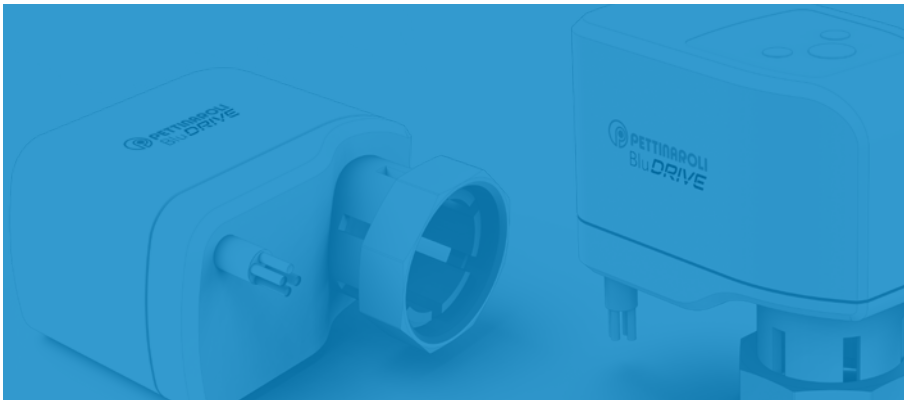
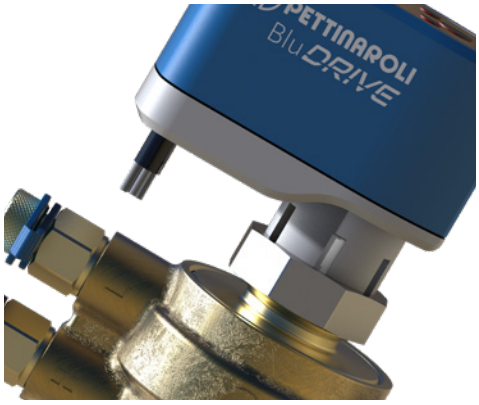
English

PETTINAROLI

BluDRIVE

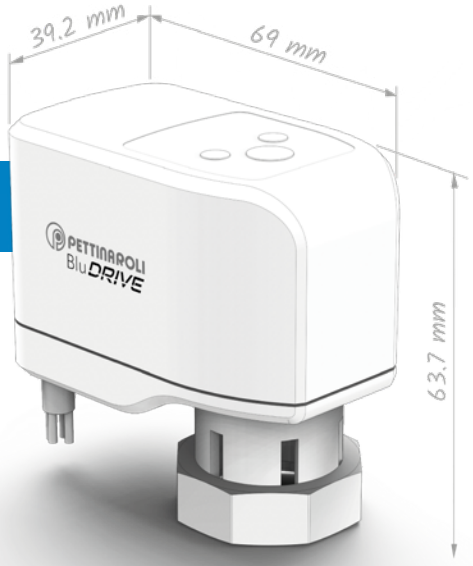




Drive ***BALANCE*** boost ***EFFICIENCY***

BluDRIVE

Compact, ***SMART***, user-friendly



BluDRIVE is the **smart all-in-one actuator** designed to balance, manage, and **maximize the efficiency** of your HVAC system.

It automatically **optimizes the flow rate** of the system, keeping the Delta T constantly stable and ensuring the **highest level of comfort and energy savings**.

A **simple** and **cost-effective** solution (compared to a fully electronic valve).

It fits all Pettinaroli threaded PICVs and fan coil valves

Integrated display for stand-alone management

Delta T control function

IP54 protection

Remote commissioning (with BMS – Modbus RTU protocol)

BluDRIVE

The ***most compact*** electronic actuator on the market, featuring ***unique technical characteristics***

THE RIGHT CHOICE FOR EVERY USER

The **BluDRIVE** range fits all Pettinaroli threaded PICVs and fan coil valves, as well as many other models available on the market, providing **scalable solutions** designed to meet the specific requirements of every user.

The series includes the following versions: **ON/OFF and Floating**, Proportional with **Feedback**, Proportional with **Feedback and Fail Safe**, and Proportional with **Delta T control**.

BluDRIVE also enables **remote commissioning** (with BMS via **Modbus RTU** protocol).

The **integrated display**, available on the proportional versions, allows independent configuration and management of readings.

In its complete configuration, the BluDRIVE actuator is equipped with **two digital temperature sensors** with M10 connection.

It can **detect and exchange** temperature data, estimate flow rate and energy consumption, detect possible system leaks, and includes a **Delta T control** function.

DYNASTY
5 YEARS WARRANTY
ON PRODUCTION DEFECTS

ECO PLATFORM EPD VERIFIED

The ***PERFECT*** match

BluDRIVE, when combined **with the Dynasty Series os PICVs**, delivers an **integrated system** that ensures constant balancing, maximum energy efficiency, and complete control of the HVAC installation.

Thanks to the **patented Dirt-Resistant diaphragm**, Dynasty maintains optimal performance even in the presence of dirty water, preserving **precision and reliability** over time.

