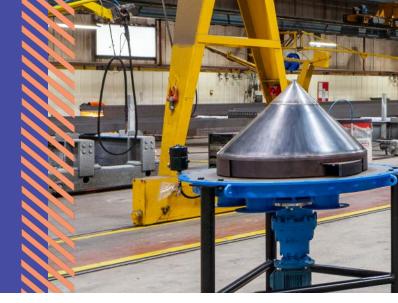


È.



# Severfield INTRODUCTION

Severfield Modular Solutions Limited is part of Severfield plc - the UK's market-leading structural steel company. Its success is built on its commitment to delivering outstanding customer service, being responsive, dependable, and flexible, ensuring it meets all your project needs on time and in full.



## A REVOLUTION IN MATERIALS HANDLING

Since its inception at Portasilo, the Rotoflo Silo Discharger has been continuously developed to ensure it meets the most demanding of applications. As a result, Rotoflo remains at the 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 our global customer base.

By working closely with our customers, we ensure we understand their specific needs and requirements, helping increase manufacturing efficiency, increase productivity, reduce downtime, and reduce maintenance costs.

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

#### UNIQUE VIBRATION-FREE SYSTEM DESIGN

The Rotoflo discharger provides a highly efficient, reliable, and controlled flow of even the most challenging 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**

The Rotoflo is available in a range of sizes and materials construction to meet your specific application and feed rates. These versatile units can be manufactured from mild steel, stainless steel, or mild steel combined with a stainless-steel cladding. We can also provide food-safe finishes and ATEX-rated equipment to suit your requirements.

Rotoflo can be mounted in new-build and retro-fit silo applications and achieves complete, controlled, and pulse-free discharge on vessels ranging from 20m<sup>3</sup> to 600m<sup>3</sup> storage capacity.

Rotoflo units can be supplied with multiple outlets for simultaneous or alternate material feeding of up to four discharge points. 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 easily 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 where headroom is at a premium.

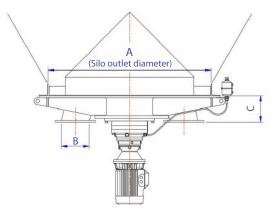


## THE COST-EFFECTIVE SOLUTION

- Reduces capex
- Increasing live storage volume in your vessels
- Multiple discharging points from the same silo
- Reducing the need for downstream equipment
- Lowering power consumption
- Allowing maintenance access, without the need to
   empty your vessel

## **TECHNICAL DATA**

The Rotoflo offers a range of options tailored to suit various industrial needs. Available in four sizes the Rotoflo caters to a broad spectrum of silo capacities, spanning from 20m<sup>3</sup> to 600m<sup>3</sup>. Each model of the Rotoflo is available in both carbon steel and stainless steel. This flexibility ensures compatibility with diverse operational environments and material handling requirements.



Rotoflo	A (mm)	B (mm)	C (mm)	Through-put*
LP 1200	1200	200	250	1.5-60m³/hr
LP 1500	1500	250	300	2.4 - 80m³/hr
LP 1800	1800	300	350	4.8 - 120 m³/hr
LP 2400	2400	350	450	8 - 160 m³/hr

\*Low speed gear box option or frequency inverter can be used to achieve lower throughputs

#### **ROTOFLO ® BENEFITS**

- Controlled discharge consistent feeding over a wide range of throughputs.
- Multiple outlets feeds up to four process streams from the same silo.
- Totally sealed and dust free fixed, flanged connections with no flexible joints.
- First-In, First-Out discharge can be achieved for better inventory control.
- Complete silo emptying eliminates dead storage and increases effective storage capacity.
- Suitable for a diverse range of materials from fine powders and particulates to 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 avoids product compaction and eliminates vessel fatigue failures.
- ATEX certified units are available certified ATEX
   1D for use in potentially explosive atmospheres.
- Robust construction pressure shock resistant design, ideal with explosive materials.
- Positive shut-off reversing the drive closes the scoops, enabling positive shut off with the silo full.
- Minimal maintenance requirements increased productivity and lower running costs.
- Industry leading reliability 20+ years of troublefree operation.





## 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 Caster Sugar Calcium Carbonate Calumite CEM11 China Clay Chocolate Crumb Chromium Oxide Diuron Dolomite Dried Sewage Granulate Pellets Ferrous Sulphate Heptahydrate Ferrous Sulphate Monohydrate Fillite Flour Fumed Silica Glass

Granulated Sugar Gypsum Powder Hydroxy Ethyl (Calcium Hydroxide) Hydrated Lime Kaolin - Anhydrous Kaolin - Hvdrous 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 (Calcium Oxide) Recycled plasterboard Rice bran concentrate Salt Sand Sewage Sludge Pellets Silica - Powder Silica - Precipitated Sodium Bi Carbonate Sodium Carbonate (Soda Ash) 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

#### TO FIND OUT MORE ABOUT ROTOFLO SILO DISCHARGER, PLEASE CONTACT US OR VISIT OUR WEBSITE AT: www.severfield.com/products/material-handling/rotoflo

Severfield Modular Solutions Limited Severs House Dalton Airfield Industrial Estate Dalton, Thirsk North Yorkshire YO7 3JN United Kingdom

#### C Telephone

Steve Kennedy: Rocco Mastrolonardo: Office: +44 (0) 7817 538523 +44 (0) 7803 625361 +44 (0) 1845 577896

#### ⊠Email

rotoflo@severfield.com

Severfield
Rotoflo
Silo Discharger





SCAN THE QR CODE FOR OUR ROTOFLO WEBPAGE

X in O www.severfield.com