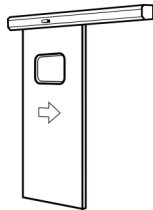


Data Sheet

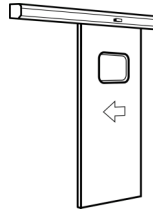
VISIO HERMÉTICO OPERATOR



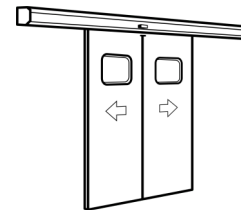
1 - DESCRIPTION



Op. Side Right (1 leaf)



Op. Side Left (1 leaf)



Op. Side (2 Leaves)

i

Operator for **hermetic automatic sliding door**, in side opening with one sliding leaf or middle with two sliding leaves versions.

The VISIO HERMÉTICO operator is a product specifically designed to guarantee high levels of hermetic sealing in clean rooms and operating theatres, thanks to its patented approximated system and pressure of the leaf over the frame.

Also, thanks to its exclusive spring-assisted return system, it allows in the event of a power failure a simple manual activation without the need for lever systems.

Given its high performance in its different LD/MD/HD versions, it is especially indicated for the activation of **radiology** doors with a weight of up to 200 kg.

And always with the smooth operation and high reliability of the Manusa Visio motorisation based on induction motors with direct drive and inverter system with independent speed and power regulation.

The VISIO HERMÉTICO operator has also been designed prioritising design to achieve:

- Greater integration of the operator in the architectural environment and lower visual impact.
- Easy assembly.
- Greater functionality: new, elegantly designed and intuitive to handle **Smart** control selector.

In addition to new technological features such as:

- Push&Go system for door opening
- Connection for fire alarm and emergency stop
- Built-in warning device.

The product also includes new possibilities as an option such as the new remote control software and management of **Manulink** door systems and the new **Openlinx** communications interface that allows integrating the door in immotic networks and building control systems.

The HERMETIC VISIO operator forms together with the **P50** Panelled Leaves and the **MK40** Hermetic Frame the exclusive MANUSA HERMETIC DOOR system, also available in a transparent version with the **H45** glass hermetic carpentry.

2 - FINISHES

The cover of the product is manufactured in aluminium, which allows all of the finishes available for this material:

Anodised:



Anodisation consists of a protective surface layer, generated from an electrolytic process. The minimum thickness is 15 microns.

Lacquerings:

Lacquering is a protective coating of oven polymerized plastic paint. The minimum thickness is 60 microns. Entire RAL range available.

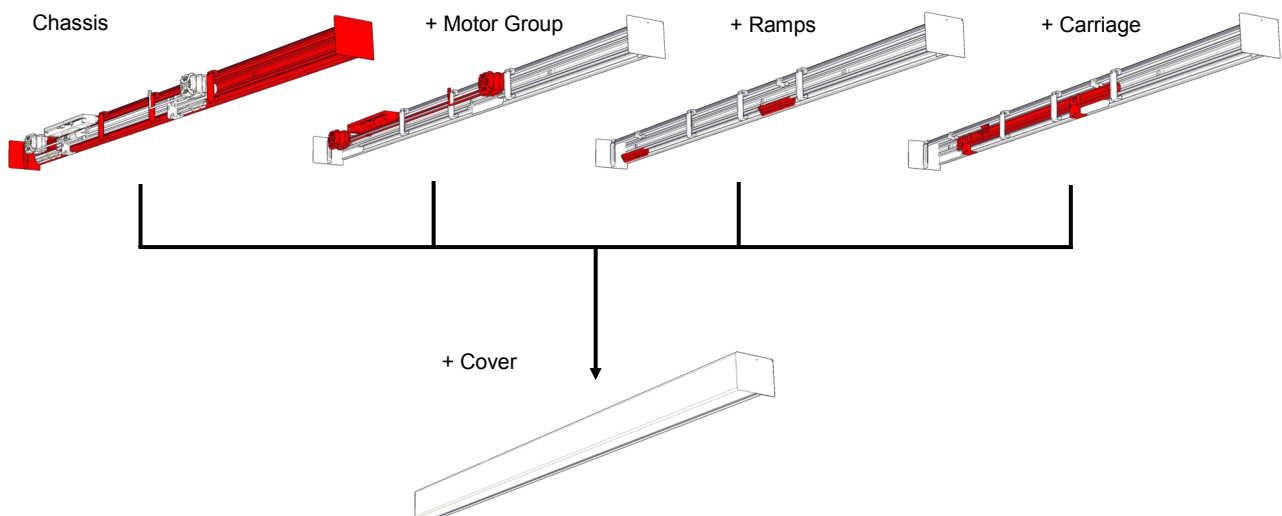
3 - VERSIONS

There are three versions according to the accepted weight:

	 Side 1 Leaf	 Central 2 Leaves
VISIO HERMÉTICO LD	Up to 1 x 90 kg	Up to 2 x 65 kg
VISIO HERMÉTICO MD	Up to 1 x 90 kg up to 1 x 150 kg	Up to 2 x 65 kg up to 2 x 90 kg
VISIO HERMÉTICO HD	Up to 1 x 150 kg up to 1 x 200 kg	Up to 2 x 90 kg up to 2 x 150 kg

4 - COMPONENTS

The operator is configured in modules:



5 - TECHNICAL CHARACTERISTICS

The **manusa** Hermetic Visio offers unique dynamic and hermetic sealing performance in the sector.

