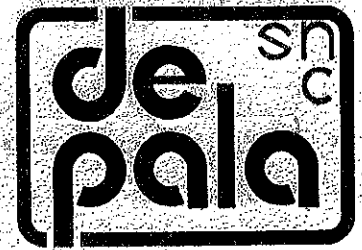


# inocal

## MOTORIZED VALVE 2-WAY and 3-WAY VALVES

Ø 1" 1/2 - Ø 2"



TECHNICAL INSTRUCTION

ISO 5211 CONNECTION - FLANGE F05 ROD 11

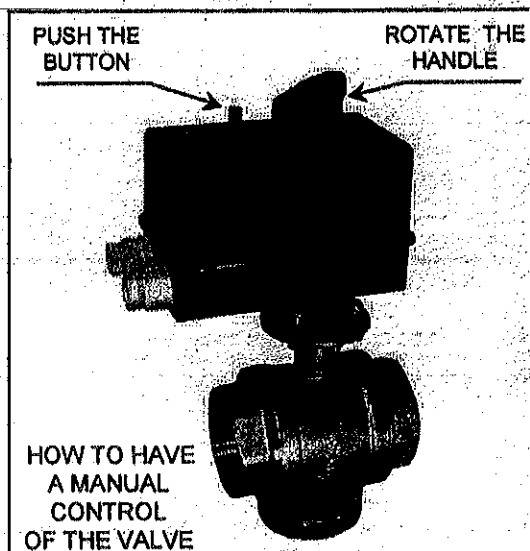
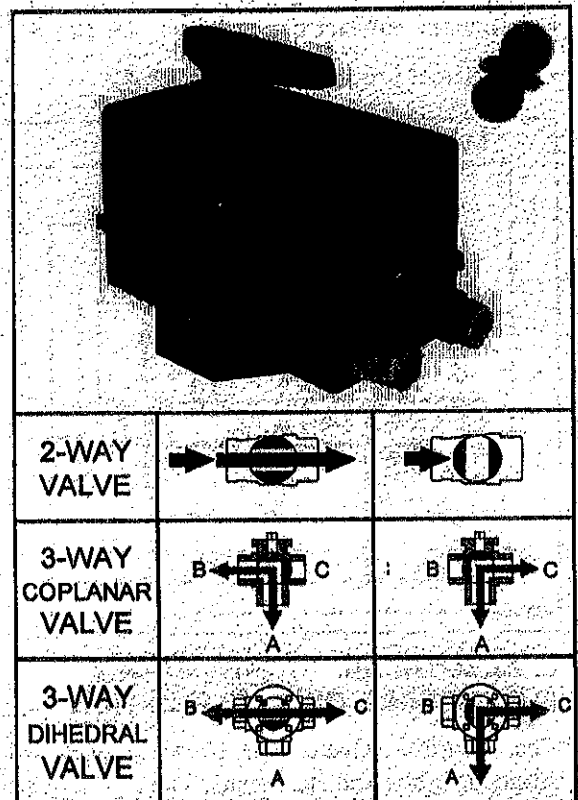
Code M8IB9 - 3 WIRES CONTROL

### □ OPERATION

DE PALA SERVOMOTOR M8IB9 is powered by a 2 sense of march servomotor which has an ISO 5211 CONNECTION with FLANGE F05 and ROD Q11. The rod rotates with an angle of 90° for every position, with an external indication of operating position valve. Servomotor M8IB9 is designed for operation by 3 wires room thermostat (COMMON-OPEN-CLOSE) or by every deviating electrical control. With its auxiliary switch it is possible to control a circulation pump, so that it is activated only if at least one of the servomotors is in open position. A manual operation is possible by pushing the button and by rotating the manual handle which are on the plastic cover.

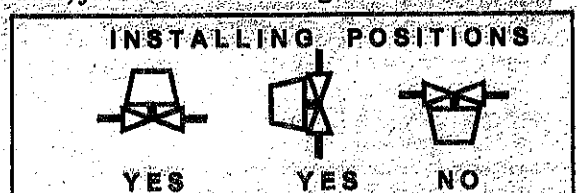
### □ GENERAL USES

Servomotor M8IB9 can be joined to valves with an ISO 5211 CONNECTION SYSTEM with FLANGE F05 and ROD Q11. Valves and servomotors are suitable to have an automatic adjustment of warm or cold flows in heating or cooling plants.



