SILO FLOW AIDS FLUIDIZER

Vibro Aerators-VBS- Series

VBS vibratory bowl for help gas flow to improve the bulk material

VBS- Series
Silo Fluidizer

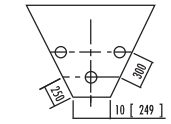
VBS

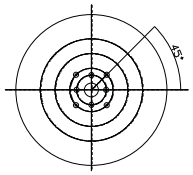
Performance & Technical Features - Benefits

- Air pressure 0.8 to 4 bar
- For powders and granular products
- Food-grade (FDA-approved)

Options & Accessories

- With stainless steel shaft (VBSI)
- For external assembly (VBSE only)
- Miniature execution (VBSM)

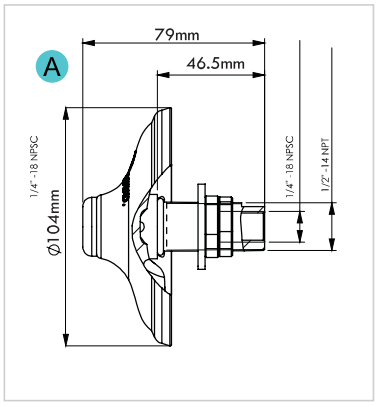


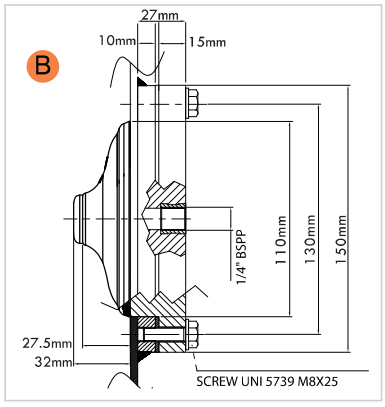


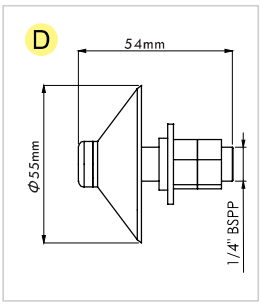
Recommended mounting

How To Order

VBS	M	I	HT	E	4N
Type	Series	Shaft	Rubber material	Installation	Qty
VBS	BLANK= Standard M= Micro Aerator	BLANK= Aluminium I= Stainless steel	BLANK= Standard HT= High Temperature MD= Metal Detectable	BLANK= Standard E= External Mounting	4N: 4 PCS 6N: 6 PCS







Part #	DRAWING	MEMBRANE COLOUR	STEM MATERIAL	Air consumption MAX.						Working temperature		MEMBRANE DIAMETER	
				0.8bar(11.6psi)		2bar(29psi)		4bar(58psi)		℃			
				L/min	cfm	l/min	cfm	l/min	cfm	Min	Max	mm	in
VBS	A	White	Aluminium	600	20	800	28	1150	40	-40	170	104	4
VBSI	A	White	Stainless steel	600	20	800	28	1150	40	-40	170	104	4
VBSIHT	A	Red	Stainless steel	600	20	800	28	1150	40	-40	235	104	4
VBSIMD	A	Blue	Stainless steel	600	20	800	28	1150	40	-40	170	104	4
VBSE	B	White	Nylon	-	-	-	-	1150	40	-40	80	104	4
VBSIE	B	White	Nylon	-	-	-	-	1150	40	-40	80	104	4
VBSM	D	White	Aluminium	100	3.5	150	5	-	-	-40	170	54	2.1
VBSMI	D	White	Stainless steel	100	3.5	150	5	-	-	-40	170	54	2.1
VBSME	C	White	Nylon	100	3.5	150	5	-	-	-40	80	54	2.1
VBSMIHT	D	Red	Stainless steel	100	3.5	150	5	-	-	-40	235	54	2.1
VBSMMD	D	Blue	Stainless steel	100	3.5	150	5	-	-	-40	170	54	2.1

