

**Valor (H)**

Automatic heavy duty  
pedestrian doors and/or for controlled  
atmosphere environments

ENG



Advanced entrance technology

## Automation designed for specialist environments

**Valor, with its broad range, offers solutions which are particularly suited to sectors where specific characteristics are deemed indispensable.**

Valor is especially suitable for:

### Hospital / healthcare environments

- controlled atmosphere environments (hospitals, clinics, rehabilitation centres, care homes, disabled centres, rest homes, multi-purpose surgeries, doctors' surgeries, dentists' surgeries)
- operating theatres
- radiology rooms
- clean rooms

### Other sectors

- pharmaceutical industry
- recording rooms and sound-insulated environments
- electronics laboratories
- analysis laboratories (pharmaceutical and/or chemical sector)
- applications on ships
- applications with heavy wings

### Valor H

automation for doors with seals, where the wing provides for partial seal (on 2 sides), with a specially designed guard.

### Valor HS

this automation is similar to the previous one, but with greater carrying capacity.

### Valor HH

this automation is hermetically sealed on all four sides, and the wing – on closing – drops and slides to compress the seal against the jamb along the perimeter.



## The utmost benefits of advanced technology

Valor automations feature significant new characteristics.

### Super silent operation

All versions feature super silent operation, thanks to the anti-vibration seals, making them ideal for environments where comfort, silence and a warm welcome are indispensable and fundamental requirements.

### Maximum hygiene

The rounded guard and the screwless visible heads prevent dust from building up, making cleaning easy. Electrostatic energy that may have accumulated on the moving wings is permanently discharged, thus avoiding the build-up of dust too. Automatic doors must guarantee freedom of movement in absolute hygiene and safety both for patients and healthcare workers, avoiding manual contact with the actual doors.

The entire Valor H range accommodates these needs fully.

### Maximum safety

The motion detectors can be built into the automation and concealed. Consequently, they prevent the classic build-up of dust on elements outside the guard.

They also ensure protection not only of the passing space but also in the side opening movement of the wings, avoiding accidental knocks with unforeseen obstacles. They are indispensable when stretchers and wheelchairs are passing and may not be detected by traditional photocells.

### Maximum capacity

The capacity of the HS version makes it possible to automate heavy wings. They are especially suitable for the radiology sector where X-ray screened wings are required, with lead protection which makes for very heavy doors.

### Maximum availability of finishes

Valor automatic entrances are available in all RAL colours, in anodised finishes (from natural silver to polished titanium) with panels surfaced in HPL laminate in the Abet/Print range of colours.

Valor HS and HH can also be equipped with AISI 304 stainless steel guards in Scotch Brite finish.



### Entrance example

#### Valor H Automation for doors with vertical hermetic and horizontal semi-hermetic closure

The wing enables a partial seal, with a stop on the frame's vertical jambs and contact on the lintel and the floor.



#### Valor HS Automation for doors with vertical hermetic and horizontal semi-hermetic closure

The wing enables a partial seal, with a stop on the frame's vertical jambs and contact on the lintel and the floor.

