

# FLOW AIDS



THE WORLDWIDE LEADER IN VIBRATION TECHNOLOGY



# INTERNAL APPLICATION

# AERATORS

## PRODUCT SERIES

### BIN AERATORS VB



## APPLICATIONS

Silos  
Hoppers  
Pipes  
Dry bulk tank trailers  
Dry bulk rail tankers

## POWDERS

**Dry, fine powders.**  
Cement  
Lime  
Pigments  
Plastics  
Starch  
Flour  
Sugar  
Coffee

## FEATURES

Compatible with foods and chemicals.

## BENEFITS

Economical  
Easy to install  
Efficient  
Durable  
Available in two sizes (MICRO or standard)  
External mounting

### AERATION PADS I100



Silos  
Hoppers

**Dry, fine powders.**  
Suitable for cement, lime

Low air consumption (0.2 bar pressure).  
Create fluid bed.

Economical  
Easy to install  
External mounting kit

### AERATION NOZZLES U



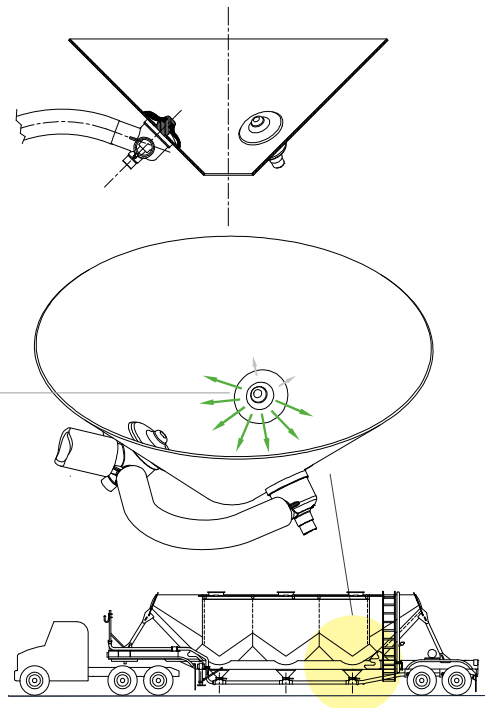
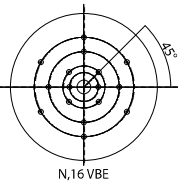
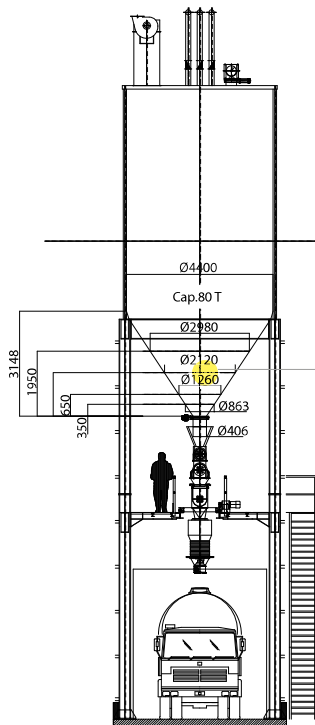
Silos  
Hoppers

