



MBA SiloFlo

Aerator for fluidization of bulk material

Approved principle:

Silo-Flo aerators are used for the fluidization of fine grained bulk and powder. This enhances the dischargability by blowing air in the bin at a small positive pressure (0.2 bar). The air is spread evenly, and loosens the material making it fluid around the aerator. The material will then discharge without any

Depending of the length of the funnel wall, it is necessary to have one or more aerators in each row. The recommended distance between each mounting hole is approx. 30 to 40 cm for the smaller SF1 and approx. 50 to 60 cm for the larger SF2. For getting a good result, there should be at least four rows crosswise mounted in the discharge cone.

Technical Data

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Model	SF1	
Dimension	190 x 95 x 13 mm	305 x 152 x 18 mm
Connection	1/8" NPT thread, 45 mm long	1/4" NPT thread, 45 mm long
Pressure	0.2 bar (recommended), max. 1 bar	0.2 bar (recommended), max. 1 bar
Air consumption at 0.2 bar	13.8 m³/h	26.9 m³/h
Temperature	cotton up to 80°C / fiberglass up to 300°C	cotton up to 80°C / fiberglass up to 300°C
Weight	350 g	800 g
Frame material	galvanized or stainless steel	galvanized stainless steel
Material of diffuser	cotton or fiberglass	cotton or fiberglass

Air supply:

A continual air supply must be insured at all times in order to guarantee the function of the aerator.

Warning: If there is no air supply, the aerator can become blocked with material. That will damage the aerator.

This chart shows the air consumption depending on the pressure

Air consumption m ³ per hour		
Pressure / bar	SF1	SF2
0,1	10,6	19,3
0,2	13,8	26,9
0,3	15,7	33,0
0,4	17,4	38,8
0,5	18,9	44,7
0,6	20,3	50,4
0,7	21,6	56,1
0,8	23,1	61,8
0,9	24,6	67,6
1,0	25,8	74,3

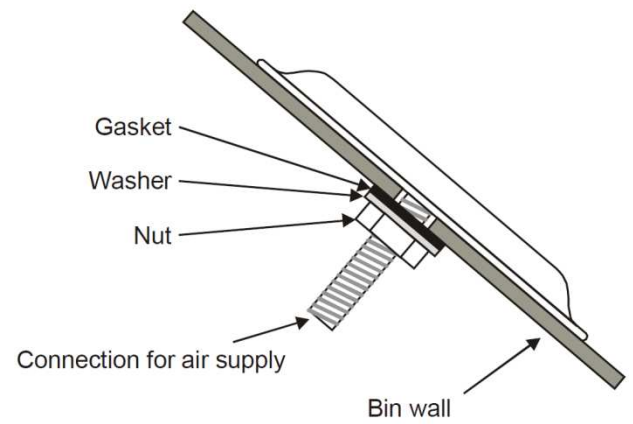
Pipeline for air supply:

For the aerators air supply must be connected to a pipeline, which is able to supply the desired volume of air. The chart is showing the minimum diameter of the main pipeline:

Diameter of the pipeline in mm		
Pieces	SF1	SF2
1 – 5	19	25
6 - 8	25	32
9 - 11	32	38

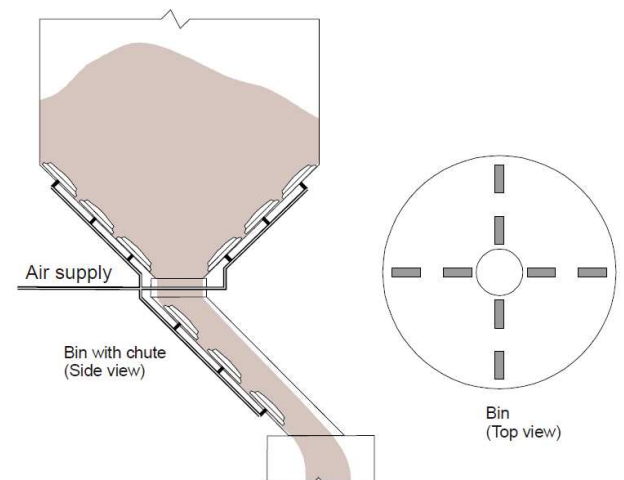
Mounting:

Drill a hole in the bin 11 mm for Model SF1



and 14.5 mm for Model SF2.

Application example:



Part number		Body	Mesh	Diffuser
SF1	SF2			
1040327	1040329	Zinc plated steel	Galvanized steel	Cotton
1029570	1040330	Zinc plated steel	Galvanized steel	Fiberglass
1029360	1040331	Stainless steel	Stainless steel	Cotton
1040328	1040332	Stainless steel	Stainless steel	Fiberglass