

# CFSE GUIDE

## FLOW OF FLUIDS

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

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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  $\sin^2 \alpha / \sin^2 90^\circ$  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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