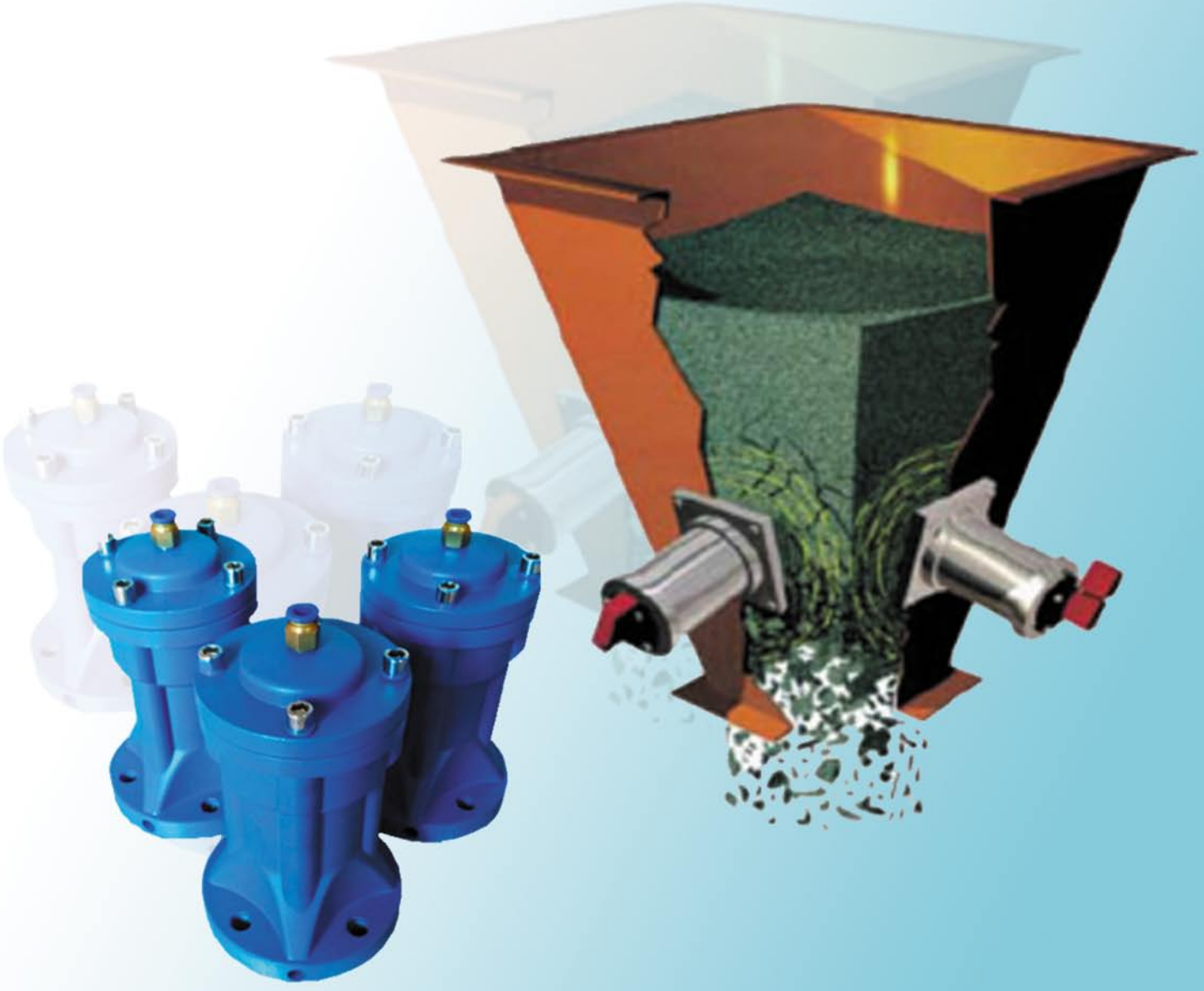
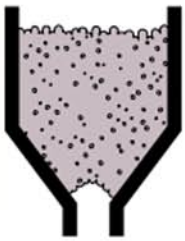
SK
Air Knocker



SK Air Knocker

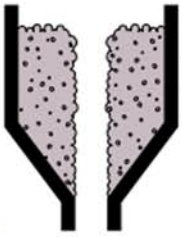
TROUBLE PHENOMENON

BRIDGING



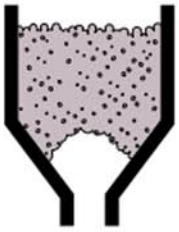
Bridging Occurs when materials cling to the wall or compact above the discharge opening of the lower part in the hopper, and the flow of materials in the upper part is interrupted.

