

VEM

MORIS ELECTRONIC VALVE

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PEW Electrical
Distributors Ltd.



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**.



ENERGY SAVING

Reduced time of travel and less pressure drop.



COMFORT

Compensation of load and temperature changes by software.



CONNECTIVITY

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	1", 1"¼, 1" 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, Bluetooth
EMC standards	EN12015, EN12016



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