



TransFlow® Fluidizing Products

Engineered for Better Performance and Longer Life

TransFlow® Fluidization Devices deliver reliable handling and discharging for even the toughest cohesive materials. Fine bulk powders can be a real pain. They bridge, rat-hole, and create all sorts of problems in your storage bins, silos, and conveying lines. Extreme cohesiveness can cause even more issues in downspouts and transitions. And using vibration only makes things worse by compacting the material even further.

That's why we developed the TransFlow® fluidization line of products. This innovative technology is a game-changer for those stubborn bulk materials that refuse to cooperate. Years of research have gone into perfecting the design and manufacturing process, resulting in a product lifespan up to ten times longer than conventional fluidization devices.



Learn
more at
younginds.com



How TransFlow® Works

TransFlow® is a porous 316 stainless steel media with an ultra-smooth surface. This creates a thin layer of air that separates the bulk material from the media, allowing it to flow freely to the discharge outlet. We carefully control the permeability and strength of the media, so it can handle even the toughest materials.

TransFlow® is the go-to solution when nothing else seems to work. It's a proven performer in demanding industries like chemical, paint and coating, plastic, food, bakery, and pharmaceutical manufacturing.

Here's what TransFlow® can do for you:

1. **Reliable flow:** Say goodbye to bridging and rat-holing.
2. **Higher flow rates:** Get more out of your existing equipment.
3. **Lower maintenance costs:** Durable and long-lasting, with no moving parts to wear out.
4. **Reduced downtime:** Easy to clean and maintain.
5. **Lower operating costs:** Uses less compressed air than other fluidization devices.

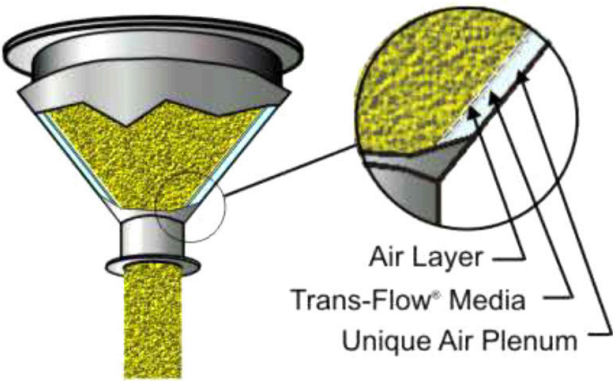
Specifications for Long Lasting Service	
Material	AISI type 316 stainless steel fluidizing media
Operating Temperature	Up to 1000°F
Corrosion and Oxidation Resistance	Excellent
Strength	Up to ten times stronger than other fluidizing media

Uses Less Air or Gas

Most applications only need 3 to 5 PSIG of air pressure. The maximum pressure recommended is 15 PSIG. And unlike other fluidization devices, you can shut the air off when you don't need it. We recommend starting fluidization before material discharge.

A positive displacement blower is the most economical air supply. For applications using less than 200 SCFM, plant-compressed air or gas can be used as long as it's regulated, clean, and dry.

Basic Design of TransFlow® Fluidizing Products

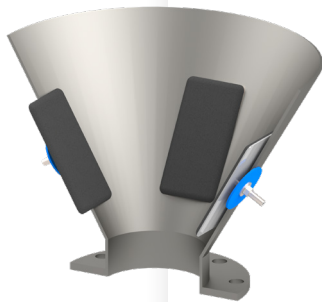


TransFlow® Fluidizing Products



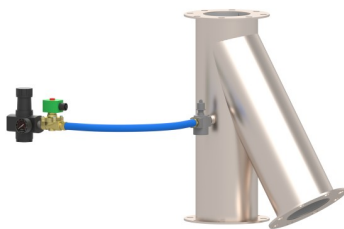
TransFlow® Hoppers: No More Bridging or Rat-holing

Eliminate bridging and rat-holing in bins, hoppers, and silos. TransFlow® technology uses low-pressure air to fluidize powder, ensuring smooth and consistent flow. It's like creating a slippery slope for your material, preventing clogs and downtime.



TransFlow® Fluidization Pads: A New Generation of Performance

Experience a new level of performance with these durable and efficient fluidization pads. Engineered for long life and superior performance, they last up to ten times longer than conventional options. The unique design maximizes surface area for optimal fluidization.



