

Bulk Container Systems UCON. Tailor-made solutions.

www.ucon.de



BPK Cone Valve Systems
BPO Butterfly Valve Systems



Yes, gevonden!
CONSENSYS biedt de oplossingen voor ons!
Bel jij met een aanvraag?
->> Gerard Noordhof
op +31 6 3039 2646

Expertise in dosing, dispensing and mixing of bulk materials. UCON Container Systems.

Our solutions cover your full production process. All our products can be customized and equipped with several interfaces that will integrate to fit and work smoothly in your production process. ■

Transport - UCON provides the most complete range of IBC Containers and Systems for the transport of bulk materials within the food, chemical and pharmaceutical industry.

Storage - With safety always in mind, our containers represent the best choice for the storage of hazardous and non-hazardous materials.

Mixing - Our BP, BPO and LNB bulk material containers can be used with different mixing devices, whether a tumble mixer or a stirring unit. This allows the product to remain in the same container from filling through dispensing. Therefore, the resources needed for cleaning are kept to a minimum.

Dosing, dispensing and discharging - Our various stations ensure the best tightness and minimize all possibility of product contamination.

All our container systems are engineered with precision to exceed the highest standards of quality and fulfill our demanding customers needs. Our solutions can be UN approved, ATEX certified and appropriate for GMP. In the end, our container systems represent a modular solution which grow with your business.

Customized solutions - Because standard products are not always sufficient, and because you are the specialist in your field, we work hand-in-hand with our customers to achieve our most ambitious goal: Your satisfaction. Fully automatic, semi automatic or manual solutions, the decision is yours.

At UCON you will have a full range of specialists for container systems to help you tailor your solutions. From our side, you will receive a system with guaranteed maximum safety, hygiene, perfection and durability.

Picture below: dust controlled filling and dispensing from containers into small packages.



The experience and knowledge from a leader in containers.
UCON. 275 years transforming steel.

UCON belongs to THIELMANN CONTAINER SYSTEMS, the Business Unit Containers of the Teka Group. Among other activities, the Teka Group is the worldwide market leader in stainless steel beverage containers. Our worldwide experience in several industries with customers coming from more than 100 countries allow us to provide you with the guarantee that your solution will fulfill your expectations. Our "Made in Germany" pioneer culture provides our products with a degree of flexibility and durability that provides a secure return of investment.

UCON offers you:

- Expert knowledge
- Process safety
- Efficiency
- Reliability
- Innovative solutions
- Flexibility
- Modular systems
- After-sales service

Tailor-made solutions for different needs.

Whatever your business, we have the right bulk material handling system for you.

Product Comparison Matrix

	BPK Cone Container Systems			BPO Butterfly Valve Container Systems**	
	BPK 2	BPK 3	BPK 4	Butterfly Valve System	Butterfly Split Valve System
Safety at workplace	★★★★	★★★★	★★★★	★★★★	★★★★
Easy cleaning	★★	★★★	★★★★	★★★	★★★★
Easy handling*	★★★★	★★★★	★★★★	★★★★	★★★★
Ease of maintenance	★★★★	★★★★	★★★★	★★★★	★★★★
Possibility of automatization	★★★★	★★★★	★★★★	★★★★	★★★★
Reduction of dust emission	★★★	★★★	★★★★	★★★	★★★★
Closeness during discharging	★★★★	★★★★	★★★★	★★★★	★★★★
Dosing accuracy	★★★★	★★★★	★★★★	★★★	★★★
Suitability for bridging products	★★★★	★★★	★★★★	★★	★★
GMP suitable	-	★★	★★★★	-	★★★★
In-house handling of hazardous goods	Yes	Yes	Yes	Yes	Yes
UN approval availability	Yes	Yes	Yes	Yes	Yes
ATEX certification availability	Yes	Yes	Yes	Yes	Yes
Suitable for tumble mixer	Yes	Yes	Yes	Yes	Yes

Applications

Food Industry	●	●	●	●	●
Pharmaceutical Industry	○	●	●	○	●
Metal Powders	●	●	●	●	○
Bulk Chemicals	●	●	●	●	●

* Suitable for roll conveyor, forklift handling, crane handling and stackable

** Butterfly valve systems can be offered as well for manual discharging

● Standard ○ Optional



BPK Cone Valve Container Systems.
Discharging and dosing via cone valve, best solution for poor flowing and bridging bulk material.



BP/BPO Butterfly Valve Container Systems
Discharging and dosing via vibrating and oscillating butterfly valve, best solution for high dispensing tolerances.

