High Flow Pneuma offered by Denka Consultant & Engineering Co., Ltd., (DCE) is a high-pressure pneumatic conveyance system. High Flow Pneuma conveys powder and granular materials pneumatically at a high solids loading ratio. This system accomplishes long-distance and large-scale conveyance, which is difficult for conventional low-pressure pneumatic conveyance systems.

Standard Configurations of High Flow Pneuma

The figures below show the standard configurations of High Flow Pneuma.

Features of High Flow Pneuma

- The material can be conveyed through the shortest route (provided that a space to lay the piping is secured).
- Maintenance of this system is very easy because it has few mechanical moving parts.
- The automatic operation mode saves labor.
- Use of the compressed air allows the system to convey the material at a high solids loading ratio.
- This system can convey a large amount of power and granular materials efficiently with a small amount of air (high density).
This system can convey a material over a long distance.

- A large amount of material can be conveyed.

- Powder/granular material can be conveyed at a low speed without powdering (10 m/s or less)

- This system can feed with constant mass flow rate. The mass flow rate is adjustable. Constant and continuous conveying is available in a continuous feed type (High flow Pneuma with vertical twin tanks).

- The fluidization bed prevents clogging of the pipe and allows the system to convey the material stably.

### Application Areas

- Steel and metal industries (conveyance of pulverized coal, feeding a material to a burner, conveyance of ore, flux, dust, and waste plastic)
- Inorganic substances (such as cement, ceramic powders, lime, and calcium carbonate)
- Food (such as granulated sugar, grain, wheat flour, and salt)
- Resins (such as plastic powder, pellets, and compounds)