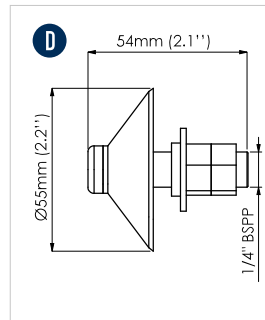
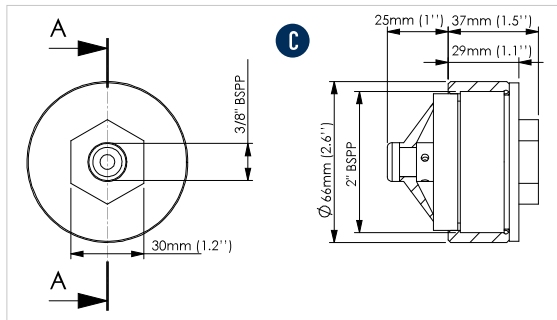
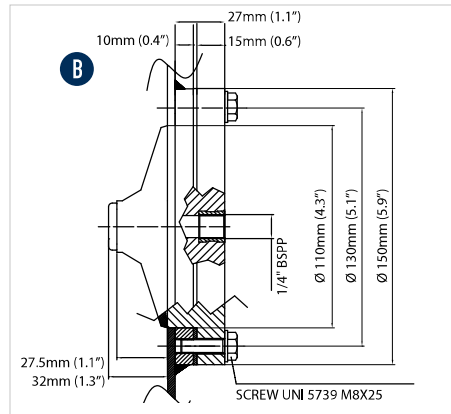
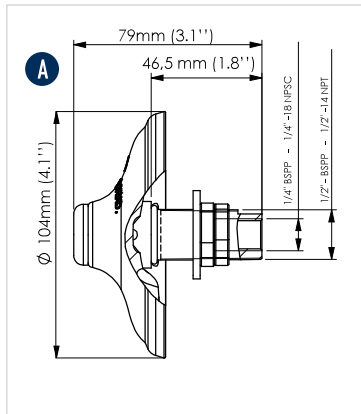
**Dry, fine powders.**  
Suitable for cement, lime

Low air consumption (0.2-1 bar pressure).  
Create fluid bed.

Economical  
Easy to install  
Compact design  
Suitable for retrofitting  
External mounting

## APPLICATIONS





MODEL	DRAWING	MEMBRANE COLOUR	STEM MATERIAL	AIR CONSUMPTION								WORKING TEMPERATURE			
				0.8 bar (11.6 psi)		2 bar (29 psi)		4 bar (58 psi)		6 bar (87 psi)		°C		°F	
				l/min*	Cfm	l/min*	Cfm	l/min*	Cfm	l/min*	Cfm	Min.	Max.	Min.	Max.
VBS	A	White	Aluminium	600	21.1	800	28.2	950	33.5	1150	40.6	-40	170	-40	338
VBSI	A	White	Stainless steel	600	21.1	800	28.2	950	33.5	1150	40.6	-40	170	-40	338
VBSIHT	A	Red	Stainless steel	600	21.1	800	28.2	950	33.5	1150	40.6	-40	235	-40	455
VBSIMD	A	Blue	Stainless steel	600	21.1	800	28.2	950	33.5	1150	40.6	-40	170	-40	338
VBE	B	White	Nylon	-	-	100	3.53	150	5.29	250	8.82	-40	80	-40	176
VBSME	C	White	Nylon	130	4.6	150	5.3	-	-	-	-	-40	80	-40	176
VBSM	D	White	Aluminium	150	5.3	200	7.1	-	-	-	-	-40	170	-40	338
VBSMI	D	White	Stainless steel	150	5.3	200	7.1	-	-	-	-	-40	170	-40	338
VBSMIHT	D	Red	Stainless steel	150	5.3	200	7.1	-	-	-	-	-40	235	-40	455
VBSMIMD	D	Blue	Stainless steel	150	5.3	200	7.1	-	-	-	-	-40	170	-40	338

\* Indicates in *l/min* the total air consumption normalized at the rated pressure.

## VBS - BIN AERATORS

APPLICATION	Silos, hoppers, pipes
POWDER	Dry, fine, granular
PROBLEM SOLVING	Bridge and rat-holing

