

# UNI - MOD X

## FIRST MODULATING VALVE ACTUATOR

for 2-way, 3-way and 4-way valves

FIRST®



ISO 5211

CLIP SYSTEM

QUICK FIT SYSTEM

EURONORM AXLE SYSTEM

FLEXIBLE HOLDER SYSTEM



FIRST actuators, series UNI, are modulating actuators designed for operating 2, 3 and 4-way valves (DN 15 - DN 50).

- The FIRST UNI MOD X actuators have defined direction of rotation (90° rotating angle).
- Actuators are available with cable connection with manual control handle, and are recommended for mixing applications.
- Actuators are equipped with adapters for mounting on various First valves and on other manufacturers of valves.

### OPERATION

UNI - MOD X is an electric actuator designed for operating 2,3 and 4-way valves. Actuators are controlled by modulating signal 0-10V. Actuators have output signal. FIRST UNI-MOD X actuators allow high regulating accuracy and easy installation with different mounting systems.

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

Actuators UNI- MOD X are recommended for mixing or diverting applications with FMV 130 / 130C, FMV 140 / 140C, FMV H-151 / H-151C valves and FMV G-130 / G-140 valves. Actuators can also be used with 2-way FBV 600, FBV 200C, FBV 200C-M and 3-way FBV 230C valves. It also can be assembled on 2-way and 3-way ISO 5211 valves.

It is also equipped with mounting kits for assembling on mixing valves of other manufacturers: ESBE, LK, BARBERI, FEROTHERM, PAW, DANFOSS, BESSER, SELTRON, LOVATO, TUXHORN, STRAWA, IVAR, HONEYWELL.

### MAINTENANCE

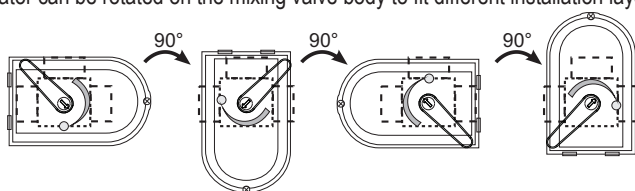
Actuator requires no maintenance. The installation of suitable strainer is recommended.

### TECHNICAL DATA: ACTUATOR

Control:	0 - 10V
Supply voltage:	24 VAC 50Hz
Rotation time:	48s/90°, 73s/90°, 147s/90°.
Power consumption:	3,5 VA (operation), 1,5 VA (stand by)
Max.Torque:	15 Nm
Protection class:	II
Enclosure rating:	IP44
Connection:	cable 1 m, 4 x 0,5 mm <sup>2</sup>
Direction of rotation:	defined 90° angle
Manual operation:	handle and push button
Position indicator:	handle with position indicator
Media temperature:	+2°C..+110°C (With optional SCA adaptor -15°C to +125°C, briefly up to +150°C)
Ambient temperature:	0°C..+55°C
Storage temperature:	-10°C..+70°C
Humidity:	0%..80% R.H. (non condensed)

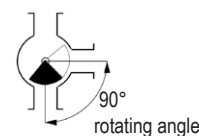
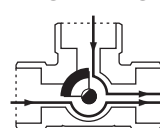
### INSTALLATION POSITION

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



UNI - MOD X actuator with FMV 130C valves for mixing applications.

### MIXING APPLICATION



### ELECTRICAL CONNECTION

#### Modulating signal 0-10V

Cable	SP	brown	SUPPLY:
	SN	black-GND	24VAC +10/-15% / 50Hz
	Y	blue - Y signal (+)	INPUT 0-10VDC
	X	red - X signal OUTPUT	0-10VDC

#### DIP SWITCHES; for setting different functions of the actuator.

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

### SUITABLE VALVES

FMV 130C



FMV 130



FMV H-151C



FMV H-151



FMV 140C



FMV 140



FMV G-130



FDV G-141



FBV 200C



FBV 200C-M



FBV 230C



ISO 5211



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Let First be your first choice.

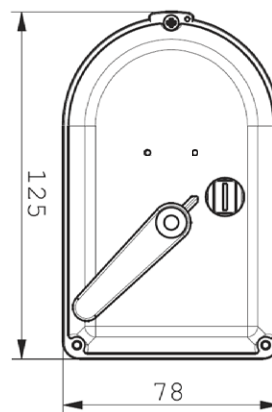
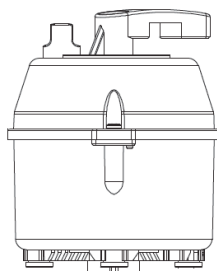
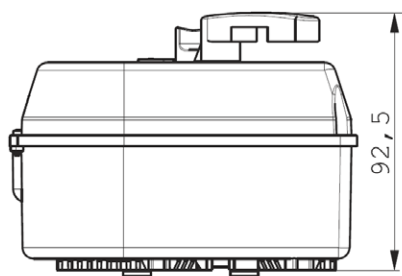


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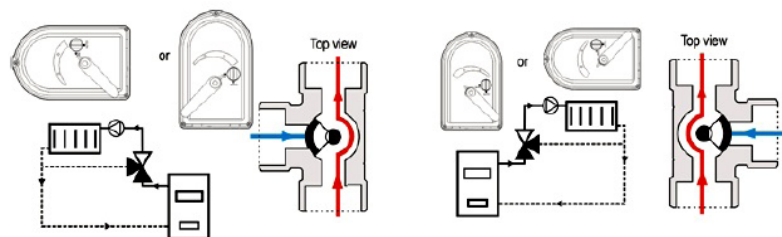


**UNI - MOD X**, for 2, 3 and 4-way valves (90° rotation)

Code	Type	Voltage	Rotation time	Control signal	Connection	Max. torque [Nm]	Weight [kg]	Price (€)
12585	UNI MOD X 20487	24 VAC 50 Hz	48s/90°	Modulating 0-10V	Cable	15	0,68	
12509	UNI MOD X 20737	24 VAC 50 Hz	73s/90°	Modulating 0-10V	Cable	15	0,68	
12504	UNI MOD X 21477	24 VAC 50 Hz	147s/90°	Modulating 0-10V	Cable	15	0,68	

#### Installation examples

**UNI - MOD X** actuator with **FMV 130 / 130C** valves.



#### Features and options

- **Power supply:** 24V 50Hz
- **Different running times:** 48s/90°, 73s/90°, 147s/90°.
- **Output signal:** 0-10V, max < 0,5 mA/10V
- **Solar/cooling adapter:** Heat barrier for protection of the actuator in solar or cooling systems.
- **Adapter kits:** Clip system / Euronorm axle system / Quick fit system / ISO 5211 / Flexible holder system

#### Adapter kits

Clip system		Euronorm axle system		Quick fit system		ISO 5211 system		Flexible holder system	
Code	Type	Code	Type	Code	Type	Code	Type	Code	Type
58039	Adapter set Clip	58043	Adapter set Clip-Mix	58034	Adapter set Euronorm	20060	Adapter set Quick fit system	58021	Adapter set ISO
								58000	Adapter set Flexible holder system

