

PRODUCT PREVIEW



ALL IN ONE
2P + 3P



RELAY
TECHNOLOGY



QR CODE FOR INFO
& TRACEABILITY




FOR MIXING
& DIVERTING



WIDE
COMPATIBILITY

NEW M03.4

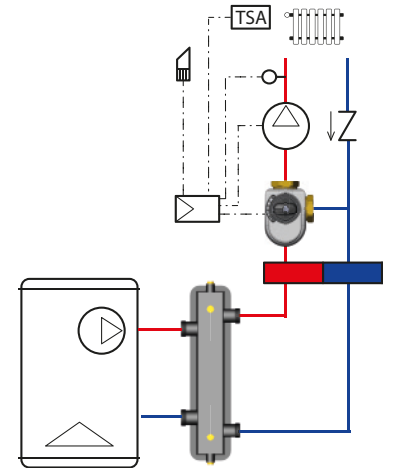
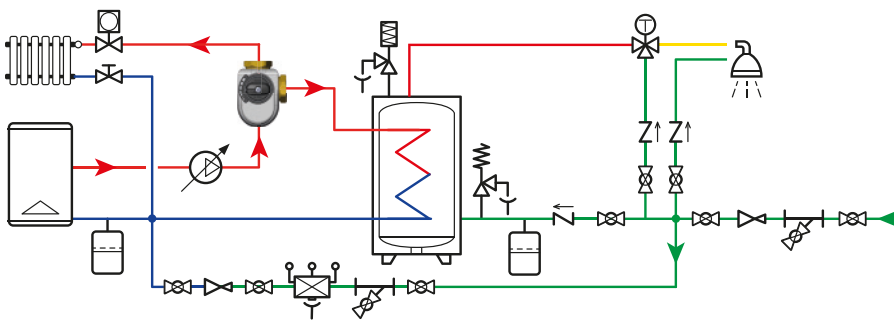
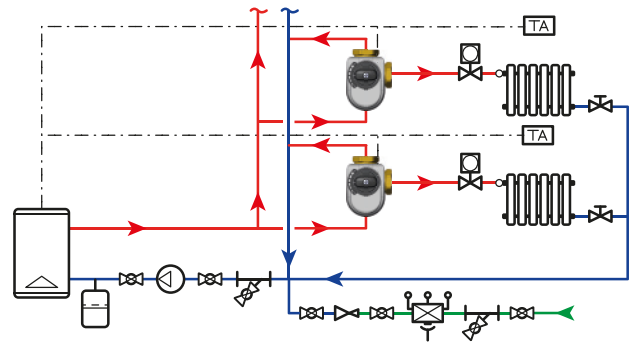
MULTIFUNCTION ACTUATOR

ALL-IN-ONE 
NEW KIT 460.1
VALVE + ACTUATOR



DESCRIPTION

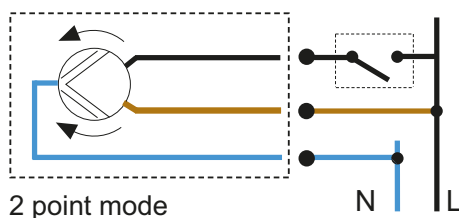
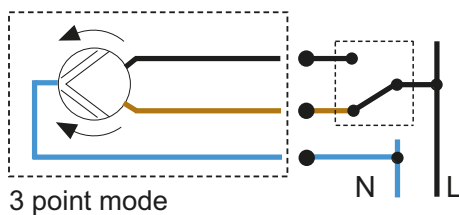
▶ The M03.4 multifunction actuator incorporates 3 and 2 point operating modes in one product. To select the operating mode, it's only necessary to connect the cables according to its respective wiring diagram, without any selector. It can be used in 3 point mode to motorize all the threaded 3- and 4-way mixing valves and all the motorizable regulating groups DN 20, DN 25 and DN 32. In 2 point mode it can be combined to all the 3-way threaded mixing valves to be used in on-off mode as diverting or zone valves. The actuator is equipped with internal relays that completely isolate it from electric noise or current peaks coming from the outside. The rotation angle is 90°/120 s. At the end of the rotation, the electric supply is cut off by the end microswitch. If necessary, by pressing the central knob, the actuator can be set to the manual mode: the operation unlocks the gear system and makes it possible to manually rotate the actuator and the connected valve. It can be connected, depending on the operating mode, to on-off devices (i.e. thermostats) or 3 point weather compensated controllers to regulate the temperature.



HIGHLIGHTS

2⇌1 ALL IN ONE: 3 & 2 POINTS, WITHOUT SELECTORS

To select the 3 or 2 point operating mode, it's only necessary to connect the actuator according to one of the two modes visible in the wiring diagram. There are no selectors: the actuator electronics automatically selects the operating mode depending on the wiring.



