

CFSE GUIDE

FLOW OF FLUIDS

14/11

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

RADIUS BENDS (Factors refer to the velocity pressure in the duct.)																																																																																																																																																																							
CIRCULAR DUCT, 90°					RECTANGULAR DUCT, 90°																																																																																																																																																																		
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Notes to Table C4.26.

- Duct angle**
Where bends have through angles of less than 90°, the pressure loss factors may be presumed to vary in the proportion $(90/\text{angle})$ unless stated otherwise.
- Changes of shape (contraction)**
For tapered changes of shape where $\theta < 90^\circ$ and $A_2 = A_1$, the

- Notes**
Where straight ducts form splines, the straight duct sections between through components part should be considered as splines.
- 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.
- Dimensions**
For rectangular ducts, the hydraulic mean diameter is given by

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Rachel S Tattersall



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