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BLUE WEST
GmbH

Hermetic Door Solutions (BWH)

Access Solutions Consulting
& Sales Company

For impressive entrances
For high quality solutions
For many applications



Hermetic Door Solutions – BWH

BWH – Hermetic automatic door solutions for environments with special requirements

BWH – Hermetic modular door systems for clean room conditions

The BWH series of automatic door models are used when there are requirements for hermetic seals with clearly defined properties.

Special doors for use in clean room conditions

It is often the case in the medical field, for instance in operating theatres, that our doors support the maintenance of a sterile environment by their hermetic closing and easy-to-clean qualities. These tightly closing sliding doors are available as single or twin leaf models.

The basic models in the BWH series are the BWH-1, a single leaf sliding door, and BWH-2, with two leaves. A large range of materials are available for the door leaf core and surface finishes, as well as the design of the door frames and sealing system, enabling a wide field of applications.

Selectable features

- Hermetically tight closing.
- Hygiene-friendly surfaces.
- Noise-dampening door leaf core.
- Radiation protection inserts are available in a range of lead equivalent values.
- Water resistant materials for use in damp areas.
- Smoke and fire protection function.

By building on the basic model, many variants for special applications can be created. Protection against electrons, X-rays and gamma rays can be provided with the addition of a full-surface lead insert in the door leaf, in the inside of the frame profiles as well as in the plinth itself. This radiation protection is available in lead equivalents of 0.5 mm increments, and the door is available as a single or double leaf sliding model.

With modified seals and a heat-absorbing core, the basic BWH-1 becomes a certified smoke control door. Add a fire retardant core and additional intumescent seals, PVC covered to fulfil hygiene requirements and this model becomes a fire door with combined smoke protection, fully compliant with EI30 norms and standards.



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Our door leaves are finished in high-pressure laminate (HPL) as standard. This durable, easy-care material is available in many colours and patterns, and enables the doors to blend harmoniously into the overall design, or introduce contrasting design touches. Optional are stainless steel, galvanized sheet steel and glass inserts of different dimensions; even all-glass versions are possible.

Operation

The hermetically tight closing doors roll on a track in the upper area, while the door leaf is guided at the bottom by three flat cams, fastened appropriately. The cams are rotatable both to reduce friction and minimize noise. Shortly before reaching the closed position, the door lowers on the track downward and toward the wall by a few millimetres, thereby exerting pressure on the door seals, which press against the sealing surfaces to produce the hermetic seal. Being flexible, the lower seal can to some extent compensate if the floor surface is not completely level and flat.

Options

In addition to a variety of surface finishes and customized door leaf cores, the doors can also be fitted with various sizes of windows, integrated blinds and even laser protection according to requirements. Also, mechanical or electrical locks are available, as well as various models of cantilever-type handles.

Variants

If no hermetic separation is required, the doors can also be supplied with a slightly modified door leaf. Due to the elimination of the hermetic closed position, optical changes occur to the lower leaf guides and the path of the door. Otherwise, the visible similarity to the BWH-1 / BWH-2 series remains, enabling homogenous designs to be implemented.

On the basis of the non-hermetic closing BWH-1, we can also integrate a guide frame into the closing system. This model, marketed by us as the BWH-3, is also available with various options and protective features.

The program is rounded out by additional elegant, space-saving telescopic sliding doors, as well as by **single-or** double-leaf swing doors, in case there is insufficient passage space available to use sliding doors.



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Specifications

Basic data	BWH-1A (one-sided) / BWH-2A (double sided)
Opening width (A)	up to 3000mm (wider on request)
Clear height of passage (G)	up to 3000mm (higher on request)
Total height	G + 305mm (steel version 330mm)
Housing dimensions automated	
T x H without locking device	120mm x 252mm
Maximum door leaf weight	
BWH	1 x 220 kg / 2 x 110 kg (higher weights available on request)
Environmental Conditions	
Basic data	
Temperature Range	-15° bis +50° C
Humidity Range	85 % rel. humidity, non-wetting



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Specifications:

General Technical Characteristics

Door Leaf	
Strength	40 mm, deviating for special designs
Door Frame Profile	anodized aluminium profile, reinforced if necessary.
Surface	HPL laminate or solid material, stainless steel, powder coated or galvanized sheet steel, lead inserts available in different strengths.
Core	Tubular or solid chipboard, polystyrene foam, ESG.
Seal	All-round rubber seals recessed into the door leaf.
Frame	
Quality of materials	HPL or steel surfaces with aluminium corner protectors for the profiles, stainless steel.
Motor and Drive	
Motor Output	up to 500 W
Transmission	Worm gear
Drive	Toothed belt
Functional Safety	
Speed	Selectable from 0.03 – 0.5 m / s
Humidity Range	85 % rel. humidity, non-wetting
Complies with norms and conditions	EN 16 005, EN 18 650, EI 30: EN 13 63-1, EN 16 34-1, EI 30, EI 60

Thank you for your attention