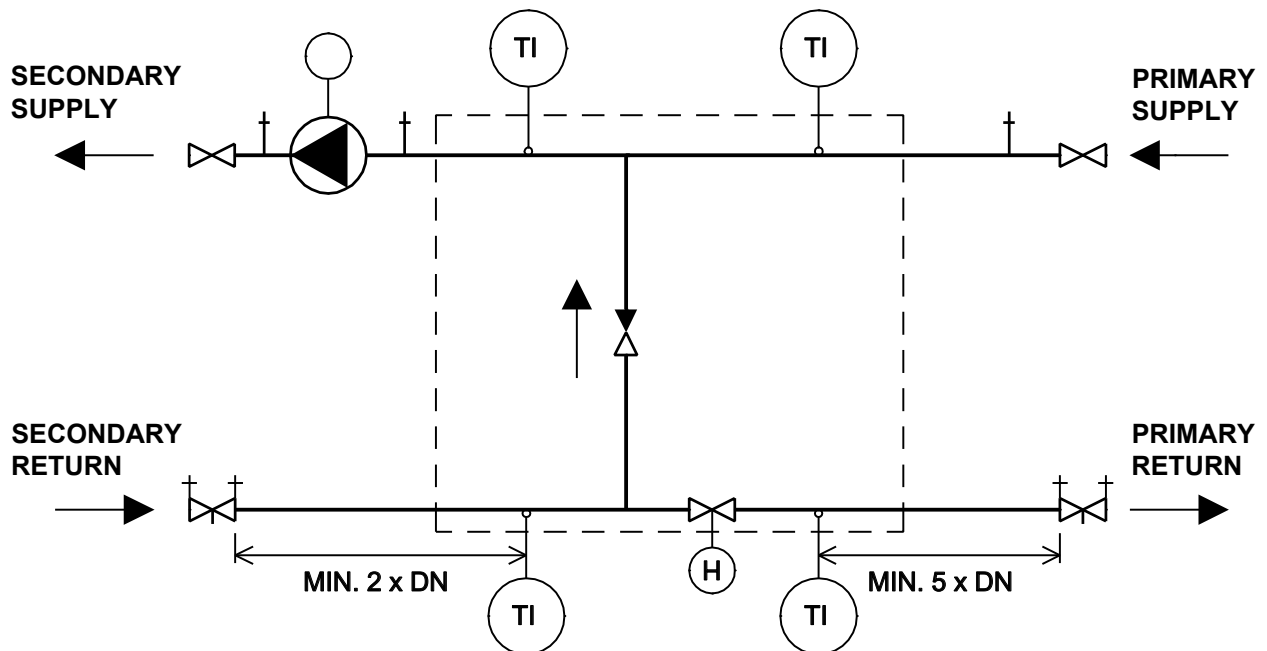
Product	Pipe size DN	Max flow l/s	Control valve				Max external pressure loss kPa
			Model	DN	KVS	PN	
Gebwell shunt group H20	20	0,20	VXG44.15-2.5	15	2,5	16	81
Gebwell shunt group H25	25	0,50	VXG44.20-6.3	20	6,3	16	81
Gebwell shunt group H32	32	0,80	VXG44.25-10	25	10,0	16	81
Gebwell shunt group H40	40	1,06	VXG44.25-10	25	10,0	16	61
Gebwell shunt group H50	50	1,81	VXG44.40-25	40	25,0	16	37

The shunt group is available equipped with either Grundfos Magna3 (G) or Wilo Stratos (W) circulation pump and a 0–10 V or 230 V actuator control message.

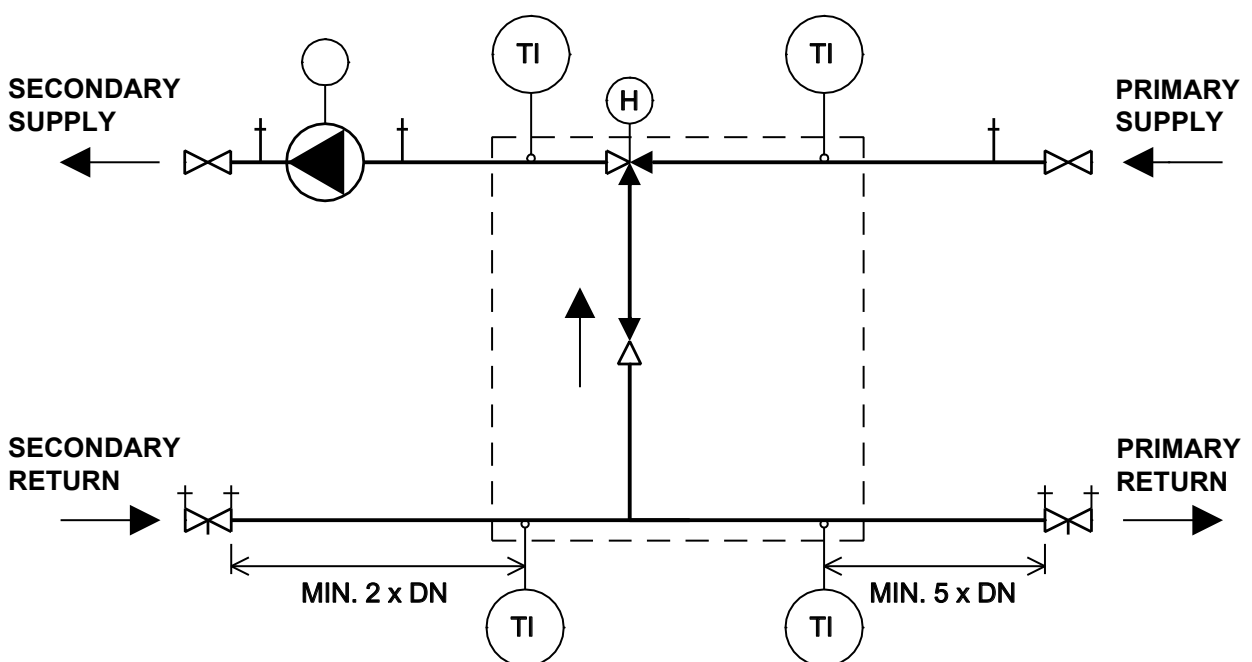


## PI diagrams

### Gebwell model H shunt group | 2-way valve



### Gebwell model H shunt group | 3-way valve





# ***GEBWELL***

Based in Leppävirta, Finland, Gebwell Ltd. is a company specialised in environmentally friendly heating and cooling solutions.

We manufacture equipment designed for connecting buildings to district heating and for the utilisation of ground source heat in heating of buildings. We also manufacture all Pivaset® fire extinguishing products.

Our products are designed and manufactured in Leppävirta in modern production facilities spanning 20,000 square metres. Gebwell® ground source heat pumps, G-Energy® accumulators, G-Power® district heating substations and Pivaset® fire hydrant cabinets are all manufactured by our highly skilled and experienced personnel.

Our customers include HVAC and construction industry professionals for whom we offer ready solutions for serving detached house owners, housing companies and other property owners.

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