Cement | Minerals

fives

TGT® Filter

Low pressure pulse jet bag filter

TGT® Filter, the filtration solution combining industrial performance and sustainable development

- **High-capacity filter with long bag length and compact footprint**
- **Efficient and reliable on-line cleaning mechanism ensuring low particulate emissions**
- **Stable and easy operation, reduced maintenance and longer bag lifetime for lower operational costs**

TGT® Filter, an optimized design for on-line low pressure cleaning

TECHNICAL DESCRIPTION

High efficiency design
— Long bag length for high capacity
— Filter body designed to ensure an optimized gas and dust distribution within the whole body of the filter, minimized can velocities and limited re-entrainment
— Modular design available for an easy installation

Reliability
— Proprietary cleaning system using optimized integrated piston valves specially developed to maximize the bags lifetime and to ensure a reliable cleaning mechanism
— Compartment design for an easy & smooth on-line maintenance
— Optional bag leak detector for bag diagnostics and emission monitoring

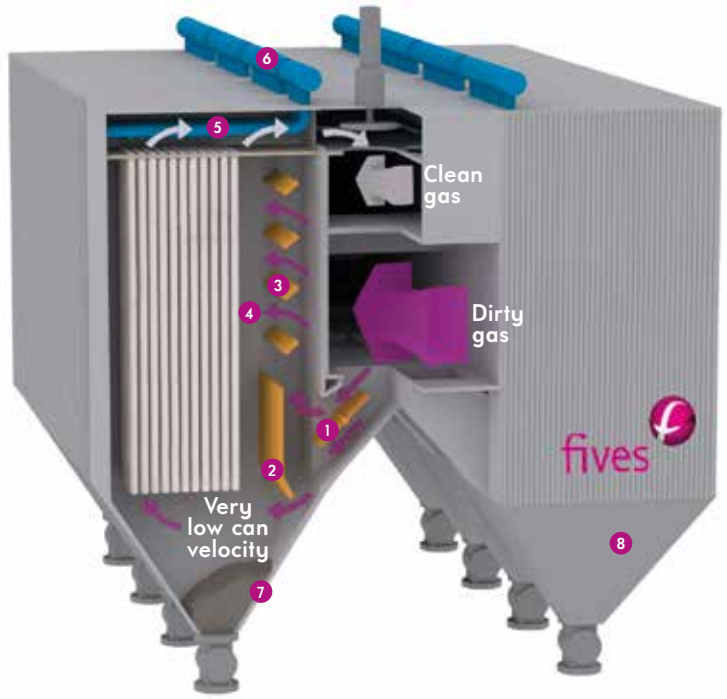
Sustainability
— Low pressure operation limiting shock-wave phenomenon and dust carry-through to ensure a very low emission level
— Optimized compressed air consumption
— Revamping of existing installation by ESP conversion

Efficient low pressure cleaning
— "On-line" cleaning sequence with accurate control via PID control loop based on a single set point for a constant pressure drop and a better process stabilization
— Large capacity piston valve providing a rapid and powerful opening
— Cleaning of the bags with a large volume of low pressure air imparting maximum and efficient cleaning effect
— Fully automated operation

Typical features	
Round bag diameter	127 mm
Length (according to the application)	Up to 8 m
Number of bags per row	17 to 22
Can velocity	0.4 - 0.5m/s

ADVANTAGES
— On-line cleaning for reliable and stable operation
— Reduced cleaning frequency
— Longer bag lifetime
— Compact footprint
— Easy on-line maintenance (option)
— Semi off-line or off-line cleaning (option)

Applications	
Cement	Mineral
— Kilns — Raw mills — Alkali by-pass — Clinker coolers — Finish mills — ESP conversion	— Dry mineral grinding



1 Inlet isolation damper
2 Distribution baffle
3 Distribution vanes
4 Partial side entry to bags
5 Blow pipes
6 Header and piston valves
7 Dust directed to hopper
8 Hoppers

— Compliance with the most stringent environmental regulations by reducing efficiently the emissions to very low levels
— Conversion of ESP with minimized costs and shutdown time
— Significant reduction of the maintenance and operational costs of the filtration system

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