

PHARMACEUTICAL NEWSLETTER

LIANCO

Powder Processing, Conveying & Containment Specialists

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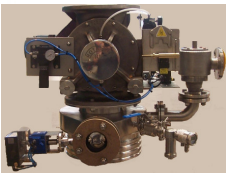
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Hosokawa Pack-Off Heads



**HOSOKAWA
MICRON**



Customised pack-off heads delivered to pharmaceutical companies in Ireland recently. The first system was designed for contained pack-off from a centrifuge which had very restrictive head height. The pack-off head included inflate, N₂ inertion, extract, constant pressure monitoring, control and safety relief to maintain positive pressures in the upstream equipment. This compact design filling head (less than 300mm) was integrated with a fast clean rotary valve which acted as an airtight between the centrifuge and the pack-off head.

The second system included process chutes, a rotary metering valve for accurate control of the product dosing, N₂ purge, extraction, outward inflatable sealing head complete with CIP connections. A hygienic flexible bellows with an inner liner to prevent product hang up, allowed individual sections the process chutes and valves to be removed for cleaning and maintenance without removing the entire installation.

The systems were designed to meet the requirements of ATEX 2 G D (Zone 1 & 21) IIB T4.

Visval High Containment FIBC filling & Discharge

Visval

Safe Bulk Logistics



The patent pending SoliValve® technology introduced by Visval (www.visval.ch) allows for the first time fully automated and high containment handling of bulk powders with common packing and containers. The SoliValve® technology is based on a low cost passive valve that can be fitted to any type of FIBC, drum or rigid IBC which enables them to be connected to the active docking valve. Once the active and passive are docked and locked the FIBC or container can be opened for powder

transfer. The valve has unique features such as internal fluidisation and vibration to improve flow of poor flowing powders and the valve can be closed and undocked even with partially empty containers while still achieving sub 10 µg containment levels. The valve can be supplied with full PLC control in ATEX Zone 20 installations and can be supplied in a full range of materials including Hastelloy and FDA approved seals including Kalrez.

Technilab ATEX Vacuum Transfer units.



Technilab supply a complete range of safe area and ATEX rated Vacuum Transfer Units (VTUs). Based on dense phase conveying Technilab VTUs provides gentle conveying for sensitive products with high product transfer for low carrier gas flow rates. Technilab provide a complete package from the suction lance, receiver, filters, vacuum pump to the control panel and a fully traceable set of documentation. Dense phase vacuum conveying prevents the de-mixing of blended powders. Filters can be disposable or Technilab also provide a range of sintered

stainless steel filters which are suitable for CIP. The vacuum pump and back-up filter can be remotely located to allow for silent operation. The VTU systems can be integrated with in-line sieves or cone mills and are also suitable for tablet press loading and finished tablet conveying or API additions. Nitrogen can be used as the carrier gas to improve safety and systems can be ATEX rated to CAT 2GD Zone 1 and zone 21.

Agents for:



Visval

Safe Bulk Logistics

ROTAVAL

**MECABAG®
SYSTEM**



**TECHNIlab®
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harbruc
INNOVATION

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VALVE
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