MOTORIZED VALVE IN CO

2 - WAY BALL VALVE 1/2" - 3/4" - 1"- 1" 1/4

TECHNICAL INSTRUCTION

R6A2 Model (normal) R6B2 Model (auxiliary switch)

2 WIRES CONTROL - 60" OPEN CLOSE

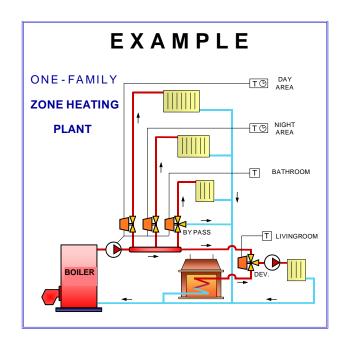
□ OPERATION

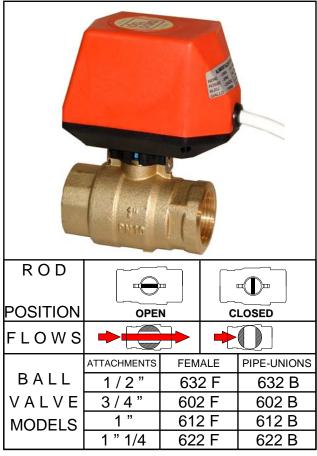
2 - WAY VALVE is provided with an ON-OFF ball powered by a 1 sense of march servomotor which has a bayonet coupling system. The ball rotates with an angle of 90° for every position, with an external indication of operating position valve. The motorized zone valve is designed for operation by 2 wires room thermostat (**OPEN-CLOSE**) or by every ON/OFF electrical control. With auxiliary switch version it is possible to control circulation pump, so that it is activated only if at least one of zone valves is opened.

A manual operation is possible by rotating servomotor when it is partly disconnected.

☐ GENERAL USES

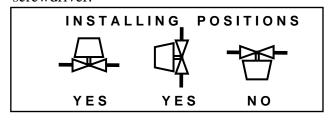
MOTORIZED VALVE can be used for thermoregulation in zone heating plants, with sanitary water, with fan-coil or in plants with automatic adjustment of warm and cold flows. All the fluids must be compatible with P.T.F.E. and EPDM rubber.





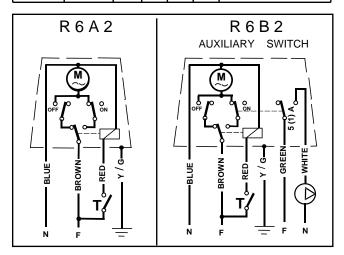
☐ INSTALLING

Our ZONE VALVE can 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. It's easy to connect them with a bayonet coupling system. The disconnecting can be carried out easily by widening the two reeds with a screwdriver.



FEATURES OF ZONE BALL VALVE

COMPONENTS		OVERALL DIMENSIONS					
SERVO - MOTORS	BALL VALVES	Н	A min	В	F	WIDTH 63	
R6A2 or R6B2	632 F	110	120	1	76	Ψ F B	
	602 F	110	120	1	76		
	612 F	115	125		86		
	622 F	120	130		94		
R6A2 or R6B2	632 B	110	120	130			
	602 B	110	120	136			
	612 B	115	125	155	1		
	622 B	120	130	172			



☐ ELECTRICAL CONNECTIONS

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 (4 or 6 wires) by reading technical instructions above-stated. The auxiliary switch (GREEN and WHITE) that stops circulation pump, is a "CLEAN" type in fact it's insulated from the control of the valve. The two wires (GREEN and WHITE) have to be parallel connected with the power supply of circulation pump. The possible hour-meter has to be connected between OPEN (RED) and NEUTRAL (BLUE) conductors.



BALL VALVES 632 602 612 622

Valve body: BRASS CW617N (UNI 12165)

• Ball : BRASS CW617N (nichel-chromium plated)

Rod: EXTRUDED OT CW614N (UNI 12164)

 SEALS on the ball and on the rod : P.T.F.E. and EPDM O-RINGS

Nominal operating pressure : 10 bar

• Maximum differential operating pressure : 6 bar

• Fluid temperature field : FROM 0 °C to 100 °C

Utilisable fluids : WATER or Fluids compatible

with PTFE and EPDM rubber

• Attachments : Internal GAS or Flat sealing union attachments

• Load loss : no effect (TOTAL FLOW TYPE)

SERVOMOTORS R6A2 - R6B2

• Supply voltage : 230 V 50 Hz

• Absorbed power : 3,5 VA

• Torque on the control rod : 5 Nm (50 Kg • cm)

• Ambient operating temperature : 0 °C ÷ 65 °C

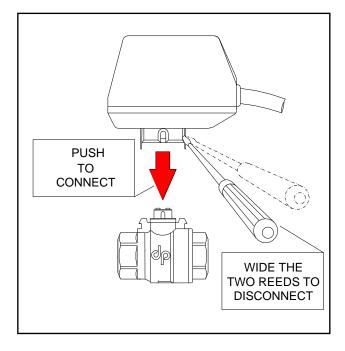
• Opening or closing time : 60 sec.

