

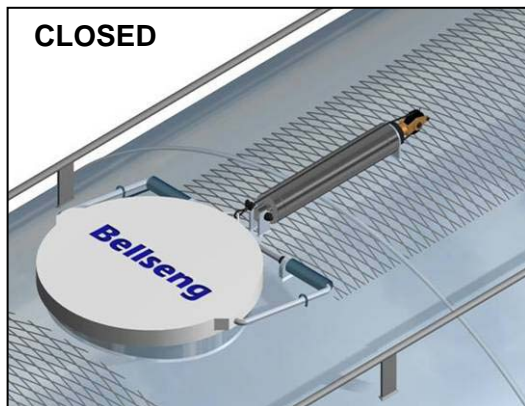
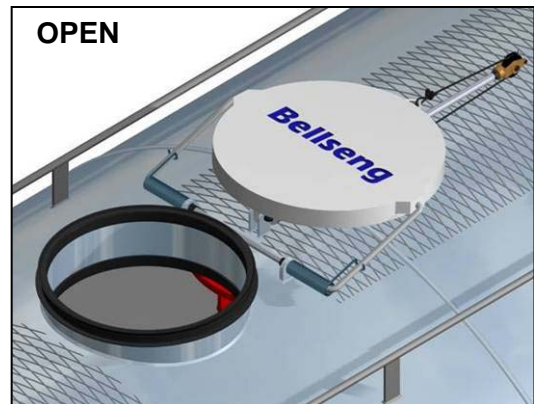
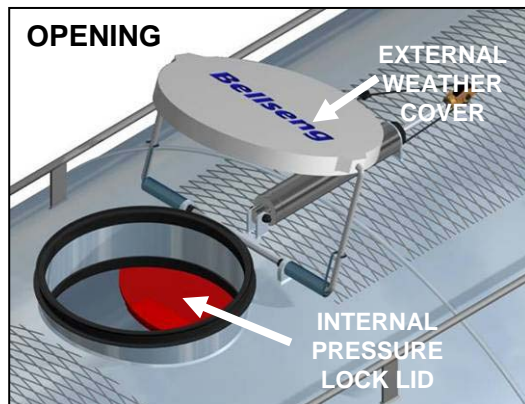
Pressure Lock Manhole Cover



www.solimarpneumatics.com

REVOLUTIONARY GROUND OPERATED MANHOLE COVER

The Bellseng **Pressure Lock Manhole Cover** is an innovative internal port closure that eliminates the need for drivers to climb on the trailer before loading. The one button operation not only **greatly improves driver safety**, but equally **improves the drivers working conditions** and vastly **improves rig turnaround time**



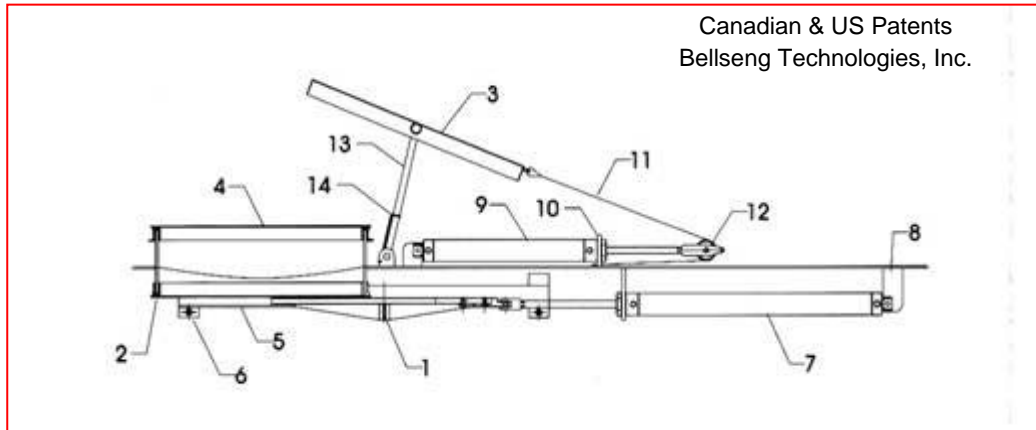
PROVEN – HUNDREDS IN SERVICE IN NORTH AMERICA

RELIABLE – THOUSANDS OF TROUBLE FREE LOADS

Solimar Pneumatics
7256 Commerce Circle
Minneapolis, MN 55432-3109
USA

1 800 233.7109
Phone: 763 574.1820
Fax 763 574.1822
e-mail: solimar@solimarpne.com

Pressure Lock Manhole Cover



- | | |
|-------------------------------|--------------------------------|
| 1. PRESSURE LOCK PORT CLOSURE | 9. WEATHER CAP AIR CYLINDER |
| 2. PORT CLOSURE SEAL | 10. CYLINDER MOUNTING TABS |
| 3. WEATHER CAP | 11. CABLE – 3/16" COATED |
| 4. WEATHER CAP SEAL | 12. CLEVIS SHEAVE ASSEMBLY |
| 5. RAIL ASSEMBLY | 13. WEATHER CAP DAVIT ASSEMBLY |
| 6. RAIL MOUNTING TABS | 14. WEATHER CAP SPRING |
| 7. PORT CLOSURE AIR CYLINDER | 15. CONTROL PANEL (NOT SHOWN) |
| 8. CYLINDER MOUNTING TABS | C/W ALL FITTINGS REQUIRED |

- ✓ Complete kit includes all parts & fittings required for installation (air lines not included)
- ✓ Pneumatically actuated from ground level control panel – one valve operation
- ✓ Weather cap* prevents contamination of the lid operating area and load
- ✓ Weather cap requires only 15 inches (38 cm) of overhead clearance to operate
- ✓ Weighs less than 90 lbs (41 kg)
- ✓ Can be retrofitted into most pneumatic trailers
- ✓ Tested to 45 psi (three times standard operating pressures in North America)
- ✓ High-grade gasket material is suitable for various products
- ✓ Internal lid enhances port sealing & prevents accidental opening of a pressurized tank

* Weather cap assembly can be purchased separately for non-pressurized applications

A Tradition of Leadership - Solimar has over 40 years of experience in pneumatic systems and components for dry bulk handling. Solimar provides engineered solutions to the most difficult material flow problems.



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Check Valve



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RELIABILITY WITH SIMPLICITY



Solimar Pneumatic's **3" Check Valve** is engineered to meet or exceed all requirements for unloading dry bulk products. Solimar's Check Valve offers significant cost and quality improvements over the older style valves to assure smooth and positive operation.

LIGHTWEIGHT ALUMINUM – ONLY 3 lbs.

