

# COMP-MOD

## FIRST ELECTRIC ACTUATORS MV120 WITH MODULATING CONTROL SIGNAL

with Quick fit system for 3-way and 4-way rotary valves

# FIRST®

MODULATING CONTROL		0 - 10 V DC 4 - 20 mA
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FIRST actuators MV120, series COMP-MOD, are modulating control actuators designed for operating 3-way and 4-way rotary valves with quick fit system (DN 15 - DN 32).

- The FIRST COMP-MOD actuators have control signal (0-10VDC, 4-20 mA)
- Actuators are available with cable connection and manual control handle.
- Actuators have DIP switches for setting different functions of the actuator.
- Recommended for mixing applications.

### OPERATION

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

Actuators are available in 24 V AC 50 Hz and are supplied with a 1m attached connection cable. Actuator can be manually operated with button on the cover. Actuator can be optionally fixed to the valve with additional screw.

COMP-MOD actuators are recommended for mixing applications with FMV 130 valves, FMV 140 valves from DN 15 to DN 32 and FMV H-151 valves.

### MAINTENANCE

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

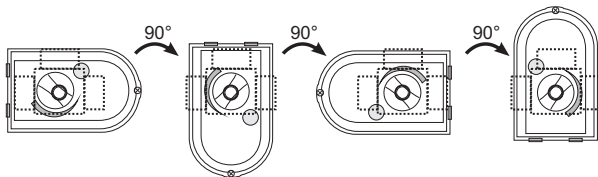
### TECHNICAL DATA: ACTUATOR

Control:	0...10 VDC, 4...20 mA
Output signal:	0... 10 VDC, max < 0,5 mA/ 10V
Supply voltage:	24 VAC , 50Hz
Rotation time:	105s/90°
Power consumption:	3,5 VA (operation), 1,5 VA ( in stand by)
Max.Torque:	8 Nm
Protection class:	II
Enclosure rating:	IP44 (Cable connection),
Connection:	Cable 4 x 0,5 mm <sup>2</sup> l=1m
Direction of rotation:	defined CW/CCW (90°)
Manual control:	With manual control handle
Position indicator:	handle with position indicator
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)

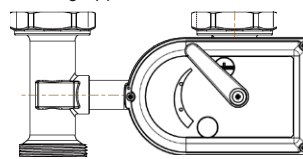
### INSTALLATION POSITION

Actuator can be rotated on the valve body to fit different installation layouts.

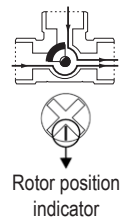
COMP-MOD actuator with FMV 130 valves for mixing applications.



COMP-MOD actuator with FMV H-151 valves for mixing applications.



MIXING APPLICATION



### ELECTRICAL CONNECTION

#### CABEL CONNECTION

<input type="checkbox"/> brown	SUPPLY:
<input type="checkbox"/> black-GND	24VAC +10/-15% / 50Hz
<input type="checkbox"/> blue	- Y signal (+) INPUT 0-10VDC
<input type="checkbox"/> red	- X signal OUTPUT 0-20mA
<input type="checkbox"/>	0-10VDC

DIP SWITCHES; for setting different functions of the actuator.

Factory default	ON	1	CCW ↺ + calibration
		2	↙
		3,4	Y= 0-10V
		5	U (V)

At calibration proces actuator turns into left and right position. During proces leave the button for manual control in position AUTO!

### SUITABLE VALVES

FMV 130



FMV 140



FMV H-151



### 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.

CE In accordance with PED, LVD, RoHS2, EMC



# FIRST®

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Let First be your first choice.