Dimensions in mm

SILO FLOW AIDS FLUIDIZER

Vibro Aerators-VB- Series

VB and VBE vibratory bowl for help gas flow to improve the bulk material

VB- Series
Silo Fluidizer

VB

Performance & Technical Features - Benefits

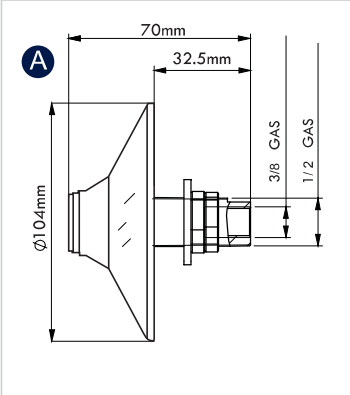
- Air pressure 0.8 to 4 bar
- For powders and granular products
- Food-grade (FDA-approved)

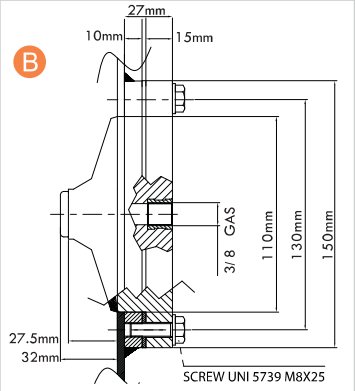
Options & Accessories

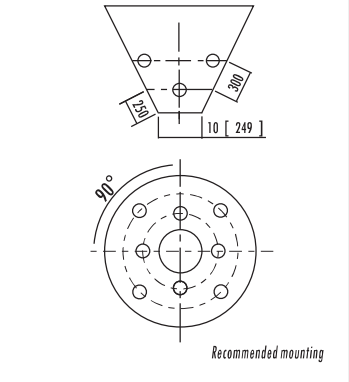
- With stainless steel shaft (VBSI)
- For external assembly (VBSE only)
- Miniature execution (VBSM)

How To Order

VB	I	E	4N
Type	Shaft	Installation	Qty
VB	BLANK:Aluminium I: Stainless steel	BLANK: Standard E:External Mounting	4N: 4PCS 6N: 6PCS







Part #	DRAWING	MEMBRANE COLOUR	STEM MATERIAL	Air consumption MAX.					
				2bar(29psi)		4bar(58psi)		6bar(87psi)	
				L/min	cfm	l/min	cfm	l/min	cfm
DL 15	A	White	Aluminium	500	17	1000	34	1660	57
VB	A	White	Aluminium	500	17	1000	34	1660	57
VBI	A	White	Stainless steel	500	17	1000	34	1660	57
VBE	B	White	Nylon	500	17	1000	34	1660	57
VBIE	B	White	Nylon	500	17	1000	34	1660	57

The work broken arch recommended intermittent operation, such as using open 2-3 seconds, stop for 10-15 seconds, different pressures and under different working intermittently broken arch device will produce different effects of aid flows.

Air consumption:

CFM x number of fluidizers x total on time (seconds)/minute x 1 minute/60 seconds = total CFM required

Dimensions in mm

SILO FLOW AIDS FLUIDIZER

Silo Fluidizer-VB4-Series

43 and 44vibratory bowl for help gas flow to improve the bulk material

VB4-Series
Silo Fluidizer

VB 4

Wide selection of disc styles including food grade silicone/FDA approved (blue or white), high temperature (orange), metal detectable (grey) and EPDM (black or white)

Performance & Technical Features - Benefits

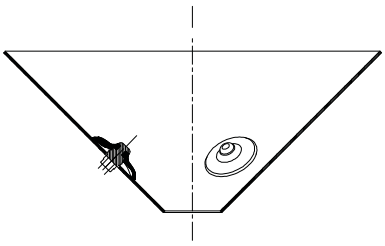
- Sturdy design Self-cleaning Abrasion-resistant Easy to install
- Air pressure 2 to4 bar (29 to 58 PSI)
- Working temperature 43-44 -40° C to 230° C (-40° F to 450° F)
- For powders and granular products Food-grade (FDA-approved)

