



# HC-MSD

## Mechanical Seal Door

PBSC provide installation, servicing, technical advice, product selection and demonstrations for clean controlled environments with **Innovation, Design and Quality** at the heart.

PBSC manufacture high quality clean room, high containment and material decontamination products. When you need areas and staff to be contamination free and protected from pathogens, you need dependable equipment which will maintain critical biosafety levels, achieve sterility and protect data reliability.

Complying with local and global regulations PBSC's products can be designed to meet your specific requirements. Over 30 years knowledge and competence within the specialist sectors, always going through extensive research and development and offering accurate assistance during project planning to consultants, architects and end users to deliver successful projects.



### Innovation

Incorporating your requirements to create product ranges to exceed expectations



### Design

Leading the way with pioneering design, ensuring customer requirements are achieved



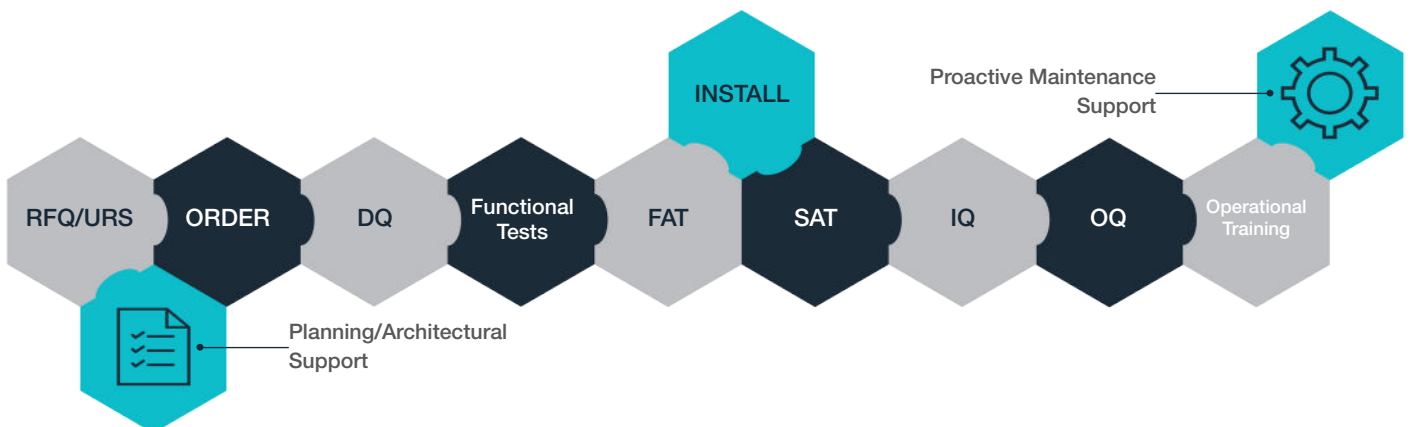
### Quality

Delivering high quality products for over 30 years, with rigorous testing and inspection

### PBSC is the accepted benchmark by which others are measured...

The search for innovative design, an eye for detail and advanced manufacturing techniques has seen PBSC gain a deserved reputation as the premier supplier within cleanroom environments.

Supporting the customer throughout the process continuing to meet the growing challenges and striving for continual improvement with our ISO 9001 QA processes independently audited and updated on a regular basis.



## Description



PBSC's APR Mechanical Seal doors for high containment facilities, are designed to create a reliable airtight barrier. This is achieved by using a robust yet flexible seal manually compressed against the doorframe. The seal doesn't need compressed air, making it a fail-safe option in case of a power outage.

The Mechanical Seal Door Set works for all containment applications, with stainless-steel and machined HPL door leaves as options. Both door leaves are tested up to 2500PA (10" W.G.). The door set can be connected to an access control system if required.

The door frame features an easy use stainless steel arm used to compress the combed edge against the seal. This mechanical mechanism is installed within the frame, which ensures the door is lighter and easier to maintain.

Operating the door is easy and can be done with one hand from either side of the door.

The door has a raised threshold for the seal at the bottom of the door, minimum 22mm. If a flush threshold is required, please see the PBSC pneumatic seal door models.

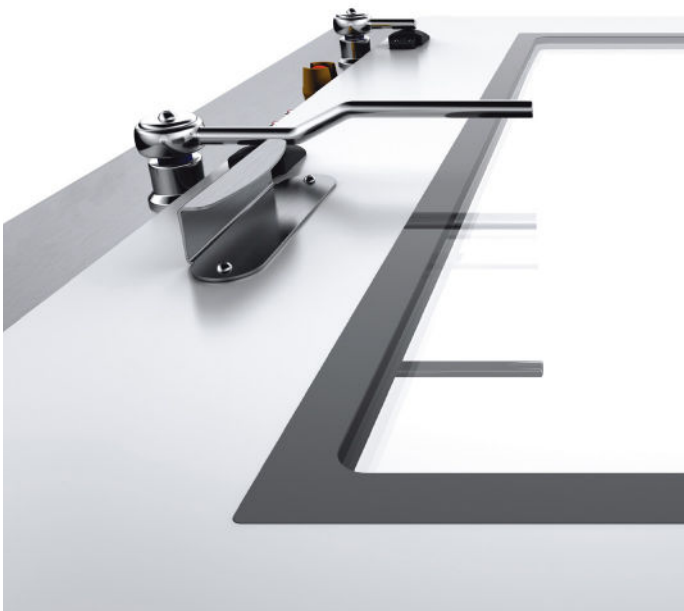
Designed to install into a range of wall types, including cast concrete, block, stud and partition systems.

## Applications



PBSC's range of mechanical seal door sets are used in applications where high containment is required, such as BSL3 and BSL4 labs. With the raised threshold these doors create a natural bund, assisting the containment of liquid during washdown.

**Access Control** - Door control is typically the building access control system. PBSC control panel available on request.



## Leakage Rates



Typical pressure loss at SAT of 23Pa over 30 minutes, with a starting pressure of 500Pa, test data available up to 2500Pa pressure difference.

## Options



- Interlock Systems
- Vision Panel cover
- Low-level sampling port
- Threshold ramp to assist wheel traffic
- Deeper threshold to create a large bund for washdown or shower areas
- 304 or 316 Stainless Steel

## Key Features



- Robust, fail-safe design
- Easy One-handed operation, with 3-point compression
- Low maintenance
- Mechanism is mounted in the door frame for more robust design
- Stainless steel or solid core door HPL leaf
- Flush glazing to both sides of the door leaf
- Configurable button sets and LED indicators



## PBSC Staying in Control of Controlled Environments

Established in 1987 **PBSC** has become one of the leading manufacturers of clean room, high containment and material decontamination products throughout the world and having the extensive product range and bespoke designs and assembly capabilities can meet customers needs.

Providing high quality products and services to the pharmaceutical, medical research, high containment and hospital sectors, offering quick and accurate assistance during project planning to consultants, architects and end users.

**PBSC** have agents and representatives in most countries to provide excellent local support and logistical services to make sure your products arrive on time.

Products include;

- Clean Room Doors
- Pneumatic Inflatable Seal /Airtight Door Sets
- Mechanical Seal / Airtight Doors
- Material Decontamination Chambers
- Transfer Hatches / Cleanroom Pass Through
- Fogging Showers / Mist Showers
- Air Showers

[www.pbsc.co.uk](http://www.pbsc.co.uk)  
[www.pbsc-inc.com](http://www.pbsc-inc.com)

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