Drum Dump Station

_DrumFlow[®]



Our handling tools allow easy handling, lifting, turning and emptying of drums and barrels. Thanks to our many options available, the operator can completely or partially empty the contents of



DrumFlow® 01



- Emptying directly on the pallet, without drum manipulation Suction by VFlow® pneumatic
- conveying range

[+] Advantages

- No drum manipulation
 - All sizes
 - Ease of use

DrumFlow® 02



- Confined dump station Drum connection on dump
- enclosure
- Removal of the inner sack layer for emptying

[+] Advantages

- Confinement
- Possibility fo empy sacks Raw material dosing

DrumFlow® 03



- **Emptying by tilting directly** on a collecting hopper Options: suction booth,
- handling conveyor, facilitated product flowing

[+] Advantages

- All sizes
- No drum manipulation

DrumFlow® 04



Completely confined emptving by means of containment and sealed connection

[+] Advantages

- Total containment
- No manipulations
- CMR toxic products applications



Drum discharging for mixer feeding

The suction pipe allows the vacuum of the material with a manual operation. This suction pipe is ideal for emptying drums.

This system is intended to be coupled with our powder pumps from our VFlow® range to discover in our "Pneumatic Conveying" booklet. Vacuum is directly conducted into the drum from the cyclone. The flow rate varies from 100kg/h. to 2t./h. depending on the model

Optionally, the drum or cyclone can be implemented on a weighing system allowing the weighing and the dosing.

[+] Advantage

Integration of a weighing device, weight gain or loss-in-





Discharge of end products stored in drums to feed a packing system

Orum

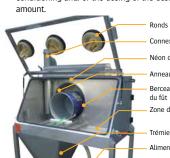
containment

by external

DISCHARGING AND DOSING BOOTH FOR RAW MATERIAL PACKAGED

IN DRUMS

The discharge operation of the drums is carried out by the operator. Once the drum is positioned at the level of the enclosure, the operator extracts the sack to ensure its deconditioning and/or the dosing of the desired



Ronds de gant

[+] Advantage

The DrumFlow® 01 solution prevents the operator from handling the drums

that can be left on the pallet

Connexion dépoussiérage

Néon d'éclairage

Anneau de dépoussiérage Berceau de positionnement

Zone de prépesée

Trémie collectrice produit

Alimentation transfert pneumatique

Alternative possible



Drum

positioning in

deconditioning

Lifting and positioning of the drum in the booth is performed by the elevator integrated on the booth

Operating mode for an optimized containment

3 Container opening via glove ports and

product discharge into the hopper (sieve)

Barrel evacuation in the sack and sack sealed closing (no contact with operator)



Our engineering office offers you turnkey customized solutions according to your product constraints, applications and drum dimensions.











Discharging

Barrel Dump Station

O3

DrumFlow

TIPPING AND TIGHT CA







Compatible with drums fitted with internal sack



Toxic products applications



Adjustable to all drumtypes



Maximal containment enclosure for a healthy work-



[+] Security

Protective screen

It is positioned near the tilting engine and guarantees the operator's security

Lock system

The cycle start is forbidden when the door in open

▶ Control system

The control is conducted by "maintained" push buttons. The cycle is interrupted if the operator looses one of the buttons $% \left(1\right) =\left(1\right) \left(1\right) \left$

Security area

Between the conveyor and the tipping device, it avoids all risks of collision and ensures the installation reliability

Hotte de capotage - 2. Tipping cradle with adjustable dimensions - 3.
 Arbre de basculement directly connected to engine - 4. Damper to maintain drum upper position during tipping (adjustable in height by monitoring system) - 5. Pivoting system with angular sensor - 6. Motorized roller conveyor - 7. Lifted frame for drum maintenance





1. Containment enclosure - 2. Flow aid vibrator - 3. Containment cylinder - 4. Gloves for drum opening - 5. Tipping cradle - 6. Buttom drum vibrator - 7. Motorized drum preparation conveyor - 8. Dump valve - 9. Connection inflatable seal - 10. Motorized switching group - 11. Isolation valve of the collecting hopper - 12. Collecting hopper - 13. Control pannel - 14. Cabin with sectional door

D TECHNICAL SPECIFICATION

Rate: 1 drum/4-5 min.

 $\textbf{Manufacturing:} \ \text{framework in painted steel/stainless steel}$

Loading capacity: 250 kg

Angle: up to 180°

Drum tipping: electrical engine of 7,5 kW

Drum containment: pneumatic cylinder with sealing control

by overpressure

Connection: by low-pressure inflatable seal

Draining butterfly valve: DN150

Product flow assistance: fluidiser on the discharge

cone, vibrator on the cone or drum bottom

D TECHNICAL SPECIFICATIONS

Rate: 1 barrel/2 min.

Manufacturing: framework in painted steel / stainless steel

Loading capacity: 180 kg **Angle :** up to 180°

Drum tipping: electrical engine of 5,5 kW

OPERATIONG MODE

AVARAGE TIME OF A COMPLETE CYCLE: 2 MIN.

- 1. The drum positioning on the inlet conveyor.
- 2. The drums are led by gravity to the emptying area.

 3. The first drum is put at the positioning stop: rubber pads ensure drum accomodation without any impact.
- **4.** When the drum is positioned, the operator can start the tipping cycle. The control of the cycle is conducted by means of two push buttons for lifting and two buttons for descending of the drum. The tipping is ensured by a gearmotor. The moving assembly arrives to abutment against the rubber pads.
- **5.** When emptied, drums return to their initial position under the operator's control.
- **6.** The operator can then manually move the drums to the soiled drums station.

OPERATING MODE

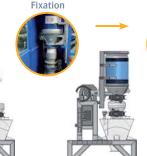








3. Drum tilting



 Connection to the hopper by means of inflatable seal and dump valves opening