MULTI-POSITIONAL – MOUNT AT ANY ANGLE

STAINLESS INTERNAL COMPONENTS

**FDA APPROVED SILICONE RUBBER SEALING
SERVICES**

POSITIVE SPRING VALVE CLOSURE

EXCELLENT AIR FLOW

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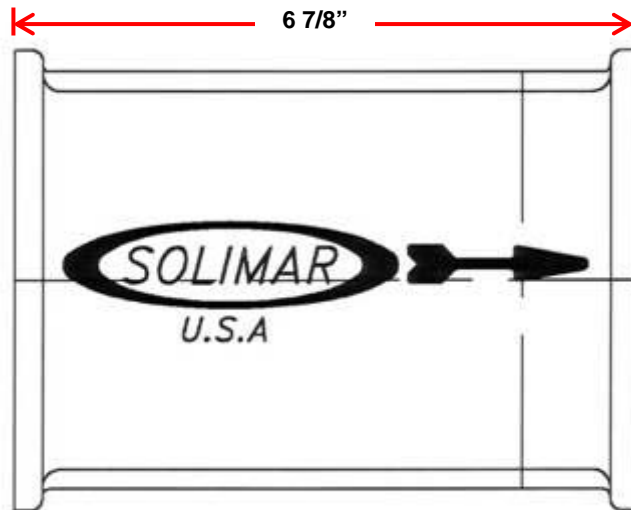
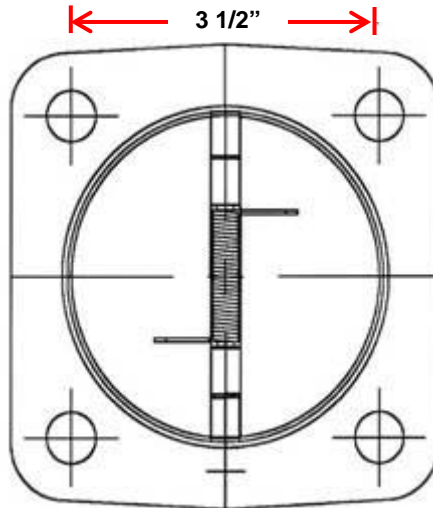
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Check Valve

Fits all industry standard trailers and is available for both new or retro-fitted installation



Solimar Pneumatics is a leading designer and supplier of aeration systems and engineered components for the dry bulk material handling industry. **Solimar** services hundreds of customers worldwide with thousands of applications on over-the-road truck trailers and lorries and intermodal containers.

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Fluidizer Control System



www.solimarpneumatics.com



- ✓ Save Air Energy
- ✓ Pulsate Fluidizers
- ✓ Alternate Fluidizers

The Solimar **Fluidizer Control System**, used in conjunction with the Solimar Silo Fluidizer, keeps dry materials flowing in storage silos, weigh hoppers and filters. The control system is easy to install and allows for simple operation of the Fluidizers. The timer control board allows adjustment of the on/off time interval and duration, assuring good performance for your application.

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Fluidizer Control System

Standard **Control System Packages** are available for operation of one to sixteen Fluidizers.

Custom systems available upon request.

Solimar Fluidizer Control System Packages include:

- ☐ Timer Control Boards with Enclosure*
- ☐ Air Surge Tanks
- ☐ Solenoids
- ☐ Air Regulators
- ☐ Tubing
- ☐ Fittings
- ☐ Installation and Operating Instructions

* All enclosures are NEMA 4 unless otherwise requested.

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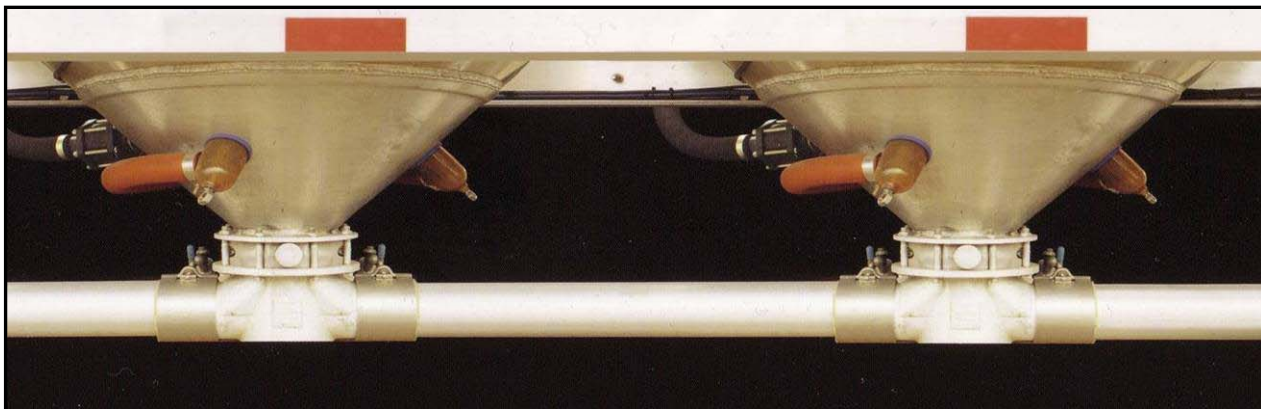
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Disk Fluidizer

For Dry Bulk Tank Trailers



www.solimarpneumatics.com



Solimar's Disk Fluidizer System Provides Aeration and Vibration for Fast, Efficient Unloading of Dry Bulk Materials



Disk Fluidizer Assembly with Hopper Saver

Reliability. Solimar's Disk Fluidizer works effectively to provide aeration, vibration and directional air flow required for rapid unloading of dry bulk trailers and containers.

Easy to Install, Clean and Maintain. Unlike fabric pads that plug or wear out and have to be replaced regularly, the Disk Fluidizer will not plug nor pick up moisture which can cause mildew. Disk Fluidizers will last for years, requiring only annual inspection.

Retrofittable. Solimar Disk Fluidizers can be retrofitted to replace older or inferior style aeration cones. Solimar also carries a complete line of aeration products to upgrade your existing trailer, including cone bottoms, fluidizer plates for Fruehauf trailers, check valves and E-Z Out Access Door.

A Tradition of Leadership. Whether you are hauling cement, flour, starch fly ash or any dry bulk material, Solimar Products will make your job easier. Solimar has over 40 years of experience in pneumatic systems and components for dry bulk handling. Solimar Fluidizer Disks are used in over 60 countries around the world in over 120 bulk material applications.



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Disk Fluidizer For Dry Bulk Tank Trailers

Design Features.

Durable, food grade silicone resists hardening, cracking or tearing.

Available in blue or white and is made to withstand temperatures of 350° F (170° C).

Disk seals tightly to the hopper wall which prevents plugged airlines.

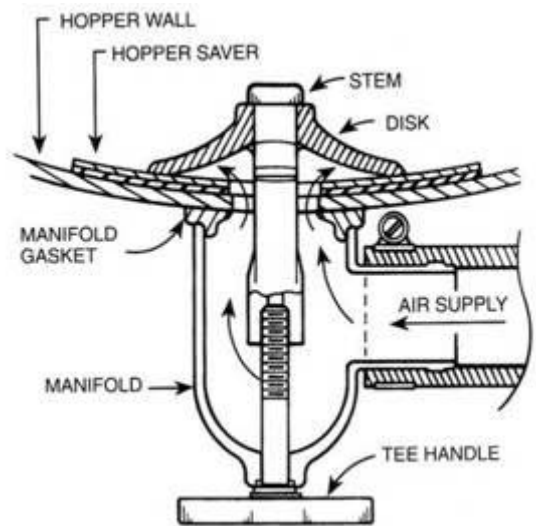
Solimar Stainless Hopper Savers prevent excess hopper wear caused by abrasive materials like cement and sand on the inside of the hopper. The Hopper Saver is silicone rubber backed which provides a tight seal tightly with the trailer's hopper wall.