## FEATURES

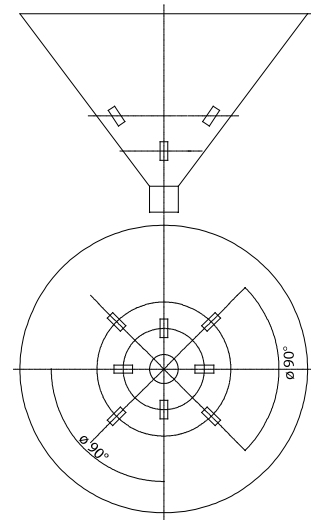
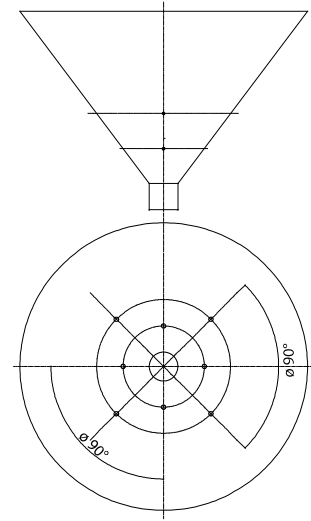
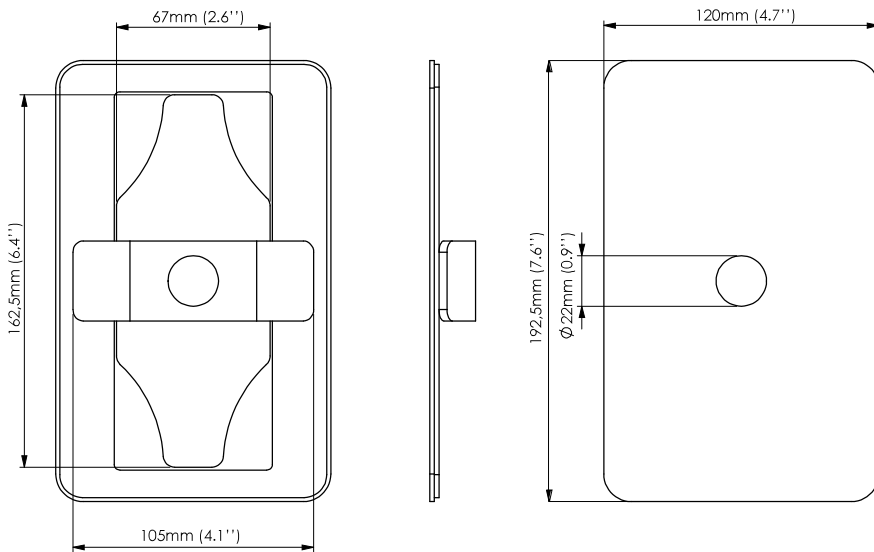
DUTY CYCLE	Continuous or discontinuous
WORKING PRESSURE	From 0.8 bar to 6 bar (from 12 psi to 87 psi) - Suggested: 4 bar (58 psi) VBSMicro: from 0.8 bar to 2 bar (from 12 psi to 29 psi)
PNEUMATIC CIRCUIT	Filter + flow control valve
AIR SUPPLY QUALITY	Non-Lubricated (Class. 5.4.1)
TECHNOLOGY	Vibro-Aerator
MATERIAL	Silicone membrane [food grade] - FDA 177.2600 Aluminium / stainless steel stem [Food & Pharmaceutical grade] Nylon body with steel ring [VBSE]

## OPTIONS

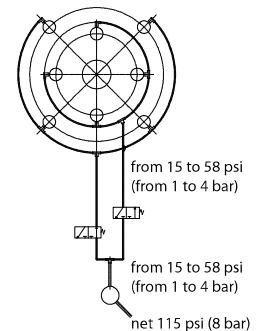
EXTERNAL MOUNTING KIT	Stainless steel rectangular plate and fitting bracket
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**\* THE VBS IS NOT INCLUDED IN THE EXTERNAL MOUNTING KIT**

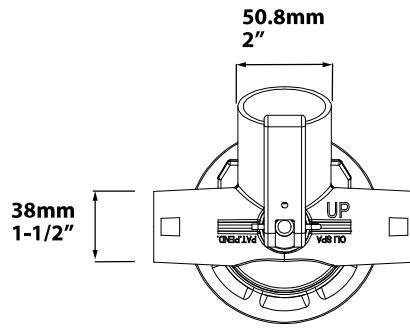
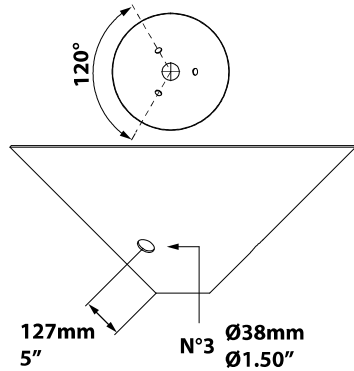


