

Ventilation: High Velocity Flow P-333

Design of ducting for high velocity flow of both

- Air
- Flue Gas
- Process Gasses

With minimum pressure permanent pressure loss or back pressure for equipment like gas turbines. Ducting for e.g., power plants is often designed for 16-20 m/s and design needs to be flow wise perfect to reach acceptable losses. The design approaches can with success be superposed to traditional comfort ventilation for optimum design.

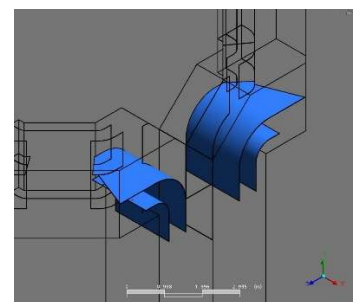
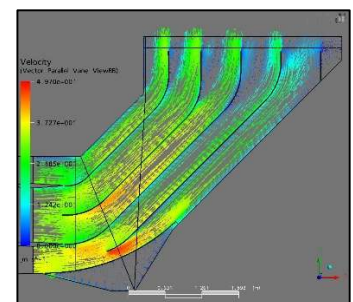
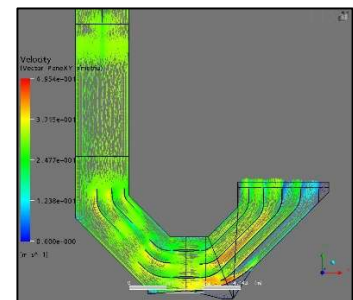
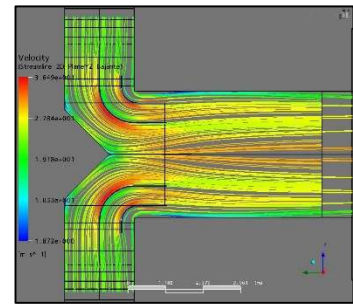
Courses addresses

- Instable Flow and Unstable Vortex's Flow swivels
- Elbow Guide Vane Design
- Expansions of Cross Section area and Carnot Losses
- Sound Attenuators – Absorption, Helmholtz etc.
- Venturi Design
- Mixing of Media with different physically properties
- Exhaust Ducting from both Centrifugal and Axial Flow Fans

Trainees will learn about the basic design guides for optimes flow design of ducting for both process, power, and comfort ventilation.

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Pictures of investigation into power plant ducts between FGD and GAVO for obtaining optimum velocity distribution at the inlet to Rotating Heat Exchanger.

Plantware