

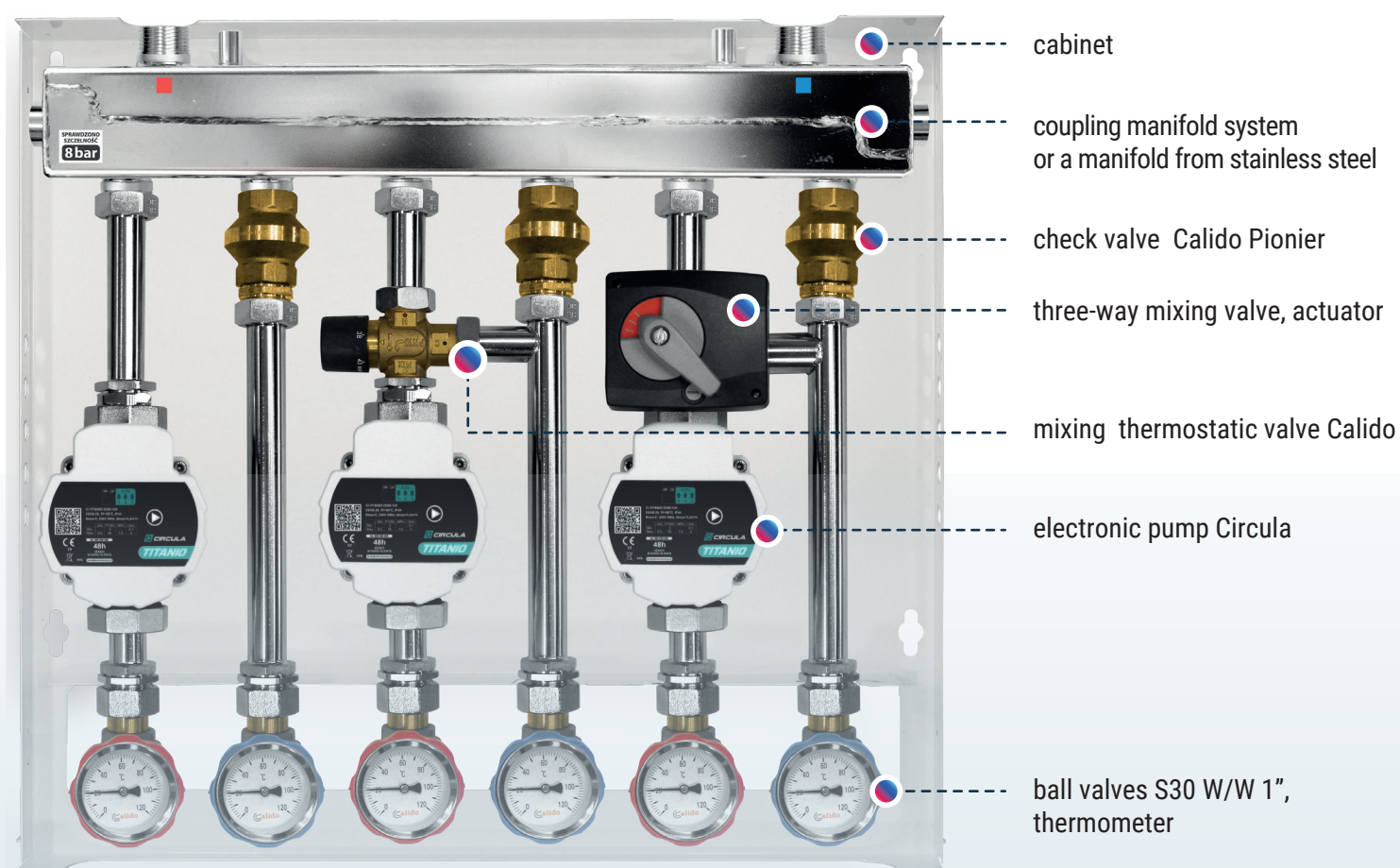


## Application

- Application in central heating  and floor heating systems 
- Aimed for division of heating system circuits.
- Available in configuration with two or three separate heating circuits.
- The heating circuits are combined with a dedicated coupling manifold system or a manifold from stainless steel.

- All the elements of pump groups Duro System are factory-assembled and closed in a cabinet, which ensures quick and trouble-free assembly and start-up of the entire system.
- Assembly set (bolts + screws) attached.

## Construction



## Technical data

Power of the system  $\leq 30$  kW, P max: 6 bar, T max: 90°C.

