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





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

[+] Advantages No drum manipulation All sizes

Ease of use

DrumFlow[®] O2



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 CUSTOM MADE

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



DrumFlow[®] O3

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

[+] Advantages

All sizes

No drum manipulation

[+] Advantages

Total containment No manipulations CMR toxic products applications

Completely confined emp-

tving by means of containment

and sealed connection

DrumFlow[®] 04



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 of cyclone chosen.

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

The DrumFlow® 01 solution prevents the operator from handling the drums that can be left on the pallet

device, weight gain or loss-in weight

Integration of a weighing

[+] Advantage

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

DISCHARGING AND DOSING BOOTH FOR RAW MATERIAL PACKAGED Operating mode for an optimized containment

The discharge operation of the drums is carried out by the operator. Once the drum is positioned at the level of the enclosure, the





2 Drum containment by external sack



Alternative possible



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

operator extracts the sack to ensure its deconditioning and/or the dosing of the desired





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Drum discharging for

mixer feeding

Barrel Dump Station

DrumFlow[®]

Advantages







Compatible with drums fitted with internal sack

Notic products applications

Maximal containment enclosure for a healthy workplace

[+] Security

types

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 Security area

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

1. 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. Manufacturing: framework in painted steel/stainless steel Loading capacity: 250 kg Angle: up to 180°

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

Drum tipping: electrical engine of 7,5 kW Drum containment: pneumatic cylinder with sealing control by overpressure

OPERATING MODE



1. Drum placing on the inlet convevor and on tipping cradle 2. Drum confinement is assured by 3. Drum tilting

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

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.



cradle lifting on the containment cone. The internal cone forks prevent the reversal of the internal sack

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