Type of control: 2 wires control - ON/OFF type

Auxiliary contact capability: 5A 250V

Electrical protection level : IP 54

Cable length: 1,0 m



Friedhofstraße 4; A-4020 Linz Tel.: 0043(0)732/650391-0 Fax.: 0043(0)732/650392-10

info@inocal.com; www.inocal.com

MOTORIZED VALVE INCO

2 - WAY BALL VALVE 1/2" - 3/4" - 1"- 1" 1/4

TECHNICAL INSTRUCTION

M62AN Model (normal) M62BN Model (auxiliary switch)

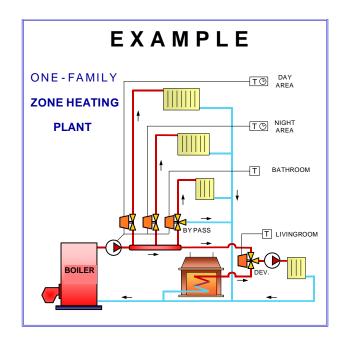
3 WIRES CONTROL - 60" OPEN CLOSE

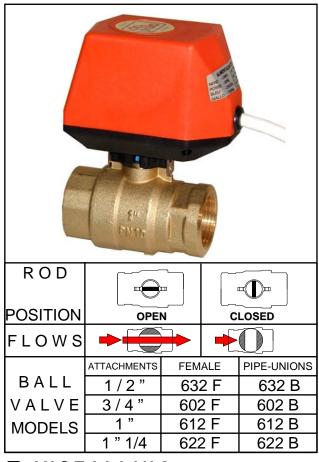
☐ OPERATION

2 - WAY **VALVE** is provided with an ON-OFF ball powered by a 1 sense of march servomotor which has a bayonet coupling system. The ball rotates with an angle of 90° for every position, with an external indication of operating position valve. The motorized zone valve is designed for operation by 3 wires room thermostat (COMMON-OPEN-CLOSE) or by every deviating electrical control. With auxiliary switch version it is possible to control circulation pump, so that it is activated only if at least one of zone valves is opened. A manual operation is possible by rotating servomotor when it is partly disconnected.

☐ GENERAL USES

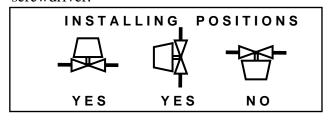
MOTORIZED VALVE can be used for thermoregulation in zone heating plants, with sanitary water, with fan-coil or in plants with automatic adjustment of warm and cold flows. All the fluids must be compatible with P.T.F.E. and EPDM rubber.





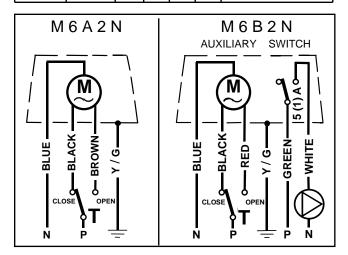
☐ INSTALLING

Our **ZONE VALVE** can 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. It's easy to connect them with a bayonet coupling system. The disconnecting can be carried out easily by widening the two reeds with a screwdriver.



FEATURES OF ZONE BALL VALVE

COMPONENTS		OVERALL DIMENSIONS					
SERVO - MOTORS	BALL VALVES	Н	A min	В	F	WIDTH 63	
M6A2N or M6B2N	632 F	110	120	1	76	Y.J.E. B.	
	602 F	110	120	1	76		
	612 F	115	125	-	86		
	622 F	120	130		94		
M6A2N or M6B2N	632 B	110	120	130	1		
	602 B	110	120	136			
	612 B	115	125	155	1		
	622 B	120	130	172			



☐ ELECTRICAL CONNECTIONS

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 (4 or 6 wires) by reading technical instructions above-stated. The auxiliary switch (GREEN and WHITE) that stops circulation pump, is a "CLEAN" type in fact it's insulated from the control of the valve. The two wires (GREEN and WHITE) have to be parallel connected with the power supply of circulation pump. The possible hour-meter has to be connected between **OPEN** (RED or **BROWN**) **NEUTRAL** (BLUE) conductors.



BALL VALVES 632 602 612 622

Valve body: BRASS CW617N (UNI 12165)

• Ball : BRASS CW617N (nichel-chromium plated)

Rod: EXTRUDED OT CW614N (UNI 12164)

 SEALS on the ball and on the rod : P.T.F.E. and EPDM O-RINGS

Nominal operating pressure : 10 bar

• Maximum differential operating pressure : 6 bar

Fluid temperature field: FROM 0 °C to 100 °C

Utilisable fluids : WATER or Fluids compatible with PTFE and EPDM rubber

Attachments: Internal GAS or Flat sealing union attachments

• Load loss : no effect (TOTAL FLOW TYPE)

SERVOMOTORS M6A2N - M6B2N

• Supply voltage : 230 V 50 Hz

• Absorbed power : 3,5 VA

Torque on the control rod : 5 Nm (50 Kg • cm)

• Ambient operating temperature : 0 °C ÷ 65 °C

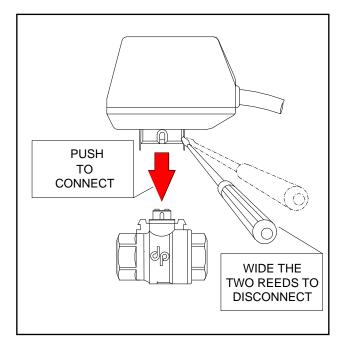
• Opening or closing time : 60 sec.

Type of control: 3 wires control – deviating type

Auxiliary contact capability: 5A 250V

Electrical protection level : **IP 54**

Cable length: 1,0 m



Friedhofstraße 4; A-4020 Linz Tel.: 0043(0)732/650391-0 Fax.: 0043(0)732/650392-10

info@inocal.com; www.inocal.com