



USE

- industrial plants
- heating / cooling systems
- all applications which require the operation of a valve according to the detected temperature



The **Diamant CLIMA** and **Compact CLIMA** actuators are controlled microprocessor which allows to intercept or deviate the fluid according to the temperature detected by the probe. The semiconductor temperature probe, connected to 80 cm-long cable, detects the temperature of the pipeline. The value at which the servo-motor actuator shall start and the operation it shall perform are set on the integrated digital display.

When a given temperature is reached, the valve can be opened or closed, or it is possible to make it deviate the fluid flow from one way to another, in case of a three-way valve. The operating temperatures vary from -15°C to +85°C with a +/- 1°C accuracy.

By means of the display it is possible to set a hysteresis value $(-15^{\circ}C / +15^{\circ}C)$ between the set-point value, at which the switching takes place, and the reset temperature.

TECHNICAL FEATURES	Diamant CLIMA	Compact CLIMA
Power supply	230V • 24V 50/60Hz (110V a richiesta)	
Maximum power consumption	8,9 VA (230V) • 9,4 VA (24V)	10 VA (230V) • 10,6 VA (24V)
Operating torque	11 Nm	22 Nm
Operating time (90° rotation) *	35 sec	45 sec
Probe and feeder cable length	80 cm	
Rotation	90°	
Protection degree	IP67	
Operational room temperature	-10°C to +50°C	
Temperature sensing field	-15°C to +85°C	
Temperature probe	Contact-type, NTC $10k\Omega$, total length 1,6 m	
Connection with ball valve	COMPARATO • ISO 5211 F03/05	ISO 5211 F03/05
Precision	± 1°C	
Maintenance	None	
Certification	CE	

^{*} More operating times available upon request



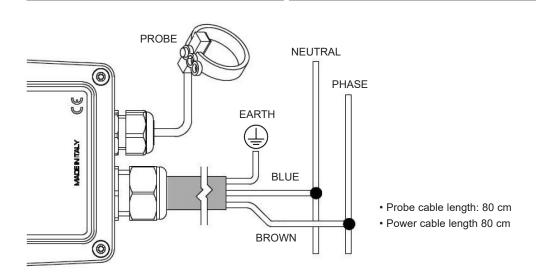




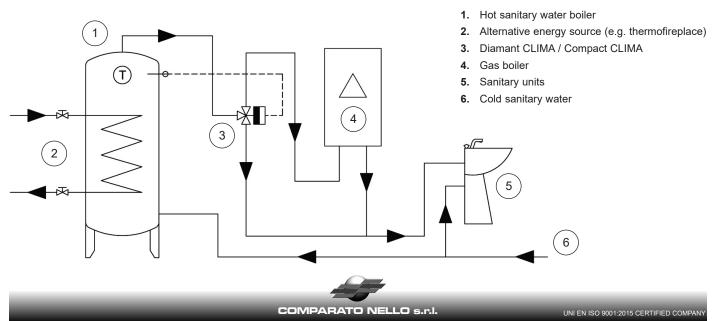
VERSIONS

Type of CONNECTION	Torque	Rotation angle	Operating time	Power supply	Base code
Diamant CLIMA COMPARATO connection		90° 90°	35 sec 35 sec	230V 50/60 Hz 24V 50/60 Hz	CLIMA230D CLIMA24D
Diamant CLIMA ISO 5211 connection	11 Nm 11 Nm	90°	35 sec 35 sec	230V 50/60 Hz 24V 50/60 Hz	CLIMA230DF CLIMA24DF
Compact CLIMA	22 Nm 22 Nm	90°	45 sec 45 sec	230V 50/60 Hz 24V 50/60 Hz	CLIMA230C CLIMA24C

ELECTRICAL CONNECTIONS



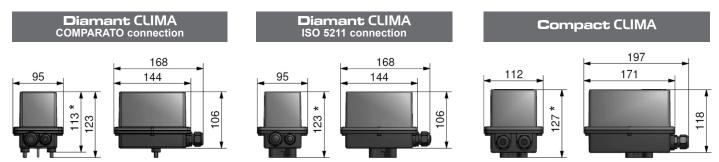
APPLICATION EXAMPLE







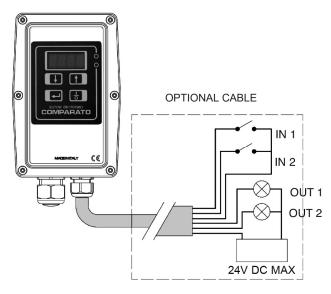
OVERALL SIZE



^{*} the size is to be taken into account when coupling the actuator to the ball valve.

ACCESSORIES

OPTIONAL INLETS/OUTLETS CABLE • Add "8" to the end of the code

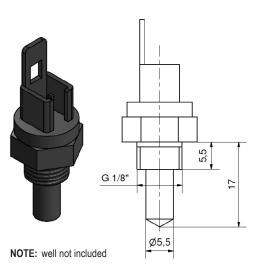


INLET	FUNCTION	DESCRIPTION	
1	Force in OPENING	By closing the inlet, the motorized valve moves in the opening position. The display will show the "Man" notice.	
2	Force in CLOSING	By closing the inlet, the motorized valve moves in the closing position. The display will show the "Man" notice.	

OUTLET	FUNCTION	DESCRIPTION	
1	Signal valve OPEN	The outlet is activated (contact closing) when the valve is in an opening condition.	
Signal valve CLOSED		The outlet is activated (contact closing) when the valve is in a closing condition.	

NB: The addition of the optional inlet/outlet cable does not guarantee the maintenance of the IP 67 protection degree. For further information please contact our Technical Office.

BRASS IMMERSION PROBE WITH CONNECTOR • Add "K" to the end of the code



EXTERAL TEMPERATURE PROBE • Cod. RFSONDAE



plastic
stainless steel
-40°C ÷ 100°C, relative humidity: 0 ÷ 100%
NTC 10kΩ
100Ω to 100Vdc
IP65 / IP67 according to IEC60529



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BODY VALVE ASSIGNMENT

Diamant CLIMA actuators with Comparato connection can be coupled to body valve shown in "Diamant PRO" data sheet, brass ball body valve -DP1.0-20" and on listed body valve with spacer for insulation or spacer for insulation and manual override



Other combinations on request

EXAMPLE OF SPECIFICATIONS

DIAMANT CLIMA ACTUATOR with temperature probe and integrated electronic thermostat, ON/OFF control according to the measured temperature, temperature range: -15°C ÷ +85°C, Operational room temperature: -10°C ÷ +50°C, Power supply: 230V AC50/60 Hz, operating time: 35 sec / 90°, degree of protection: IP67, connection to ball valve: Comparato connection.

Brand: COMPARATO Code: CLIMA230D

INFORMATION **MODELING**

UPDATED DATA SHEETS AVAILABLE AT www.comparato.com

In order to provide an up-to-date service, Comparato Nello S.r.l. reserves the right to modify technical data, drawings, graphs and photos of this data sheet at any time, without prior notice



HYDROTHERMAL SYSTEMS

COMPARATO NELLO s.r.l.

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