TransFlow® Transitions and Downspouts: Solve Material Flow Problems

Keep your material moving smoothly through every stage of your process. Custom-engineered TransFlow® transitions and downspouts eliminate hang-ups and ensure reliable flow, even at shallower angles, saving you valuable space.

Some Commonly Handled Product Applications

- ▼ ABS Compound
- ▼ Acetate
- ▼ Activated Carbon
- ▼ Adipic Acid
- ▼ Alumina
- ▼ Aluminum Oxide
- ▼ Ammonium Nitrate
- ▼ Antimony Oxide
- ▼ Antomite
- ▼ Aspirin Powders
- ▼ Bleach
- ▼ Borax
- ▼ Cab-O-Sil
- ▼ Calcium Carbonate
- ▼ Calcium Chloride
- ▼ Carbon Black
- ▼ Cellulose Powder
- ▼ Cement
- ▼ Cereals
- ▼ Citric Acid
- ▼ Clay Powders
- ▼ Cocoa Powders
- ▼ Copper Powders
- ▼ Corn Flour
- ▼ Detergent Powders
- ▼ Diatomaceous Earth
- ▼ Dolomite
- ▼ Feldspar
- ▼ Ferrite Powder
- ▼ Fertilizers
- ▼ FlyAsh
- ▼ Fumed Silica
- ▼ Gilsonite
- ▼ Gluten Meal
- ▼ Gypsum
- ▼ Hydrol
- ▼ Iron Oxide
- ▼ Kaolin Clay
- ▼ Lime
- ▼ Limestone Dust
- ▼ Magnesium Sulfate
- ▼ Metal Powders
- ▼ Milk (Powdered)
- ▼ Nylon
- ▼ Oat Flour
- ▼ Pebble Lime
- ▼ Phenolic Resin
- ▼ Phosphates
- ▼ Pigments
- ▼ Polymers
- ▼ Potash
- ▼ Pumice
- ▼ PVC Powder
- ▼ Quartz Dust
- ▼ Sawdust
- ▼ Silica Flour
- ▼ Silicone Powders
- ▼ Soap (Detergents)
- ▼ Soda Ash
- ▼ Sodium Bicarbonate
- ▼ Sodium Phosphates
- ▼ Sodium Sulfate
- ▼ Spices
- ▼ Starch
- ▼ Sugar
- ▼ Talcum
- ▼ Tea
- ▼ Titanium Dioxide
- ▼ Urea
- ▼ Whiting
- ▼ Zinc Oxide

Fine-Tune Your Process with Product Testing

Want to see firsthand how TransFlow® Fluidization products can solve your material flow challenges? We offer comprehensive product testing at our Muncy, PA facility. Contact us to set up time to see the process.

We also have a wide range of other bulk material handling equipment on hand to help you solve your toughest challenges, including:

- ▼ Pneumatic conveying
- ▼ Mixing and blending
- ▼ Size reduction and classification
- ▼ Sifting
- ▼ Air quality control



TransFlow[®] Bin Dischargers

No More Bottlenecks

Application

Tired of wrestling with stubborn, cohesive bulk materials in your bins and silos? TransFlow[®] Bin Dischargers are engineered to get those tough-to-handle powders flowing smoothly. Whether you're dealing with white pigments, carbon black, or calcium stearate, we've got a solution that fits your needs. Choose from a variety of cone angles (60°, 45°, 30°) or request a custom design.

Design

TransFlow[®] Bin Dischargers feature a hopper cone lined with our unique TransFlow[®] fluidization media. This media uses low-pressure air or gas to fluidize the powder, making it flow like a liquid. It creates an even layer of air that reduces friction, ensuring a consistent and reliable discharge.

Features & Benefits

TransFlow[®] Bin Dischargers offer a ton of advantages:

- ▼ **Reliable flow:** Eliminate bridging, rat-holing, and production delays.
- ▼ **Higher flow rates:** Maximize your throughput and get the most out of your equipment.
- ▼ **Low maintenance:** Durable, corrosion-resistant construction with no moving parts to wear out.
- ▼ **Easy to clean:** Minimize downtime and keep your process running smoothly.
- ▼ **Efficient operation:** Uses less compressed air, saving you money.



