Spin Pompen

MURZAN

BIN UNLOADING SYSTEM, TUS-50

The Murzan TUS-50 is the ideal solution for emptying 1000 litre (IBC) Intermediate Bulk Containers and standard 1135 litre (300 US gallon) wooden totes of highly viscous products. Used in applications that no pump alone can handle, the Murzan TUS-50 unloads viscous pastes and concentrates cleanly and quickly. Additionally, the Murzan TUS-50 conforms to FDA requirements for approved materials, is CIP capable, and incorporates the USDA listed Murzan PI50.

Construction

The Murzan TUS-50 system consists of two T-316L stainless steel, hygienic Double-Suction **Murzan PI50** Diaphragm pumps mounted on a food grade follower plate and fitted with a food grade flexible wiper which cleans the inside of the IBC as it is emptied. The pump and follower plate are supported by a T-304 stainless steel polished frame.

The TUS-50 is equipped with four air cylinders that lift the pump and follower plate out of the container once it is empty. A NEMA 4X stainless steel control panel contains all pneumatic/electric components and provides a user-friendly operator interface.

Capacity

Capacities exceeding 150 L/m may be achieved depending on the specific gravity, viscosity, consistency of the product, and the total dynamic head (TDH) of the application.

Operation

The operation of the TUS-50 is very simple. With the IBC in place, the compressed air in the bottom of the air cylinders is released, and the pump and follower plate are lowered into the container. The pump and follower plate rests on the surface of the product. As the product is pumped out of the container, the pump and follower plate travel down into the IBC wiping the walls of the container. Once the container is empty, air is directed back into the air cylinders and the pump and follower plate are lifted out the IBC.

Advantages of the Murzan TUS-50

- Cleanly and quickly empties (IBC) containers of viscous products such as 33° Brix tomato paste concentrate in less than 12 minutes without adding water for perfect control of the paste unloading and final product consistency.
- Provides hygienic, hands-off solution for unloading (IBC) containers
- Unit is offered with optional metering capabilities
- Can be customized to fit the shape of your container
- Designed for CIP capability

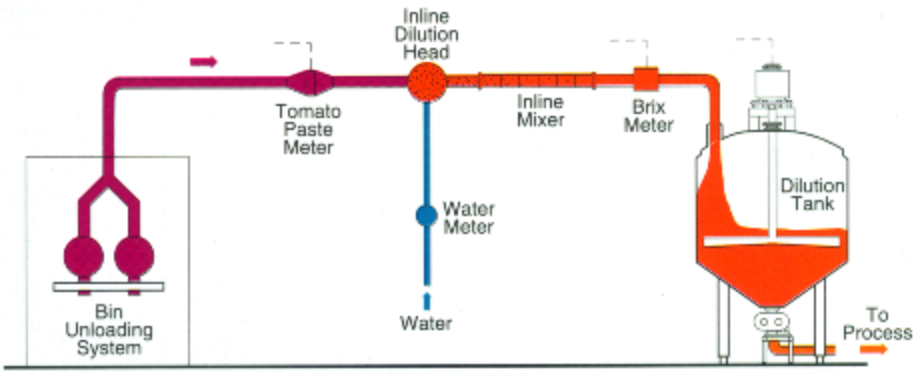
MURZAN IN-LINE DILUTION SYSTEM

Incorporate the Murzan TUS-50 with the Murzan In-Line Dilution System

Increase your profit and reduce your capital investment by eliminating the necessity of numerous batching vessels with costly agitators whilst saving plant space and reducing maintenance and daily cleaning costs.

Increase your tomato concentrate yield with Murzan Automatic In-line Brix Control System. Any excess refractive index (Brix Value) over the required Brix is money lost and represents decreased profits per case.

Increase your plant capacity. Tomato Paste dilution and standardizing is accomplished simultaneously with unloading thus reducing your batch times by as much as one half or more. A perfectly standardized product with minimal to no lumps is produced further reducing batch times by reducing the need for additional agitation.



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