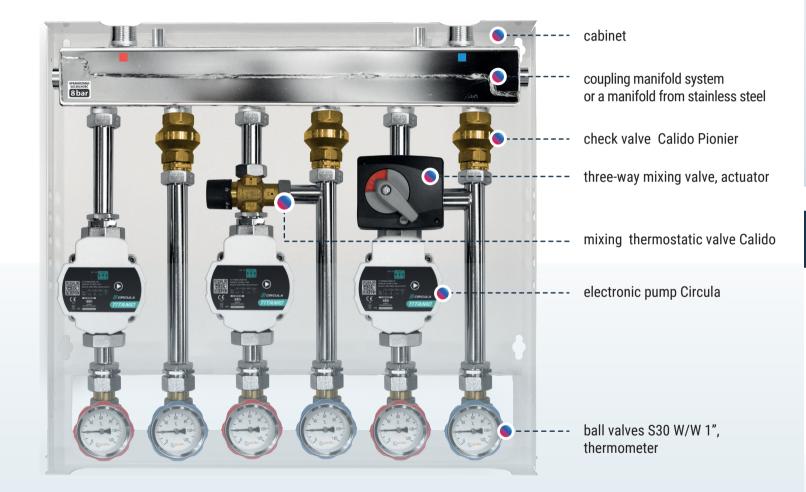
Application

- Application in central heating and floor heating
- 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 ≤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 m³/h

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

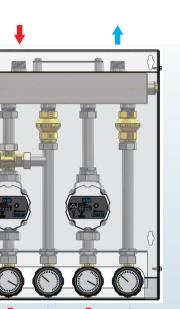
Kvs value (flow coefficient) of a 3-way mixing valve ESBE: 6,3 m³/h or Calido: 8,4 m³/h

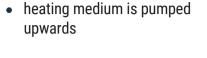
Method of assembly

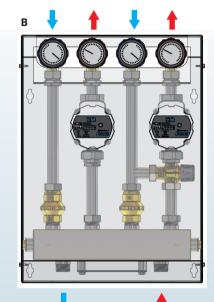
Pump groups can be installed in the following positions:

• heating medium is pumped downwards

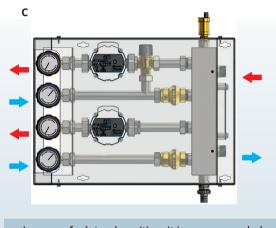








 heating medium is pumped to the left or to the right - a lateral position



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.

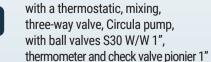
Kinds of heating sections





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









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

Arka Sp z o.o. ul. Ogrodowa 5, 76-004 Sianów, Poland tel.: 94 341 77 19, fax: 94 346 27 68

arka-instalacje.pl









Pump groups

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

Available configurations of pump groups with 2 heating sections

Available configurations of pump groups with 3 heating sections







D/S-GPT-B-B

D/S-GPT-2B-80

D/S-GPRT-B-B

Titanio 25/60-130

D/S-GPRT-2B-80

Titanio 25/80-130

type of section

Group with coupling manifold

and pump Circula Titanio 25/60-130

Group with coupling manifold and

Group with manifold and pump Circula

Group with manifold and pump Circula

pump Circula Titanio 25/80-130

direct, with the pump Circula

direct, with the pump Circula

D/S-GPT-B-Z3D Group with coupling manifold and pump Circula Titanio 25/60-130 D/S-GPT-B-Z3D-80

Group with coupling manifold and pump Circula Titanio 25/80-130 D/S-GPRT-B-Z3D Group with manifold and pump Circula

Titanio 25/60-130 D/S-GPRT-B-Z3D-80 Group with manifold and pump Circula

Titanio 25/80-130 type of section

direct, with the pump Circula

D/S-GPT-ZTM-ZTM

D/S-GPT-2ZTM-80

D/S-GPRT-ZTM-ZTM

Titanio 25/60-130

D/S-GPRT-2ZTM-80

Titanio 25/80-130

type of section

and the pump Circula

1st section

2nd section

the pump Circula

Group with coupling manifold

and pump Circula Titanio 25/60-130

Group with coupling manifold and pump Circula Titanio 25/80-130

Group with manifold and pump Circula

Group with manifold and pump Circula

with a mixing thermostatic valve and

with a mixing thermostatic valve

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











with a mixing thermostatic valve

D/S-GPT-B-ZTM

D/S-GPT-B-ZTM-80

D/S-GPRT-B-ZTM

Titanio 25/60-130

Titanio 25/80-130

type of section

index

D/S-GPRT-B-ZTM-80

Group with coupling manifold

and pump Circula Titanio 25/60-130

Group with coupling manifold and

Group with manifold and pump Circula

Group with manifold and pump Circula

pump Circula Titanio 25/80-130

direct, with the pump Circula

Group with coupling manifold

Group with coupling manifold

and pump Circula Titanio 25/60-130

and pump Circula Titanio 25/80-130

Group with manifold and pump Circula

and the pump Circula

D/S-GPT-ZTM-Z3D

D/S-GPT-ZTM-Z3D-80

D/S-GPRT-ZTM-Z3D

D/S-GPRT-ZTM-Z3D-80

Titanio 25/60-130

index

D/S-GPT-Z3D-Z3D

D/S-GPT-2Z3D-80

1st section

and the pump Circula

Group with coupling manifold

with a mixing thermostatic valve















and the pump Circula

and the pump Circula

3rd section













1st section direct, with the pump Circula 2nd section direct, with the pump Circula 3rd section with a mixing thermostatic valve and the pump Circula

