



Cement, Steel.

COALVIT

Non contractual pictures



- High stability for dosing : $\pm 0.5\%$
- High economic ratio coal / air
- Balanced pressure system
- Constant flowrate measure in the conveying pipe
- On line calibration without disturbance
- ATEX design

Définition :

HASLER coal injection and dosing system was designed to meet the requirements of applications using several types of pulverized fuel for a wide range of flowrates (1 up to 30 t/h) and over long distances.

1 - AIRLOCK HOPPER

Located between the storage silo and the weighing hopper, the Airlock Hopper can be isolated and be either at atmospheric pressure with the pulverized material, or at conveying pressure in order to feed the dosing hopper.

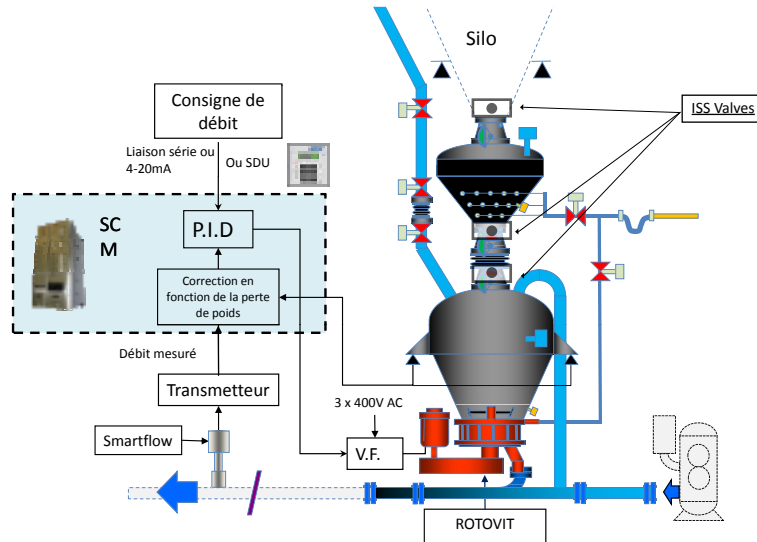
2 - DOSING SYSTEM

2.1. DOSING HOPPER

The weighing of this 10 bar proof hopper allows an on-line calibration by comparing the loss-in-weight with the quantity totalized by the SMARTFLOW21. Arotary lock type ROTOVIT is mounted at the base of the dosing hopper.

2.2. ROTOVIT

ROTOVIT extracts and feeds the pneumatic conveying line with accurate correlation between the rotation speed and the mass flow. A double activator blade ensures constant extraction of pulverized fuel in the whole discharge area. Each discharge cycle of the hopper (loss in weight) offers the opportunity to check the accuracy of the in-line flowmeter and that way the flow measurement is permanently reliable and not interrupted. ISS-Valves (Inflated Sealed Spherical-Valves) are designed for high frequency cycles thanks to the total absence of friction between the material and the shutter itself.



3 - FLOW MEASUREMENT : SMARTFLOW

The device sends micro waves into the process pipe and receives echoes from conveyed particles. Frequency, amplitude and number of these echoes allow mass flow calculation.

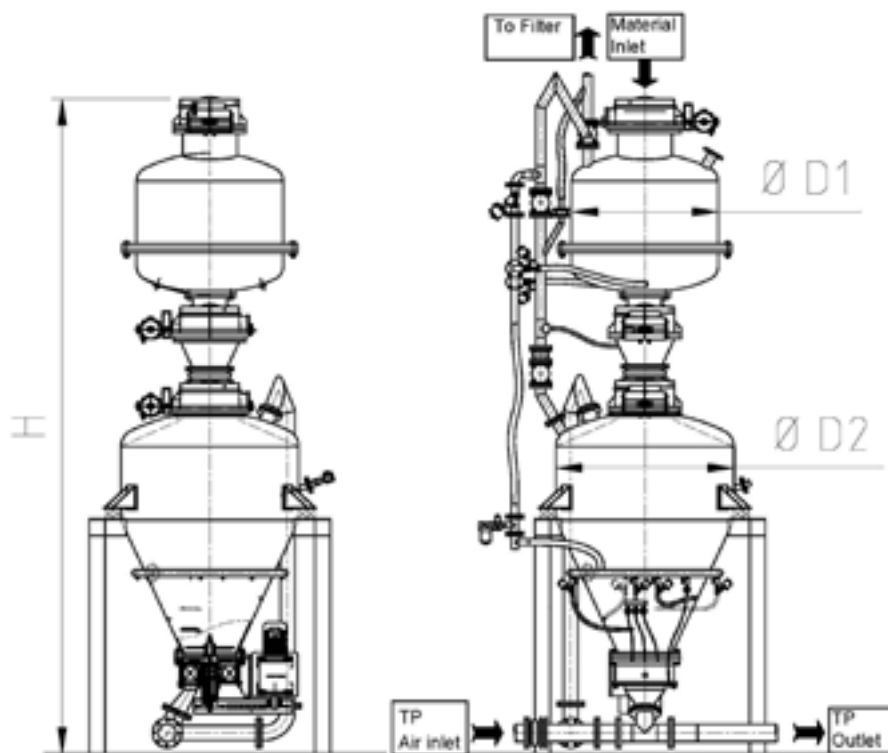
4 - HASLER CONTROLLER : SCM2-P

Reads setpoint and flow measurement. Processes the sensor signals (hopper weight, flowmeter). Calculates the setpoint for ROTOVIT speed. Displays process parameters, status, alarms, messages on SDU.

COALVIT

Model	0,4 / 1 / RT300	0,8 / 2 / RT400	1,2 / 3 / RT 500	1,6 / 4 / RT600	2,0 / 5 / RT700	2,4 / 6 / RT800
Flowrate	10 m3 (5 t/h)	20 m3 (10 t/h)	30 m3 (15 t/h)	40 m3 (20 t/h)	50 m3 (25 t/h)	60 m3 (30 t/h)
AIR LOCK HOPPER (m3)	0,4	0,8	1,2	1,6	2,0	2,4
DOSING HOPPER (m3)	1	2	3	4	5	6
ROTOVIT TYPE (mm)	∅ 300	∅ 400	∅ 500	∅ 600	∅ 700	∅ 800
ISS VALVE (mm)	∅ 300	∅ 300	∅ 300	∅ 300	∅ 400	∅ 400
∅ D1 (mm)	1 100	1 200	1 400	1 500	1 600	1 700
∅ D2 (mm)	1 100	1 400	1 700	1 900	2 000	2 100
HEIGHT (mm)	5 390	6 150	6 730	7 200	8 150	8 650

Layout



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Technical data

ROTOVIT Feeding device	12 cell rotary feeder with vertical stirrer on ROTOVIT shaft
Gear motor unit	400 VAC - IP 55 - from 3 to 7,5 kw - Helical Gear motor
Working temperature range	-10°C to +60°C
Sensor	Smartflow
Material	Steel
Corrosion protection	Primer, Finish coat
Color & Coating	RAL 5000 blue, 80µm standard blue
ATEX	Zone 21 / 22

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