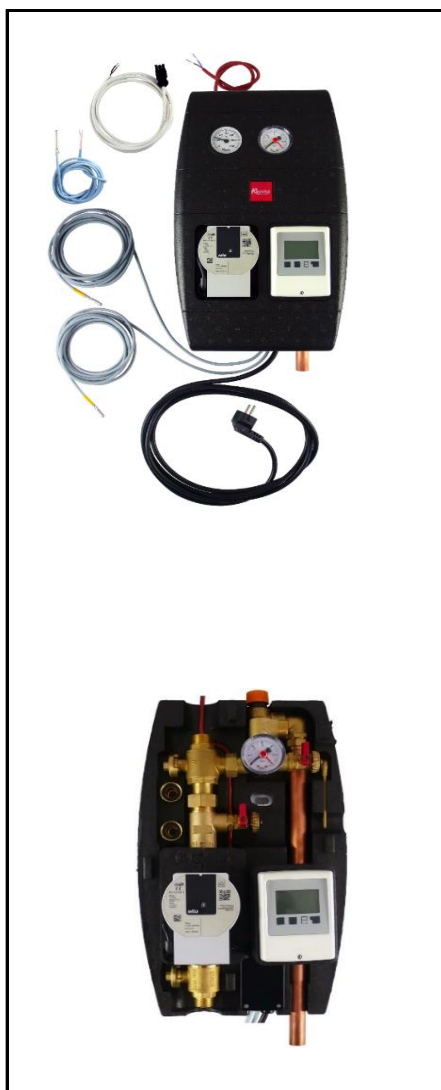


## CSE SOL W SRS1 T-K Solar Pump Station

v1.3\_07/2021



### Main Features

**Application**

The Solar Pump Station contains all components necessary for current and efficient operation, incl. a complete electrical wiring. Only the collector temperature sensor needs to be connected and a switched heat source, using a special el. plug (see the following text).

The SRS1 Controller is equipped with a potential-free contact that can be used to switch e.g. gas boilers or other switched heat sources that are ready for such a kind of control. For this purpose, a cable with a special connector can be used for a simple connection to the pump station.

**Description**

The pump station consist of Para ST 25 / 7-50 / iPWM2 pump, SRS1 T controller, non-return and safety valves, 2 ball valves, pressure gauge, thermometer, el. wiring, insulation and installation kit. After the control element with end stops is removed and the gland nut released, the ball valves enable easy replacement of O-rings without the need of draining the solar system.

The pump station further involves:

- outlet for expansion vessel connection
- outlet from safety valve, incl. extension piping led below the pump station for an easy connection
- solar system filling, draining and topping-up valves
- 2 temperature sensors connected to a consumer (4 m cable)
- solar temperature sensor (2 m cable)
- 4m long cable with a special connector to connect a gas boiler or another switched heat source
- 230 V power supply cable w. el. plug (3 m long, 3 x 1,5 mm<sup>2</sup> cross section)

**Flow rate measurement** The pump sends the momentary flow rate value as data to controller where it is displayed.

**Installation** on a tank or wall using the installation kit

**Working fluid** water-glycol mixture (max. 1:1)

### Code corresponding to connection size

Connection	G 3/4"M	G 1"M	Cu 18 mm	Cu 22 mm	Cu 28 mm
<b>Code</b>	<b>17899</b>	<b>17898</b>	<b>18119</b>	<b>17900</b>	<b>17901</b>

