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Microdiam

MOTORIZED BALL VALVES

USE

- zone heating systems
- systems using alternative energy
- automation systems in general
- distribution manifolds with 50-mm span

KEY FEATURES

- position indicator
- auxiliary microswitch in open position (optional)
- fast push connection on Microdiam ball valve range
- 2-point or 3-point electrical control
- manual operation



TECHNICAL FEATURES	Microdiam					
Power supply	230V 50/60 Hz • 24V 50/60 Hz					
Electric control	2-point	3-point				
Operation	ON/OFF	ON/OFF • Modulating				
Power supply cable	Length	80 cm				
Torque	51	5 Nm				
Rotation angle	90°					
Power consumption	3.9 VA					
Power output of the outlet phase to grey wire	1A, resistive					
Power output of the extra microswitch	1 A, resistive; 250 V					
Position indicator	Rotating arrow					
Operating time (90°)	48 sec					
Maximum noise (at 1 m distance)	40 dB(A)					
Installation	Indoor, protected from frost					
Operational room temperature	+5°C+50°C					
Room humidity	Max 95% UR, no condensation					
Protection degree	IP44					
Insulation degree	II - double insulation					
External shell material	Polyamide PA 6, 30% fibreglass					
Maintenance	None					
Certification	CE					

Notes and Warnings: The device was designed to be used in heating systems, cooling systems, ventilation systems and - in general - in civil installations with features corresponding to the above-mentioned specifications. It can not be used outside the intended application field.

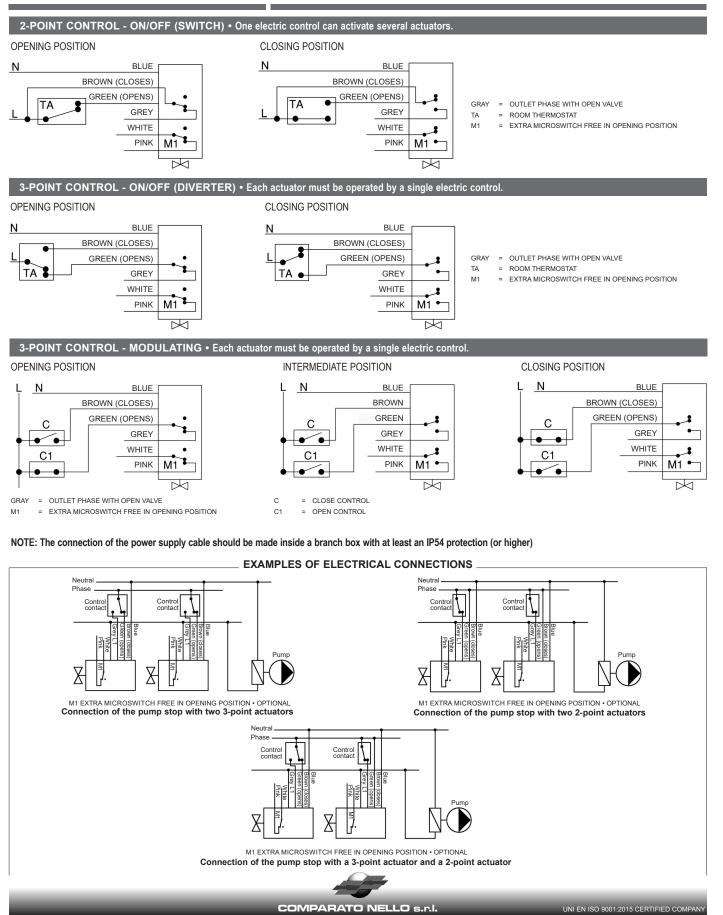
VERSIONS

Command	Operating time	Power supply	Code	
2-POINT	48 sec	24V 50/60Hz 230V 50/60Hz	MR242N MR222N	ACCESSORY: to complete the actuator with an auxiliary opening microswitch, add "1" to the end of code • E.g. MR222N1
3-POINT	48 sec	24V 50/60Hz 230V 50/60Hz	MS242N MS222N	