*Suitable for roller conveyors and industrial trucks, craneable and stackable.

BPK Cone Valve Container Systems

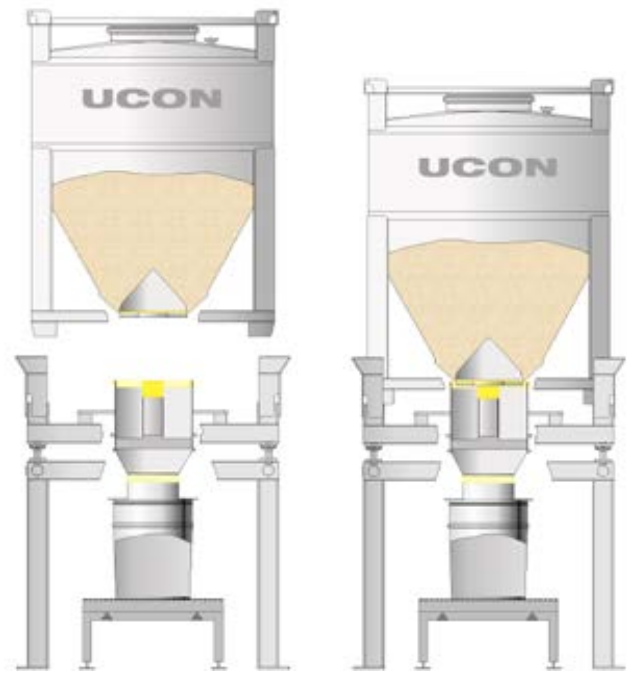
Discharging and dosing via cone valve, best solution for poor flowing and sticky bulk material.

Our cone valve systems can be customized to fit your specific bulk material requirements, in order to avoid bridging, rat-holing, segregation or degradation.

We design our BPK systems to be complete safe, hygienic, modular and easy to use. They guarantee complete emptying while controlling the flow with a fully automated process.

Our BPK 2, 3 and 4 Cone Valve Container Systems represent different solutions which will adapt to your bulk material in the way you need, whether you have a free-flowing, bridging or fragile product, or you need to keep dust emissions controlled at any time.

Our technical sales team will help you choose the solution that best fits your requirements.



BPK 2

BPK 3

BPK 4



BPK 2 Discharging Stations



		Basic	Plus	Top
Materials	Product wetted: Stainless Steel AISI 304 / 316L	● / ○ / ○ (1)	● / ○ / ○ (1)	● / ○ / ○ (1)
	Frame: Stainless Steel AISI 304 / 316Ti	● (1)	● (1)	● (1)
	Seals: Silicon / PTFE / EPDM	● / ● / ○	● / ● / ○	● / ● / ○
	Cabinet: Steel painted (RAL 7035) / Stainless Steel	● / ^	● / ^	● / ^
	Discharge cylinder lifting capacity by 6 bar / 10 bar [kN]	13 / 21	13 / 21	13 / 21
	Discharge cylinder air amplifier (10 bar)	○	○	○
	Discharge cylinder lifting height [mm]	130	130	130
	Outlet connection: flange DN 400 / adaptation	● / ^	● / ^	● / ^
Equipment	Middle part - Protective cover manually	○	○	●
	Shock mounts / base frame with base plates	● / ○	- / ●	- / ●
	Base frame (height according to the arrangement)	○	○	○
	Container locking	-	●	●
	Linear vibrator with swivel arm	-	○	●
	Vibrator at the container outlet on one side / both sides	-	● / ○	● / ○
	Rotary vibrator on the outlet	●	●	●
	Base frame with load cells	-	○	●
	Inflatable gaskets between container / discharge station	●	●	●
	Control-Unit	Pneumatic (pressure supply and valves)	●	●
UCON Discharge-Unit separate operator panel*		○	●	-
UCON Dosing-Unit with separate operator panel**		-	-	●

BPK 3 Discharging Stations



Materials

Product wetted: Stainless Steel AISI 304 / 316L
Frame: Stainless Steel AISI 304 / 316Ti
Seals: Silicon / PTFE / EPDM
Cabinet: Steel painted (RAL 7035) / Stainless Steel
Discharge cylinder lifting capacity by 6 bar / 10 bar [kN]
Discharge cylinder air amplifier (10 bar)
Discharge cylinder lifting height [mm]
Outlet connection: flange DN 400 / adaptation

Basic	Plus	Top
●/○/○(1)	●/○/○(1)	●/○/○(1)
●(1)	●(1)	●(1)
●/●/○	●/●/○	●/●/○
●/∧	●/∧	●/∧
13 / 21	13 / 21	13 / 21
○	○	○
130	130	130
●/∧	●/∧	●/∧

