

# PUMP STATIONS AND MANIFOLDS FOR HEATING CIRCUITS



CE

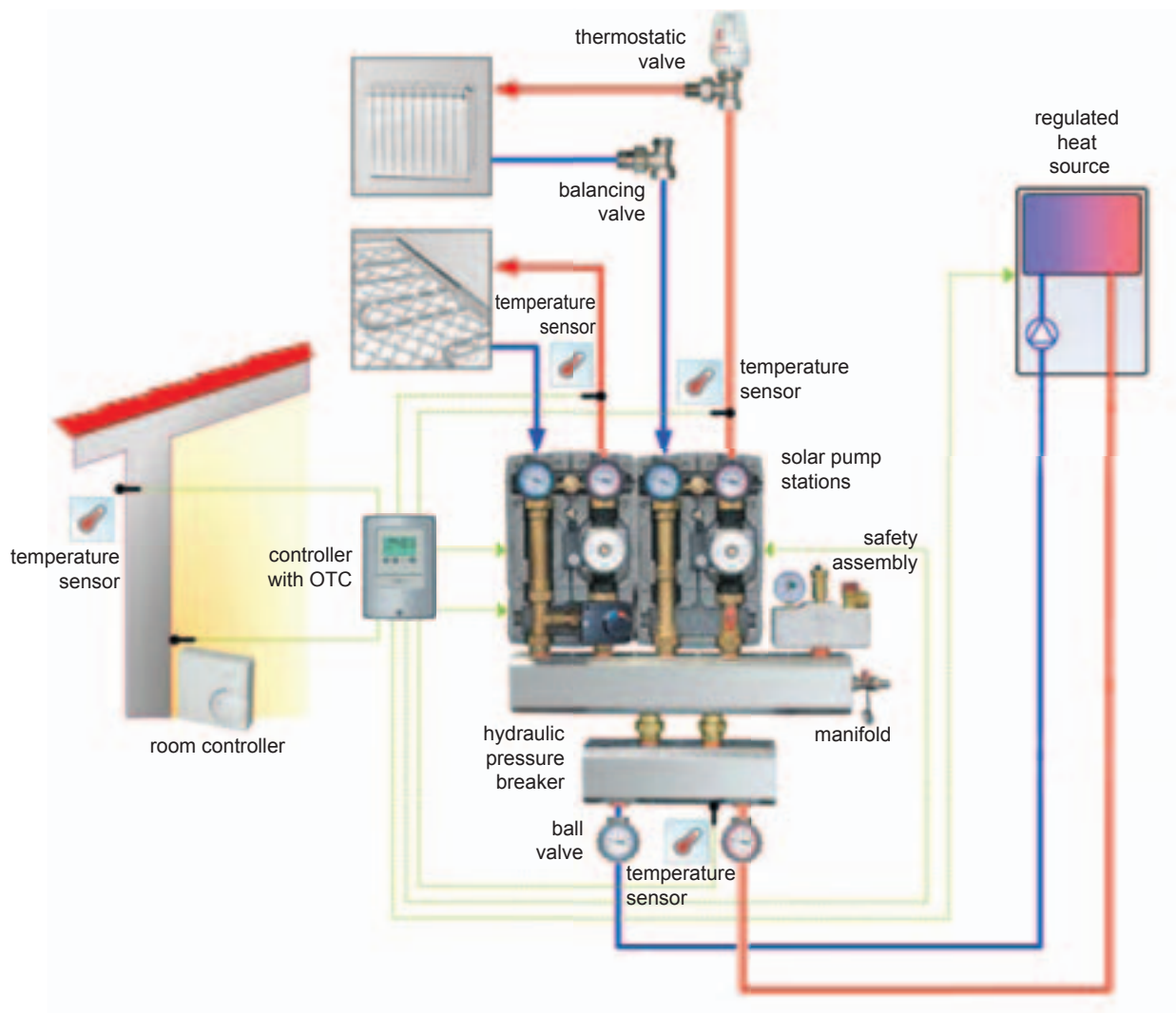
EN  
v 1.0

**Regulus**<sup>®</sup>

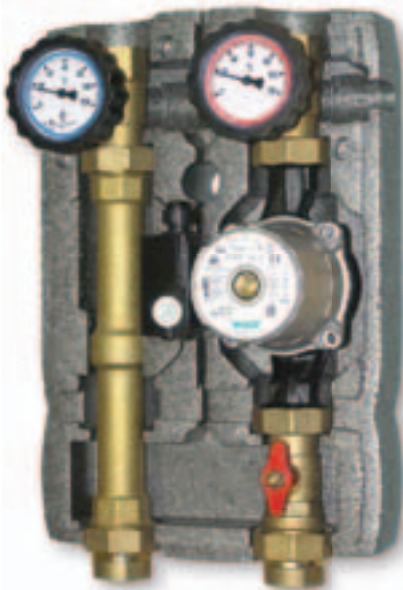


## System of pump stations and manifolds

This variable assembly kit consisting of solar pump stations and manifolds offers a wide choice of assembly combinations for various heating systems and heat sources. It makes possible connecting underfloor or wall heating, radiators, and hot water heating. The heat source can be anything you like - a heat pump, gas- or electric boiler, solid-fuel boiler etc. The heat source can work either with an accumulation tank or without it. Manifolds of HV line enable connecting a safety group (a safety and air vent valves, pressure gauge - thermally insulated) and an expansion vessel or a drain valve.



- » Variable assembly kit for 2-5 heating circuits
- » Easy installation minimizes cost and helps avoid mistakes
- » Thermal insulation of pump stations and manifolds minimizes heat loss
- » Right and economic operation of a heating system
- » Easy servicing, shutting off heating circuits, temperature control
- » Nice looking, simple arrangement in a boiler room



### TWO-PIPE PUMP STATION M2

Supply pipe on the right, connection G 1", Code: 8913

#### SUPPLY LINE:

- 1" connecting threaded joint with cap nut.
- Ball valve DN 20 with cap nut.
- WILO RS 25/6 circulation pump.
- Ball valve DN 20 with cap nut and thermometer in handle (thermometer with red frame, 0-120 °C).

#### RETURN LINE:

- Ball valve DN 20 with cap nut, integrated check valve (inactivated by turning by 45°) and thermometer in handle (thermometer with blue frame, 0-120 °C).