Solimar Air Manifolds available in fiber reinforced grey or amber colored Clear-View plastic to allow quick visual verification of clean airlines.

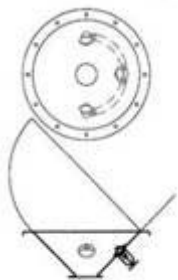
Solimar Manifolds use 1½" and 2" airlines which allow more airflow, less back pressure and higher unloading rates.

How it works. Pressurized air enters the exterior manifold and is forced through the opening of the tank's hopper wall. The fluidizer disk disperses the air along the inside of the hopper. Near the end of the unloading cycle the Fluidizer begins to vibrate. This combination of air flow along the hopper wall and gentle vibration of the disk prevents bridging and ratholing while generating quick product flow to the outlet and ensuring good cleanout of the trailer.

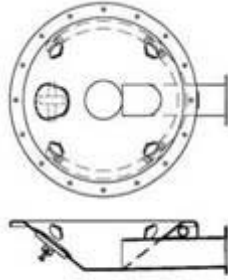
Fits Most Hopper Styles. Solimar's Fluidizer Disks can be used on a variety of hopper styles and will conform to any hopper shape, curved or flat. One, two or three port manifolds are available to allow for various installation combinations.



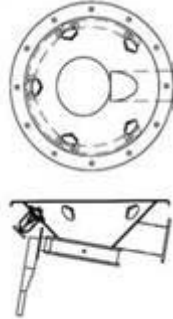
Proven Performance. The Solimar Disk Fluidizer has been used in thousands of trailers, railcars and storage silos as original equipment by leading manufacturers world-wide as well as for retrofitting existing tanks. The Solimar Fluidizer is not interchangeable for reliability and durability with any other aerator. Accept no substitute, specify Solimar aerators on you next trailer.



Tipping Trailer Outlet



Shallow Hopper with Slide
Outlet & Access Door



Hopper with Gravity
Dump Outlet



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E-Z In Silo Fluidizer Kits

www.solimarpneumatics.com

Installs from the outside - quickly and easily
Retro-fits Most Hopper Aeration Openings



E-Z IN Silo Fluidizer assemblies are ideal for retrofitting existing hoppers or bins, or when frequent inspection and maintenance is required. Once Installed, you can also perform regular inspection and maintenance as required from the outside, without confined space entry requirements -- saving you both time and money.

Design Features:

- ✓ Solimar's patented silicone disk (Silo Fluidizer) that will not plug, harden or crack.
- ✓ Unique gasket material seals tight - compensating for any imperfections with no leaks
- ✓ Gasket is permanently fixed to the mounting plate
- ✓ Use with flat or conical hoppers
- ✓ Zinc plated carbon steel mounting plate offers excellent wear resistance
- ✓ Available in stainless steel (oval style) for food grade applications
- ✓ Available in three styles to retro-fit with most existing hole patterns

A Tradition of Leadership. Whether you are moving cement, flour, starch, fly ash or any dry bulk material, Solimar Products will make your job easier. Solimar has over 40 years of experience in pneumatic systems and components for dry bulk handling. Solimar Products are used in over 60 countries around the world in over 120 bulk material applications.

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E-Z In Silo Fluidizer Kits



**Original E-Z In Fluidizer
with the oval shaped
opening for both new
and existing hoppers**

**Retro-fit for
rectangular aeration
pad openings**



**Retro-fit for
circular aeration
pad openings**

Accept No Substitutes –The Solimar E-Z In Silo Fluidizer is in a class by itself and is not interchangeable for reliability and durability with any other system. Accept no substitute. Specify Solimar E-Z In Silo Fluidizers



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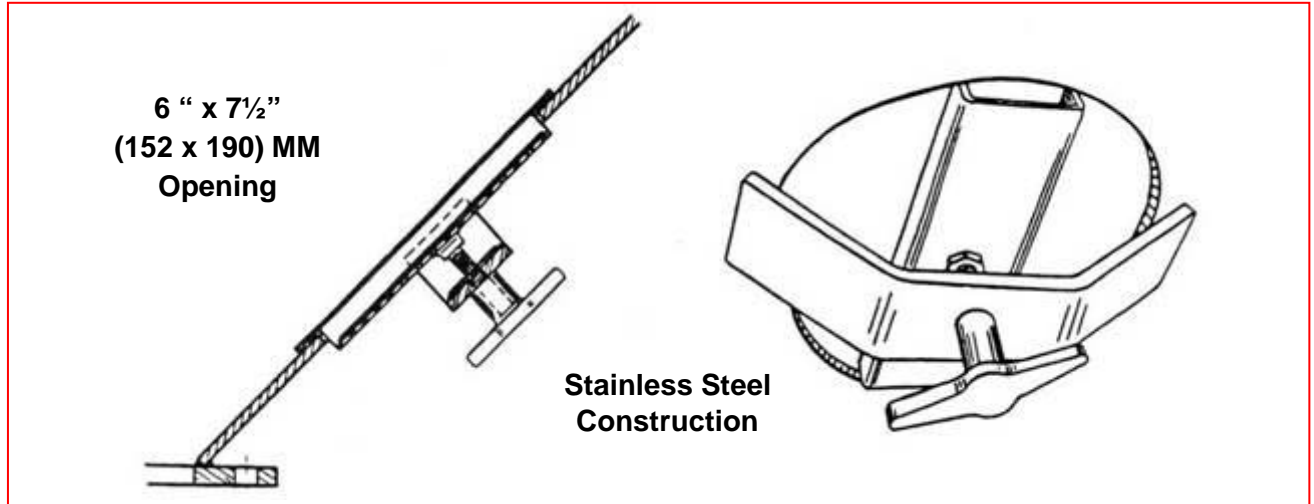
Easy Out Hopper Access Door



www.solimarpneumatics.com

EASY TO INSTALL – EASY TO USE

TRAILERS, STORAGE SILOS, DUST COLLECTORS AND PROCESS EQUIPMENT



ACCESS DOOR ALLOWS EASY HOPPER INTERIOR INSPECTION OR INSTALL SOLIMAR AERATORS WITHOUT GETTING INSIDE THE PRODUCT COMPARTMENT

Stainless construction makes Solimar's E-Z Out Access Door ideal for food, chemicals and plastics.

Molded on food grade gasket provides low profile for minimum product hang-up.

Standard tee-handle closure makes it easy to tighten or open by hand – other closure options available.

Available in two models, flat for square hoppers, curved for conical hoppers.

Limited to 14.7 PSI operation.



