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.
Pressure Lock Manhole Cover

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

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 that 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.
Check Valve

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
Check Valve

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.

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.
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.

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.
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.

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 silos, over-the-road truck trailers and lorries and intermodal containers.
Solimar’s Disk Fluidizer System Provides Aeration and Vibration for Fast, Efficient Unloading of Dry Bulk Materials

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.

Retrofitable. 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.
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 your next trailer.

1 800 233.7109
Phone: 763 574.1820
Fax 763 574.1822
e-mail: solimar@solimarpne.com
E-Z In Silo Fluidizer Kits

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.
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

1 800 233.7109
Phone: 763 574.1820
Fax 763 574.1822
e-mail: solimar@solimarpne.com
Easy Out
Hopper Access Door

EASY TO INSTALL – EASY TO USE
TRAILERS, STORAGE SILOS, DUST COLLECTORS AND PROCESS EQUIPMENT

6 “ x 7½”
(152 x 190) MM
Opening

Stainless Steel
Construction

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.

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.
**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.**
Filter Systems

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 ½ ft² of filter area, each, provides a large filtering surface in a compact space.

CLOSE UP OF FILTER COMPONENTS

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Minneapolis, MN 55432-3109
USA

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www.solimarpneumatics.com
Filter Systems

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.

EXTERNAL MOUNT FILTER ASSEMBLIES

<table>
<thead>
<tr>
<th>Model</th>
<th>Canister Diameter</th>
<th>Filter Tube Length</th>
<th>Air Flow (SCFM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6071</td>
<td>20”</td>
<td>36”</td>
<td>600</td>
</tr>
<tr>
<td>6070</td>
<td>24”</td>
<td>36”</td>
<td>900</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Mounting Ring Diameter</th>
<th>Filter Tube Length</th>
<th>Air Flow (SCFM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6054</td>
<td>20”</td>
<td>24”</td>
<td>400</td>
</tr>
<tr>
<td>6055</td>
<td>20”</td>
<td>36”</td>
<td>600</td>
</tr>
<tr>
<td>6056</td>
<td>24”</td>
<td>24”</td>
<td>600</td>
</tr>
<tr>
<td>6057</td>
<td>24”</td>
<td>36”</td>
<td>900</td>
</tr>
</tbody>
</table>

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.
Fluidizer Plates

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.

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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e-mail: solimar@solimarpne.com
**Fluidizer Plates**

![Diagram of Fluidizer Plates](image)

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Part #</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>20” Stainless Steel Fluidizer Plate, w/ 3 Solimar Fluidizer Disks</td>
<td>5050</td>
</tr>
<tr>
<td>2</td>
<td>20” Carbon Steel Fluidizer Plate w/ 3 Solimar Fluidizer Disks</td>
<td>5052</td>
</tr>
<tr>
<td>3</td>
<td>Neoprene Gasket 20’ O.D.</td>
<td>5012</td>
</tr>
<tr>
<td></td>
<td>13” Stainless Steel Gravity Outlet Plate w/ 1 Solimar Fluidizer Disk</td>
<td>5051</td>
</tr>
<tr>
<td></td>
<td>13” Carbon Steel Gravity Outlet Plate w/ 1 Solimar Fluidizer Disk</td>
<td>5043</td>
</tr>
<tr>
<td></td>
<td>Neoprene Gasket Upper 13” O.D.</td>
<td>5018</td>
</tr>
<tr>
<td>4</td>
<td>Replacement Solimar Fluidizer Disk</td>
<td>4124</td>
</tr>
<tr>
<td></td>
<td>Replacement Spool, Aluminum</td>
<td>5005</td>
</tr>
<tr>
<td></td>
<td>Replacement Spool, Stainless Steel</td>
<td>5025</td>
</tr>
<tr>
<td></td>
<td>Replacement Spool, Weld-on Aluminum</td>
<td>5035</td>
</tr>
<tr>
<td></td>
<td>Replacement Bolt &amp; Lock-Nut, Stainless Steel, used with Spool</td>
<td>7028 7107</td>
</tr>
</tbody>
</table>

**Accept No Substitutes** – The Solimar Fluidizer is in a class by itself and is not interchangeable for reliability and durability with any other aerator. Accept no substitute. Specify Solimar aerators.
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.

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.
**Hopper Cones**

**FLANGE TYPE**

(12) $\frac{5}{8}$" HOLES ON 28-3/8" B.C.

**WELD-ON TYPE**

31" O.D. 26" I.D. 10-7/8" 4"

**ALSO AVAILABLE IN 30" ID / 38° SLOPE**

**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.
Silo Fluidizer

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 need 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 with-out 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.

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.
### Silo Fluidizer – Technical Data

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

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

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

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

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Disk</th>
<th>Stem</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>Airline Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>4500</td>
<td>Blue</td>
<td>Mild Steel</td>
<td>3/4” NPT</td>
<td></td>
<td>1” NPT</td>
<td>1 3/8” (35mm)</td>
<td>1 1/4” (32mm)</td>
<td>3 1/4” (83mm)</td>
</tr>
<tr>
<td>4501</td>
<td>White</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4502</td>
<td>Blue</td>
<td>Aluminum</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>4503</td>
<td>White</td>
<td></td>
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<td></td>
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<td></td>
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<tr>
<td>4504</td>
<td>Blue</td>
<td>Stainless</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>4505</td>
<td>White</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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.
Manhole Cover
For Liquid Tanks

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

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**
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Fax 763 574.1822
e-mail: solimar@solimarpne.com
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 hallow 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.

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**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.
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.
Swing Away Trailer Bottoms

Pneumatically Unload Through a 5” (or 6") Diameter Discharge

Gravity Unload Through 16” Diameter Bottom Outlet
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.