Optional Additions:

- ▼ Air or gas piping system with controls
- ▼ Compressor or positive displacement blower
- ▼ Special paint
- ▼ Pneumatic or mechanical conveying system components
- ▼ Custom designs

Air Supply Requirements

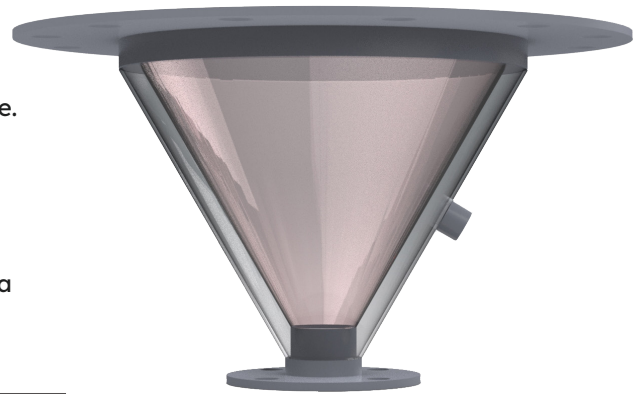
Most applications need only 3 to 5 PSIG of air pressure (maximum 11 PSIG). Fluidizing air can be shut off when not needed. A positive displacement blower is the most efficient air source, but plant-compressed air can be used if it's clean, dry, and regulated.

Cleanability

TransFlow® Bin Dischargers can be cleaned with water and detergent, high-pressure steam, or standard chemical cleaning methods. The Bin Dischargers are non-migrating, quick-drying, and don't retain moisture.

How to order TransFlow® Bin Dischargers

Contact us today with a description or sample of your material and your silo or bin dimensions. We'll review your application and provide a prompt quote.



TransFlow® hoppers are available in sizes up to 8 feet in diameter for new applications and storage silo cone replacements. The flange connection can be designed to match any silo connection. The interior is fully lined with TransFlow® fluidizing media.

Specifications for Long Lasting Service	
Material	Carbon Steel or 304 Stainless Steel where product contacts the discharger, with AISI type 316 stainless steel fluidizing media.
Operating Temperature	Up to 1000°F
Corrosion and Oxidation Resistance	Excellent
Strength	Resists abrasion and puncture.
Welding	All welders are qualified to Section IX ASME Code.
Interior and Exterior Finishes	Class 2 per Y.I. Spec. 185.200.

TransFlow® Fluidizing Pads

Boost Your Bin Performance

Application

Dealing with sluggish powders that clog your bins and hoppers? TransFlow® Fluidization Pads ensure a smooth and consistent flow of fine powdered bulk materials like lime, flour, soda ash, bran, clay, carbon black, sawdust, detergents, and resins.

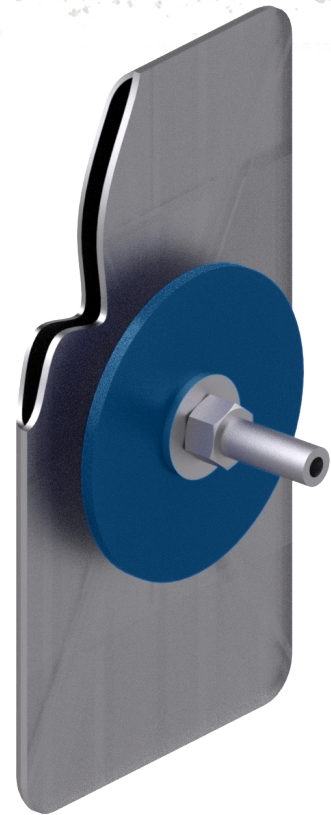
Design

These pads are built with our TransFlow® fluidization media, a multi-layer wire mesh with a smooth surface that creates an even layer of air for effortless material flow. Unlike other fluidization devices, TransFlow® pads dry quickly and can be cleaned with chemicals or steam. They won't flake, chip, or degrade like pads with plastic or rubber covers and are abrasion- and corrosion-resistant.

Features & Benefits

TransFlow® Fluidization Pads offer a ton of advantages:

- ▼ **Reliable flow:** Keep your materials moving.
- ▼ **Higher flow rates:** Get more out of your existing equipment.
- ▼ **Low maintenance:** Durable, long-lasting, and no moving parts to wear out.
- ▼ **Easy to clean:** Minimize downtime and keep your process running smoothly.
- ▼ **Efficient operation:** Uses less compressed air, saving you money.
- ▼ **Lifetime warranty:** That's how confident we are in their performance!