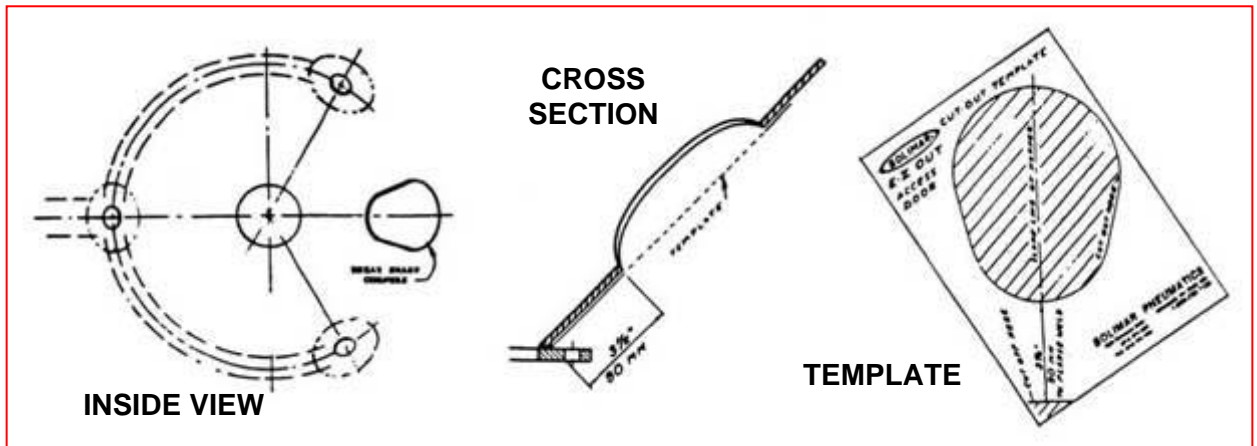
Easy Out Access Door on bulk trailer bottom

A Tradition of Leadership. Whether you are moving cement, flour, starch, fly ash or any dry bulk material, Solimar Products will make your job easier. Solimar has over 40 years of experience in pneumatic systems and components for dry bulk handling. Solimar Products are used in over 60 countries around the world in over 120 bulk material applications.

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Easy Out Hopper Access Door



Trailers with conical hoppers. The Easy Out Access Door opening is located near the bottom outlet and opposite the 3-port manifold so the Access Door does not interfere with the aeration hoses. The lower portion of the opening is located approximately 3 ½ " (90 MM) from the bottom outlet flange.

Other conical hoppers. The Easy Out Access Door can be located where the Access Door fits the outside contour of the hopper.

Square hoppers with flat sides. The door can be located any convenient place.

To locate the Access Door properly –

1. Cut off the lower left corner of the paper template and cut out the shaded area in the middle of the door opening on the template drawing.
2. Tape it to the hopper and trace the opening with the larger portion up.
3. Remove the template and cut the hole in the hopper with a plasma arc (or sabre saw). The reinforcement channel on the exterior of the door will locate the door – do not make the opening too big.
4. Deburr the edges.
5. Fit the stainless steel yoke which extends on each side of the Access Door over the threaded steel bolt projecting from the back of the door. The yoke is held in place by a tee-handle.

CAUTION: DO NOT OPEN DOOR WHILE TANK IS LOADED OR UNDER PRESSURE.



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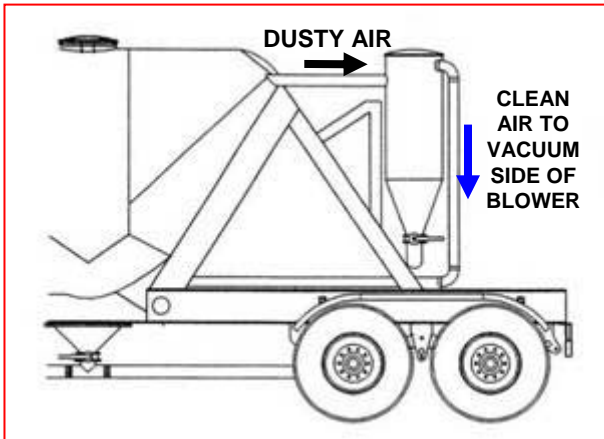
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Filter Systems

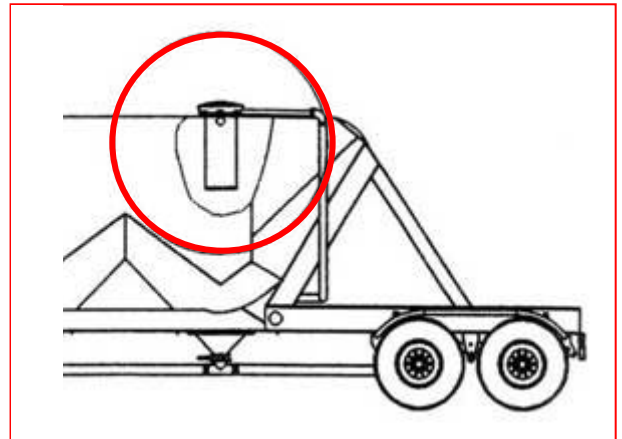


www.solimarpneumatics.com

UNIQUE FILTER MEDIA SIGNIFICANTLY REDUCES DUST
SELF LOADING --- SILO RETURN AIR --- PRESSURE LOADING



External Canister Filter System



Internal Manway Filter System

Large Filter Area in a Compact Space

Easy Individual Inspection

400 or 900 SCFM – Internal System

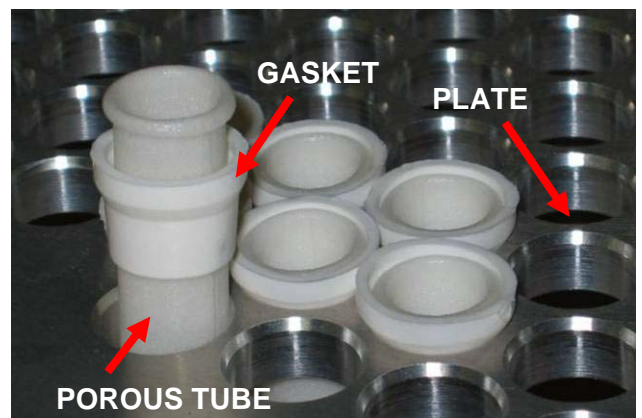
600 to 900 SCFM – External System

Longer Life

The filter tubes are rated for 50 μ particle size and can be used continuously up to 180° F (82° C).

Tubes are fit and gasketed in a machined aluminum mounting plate, which allows for individual inspection and replacement

Solimar Filter Systems eliminate product dust by using unique filtering media of engineered porous polymer. Using multiple tubes with up to $\frac{1}{2}$ ft² of filter area, each, provides a large filtering surface in a compact space.



