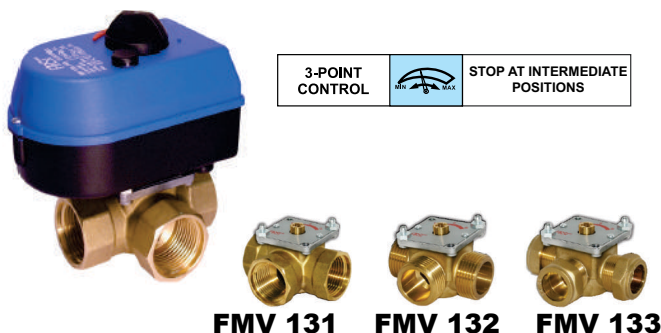


# EUROMIX

## MIXING UNIT

3-way rotary brass valves with electric actuator EUROMIX

# FIRST®



Valves are available in DN 15 – DN 32, with internal or external thread or compression fittings and are rated PN10.

- EUROMIX actuators with FIRST FMV 131, 132 and 133 valves are designed for use in radiator, floor or remote heating systems and other small and medium sized heating or cooling systems.
- Three types of connections are available: internal thread (FMV 131), external thread (FMV132) and compression fittings (FMV 133).

### OPERATION

EUROMIX is an electric motor actuator designed for operating rotary mixing valves (FMV 131, FMV 132, FMV 133). Actuators are controlled by 3-point signal. EUROMIX units can be manually operated.

Valves are suitable for long-lasting operations because of special sealing construction. Small rotation torque reduces possibility of valve blocking. Quick and simple assembly of the actuator and valve with push-pull system. Actuator can be optionally fixed to the valve with additional screw.

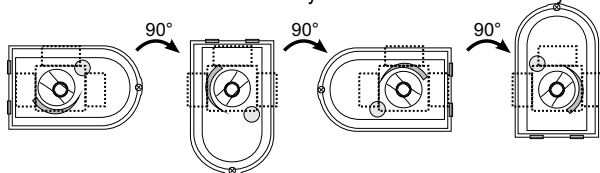
Valves can be used for mixing or diverting applications.

### MAINTENANCE

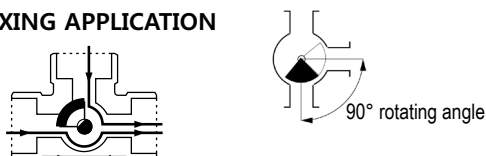
Valve requires no maintenance. The installation of suitable strainer is recommended.

### INSTALLATION POSITIONS

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



### MIXING APPLICATION



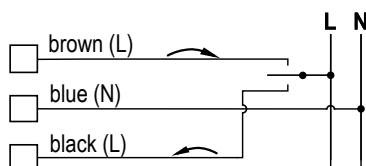
### QUICK FIT SYSTEM

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



### ELECTRICAL CONNECTION

3-point control SPDT



### TECHNICAL DATA: VALVES

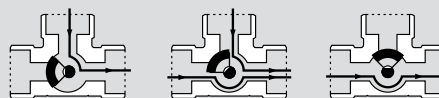
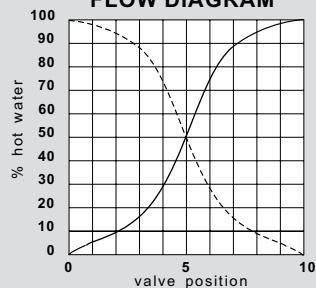
Pressure class:	PN 10
Medium:	water, glycol < 50% water quality as per VDI 2035
Media temperature:	min. +2°C max. +110°C
Leakage ( $\Delta p=1$ bar):	max. 0,1% Kvs
Max. diff. pressure:	1 bar
Connections:	Rp internal thread (EN 10226-1) G external thread (ISO 228-1) compression fittings (EN 1254-2)

### Material

Valve body:	Brass, CW617N
Shaft and rotor:	Brass, CW617N
Bushing:	PTFE
O-Rings:	EPDM,FKM

### FLOW DIAGRAM

#### FLOW DIAGRAM

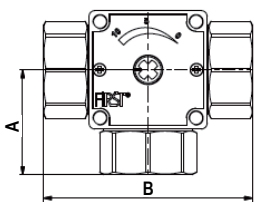


### TECHNICAL DATA: ACTUATOR

Control:	3-point SPDT
Supply voltage:	230V~50Hz
Rotation time:	105s/90°
Power consumption:	3,5VA
Max. Torque:	8Nm
Protection class:	II
Enclosure rating:	IP44
Connection cable:	3 x 0,5 mm <sup>2</sup> , l= 2m
Direction of rotation:	defined
Manual control:	knob on actuator cover
Position indicator:	mechanical, on the actuator cover
Ambient temperature:	0°C..+55°C
Storage temperature:	-10°C..+70°C
Humidity:	0%..80% R.h. (non condensed)

