

Shuntopac[®]

125-200 K



Shunt unit for cooling

Shuntopac 125-200 K is a shunt unit for conventional cooling systems. The shunt unit is available as standard with connection dimensions from DN 125 up to DN 200. It can be equipped with several components of any make and a variety of connection options.

Shuntopac 125-200 K is supplied with a fire and corrosion proof housing of aluzinc sheet. Standard insulation is AF/Armaflex AF-4. The shunt unit has a stand with four legs and foot plates for floor set-up and attachment.

The standard version pipe package consists of fully-welded pressure vessel pipe SS-EN 10216-2. The pipe package can be delivered in other qualities or with other surface treatment on request. The design of the tube bundle, in the specified mounting positions, provides a barrier against unwanted heat transfer due to double circulation.

Shuntopac 125-200 K is CE-marked in accordance with the manufacturer's declaration 2B according to the Machinery Directive.

The shunt unit is environmentally approved.



Equipment

1. Control valve

Seat valve with flange or threaded connection of any make and type.

2. Adjusting valves

2 pcs of optional manufacture and dimension. Fitted to the pipe mixing loop with flange joints TA STAD is delivered as standard. Also available with dynamic balancing valve, flow regulators or difference pressure regulators.

3. Shut-off valves

2 pcs butterfly valves dimensioned to work as end valves if the shunt unit is removed from the system. Mounted in the pipe mixing loop with flange joints.

4. Pump

Optional manufacture and type with “wet” or “dry” motor.

5. Thermometers

4 pcs graduated $-40 - +40$ °C. Mounted in thermowells.

6. Non-return valve

1 pc made of cast iron/stainless steel with spring-loaded beam. Mounted in flanged joints

7. Drainage

Design with screwed hose joint R 1/2”.

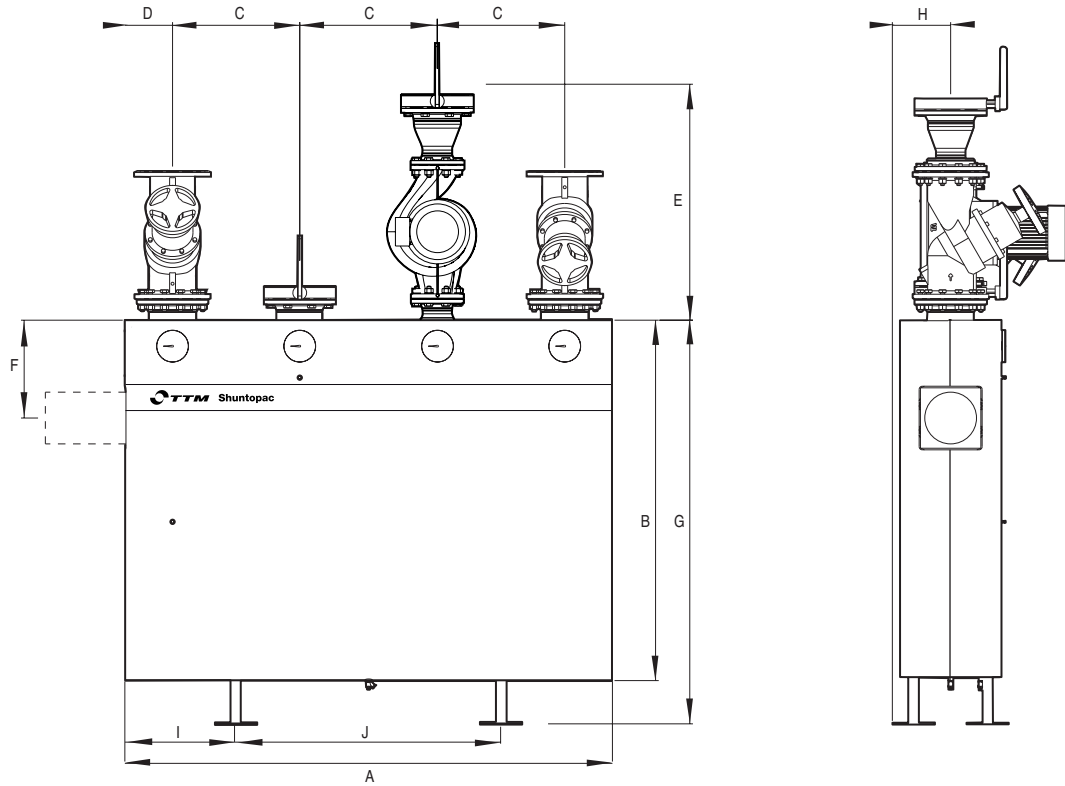
8. Test sockets

Type TA STAD are attached on each connection.

