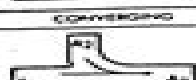
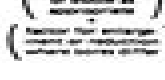
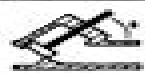
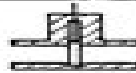
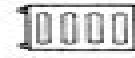


TABLE C4.36. Velocity pressure loss factors for pipe fittings.

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						
 CONVERGING	K_2  Factor for bend or elbow as appropriate	K_3  Factor for bend or elbow as appropriate	 CONVERGING	K_2  Factor for bend or elbow as appropriate	K_2 at $d_2/d_1 = 0.5$ (at $d_1 = 20\text{mm}$) $K_2 = 3.0$ (at $d_1 = 20\text{mm}$) $K_2 = 3.0$						
REDUCTIONS (Based on velocity pressure in smaller pipe.)					ENLARGEMENTS (Based on velocity pressure in smaller pipe.)						
		d_1/d_2 0.1 0.2 0.3	K 0.53 0.50 0.45	A_2/A_1 0.4 0.4 0.5			d_1/d_2 0.1 0.2 0.3	K 0.45 0.4 0.35	A_2/A_1 0.4 0.4 0.5		
VALVES (Figures are for valves fully open.)											
 GLOBE	 OBLIQUE	 ANGLE	 GATE	 NON-RETURN	 BUTTERFLY	 PLUG	 DIAPHRAGM	 COCK or TAP			
d_1/d_2 15 20 30 40	K 0.2 0.2 0.2 0.2	K 0.2 0.2 0.2 0.2	K 0.2 0.2 0.2 0.2	K 0.2 0.2 0.2 0.2	K 0.2 0.2 0.2 0.2	K 0.2 0.2 0.2 0.2	K 0.2 0.2 0.2 0.2	K 0.2 0.2 0.2 0.2	K 0.2 0.2 0.2 0.2		
OTHER ITEMS											
 COLUMN RADIATOR	 PANEL RADIATOR	 SECTIONAL BOILER	 TUBE BOILER	 LARGE VESSEL							
$K = 3.0$	$K = 2.5$	$K = 2.5$	$K = 2.5$	$K = 2.5$							
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		0.8	0.7	0.6	0.6
WALLEABLE CAST IRON 45° ELBOW		0.4	0.4	0.3	0.3	WELDED MILD STEEL ELBOW		0.4	0.4	0.3	0.3
WALLEABLE CAST IRON BEND		0.7	0.6	0.4	0.4	WELDED MILD STEEL BEND		0.4	0.3	0.2	0.2
SCREWED WELD STEEL BEND		0.7	0.6	0.4	0.3	COPPER PIPE ELBOW		1.0	0.8	0.7	—
WALLEABLE CAST IRON RETURN BEND		0.9	0.8	0.8	—	PANEL RETURN BEND		0.8	—	—	—

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° 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.

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Building Services Handbook Fred Hall, Roger Greeno, 2017-04-28 The ninth edition of Hall and Greeno's leading textbook has been reviewed and updated in relation to the latest building and water regulations new technology and new legislation For this edition new updates includes the reappraisal of CO2 emissions targets updates to sections on ventilation fuel A C refrigeration water supply electricity and power supply sprinkler systems and much more Building Services Handbook summarises the application of all common elements of building services practice technique and procedure to provide an essential information resource for students as well as practitioners working in building services building management and the facilities administration and maintenance sectors of the construction industry Information is presented in the highly illustrated and accessible style of the best selling companion title Building Construction Handbook THE comprehensive reference for all construction and building services students Building Services Handbook is ideal for a wide range of courses including NVQ and BTEC National through Higher National Certificate and Diploma to Foundation and three year Degree level The clear illustrations and complementary references to industry Standards combine essential guidance with a resource base for further reading and development of specific topics **Faber & Kell's Heating & Air-conditioning of Buildings**

Doug Oughton, Steve Hodkinson, 2008-02-29 First Published in 2008 Routledge is an imprint of Taylor Francis an information company Faber & Kell's Heating and Air-conditioning of Buildings D. R. Oughton, S. Hodkinson, 2008 For 70 years Faber Kell's has been the definitive reference text in its field The book provides understanding of the principles of heating and air conditioning of buildings in a concise manner Practical applicable information is illustrated with simple easy to use diagrams This 10th edition includes chapters on sustainability renewable energy sources as well as information on the updated Approved Documents Part F and L whilst still retaining the structure and character of the previous editions Building services professionals will find this a reliable everyday source of information The book is also an ideal purchase for newly qualified building services students beginning their career THE book for building services engineers for everyday reference on heating and air conditioning design Includes updates to take into account revised Part F and L sustainability and renewable energy sources Recommended purchase for newly qualified students in the building services sector Building Services Journal

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