



Hydrothermal System

COMPARATO®



Reliable
by nature.

Nautical field

Comparato Nello s.r.l. offers a wide range of products for satisfying at its best the technical needs of boats and vessels, from classical 2-way or 3-way motorised valves for diverting/intercepting fluids to mixing valves for temperature regulation and proportional actuators for flow regulation. In addition to these valves, there is also a range of stainless steel components with customizable design.

Comparato Products can be used in several applications:

- Security of seacocks
- Settling tanks
- Water diversions
- Mixed domestic hot water for sanitary use
- Automatic accumulation of water in on-board tanks (for instance, water-makers)
- Chain washing plants
- Motorised bilge suction manifolds
- Regulation on fluids
- Management of the firefighting system
- Management of the wastewater
- Deviation towards the collection tanks
- Treatment of ballast water (transverse balancing systems)
- Treatment and disposal of oil residues
- Climatizing systems for cabins

MOTORISED VALVES

All actuators for nautical field are supplied with **IP67** protection (**IP68** on request) and an operating voltage of **12/24V DC** or **24/110/230V AC**.

Accessories available: manual override, for moving the valve in case of power failure; one or two microswitches with free contacts for having an outlet signal with a tension which may be even different from the working current; spacer for insulation where it is necessary to insulate the pipes.

DIAMANT PRO, **COMPACT PRO** and **UNIVERSAL PRO** 2-way or 3-way motorised valves can be used in several applications with **BRASS**, **STAINLESS STEEL**, **PVC** or **CAST IRON** valves from 1/2" up to 12", MM or MF or FF threaded, flanged or to be glued.

Operating times range from **1 to 80 seconds**, torque from **5 and 500 Nm** according to the model.

by 1968 always by your side



DIAMANT PRO



UNIVERSAL PRO



COMPACT PRO



WATERPROOF

IP68 RANGE



DIAMANT DC

MIXING MOTORISED VALVES

DIAMIX and COMPAMIX motorised valves have become more and more important thanks to the improved fluid mixing techniques. They consist of a 3-hole ball valve and of an actuator able to constantly control the sphere's position for realizing a specific regulation of the mixed fluid's temperature according to the set value.

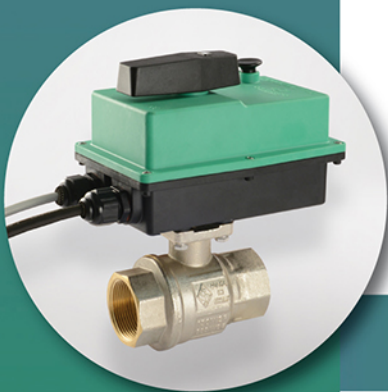
The system controlled by a microprocessor realizes a **PID regulation** (proportional, integrated, derivative) through a certain number of variable pulses. This regulation technique allows to achieve a **high degree of precision**, in order to assure a temperature control with a $\pm 1\text{ }^{\circ}\text{C}$ tolerance. On the actuator there is a display for setting the **required temperature** (adjustable between -15 and $+85\text{ }^{\circ}\text{C}$), controlled by an electronic sensor installed on the mixed water outlet. The new generation of mixing valves, available also with Modbus communication protocol, can be connected to a PLC or to any management system for controlling all parameters.

PILOT MULTIFUNCTION ACTUATOR

PILOT proportional actuators are designed for giving a solution to the complicated needs of fluid regulations. They can regulate the quantity of fluid by positioning the sphere of the ball valve according to an electric signal, which can be in current $4\div 20\text{mA}$ or $0\div 20\text{mA}$ or in tension $0\div 10\text{V}$ or $2\div 10\text{V}$. This electronic control guarantees an **absolute precision** in the positioning of the ball. These are multifunction actuators and can be supplied with different control options, with Fail-Safe (allowing an emergency operation in case of power failure) and other functions.



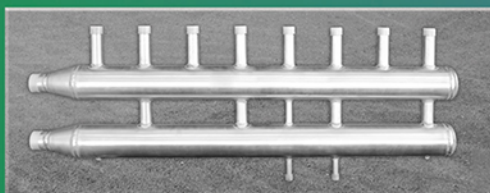
Modbus
DIAMIX PLUS



DIAMANT PILOT



Comparato can produce manifolds of different dimensions, both in carbon and stainless steel, and covered manifolds for exhaust gases.



