

PNEUMATIC DISCHARGE DEVICE AIR CUSHION LOOSENING SYSTEM

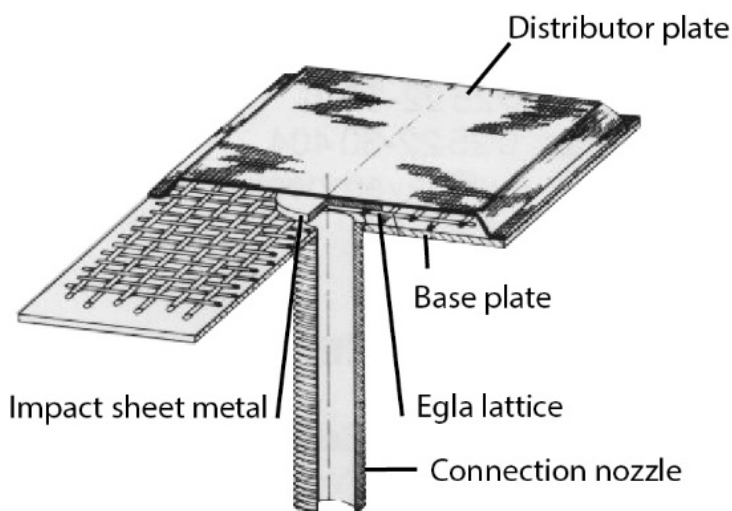


The air cushion loosening system is used for fluidination of lazy flowing, technically dry, non-sticky, powdery products. Use in a series of pulses while discharging material is recommended.

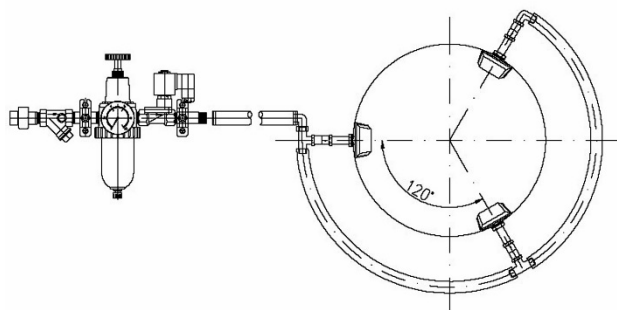
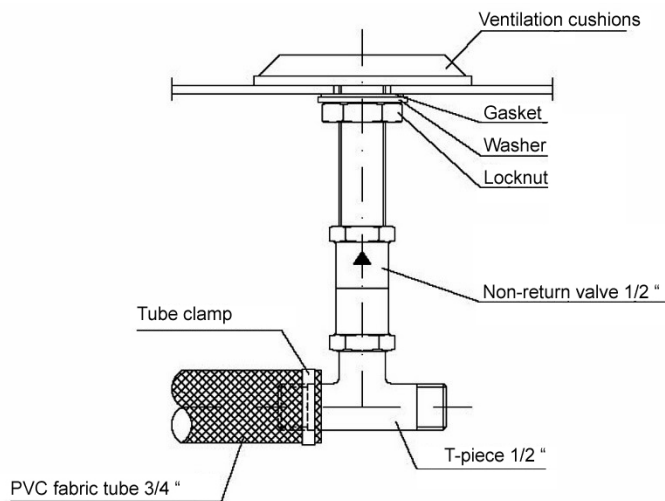
Areas of application

- 3, 6, 9 or 12 special cushions with check valve, for installation in to a silo cone
- Plastic reinforced tube, filter pressure reducing unit, assembled solenoid valve with mounting clamp for installation on a silo cone or silo bracket
- The pre cleaned air (max. operating pressure of 5 bar) is connected on site to the strainer with a suitable tube. The air flows through the oil and water separator into the pressure reducing unit which throttles the air pressure to the necessary level. By activating the solenoid valve, the compressed-air flows through the reinforced plastic tube to the check valves, which are located directly in front of the air injectors, to finally fluidize the bulk material.
- With on site mounted maintenance unit.

