



FIRST actuators MV 120, series EUROMIX, are 3-point actuators designed for operating 3-way and 4-way rotary valves with quick fit system (DN 15 - DN 32).

- The FIRST EUROMIX actuators have defined direction of rotation (90° rotating angle).
- Actuators are available with cable connection and manual control.
- Recommended for mixing applications.

## OPERATION

EUROMIX is an electric actuator designed for operating 3-way and 4-way rotary mixing valves. Actuators are controlled by 3-point SPDT signal. FIRST EUROMIX actuators allow high regulating accuracy and easy installation with quick fit system.

Actuators are available in 230 or 24 V AC 50 Hz and are supplied with a 2m attached connection cable. Actuator can be manually operated with button on the cover.

EUROMIX actuators are recommended for mixing applications with FMV 130, FMV 140 valves from DN15 to DN 32 and FMV H-151 valves. Quick and simple assembly of the actuator and valve with quick fit system. Actuator can be optionally fixed to the valve with additional screw.

## MAINTENANCE

Actuator requires no maintenance. The installation of suitable strainer is recommended.

## TECHNICAL DATA: ACTUATOR

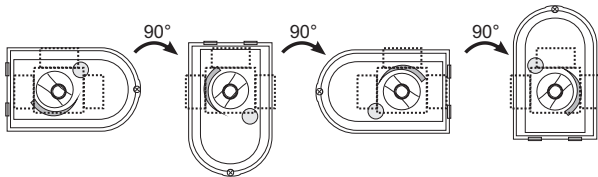
Control:	3-point SPDT
Supply voltage:	230 VAC 50Hz / 24 VAC 50Hz
Rotation time:	105s/90°, 210s/90°
Power consumption:	3,5 VA (operation), 0 VA (stand by)
Max.Torque:	8 Nm
Protection class:	II
Enclosure rating:	IP44 (Cable connection),
Connection:	cable 2 m, 3 x 0,75 mm <sup>2</sup>
Direction of rotation:	defined 90° angle
Manual operation:	knob on the actuator cover
Position indicator:	mechanical, on the actuator cover
Media temperature:	+2°C..+110°C
Ambient temperature:	0°C..+55°C
Storage temperature:	-10°C..+70°C
Humidity:	0%..80% R.H. (non condensed)



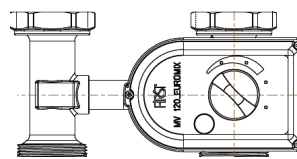
In accordance with PED, LVD, RoHS2, EMC

## INSTALLATION POSITION

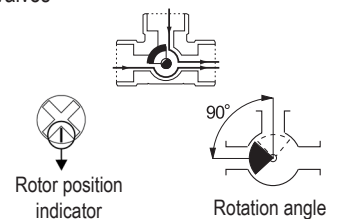
Actuator can be rotated on the valve body to fit different installation layouts. EUROMIX actuator with FMV 130 valves for mixing applications.



EUROMIX actuator with FMV H-151 valves for mixing applications

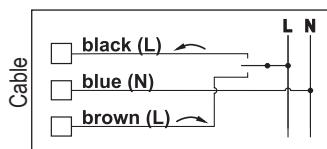


MIXING APPLICATION



## ELECTRICAL CONNECTION

3-point control SPDT.



## SUITABLE VALVES

FMV 130



Available as rotary unit:  
EUROMIX

FMV 140



FMV H-151



Available as rotary unit:  
EUROMIX-H

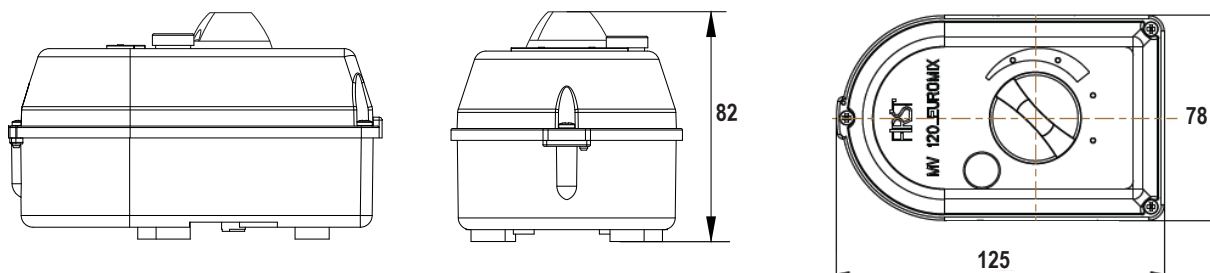
## QUICK FIT SYSTEM

Compact design of the valve allows for easy tool access when assembling and disassembling the valve. Quick fit system allows for easy installation of the actuator on the valve body.



### EUROMIX

actuator with manual control- MV120..510/540

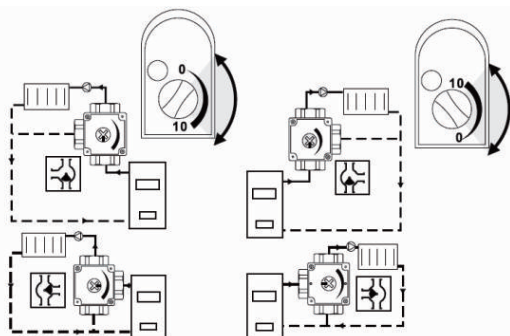


### EUROMIX, for 3-way and 4-way rotary mixing valves (90° rotation)

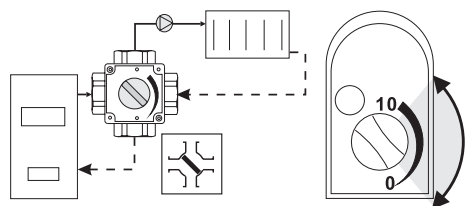
Code	Type	Voltage	Rotation time	Control signal	Connection	Max. torque [Nm]	Weight [kg]	Price (€)
10047	MV120..510 EUROMIX	230 VAC 50 Hz	105s/90°	3-point SPDT	Cable	8	0,64	
10046	MV120..540 EUROMIX	230 VAC 50 Hz	210s/90°	3-point SPDT	Cable	8	0,64	
10168	MV120..543 EUROMIX	24 VAC 50 Hz	210s/90°	3-point SPDT	Cable	8	0,64	

#### Installation examples

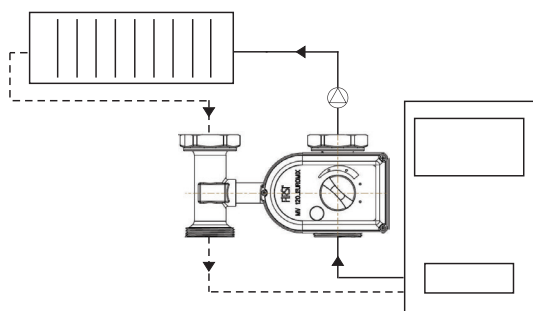
1. EUROMIX actuator with FMV 130 valve installation example.



2. EUROMIX actuator with FMV 140 valve installation example.



3. EUROMIX actuator with FMV H-151 valve installation example.



#### Features and options

- **Power supply:** 230V 50Hz or 24V 50Hz
- **Different running times:** 105s/90°, 210s/90°.
- **Modulation control:** FMV mixing valves can also be fitted with COMP MOD actuator which features 1-10 V or 4-20mA modulation control.