

CFSE GUIDE

FLOW OF FLUIDS

14/14

TABLE C4.25 Velocity-pressure loss factors for duct fittings — continued

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CIRCULAR DUCT, 90°					RECTANGULAR DUCT, 90°																																																																													
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Notes to Table C4.25.

Duct angle

When bends have through angles of less than 90°, the pressure loss factors may be presumed to vary in the proportion $\sin^2 \theta$ unless stated otherwise.

Changes of shape (contraction)

For tapered changes of shape where $\theta < 90^\circ$ and $A_1 = A_2$, the

Notes

When straight ducts form splines, the straight duct sections between the conical part should be considered.

Application

The values for the pressure loss factors quoted here assume that the approaching velocity profile is regular. Any irregularity or disturbance may increase or decrease the loss.

Comments

For rectangular ducts, the hydraulic mean diameter is given by

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