Applications of Fox Venturi Eductors

Case Study No. 47

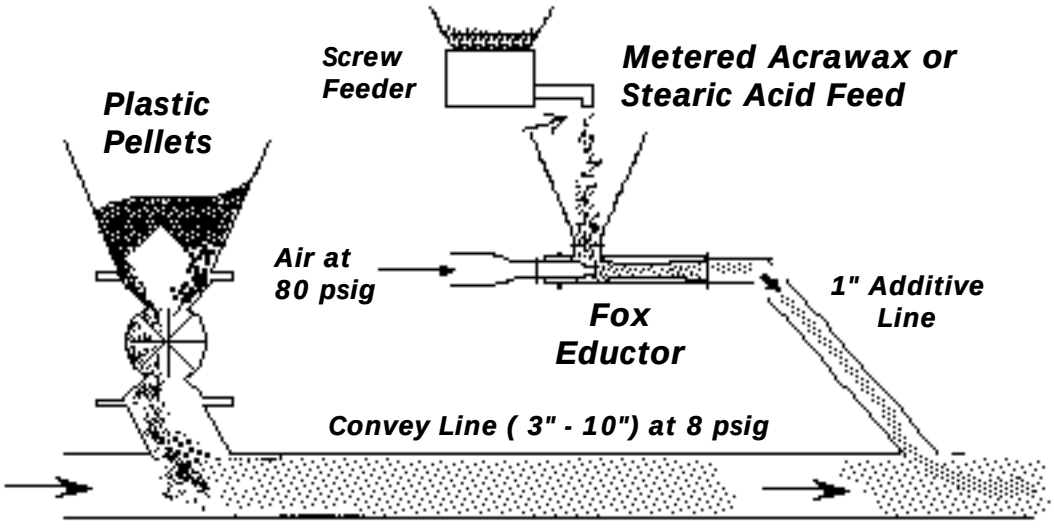
Product : ***Additives to be injected into existing pneumatic conveying lines at up to 10 psig:***

Stearic Acid/Acrawax *- Added to Plastic pellets*
Activated Carbon *- Injected into Hydrated Lime*
Malt/ Bromate *- Blended with Flour*

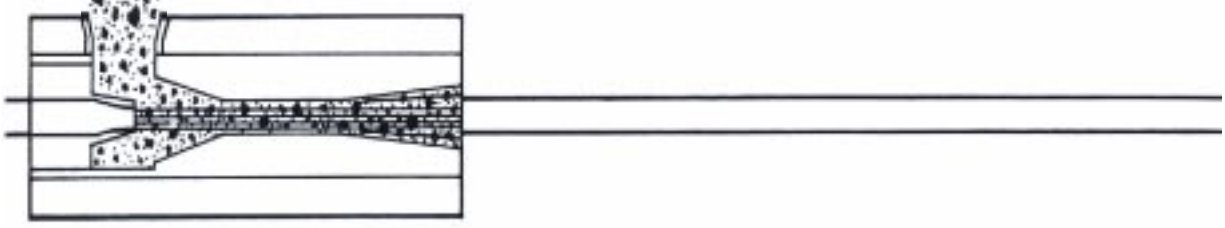
Problem: *An existing pneumatic conveying line is transporting high rates of plastic pellets, lime, or flour. A very small quantity of an additive must be introduced and thoroughly blended with the conveyed material - either as a flow agent, flavor additive, lubricant. The pressure in the transport line is 6, 8, or even 10 psig. Additive transport rate must be accurately controlled with feeder.*

Solution : *Using a small quantity of available compressed air, at 60 - 100 psig, a 360 series Fox eductor can be placed beneath a screw feeder and inject additives directly into the convey line - at pressures up to 10 psig. Turbulence is downstream elbows provides good mixing.*