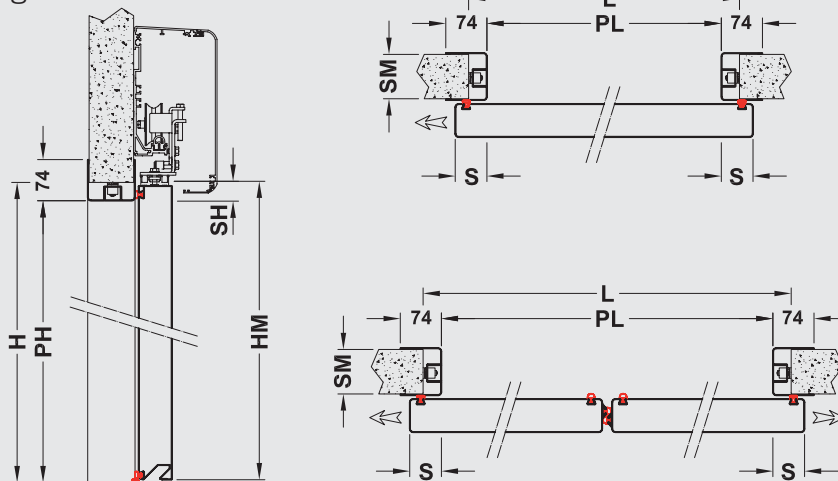


#### Valor HH Automation for doors with hermetic closure on all 4 sides

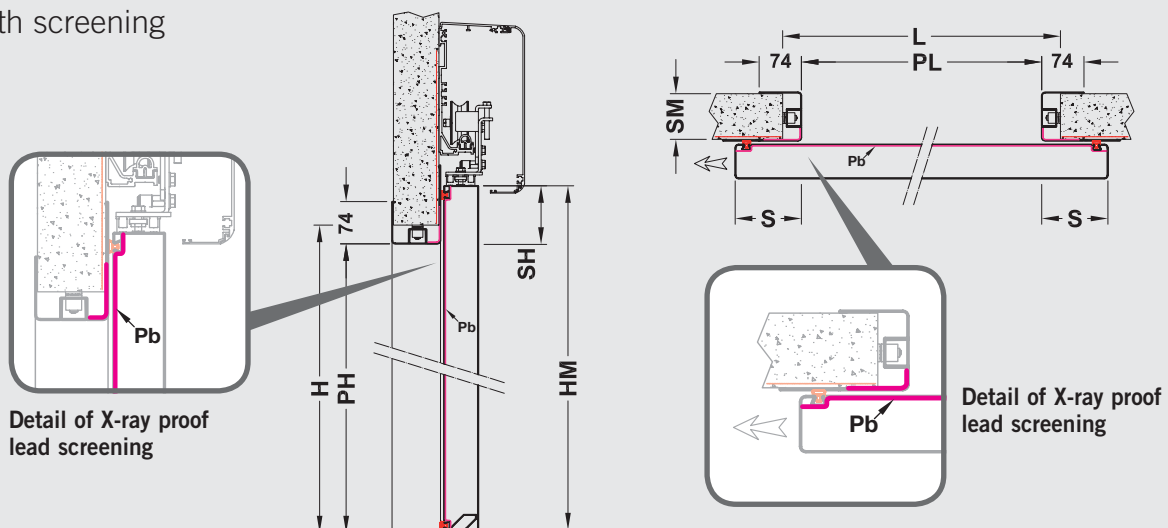
As it closes, the wing moves vertically and horizontally to press against the seals along the entire perimeter of the frame and on the floor.



### Without screening



### With screening





# DITEC sliding doors: Automation, dedicated frames and accessories

## Painstaking care for details

Together with its automations, DITEC provides a complete range of frames and accessories dedicated especially to special applications and controlled atmosphere environments.



## Pam H60 HPL laminate and AISI 304 stainless steel laminate panels



Wing for sliding door consisting of rounded extruded aluminium frame and panel. Wing thickness 60 mm with non-toxic silicon perimeter seals. The external profile is perfectly flush fitting and sealed with non-toxic silicon.

The internal panel consists of a sandwich of two HPL laminate plates, plus two 5 mm thick MDF class 1 fireproof panels and an extruded high-density self-extinguishing polyester sheet.

The panel can be surfaced with melamine laminate or AISI 304 stainless steel laminate in Scotch Brite finish.



## Pam H60 Stainless steel frame



Wing for sliding door made entirely of press-formed AISI 304 satin stainless steel in Scotch Brite finish, 60 mm thick, featuring a very wide radius and non-toxic silicon perimeter seals.

The interior of the wing is reinforced with polyurethane foam.

The frame is made of AISI 304 satin stainless steel in Scotch Brite finish to cover the ridge of the sliding doors.

The frame has a U-section, which also features a very wide radius, and is made in three pieces.



## Pam H60 Framed wing with double glazing



Wing for sliding door consisting of rounded extruded aluminium frame and double glazing. Wing thickness 60 mm with non-toxic silicon perimeter seals.