### FLUIDIZER PNEUMATIC CIRCUITS

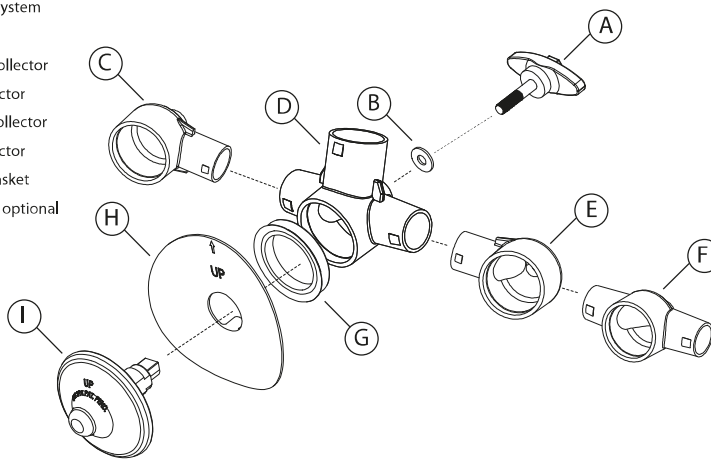


### EXTERNAL MOUNTING KIT

PROBLEM SOLVING	Allows the installation on silos that are difficult to reach from the inside
MATERIAL	Stainless steel rectangular plate
SIZE	120 x 192.5 mm [4.72" x 7.58"]
CUT OUT SIZE	67 x 162.5 mm [2.64" x 6.40"]



- (A) T-handle lock system
- (B) Gasket
- (C) RH 1-Way air collector
- (D) 3-Way air collector
- (E) LH 1-Way air collector
- (F) 2-Way air collector
- (G) Air collector gasket
- (H) Hopper saver - optional
- (I) Membrane



## VBT SERIES

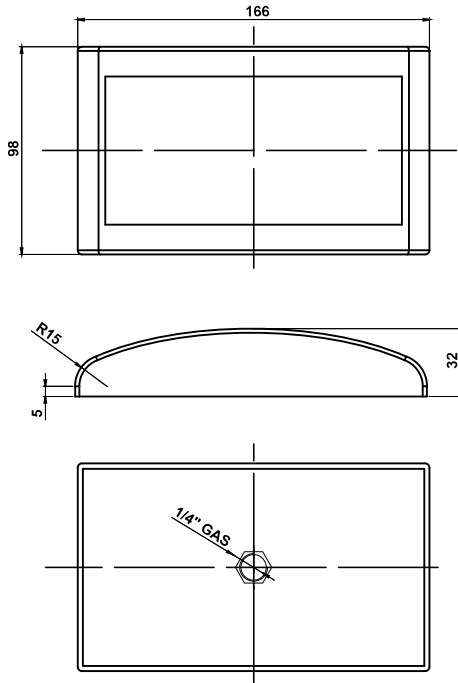
APPLICATION	Dry bulk tank trailer, rail tanker
POWDER	Dry, fine, granular
PROBLEM SOLVING	Bridging and rat-holing

## FEATURES

DUTY CYCLE	Continuous (suitable to be used with blower)
WORKING PRESSURE	From 0.7 bar to 2 bar (from 10 psi to 29 psi)
PNEUMATIC CIRCUIT	Suitable standard pneumatic bulk trailer, works with all standard designs
WORKING TEMPERATURE	From -40 °C to 170 °C (from -40 °F to 340 °F)
TECHNOLOGY	Vibro-aeration
MATERIAL	Blue silicone membrane: metal detectable, comply with FDA 177.2600 Stem - Black polyarylamide glass-fiber reinforced comply with 10/2011/EC - FDA - UL94 Manifold - Black polyarylamide glass-fiber reinforced comply with 10/2011/EC - FDA - UL94 Manifold - Transparent material comply with ISO 10993 - FDA 21 CFR 177.1655 - NSF 51 - UL94 Lever and T-handle - Black polyarylamide glass-fiber reinforced / Stainless steel thread shaft Silicone gasket