RATHOLING



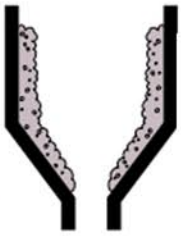
Ratholing occurs when materials flow only above the exit, and form a tube that leaves the hopper filled with "dead" materials which will not move.

ARCHING



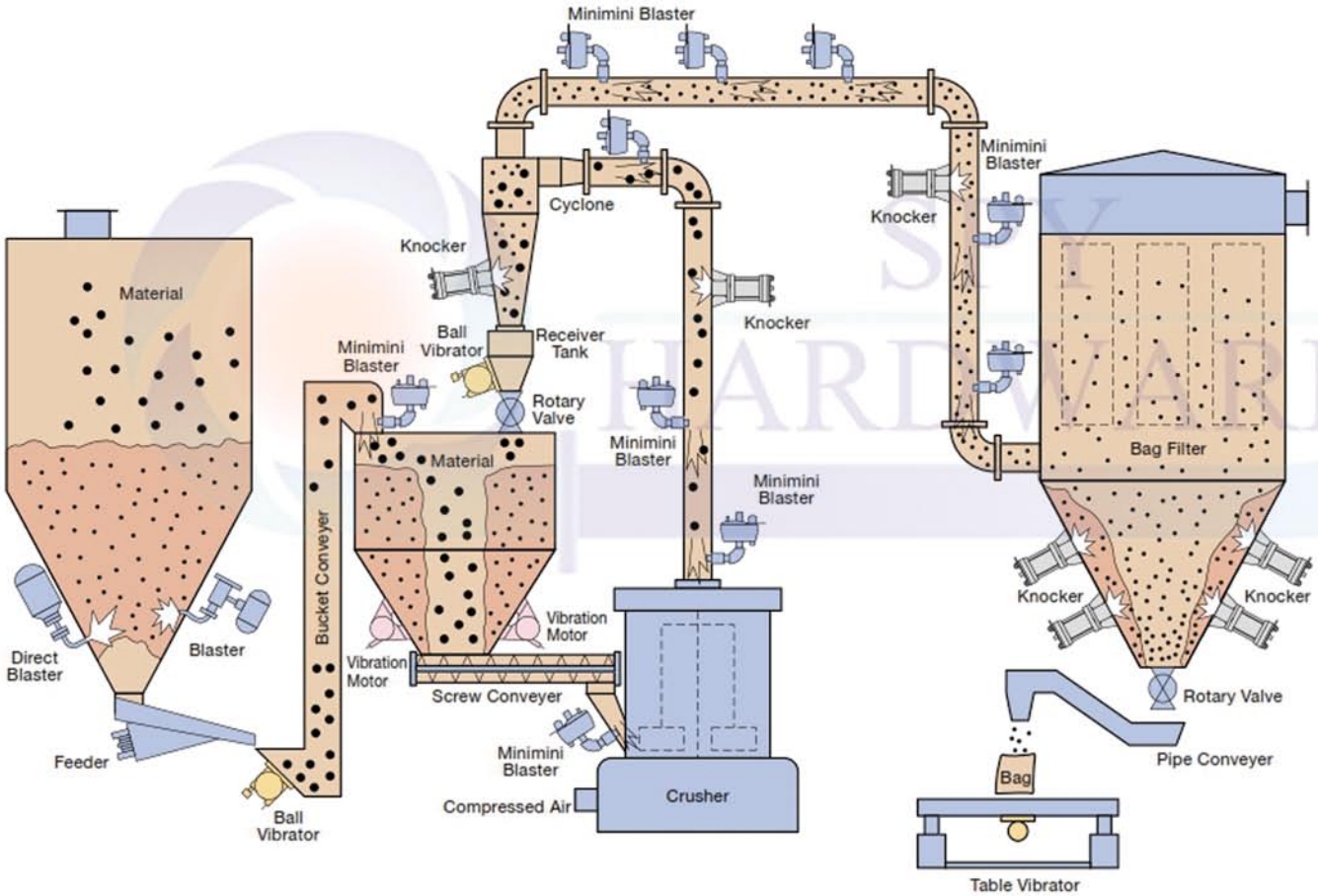
Ratholing occurs when materials flow only above the exit, and form a tube that leaves the hopper filled with "dead" materials which will not move.

ADHERENCE TO WALL



Clinging materials and also materials easily influenced by the moisture and the temperature adhere to the wall and refuse to flow.