Medium: water (pursuant to PN-C-04607:1993) or water and glycol solution, up to 50%

Kvs value (flow coefficient) of a 3-way thermostatic valve Calido: 1,6 m<sup>3</sup>/h

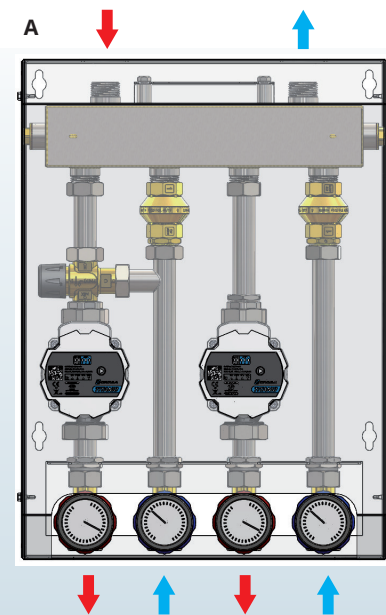
Temperature control range of 3-way thermostatic valve: 23÷43°C

Kvs value (flow coefficient) of a 3-way mixing valve ESBE: 6,3 m<sup>3</sup>/h or Calido: 8,4 m<sup>3</sup>/h

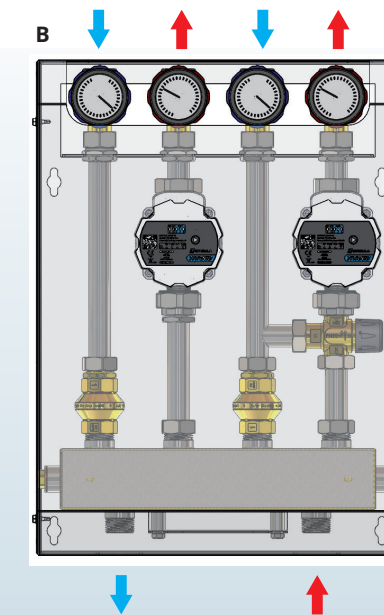
## Method of assembly

Pump groups can be installed in the following positions:

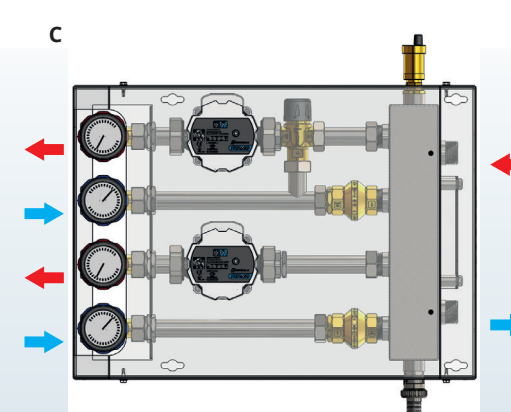
- heating medium is pumped downwards



- heating medium is pumped upwards



- heating medium is pumped to the left or to the right – a lateral position



In case of a lateral position, it is recommended that on the top of the coupling manifold system or the manifold an automatic air-vent should be installed and at the bottom of the coupling manifold system or the manifold a drain valve should be installed.

## Kinds of heating sections



direct with Circula pump, ball valves S30 W/W 1", thermometer and check valve Pionier 1"



with a thermostatic, mixing, three-way valve, Circula pump, with ball valves S30 W/W 1", thermometer and check valve Pionier 1"



with a three-way mixing valve, actuator, Circula pump, with ball valves S30 W/W 1", thermometer and check valve Pionier 1"

