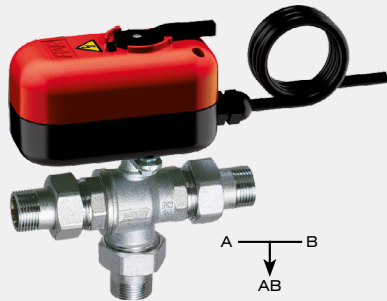


ART. 301020 (230V)
ART. 301120 (24V)



Chrome-plated 3-way mixing zone control ball valve equipped with unions, nuts and 3-point actuator.

- Connections: male-male
- Full bore flow

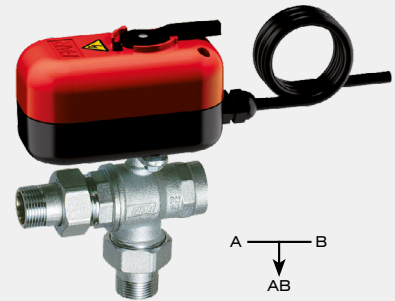
ART. 301021 (230V)
ART. 301121 (24V)



Chrome-plated 3-way mixing zone control ball valve equipped with 3-point actuator.

- Connections: female-female
- Full bore flow

ART. 301022 (230V)
ART. 301122 (24V)



Chrome-plated 3-way mixing zone control ball valve equipped with 3-point actuator.

- Connections: male-female
- Full bore flow

1 DESCRIPTION

The actuator, incorporating an appropriate servomotor, permits automatic operation of a mixing valve. It operates in response to a signal coming from a temperature control unit.

Through the position indicator on the actuator, it is possible to know the valve position and if necessary manually change the orientation.

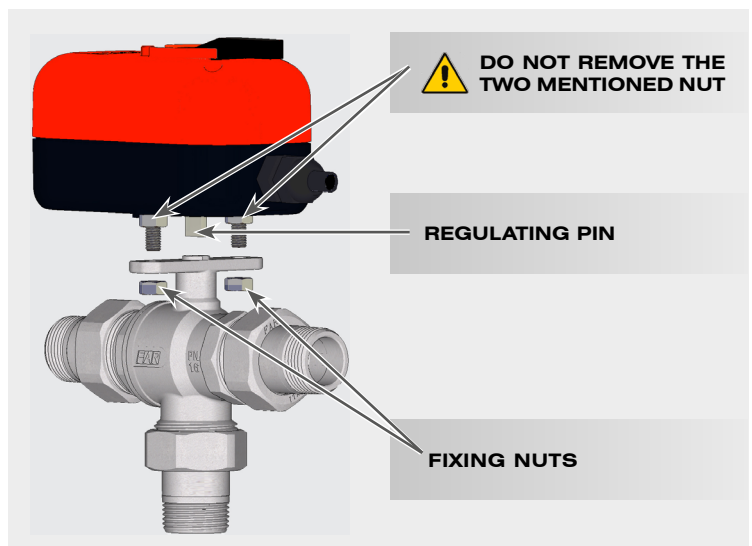
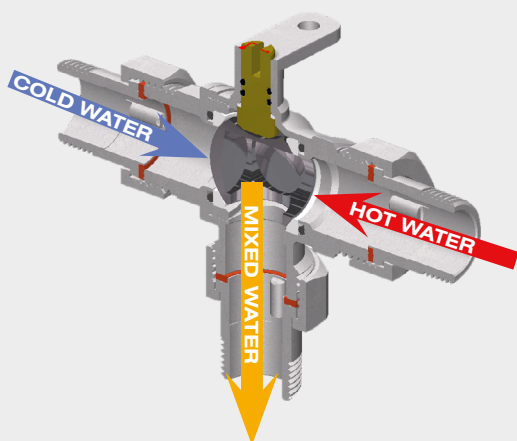
2 INSTALLATION

The actuator can be installed exclusively on FAR zone valves, both in horizontal and vertical position.

! Don't install the actuator upside-down, as any dripping due to condensation could cause damages to the electrical part. The IP54 protection degree of protection indicates that the actuator is protected against dust and water splashes.

When installing the valve check the screwdriver slot position: it must be the same as the actuator pin. Then insert the studs in the appropriate holes in the valve flange and lock in position with the supplied screw nuts.

The three-way mixing valve is a ball valve with full bore flow. Available in 1/2", 3/4", 1" and 1 1/4" sizes.



USE OF MANUAL RELEASE

Actuator equipped with a manual release, which allows manual opening or closing of the mixing valve in the event of power failure.

In order to carry out the opening or closing, push the release button for a few seconds and then turn the lever, as shown in the illustration.



