

SERVOLIFT

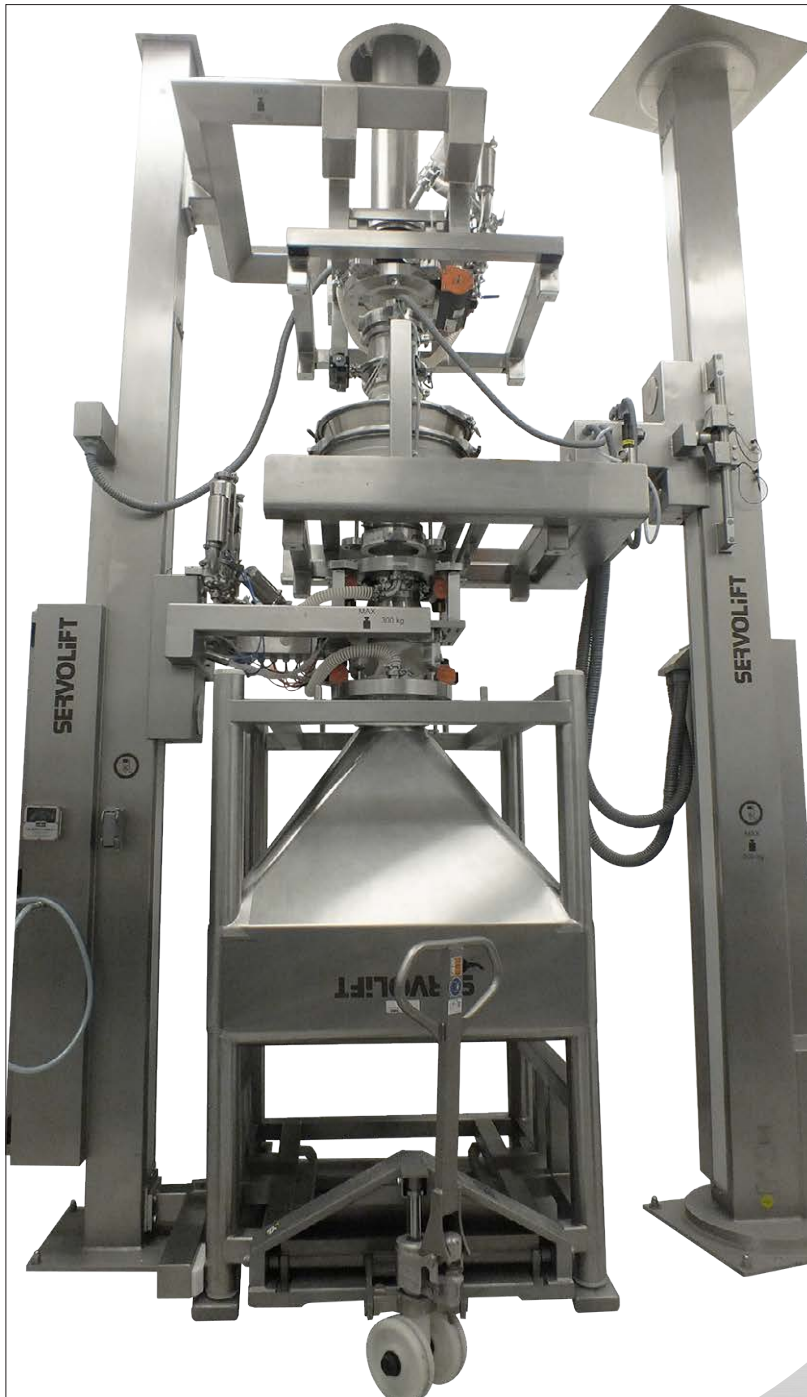
Experts in Process, Handling & Design

High Containment Systems



Servolift + Andock: Proven solutions for Handling Dangerous Solids

SERVOLIFT has designed, built and installed hundreds of high containment systems for the Pharmaceutical Industry.



Andock Split Valves - Unique Features and Benefits:

Simple, Strong, Effective & Clean. This defines the Andock valve and sets it apart from all other valves on the market today. Consider these points:



REMOVABLE PRODUCT CONTACTING PARTS FROM THE ACTIVE: The active valve has a passive valve in it, and it removes from the active WITHOUT having to remove the entire active! Offered in optional "Tool-Less" design.

LOCKING SYSTEM WITH 3mm MOVEMENT

This is an important feature for two reasons: 1: release of the mated valve halves are done by the active station, not a bin or drum lifter. Lifters do not work in such a way to effect a gentle, minute movement to make this a reasonable method to undock the passives. 2: This system allows the optional vacuum sweep system to be more effective by finely controlling the point of passive/active flap splitting.

**ANDOCK CYLINDER LIFT SYSTEM:**

The king of all Andock valves, the cylinder lifting active. This is the most popular of all active designs as the system offers unparalleled flexibility by "floating" the active to the passive, in lieu of forcing the active into position with the passive.

- Total elimination of mechanical forces on docking, extending the life of the system.
- Enhanced containment as the active moves down from the passive, in lieu of a lifter lowering the IBC/Container away.
- Elimination of the need for *high accuracy equipment*. Servolift has deployed passive valves on 20 year old IBCs without a problem.

SUPER TIGHT PASSIVE FLAP:

The Andock support system + seal is working so tight that the valve DOES NOT open during processing. Some other valves have internal locking pins. The pins are a hassle as they are an extra 4 little parts per valve and if they are forgotten ONCE you can lose the entire batch (this small item alone is justification to use a valve that does not require the passive locking pins. This point is nearly universally overlooked)



LOW ACCURACY DESIGN: A precision handling system is not needed anymore! The Andock production size valves feature a HUGE +/- 0.55" docking tolerance (1.1" circle).

