


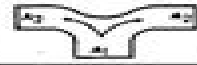

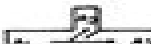

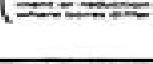



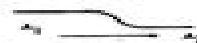






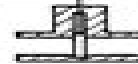

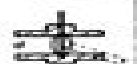




















TABLE C4.36. Velocity pressure loss factors for pipe fittings.

TEES AND JUNCTIONS											
(Based on velocity pressure of combined flow. Factors refer to the branch indicated by the subscript, e.g. $K_2$ is for flow to or from branch 2.)											
 DIVERGING	$K_2$  (Factor for bend or elbow as appropriate)	$K_3$  (Factor for bend or elbow as appropriate)	 DIVERGING	$K_2$  (Factor for bend or elbow as appropriate)	 TONGUE TEE		$K_2$ or $K_3$ (if $\alpha \leq 20^\circ$ ) $K_2 = 0.5$ (if $\alpha \leq 20^\circ$ ) $K_3 = 0.5$				
 CONVERGING	 (Factor for bend or elbow as appropriate)	 (Factor for bend or elbow as appropriate)	 CONVERGING	 (Factor for bend or elbow as appropriate)							
REDUCTIONS					ENLARGEMENTS						
(Based on velocity pressure in smaller pipe.)					(Based on velocity pressure in smaller pipe.)						
		$\frac{A_2}{A_1}$ 0.1 0.53 0.2 0.50 0.3 0.45	$\frac{C}{A_2/A_1}$ 0.4 0.45 0.5 0.35 0.6 0.25				$\frac{A_2}{A_1}$ 0.1 0.85 0.2 0.55 0.3 0.50	$\frac{C}{A_2/A_1}$ 0.4 0.35 0.5 0.15 0.6 0.05			
VALVES											
(Figures are for valves fully open.)											
 GLOBE	 OBLIQUE	 ANGLE	 GATE	 NON-RETURN	 BUTTERFLY	 PLUG	 DIAPHRAGM	 COCK or TAP			
$\frac{A_2}{A_1}$ 15 10 25 10 50 7 100 5	$\frac{C}{A_2/A_1}$ 0.2 10 0.3 8	$\frac{A_2}{A_1}$ 15 10 25 10 50 7 100 5	$\frac{C}{A_2/A_1}$ 0.2 10 0.3 8	$\frac{A_2}{A_1}$ 15 10 25 10 50 7 100 5	$\frac{C}{A_2/A_1}$ 0.2 10 0.3 8	$\frac{A_2}{A_1}$ 15 10 25 10 50 7 100 5	$\frac{C}{A_2/A_1}$ 0.2 10 0.3 8	$\frac{A_2}{A_1}$ 15 10 25 10 50 7 100 5	$\frac{C}{A_2/A_1}$ 0.2 10 0.3 8		
OTHER ITEMS											
 COLUMN RADIATOR	 PANEL RADIATOR	 SECTIONAL BOILER	 TUBE BOILER	 LARGE VESSEL							
$K = 0.5$	$K = 0.5$	$K = 0.5$	$K = 0.5$	$K = 0.5$							
ELBOWS AND BENDS											
TYPE		10-25 mm	25-50 mm	50-75 mm	≥100 mm	TYPE		10-25 mm	25-50 mm	50-75 mm	≥100 mm
WALLEABLE CAST IRON 90° ELBOW		0.8	0.7	0.6	0.6	FLANGED CAST IRON BEND		0.3	0.3	0.3	0.3
WALLEABLE CAST IRON 45° ELBOW		0.6	0.6	0.5	0.5	WELDED MILD STEEL ELBOW		0.4	0.4	0.3	0.3
WALLEABLE CAST IRON BEND		0.7	0.5	0.4	0.4	WELDED MILD STEEL BEND		0.4	0.3	0.3	0.3
SCREWED WELD STEEL BEND		0.7	0.5	0.4	0.3	COPPER PIPE ELBOW		1.0	0.8	0.5	—
WALLEABLE CAST IRON RETURN BEND		0.9	0.8	0.8	—	PANEL RETURN BEND		0.6	—	—	—

## Notes to Table C4.36.

*Convergent flow at junctions*

Where the velocity of flow in one branch of a tee, at a converging junction, is high relative to the velocity in the other, the pressure loss factor for the latter may be negative due to the injection effect.

*Tapers*

Where the included angle is  $10^\circ$  or less, take a factor of 0.2 for an enlargement and ignore for a contraction.

*Pipes*

Individual designs may show wide variations over the values tabulated.

*Radiators*

The resistance to flow through a cast iron column radiator with 5 columns may be approximated by:  $p = 5730 \Delta P^1.5$ .

*Specialist equipment*

Manufacturers' data should be consulted in these cases.

# Cibse Guide Pipe Sizing

**Chao Zhang**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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