CLOSE UP OF FILTER COMPONENTS

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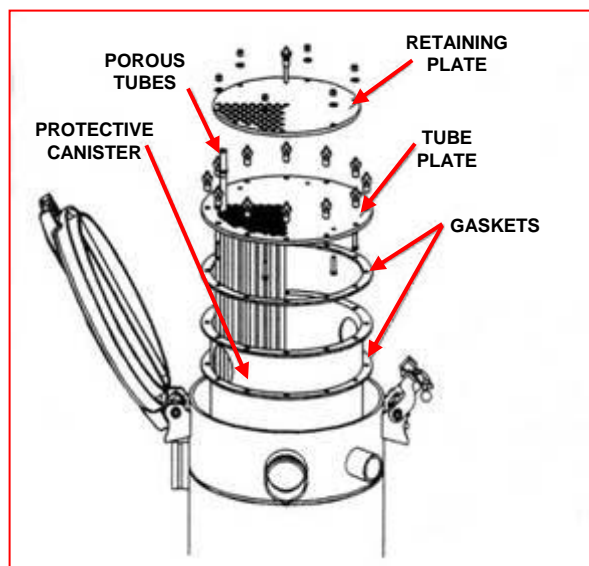
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Filter Systems

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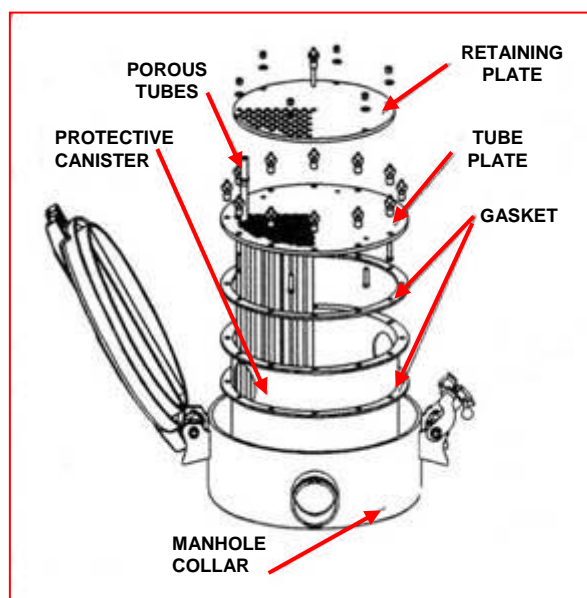
EXTERNAL MOUNT FILTER ASSEMBLIES

Model	Canister Diameter	Filter Tube Length	Air Flow (SCFM)
6071	20"	36"	600
6070	24"	36"	900

All piping connections are designed per customer requirements. The external mount Filter System is equipped with a pressure relief valve to prevent the blower from starving for air and possible damage.

INTERNAL MOUNT FILTER ASSEMBLIES

Model	Mounting Ring Diameter	Filter Tube Length	Air Flow (SCFM)
6054	20"	24"	400
6055	20"	36"	600
6056	24"	24"	600
6057	24"	36"	900



Accept No Substitutes – The Solimar Filter is in a class by itself and is not interchangeable for reliability and durability with any other filter system. Accept no substitute. Specify Solimar Filters.

Solimar products are used in over 60 countries around the world in over 120 bulk material applications.



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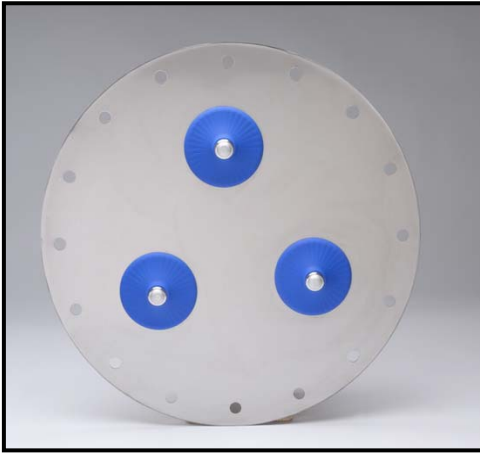
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Fluidizer Plates



www.solimarpneumatics.com



Replaces Fabric Aerator Pads

Fluidizer Plates replace fabric pads and aerator plates used in Fruehauf and other bulk trailers. Installed in the trailer hopper plenum, the plate provides far superior unloading performance compared to fabric pads – faster unloading and better cleanout -- all with less maintenance.

Faster Unloading

Less Maintenance

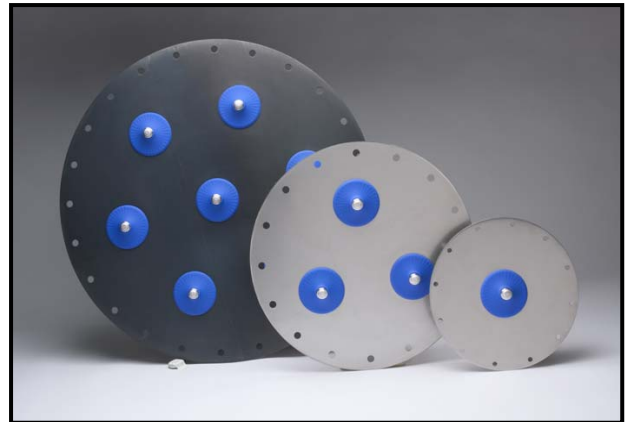
Longer Life

Better Clean-out

No Plugged Lines

Unlike fabric pads that plug or wear out and have to be replaced regularly, the Solimar Fluidizer Plate with Solimar's patented Fluidizer won't tear, clog or pick up moisture which can cause mildew. Solimar Fluidizers will easily last 3X longer than fabric pads.

Air, forced under the patented silicone disks on the plate, provides aeration and gentle vibration that keeps dry bulk materials moving. No matter what material you are handling, from cement to flour, your bulk trailer will perform better with Solimar Fluidizers.



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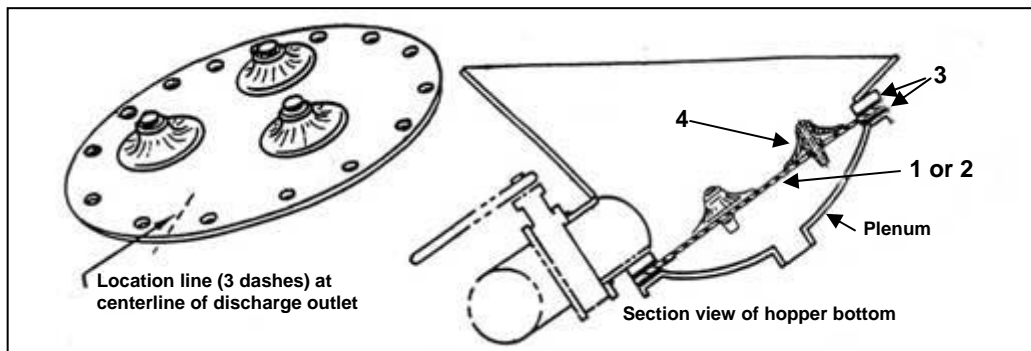
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Fluidizer Plates