- 1" connecting threaded joint with cap nut

Thermally insulating case (dimensions 250 × 380 × 190 mm).

Max. pressure 6 bar.

Max. temperature 110 °C.

Pitch 125 mm.

Kv: 8,0.

#### TYPICAL APPLICATION:

For heating circuits without thermostatic valves or DHW circuits up to 50 kW output (at  $\Delta t$ : 20°C and max. flow rate 2150 l/h).

### TWO-PIPE PUMP STATION M3 WITH BYPASS

Supply pipe on the right, connection G 1", Code: 8914

As M2 but with an adjustable bypass, 0-0.5 bar.

#### TYPICAL APPLICATION:

For heating circuits with thermostatic valves up to 50 kW output (at  $\Delta t$ : 20°C and max. flow rate 2150 l/h).





### TWO-PIPE PUMP STATION M3 MIX3 WITH 3-WAY MIXING VALVE AND BYPASS

Supply pipe on the right, connection G 1", Code: 8915

#### SUPPLY LINE:

- 1" connecting threaded joint with cap nut.
- 3-way mixing valve, ready for actuator.
- WILO RS 25/6 circulation pump.
- Ball valve DN 20 with cap nut and thermometer in handle (thermometer with red frame, 0-120 °C).
- Adjustable bypass for heating system, 0-0.5 bar.

#### RETURN LINE:

- Ball valve DN 20 with cap nut, integrated check valve (inactivated by turning by 45°) and thermometer in handle (thermometer with blue frame, 0-120 °C).
- T-piece for mixing valve.
- 1" connecting threaded joint with cap nut.

Thermally insulating case (dimensions 250 × 380 × 190 mm).

Max. pressure 6 bar.

Max. temperature 110 °C.

Pitch 125 mm.

Kv: 6,0.



#### TYPICAL APPLICATION:

For mixed heating circuit for both underfloor heating and radiators up to 35 kW (at  $\Delta t$ : 20°C and max. flow rate 1500 l/h).



### ACTUATOR

Code: 9193

Actuator for mixing valve.

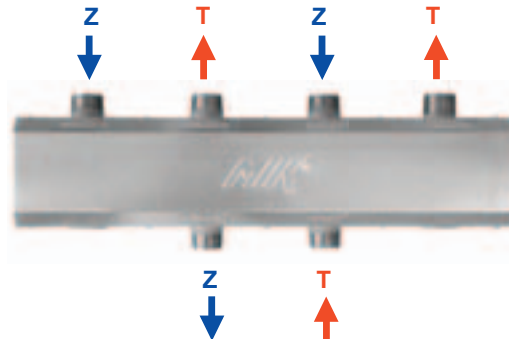
Running time 120 s.

