

S9000 - MOD X MIX

FIRST ELECTRIC ACTUATORS EMV 110 WITH MODULATING CONTROL SIGNAL
with Clip system for 3-way and 4-way rotary valves



MODULATING CONTROL		0 - 10 V DC 4 - 20 mA
--------------------	--	--------------------------



FIRST actuators EMV 110, series S9000-MOD X MIX, are modulating control actuators designed for operating 3-way and 4-way rotary valves with clip system (DN 15 - DN 32).

- The FIRST S9000-MOD X MIX actuators have control signal range (0-10VDC, 4..20mA) and output signal 0..10VDC.
- Actuators are available with cable or Molex connection with or without manual control handle.
- Actuators have DIP switches for setting different functions of the actuator.
- Recommended for mixing and diverting applications.

OPERATION

S9000-MOD X MIX is an electric actuator designed for operating 3-way and 4-way rotary valves. Actuators are controlled by modulating signal. FIRST S9000-MOD X MIX actuators allow high regulating accuracy and easy installation with one-click CLIP system.

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

Actuators S9FR7-MOD X MIX are recommended for mixing or diverting applications with FMV 130C and FMV 140C valves from DN15 to DN 32 and for mixing applications with FMV H-151C valves.

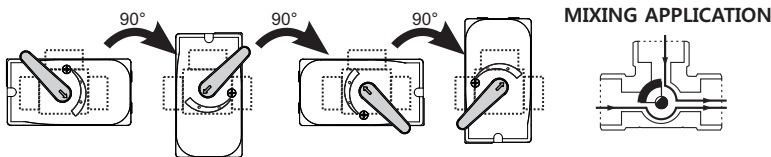
MAINTENANCE

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

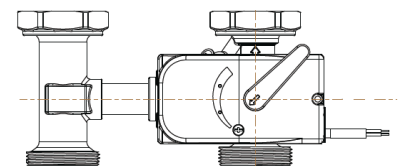
INSTALLATION POSITION

Actuator can be rotated on the valve body to fit a number of installation layouts.

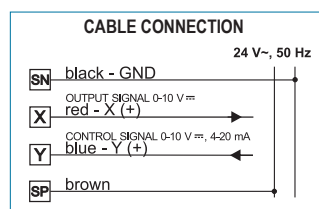
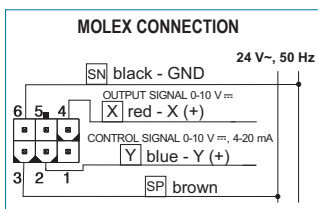
S9FR7-MOD X MIX with FMV 130C valves for mixing applications.



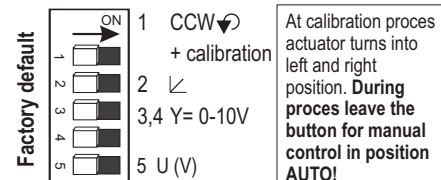
S9FR7-MOD X MIX with FMV H-151C for mixing applications.



ELECTRICAL CONNECTION



DIP SWITCHES; for setting different functions of the actuator.



SUITABLE VALVES

FMV 130C



FMV H-151C



FMV 140C



CLIP SYSTEM

Compact design of the valve allows easy assembling and disassembling. Clip system allows easy installation of the actuator on the valve body with single click, without any tools.



CE In accordance with PED, LVD, RoHS2, EMC



FIRST d.o.o.
Koroška cesta 56
SI-3320 Velenje
SLOVENIA

phone: +386 3 898 35 00
fax: +386 3 898 35 35
email: info@first.si
web: www.first.si

www.first.si
Let First be your first choice.



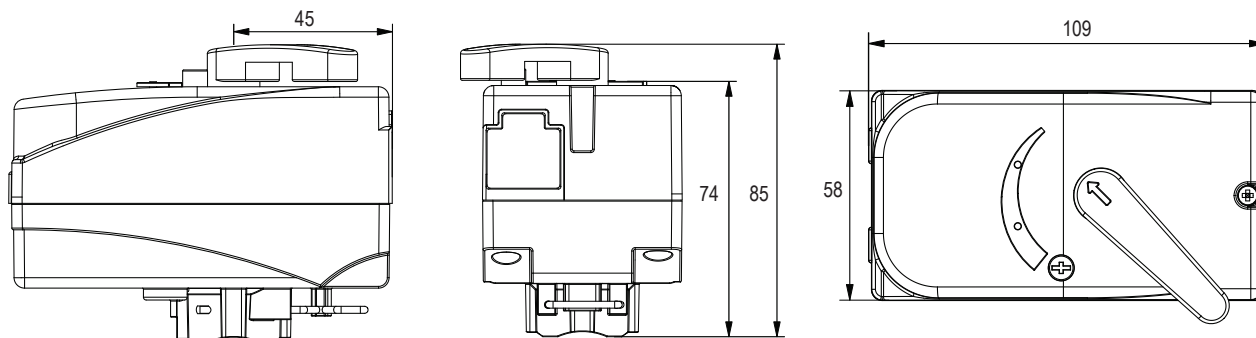
S9000 - MOD X MIX

FIRŠT ELECTRIC ACTUATORS EMV 110 WITH MODULATING CONTROL SIGNAL

with Clip system for 3-way and 4-way rotary valves

S9000-MOD X MIX,

actuator with manual control handle - S9FR7

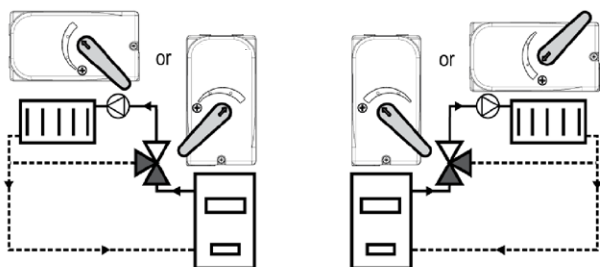


S9000-MOD X MIX, for 3-way and 4-way rotary valves (90° rotation)

Code	Type	Voltage	Rotation time	Control signal	Max. torque [Nm]	Weight [kg]	Price (€)
14140	S9FR7-M MOD X MIX	24V ~ 50 Hz	110s/90°	Modulating 0-10 V	5	0,33	
14402	S9FR7-K MOD X MIX	24V ~ 50 Hz	110s/90°	Modulating 0-10 V	5	0,48	

Installation examples

Actuator S9FR7 with FMV 130C valves (mixing applications).



Features and options

- **Connection:** Molex connector (IP40) and optional specially sealed Molex cable (IP44) or cable - (IP44).
- **Different running times:** 20s/90°, 40s/90°, 55s/90°, 80s/90°, 110s/90°.
- **Manual control handle:** with or without manual control handle.
- **Solar/cooling adapter:** Heat barrier for protection of the actuator in solar or cooling systems.

DIFFERENT OPTIONS

- Solar/ cooling adapter.



- Special Molex IP44 connector



- Without manual control handle



- With cable connection

