МИКСЕРЫ И БЛЕНДЕРЫ BUCK
Технические характеристики

BUCK® CONTAINMENT VALVES

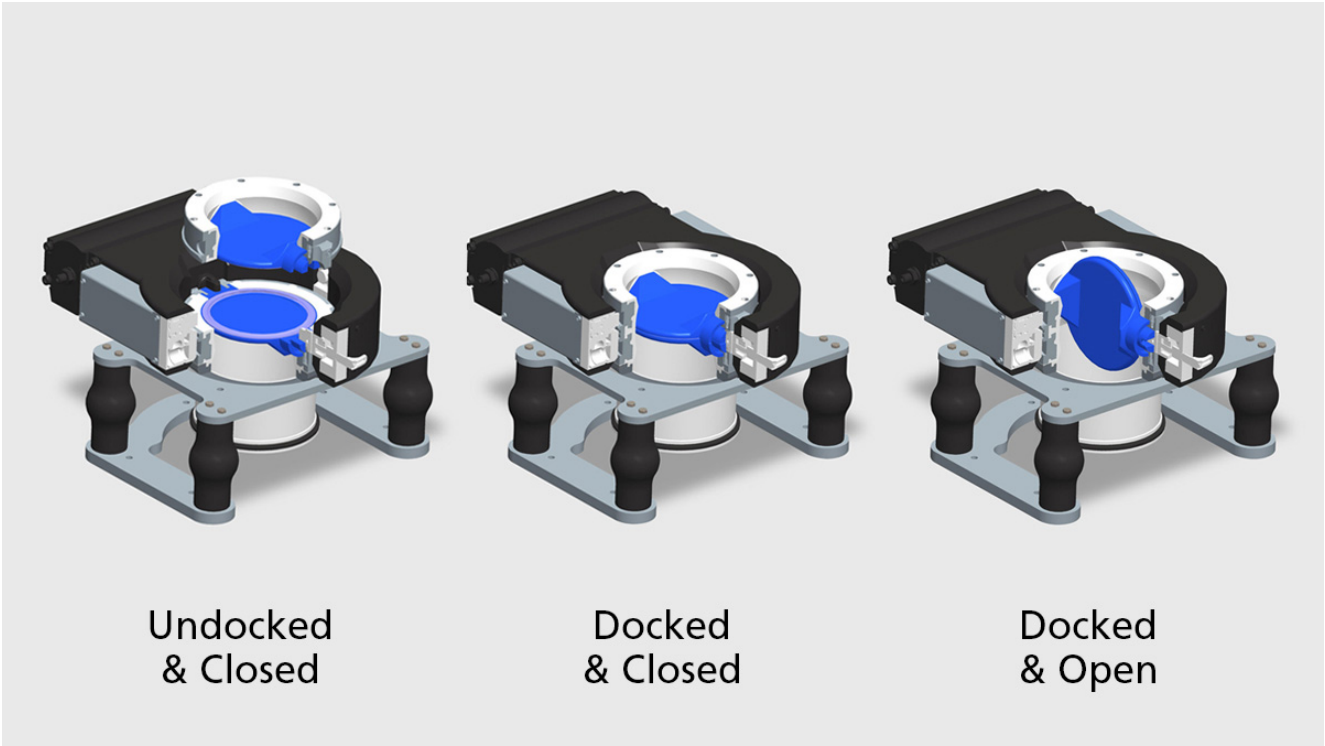
BUCK® valves were the first commercially available split valves on the market. Used for the contained transfer of active powders from one vessel to another in pharmaceutical production, BUCK® technology is the result of thousands of successful applications worldwide and more than 20 years of experience.

BUCK® MC Valve Principles
Split butterfly valves ensure the protection of both people and products when charging and discharging highly potent APIs.
The docking system comprises two half valves that are able to independently seal two different containers. A corresponding actuator ring is used to lock and activate the two half valves, which then allows contained powder transfer.

Undocked and Closed
When undocked and closed, the half valves prevent any product from leaving the container to contaminate the surrounding environment.

Docked and Closed
When docked and closed, the half valves are sealed and connected.

Docked and Open
Both half valves now operate as a single butterfly valve and product can be discharged in a fully contained way.



