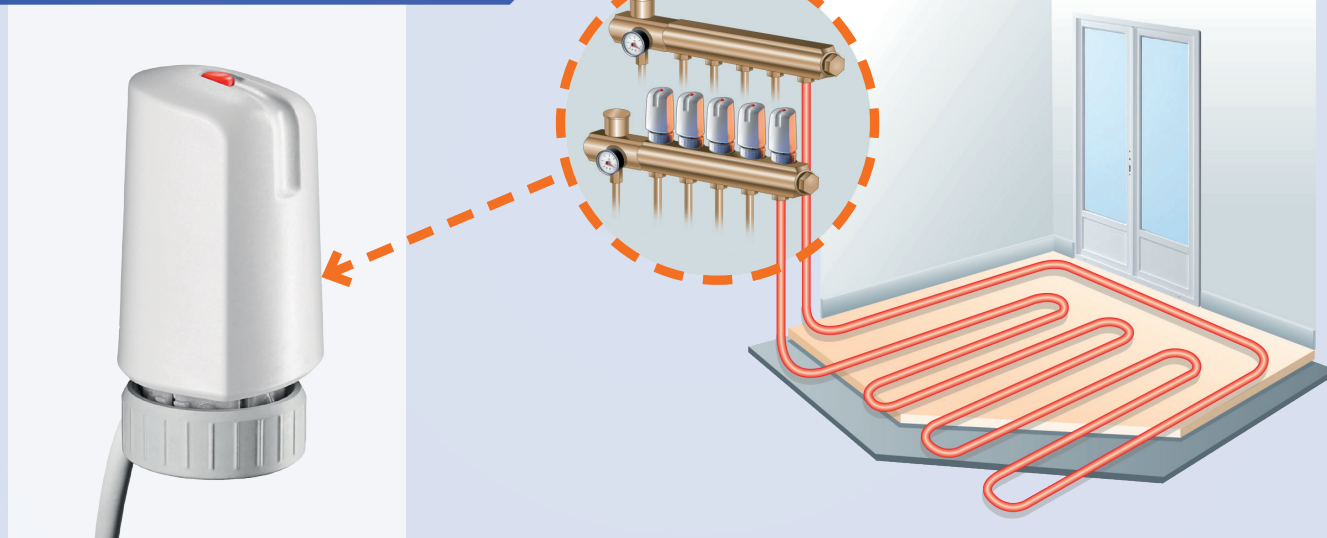


PRECISE AND RELIABLE
TEMPERATURE CONTROL



TECHNOLOGY & FEATURES

The **THERMAQUA® Actuators** guarantee precise and reliable temperature control with many advantageous features:

/ Easy to assemble with the 'First-Open' and 'Click' functions

The integrated **'First-Open'** function allows easy assembly of the THERMAQUA® Actuator. The lock maintains the actuator in an open position, allowing mounting to the valve with minimal effort. Upon commissioning, the lock is removed leaving the actuator ready for operation

'Click' function

Actuators can be optionally fitted with the click feature where upon assembly; the adapter is screwed onto the valve leaving the actuator locked in place



/ Silent operation

Feature of thermo-electric actuators

/ Operating position

Visual indicator confirms position

/ Tailored design

Valve adjustment to customer specifications

/ Functionality testing

Certification to VDE standards

/ Protection

According to EN60529 standard (for both IP40 and IP44)

/ Variable voltage

230/240V or 24V availability

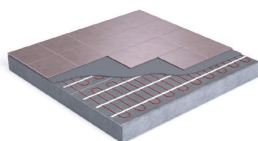
/ Energy saving

Low power consumption

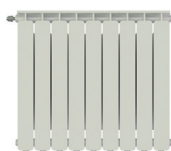
/ Long service life

Manufactured precision and quality control

APPLICATIONS



Underfloor, Wall and Ceiling Heating / Cooling Systems



Radiators



Valve Controls

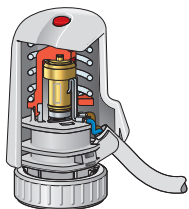
**& QUALITY
CERTIFICATIONS**

ISO 9001 : 2008

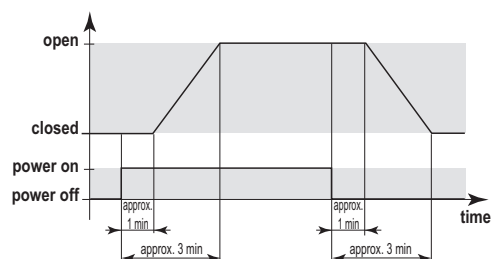
VDE

PRINCIPLES OF OPERATION

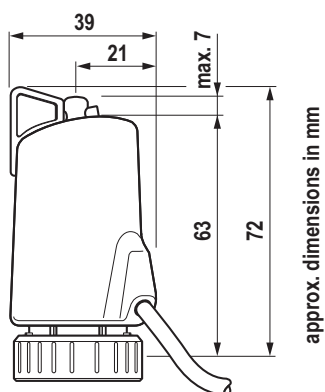
Designed for normally closed control valves, THERMAQUA® Actuators perform various control and regulation tasks as a two-step actuator (open/close). The wax element is heated electrically by the applied operating voltage and silently opens the valve.



Without any operating voltage the wax element is no longer heated and the actuator closes (see time-stroke diagram). THERMAQUA® Actuators also allow for instant functionality checks of the device.



DIMENSIONS (in mm)



TECHNICAL SPECIFICATIONS

Equipment	THERMAQUA® Actuator	
Volts	230V	24V
Drawing no.	X7.565_	X7.565_024
Inrush current short term	195 mA	740 mA
Constant current/power	9 mA/2 W	60 mA/2 W
Closing and opening times	approx. 3 min	approx. 3 min
Stroke	approx. 3,5 mm	approx. 3,5 mm
Spring force	90 N +20/-10%	90 N +20/-10%
Ambient temperature	max. 60°C	max. 60°C
Design		
Protection type according to EN60529	IP40	IP40
Housing	Polycarbonate	Polycarbonate
Connector	Polyamide	Polyamide
Weight (without union nut/adaptor)	approx. 86g	approx. 86g
Connecting cable	2 x 0,75 mm ² H05V V-F white length 600mm	2 x 0,75 mm ² H05V V-F white length 600mm
Humidity	from 10 to 90% non condensing	from 10 to 90% non condensing

Technical drawings are available on request