The wing profile is equipped with a purpose-designed adapter which allows for the glazing to be fitted and clicked and secured in place with purpose-provided glazing beads.

The dimensions envisaged are accomplished using two plates of 3+3 transparent laminated accident-proof glass 3+3 with an intermediate chamber of 20 mm.



**A** Can be fitted with a round or rectangular window. The window is fully flush fitted into the wing and sealed with non-toxic silicon injected all around the perimeter.

**B** Can be constructed with 1, 2 or 3 mm lead strips for X-ray screening and a handle to move the wing.

**C** The sliding door frame is made of rounded extruded aluminium on three sides of the compartment to achieve a wall thickness of a minimum of 80 mm where photocells can also be housed.

DITEC dedicated frames ensure the entire system is sturdy and reliable.

The rounded profiles (in both aluminium and stainless steel), the panels and the inset windows flush with the exterior without any ledges prevent the build-up of dirt and make for easy cleaning and improved hygiene.

The frames are equipped with silicon seals (non-toxic).

These seals (where envisaged) are inset into the wing without any additional profiles. This enhances the attractive styling while providing more efficient cleanliness and hygiene.

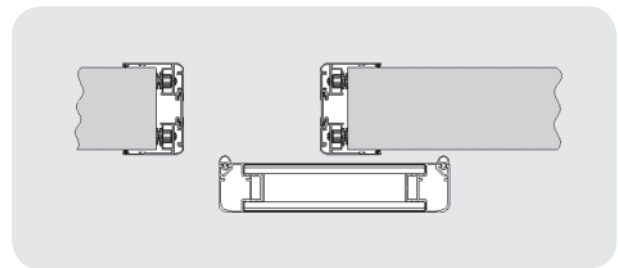
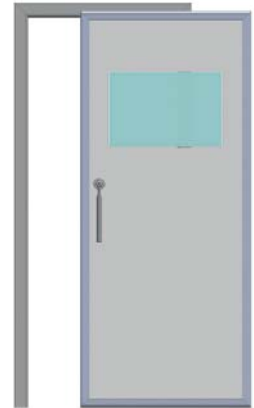
The floor runner was also designed to cover the fixing screws and not only to improve the appearance but also to ensure easier cleaning. Indeed, it prevents the build-up of dirt on the screws and is easier to clean.

### Maximum availability of finishes

Valor H automatic entrances are available in all RAL colours, in anodised finishes (from natural silver to polished titanium) with panels surfaced in HPL laminate in the Abet/Print range of colours and in Scotch Brite finish in the AISI 304 STAINLESS STEEL versions.

### Pam H60. Frames with hermetic seal or partial seal

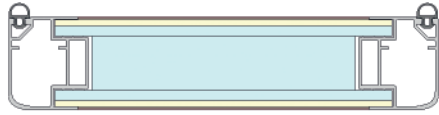
The entry system includes teaming automation with dedicated frames, with different types of wing, frame and cornice, to meet the technical specifications required by the environment of use.



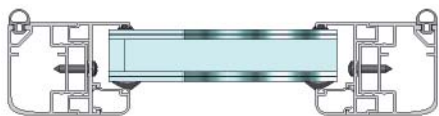
# DITEC sliding doors: Automation, dedicated frames and accessories

## Wing general features

- Rounded profiles to facilitate cleaning
- Non-toxic silicon seals
- Wing thickness 60 mm
- Profiles sit flush with the internal panel and window



**Framed wing:** perimeter in extruded aluminium and internal panel surfaced with HPL laminate or AISI 304 sheet with Scotch Brite finish



**Wing with window:** perimeter in extruded aluminium and double-glazing (3+3/20/3+3)



**Stainless steel wing:** external structure in AISI 304 stainless steel with Scotch Brite finish

## Wall frame general features

- Rounded profiles to facilitate cleaning
- Wall thickness from 80 to 400 mm
- Designed to accommodate photocells
- Easily mounted and adjusted