Special design

- Pipe mixing loop made of e.g., copper or stainless steel of the desired quality.
- Anti-corrosive painted pipe mixing loop, e.g. epoxy enamelled.

Dimensions



Conn. DN	125	150	200
A	1500	1900	2300
B	1250	1400	1700
C	380	500	600/650 (centre)
D	180	200	225
E	variabel	variabel	variabel
F	400	400	460
G	1450	1600	1900
H	275	275	275
I	370	450	525
J	760	1000	1250
Weight, approx. kg	400	550	750

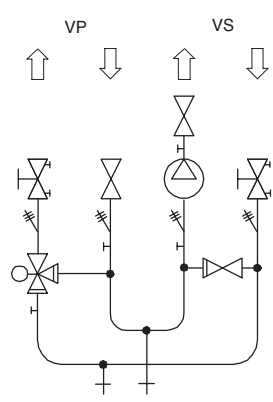
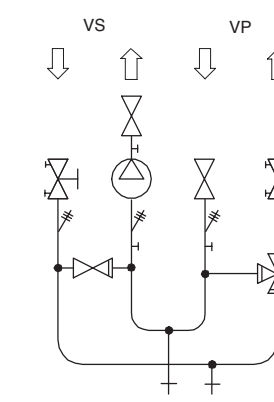
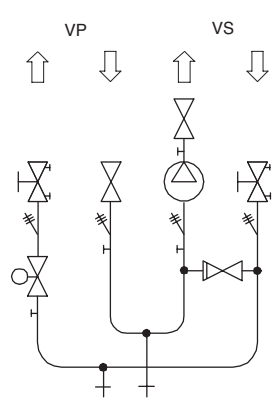
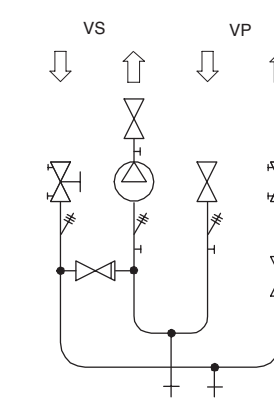
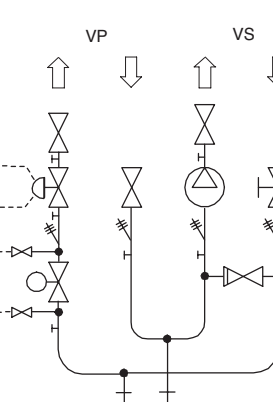
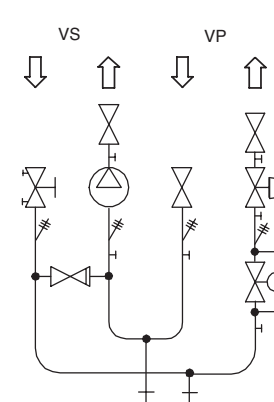
Max. pressure: 1,0 MPa

Temp. range: -20 – +110 °C

Specified dimensions are valid for the standard version. Some variations may occur if alternative equipment is used.

Shuntopac 125-200 K *Cooling*

Configurations

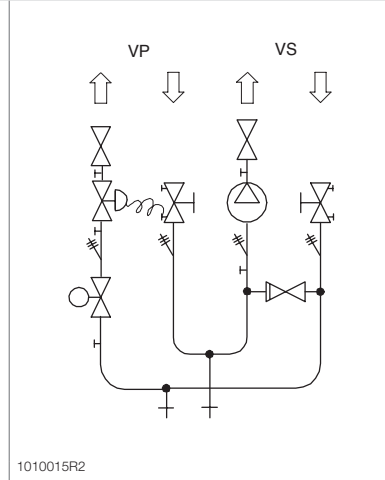
<p>01</p> <p>Constant flow on primary and secondary side.</p> <p>The control valve is mounted as mixing valve in the return pipe.</p>	 <p>1010013</p>	<p>02</p>  <p>1010014</p>
<p>09</p> <p>Variable flow on the primary side, constant on secondary side.</p> <p>The control valve is fitted in the return pipe.</p>	 <p>1010015</p>	<p>10</p>  <p>1010016</p>
<p>09 R1</p> <p>Variable flow on the primary side, constant on secondary side.</p> <p>The control valve is fitted in the return pipe.</p>	 <p>1010015R1</p>	<p>10 R1</p>  <p>1010016R1</p>