Item	Description	Part #
1	20" Stainless Steel Fluidizer Plate. w/ 3 Solimar Fluidizer Disks	5050
2	20" Carbon Steel Fluidizer Plate w/ 3 Solimar Fluidizer Disks	5052
3	Neoprene Gasket 20' O.D.	5012
	13" Stainless Steel Gravity Outlet Plate w/ 1 Solimar Fluidizer Disk	5051
	13" Carbon Steel Gravity Outlet Plate w/ 1 Solimar Fluidizer Disk	5043
	Neoprene Gasket Upper 13" O.D.	5018
	30" Carbon Steel Fluidizer Plate. w/ 7 Solimar Fluidizer Disks	5055
	Neoprene Gasket Upper 30" O.D.– Envelope Style	5019
4	Replacement Solimar Fluidizer Disk	4124
	Replacement Spool, Aluminum	5005
	Replacement Spool, Stainless Steel	5025
	Replacement Spool, Weld-on Aluminum	5035
	Replacement Bolt & Lock-Nut, Stainless Steel, used with Spool	7028 7107

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Hopper Cones

STANDARD HOPPERS FOR NEW AND USED DRY BULK TRAILERS



26" ID / 45° SLOPE

30" ID / 38° SLOPE

ALUMINUM

WELD ON

BOLT ON

Aluminum hopper cones for dry bulk trailer applications. Whether you are looking for bolt-on, or weld on (26"/45° only) applications, Solimar carries a variety of sizes to fit your needs

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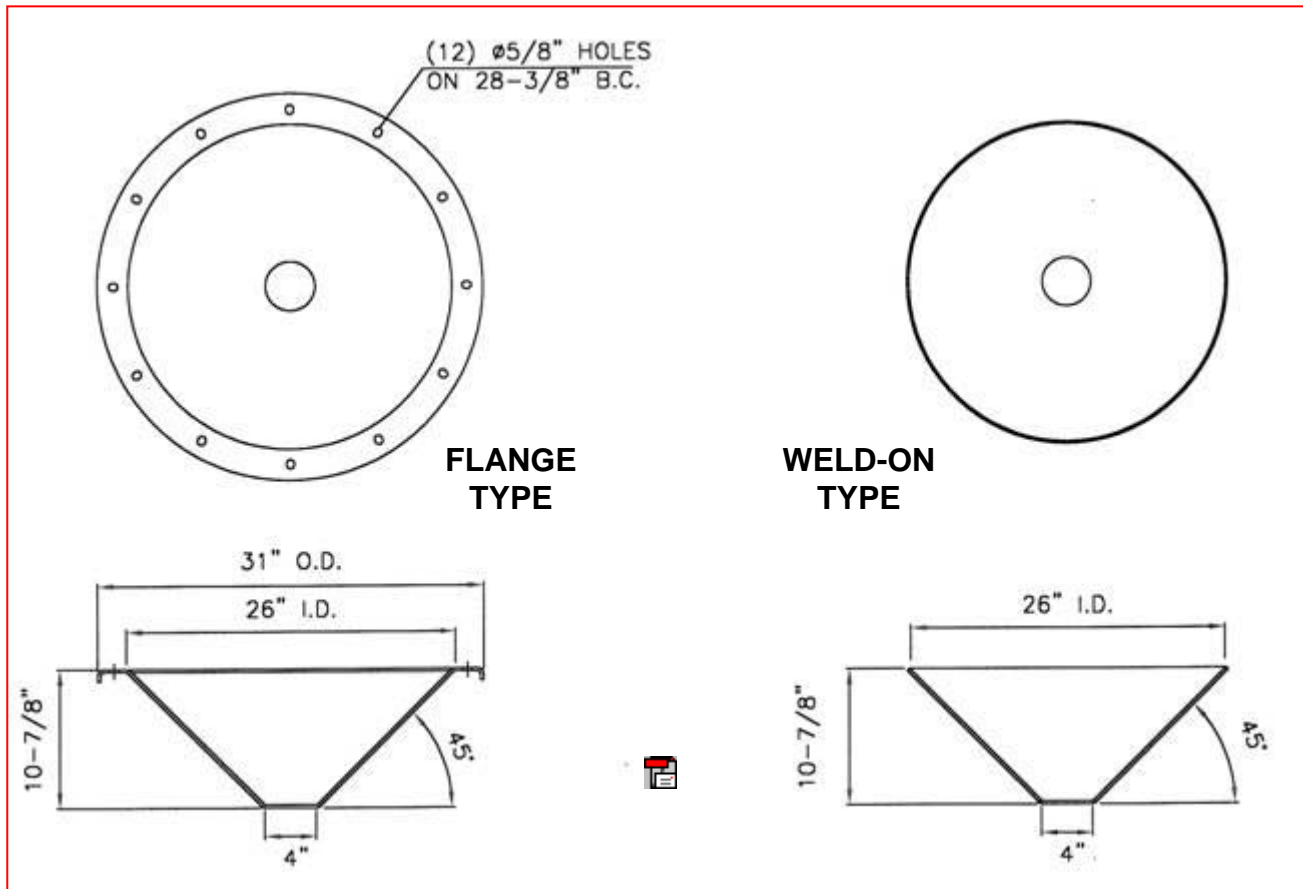
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Hopper Cones



ALSO AVAILABLE IN 30" ID / 38° SLOPE

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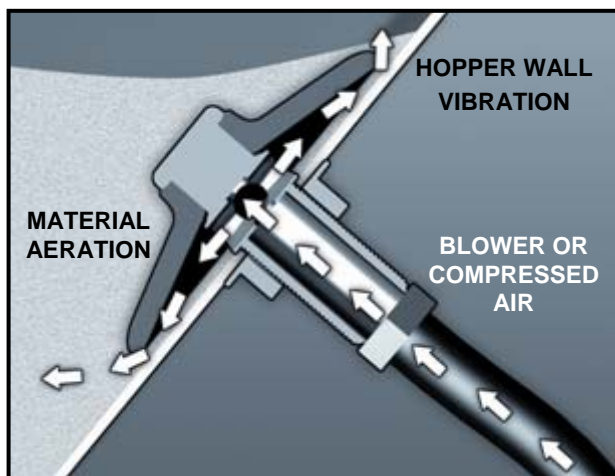
Silo Fluidizer



www.solimarpneumatics.com



Solimar's patented fluidizer is used in over 120 different material applications in 60 countries around the world.



Hopper cutaway showing action of fluidizer in use. Solimar designed fluidizers are perfect for any silo.

Keep Dry Bulk Materials Moving

Solimar Pneumatics offer a family of silo fluidizers that promote the discharge of dry products from storage silos, dust collectors, weigh bins and IBC's. Solimar fluidizers enable a uniform flow of most dry bulk materials through aeration and hopper wall vibration that helps prevent bridging, rat holing and compacting.

Solimar has a long history as a leader in the dry bulk handling industry providing customers high quality products at competitive prices and the very highest level of service.

Why Solimar Silo Fluidizers work where others have failed

Aeration loosens up the product allowing it to flow easier. Minimum back pressure puts air energy where it is needed the most – in the silo.

Directional Air Flow. The fluidizer disk forces air to move along the bin wall freeing up product and assuring good clean-out.