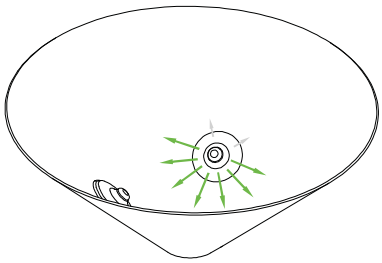
Options & Accessories

- With stainless steel shaft
- For external assembly
- Food grade silicone rubber, high temperature, EPDM rubber

How To Order

VB 4	3	02	HT	4
Type	Thread	Shaft	Disk	Qty
VB 4	3= 1/2" 4= 3/4" 5= 1" 8= 1/4"	00/01: Carbon steel 02/03: Aluminium 04/05: Stainless steel 06: 316Stainless steel	HT:Hi Temp	4N: 4PCS 6N: 6PCS



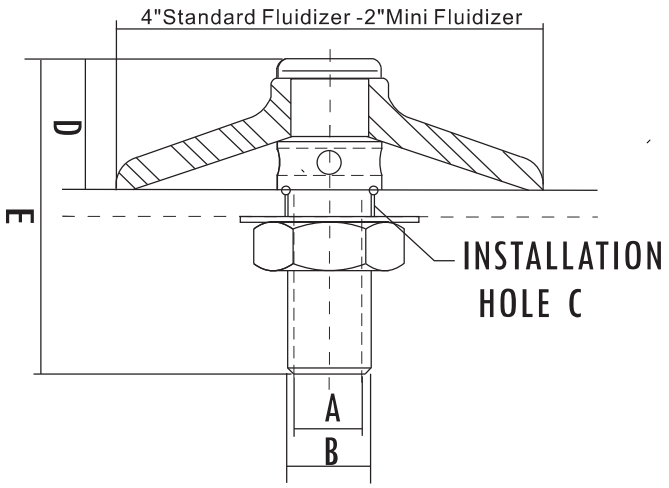


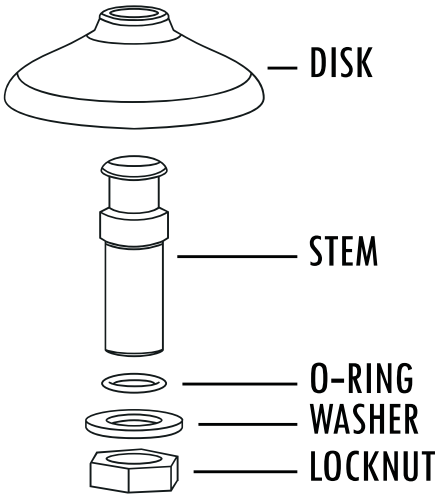
Model	Airflow Requirements
4300	Capacity 15 – 30m³/h @ 1-2 bar (10 – 20 CFM @ 20 – 30 PSI)
4400	Capacity40 – 70m³/h @ 0.7-1.5 bar (25 – 40 CFM @ 10 – 20 PSI)
4500	Capacity 50 – 85m³/h @ 0.3-0.7 bar (30 – 50 CFM @ 5 – 10 PSI)
4800Mini	Capacity 3.5 – 5m³/h @ 1-2 bar (2 – 3 CFM @ 20 – 30 PSI)