Optional Additions:

- ▼ Air or gas piping system with controls
- ▼ Compressor or positive displacement blower
- ▼ Pneumatic or mechanical conveying system components
- ▼ Custom designs

Air Supply Requirements

Each pad requires 5 to 10 SCFM of compressed air or gas. We recommend 3 to 15 PSIG of pressure for most applications. The recommended maximum pressure is 50 PSIG. And you can shut the air off when you don't need it. We recommend starting fluidization before material discharge.

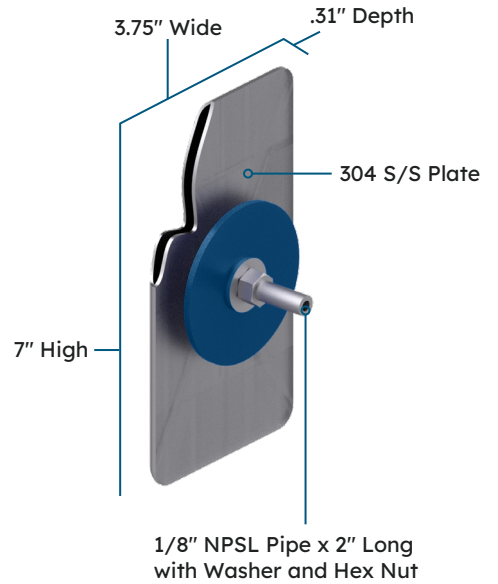
Cleanability

TransFlow® can be cleaned with ordinary water and detergent, high-pressure steam, or standard chemical cleaning methods. No worries about contamination or moisture buildup.

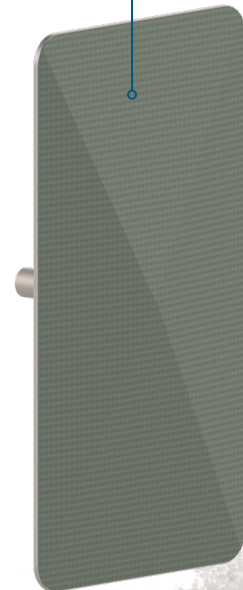
Installation

Depending on your material and hopper design, you might need two or more pads to get the best results. If you use two, mount them across from each other near the edge of the discharge opening. If you need four, space them equally around the opening. If you need even more, add them in a straight row above the first row.

For most powders, keep the pads at least 12" apart. For trickier materials or hoppers with less slope, you might need to place them closer together.



TransFlow® Fluidizing Media



General Specifications	
Material	AISI type 316 stainless steel fluidizing media with AISI type 304 stainless steel back and plated steel threaded pipe.
Operating Temperature	Up to 1000°F
Corrosion and Oxidation Resistance	Excellent
Strength	Up to ten times stronger than other fluidizing media. Resistant to abrasion and puncture.
Size	3.75" wide x 7" long x .31" high with a 1/8" threaded pipe, 2" long

TransFlow[®] Transitions & Downspouts

Smooth Material Flow Every Step of the Way

Application

Keep your bulk materials moving seamlessly through every stage of your process with TransFlow[®] Transitions and Downspouts. Designed to handle difficult-flowing powders and cohesive materials like pigments and fine powders, they eliminate hang-ups and ensure reliable flow, even in tight spaces or when you need to save valuable headroom.

Design

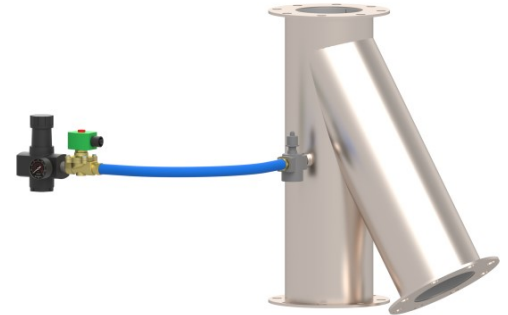
TransFlow[®] Transitions and Downspouts are lined with our TransFlow[®] fluidization media. This lining uses low-pressure air or gas to fluidize the powder, making it flow like a liquid and preventing clogs.

The fluidizing air creates an even layer that reduces friction between the material and the transition or downspout surface, ensuring smooth and consistent movement. Plus, with TransFlow[®], you can design downspouts with shallower angles, optimizing your facility's space.

Features & Benefits

TransFlow[®] Transitions and Downspouts offer a ton of advantages:

- ▼ **Reliable flow:** Keep your materials moving without hang-ups or clogs.
- ▼ **Higher flow rates:** Get more throughput from your system.
- ▼ **Low maintenance:** Durable, corrosion-resistant, and no moving parts to wear out.
- ▼ **Easy to clean:** Minimize downtime and keep your process running smoothly.
- ▼ **Efficient operation:** Uses less compressed air, saving you money.



