

DataSheet

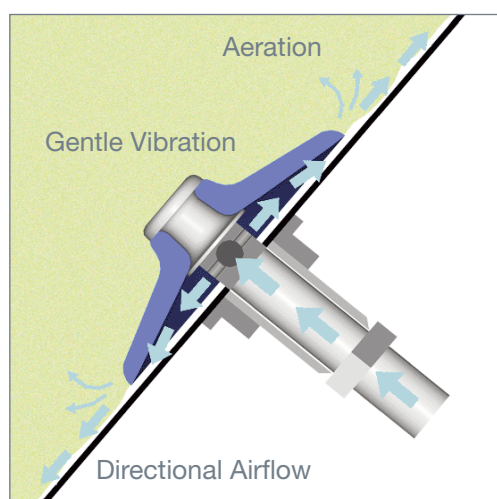
Solimar Aeration Fluidisers



Solimar Fluidisers are widely recognised as the most effective means of solving powder flow problems. The fluidiser principle was first developed by Solimar over 40 years ago and is now accepted as one of the most efficient means of creating the uniform flow of dry bulk materials. A powerful combination of aeration, directional airflow and gentle vibration prevent bridging, ratholing and compacting.

Solimar Fluidisers create twice as much aeration action as many lookalikes. Unique design features produce minimum back pressure and generate unrestricted airflow, enabling us to offer a more efficient and cost effective solution.

Powder flow characteristics and vessel design vary tremendously. That's why we offer the widest combination of disks and stems, including the new Mini Disk for small vessels. Selecting the right fluidiser helps minimise air consumption and energy costs whilst creating faster and more reliable powder discharge. Speak to the specialists for a tailored solution.



More aeration action

Eliminates backflow & airline clogging

Less air, lower running costs

Fewer needed per vessel

FDA food grade blue and white disks

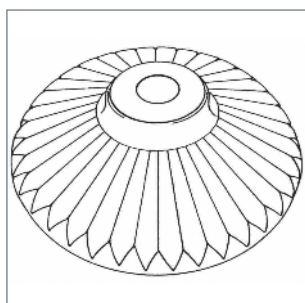
Mini Disk, EPDM, high temp options

Unique Silicone Material



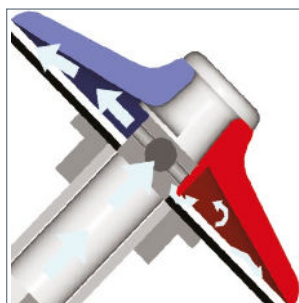
Fluidiser disk will not harden, crack or tear. More durable for longer life.

Radial Ridge design



Insist on genuine Solimar disks with the trademarked radial ridge design.

Unrestricted Air Flow



Up to 130% more effective than designs which cover air distribution ports.

Install From Outside



Easy-In mounting kits allow safer installation and access from outside the silo.



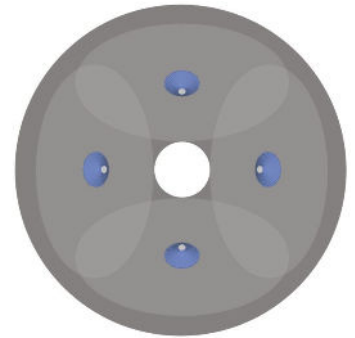
The Solimar Principle

Solimar Fluidisers are used in 66 countries and have proven successful in solving flow problems with over 125 dry bulk materials, using the tried and tested Solimar technique:

Directional Air Flow. Air is forced between chamber wall and product, creating a 360° 'air-sweep', reducing friction and creating an 'avalanche' effect.

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

Gentle Vibration keeps the product flowing, preventing compaction or plugging.