## OPTIONS

HOPPER SAVER PLATE	Stainless steel
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MODEL	AIR CONSUMPTION	
	0.2 bar (2.9 psi)	
	l/min*	cfm
I100	2	0.07

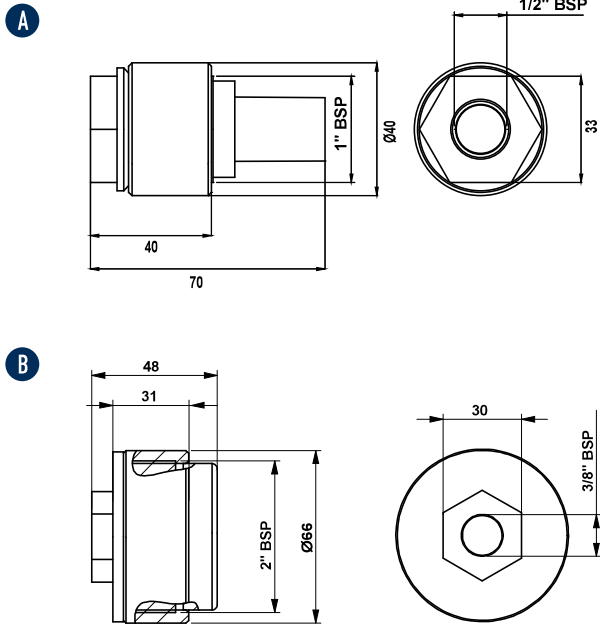
\* Indicates in l/min the total air consumption normalized at the rated pressure.

## I100 - AERATION PADS

APPLICATION	Hopper and silo
POWDER	Fine and dust (cement and lime)
PROBLEM SOLVING	Bridge and rat-holing

## FEATURES

DUTY CYCLE	Continuous
WORKING PRESSURE	0.2 bar (2.9 psi)
PNEUMATIC CIRCUIT	Filter + flow control valve
AIR SUPPLY QUALITY	Class 5.4.1.
WORKING TEMPERATURE	From -20 °C to 80 °C (from -4 °F to 176 °F)
TECHNOLOGY	Fluidification
MATERIAL	Sintered PET filter, PS body



MODEL	DRAWINGS	AIR CONSUMPTION			
		0.2 bar (2.9 psi)		1 bar (14 psi)	
		l/min*	Cfm	l/min*	Cfm
U025	A	0.83	0.03	-	-
U060	B	-	-	30	1.1

\* With l/min we indicate NI/min so the air consumption normalized at the rated pressure.

U060 have been tested up to 3 bar in our R&D Dept. showing an air consumption of 120 l/m at 3 bar. Based on application and working condition a lower pressure is always preferable.

## U - AERATION NOZZLES

APPLICATION	Hopper and silo - piping
POWDER	Fine and dust (cement and lime)
PROBLEM SOLVING	Bridge and rat-holing

## FEATURES

DUTY CYCLE	Continuous
WORKING PRESSURE	From 0.2 bar to 1 bar (from 2.9 psi to 14 psi)
PNEUMATIC CIRCUIT	Filter + flow control valve
AIR SUPPLY QUALITY	Class 5.4.1
WORKING TEMPERATURE	From -20 °C to 80 °C (from -4 °F to 176 °F)
TECHNOLOGY	Fluidification
MATERIAL	U060 - ring carbon steel, sintered PE filter, Nylon (UV resistant) body U025 - ring carbon steel, sintered brass filter, Nylon (UV resistant) body