

ROTOFLO DISCHARGE UNITS VERSATILE, CONTROLLED, VIBRATION-FREE

Severfield 🖉

INTRODUCTION

Severfield (Products and Processing) is part of Severfield PLC - the UK's market-leading structural steel company. We're built on a commitment to deliver outstanding customer service, being responsive, dependable and flexible to meet all your project needs on time and in full.

A REVOLUTION IN MATERIALS HANDLING

Since its inception at Portasilo more than a decade ago, the Rotoflo Discharge Unit has been continuously developed to ensure it remains at the very forefront of material handling technology.

We purchased the patent and Intellectual Property for Rotoflo from Portasilo in 2020 and it is now our role to produce and develop these units for global distribution.

With an impressive track record across multiple applications, we aim to cement and build on Rotoflo's reputation, making it the universal first choice for silo discharge units.

UNIQUE, VIBRATION-FREE SYSTEM DESIGN

The Rotoflo discharger provides highly efficient, reliable and controlled flow of even the most challenging of materials, without incurring the compilations, costs or side effects associated with vibration or aeration.

Rotoflo represents a cost-effective solution to the common challenges of discharging difficult materials from storage vessels, such as bridging, rat-holing and stagnant zones.

BUILT-IN VERSATILITY

These versatile units can be manufactured from mild steel, stainless steel, or mild combined with a stainless cladding. We can also ensure food-safe finishes depending on your use.

Rotoflo is suitable for new-build and retro-fit applications and achieves complete, controlled and pulse-free discharge - even if you're working with sludges, coagulates or fibrous materials.

Rotoflo units can be supplied with multiple outlets for simultaneous or alternate feeding of up to four feed points and right angle drives are available for restricted spaces. There are also alternative drive options available, including dual and variable speed for weighing and process control applications.

LOW-PROFILE, EASY MAINTENANCE DESIGN

All maintainable items can be serviced without the need to empty the storage vessel, this includes the externally mounted gearbox. The low profile design makes the Rotoflo discharger an ideal solution

for plants and operations when headroom is at a premium.





THE COST-EFFECTIVE SOLUTION TO DIFFICULT DISCHARGE

Rotoflo can reduce your operating costs through:

- Increasing live storage volume in your vessels
- Reducing the need for downstream metering equipment
- Lowering power consumption
- Allowing maintenance access, without the need to empty your vessels

ROTOFLO[®] BENEFITS AT A GLANCE

Controlled discharge – consistent feeding over a wide range of throughputs

Totally sealed and dust free – (fixed, flanged connections with zero flexible joints)

First-in, first-out discharge –can be achieved for better inventory control

Complete silo emptying – eliminates dead storage, increases effective storage capacity

Suitable for a diverse range of materials – from fine powders and particulates, even high moisture and granular products

Low power consumption – high torque, low speed rotation requires (typically) 0.2kW per hour, per tonne discharged

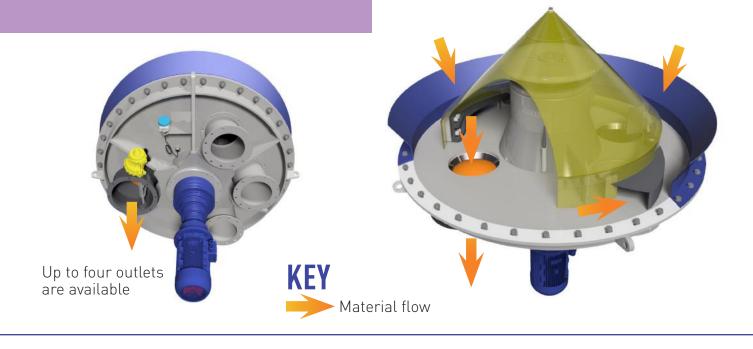
Easy to retrofit - to existing silos and vessels

No vibration – to avoid compaction (eliminates fatigue failures)

ATEX 1D certified – units are available certified ATEX 1D for use in potentially explosive atmospheres

Robust construction – pressure shock resistant design is ideal with explosive materials

Positive shut-off – reversing the drive closes the scoops, enabling positive shut off with the silo full



ROTOFLO HAS BEEN USED FOR

Activated carbon Adipic Acid Air Filter Dust Aluminium Silicate Andracite Artificial Gypsum Astaxin Barium Sulphate Bentonite Blast-furnace Slag Powder Boric Acid Calcium Carbonate Calumite CEM11 China Clay Chocolate Crumb Chromium Oxide Diuron Dolomite Dried Sewage Granulate Pellets Ferrous Sulphate Heptahydrate Ferrous Sulphate Monohydrate Fillite Fumed Silica Glass Granulated Sugar Gypsum Powder

Hydroxy EthylCellulose Hydrated Lime Kaolin - Anhydrous Kaolin - Hydrous Lead Oxide Magnesium Oxide Magnesium Silicate Magnesium Sulphate Maize Maize Starch Marble Powder Microdol Milled Biomass Milled Coal Modified Corn Starch Morden R Oat bran Concentrate Opacilite Ordinary Portland Cement Pulverised Activated Carbon Pulverised Fuel Ash Polyelectrolyte Polymer Potato Starch Precipitated Calcium Carbonate PVC resin Quicklime Recycled plasterboard

Rice bran concentrate Salt Sand Sewage Sludge Pellets Silica - Powder Silica - Precipitated Sodium Bi Carbonate Sodium Carbonate Sodium Chloride Soya Bean Feed Spanish Gypsum Starch Steatite Stucco Plaster Super Absorbent Molecule Titanium Dioxide Urea Prill Wheat fibre Wheat Flour Corn Meal Wood flour Zeocross Zeodent Zeolex Zinc Oxide Zinc Phosphate

IF YOU WOULD LIKE TO FIND OUT MORE ABOUT THE ROTOFLO DISCHARGE UNITS, PLEASE GET IN TOUCH.

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