

1. Application

Constant temperature controller ACT 443 ProClick is designed for controlling the temperature of the medium behind the rotary mixing valve and pump. It can be used with 3- and 4-way rotary mixing valves. The controller allows to set the temperature from 10 to 90°C. Setting of temperature is done using buttons under the knob. Readable colour OLED display interface helps to control temperatures on the installation.



Fig.1. Constant temperature controller ACT 443 ProClick

2. Description

Constant temperature controller ACT 443 ProClick is integrated into the actuator housing. The controller is equipped with 2 temperature sensors, electric cable with plug and cable with electric connection cube to control the pump. Controller ACT 443 ProClick replaces two separate devices: the actuator and controller. Moreover the controller has a function to protect the boiler from cold water return.

Controller ACT 443 ProClick has an easy-to-use pushbutton which enables switching the controller from automatic to manual mode.

3. Technical data

Parameter	Value/description
Torque	6 Nm
Temperature range	10 ÷ 90°C
Rotation angle	90°
Time to rotate by 90°	120 s
Supply voltage	230 V AC
Ambient temperature range	10 ÷ 50°C
Power consumption	max 3 W
Protection degree	IP42
Dimensions (H x W x D)	85,5 x 97 x 99 mm
Weight	800 g
Operating mode	heating
Length of electric cable	2 m, with plug
Length of pump wire	0,5 m, with electric connection cube
Length of valve probe wire	1 m, with mounting set
Length of heating source probe wire	2 m with mounting set
Probe dimensions	10 x ø4 mm
Algorithm	PID

4. Most common applications

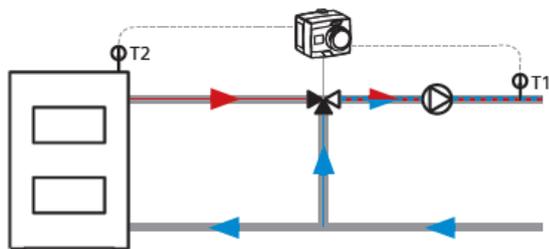


Fig. 2. Mixing two streams with different temperatures on the stand pipe

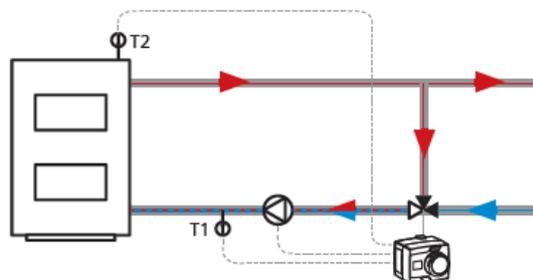


Fig. 3. Mixing two streams with different temperatures on the return pipe

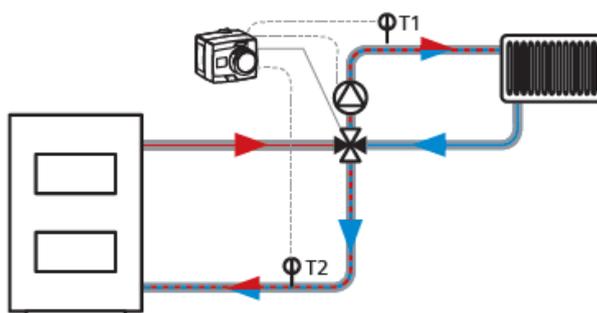


Fig. 4. Mixing two streams with increasing the returning water temperature simultaneously

5. Selection table

Art.-No.	Name / description
15 443 10	Constant temperature controller ACT 443 ProClick

6. Approvals and certificates

Constant temperature controllers ACT 443 ProClick are produced according to directives of the European Union regarding: low-voltage equipment LVD (2014/35/EU), electromagnetic compatibility EMC (2014/35/EU), restricting the use of hazardous substances RoHS (2011/65/EC + Annex II 2015/863/EC) and REACH directive 1907/2006/EC.

Constant temperature controllers ACT 443 ProClick comply also with following standards: PN-EN 60730-1:2011, PN-EN 60730-2-9:2010, PN-EN 60730-2-11:2008, PN-EN 61000-6-1:2007, PN-EN 61000-6-1, PN-EN 61000-6-3:2007 + EN6100-6-3:207/A1:2011.