BluDRIVE completes the system with smart electronic management of flow rate and Delta T, automatically optimizing system operation to r**educe energy consumption and operating costs**.

DYNASTY

The range of ***compact and dirt-resistant PICVs*** offering a complete selection of ***sizes and flow rates*** to adapt to any installation scenario.

Dynasty PICVs available from DN15 to DN50 (150–14,000 l/h)

Perfectly compatible with BluDRIVE, for every system requirement

Dynasty range bears EPD certification and 5-year warranty

Versions available with or without pressure ports

Dezincification-resistant brass for long-lasting durability

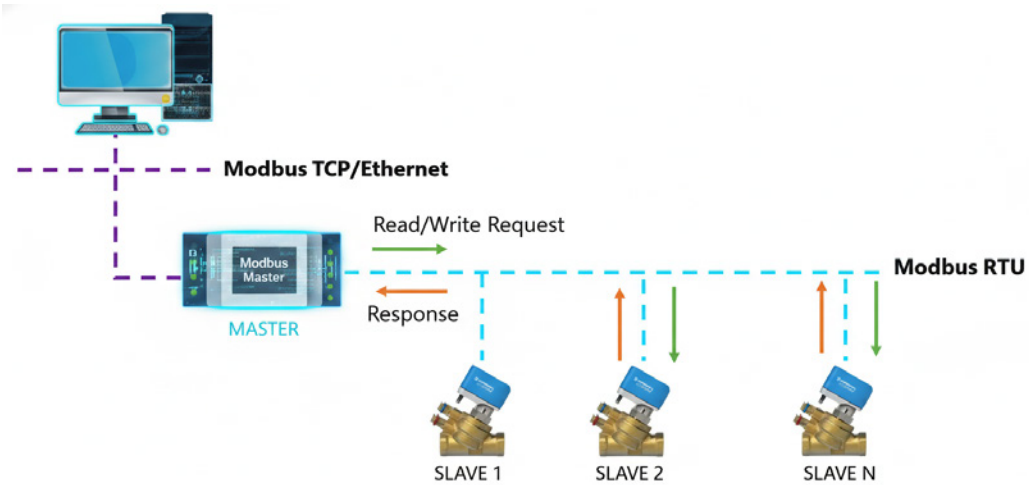
DELTA T AND EFFICIENCY UNDER CONTROL

Low Delta T syndrome is one of the most common signs of **inefficiency** in hydronic HVAC systems.

The **BluDRIVE + Dynasty** combination solves this issue by keeping the temperature difference between supply and return constant, **optimizing system performance and reducing energy consumption** of the pump.

Through the **Modbus RTU** connection, **BluDRIVE** allows **real time remote monitoring and adjustment** of all key parameters from the BMS supervision system.

Flow rate, temperature, Delta T, valve status, and system leaks are **constantly under control** ensuring continuous and precise control.



Technical specifications

	Product code VT19403 (24V) VT19203 (230V)	Product code VT194P4 (24V) VT192P5 (230V)	Product code VT194P4FS (24V)	Product code VT194DT5 (24V)
✓	Features ON-OFF and Floating	Features Proportional with Feedback	Features Feedback & Fail Safe	Features Proportional with DeltaT control
⊗	-	Electrical Manual Override	Electrical Manual Override	Electrical Manual Override
⇄	-	-	-	Protocol Modbus RTU
△	-	-	-	Delta T Manager
▭	-	Display for setting and configuration	Display for setting and configuration	Display for setting and configuration
ⓘ	-	-	Fail Safe (Electric return)	-
⚠	-	Feedback 0-10VDC / 0-20mA	Feedback 0-10VDC / 0-20mA	Feedback Position data through protocol
⊷	-	Linear / Eq%	Linear / Eq%	Linear / Eq%
⇥	-	Analog Input 0(2)-10VDC / 4(0)-20mA	Analog Input 0(2)-10VDC / 4(0)-20mA	Analog Input 0(2)-10VDC / 4(0)-20mA
⛨	Protection IP54	Protection IP54	Protection IP54	Protection IP54
⚙	Max. Mechanical Stroke 9 mm	Max. Mechanical Stroke 9 mm	Max. Mechanical Stroke 9 mm	Max. Mechanical Stroke 9 mm
⏲	Running Time 12 sec/mm, not adjustable (On-Off & Floating fixed running time)	Running Time 12 sec/mm, adjustable (On-Off & Floating fixed running time)	Running Time 12 sec/mm, adjustable (On-Off & Floating fixed running time)	Running Time 12 sec/mm, adjustable (On-Off & Floating fixed running time)
↑	Force 200N	Force 200N	Force 200N	Force 200N
⚡	Power Supply 24V AC/DC or 100-240V AC	Power Supply 24V AC/DC or 100-240V AC	Power Supply 24V AC/DC	Power Supply 24V AC/DC

PETTINAROLI

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