Gentle Vibration keeps the product flowing without allowing it to compact or plug.

No Airline Plugging. Patented disk seals tightly against the silo wall and prevents airline plugging.

Robust Design. The disk will not tear, pick up moisture and is unaffected by temperatures up to 350° F (170° C).

Material Compatible. Silicone rubber standard in blue or white (both food grade/FDA approved), or black or white EPDM.

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Silo Fluidizer – Technical Data

Series 4300: Capacity 10 – 20 CFM @ 20 – 30 PSI (15 – 30m³/h @ 1-2 bar)

Model	Disk	Stem	A	B	C	D	E	Airline Options
4300	Blue	Mild Steel	1/4” NPT	1/2” NPT	7/8” (22mm)	1 3/16” (30mm)	3” (76mm)	3/8”– 1/2” (10 - 13mm) Tubing
4301	White							
4302	Blue	Aluminum						
4303	White							
4304	Blue	Stainless						
4305	White							

Series 4400: Capacity 25 – 40 CFM @ 10 – 20 PSI (40 – 70m³/h @ 0.7-1.5 bar)

Model	Disk	Stem	A	B	C	D	E	Airline Options
4400	Blue	Mild Steel	1/2” NPT or BSTPT	3/4” NPT	1 1/16” (27mm)	1 1/4” (32mm)	3 1/16” (78mm)	1/2”– 3/4” (13 - 19mm) Tubing or Hose
4401	White							
4402	Blue	Aluminum						
4403	White							
4404	Blue	Stainless						
4405	White							

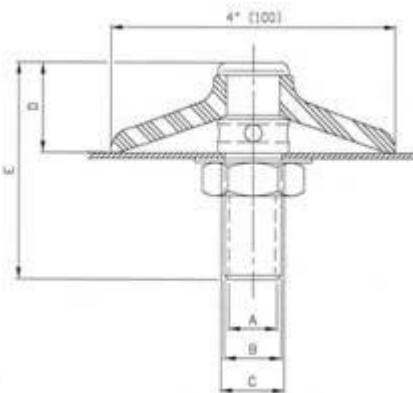
Series 4500: Capacity 30 – 50 CFM @ 5 – 10 PSI (50 – 85m³/h @ 0.3-0.7 bar)

Model	Disk	Stem	A	B	C	D	E	Airline Options
4500	Blue	Mild Steel	3/4” NPT or BSTPT	1” NPT	1 3/8” (35mm)	1 1/4” (32mm)	3 1/4” (83mm)	3/4”– 1” (19 - 25mm) Hose
4501	White							
4502	Blue	Aluminum						
4503	White							
4504	Blue	Stainless						
4505	White							

Versatility. Numerous combinations of stems, fittings and airlines to fit your application. Solimar Fluidizers can be used with high pressure/low volume compressed air or with low pressure/ high volume blower air.

Engineering Assistance. Fax or e-mail a sketch or drawing of your bin, along with a description of your bulk material and we will provide a recommended number and placement of fluidizers for your application the next day.

Easy installation. Fits both conical and square bins, EZ-In (Easy-In) kits also available for installation without getting inside the bin.



1 800 233.7109

Phone: 763 574.1820

Fax 763 574.1822

e-mail: solimar@solimarpne.com

Manhole Cover For Liquid Tanks



www.solimarpneumatics.com

Save Time and Money -- Fast, Easy and Safe Operation



Single Lever Ball Handle Opens and Closes Cover with One Hand

Solimar's 20" Manhole Cover offers simplicity and convenience with a **single operating handle that opens and closes the cover in seconds** with just a few easy turns. There is no struggling with six hold-down clamps, which means less time for the driver on top of the trailer. Solimar's Manhole Cover provides tight, secure seal for liquid tank applications such as oil or asphalt.

For **new equipment or retrofit** to existing tanks. Adaptable to most existing manhole collars.

Lightweight aluminum casting and optimal design configuration made possible by extensive finite element analysis and rigorous testing under extreme conditions.

A **better cover** comparable in cost to existing covers.

Solimar Pneumatics
7256 Commerce Circle
Minneapolis, MN 55432-3109
USA

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Manhole Cover for Liquid Tanks

Design Features.

Single pivoting ball handle quickly opens and closes the cover.

High strength steel bolt is permanently attached to the operating handle.

Special safety washer prevents cover from opening accidentally.

Shipping seal attachment tab requires only one tamper proof seal.

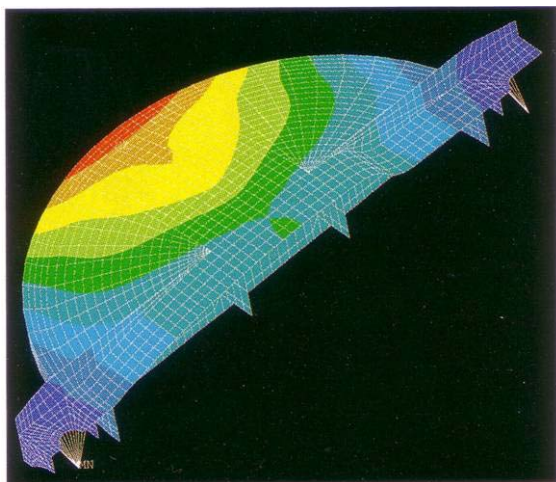
Collars available in steel, aluminum or stainless with no bolts or rivets.

Pivot block parts are identical on both sides – fewer spare parts.

Hinge is easily adjustable for optimum gasket fit.

Self-energizing, self-sealing, extruded / molded gasket is hollow to allow for distortion in collar for leak free operation. Easy to install, remove, clean and replace. Reversible. Available in food grade white.

Lightweight cast aluminum cover has smooth profile. Easy to step on and over. No protruding clamping lugs to trip on.



Finite Element Deflection Chart



Optional Cam Lever Handle

Proven Performance. The Solimar Manhole Cover has been used in thousands of trailers, railcars and storage silos as original equipment by leading manufacturers world-wide as well as for retrofitting existing tanks. The Solimar Manhole Cover is not interchangeable for reliability and durability with any other cover. Accept no substitute, specify Solimar for your manhole cover requirements.



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Swing Away Trailer Bottom



www.solimarpneumatics.com

PNEUMATIC OR GRAVITY UNLOADING – EASY CLEAN OUT



Pneumatic OR Gravity Unloading

Two Way Hauling of Different Products

Easy Clean Out

5" or 6" Unloading Pipes

Rugged Design for Long Service

Bolt On or Weld On

Swing Away Bottoms offer the best in versatility for customers looking for multipurpose use of their bulk trailer. Swing Away Bottoms permit pneumatic or gravity discharge, allow for easy clean out and washing and can be used for two-way hauling of different products

A Tradition of Leadership - Solimar has over 40 years of experience in pneumatic systems and components for dry bulk handling. Solimar provides engineered solutions to the most difficult material flow problems.