RELAY TECHNOLOGY

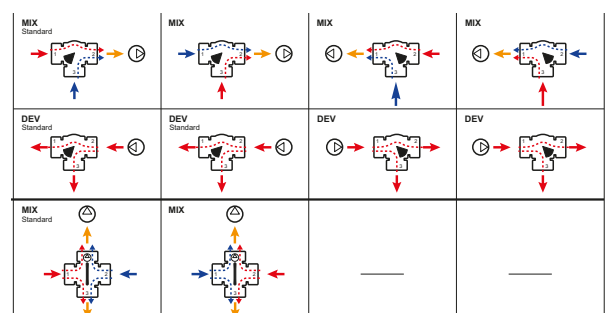
The electric contacts are protected by relay. In this way, the actuator is isolated from possible electric noise or current peaks which could arrive from outside, for example from the electric network, the controller or other devices installed in the system.

USE AS MIXING OR DIVERTING VALVE

3-way 460.1 valves and M03.4 actuator (installed on 3-way mixing valves) can be used as:

- **mixing valves (3 point):** 2 inlets, 1 outlet. We obtain the temperature regulation of the circuit downstream of the valve;
- **diverting valves used in adjustment mode (3 point):** 1 inlet, 2 outlets. By inverting the flow direction inside the valve (the unique fluid inlet is the port used as mixed water outlet in the mixing valve working mode) the regulation of the downstream circuit is obtained therefore by a flow rate variation;
- **diverting valves (2 point):** 2 inlets, 1 outlet (for example to connect two generators to the same system) or 1 inlet, 2 outlets (for example as priority valve to connect the boiler to the heating system or to the domestic water storage).

4-way valves, combined to the M03.4 actuator, can be used only as mixing valves.



QR CODE

On the actuator side, the QR code provides technical information and traceability data about the product.

WIDE COMPATIBILITY

The M03.4 actuator can be used on all the motorizable DN 20-25-32 groups and all the threaded 3- and 4-way mixing valves.

PRODUCT CATALOGUE

460.1

New

3-way mixing valve with double regulation 3 and 2 point actuator with integrated relay. Female connections. Actuator: rotation angle 90°, blocking screw, valve adaptor, anti-rotation pin, 1,5 m integrated cable.

Max working temperature: **110 °C**

Max working pressure: **10 bar**

Torque: **10 N-m**

Supply: **230 V**

Protection class: **IP 44**

Frequency: **50 Hz**

Power consumption: **4 VA**



Code	Size	Kv	Running time [s]	Nr. poles		
460 015 01M N NEW	Rp 1/2	1,6	120	3	1	5
460 015 01M A NEW	Rp 1/2	2,5	120	3	1	5
460 020 01M B NEW	Rp 3/4	4	120	3	1	5
460 020 01M C NEW	Rp 3/4	6	120	3	1	5
460 025 01M D NEW	Rp 1	8	120	3	1	5
460 025 01M E NEW	Rp 1	12	120	3	1	5
460 032 01M F NEW	Rp 1 1/4	15	120	3	1	5
460 032 01M G NEW	Rp 1 1/4	18	120	3	1	5

M03.4

New

Actuator for mixing valves with double regulation 3 and 2 points and integrated relay. Rotation angle 90°. Complete with blocking screw, valve adaptor, anti-rotation pin, 1,5 m integrated cable.

Torque: **10 N-m**

Protection class: **IP 44**

Frequency: **50 Hz**

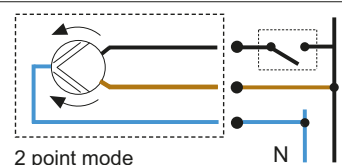
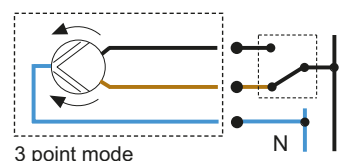
Power consumption: **4 VA**

Aux. microswitch contact rating: **6 (1) A**



Code	V	Running time [s]	Nr. poles	Cable [m]		
M03 010 1RA B NEW	230	120	3	1,5	1	16

M03.4: wiring diagram for 3 point and 2 point mode



To select the 3 or 2 point operating mode, it's only necessary to connect the cables according to its respective wiring diagram.



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THERMOSTATIC MIXING VALVES
B1



ROTARY MIXING VALVES AND ACTUATORS
B2



REGULATING GROUPS AND HEATING COMPONENTS
B3



COMPONENTS FOR SOLAR THERMAL SYSTEMS
B4



ZONE AND DIVERTING VALVES
B5



AIR VENTS AND DEAERATORS
B6



CHECK VALVES AND FOOT VALVES
B7



FILTERS AND DIRT SEPARATORS
B8



BALL SHUT-OFF VALVES AND COCKS
B9



MONOBLOCKS
B10



FITTINGS
B11

BARBERI WORLD

MORE THAN REAL

Our products are the visual representation of our mission: satisfying the demands of distributors and installers alike.

Even today, after 65 years, our extensive range of valves and components for heating and hot water systems continues to innovate and modernise.