INJECTING ADDITIVES INTO PNEUMATIC CONVEYING LINES AT UP TO 10 PSIG



Additive Injectionwith no moving parts



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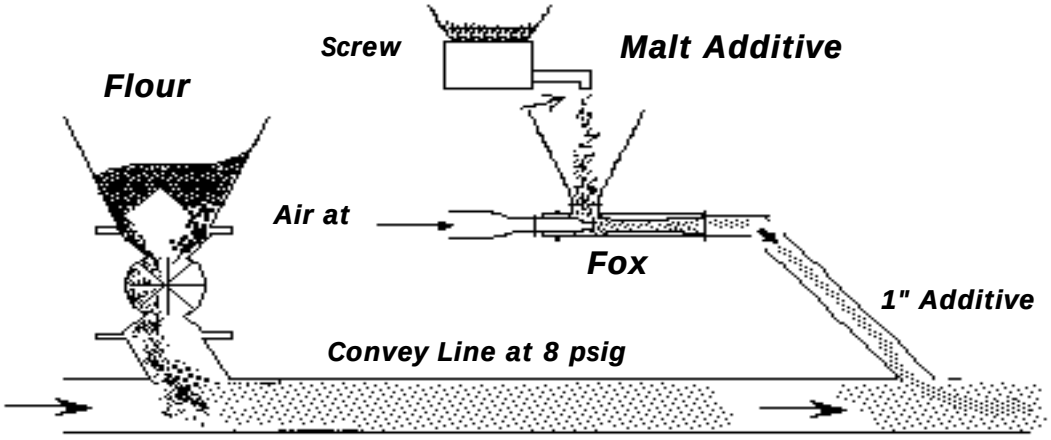
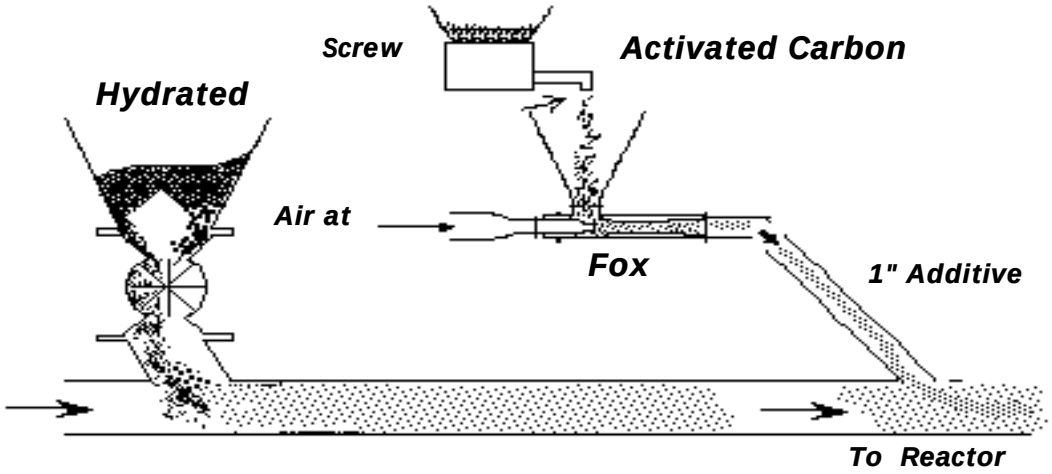
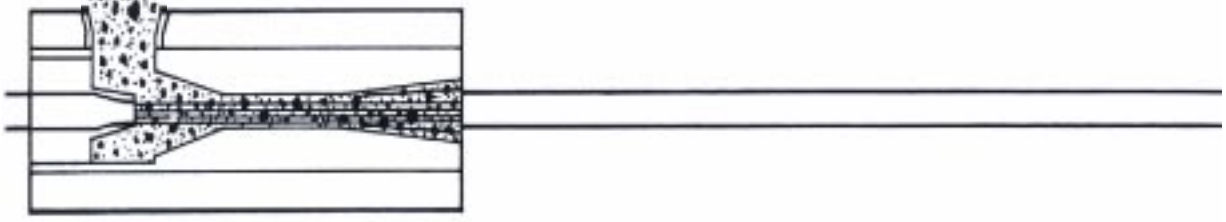
Injecting additives into pneumatic conveying lines

Food Industry Application



Combustion / FGD/ Sorbent Application





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