3 ELECTRICAL CONNECTIONS

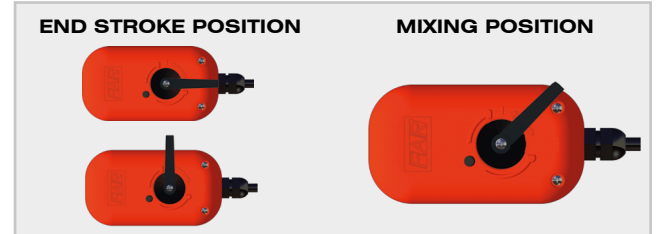
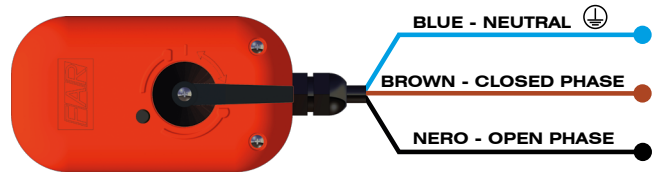
ART. 3010 (230V) - ART. 3011 (24V)



SMALL - 3-point actuator with manual release for mixing zone control ball valves.

COLOUR	DESCRIPTION
BLUE	CONNECTION TO THE NEUTRAL
BROWN	PHASE ON BROWN WIRE COUNTERCLOCKWISE ROTATION
BLACK	PHASE ON BLACK WIRE CLOCKWISE ROTATION

Below is the wiring scheme of the actuator where the colors of the cables are indicated for proper connection.



To manage mixing, it is necessary to provide for an electronic control unit. Properly connected to the actuator, it adjusts the ball position via a signal from a temperature probe installed at the valve outlet, in order to obtain the mixed fluid at the desired temperature.

Set point operation:

Art.9612 Complete with control unit and delivery probe.



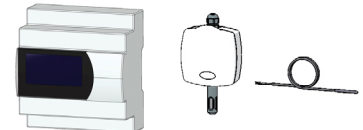
Temperature control (Hot)

Art.9611 Complete with control unit, delivery probe and external probe.



Temperature control (Hot/Cold)

Art.9614 Complete with control unit, delivery probe and external probe.



4 TECHNICAL FEATURES

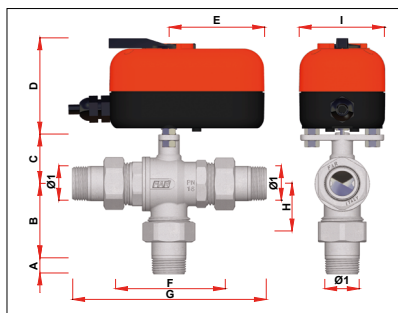
ACTUATOR

- Connection cable length: 1 m
- Feed voltage: **230V** (art.3010) **24V** (art.3011) 50Hz
- Absorbed power: 4,5 VA
- Rotation Angle: 90°
- Rotation time: 180 seconds
- Protection level: IP54
- Torque: 10Nm
- Working temperature range: from -10°C to + 50°C

VALVE

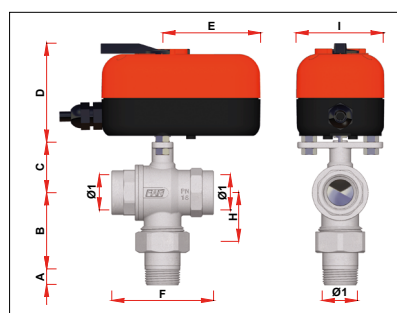
- Valve body and ball: UNI EN 12165:98 CW617N brass
- Control stem: Ottone UNI EN 12164:98 CW614N brass
- Sealing gaskets: OR in EPDM and seats in PTFE
- Nominal working pressure: 16 bar
- Differential maximum pressure: 5 bar
- Circulating fluid temperature: -10°C (with antifreeze) +100°C
- Usable fluids: water, water with glycol

5 DIMENSIONAL FEATURES



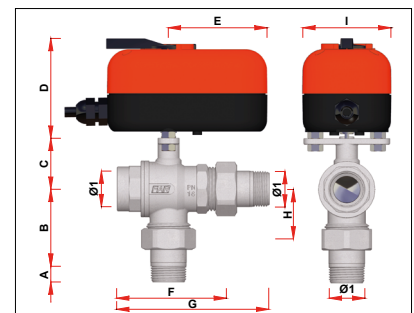
ART. 301020

CODE	Ø1	A	B	C	D	E	F	G	H	I
301020 1240	1/2"	11	48	33	75	74	75	136	28	66
301020 3440	3/4"	13	56	38	75	74	84	150	36	66
301020 140	1"	16	63	42	75	74	94	172	41	66
301020 11440	1 1/4"	18	71	47	75	74	107	190	48	66



ART. 301021

CODE	Ø1	A	B	C	D	E	F	G	H
301021 1240	1/2"	11	48	33	75	74	64	28	66
301021 3440	3/4"	13	56	38	75	74	77	36	66
301021 140	1"	16	63	42	75	74	90	41	66



ART. 301022

CODE	Ø1	A	B	C	D	E	F	G	H	I
301022 1240	1/2"	11	48	33	75	74	70	100	28	66
301022 3440	3/4"	13	56	38	75	74	80	114	36	66
301022 140	1"	16	63	42	75	74	92	132	41	66
301022 11440	1 1/4"	18	71	47	75	74	106	148	48	66