**Frames:** aluminium profiles with compensation sheet



**Cornice:** aluminium perimeter profile for finished walls



**Stainless steel frames:** measured profiled sheet in AISI 304 with Scotch Brite finish

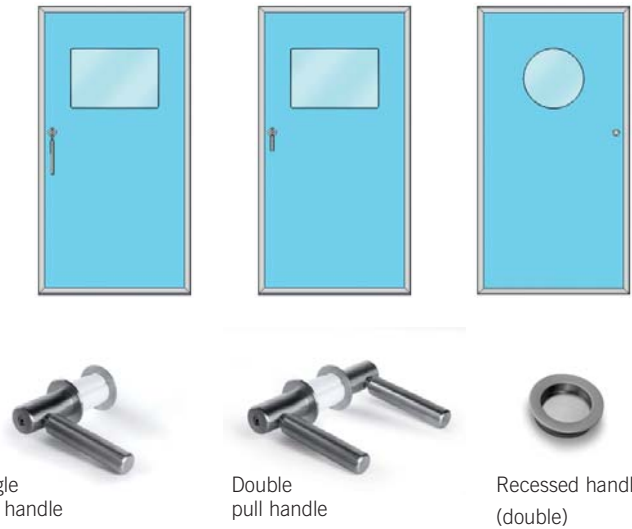


## Accessories

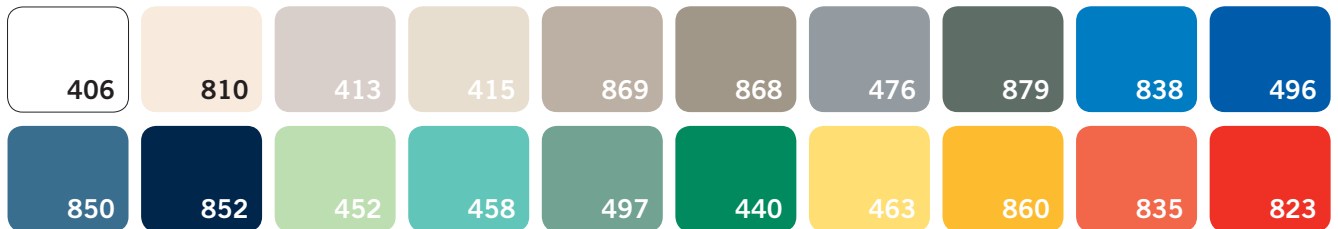
### Accessories

- Flush-fit 600 x 400 mm rectangular window
- Flush-fit ø 400 mm circular window
- 1, 2 or 3 mm thick lead screening
- Rising pull handle

For further details: please refer to the DITEC price list.



### Examples of most popular wing colours



Colours printed on paper may not match the original; please therefore refer to the official tables, also when choosing any custom colours.





# The excellence of the DITEC system PAM H60 permeability test

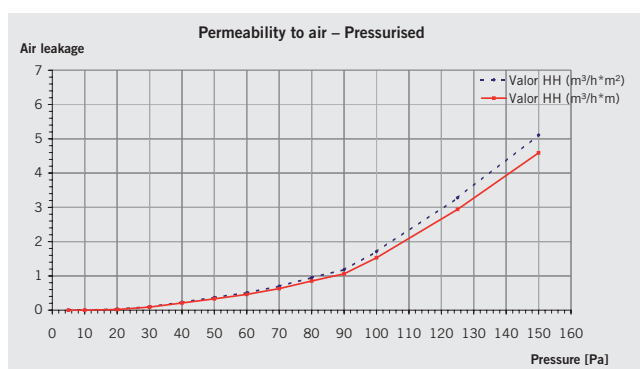
The complete system, made up of “Valor HH” operator and “PAM H60” frame with hermetic closure, 1 wing, offers excellent seal performance, as certified by laboratory results.

The tests performed, in conformity with the specific standards, show results that guarantee excellent air-tightness in conditions of both pressurised and depressurised environments.

The results shown are expressed on the basis of both the perimeter and the area of the wing and are extendable to all the configurations detailed in the price list.

