

GRAVITY BULK LOADING & DISCHARGING SYSTEMS



GEMCO offers a system that is dust tight, easy to clean and safe when gravity loading powder from a second floor or mezzanine to a blender. Using a sanitary valve with an inflatable or extendable seal, the blender maintains a dust tight connection in either direction. The compact design minimizes internal surface area where material can get trapped. The valve and seal can be removed in minutes with its tool-less assembly.

FOR MORE INFORMATION, CONTACT YOUR GEMCO REPRESENTATIVE TODAY!

301 Smalley Avenue, Middlesex, NJ 08846 USA ● 800-OK-GEMCO/800-654-3626 ● Fax: 732-752-5857
visit: www.okgemco.com ● e-mail: sales@okgemco.com

POWDER HANDLING: Bulk Bags

Bulk bags (Cont'd)

Loading Sequences



Powder containers are brought to the loading platform in boxes, bags, drums, bulk bags and bins. They can be pre-weighed and bar coded to speed up the loading process.



The loading platform would have a stainless steel chute with a flange on top and bottom. It is easy to clean and provides a sealing area above and below. The pictures above show a valve that has been positioned into place. Control safeties ensure that the blender is in place, seals are working, loading equipment is in place and the blender

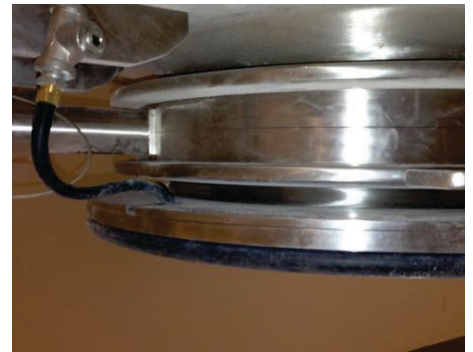
room is clear. The chute can use screeners (left), mills (right) or magnets during loading to save time and an extra process step.

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Control stations are located on each floor. To avoid accidents, each station is limited to commands that are required for that operator only. Interlocks are programmed in to prevent accidents. Operators do not have to go from one floor to another to load or discharge, saving time. There is a report option too. Programming can be part 11 compliant if required.



The valve is a CORA quick take-a-part sanitary valve. In applications where stack-up height is at a minimum, we use an inflatable seal to save space. The valve and seal can be removed without tools.

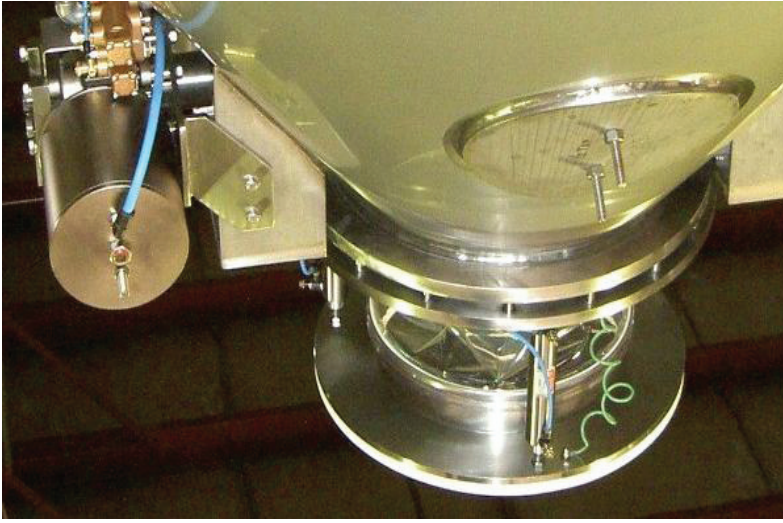


Telescoping sleeves are used where height differences need to be accommodated. A flexible sleeve can have an extension of 4" to 12". Flexible sleeves also come in a tool less design.

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Bulk bags (Cont'd)



The sleeve material can be seen through, grounded and FDA compliant.



Once blending is complete, Operators on the lower level can discharge. These flexible sleeves can make a dust tight seal to the opening of a bin. Valve controls are easily accessible to the operator.

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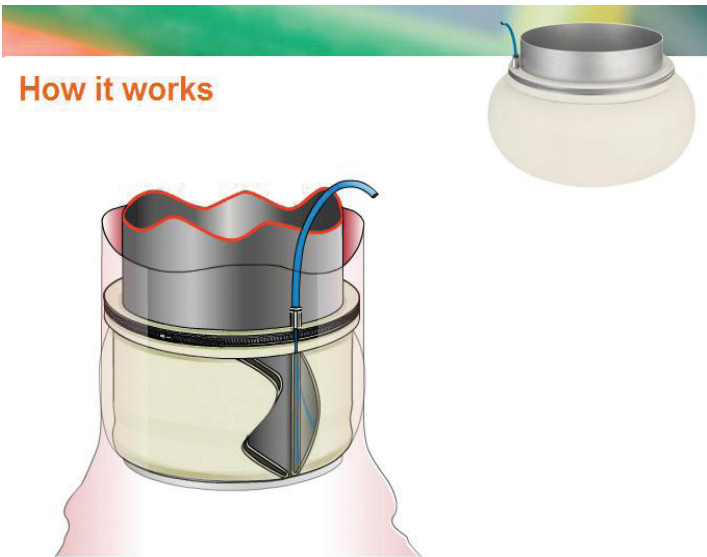
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Bulk bags (Cont'd)

Discharging to bulk bags

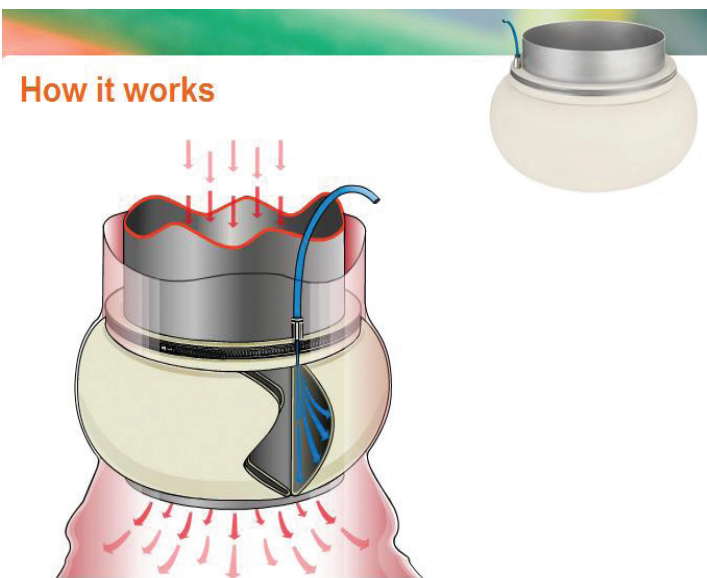
When it's time to discharge, the operator removes the charging seal and replaces it with the discharging seal. It is done by removing one clamp and one quick disconnect airline. Simple hand controls are mounted right within reach for the operator to control flow into the bag. The "hands on" attention of the operator prevents overfilling.

How it works



A pneumatic seal with outward expansion is mounted under the valve. The neck of the bulk bag is pulled up and over the seal.

How it works



The seal is inflated and expands against the inside of the bag neck creating a dust tight closure, and it holds the bag too.

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