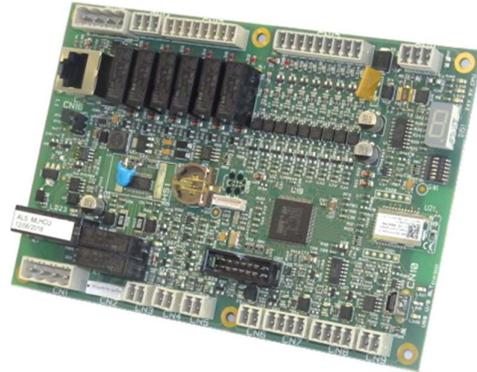


VEM – Moris Electronic Valve

Comfort and saving

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

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, soft-stop and 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.



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.

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 interfloor 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.

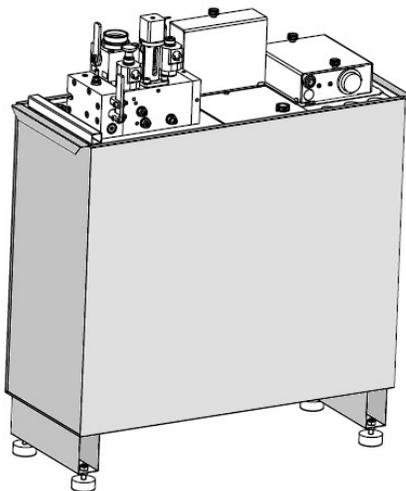
- **UCMP valve integrated:** no need of other UCMP valve
- **Improved comfort:** smooth acceleration and deceleration
- **Comfort in any condition:** compensation of load and temperature changes by software
- **Energy saving** due to reduced time of travel and less pressure drop
- **Cost saving** reducing the need of accessories like soft stop, heater or oil cooler. Pressure/thermal switches integrated
- **Hand pump** and emergency lowering on the valve
- **Easy setting:** travel time and speeds can be easily adjusted by the software
- **Control board compatibility:** designed for easily interface with standard elevator control board
- **Smart connection:** PC, Smartphone, CAN bus connection

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

Power unit with electronic valve and card



Smartphone/PC connection