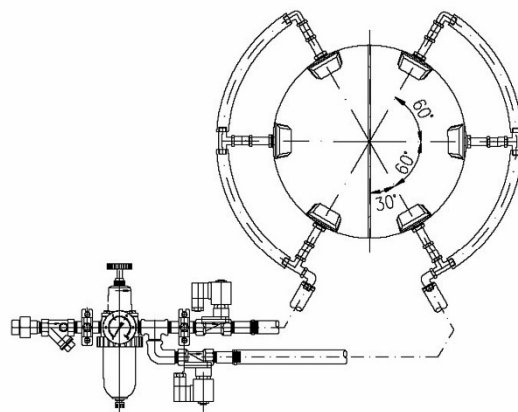
Details / Explanation



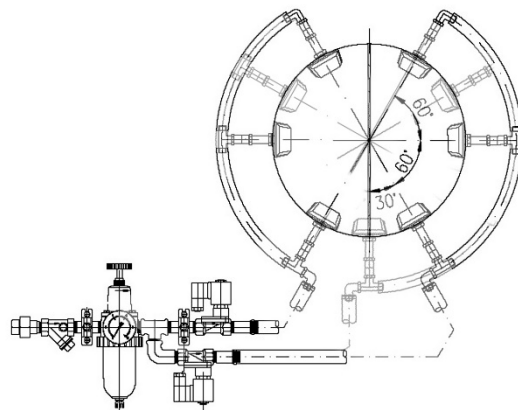
Scale drawing



Version with
3 cushions



Version with
6 cushions



Version with
9 cushions

Technical data air cushion loosening system

Number of cushions	3	6	9	12
Air consumption at 1.0 bar / 5 sec. on / 10 sec. off	360 Nltr. / min.			
Operating pressure	0,5 – 1,0 bar			
Max. temperature cushion	up to 600°C			
Max. temperature cushion load ring line	80° C, higher temperatures on request			
Solenoid valves / pcs.	1	2	3	4
Connection	G ½"			
Size	100 mm x 200 mm			
Pulse duration	5 – 7 sec.			
Break	approx. 10 sec.			
Air	technically dry, oil-free and without foreign matter			
Voltage solenoid valves	230 VAC			

Physical Data

- Chrome nickel steel 1.4301, AISI 304.
- Max. operating temperature of 600° C.

Material grade





Air and electrical supply line, blower and compressor are not included in the scope of delivery.

Notice










Article number – complete systems

Number of cushions	3	6	9	12
Article number 12 mµ	742 10 016	742 10 042	742 10 067	742 10 069
Article number 40 mµ	742 10 014	742 10 036	742 10 068	742 10 070

Clock control STL up to 4 solenoid valves	3/1	6/2	9/3	12/4	
	Article number				
230V/DC Supply voltage	881 10 229				
24V/DC supply voltage	881 10 229-01				
Supply voltage 24V/DC ATEX Zone 22 	881 10 321				

Equipment / Spare parts

	Article number	
Cushion 12 mμ incl. seal and nut	742 10 020	
Cushion 40 mμ incl. seal and nut	742 10 019	
End piece	ST0713	
T-piece	ST2312	
Tube and T-piece	ST0191 ST2312	
Non-return valve	804 10 002	
Air hose transparent per meter	ST2176-PVC	
Solenoid valve 24V/DC	881 10 130	
Solenoid valve 230V/AC	881 10 087	
Solenoid valve ATEX 24V/DC with 3m cable	881 10 087	
Service unit for air injector loosening system complete, 230V/AC, with 1 solenoid valve	742 20 001	

<p>Service unit for air injector loosening system complete, 24V/DC, with 1 solenoid valve</p>	<p>742 20 002</p>	
<p>Service unit for air injector loosening system complete, 24V/DC ATEX 3D, with 1 solenoid valve</p>	<p>742 20 003</p>	
<p>Service unit for air injector loosening system complete, 230V/AC, with 2 solenoid valves</p>	<p>742 20 004</p>	
<p>Service unit for air injector loosening system complete, 24V/DC, with 2 solenoid valves</p>	<p>742 20 005</p>	
<p>Service unit for air injector loosening system complete, 230V/AC, with 3 solenoid valves</p>	<p>742 20 006</p>	
<p>Service unit for air injector loosening system complete, 24V/DC, with 3 solenoid valves</p>	<p>742 20 007</p>	
<p>Service unit for air injector loosening system complete, 24V/DC, with 4 solenoid valves</p>	<p>742 20 008</p>	
<p>Service unit for air injector loosening system complete, 24V/DC ATEX 3D, with 2 solenoid valves</p>	<p>742 20 009</p>	