GMP:

The Andock Active is the CLEANEST valve on the market! Looks can be deceiving, take other valves apart then compare to the Andock.



Systems.....

The key to a successful high containment system is all in the details. An often overlooked, but very important factor is the ability to make the removal of the active valve parts ergonomic. Active valves are often installed in hard to get to places such as the top of a tablet press, or underside of an IBC filling station. Servolift has simple easy to use systems in place for every possible application. In all cases we can assure that no operator will lift more than 25 lbs or be put into a back-hurting position.



ACTIVE VALVE AND Y-CHUTE REMOVAL FROM TABLET PRESS:

Automatic removal of BOTH Y-Chute and active valve using the Servolift IBC lifter. The entire assembly is lowered to a quick-adjustable ergonomic removal height where an operator is provided with a parts cart to collect all the items and roll them to the washing area for final cleaning.



THROUGH THE FLOOR PROCESSING:

Automatic lift and docking of a transfer chute to the excipient dispensing room above. Three separate loading operations each item on a rolling cart: API loading (with N2 purge), Sifting and "Chute-Only" transfer skid. Final weighing of dispensed products. Several different sized IBCs were used.



REMOVAL OF ACTIVE PARTS FROM BIN FILLING STATION (under a roller compactor):

Using a Servolift "crank cart": the cart is rolled under the active station and a "platen" adaptor is attached to the arm of the crank cart. The operator cranks up the platen until it presses into the active face. The active product contacting parts are released (either with screws or tool-less pull-pins) and the parts are lowered to an easy-to-remove height.



Isolator Discharge of API



Discharge Station



Filling Station



Wash Station



HSG/Mill Washing

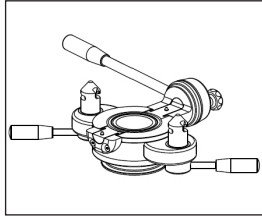
DISCHARGE, FILLING & WASH STATIONS:

Each system is made order for your unique application.

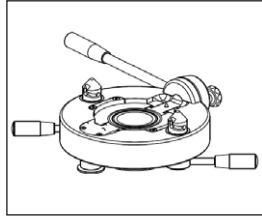
Andock - a complete system

Andock offers the widest range of valve sizes and options on the market to meet every application and requirement.

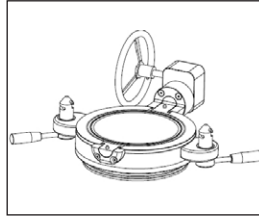
ACTIVE VALVE CONFIGURATIONS



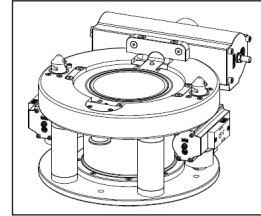
Manual locking & actuation



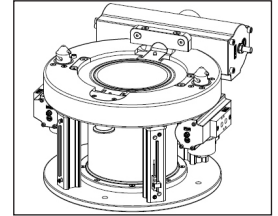
Manual locking & actuation, with vacuum extractor



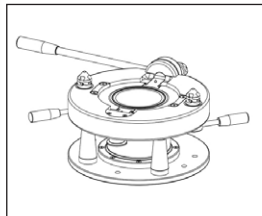
Manual locking with hand-wheel actuator



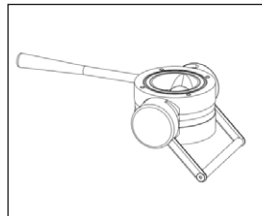
Powered Locking & actuation + vacuum extractor. "Rubber" compensation mount



Powered Locking & actuation + vacuum extractor. Cylinder lift system

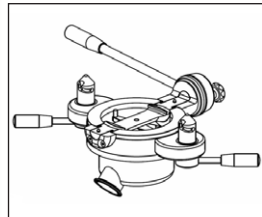


Manual Locking & actuation + vacuum extractor. Manual Cylinder lift system

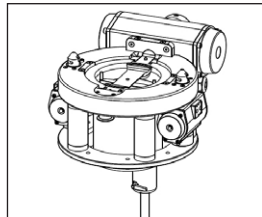


2" size Active Valve

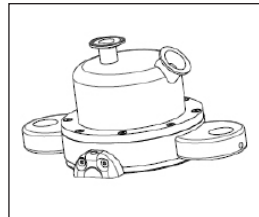
WASHING ITEMS



Manual Active washing valve



Powered Active washing valve (wash chamber ready)

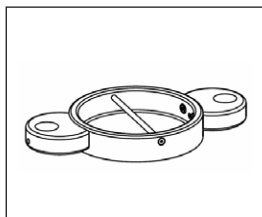


Passive washing valve

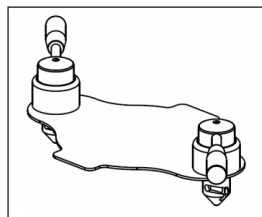
Available Active and Passive Sizes

- 2"
- 4"
- 6"
- 8"
- 10"
- 12"

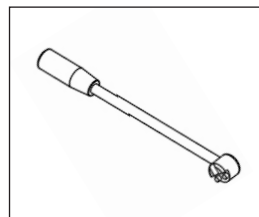
ACCESSORIES



Active Valve cover



Passive Valve cover



Manual valve opening tool (useful aid for disassembly)