Features and Benefits
The BUCK® MC Valve builds on the proven design principles of the first generation of split butterfly valves and offers a number of key additional features and benefits:

Unique passive-to-passive valve design with a centralized actuation ring; the passive valves freely orientate, reducing operator docking error
Modular design to allow flexible and customized solutions for every requirement, built from standard components
Modular containment: with a 1–10 µg/m3 (STTWA) containment level offered as standard, the system is also available with an advanced air cleaning actuator to further improve containment levels down to <1 µg/m3 (STTWA).
Simple maintenance: fewer component parts and more identical parts owing to the passive-to-passive design, reducing spare part inventory
WIP, CIP and COP as standard
Rapid, contained changeover of the contaminated valve core with working parts remaining on the station, allowing for extremely fast product changeover – fully complementing the MODUL™ tablet press ECM containment concept!
Robust docking: the new central actuation ring design and compensator device overcomes potential misalignment of the container and docking station.
Technical Specifications: Product-contact parts
Metal parts are available in stainless steel 1.4404/316L
or Hastelloy 2.4602/C22 (on request).
Elastomers are available in EPDM white, EPDM black antistatic
and FKM nature (white).
Surface roughness for metal parts (non-coated) is Ra < 0.5 µm.
Surface qualities are available in mechanically polished, electropolished
or PTFE coated.
Technical Specifications: Non-product-contact parts
Metal parts are made of stainless Steel 1.4301/304 (or higher)
or aluminum anodized.
Plastic parts are made of POM, PEEK and PA.
Surface roughness for metal parts is Ra < 1.6 µm.

GEA has a long history of expertise and an unparalleled depth of experience in the field of containment. We offer a wide range of technologies and equipment that improve and enhance the efficiency and performance of solid dosage form plants for the safe transfer of powders.

Actuator Unit
BUCK MC_приводное кольцо-ручное
The actuator ring is available in three different versions:

portable, manual, DN100–DN150
fixed, manual, DN100–DN200
(with or without extraction)
fixed, pneumatic, DN100–DN250
(with or without extraction).
A single portable actuator ring can be used to manually dock several vessels in the same room or charge/discharge numerous pieces of equipment.

Fixed actuator rings (manual or pneumatic) can be attached to and used with hoists, forklifts, pallet trucks, etc. All sensors are enclosed within the actuator ring, and all cables are contained in a single, central gland.

All our actuator rings offer quick, tool-free removal of the half valve as standard. And, there's no need to disconnect any utilities for maintenance.

Half Valve
BUCK MC_полуклапан
The BUCK® MC half valve forms the basis of the docking system. It is the only product contact part and comprises a housing, main body seal, disc seal and a fixed bearing disk. For an active station (fixed actuator ring), the half valve is integrated into the actuator unit and has a flexible connection. For manual and mobile applications, the half valve is mounted directly on the process unit. The second half valve is connected to a mobile container.

Accessories for Mobile Actuator Ring
BUCK MC_подъемное-ручное
Manual lifting device: No need for docking-related lifting equipment
The unit is fixed to the process with a tri-clamp connection
Available in DN100 and DN150.
Accessories for Fix Installed Actuator Ring
BUCK MC_компенсатор
Compensator device: To dock with mechanical equipment
Compensator device 360°: As above, but with an adjustable flange connection. The orientation of the actuator ring is freely adjustable for quick and easy set-up
Lifting device: To raise/lower the valve and dock with an IBC
Weighing device: To decouple the equipment for weighing.
Wash Equipment (CIP/WIP/COP)
BUCK MC_мойка
Wash hood fix: With two fixed spray nozzles, a drain and handles
Wash hood with lance: With one fixed spray nozzle, a manually adjustable lance, drain and handles
Drain hood: with drain connection only.
All wash equipment is affixed to a wash half valve.

Special Solutions
Vibroflow
Quick Assembly half valve: There is no fixed connection between the valve housing and the IBC, only a tri-clamp. As such, tool-free valve removal from the IBC (and dismantling) is possible, which is ideal for frequent product changes and/or manual cleaning
Pressure-rated half valve: A PN6-rated version of the MC100 is available. This half valve is suitable when a PN6 reactor has to be pressure tested with an installed valve. Fully compatible with standard BUCK® MC valves, it can withstand pressures up to 6 bar
Vibroflow™: For poorly flowing products, the well-known Vibroflow™ can also be used with BUCK® MC valves.

По вопросам продаж и поддержки обращайтесь:

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