

BAG FILTER (PULSE-JET)

The bag filter comprises of fabric filter with fully automatic bag cleaning device by compressed air pulse. It serves for the dry separation of dust from waste gas. It can filter heavy dust particles and achieve desired collection efficiency at high temperature.

NOTABLE FEATURES:

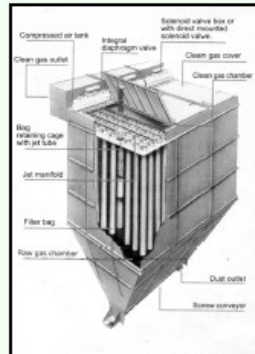
- Low investment and maintenance cost is minimum
- Low compressed air consumption with high bag cleaning efficiency
- Low power consumption combined with high filtration efficiency
- Minimum pressure drop in bag cleaning system
- Accessibility of compressed air supply is easy for system
- Filter bag replacement is simple
- A compact assembled unit
- Assembly work minimum and minimum inventory of spare parts

OPERATION:

The dust-laden air or gas enters in the region of the filter housing. The separation of the raw gas into clear gas and dust collects in the filter bags. Jet manifold is arranged in above filter bags ensure flushing of bags independently.

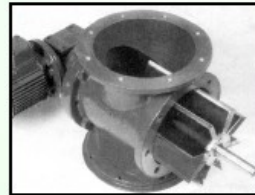
For this purpose compressed air with necessary valves are provided. The compressed air released from the tank through solenoid valves and it passes via jet manifold and the jet tubes being provided in the filter bags into the bags at an angle.

By virtue of the jet action effect compressed air traps the steam gas by pushing the air inside the bag.



ROTARY AIR LOCK

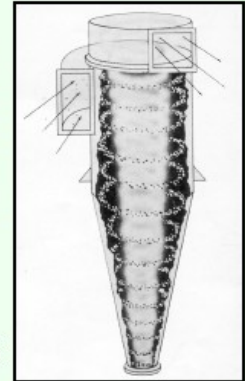
The rotary air lock is used as discharge or feeding device for various applications. when used as discharge equipment, it is used with bag filters cyclones silos and bins. And when it is used as a feeder device, it is used in mills, mixers and in pneumatic conveying system.



CYCLONE SEPARATOR:

Cyclone type dust collector is most used for common dust control in industry. They are simple in construction and different type of material can be used and also at a very high temperature.

In cyclone separator the suspended particles are separated from the gas stream by the action of centrifugal and gravitational force. The dust-laden gas is introduced tangentially into the separation chamber and thereby vortex flow is formed. Consequently in cyclone separator of small diameter, the separation of small suspended particles are effected and the high degree of separation is achieved. For effectively working of dust collection systems with cyclone, efficient dust valves are vital and these dust valves are properly designed and supplied from our end.



WET SCRUBBER:

These equipment are ideal suitable for those application where the characteristics nature of the contaminants present and creating a potential built up problem. When the dust is damp, sticky or explosive, wet scrubbers are the ideal choice.

Some salient features of the equipment:

- The process is continuous and ensures adequate Collection efficiency.
- The process is long term, low cost, minimum maintenance activities.
- Compact construction and in built water flow arrangement.
- Assembly work is minimum
- Requirement of spare parts is negligible

OPERATION:

The equipment utilizes kinetic energy to accomplish dust collection through the principle of impact. The contaminated gas stream is accelerated through a vortical shaped throat section and resulting resulting velocities between 9000 and 24000 feet per minute. The high velocity gas stream streamlines water introduced ahead of the throat and dust particles collide it and are turned into tiny droplets.

The water laden gas moves through a flooded elbow before entering the cyclonic separator tangentially where droplets are removed by centrifugal force and impingement. Clean droplet free air passes through the separator outlet and that slurry is drained off the bottom.