## Pressure test

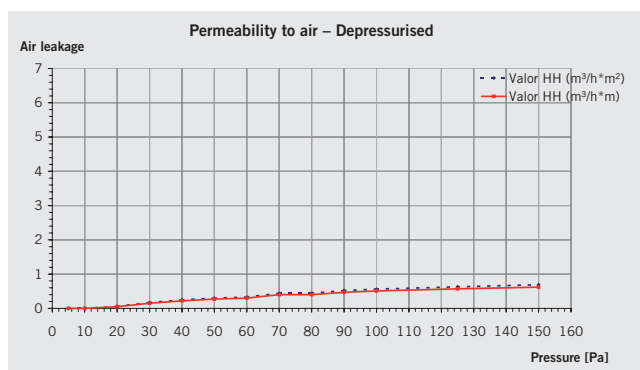
Pressure [Pa]	Air leakage $m^3/h \cdot m^2$	Air leakage $m^3/h \cdot m$
5	0	0
10	0	0
20	0.03	0.02
30	0.1	0.09
40	0.23	0.21
50	0.37	0.33
60	0.51	0.46
70	0.7	0.63
80	0.95	0.85
90	1.18	1.06
100	1.71	1.53
125	3.28	2.94
150	5.11	4.59



Pressure test:  
Class 3 - Ref. UNI EN 1026 – UNI EN 12207  
Class 5 - Ref. UNI EN 12426 – UNI EN 12427

## Depressure test

Depressure [Pa]	Air leakage $m^3/h \cdot m^2$	Air leakage $m^3/h \cdot m$
5	0	0
10	0	0
20	0.06	0.05
30	0.17	0.15
40	0.25	0.22
50	0.3	0.27
60	0.33	0.3
70	0.44	0.4
80	0.44	0.4
90	0.52	0.47
100	0.56	0.51
125	0.63	0.57
150	0.69	0.62



Depressure test:  
Class 4 - Ref. UNI EN 1026 – UNI EN 12207  
Class 5 - Ref. UNI EN 12426 – UNI EN 12427

Full certificate no. 324/10 dated 15/03/2010 is available on request



# PAM H60 frame

## Summary of combinations






		LAMINATE PANEL		STAINLESS STEEL PANEL (AISI 304)		GLASS PANEL	
PAM H60 GENERAL FEATURES	Passing space	(PL) 900 - 1800 1 wing	1200 - 2200 2 wings	900 - 1800 1 wing	1200 - 2200 2 wings	900 - 1800 1 wing	1200 - 2200 2 wings
		(PH) from 2100 to 2500		from 2100 to 2500		from 2100 to 2500	
	Door thickness	60 mm		60 mm		60 mm	
	Door frame	Aluminium door frame [designed by DITEC]		Core: polystyrene Surface cover: stainless steel plate		Aluminium door frame [designed by DITEC]	
	Internal panel	Core: extruded polystyrene plate Intermediate layer: MDF Surface cover: HPL laminate or stainless steel				Core: double glazing (3+3 / 20 / 3+3)	
Seal	Silicon		Silicon		Silicon		
ACCESSORIES	Curtain					Motorised or manual curtain ***	
	Window	600 x 400 mm [default dimensions] ø 400 mm [default dimensions]		600 x 400 mm [default dimensions] ø 400 mm [default dimensions]			
	Handle			Fixed handle: MAN 1 - MAN 2 * Mobile handle: MAN A1 - MAN A2 * Flush-fit handle: MAN I **			
	Protection against radiation			1, 2 or 3 mm thick lead strip			