COMPARATO NELLO s.r.I. 1

Microcliam MOTORIZED BALL VALVES

ELECTRICAL CONNECTIONS

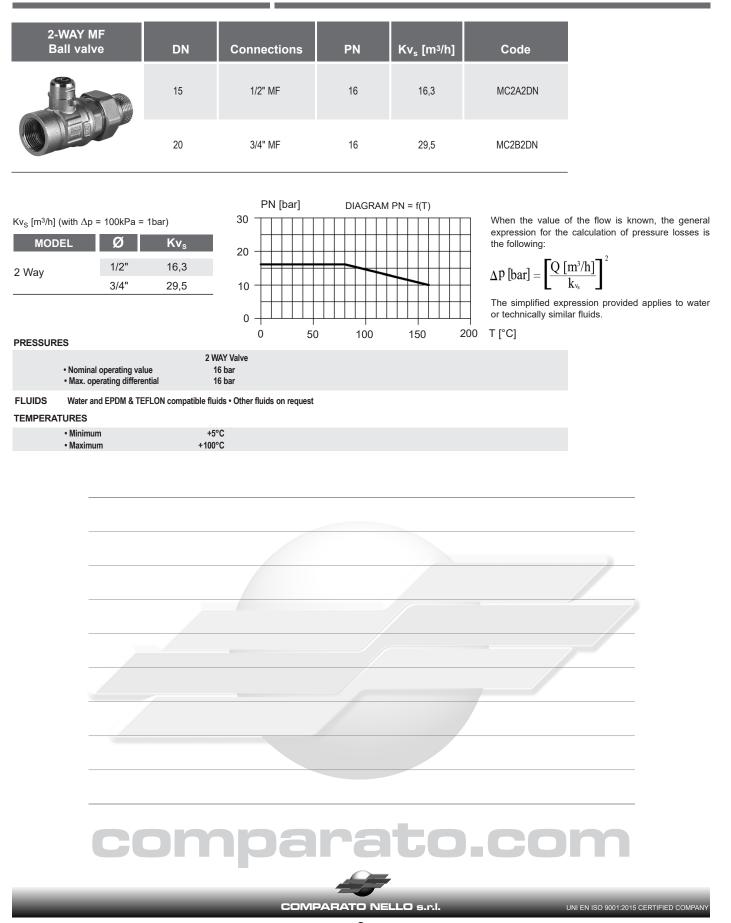


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MOTORIZED BALL VALVES

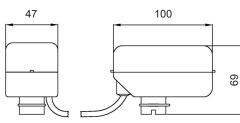
VERSIONS AND TECHNICAL FEATURES OF THE BALL VALVES



Microdiam MOTORIZED BALL VALVES

OVERALL SIZE

ACTUATOR





MOTORIZED VALVE

	MODEL	DN	Ø	A	В	C	D	
2 Ways		15 20	1/2" 3/4"	106 114	86 89	16 20	94 100	

The following table shows how a modulating zone adjustment leads to higher efficiency values.

ZONE ADJUSTMENT WITHOUT CLIMATE PRE-ADJUSTMENT	Radiators and convectors	Radiant panels insulated from the structure	Radiating panels embedded in the structure	ZONE ADJUSTMENT WITH CLIMATE PRE-ADJUSTMENT	Radiators and convectors	Radiant panels insulated from the structure	Radiating panels embedded in the structure
"ON/OFF" regulator	0,93	0,91	0,87	"ON/OFF" regulator	0,96	0,94	0,92
"Modulating" regulator (proportional band 1°C)	0,97	0,96	0,92	"Modulating" regulator (proportional band 1°C)	0,98	0,97	0,95
"Modulating" regulator (proportional band 2°C)	0,95	0,93	0,89	"Modulating" regulator (proportional band 2°C)	0,97	0,96	0,94

EXAMPLE OF SPECIFICATIONS

MICRODIAM actuator with 2-point ON/OFF electric control, 1 additional microswitch free in opening position, nominal torque: 5 Nm, power supply: 230 V 50/60 Hz, operating time: 48 sec / 90°, operating angle: 90°, degree of protection: IP44.

MF brass **MICRODIAM ball valve** CW617N UNI EN 12165, EPDM and PTFE seals, full port, PN16, complete with tang and cap, operating temperature +5°C...+100°C, fluid type water with glycol max. 30%, connection to actuator with Microdiam fast push connection.

Version: 2-WAY MF DN15 - 1/2" - Kvs 16,3.

Brand: COMPARATO Code: MR222A2DN1





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