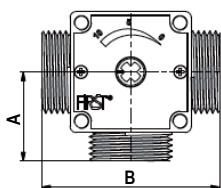
### FMV 131

internal threads



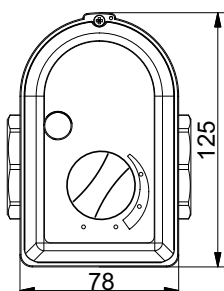
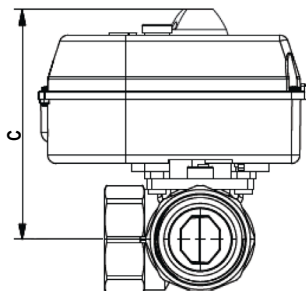
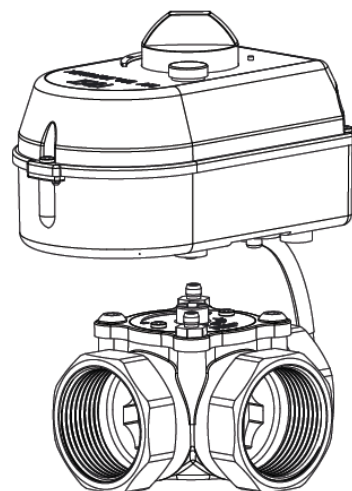
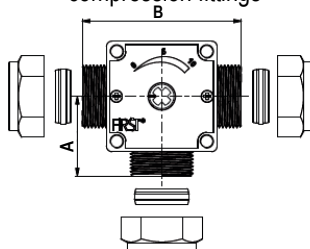
### FMV 132

external threads



### FMV 133

compression fittings



### EUROMIX 131, internal threads

Code	Type	DN	Kvs	Voltage	Rotation time	Control	Connection	A	B	C	Weight [kg]	Price (€)
11082	EUROMIX 131 DN15 Rp 1/2"	15	3	230V~50Hz	105s/90°	3P	Rp 1/2"	36	72	102	1,05	
11083	EUROMIX 131 DN20 Rp 3/4"	20	7	230V~50Hz	105s/90°	3P	Rp 3/4"	36	72	102	1,11	
11084	EUROMIX 131 DN25 Rp1"	25	11	230V~50Hz	105s/90°	3P	Rp 1"	41	82	102	1,15	
11085	EUROMIX 131 DN32 Rp1 1/4"	32	15	230V~50Hz	105s/90°	3P	Rp 1 1/4"	47	94	108	1,48	

### EUROMIX 132, external threads

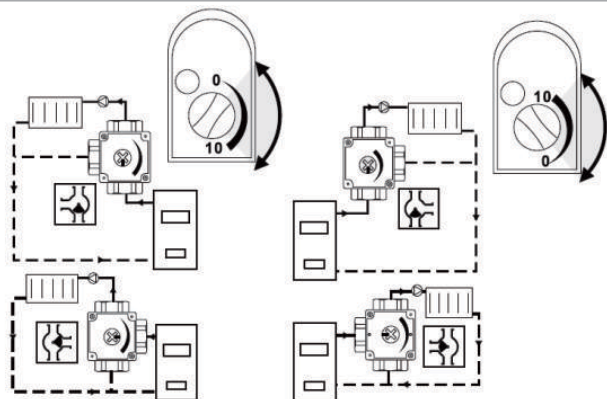
Code	Type	DN	Kvs	Voltage	Rotation time	Control	Connection	A	B	C	Weight [kg]	Price (€)
11086	EUROMIX 132 DN15 G 3/4"	15	3	230V~50Hz	105s/90°	3P	G 3/4"	36	72	102	1,03	
11087	EUROMIX 132 DN20 G1"	20	7	230V~50Hz	105s/90°	3P	G 1"	36	72	102	1,07	
11088	EUROMIX 132 DN25 G1 1/4"	25	11	230V~50Hz	105s/90°	3P	G 1 1/4"	41	82	102	1,22	
*11089	EUROMIX 132 DN32 G1 1/2"	32	15	230V~50Hz	105s/90°	3P	G 1 1/2"	47	94	108	1,44	

### EUROMIX 133, compression fittings

Code	Type	DN	Kvs	Voltage	Rotation time	Control	Connection	A	B	C	Weight [kg]	Price (€)
11090	EUROMIX 133 DN20 C22mm	20	7	230V~50Hz	105s/90°	3P	22mm	36	72	102	1,05	
11091	EUROMIX 133 DN25 C28mm	25	11	230V~50Hz	105s/90°	3P	28mm	41	82	102	1,11	

\* Units are available on special request.

#### Installation examples



#### Features and options

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

**CE** In accordance with PED, LVD, RoHS2, EMC