TECHNICAL SPECIFICATIONS
Ditec Valor R

Automation for single or double sliding doors up to 150 Kg and 70 mm thick with redundant panic bar and power storage in sliding door batteries installed along the emergency exits.
TÜV-certified, this system is suitable for high-traffic entrances and particularly intense, demanding use, guaranteeing rapid door opening even in an emergency, in full compliance with European safety standards.
Ditec Valor R has passed successfully 1 M cycle endurance test (TÜV certificate).
The special electrical panel that, at programmable intervals, runs periodic checks on all system components, in particular on the accessories needed for emergency opening and the exclusive single-shaft double motor (Ditec patent) ensure opening in the case of:

- power outage
- fire alarm signal
- partial or complete system malfunction.

Ditec Valor R reduces energy consumption in air conditioned rooms by independently adjusting the automatic closing time according to the flow of traffic or switching from partial to full opening until the traffic has waned.
Its anodized track, together with an anti-vibration seal, ensures particularly silent, smooth door movement and also permits easy replacement in case of wear.
With the digital display – which can be integrated into the cover or installed on the outside – all control panel functions can be set and saved for quick recovery in the case of failure; moreover, they can be exported to other operating devices.
The display can also be used in troubleshooting and maintenance since it flags faults and signals when the unit has reached the number of operations set for the maintenance alarms.
The sleek, elegant lines are enhanced by the ability to integrate the manual handle and safety sensors into the cover (both in the centre of the passageway and to the side).
The extruded aluminium automation-system casing comes in two versions: standard and reinforced, according to performance load requirements.
The main components of the Valor system – transformer, single-block traction system with direct-current gear motor complete with encoder, electrical panel, belt drive, belt, trolleys and all optional devices – are set inside the casing, secured in an orderly, easily accessible manner along special guides.
As the automatic limit switch, the encoder recognizes the mechanical stops and, in the following manoeuvres, manages speed and deceleration of the operating device.
The trolleys slide on noise-damping, self-lubricating high-quality nylon wheels.
When the door is longer than 1.6 m, the operating device is supplied with a third trolley in addition to the standard two, to better distribute the weight along the guide.
Movement is transmitted by a cogged belt made of an electrically conductive synthetic material.
Additional accessories can be installed inside:

- two position electromechanical lock that leaves the doors free when redundancy is active
- Plus board, which snaps into the panel and, among other things, enables hook up of the operating device to the fire alarm system and management of other accessories such as traffic signals, additional lighting, or air blades.

The extruded aluminium cover that encloses and encases the operating device has an exclusive seal, the thickness of which can be easily reduced by simple tearing, making it adaptable to different door thicknesses.
Special hook brackets to be secured to the wall by inserting into the special groove at the back of the casing support the operating device, making the unit quick to install.
When the space for door automation and sliding is limited, the Ditec Valor R product line also offers a version for telescopic sliding doors, where the movement of the doors is synchronized with an exclusive cable system using ropes composed of 133 steel wires.
The operating device has different types of brackets, that are both height- and depth-adjustable, to be used with framed doors made with Ditec aluminium systems, or with other commercial products (as long as they meet current standards).
A further combination of aluminium brackets and profiles has been created for full glass panels.
The system must be supplied with the function selector (digital or rotary) and, on the exit side, a dual technology self-controlled sensor to open and protect the passageway.

Main functions:

- Electronic adjustment of the forces.
- Obstacle detection system (ODS): causes the manoeuvre to stop or reverse if an obstacle is detected.
- Automatic braking and deceleration setting.
- Independent opening, partial opening and closure control.
- Adjustment of thrust forces exerted against obstacles.
- Separate speed adjustment for opening and closing.
- Separate time adjustments for automatic closing and partial opening.
- Setting of the delay between two subsequent tests of the emergency exit mode.
- Side safety sensor adjustment: if an obstacle is detected, the electronic panel can be set to stop or slow down opening.

Valor comes in the following versions:

- VALOR LR with standard casing:
  Dimensions: 175 mm x 145 mm x length of casing (max. 6600 mm)
  Load: 120 kg one wing
  220 kg two wings

- VALOR NR with reinforced casing:
  Dimensions: 175 mm x 145 mm x length of casing (max. 6600 mm)
  Load: 120 kg one wing
  150 kg one wing, with reinforced wheels
  240 kg two wings
  300 kg two wings, with reinforced wheels

- VALOR TR for telescopic sliding doors:
  Dimensions: 255 mm x 145 mm x length of casing (max. 6600 mm)
  Load: 200 kg one + one wing
  260 kg two + two wings

Technical specifications:

Power supply:	230 V AC/50-60 Hz
Motor power supply:	24 V DC/10 A
Opening/closing speed:	adjustable up to 0.8 m/s for single wing doors adjustable up to 1.6 m/s for two wing doors
Protection rating:	IP 20
Operating temperature:	-10°C / +50°C
Endurance durability:	1.000.000 (certified by TÜV)

Reference certification: Machinery Directive (2006/42/EC)
Electromagnetic Compatibility Directive (2004/108/EC)
TÜV-certified: G531/2
968/EL 817.00/12 (Performance level C)

Harmonised European Standards applied:
EN 55014-1
EN 61000-6-3
EN 61000-6-2
EN 16005
EN 60335-1
EN ISO 13849-1
EN ISO 13849-2
EN 62233
DIN 18650-1
DIN 18650-2