



[www.3SigmaSystems.com](http://www.3SigmaSystems.com)  
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**Massage-It™ Bulk Bag Unloader**  
**Clamp-It, Close-It, Dust Valve, Collapse-It**  
**Product – Cocoa Powder**  
**Case History 3S-1235**

**Background:**

Major food manufacturer contacted us after reviewing our website. They required three dust tight bulk bag unloaders to replace three old, outdated units, which were a constant dust and flow problem. We bid to the client's specification. Hapman and Flexicon were the two other bidders.

**Client selected 3Sigma specifically because:**

- "I liked your overall design best. You offer better containment than your competitors."
- "Your unit is very heavy duty. I really like your heavy duty massaging paddles."
- "You offered a nice, clean design to collapse the empty bulk bags."
- "You were price competitive."

**Customer Needs:**

- Discharge of this difficult product – Cocoa Powder
- Dust tight design
- Food grade – 316SS, welds continuous, ground smooth, contact surfaces to be #4 finish or better
- Guaranteed flow of product through specialty discharge chutes to downstream equipment.
- Fit within the existing space



**Solution:**

- We provided our Massage-It™ bulk bag unloader to ensure discharge of this difficult to flow product.
- The system included our oversized Contain-It™ chamber that contains ALL spills, WHEN they occur.
- We provided our Clamp-It™ seal to positively seal the bag outlet spout to the Tube-It™ discharge tube.
- We provided our Close-It™ valve which fully stops the flow of material through the bag upon demand.
- We provided our Collapse-It™ system which evacuates most dust from the bag and collapses it upon completion of discharge.
- We provided custom Tube-It™ discharge tubes, to connect to downstream equipment, and included an aeration system to ensure product flow.
- The control system and solenoid valves are mounted and plumbed, requiring one 111/1/60 connection and one air line connection.



**Clamp-It™**



**Collapse-It™ System to Evacuate Empty bags**



**Close-It™ Valve System**



**Contain-it w Integral Discharge Tube to Rotary valve – Pneumatic Conveyor**



**Two Units, Platform Mounted, Through Discharge Tube to Pneumatic Conveyors**

**BETTER BY DESIGN™**

**Made in America**