

# ACTUATOR

FOR ISO 2 - 3-WAY VALVES

Ø 1/2", Ø 3/4", Ø 1"

ISO 5211 CONNECTION - FLANGE F03, SQUARE 9

## INSTRUCTION SHEET

### FUNCTIONING

The **M7 - R7 - P7 - T7** actuators are made up of a 230Vac or 24 Vac **BIDIRECTIONAL** electric motor, equipped with **ISO 5211** valve connection system: with flange **F03**, **quadro 9**.

Opening and closing are achieved by 90° reversible rotation of the output shaft in 60 seconds.

The **M7 - P7** series motors are controlled by a **3-WIRE** room thermostat (**electric line diverted to OPEN or CLOSE contact**) or by any **diverted** input. This thermostat (or generic input) must control only one actuator.

The **R7 - T7** series motors are controlled by a **2-WIRE** room thermostat (**electric line interrupted on OPEN contact**) or by any **interruption** input. This thermostat (or generic input) can control several actuators in parallel.

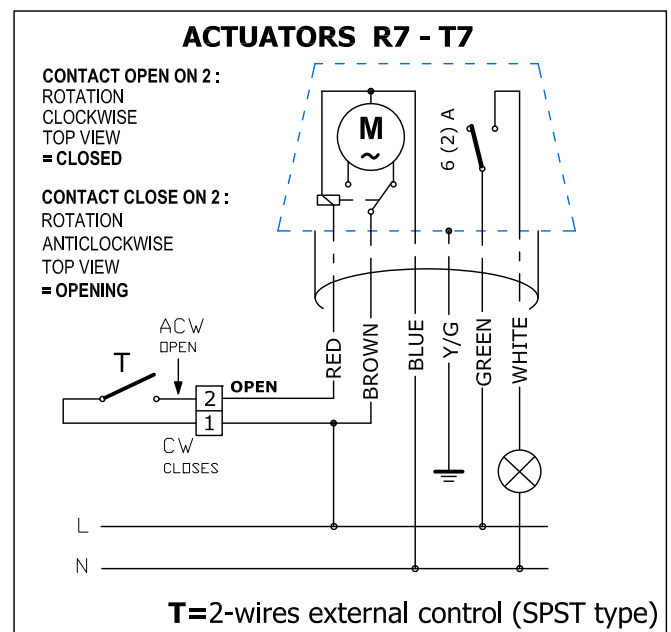
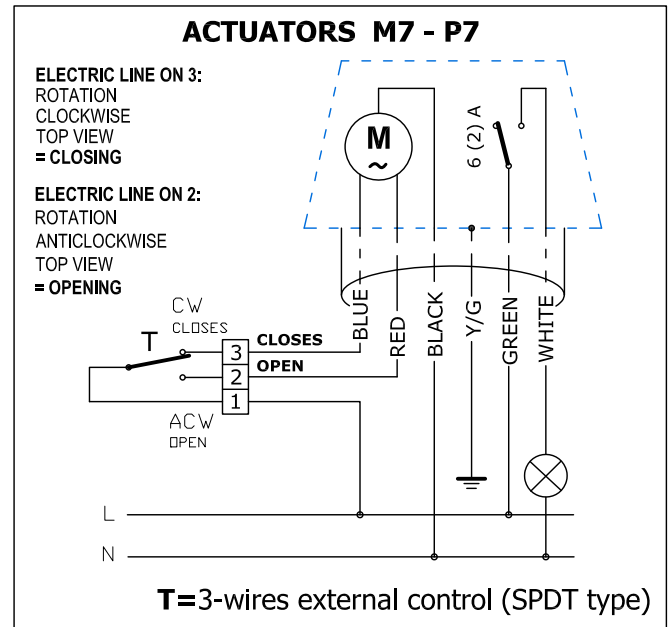
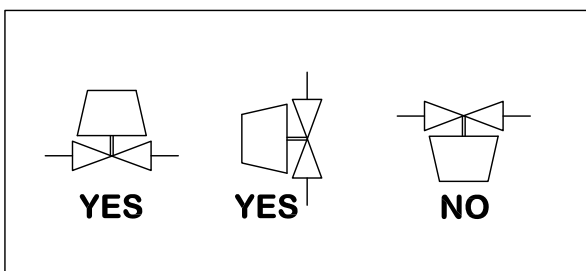
The actuator is equipped with **1 auxiliary microswitch** which intervenes in the hydraulic opening position, with a "clean" type electrical contact.

Depending on the application, it can also be equipped with a second auxiliary microswitch in the hydraulic closed position with relative "clean" contact (see code combination table).

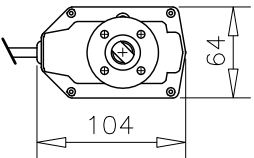


### VALVE AND RELATED ACTUATOR COUPLING

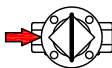
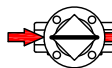
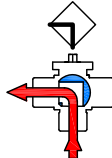
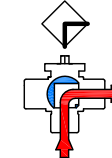
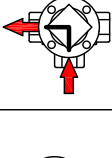
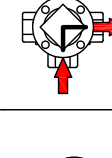

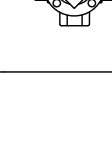
The valve and its actuator can be installed in any position except the reverse position (i.e. the actuator is mounted with the cap facing downwards). It is recommended to mount the valve body on the pipeline first, and then couple the actuator to it when starting the system. For this purpose, they are supplied with their own packaging.



## ACTUATOR FEATURES

M7 - R7 - P7 - T7	ACTUATOR CODE							
	M7IB9	M7IC9	P7IB9	P7IC9	R7IB9	R7IC9	T7IB9	T7IC9
SUPPLY VOLTAGE	230 Vac +/- 10%	24 Vac +/- 10%	230 Vac +/- 10%	24 Vac +/- 10%	230 Vac +/- 10%	24 Vac +/- 10%	230 Vac +/- 10%	24 Vac +/- 10%
COMMAND TYPE	3 WIRES				2 WIRES			
ELECTRICAL PROTECTION GRADE	IP54		IP65		IP54		IP65	
 <p>Altezza : 112</p>	<ul style="list-style-type: none"> <li>- Manoeuvre time : 60" x 90° bidirectional</li> <li>- Starting torque : 12 Nm</li> <li>- Operating temperature : 0°C / +65°C</li> <li>- Electrical consumption : 4 W only during operation</li> <li>- Flange : ISO 5211 : F03, square 9</li> <li>- Auxiliary contacts : (*) n°1, capacity 6(2) A - 250 Vac (closed with valve open)</li> </ul>							
	[*] with E in place of B = 2 auxiliary contacts (example : M7IE9)				[*] with F in place of C = 2 auxiliary contacts (example : R7IF9)			

## COUPLING TO DE PALA VALVE BODIES

VALVE TYPE	CLOSING POSITION	OPENING POSITION	VALVE BODY CODES
2 WAYS			632 FI / 602 FI / 612 FI
3-WAYS "T" BORED BALL COMPLANAR DIVERTER			633 TI / 603 TI / 613 TI
3-WAYS "T" BORED BALL FRONTAL DIVERTER			63A LI / 60A LI
3-WAYS LATERAL DIVERTER			63A TI / 60A TI

The informations in this document are intended for the company responsible for installation and maintenance. The hydraulic and electrical installation operations must be carried out by qualified personnel, in accordance with the laws and regulations of each country where the product is destined. The product must only be used in the application context for which it has been designed. De Pala srl, in the continuous process of improving its products, reserves the right to make any technical, dimensional and aesthetic changes it deems necessary without prior notice.

