



TECHNICAL CATALOGUE















ITAP SpA, founded in Lumezzane (Brescia) in 1972, is currently one of the leading production companies in Italy of valves, fittings and distribution manifolds for plumbing and heating systems. Thanks to fully automated production processes, with 63 tooling machines and 25 assembly lines, we are able to produce 150,000 pieces per day. Our innate pursuit for innovation and observance of technical regulations in force is supported by the company certification ISO 9001: 2008. The company has always considered its focus on quality as the main tool to obtaining significant business results: today ITAP SpA is proud to offer products bearing the approval of numerous international certifying bodies.





ELECTROTHERMAL ACTUATOR

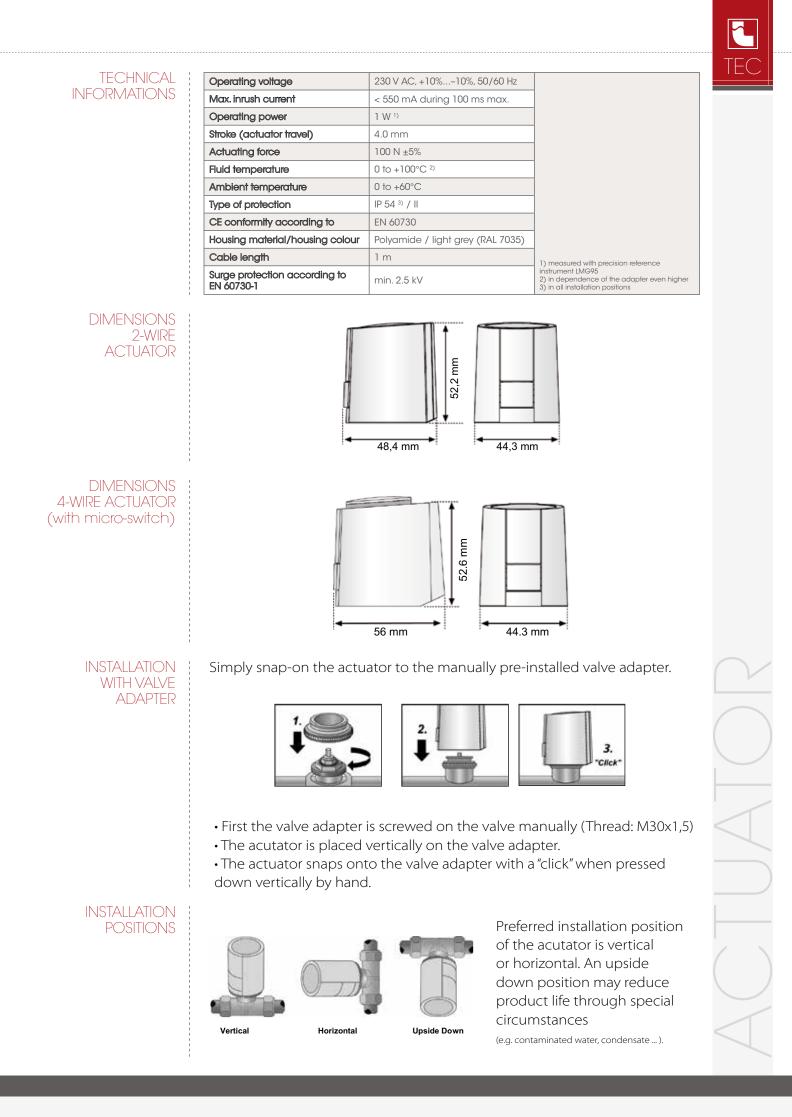
Actuator Art.891M is a thermoelectric valve drive for opening and closing valves on heating circuit distributors of concealed floor heating and cooling systems.

The main field of application is the energy-efficient individual room temperature control in the range of building management systems and home automation. Actuator Art.891M is controlled by a 230 V room thermostat with two point output.

891M	
ELECTROTHERMAL ACTUATOR	
	SIZE CODE PACKING
	230V-2wire 891M2302NC 1/64
	230V-4wire 891M2304NC 1/34
FEATURES	Suitable for convertible valves and pre-assembled manifols.
	Normally closed, on-off operation.
	Power supply voltage: 230V.
	Power consumption: 1W.
	Minimum and maximum working ambient temperatures: 0°C, 60°C. Maximum differential pressure: 1,5bar.
	Length of the power supply cable: m.1.
	Class of protection IP54.
	Available with 2 cables or 4 cables with an auxiliary microswitch.
	Capacity of the auxiliary connection: 300mA.
	CE marked.
	Opening and closing time ~ 3,5 min.
FUNCTIONS	The actuator mechanism of the actuator uses a PTC resistor-heated wax element and a compression spring. The wax element is heated by applying
	the operating voltage and moves the integrated ram. The force generated by
	the movement is transferred on the valve lifter and thus opens and closes th
	valve.
FUNCTION DISPLAY	The function display of the actuator (all-around display) allows identifying the
	operating condition (valve open or closed) at a glance.
	In case of the NC version, an extended function display shows opening of th
	valve.
	Power
FIRST-OPEN	In its delivery condition, the actuator is kept open when de-energised due
FUNCTION	to the First-Open function. This enables heating operation during the carcase
	construction phase even when the electric wiring is not yet complete.
	During the later electrical start-up, the First-Open function is unlocked by
	applying the operating voltage for more than 6 minutes. The actuator will then be completely operable.
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CERTIFICATIONS

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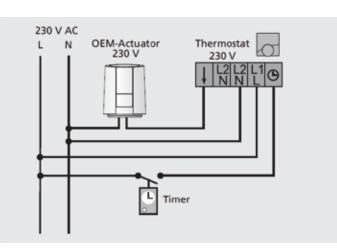


ELECTRICAL

INSTALLATION

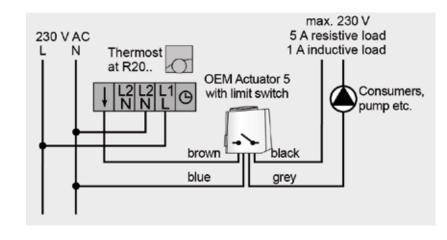
4-WIRE ACTUATOR

(with micro-switch)



We recommend usage of the following lines for installing a 230 V system:

Light plastic-sheathed cable NYM 1.5 mm² Flat webbed building wire NYIF 1.5 mm²



We recommend the following cables for installing a 230 V system:

Light plastic-sheathed cable: NYM 1.5 mm² Flat webbed building wire: NYIF 1.5 mm²



NOTES	
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We reserve the right to make improvements and changes to the products described herein and to the relative technical data, at any time and without forewarning.



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