



SYSTEM COMPARISON—PRESSURE & VACUUM

Comparison of system **PRESSURE & VACUUM**

TYPES OF SYSTEM			
SPECIFICATIONS	DENSE FLOW	DILUTE PRESSURE	DILUTE VACUUM
CONVEYING VELOCITY (Ft/Min)	50Ft/min	3500 - 5000Ft/min	3500 - 5000Ft/min
CONVEYING DISTANCE	HIGH Around 1500feet	MEDIUM Around 600feet	LOW Optimal performance with convey distance limited to 180feet
OPERATING PRESSURES (psig)	Initial: 45 Destination: near Atmospheric pressure	Initial <15 Destination: near Atmospheric pressure	At or below atmospheric pressure, pressure drop through the system
AIR – MATERIAL (SOLID) RATIO	Low Air to Solid Ratio	High Air to Solid Ratio	High Air to Solid Ratio
DEGRADATION	Use where product degradation or pipe erosion is a major concern	Use where degradation is not a concern	Use where degradation is not a concern
BEST FOR THESE TYPES OF MATERIALS	<ul style="list-style-type: none"> *Free Flowing *Granular *Pelletizing *Uniform Paricle size *Non-cohesive *Non-compressible *Abrasive or Non-abrasive *Fluidizable powders 	<ul style="list-style-type: none"> *Light weight *Non abrasive *Fine *Granular *Low or High bulk density *Large light particle materials 	<ul style="list-style-type: none"> *Light weight *Non abrasive *Fine *Granular *Low or High bulk density *Large light particle materials