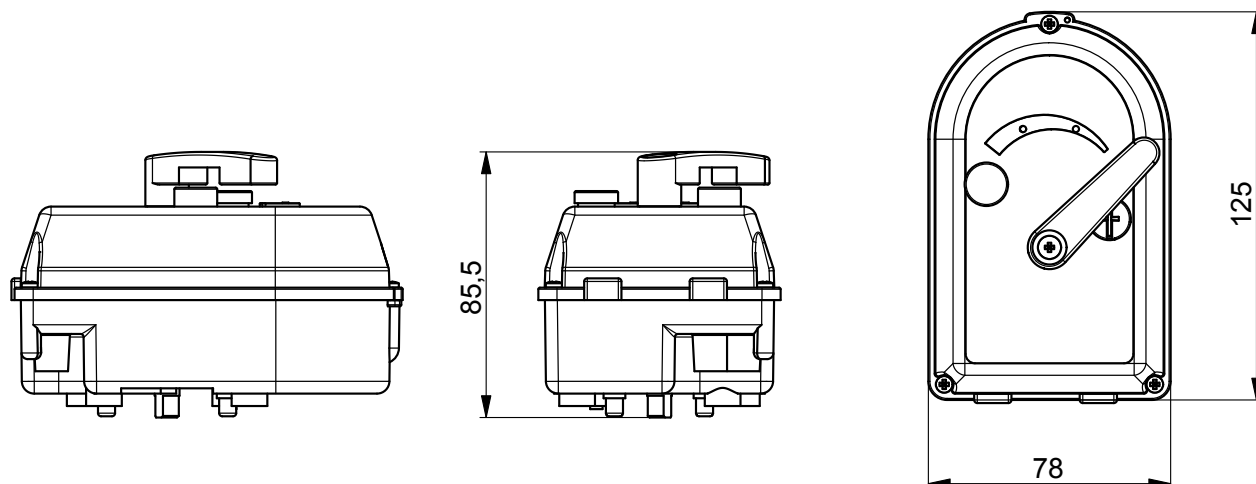
# COMP-MOD

## FIRST ELECTRIC ACTUATORS MV120 WITH MODULATING CONTROL SIGNAL

with quick fit system for 3-way and 4 way rotary valves

### COMP-MOD

actuator with manual control- MV120..4417

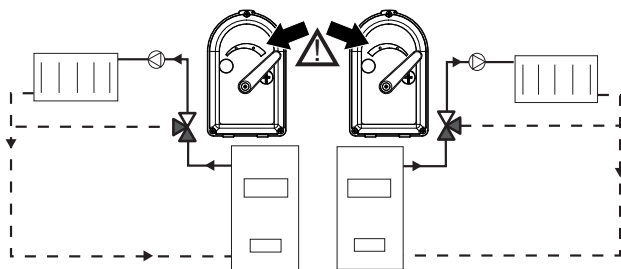


**COMP-MOD**, for 3-way and 4-way rotary mixing valves (90° rotation)

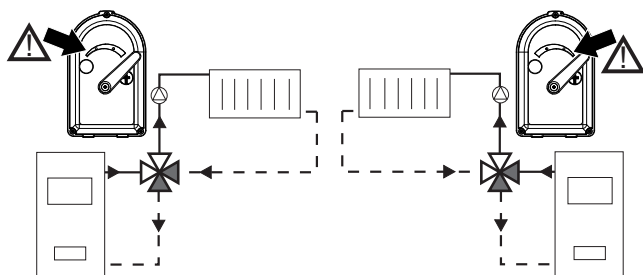
Code	Type	Voltage	Rotation time	Control signal	Connection	Max. torque [Nm]	Weight [kg]	Price (€)
12118	MV120..4417	24VAC~ 50 Hz	105s/90°	Modulating 0-10V	Cable	8	0,64	

#### Installation examples

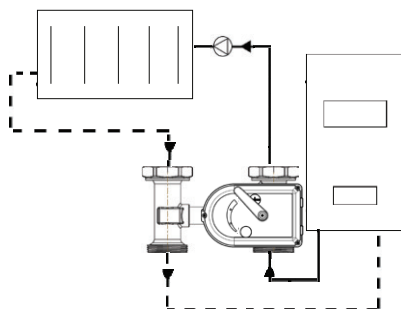
1. COMP-MOD actuator with FMV 130 valve installation example.



2. COMP-MOD actuator with FMV 140 valve installation example.



3. COMP-MOD actuator with FMV H-151 valve installation example.



#### Features and options

- **Different running times:** 105s/90°, 210s/90°.
- **DIP switches:** Actuators have DIP switches for setting different functions of the actuator.