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*Vacuum conveying system*




*Vacuum conveyor in final assembly*

## EMDE Vacuum conveying system VFS

Technically ambitious products place increasingly high demands on material handling. Product contamination is undesirable. Flexibility and a cleaning effort as low as possible when changing the product are prerequisites for an economic material flow.

The system, which is especially designed for the transport of very fine, powdery products, is equipped with a fine pore stainless steel filter cone with a large filter surface. The filter cone, which is designed as a counter cone, is also a product storage and it will be aerated during the discharge cycle. Bridging effects and discharge difficulties of easily adhering powders are effectively prevented. The special filter system and the total design permits a construction form for use in overpressure or vacuum applications in production.

- Counter cone filter element completely of stainless steel sintered metal
- Discharge support through fluidizing of the filter cone
- Pressure resisting variant up to maximum 10 bar overpressure
-  proofed systems for the dust and gas Ex zone
- Vacuum generation with robust and low maintenance vacuum pumps



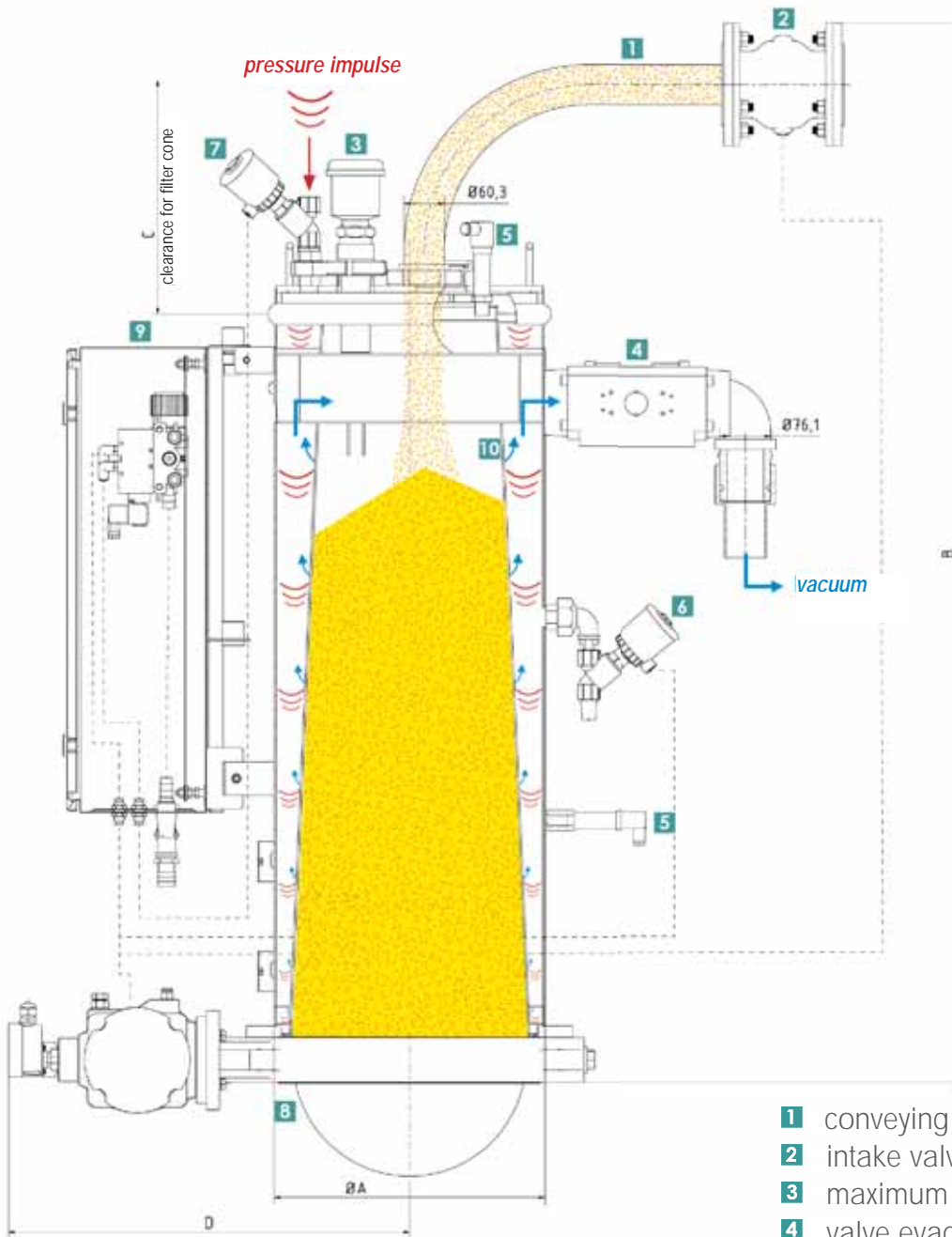
*Vacuum conveyor connection with ball valve*



*Vacuum conveyor for sugar*



*Vacuum conveyor with attached valve cabinet*



- 1 conveying line
- 2 intake valve conveying line
- 3 maximum level sensor
- 4 valve evacuation
- 5 pressure sensors
- 6 pressure compensation valve
- 7 dedusting valve
- 8 pneum. actuated discharge flap
- 9 cabinet for valve actuation
- 10 sintered metal filter cone made from stainless steel

type	Ø A [mm]	total height B [mm]	filter surface [m <sup>2</sup> ]	design height C [mm]	D [mm]
VFS-P30	DN250	1.610	0,7	1.120	535
VFS-P50	DN350	1.810	0,8	870	605
VFS-P60	DN350	1.625	0,9	1.120	605



Vaccum conveyor with height adjustable max. sensor



conveying of activated carbon



Vaccum conveyor with valve cabinet and control box



Conveyor test in the test facility pneumatic conveying

## Complex total systems

... are composed of the comprehensive delivery program „Solids handling“. In addition to the delivery of the individual components, we assume for you the engineering as well as the control planning and production of the electrical control unit. You will receive a total solution for your product handling.

- conveying capacity up to 3t/h
- conveying lines up to 100m
- transport velocity 15-20m/sec.
- system dimensioning based on calculation program proven in practical applications
- conveyor tests in the technical center
- system concept with conveying line planning in 3-D
- installation and commissioning support as well as training of the operators

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