Overlapping air-sweeps make cone live

Technical Data

| 4300 Series: High Pressure / Low Vol. | | | |
|---------------------------------------|----------|------------|------------|
| Model | Stock No | Disk | Stem |
| 4300 | 031180 | Blue | Mild Steel |
| 4300 HT | 034004 | Orange | Mild Steel |
| 4301 | 031181 | White | Mild Steel |
| 4302 | 031182 | Blue | Aluminium |
| 4303 | 031183 | White | Aluminium |
| 4304 | 031184 | Blue | Stainless |
| 4305 | 031185 | White | Stainless |
| 4307 B | 034003 | Black EPDM | Stainless |
| 4307 W | 034005 | White EPDM | Stainless |

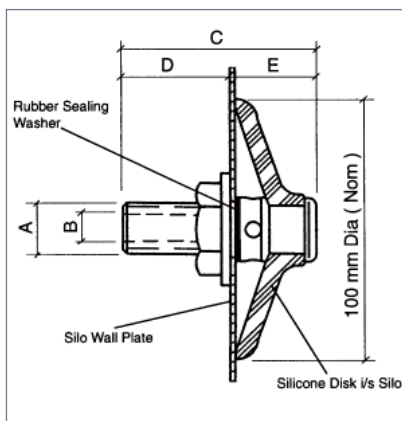
| 4400 Series: High Pressure / High Vol. | | | |
|--|----------|-------|------------|
| Model | Stock No | Disk | Stem |
| 4400 | 031186 | Blue | Mild Steel |
| 4401 | 031187 | White | Mild Steel |
| 4402 | 031188 | Blue | Aluminium |
| 4403 | 031189 | White | Aluminium |
| 4404 | 031190 | Blue | Stainless |
| 4405 | 031191 | White | Stainless |
| 4804: Mini Disk | | | |
| 4804 | 034847 | Blue | Stainless |

| 4500 Series: Low Pressure / High Vol. | | | |
|---------------------------------------|----------|-------|------------|
| Model | Stock No | Disk | Stem |
| 4500 | 031192 | Blue | Mild Steel |
| 4501 | 031193 | White | Mild Steel |
| 4502 | 031194 | Blue | Aluminium |
| 4503 | 031195 | White | Aluminium |
| 4504 | 031196 | Blue | Stainless |
| 4505 | 031197 | White | Stainless |

Standard model blue or white disks - maximum operating temperature 170°C.

Model 4300HT = High Temperature - maximum operating temperature 230°C.

Model 4307B & 4307W = EPDM for specialist applications such as flour handling - maximum operating temperature 120°C.



| A (BSPm) | B (BSPf) | C | D | E | F | Airline Options | Fixing Hole Dia |
|---|-------------|----|----|----|-----|--------------------|--------------------|
| 4300 Series: Capacity 10 - 20 CFM @ 20 - 30 PSI (15 - 30 m³/h @ 1 - 2 bar) | | | | | | | |
| 1/2" | 1/4" | 76 | 38 | 38 | 100 | 10mm - 12mm | 22mm |
| 4400 Series: Capacity 25 - 40 CFM @ 10 - 20 PSI (40 - 70 m³/h @ 0.7 - 1.5 bar) | | | | | | | |
| 3/4" | 1/2" | 76 | 38 | 38 | 100 | 12mm - 19mm | 27mm |
| 4500 Series: Capacity 30 - 50 CFM @ 5 - 10 PSI (50 - 85 m³/h @ 0.3 - 0.7 bar) | | | | | | | |
| 1.00" | 3/4" | 82 | 44 | 38 | 100 | 19mm - 25mm | 35mm |
| 4804 Mini Disk: Capacity 2 - 3 CFM @ 20 - 30 PSI (3.5 - 5 m³/h @ 1 - 2 bar) | | | | | | | |
| N/A | 1/8" | 38 | 24 | 14 | 50 | 6mm | 13mm |

Intermittent operation recommended i.e. 10 secs on 20 secs off.

Visit - www.conspare.com | Call +44 (0)1773 860796 | Email - sales@conspare.com

ConSpare Limited Registered in England No. 10373473
 Castlewood Business Park, Farmwell Lane, Sutton-in-Ashfield, Nottinghamshire. NG17 1BX.
 We reserve the right to modify or withdraw specifications or products without notice or obligation.