\*AISI 303 stainless steel \*\*Aluminium \*\*\* Only on request



## Technical features and system functions

Technical features			
Description	VALOR H	VALOR HS	VALOR HH
Description	Automation for sliding doors for hospitals	Automation for heavy sliding doors	Automation for hermetically sealed sliding doors
Special uses	wing with seal for hospitals	wing with seal for hospitals	wing with hermetic seal for hospitals
Travel control	encoder	encoder	encoder
Maximum capacity	100 kg (1 wing) 180 kg (2 wings)	class 4: 200 kg (1 wing) 340 kg (2 wings)  class 5: 170 kg (1 wing) 300 kg (2 wings)	200 kg (1 wing) 200 kg (2 wings)
Capacity with 2 wheels per runner		class 5: 300 kg (1 wing) 360 kg (2 wings)  class 6: 220 kg (1 wing) 300 kg (2 wings)	
Capacity with 3 runners		class 4: 450 kg (1 wing) 500 kg (2 wings)  class 5: 350 kg (1 wing) 400 kg (2 wings)	
Service class	5 - highly intensive	4 - intensive 5 - highly intensive 6 - continuous	4 - intensive 5 - highly intensive 1 wing < 160 kg / 2 wings < 160 kg
Intermittence	S3 = 100%	class 4: S2 = 20 min S3 = 30%  class 5: S2 = 60 min S3 = 60%  class 6: S3 = 100%	class 4: S2 = 20 min S3 = 30%  class 5: S2 = 60 min S3 = 60%
Power supply	 230 V~ / 50-60 Hz	 230 V~ / 50-60 Hz	 230 V~ / 50-60 Hz
Insulation class	class 1	class 1	class 1
Absorption	1 A	1 A	1 A
Maximum opening speed	0.8 m/s (1 wing) 1.6 m/s (2 wings)	0.5 m/s (1 wing) 1.0 m/s (2 wings)	0.5 m/s (1 wing) 1.0 m/s (2 wings)
Maximum closing speed	0.8 m/s (1 wing) 1.6 m/s (2 wings)	0.5 m/s (1 wing) 1.0 m/s (2 wings)	0.5 m/s (1 wing) 1.0 m/s (2 wings)
Release for manual opening	with a handle	with a handle	
Operating temperature	-20°C / +55°C (-10°C / +50°C with batteries)	-20°C / +55°C (-10°C / +50°C with batteries)	+2°C / +55°C (+2°C / +50°C with batteries)
Degree of protection	IP 20	IP 20	IP 20
Product dimensions	175 x 145 x L	150 x 300 x L	150 x 300 x L
Control panel	EL20 (incorporated)	EL32 (incorporated)	EL32 (incorporated)

## System functions

Description	EL20	EL32
Control panel	for VALOR H doors	for VALOR HH and VALOR HS doors
Mains power supply	 230 V~ / 50-60 Hz	 230 V~ / 50-60 Hz
Batteries (allowing operation in the event of a power failure)	■ (optional)	■ (optional)
 Energy saving	reduced consumption during use	reduced consumption during use
Number of motors	1	1
Motor power supply	24 V= / 10 A	24 V= / 15 A
Accessories power supply	24 V= / 0.5 A	24 V= / 0.5 A
Electrolock	24 V= / 1 A	24 V= / 1 A
Courtesy light	■ (with MP1)	■ (with MP1)
Encoder (speed and deceleration control)	■	■
Force adjustment	electronic	electronic
ODS - Obstacle detection (causes halt or reverse movement if an obstacle is detected)	■	■
Speed adjustment	■	■
Braking / Deceleration (allows optimal closing)	■	■
Opening command	■	■
Push opening	■	■
Partial opening command	■	■
Closing command	■ (with MP1)	■ (with MP1)
Timed automatic closing	■	■
Stopping safety	■	■
Inversion safety	■	■
Safety Test function and safety monitoring	■	■

When building the system, only use DITEC accessories and safety devices.

DITEC automations all feature CE marking and are designed and built in compliance with the safety requirements of the Machinery Directive (2006/42/EC), of the Electromagnetic Compatibility Directive (2004/108/EC) and of the Low Voltage Directive (2006/95/EC) and of other Directives, laws, specific standards for special products and situations.

DITEC S.p.A. reserves the right to make changes which may improve the products. DITEC S.p.A. always strives to improve its products. For this reason, the technical details featured in this catalogue are not binding.

The pictures shown in this leaflet were taken with the consent of those concerned or in public locations.

Further information can be found in the Technical Manuals available at the website: [www.ditec.it](http://www.ditec.it)



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