SMART PRO MULTIFUNCTION ACTUATORS

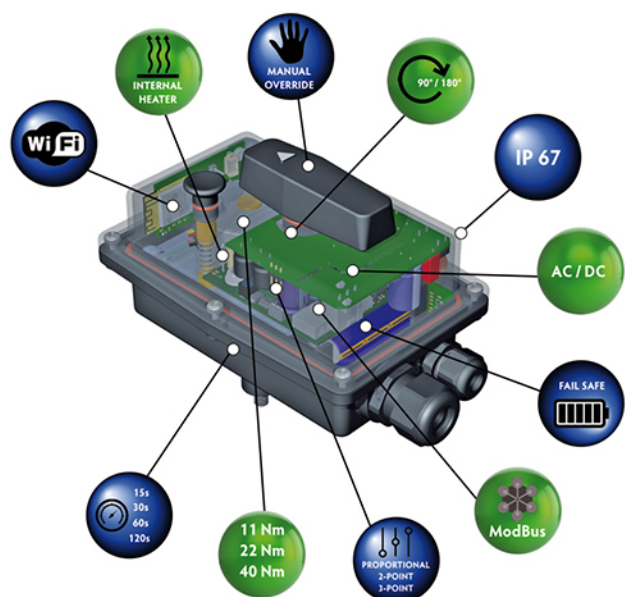
This is the evolution of the range of motorised valves designed for industrial applications, thanks to the implementation of **SMART** technology: on/off and proportional functioning guarantee the max precision in terms of control in any application while the **Wi-Fi** programming interface allows an easy and remote access to all configuration settings, monitoring and diagnostics through a smartphone, tablet or PC.

The word "**SMART**" refers to this intelligence and connectivity, while "**PRO**" refers to the IP67 or IP68 class protection with features designed for the industrial sector.

A highly requested feature is **Fail-Safe**, allowing to set a safety position in case of power failure: energy is collected in supercapacitors, allowing an emergency positioning operation.

Supercapacitors make the Fail-Safe system reliable for thousand of cycles without the need of maintenance and with the possibility of checking the status of the battery through a Wi-Fi interface at any time.

The version with **Modbus** protocol communication makes the **SMART PRO** range suitable for all modern remote control systems and fieldbus. Thanks to their technical features, these actuators can be installed in aggressive environments, including humid and saline environments typical of the nautical sector.



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SMART PRO

DIAMANT
SMART PRO



COMPACT
SMART PRO

BUILT-IN WEB SERVER
NO APP REQUIRED

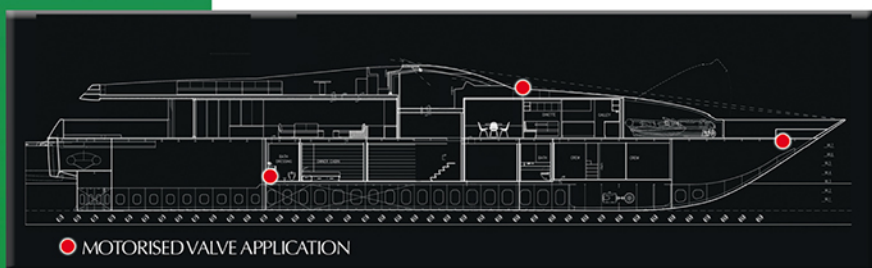
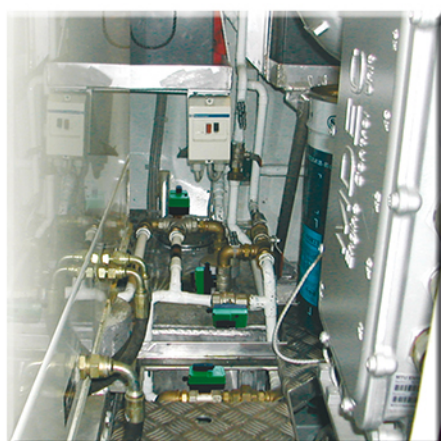




MOTORISED VALVES FOR: SEACOCKS, DECANTATION TANKS, CHAINS WASHING SYSTEMS, MOTORISED BILGE PUMPING SYSTEMS, WASTE WATER AND GREY WATER SYSTEMS, DEVIATION OF ONBOARD WATER, MIXED DHW, AUTOMATIC WATER STORAGE IN ONBOARD TANKS (EX. DESALINATION SYSTEMS), EMBARK OF SAFE DRINKING WATER, BALLAST PUMPING SYSTEMS, OIL SYSTEMS, SLUDGE SYSTEMS, WINDOW WASHING SYSTEMS, MOTORISED MANIFOLDS FOR BILGE PUMPING ASPIRATION SYSTEMS, GENERAL FLUID REGULATION.



100% MADE IN ITALY PRODUCTS



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Our complete range of products
can be found on our website WWW.COMPARATO.COM,
and is manufactured according to UNI EN ISO 9001:2015 regulation.
Rina certification available on request. UL certification currently on call



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