

VARI-STROKE DISCHARGE STATION

General:

The IBC Vari-Stroke Discharge Station is part of the unique Matcontainer range of equipment designed to discharge Matcon's Cone Valve Intermediate Bulk Containers (IBCs) for flowable solids such as powders and granules.

Discharging:

The Discharge Station incorporates a powerful lifting "probe" which engages and locks to the Cone Valve in the IBC. On demand, this probe lifts rapidly and powerfully using a pneumatic bellows, carrying the Cone Valve upwards into the contents of the IBC and creating an annular gap around the perimeter of the Cone Valve, through which the material will discharge in a mass-flow manner. The stroke of lift height (and thus the annular gap) is automatically varied to suit the flow characteristics of the material and the desired discharge rate. The probe may vibrate if required, thus imparting further energy into the material if required to induce flow. For materials which adhere to the sides of the IBC, the Discharge Station can include frame vibrators, which vibrate the entire IBC and its contents.

Dosing & Automatic Control:

The Vari-Stroke Discharge Station is designed to provide automatic fast, accurate batching of powders, granules and other materials direct from an IBC using variable lift height control of the Cone Valve. By means of a weight signal (either Gain In Weight or Loss In Weight) Vari-Stroke can achieve batch accuracies to within 50g for many materials.

Sealed Operation:

The Lip Seal is a feature that is fitted to all Matcon Discharge Stations. This provides a sealed connection between the outlet of the IBC and the Discharge Station during material Discharge. In addition, an expanding "Pneumaseal" locks the Discharge Station probe to the IBC Cone Valve to deliver an even higher level of dust tight operation before, during and after material transfer.

Cleaning:

The IBC Discharge Station is designed to be easily and thoroughly cleaned. Working components are fully sealed behind an air-tight flexible cover. Cleaning may be done off place by removing the central probe (material contact surfaces) and washing manually in a suitable location. Alternatively Cleaning In Place (CIP) may be used to automatically wash the material contact surfaces without probe removal.

Options:

As standard the IBC Discharge Station is manufactured in Stainless Steel. The following options are available.

- Mild Steel frame.
- Air wash cleaning system.
- Clean In Place (CIP).
- Gravimetric, Loss In Weight operation.
- Frame Vibrators.