Equipment

Middle part - Protective cover manually
Shock mounts / base frame with base plates
Base frame (height according to the arrangement)
Container locking
Linear vibrator with swivel arm
Vibrator at the container outlet on one side / both sides
Rotary vibrator on the outlet
Base frame with load cells
Inflatable gaskets between container / discharge station

○	○	●
●/○	-/●	-/●
○	○	○
-	●	●
-	○	●
-	●/○	●/○
●	●	●
-	○	●
●	●	●

Control-Unit

Pneumatic (pressure supply and valves)
UCON Discharge-Unit separate operator panel*
UCON Dosing-Unit with separate operator panel**

●	●	●
○	●	-
-	-	●

BPK 4 Discharging Stations



Materials

Product wetted: Stainless Steel AISI 304 / 316L
Frame: Stainless Steel AISI 304 / 316Ti
Seals: Silicon / PTFE / EPDM
Cabinet: Steel painted (RAL 7035) / Stainless Steel
Discharge cylinder lifting capacity by 6 bar / 10 bar [kN]
Discharge cylinder air amplifier (10 bar)
Discharge cylinder lifting height [mm]
Outlet connection: flange DN 400 / adaptation

Basic	Plus	Top
●/○/○(1)	●/○/○(1)	●/○/○(1)
●(1)	●(1)	●(1)
●/●/○	●/●/○	●/●/○
●/∧	●/∧	●/∧
13 / 21	13 / 21	13 / 21
○	○	○
300	300	300
●/∧	●/∧	●/∧

Equipment

Shock mounts / base frame with base plates
Base frame (height according to the arrangement)
Container locking
Linear vibrator with swivel arm
Linear vibrator at the container outlet
Rotary vibrator on the outlet
Base frame with load cells
Sealing container / discharge station: static
Middle part closed with inflatable gasket

●/○	-/●	-/●
○	○	○
●	●	●
-	○	●
-	○	●
●	●	●
-	○	●
●	●	●
-/-	●/-	●/○

Control-Unit

Pneumatic (pressure supply and valves)
UCON Discharge-Unit separate operator panel*
UCON Dosing-Unit with separate operator panel**

●	●	●
○	●	-
-	-	●

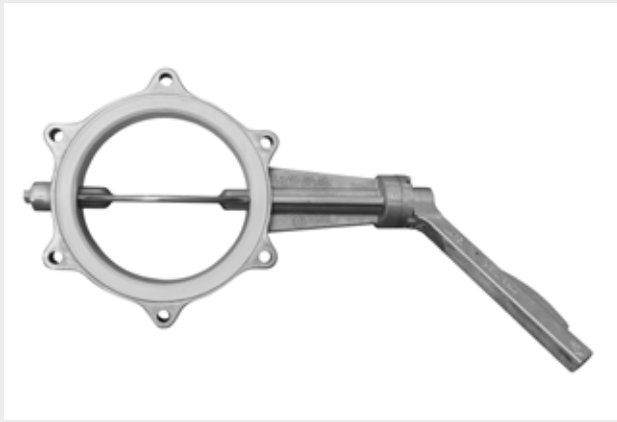
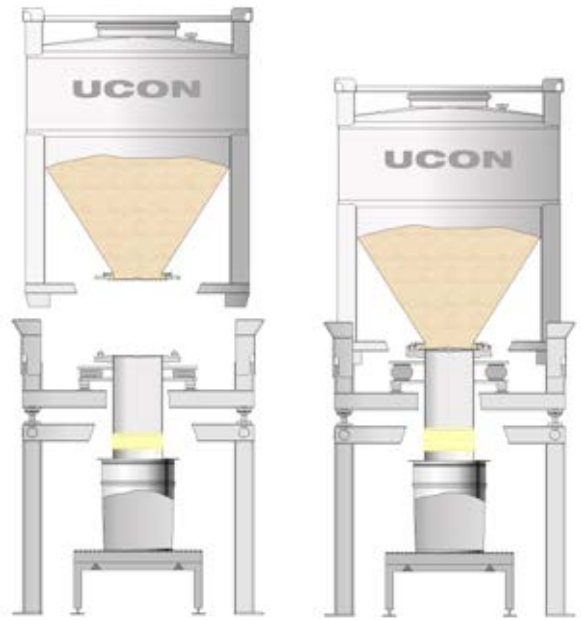
BPO Butterfly Valve Container Systems

Discharging and dosing via butterfly valve.

