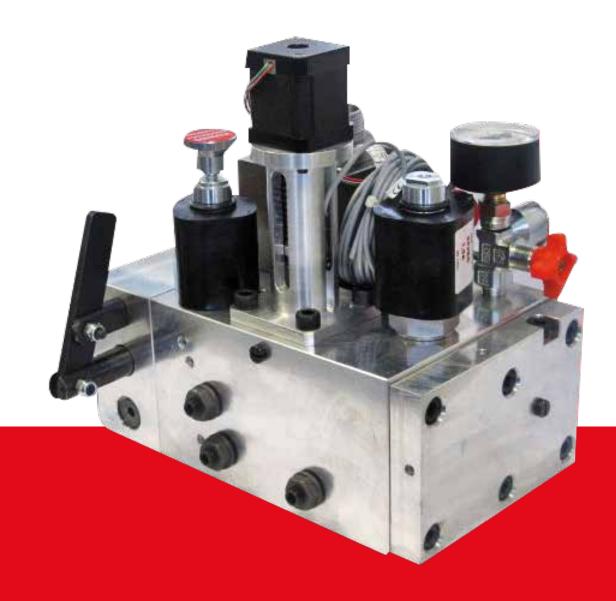
# VEM moris electronic valve









**VEM250 Electronic Valve** assures comfort in every condition and allows cost and energy savings.

#### **FEATURES**

The integration of Electronics (sensors, stepper motor and dedicated control board) has allowed to enclose **in a single product all the functionalities** required by a modern lift, limiting at the same time the need of other extras.

The valve integrates several functions:

- Pressure switches;
- Continuous control of oil temperature;
- Softstop;
- Motor-temperature sensor supervision.

It is also possible to **customize the speed values** in the different travel sequences, in order to adapt the valve to the specific application. Therefore, not only for **total comfort**, but also to minimize the travel time, especially during the deceleration phases.

The shortening of the travel time ensures a **tangible** energy saving, by reducing the motor running time.

By using different speeds in up and down directions, it is possible to reduce the installed power, without sacrificing the travel time.

Additionally, the hydraulic circuit is greatly simplified with respect to a standard mechanical valve, ensuring a **reduction of the pressure losses**.



Reduced time of travel and less pressure drop.



Compensation of load and temperature changes by software.



Travel time and speeds can be easily adjusted by the software.

### **ADJUSTMENTS**

The valve settings and start-up can be easily performed by means of a smartphone app (via Bluetooth) or with a PC software (via USB).

The parameters can be edited, saved on the board and shared. The PC software has also the **"oscilloscope" function**, **for the continuous monitoring** of the travel parameters.

In addition to the **Bluetooth and USB connection**, the board is prepared for the **CANbus connection** in order to be completely integrated within the elevator system.

The set speed is maintained constant with different load and different oil temperatures, ensuring **precise travels in every condition**.

In addition to nominal speed, it is possible to set different velocity values, so to correctly manage inspection and short intefloor distances.

The valve meets the **requirements of EN 81.20 and EN 81.50** and is certified as part of a **system against unintended car movements (UCMP)**.

Having onboard a double safety valve and a monitoring aid, it guarantees the compliance to the norms, without the need of external valves.

## **TECHNICAL DATA**

| Hydraulic Valve       |                  |
|-----------------------|------------------|
| Flow Rate             | 35÷250 l/min     |
| Pressure range        | 10÷50 bar        |
| Hose Connection       | ]", ]"¼, ]" ½    |
| Oil Type              | ISO VG 46 VI>140 |
| Oil temperature range | 5÷70 °C          |

| Electronic card MLHCU  |                        |
|------------------------|------------------------|
| Card Voltage           | 24vdc. ±10%            |
| Solenoid voltage       | 24/48/110 VDC          |
| Emergency lowering     | 12/24 VDC              |
| Digital input / output | NPN/PNP 24 VDC         |
| Connection             | CAN, USB,<br>Bluetooth |
| EMC standards          | EN12015, EN12016       |





#### **MORIS ITALIA SRL**

Sede legale / Legal head office: Via Perin Del Vaga, 12 - 20156 Milano, Italy

Sede operativa / Headquarter: Via Per Cadrezzate, 21/C - 21020 Brebbia (VA), Italy

+39 0332 984211 | moris@moris.it | www.moris.it