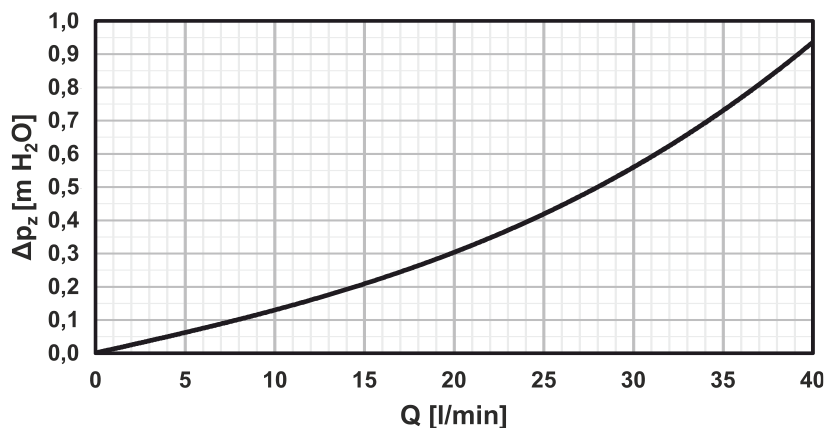
### Pump Station Data

Max. fluid working temperature	110 °C
Max. working pressure	6 bar
Min. system pressure	1.3 bar with the pump stopped
Flow rate measurement range	2-20 l/min
Max. switched current	13 A / 230 V
Power supply	230 V, 50 Hz
Ambient temperature	5 to 40 °C
Max. relative humidity	85% at 25 °C
Insulation material	EPP RG 60 g/l
IP rating	IP20
Overall dimensions	470 x 265 x 120 mm
Total weight	6.8 kg

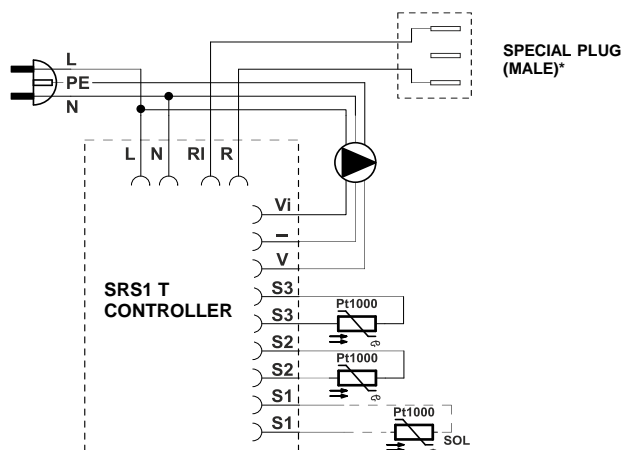
### Accessories

Code 7629	Cu 22 x Cu 22 fittings, straight, to connect safety valve to waste pipe
Code 13695	Cu 22 x G 3/4" M fittings, straight, to connect safety valve to waste pipe

### Pump Station Pressure Drop



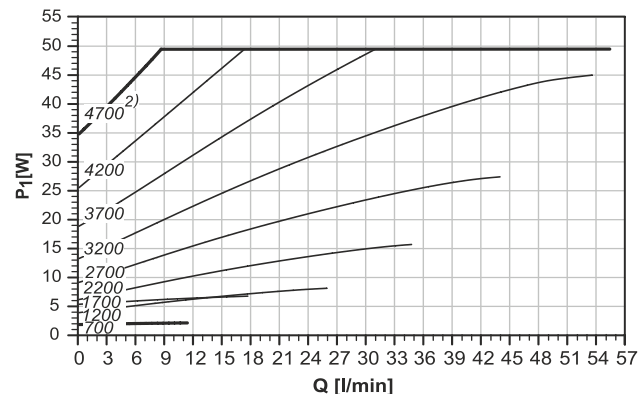
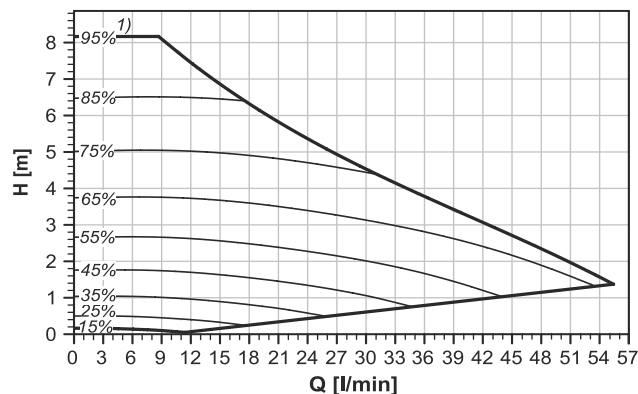
### Pump Station Internal Wiring



- L** live
- N** neutral
- RI, R** potential-free switching contact
- Vi** iPWM signal input
- GND PWM
- V** PWM signal output
- S3** sensor 3 (aux. heat.)
- S2** sensor 2 (sol. consumer)
- S1** sensor 1 (collector)

\* in pump station to connect switching heat source

### Pump Performance curves



NOTE:

- 1) PWM signal value in %,
- 2) speed in rpm