3-point control.

230V.

IP 41.

### MANIFOLD HV 60/125



T = Supply line  
Z = Return line

Manifold with insulation, for heat sources up to 50 kW (at  $\Delta t$  20 °C in primary circuit).

Max. flow rate 2 m<sup>3</sup>/h.

Max. pressure 6 bar.

Thermally insulating case 110 × 110 mm.

Connection with G 1" M threaded joint to pump stations, pipe pitch 125 mm.

Connection with G 1" M threaded joint to boiler, pipe pitch 125 mm.

Item	Application	Length	Code
HV 60/125-2	For 2 heating circuits	508 mm	9507
HV 60/125-3	For 3 heating circuits	758 mm	9508

### WALL BRACKET FOR HV MANIFOLD

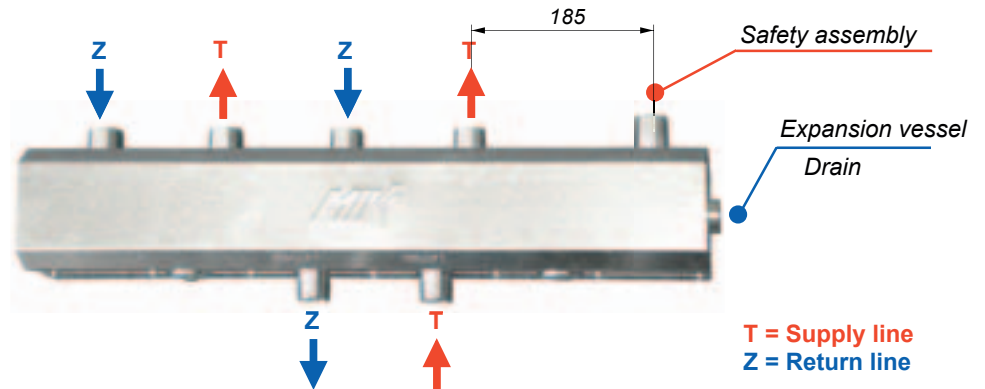


Pair of wall brackets for manifold with thermally insulating case 110 × 110 mm.

Distance between wall and manifold center 100 mm.

Code: 9191

### MANIFOLD HV 60/125 SG with connections for expansion vessel and safety assembly



Manifold with insulation, for heat sources up to 50 kW (at  $\Delta t$  20°C in primary circuit).

Max. flow rate 2 m<sup>3</sup>/h.

Max. pressure 6 bar.

Connection with G 1" M threaded joint to safety assembly. Lateral connection with G 3/4" F joint for expansion vessel and/or drain valve.

Thermally insulating case 110 × 110 mm.

Connection with G 1" M threaded joint to pump stations, pipe pitch 125 mm.

Connection with G 1" M threaded joint to boiler, pipe pitch 125 mm.

Item	Application	Length	Code
HV 60/125 SG-2	For 2 heating circuits	670 mm	9186
HV 60/125 SG-3	For 3 heating circuits	920 mm	9187

### WALL BRACKET FOR HV MANIFOLD

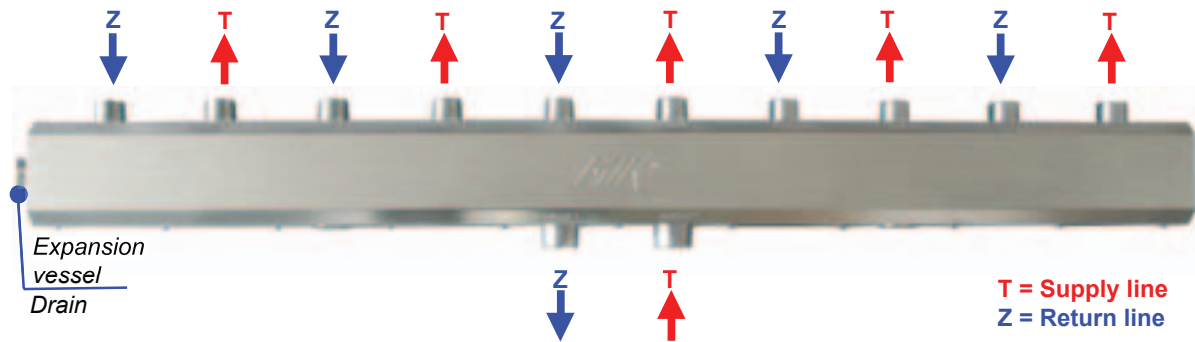


Pair of wall brackets for manifold with thermally insulating case 110 × 110 mm.