Dimensions in mm

SILO FLOW AIDS FLUIDIZER

Silo Fluidizer-VB4-Series





Part #	Stem Material	Disk Color	Disk Material	A	B	C	D	E	Airline Options
VB 4300	Steel	Blue	Silicone	1/4" PT	½" PT	(22mm)	(30mm)	(76mm)	(10-12mm) Tubing
VB 4300HT		Orange							
VB 4301		White							
VB 4302	Aluminum	Blue							
VB 4303		White							
VB 4304	Stainless Steel	Blue							
VB 4305		White							
VB 4305HT	Stainless Steel	Orange							
VB 4306		White							
VB 4400	Steel	Blue	Silicone	½" PT	3/4" PT	(27mm)	(32mm)	(78mm)	(13-19mm) Tubing or Hose
VB 4401		White							
VB 4402	Aluminum	Blue							
VB 4403		White							
VB 4404	Stainless Steel	Blue							
VB 4405		White							
VB 4405HT		Orange							
VB 4500	Steel	Blue	Silicone	3/4" PT	1" PT	(34mm)	(32mm)	(83mm)	(19-25mm) Tubing or Hose
VB 4501		White							
VB 4502	Aluminum	Blue							
VB 4503		White							
VB 4504	Stainless Steel	Blue							
VB 4505		White							
VB 4505HT		Orange							
VB 4804	Stainless Steel	Blue	Silicone	NA	1/4" PT	(13mm)	(14mm)	(38mm)	(6mm) Tubing
VB 4805		White							

Dimensions in mm

FAST-FIT KIT

Fast-fit kit

For OEMs or retrofits, here is a NEW tool to incorporate the family of Akmk Fluidizers into your silo, bin or hopper while remaining outside the vessel. requires a minimal opening and works with nearly every application – even those with a tight radius. The kit is complete with everything needed for superior aeration – just add air.

Fast-fit kit

Kit components

Installed Fast-Fit Kit

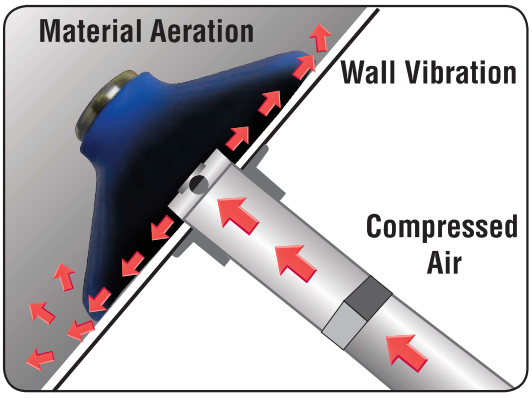
Installs Easily From The Outside

For use with Series 4300 and Mini Fluidizers

Design Features

- Used with Akmk's proprietary Silo Fluidizer that will not plug, harden or crack.
- Minimally invasive – requires 2-inch diameter hole
- Provides tight seal with no material or air leaks
- Works with silos, bins and hoppers that have a tight radius
- Use with flat or conical hoppers
- Standard stainless steel alignment plate for food grade applications
- Designed to work with AKMK Fluidizers used with over 120 different material types in 75 countries around the world.

Material Compatible.- Silicone rubber in blue or white (FDA approved) or black or white EPDM - Temperatures to 450°F (230° C).



Hopper cutaway shows Fluidizer in use.

Dimensions in mm

INSTALLATION INSTRUCTIONS

Fluidizer fast-fit kit

1. Drill a 2" (50mm) hole at the Fluidizer mounting location.
   Mini Fluidizer - Drill a 1 1/8" (29 mm) hole in the fluidizer mounting location.

2. De-burr the inside and outside of hole.

3. Thread the Fluidizer (4300 Series) onto the retaining cable or long 1/4 "
   PT pipe stub and tighten to finger tightness only.

4. Fold and Insert the Fluidizer Disk into the installation hole.

5. Install Fast-Fit alignment plate onto the retaining cable (or pipe) and into the bin with the shoulder positioned outward. Center the alignment plate in the mounting hole, aligning it in the vertical position with the arrow pointing upwards.

6. While continuing to hold retaining cable, slide the Fast-Fit sealing washer and the Fluidizer washer over the retaining cable and onto the stem. Next slide the nut over the retaining cable and thread it onto the stem.

7. Tighten to the specified fluidizer torque of 25 ft.lbs (35 Nm) and remove the retaining cable.

Dimensions in mm