### □ INSTALLING

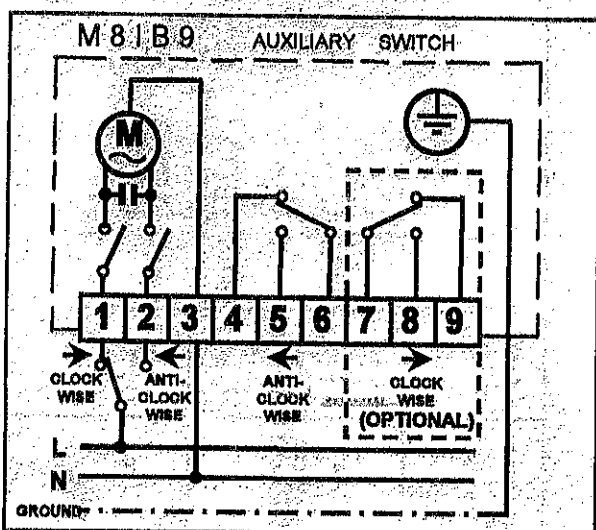
DE PALA MOTORIZED VALVE can be joined in any position except that with the spindle facing downwards. Before installing make sure that in pipeworks there is no extraneous matter such as remains of welding or threading. Servomotor and valve are separately supplied so that it is possible to install valve before and servomotor after, just when all building works are finished.



# FEATURES OF MOTORIZED BALL VALVE

## SERVOMOTOR Code M8IB9

- Supply voltage : **230 V 50 Hz**
- Absorbed power : **4 VA**
- Torque on control rod : **20 Nm (200 Kg • cm)**
- Ambient operating temperature : **0 °C + 50 °C**
- Opening or closing time : **60 sec.**
- Type of control: **3 wires Control (deviating type)**
- Auxiliary contact capability : **10 (3) A 250V**
- Electrical protection level : **IP 42**



### ☐ ELECTRICAL CONNECTIONS ☐ CHOOSING OF THE POSITION

The electrical actuator has been equipped with a strong gear-box and steel gears. The auxiliary switch and a low rotation time avoid high boiler pressure.

The electrical connections of servomotor have to be connected with the multipolar electric cable by reading technical instructions above-stated.

Servomotor have not an fixed open or closed position because the choosing of the open and closed position depends on how the valve is joined to the servomotor. In fact the servomotors can be joined both in a crosswise or in a lengthwise position as regards to the position of the valve.

### WARRANTY

ALL EQUIPMENT MANUFACTURED BY DE PALA S.N.C. IS GUARANTEED FOR A PERIOD OF **2 YEARS** BEGINNING FROM THE MANUFACTURING DATE WHICH IS STAMPED INSIDE. DURING THIS PERIOD DE PALA S.N.C. UNDERTAKES TO REPAIR OR REPLACE THE EQUIPMENT, WHATEVER DEFECT IT PRESENTS, **FREE OF CHARGE**. WARRANTY DOES NOT INCLUDE COSTS OF TRANSPORTING EQUIPMENT TO AND FROM THE REPAIR WORKSHOP. FURTHERMORE, IT DOES NOT COVER ANY KIND OF OUTSIDE SERVICE. IN NO CASE OF WARRANTY REPAIR THERE IS THE POSSIBILITY TO MAKE A CLAIM FOR DAMAGES TO DE PALA S.N.C.

## OVERALL DIMENSIONS

2-WAY		DN	1" 1/2	2"	2" 1/2	3"
	motor type		M8	M8	M9	M9
	H		210	216	235	245
	A min		225	231	250	260
	F		100	115	141	159

WIDTH : M8 type = 79 mm M9 type = 109 mm

3-WAY COPLANAR		DN	1" 1/2	2"	-	3"
	motor type		M8	M8	-	M9
	H		210	216	-	245
	A min		225	231	-	260
	F		100	115	-	180

WIDTH : M8 type = 79 mm M9 type = 109 mm

3-WAY DIHEDRAL		DN	1" 1/2	2"	2" 1/2	
	motor type		M8	M8	M9	
	H		210	216	210	
	A min		225	231	217	
	F		100	115	233	

WIDTH : M8 type = 79 mm M9 type = 109 mm

**de pala** snc

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