Distance between wall and manifold center 100 mm.

Code: 9191

### MANIFOLD HV 70/125 with connections for expansion vessel



Manifold with insulation, for heat sources up to 70 kW (at  $\Delta t$  20 °C in primary circuit).

Max. flow rate 3 m<sup>3</sup>/h.

Max. pressure 6 bar.

Lateral connection with G 1" M threaded joint to expansion vessel or drain valve.

Thermally insulating case: 110 × 110 mm.

Connection with G 1" M threaded joint to pump stations, pipe pitch 125 mm.

Connection with G 5/4" M threaded joint to boiler, pipe pitch 125 mm.

Item	Application	Length	Code
HV 70/125-4	For 4 heating circuits	1008 mm	9509
HV 70/125-4	For 5 heating circuits	1258 mm	9510
HV 70/125-6	For 6 heating circuits	1508 mm	9511

### WALL BRACKET FOR HV MANIFOLD



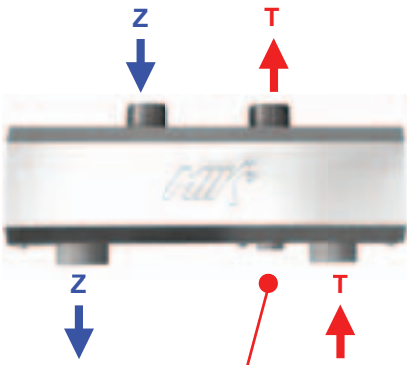
Pair of wall brackets for manifold with thermally insulating case 110 × 110 mm.

Distance between wall and manifold center 100 mm.

Code: 9191



## HYDRAULIC PRESSURE BREAKER HW 60/125



Temperature sensor

T = Supply line

Z = Return line

Designed to connect a boiler with its own circulation pump to a manifold, it balances different flow rates through pump stations and a boiler.

Not intended to connect manifold to accumulation tank.

G 1/2" bottom connection for boiler sensor.

Thermally insulating case 110 × 110 mm.

**HW 60/125 G 1" suitable for flow rate up to 2 m<sup>3</sup>/h - Code: 9188**

Connection with G 1" M threaded joint to manifold, pipe pitch 125 mm.

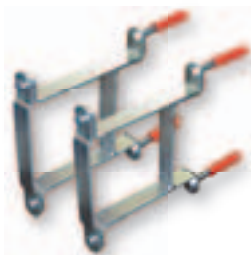
Connection with G 1" M threaded joint to boiler, pipe pitch 250 mm.

**HW 60/125 G 5/4" suitable for flow rate up to 3 m<sup>3</sup>/h - Code: 9514**

Connection with G 5/4" M threaded joint to manifold, pipe pitch 125 mm.

Connection with G 5/4" M threaded joint to boiler, pipe pitch 250 mm.

## WALL BRACKET FOR HW HYDRAULIC PRESSURE BREAKER



Pair of wall brackets for hydraulic pressure breaker with thermally insulating case 110 x 110 mm (distance between wall and pressure breaker center is 100 mm).

**Code: 9190**



## **SAFETY ASSEMBLY WITH INSULATION**

---

**Safety assembly with 20mm EPS insulation.**

It consists of:

- Forged brass body.
- Pressure gauge  $\varnothing$  63, 0-4 bar.
- Automatic air vent valve.
- 3 bar safety valve, 1/2", up to 50 kW.

*Connection: 1" female thread*

**Code: 9797**



## **ADJUSTABLE BYPASS FOR HEATING SYSTEM**

---

- Enables limiting max. pressure of circulation pump into heating system.
- Suitable for heating systems with thermostatic or other way controlled valves.
- Helps avoid noise caused by overpressure when most valves are closed.
- Nickel-plated surface.

*Connection: G 3/4" F × G 3/4" cap nut.*

**Setting range 0 - 0,5 bar.**

**Max. pressure 6 bar.**

**Max. temperature 110 °C.**

**Kv: 5,0**

**Code: 8840**





**Regulus**<sup>®</sup>

**ÚSPORNÉ ŘEŠENÍ  
PRO VAŠE TOPENÍ**

v1.0-06/2010

Regulus spol. s r.o. Czech Republic  
Do Koutů 1897/3 143 00 Praha 4  
Tel.: +420 241 764 506 Fax: +420 241 763 976  
e-mail: [sales@regulus.cz](mailto:sales@regulus.cz)  
[www.regulus.eu](http://www.regulus.eu)