Group with coupling manifold and pump

Group with coupling manifold and pump

Group with manifold and pump Circula

Group with manifold and pump Circula



D/S-GPT-B-B-ZTM

D/S-GPT-2B-ZTM-80

D/S-GPRT-B-B-ZTM

Γitanio 25/60-130

Titanio 25/80-13

type of section

D/S-GPRT-2B-ZTM-80

Circula Titanio 25/60-130

Circula Titanio 25/80-130

D/S-GPT-B-ZTM-ZTM Circula Titanio 25/60-130

D/S-GPT-B-2ZTM-80 Group with coupling manifold and pump Circula Titanio 25/80-130

D/S-GPRT-B-ZTM-ZTM Group with manifold and pump Circula Titanio 25/60-130

D/S-GPRT-B-2ZTM-80 Group with manifold and pump Circula Titanio 25/80-130

type of section

and the pump Circula

Titanio 25/60-130

Titanio 25/80-130

and the pump Circula

1st section direct, with the pump Circula 2nd section with a mixing thermostatic valve and the pump Circula 3rd section with a mixing thermostatic valve



Group with manifold and pump Circula Titanio 25/60-130 D/S-GPRT-3ZTM-80 Group with manifold and pump Circula Fitanio 25/80-130 type of section 1st section

index

D/S-GPT-ZTM-Z3D-Z3D

D/S-GPT-ZTM-2Z3D-80

Group with coupling manifold

Group with coupling manifold

D/S-GPRT-ZTM-Z3D-Z3D

D/S-GPRT-ZTM-2Z3D-80

ritanio 25/60-130

Titanio 25/80-130

type of section

and the pump Circula

and the pump Circula

1st section

2nd section

3rd section

and pump Circula Titanio 25/60-130

and pump Circula Titanio 25/80-130

Group with manifold and pump Circula

Group with manifold and pump Circula

with a mixing thermostatic valve

with a 3-way mixing valve, an actuator

with a mixing thermostatic valve and the pump Circula 2nd section with a mixing thermostatic valve and the pump Circula 3rd section with a mixing thermostatic valve and the pump Circula

D/S-GPT-ZTM-ZTM-ZTM

D/S-GPT-3ZTM-80

and pump Circula Titanio 25/60-130

and nump Circula Titanio 25/80-130

Group with coupling manifold

D/S-GPRT-ZTM-ZTM-ZTM



D/S-GPT-ZTM-ZTM-Z3D Group with coupling manifold and pump Circula Titanio 25/60-130 D/S-GPT-2ZTM-Z3D-80 Group with coupling manifold and pump Circula Titanio 25/80-130 D/S-GPRT-ZTM-ZTM-Z3D Group with manifold and pump Circula Titanio 25/60-130 D/S-GPRT-27TM-73D-80 Group with manifold and pump Circula Titanio 25/80-130 type of section

1st section

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

D/S-GPT-Z3D-Z3D-Z3D Group with coupling manifold and pump Circula Titanio 25/60-130 D/S-GPT-3Z3D-80 Group with coupling manifold and pump Circula Titanio 25/80-130 D/S-GPRT-Z3D-Z3D-Z3D Group with manifold and pump Circula Titanio 25/60-130 D/S-GPRT-373D-80 Group with manifold and pump Circula Titanio 25/80-130

type of section 1st 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 with a 3-way mixing valve, an actuator

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





and the pump Circula

pump Circula Titanio 25/80-130 D/S-GPRT-Z3D-Z3D Group with manifold and pump Circula Titanio 25/60-130

and pump Circula Titanio 25/60-130

Group with coupling manifold and

D/S-GPRT-2Z3D-80 Group with manifold and pump Circula Titanio 25/80-130

type of section with a 3-way mixing valve, an actuator

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

index

D/S-GPT-B-B-B

D/S-GPT-3B-80

D/S-GPRT-B-B-B

D/S-GPRT-3B-80

Titanio 25/60-130

Titanio 25/80-130

type of section

direct, with the pump Circula

direct, with the pump Circula

direct, with the pump Circula

1st section

2nd section

index

D/S-GPT-B-B-Z3D

D/S-GPT-2B-Z3D-80

D/S-GPRT-B-B-Z3D

Titanio 25/60-130

Titanio 25/80-130

type of section

direct, with the pump Circula

direct, with the pump Circula

and the pump Circula

with a 3-way mixing valve, an actuator

1st section

2nd section

3rd section

D/S-GPRT-2B-Z3D-80

Circula Titanio 25/60-130

Circula Titanio 25/80-130

Circula Titanio 25/60-130

Circula Titanio 25/80-130

Group with coupling manifold and pump

Group with coupling manifold and pump

Group with manifold and pump Circula

Group with manifold and pump Circula

Group with coupling manifold and pump

Group with coupling manifold and pump

Group with manifold and pump Circula

Group with manifold and pump Circula

D/S-GPT-B-ZTM-Z3D roup with coupling manifold and pump Circula Titanio 25/60-130

Group with coupling manifold and pump

Group with manifold and pump Circula

Group with manifold and pump Circula Titanio 25/80-130

with a 3-way mixing valve, an actuator







type of section 1st section direct, with the pump Circula 2nd section with a 3-way mixing valve, an actuator and the pump Circula 3rd section with a 3-way mixing valve, an actuator

Dimensions