EXAMPLE OF TYPICAL FLOW AID SYSTEM INSTALLATION



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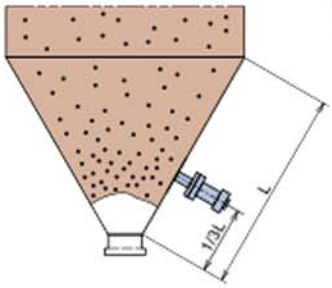
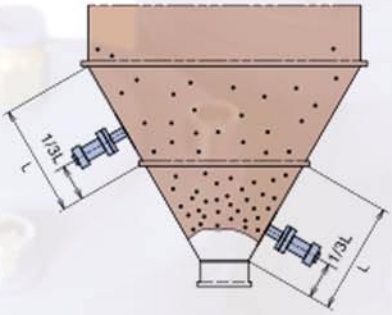
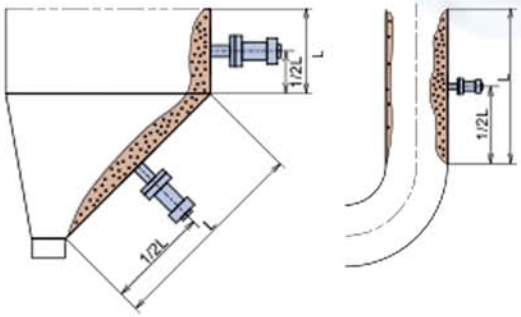
INSTALLING POSITION



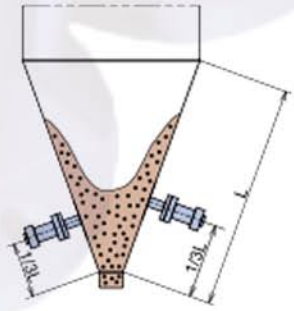
For small cone, pyramid hopper.



For large cone, pyramid hopper.



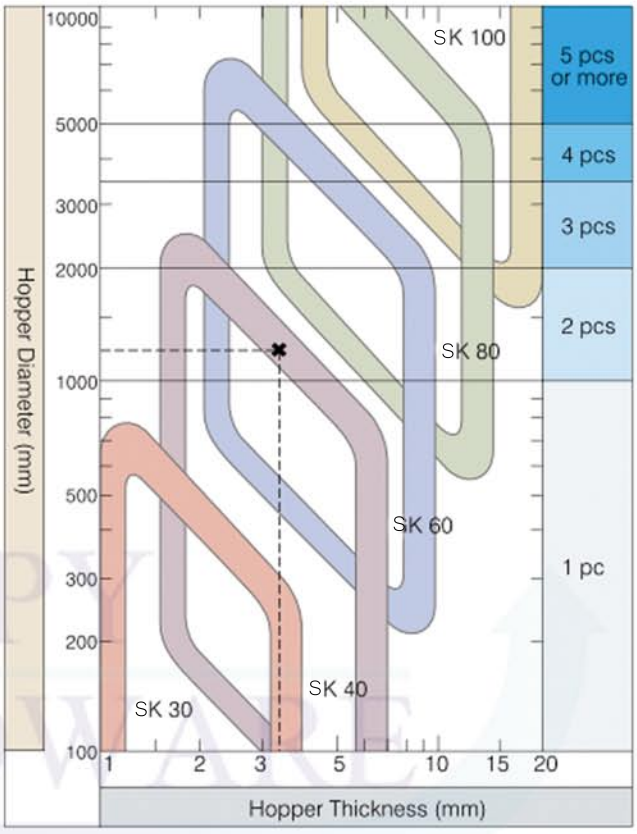
In case of clinging on the surface of wall and the inside pipe.