ELECTRICAL CHARACTERISTICS

Standard power supply	220-240V +/-6% 50Hz
Power supply to order	100-120V 60Hz +/-6%
Motor	2xAC. Three phase
Inverter technology (excl. Manusa)	VV-VF
Protection fuse	4 A
Operating temperature	-15 °C to 50 °C
Rechargeable antipanic batteries (open/close)	2x12 V DC 700mAh

MECHANICAL CHARACTERISTICS

Dimensions of the operator (height x depth)	175 x 220 mm
Maximum length of the operator	5900 mm
Adjustable opening speed per leaf	0.5 to 1 m/s
Relative opening speed of the 2 leaves (Middle Operator)	1 to 2 m/s
Adjustable closing speed per leaf	0.15 to 0.4 m/s
Adjustable closing force	40 N to 140 N
Maximum acceleration	2 m/s ²
Independent regulation of speed/force	Yes

LIMITS SIDE DOOR 1 LEAF

Maximum Clearance	1800 mm
Minimum Clearance	495 mm
Maximum Height Clearance	2400 mm

LIMITS CENTRAL DOOR 2 LEAVES

Maximum Clearance	2660 mm
Minimum Clearance	1070 mm
Maximum Height Clearance	2400 mm

HERMETIC SEALING CHARACTERISTICS of Sliding Hermetic Doors (Operator+Leaf+Frame)

Air permeability class	Class 6 according to EN 12426
Relative air permeability (15 Pa of overpressure)	0.23 m ³ /m ² h

APPLICABLE DIRECTIVES AND STANDARDS

Low voltage	2006/95/EC
Electromagnetic compatibility	2004/108/EC
Construction products	89/106/EC
Machinery	2006/42/EC
Detection devices	UNE-EN 12978
Automatic pedestrian doors. Usage safety	EN 16005

6 - SAFETY CHARACTERISTICS

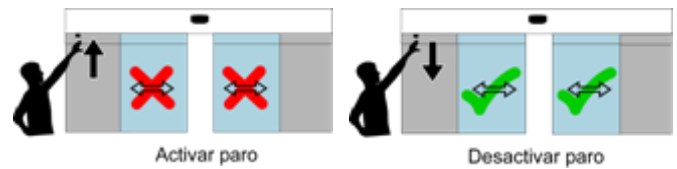
The **manusa** HERMETIC VISIO operators have new technological features such as:

- **Earthing**
 - Standard, the operator allows the electrostatic discharge of the leaf in the end positions.
 - The discharge chain system is optionally available as an accessory for earthing in the door's entire travel.

- **Connection for fire alarm**
 - In the event of a fire and to make evacuation easier, the alarm signal can make the door open.



- Emergency stop (optional)



- Although regulations do not require this as it is a low risk machine, the movement of the door can be stopped immediately activating a pushbutton

- Opening movement protection (optional)

- The operator is designed to manage the signal of the presence sensors in the opening area.



- An intermittent acoustic signal warns the pedestrian when he/she is in the opening area of the sliding leaves.
- If the door is opening, its opening is slowed down.

Other characteristics worth mentioning about the **manusa** VISIO HERMÉTICO operator are:

- **Limitation of closing force:**

- The drive of the motors is electronically regulated so that they do not exceed safe values for people.

- **Obstacle detection:**

- When closed, the closing movement is reversed (reopening)
- When opened, the opening movement is stopped.

- **Up to 3 self-supervised photocells:**

- A fault in a photocell does not make the door close.

7 - COMPATIBILITY WITH LEAVES AND HERMETIC FRAMES

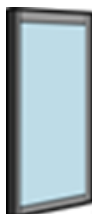
The Visio Hermetico operator forms together with the available leaves and hermetic frames, the exclusive **Manusa Hermetic Door** system, that is marketed together.

The following versions are available:

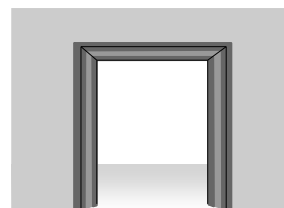
**Panelled Leaf
P50**



**H45 Aluminium
frame**








Frame MK40



8 - ACCESSORIES

The Visio Hermético operator is compatible with a wide range of **manusa** accessories:

OPENING CONTROL	SELECTORS
<p>- Smart-Prox proximity detector</p> <p>Allows a totally hygienic activation of the hermetic door as there is no type of contact. The detection distance is configurable.</p>  <p>- Elbow button</p> <p>Allows a totally hygienic activation of the hermetic door. It is available in white and silver and surface and embedded versions .</p>  <p>- Opening button</p> <p>- Exterior key</p> <p>- Coded numerical keypad</p> <p>- GRF wireless range for wireless installation:</p> <ul style="list-style-type: none"> · Opening button · Elbow button · Exterior key · Coded numerical keypad · 2/4 channel remote control · RFID tag and trigger 	<p>- Smart Selector</p> <p>Allows locally controlling door modes and giving alarm modes thanks to its LCD display.</p>  <p>- Óptima Selector (with optional remote control)</p>
	SAFETY
	<p>- Electrostatic discharge chain</p> <p>- Electromechanical lock with unlocking</p> <p>- Cover lock</p>
	DETECTION
	<p>- Infrared sensor</p> <p>- Built-in infrared sensor</p> <p>- Planar radar</p> <p>- Safety photocell</p> <p>- Infrared sensor to protect the opening movement</p>
CONTROL AND COMMUNICATIONS	SMART DOOR
<p>- Openlinx</p> <p>Device for connection to immotic systems and communications buses. Also allows individual remote control thanks to its webserver</p>  <p>- Software Manulink 2.0</p> <p>Exclusive software for the centralised control of a door system from a PC.</p>  <p>- I/O interface for making locks and special functions</p>	<p>- ASD audio system</p> <p>- Integrated led display</p> <p>- Clearance lighting</p> <p>- Crowd control and people counting system</p>

NOTE: The characteristics indicated in this document are purely informative, and not in any way contractual.

The manufacturer reserves the right to modifications without prior notice.

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manusa 

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