



# 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



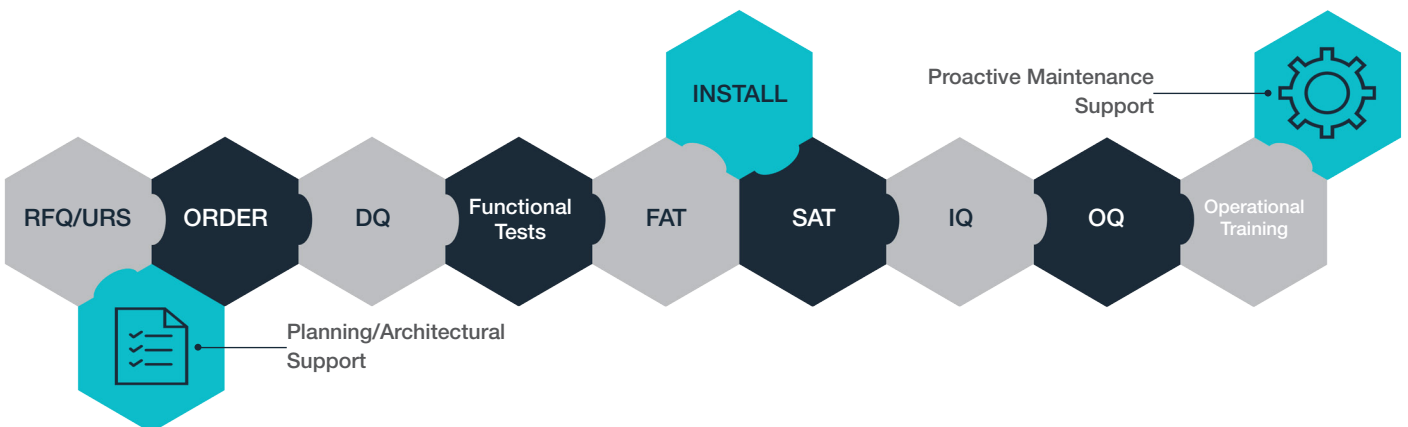
### Quality

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 high containment APR doors create a dependable airtight barrier by using a strong but flexible seal that is compressed against the doorframe. Manual compression of the seal doesn't require compressed air, thus providing a fail-safe seal in the event of a power failure.

Mechanical seal door sets are applicable for all containment applications, both stainless-steel or machined HPL door leaves are available, both door leaves are tested to 2500PA (10" W.G.). The door set can be linked to an access control system if required.

An easy use stainless steel arm is used to compress the combed edge of the frame against the seal. The mechanical mechanism is mounted in the door frame, minimizing door weight and improving maintenance.

Operation of the door is a simple one-handed manoeuvre available on 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 e.g. cast concrete, block, stud and partition systems.

## Applications



Our range of mechanical seal doors are used in applications where high containment is required, such as in BSL3 and BSL4 labs. With the raised threshold these doors create a natural bund, assisting containment of liquid during wash down.

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

## 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

## Leakage Rates

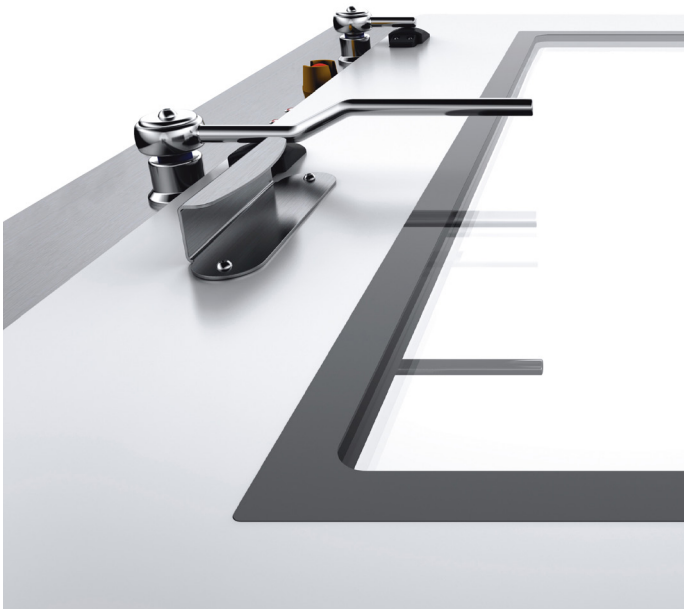


Typical pressure loss at SAT of 23Pa over 30 minutes, with a starting pressure of 500Pa, test data available up to 2500Pa pressure difference.

## 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



## 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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PBSC reserve the right to introduce changes in performance, configuration and technology, dimension, weights and materials in the course of technical progress. Images may not be accurate