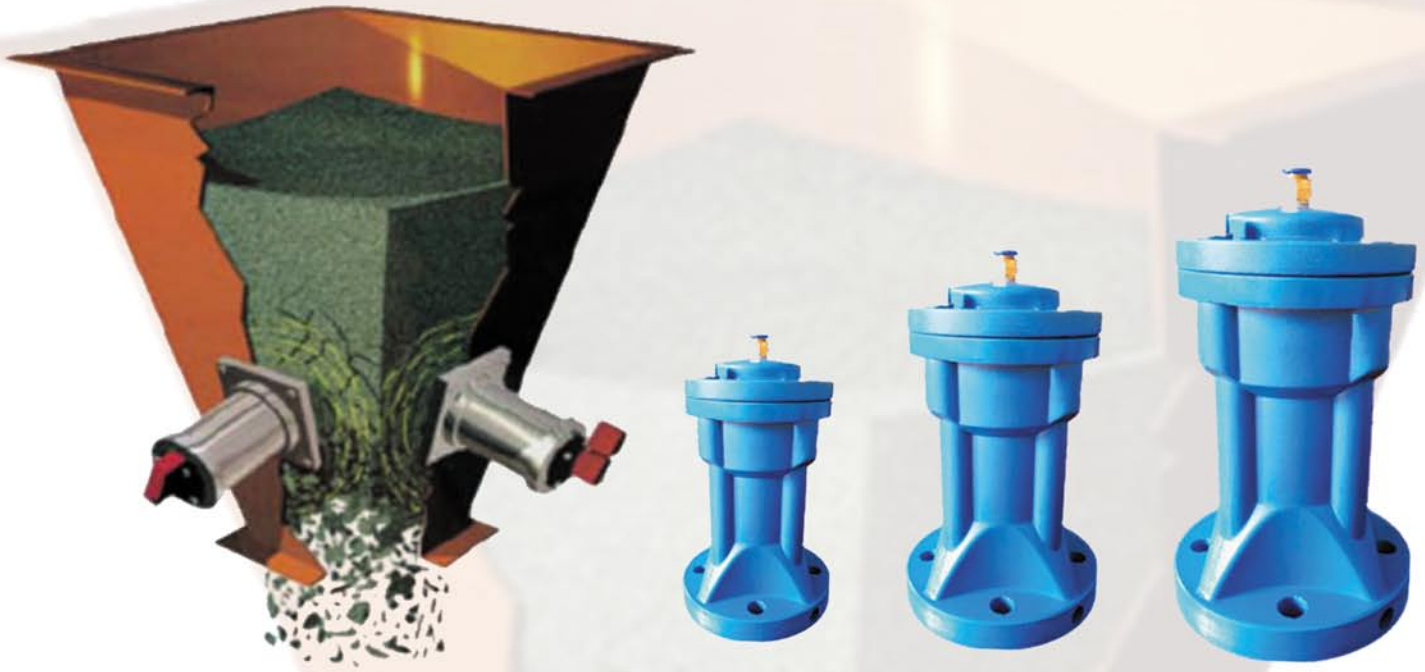
In case of bad fluid materials.

MODEL SELECTION GUIDE

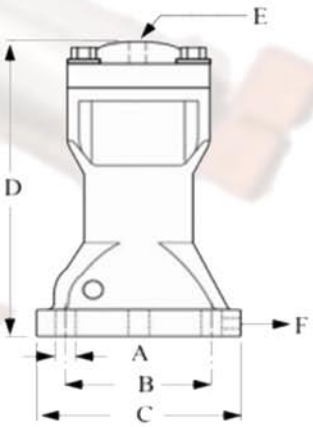
The model and the quantity having the optimum impact force are selected according to the type, the shape, the size, and clinging and blocking condition in silo, hopper etc. For instance, when installing on the conical hopper of 1,200mm. dia. 3.2mm. thick, find the point of intersection X according to the figure below. As the point X is within the range of SK40 2pcs, and SK60 2 pcs, Select SK40 2pcs, for small clinging strength, and SK60 2 pcs, for large clinging strength.



SK Air Knocker



Pneumatic knocker could be used for bulk material release if the bulk material was adhesed on walls of tubes or filling hopper. Compared to the vibrator, the air knocker can be used for materials which solidify by intensive shedding; in this case individual shakes are well-proven



Operation condition: Working pressure 6 bar (3-7 bar)
Maximum 15 cycles per minute Ambient Temp.-20 °C to + 70 °C

TECHNICAL DATA

Model	Pressure [bar]	Air Cons. [NL/time]	Energy [J] [Nm]	[kp.m]
SK 30	3 - 7	0.28	7.4	0.75
SK 40	3 - 7	0.82	22	2.2
SK 60	3 - 7	2.28	73	7.4
SK 80	4 - 5	4.55	161	16.4

1 Joule = 1 Nm = 0.102 kp.m (kilopond meter)

MOUNTING DIMENSIONS

A ø Hole x No.	B P.C.D.	C ø	D Height	E Inlet	F Outlet	Weight [kg]
ø 9 x 4	67	82	135	1/4"	1/8"	1.1
ø 11 x 4	77	98	175	1/4"	1/8"	3.0
ø 12.5 x 4	110	143	220	1/4"	1/4"	7.8
ø 17 x 4	140	170	275	3/8"	3/8"	16.5

Technical data changes reserved