Configurations

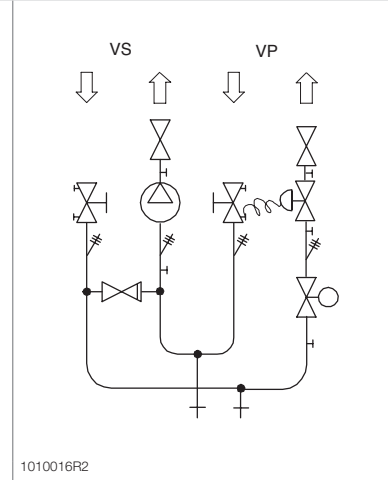
Variable flow on the primary side,
constant on secondary side.

The control valve is fitted in the return pipe.

09 R2



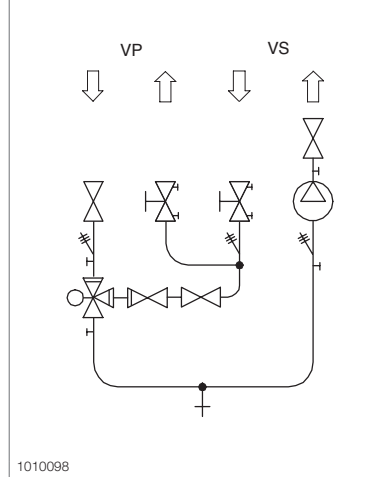
10 R2



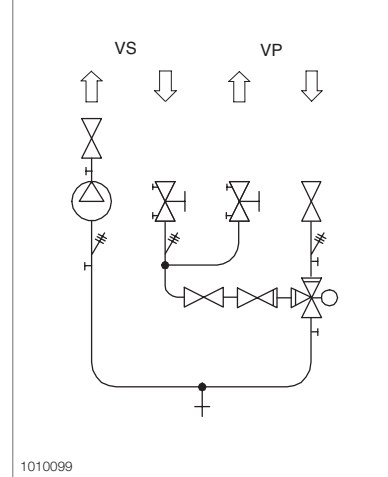
Variable flow on the primary side,
constant on secondary side.

The control valve is mounted as mixing
valve in the inlet pipe.

05 Sabo



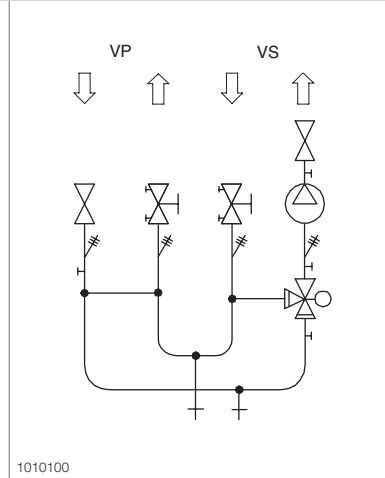
06 Sabo



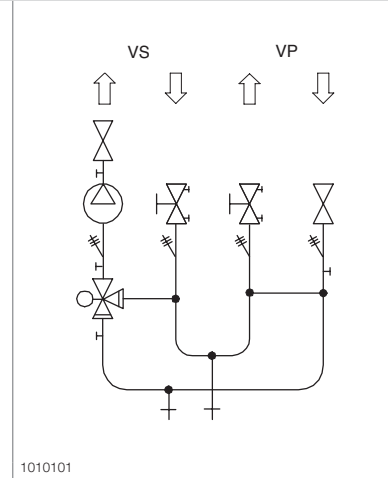
Constant flow on the primary and
secondary side.

The control valve is mounted as mixing
valve in the inlet pipe.

01 N



02 N



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Differential pressure measurement

All outside valves on the TTM Shuntopac® 125-200 K are provided with test sockets, allowing complete differential pressure measurement.

Primary side

B - A Measuring of the pressure difference over the adjusting valve on the primary side. Primary flow can be determined with the help of data for the adjusting valve.

C - A Available pressure difference on primary side.

H - B Pressure rise over the control valve.

Secondary side

D - E Measuring of the pressure difference over the adjusting valve on the secondary side. Secondary flow can be determined with the help of data for the adjusting valve.

F - D Pressure drop in connected object on secondary side.

G - F Pressure set over the circulation pump.