Solimar Pneumatics

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Minneapolis, MN 55432-3109
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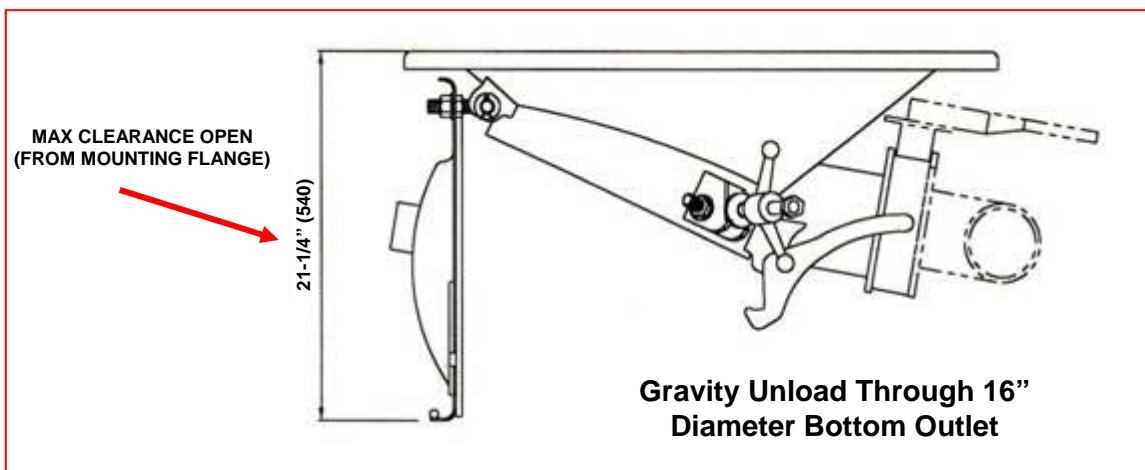
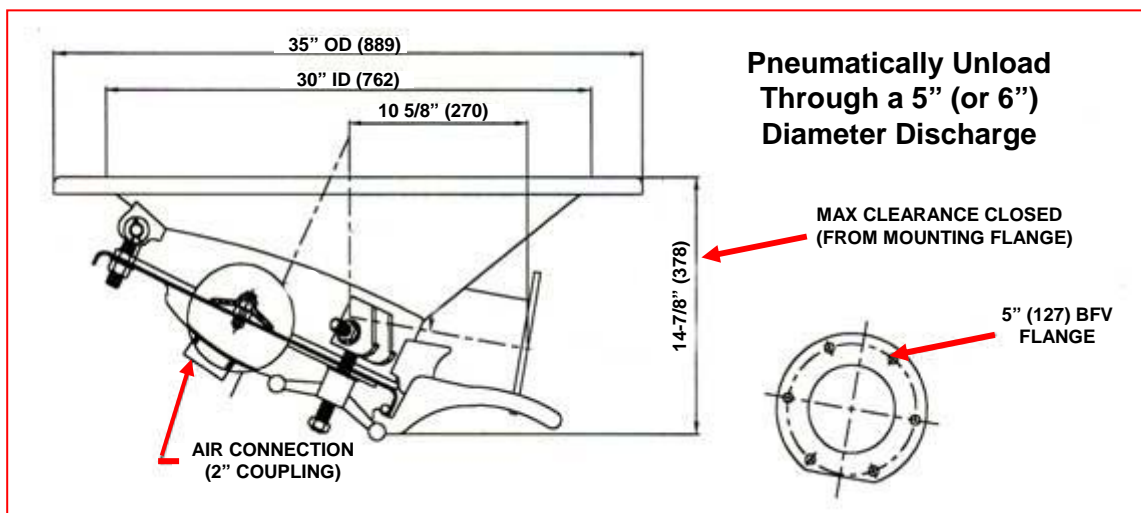
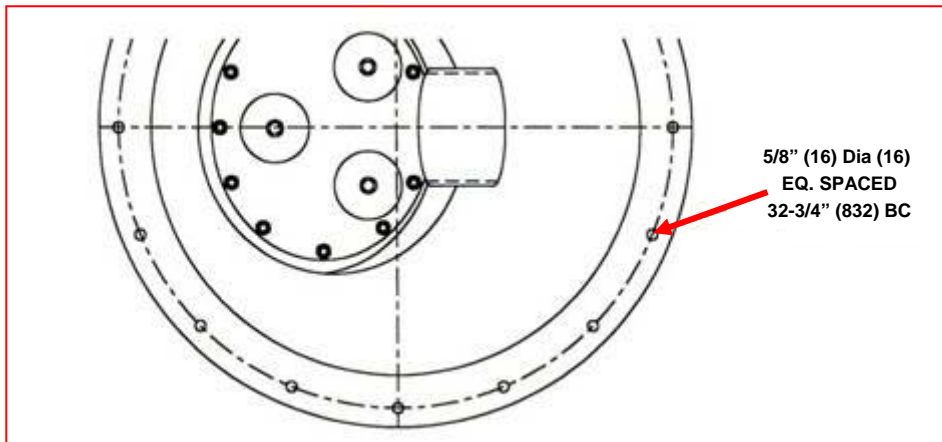
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Swing Away Trailer Bottoms



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WE MOVE A WORLD OF DRY BULK MATERIALS

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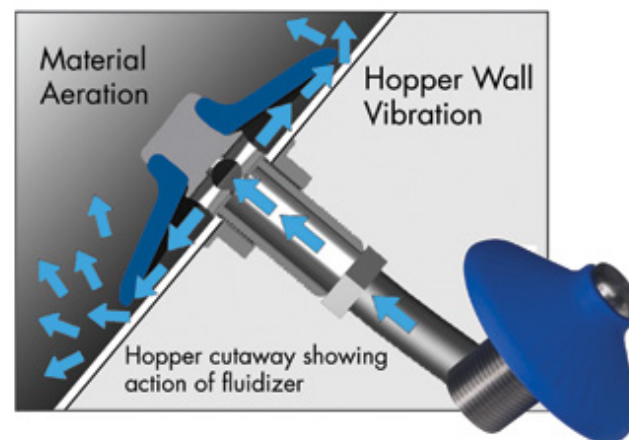
Phone
763-574-1820

Fax
763-574-1822

Advantages

Why Solimar Aeration Systems?

- Superior sealing properties at the outer edge of the aerator rubber stops the back flow of product into aeration lines - even when flood loading.
- Optimized air volume unloads your silo or trailer faster. Too much air moves more air than product.
- Original durable design will not crack, wear prematurely or clog like fabric pads. Carbon, stainless or aluminum models in a variety of sizes provide high volume, low pressure, or low volume, high pressure aeration.
- F.D.A. approved materials with operating temperatures up to 450 ° F (230 ° C).
- Direct replacement with improved performance for Fruehauf, Heil, Polar or Sure Seal aerators.
- Longer warranty than any competitor.
- Thousands of parts always in stock for on-time delivery.

[View Silo Products](#)[View Transportation Products](#)[Your Products](#)

**See Fluidizer Animation
Demonstration:**

[Windows Version](#) | [Mac Version](#)