Optional Additions:

- ▼ Air or gas piping system with controls
- ▼ Compressor or positive displacement blower
- ▼ Special paint
- ▼ Pneumatic or mechanical conveying system components
- ▼ Custom designs

Air Supply Requirements

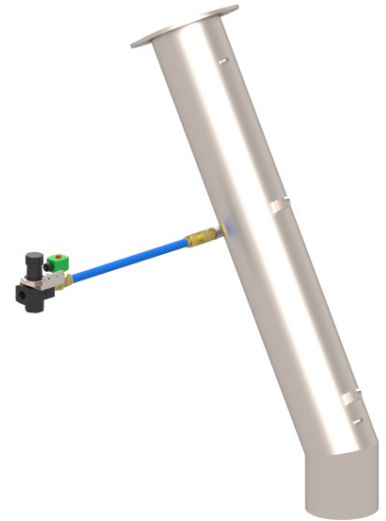
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Cleanability

TransFlow® Transitions and Downspouts can be cleaned with water and detergent, high-pressure steam, or standard chemical cleaning methods. The Transitions and Downspouts are non-migrating, quick-drying, and don't retain moisture.

How to Order TransFlow® Downspouts & Transitions

Contact us today with information about your product, a sample, and your application requirements. All TransFlow® downspouts and transitions are custom-made, and we'll be happy to provide a prompt quote.



Specifications for Long Lasting Service	
Material	Carbon Steel or 304 Stainless Steel where product contacts. Fluidizing media constructed of AISI type 316 stainless steel.
Operating Temperature	Up to 1000°F
Corrosion and Oxidation Resistance	Excellent
Strength	Resists abrasion and puncture.
Welding	All welders qualified to Section IX of the ASME Code.
Interior and Exterior Finishes	Class 2 per YI Spec. 185.200.

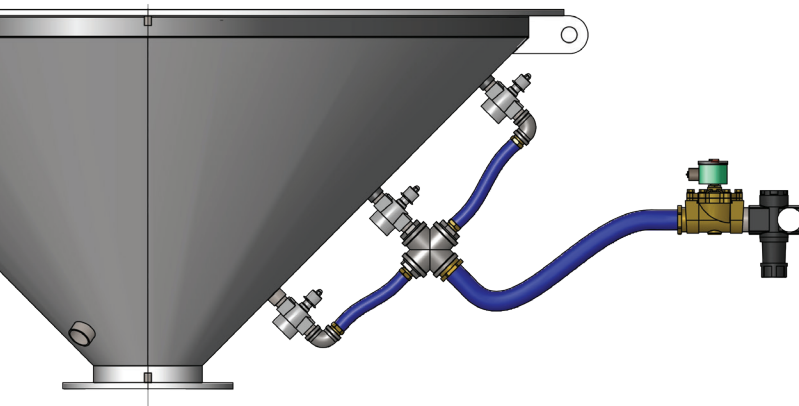


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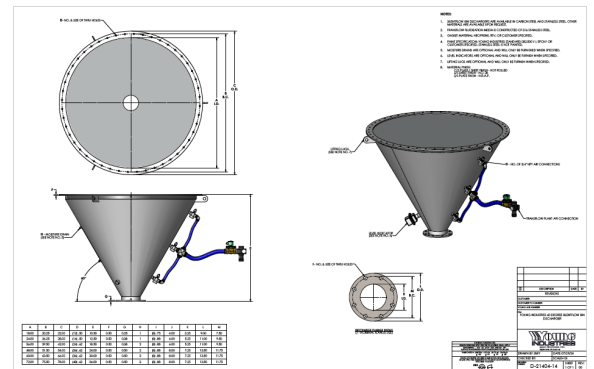
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- ▼ Pneumatic conveying
- ▼ Mixing and blending
- ▼ Size reduction and classification
- ▼ Sifting
- ▼ Air quality control



Free Application Engineering Assistance

Our engineers are ready to help you design the perfect TransFlow® solution for your unique challenges. Whether you're dealing with stubborn powders, bridging, or rat-holing, we'll work with you to create a custom system that optimizes your process.



Questions?

Feel free to contact us anytime.
Our team is always here to help and
provide the support you need!

sales@younginds.com

(800) 546-3165



younginds.com