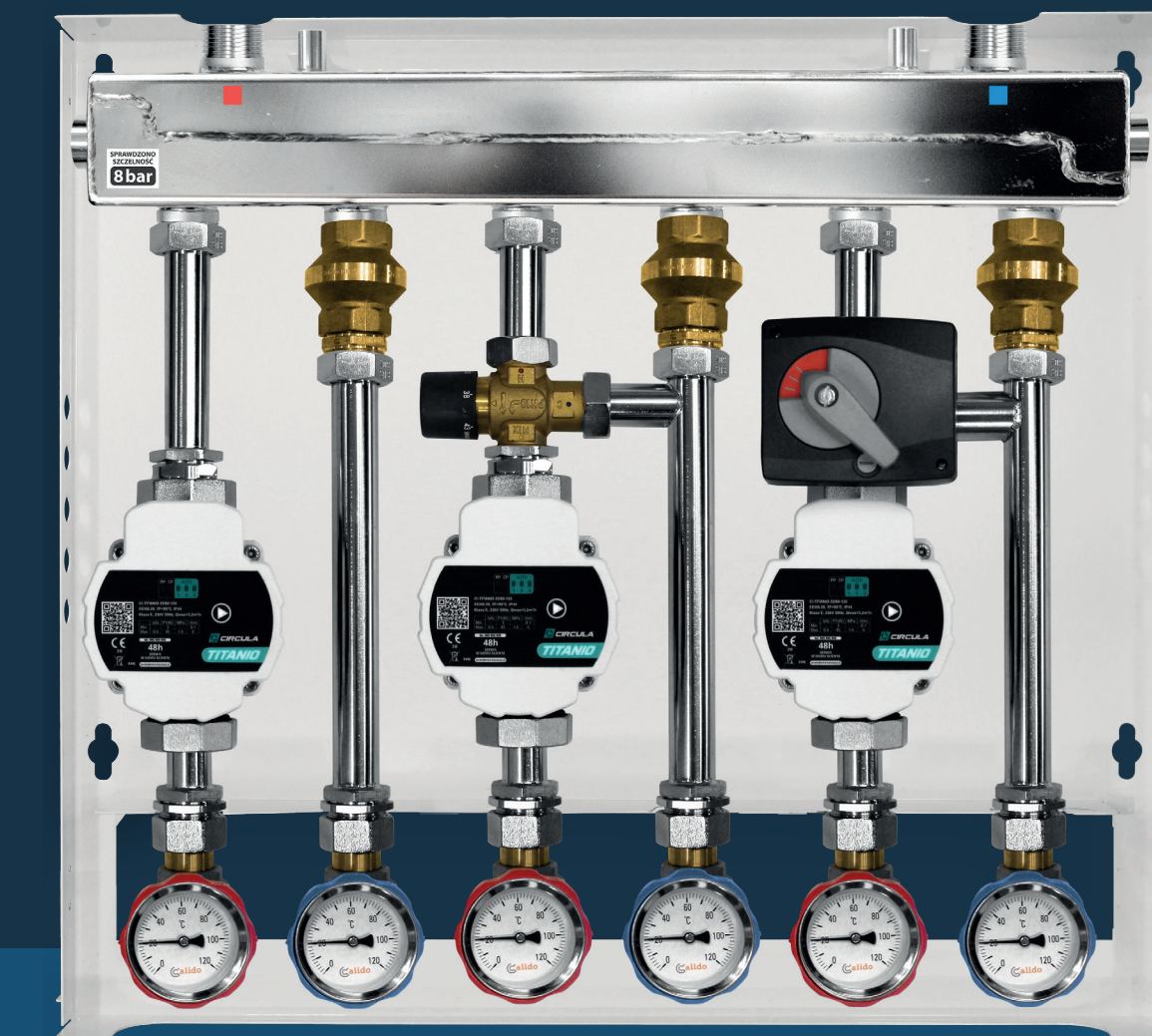
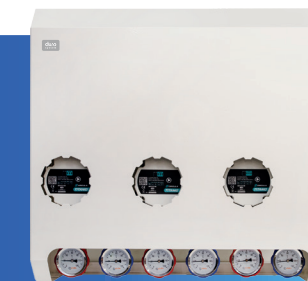
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arka-instalacje.pl

**cluro**  
system

THE SET  
IS READY FOR  
INSTALLATION



# Pump groups

with manifold / coupling manifold and casing,  
2 - section / 3 - section



### Available configurations of pump groups with 3 heating sections



**2<sup>nd</sup> section**  
direct, with the pump Circula



**2nd section**  
with a mixing thermostatic valve  
and the pump Circula



direct, with the pump Circular  
**3<sup>rd</sup> section**  
 direct, with the pump Circular



**2<sup>nd</sup> section**  
direct, with the pump Circula

**3<sup>rd</sup> section**  
with a mixing thermostatic valve  
and the pump Circula



with a mixing thermostatic valve  
and the pump Circula

**3<sup>rd</sup> section**  
with a mixing thermostatic valve  
and the pump Circula



**3<sup>rd</sup> section**  
with a 3-way mixing valve, an actuator  
and the pump Circula



**2nd section**  
with a 3-way mixing valve, an actuator  
and the pump Circula



**2<sup>nd</sup> section**  
with a 3-way mixing valve, an actuator  
and the pump Circula



3<sup>rd</sup> section  
with a 3-way mixing valve, an actuator  
and the pump Circula



**2<sup>nd</sup> section**  
with a mixing thermostatic valve  
and the pump Circula

**3<sup>rd</sup> section**  
with a mixing thermostatic valve  
and the pump Circula



and the pump Circula  
**2<sup>nd</sup> section**  
 with a 3-way mixing valve, an actuator  
 and the pump Circula  
**3<sup>rd</sup> section**  
 with a 3-way mixing valve, an actuator  
 and the pump Circula



**3<sup>rd</sup> section**  
with a 3-way mixing valve, an actuator  
and the pump Circula



**2<sup>nd</sup> section**  
with a mixing thermostatic valve and  
the pump Circula



**2<sup>nd</sup> section**  
with a 3-way mixing valve, an actuator  
and the pump Circula



with a mixing thermostatic valve  
and the pump Circula

**3<sup>rd</sup> section**

with a 3-way mixing valve, an actuator  
and the pump Circula



direct, with the pump Circula

**2<sup>nd</sup> section**  
with a 3-way mixing valve, an actuator  
and the pump Circula

**3<sup>rd</sup> section**  
with a 3-way mixing valve, an actuator  
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