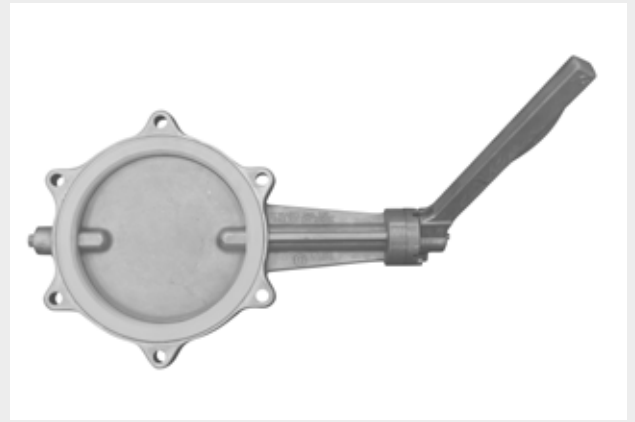
Our butterfly valve systems represent a solution which can be both manually, semi-automatically and fully automatically operated.

The split butterfly valve system has been incorporated into the UCON bulk container systems to fulfill the most demanding pharmaceutical and chemical requirements.

It features hermetically sealed, contamination-free transition between container and receiving unit, which secures that there is no dust exposure. Principal areas of application are highly hazardous bulk materials or contamination free and clean-room requirements such in the pharmaceutical and chemical industries.



Butterfly Valve Opened



Butterfly Valve Closed



Split Valve Closed



Split Valve Open

BP/BPO Butterfly Valve Systems



Materials

Product wetted: Stainless Steel AISI 304 / 316L

Frame: Stainless Steel AISI 304 / 316Ti

Seals: Silicon / NBR

Cabinet: Steel painted (RAL 7035) / Stainless Steel

Equipment

Middle part - Protective cover manually

Linear vibrator spring-supported / with swivel arm

Container locking

Opening of the container butterfly valve

Base frame (height according to the arrangement)

Shock mounts / base frame with base plates

Control-Unit

Pneumatic (pressure supply and valves)

Pure pneumatic control unit incl. switches / buttons

UCON Discharge-Unit separate operator panel

- Siemens Simatic minicontroller

- Text display: parameter for stroke, pulsing and vibrator mode, error messages
PLC Interface

UCON Dosing-Unit with separate operator panel

- Siemens Simatic S7

- Graphic display for intuitive Operation, automatic flow control

- Material based dosing parameter with parameter management

- Dosing tolerance ± 100 [g] (2)

- Automatic and service mode, scale setup, operator management (password)

- Graphic of dosing (f/t)

Optional

ATEX

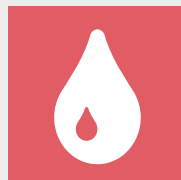
FDA

	Basic	Plus	Top
Product wetted: Stainless Steel AISI 304 / 316L	●/○/○(1)	●/○/○(1)	●/○/○(1)
Frame: Stainless Steel AISI 304 / 316Ti	●/○ (1)	●/○ (1)	●/○ (1)
Seals: Silicon / NBR	●/● (1)	●/● (1)	●/● (1)
Cabinet: Steel painted (RAL 7035) / Stainless Steel	-	●/ ^	-/ ^
Middle part - Protective cover manually	-	○	●
Linear vibrator spring-supported / with swivel arm	○/-	●/○	-/●
Container locking	-	●	●
Opening of the container butterfly valve	-	●	●
Base frame (height according to the arrangement)	○	○	○
Shock mounts / base frame with base plates	●/○	-/●	-/●
Pneumatic (pressure supply and valves)	-	●	●
Pure pneumatic control unit incl. switches / buttons	-	-	-
UCON Discharge-Unit separate operator panel - Siemens Simatic minicontroller - Text display: parameter for stroke, pulsing and vibrator mode, error messages PLC Interface	-	●	-
UCON Dosing-Unit with separate operator panel - Siemens Simatic S7 - Graphic display for intuitive Operation, automatic flow control - Material based dosing parameter with parameter management - Dosing tolerance ± 100 [g] (2) - Automatic and service mode, scale setup, operator management (password) - Graphic of dosing (f/t)	-	-	●
ATEX	○	○	○
FDA	○	○	○

● Standard ○ Optional

Your contact for safety.
Always the right partner. UCON.

UCON is your partner for customised container systems and tailor-made container solutions.



contactgegevens

CONSENSYS

+31 (0) 334 572 592
info@consensys.nl
www.consensys.nl

 **UCON**
THIELMANN CONTAINER SYSTEMS


MADE IN GERMANY