

# SERVOMOTOR

## FOR MIXING AND DEVIATING VALVES 2 OR 3 WAYS

### THREADED Ø 1"1/2" Ø 2"

### FLANGED DN 40 50 65 80 100



#### OPERATING INSTRUCTIONS

**COUPLING WITH 2 SCREWS M6 - SHAFT 8 mm**

**Model M8MV9**

**Proportional control 0 ÷ 10V / 4-20mA**

**24 Vca**

#### WORKING

90° rotation movement of the actuator is controlled by a 0 - 10 Vcc signal. The positioning is proportional to the signal the actuator receives in between of 0 - 10 V DC value.

Control signal can be generated by any control unit with a modulating 0 - 10 V DC (or 4 - 20 mA) output signal, like a climatic regulation control, or an ambient temperature control unit.

Every time that the servomotor is switched on, it rotates counterclockwise (light on board blinks fast) until it reaches the end of stroke. Then the rotation follows the driving signal (light on board blinks slowly).

Coupling servomotor and valve pay attention to combination of hydraulics flows and servomotor rotation.



#### TECHNICAL FEATURES

Supply voltage : 24 Vac +/- 10% 50Hz

Power consumption : 4 W

Static torque : 20 Nm (200 kg·cm)

Working ambient temperature : 0 ÷ 50°C

Stroke time : 180 " x 90°

Type of control : proportional analogue

N° 2 outputs 24 Vcc/max 30 mA

Electrical protection level : IP 42

2) ROTATE THE HANDLE      1) PUSH BUTTON      MANUAL OVERRIDE



FA505 / 0817

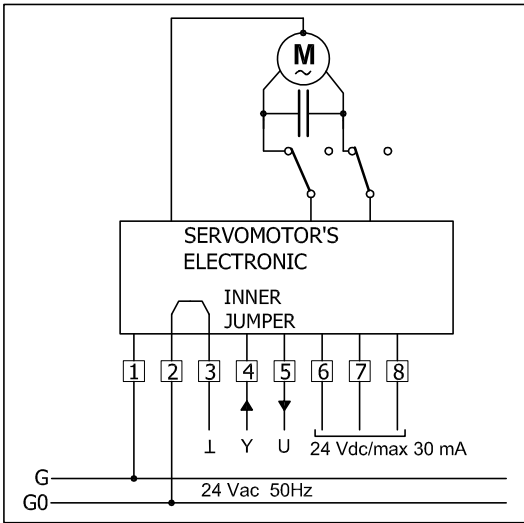
#### PAY ATTENTION !

IN THE COUPLING OF SERVOMOTOR AND VALVE PAY ATTENTION TO MATCH THE INITIAL POSITIONS OF OPENING AND CLOSING OF EACH ONE, AS SHOWN ON THE ROD OF VALVE AND ON THE COVER OF SERVOMOTOR.

<b>3 WAYS SECTOR MIXING OR DEVIATING VALVES</b>		
<b>3-4 WAYS ROTOR MIXING VALVES</b>		
<b>INSTALLATION</b>		
<p style="text-align: center;"><b>OK</b></p>	<p style="text-align: center;"><b>OK</b></p>	<p style="text-align: center;"><b>NO</b></p>

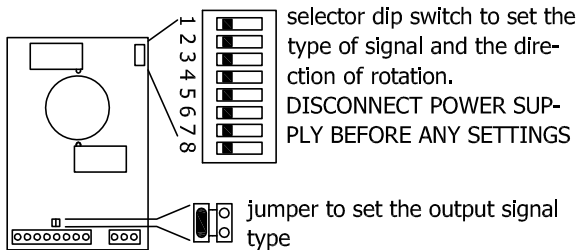
# FEATURES

## ELECTRIC CONNECTIONS

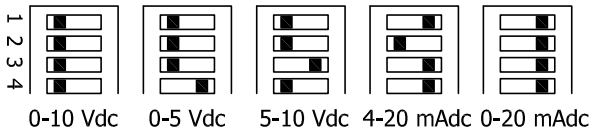


- 1 - 2 Supply voltage 24 Vca 50Hz
- 3 - 4 Driving signal Y (if the negative pole of the driving signal is shared in common with G0, do NOT connect terminal 3)
- 3 - 5 Analogue output U - V o mA (dc)
- 6 - 7 Output 24 Vdc/max 30 mA when the servomotor is near the end of the stroke with ccw rotation
- 6 - 8 Output 24 Vcc/max 30 mA when the servomotor is near the end of the stroke with cw rotation

## SETTINGS ON BOARD



## DRIVING SIGNAL



## DIRECTION OF ROTATION (with driving signal increasing)

∞ [ ] counterclockwise    ∞ [ ] clockwise

## GUARANTEE

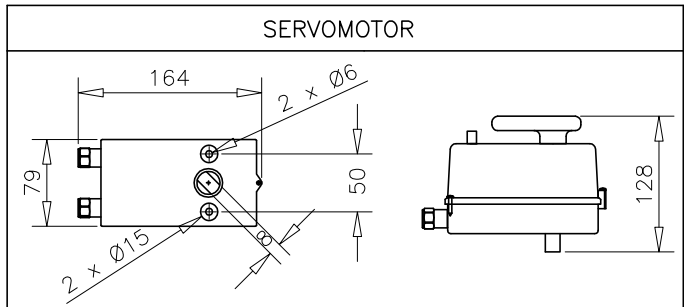
The Seller warrants each new servomotor to be free from defects in material, workmanship and construction, and that when installed and used in accordance with this technical datasheet will perform to applicable specifications for a period of two years from the date of delivery.

If examination by the Seller discloses that the product has been defective, then its obligation is limited to repair or replacement, at its option, of the defective product or its components. The Seller is not responsible for products which have been subject to misuse, alteration, accident or for repairs not performed by the Seller.

Products must be returned properly packed with transportation charges prepaid to The Seller; return delivery terms will be DDP Seller's Factory. The foregoing warranty constitutes the Seller sole liability, and is in lieu of any other warranty, of merchantability or fitness. The Seller shall not be responsible for any incidental or consequential damages arising from any breach of warranty.

# de pala

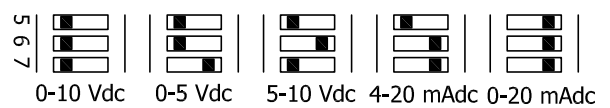
## OVERALL DIMENSIONS



3 VIE 4 WAYS THREADED ISO 228	DN	1"1/2	2"
	SERVO MOTOR	M8M	M8M
	H	167	173
	A	232	238
	F	135	180

3 - 4 WAYS FLANGED EN 1092-1	DN	40	50	65	65	100
	SERVO MOTOR	M8M	M8M	M8M	M8M	M8M
	H	207	213	222	230	242
	A	272	278	287	295	307
	F	180	200	200	234	260

## OUTPUT SIGNAL



jumper position for output in Vdc

jumper position for output in mAdc