

DataSheet

Solimar Aeration Fluidisers

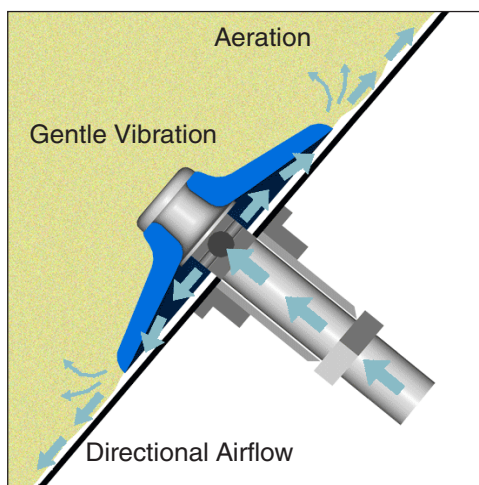
ProSpare



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

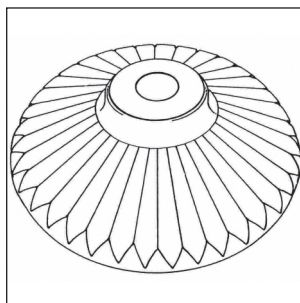
Mini Disk, EPDM, high temp options

Unique Silicone Material



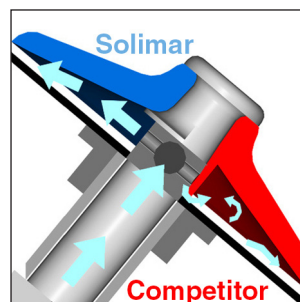
Fluidiser disk will not harden, crack or tear. More durable for longer life.

Radial Ridge Design



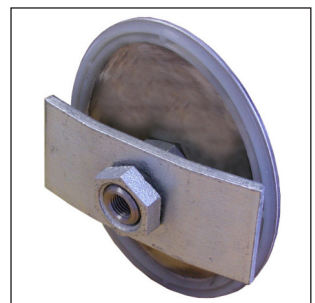
Insist on genuine Solimar disks with the trademarked radial ridge design.

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.

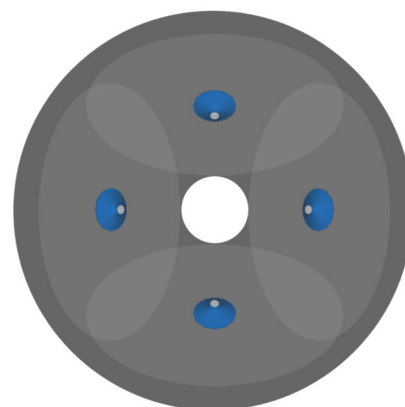
The Solimar Principle

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

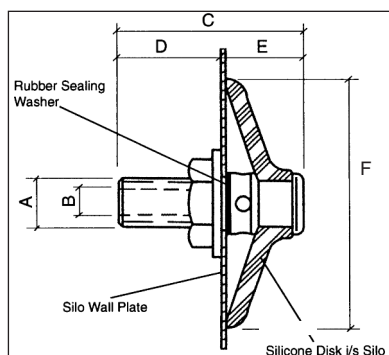
4400 Series: High Pressure / High Vol.			
Model	Stock No	Disk	Stem
4400	031186	Blue	Mild Steel
4401	031187	White	Mild Steel
4402	031188	Blue	Aluminium
4403	031189	White	Aluminium
4404	031190	Blue	Stainless
4405	031191	White	Stainless
4804: Mini Disk			
4804	034847	Blue	Stainless

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.

ProSpare

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