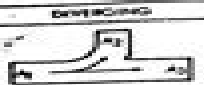
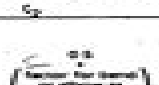
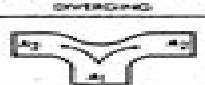
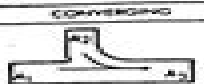
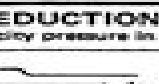
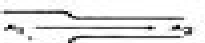
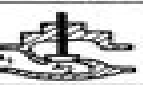
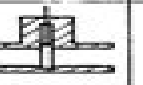
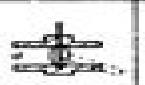
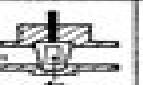
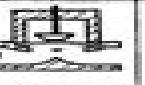


TABLE C4.36. Velocity pressure loss factors for pipe fittings.

TEES AND JUNCTIONS									
(Based on velocity pressure of combined flow. Factors refer to the branch indicated by the subscript, e.g. f_{21} is for flow to or from branch 2.)									
	f_{21}		f_{31}		f_{21}		TONGUE TEE		
	f_{21} (factor for bend or elbow as appropriate)		f_{31} (factor for bend or elbow as appropriate)		f_{21} (factor for bend or elbow as appropriate)	f_{21} or f_{31} (if $\alpha \leq 20^\circ$) f_{21} or f_{31} (if $\alpha > 20^\circ$) f_{21} or f_{31}			
									
REDUCTIONS (Based on velocity pressure in smaller pipe.)					ENLARGEMENTS (Based on velocity pressure in smaller pipe.)				
		d_1/d_2 0.1 0.53 0.2 0.50 0.3 0.45	C 0.53 0.4 0.35			d_1/d_2 0.1 0.85 0.2 0.55 0.3 0.50	C 0.4 0.4 0.35	A_2/A_1 0.4 0.4 0.35	
VALVES (Figures are for valves fully open.)									
									
d_1/d_2 15 10 20 10 30 7 40 6	C 0.2 0.2 0.2 0.2	d_1/d_2 15 10 20 10 30 7 40 6	C 0.2 0.2 0.2 0.2	d_1/d_2 15 10 20 10 30 7 40 6	C 0.2 0.2 0.2 0.2	d_1/d_2 15 10 20 10 30 7 40 6	C 0.2 0.2 0.2 0.2	d_1/d_2 15 10 20 10 30 7 40 6	
OTHER ITEMS									
									
$C = 0.5$	$C = 0.5$	$C = 0.5$	$C = 0.5$	$C = 0.5$					
ELBOWS AND BENDS									
TYPE		10-25 mm	25-50 mm	50-75 mm	≥100 mm	TYPE		10-25 mm	25-50 mm
WALLEABLE CAST IRON 90° ELBOW		0.8	0.7	0.6	0.6	FLANGED CAST IRON BEND		0.8	0.7
WALLEABLE CAST IRON 45° ELBOW		0.6	0.6	0.5	0.5	WELDED MILD STEEL ELBOW		0.4	0.4
WALLEABLE CAST IRON BEND		0.7	0.6	0.4	0.4	WELDED MILD STEEL BEND		0.4	0.3
SCREWED WELD STEEL BEND		0.7	0.6	0.4	0.3	COPPER PIPE ELBOW		1.0	0.8
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° 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 C Pipe Sizing

W.P. Jones

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

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Understanding HVAC Pipe Pressure Drop Charles Nehme, In the intricate world of Heating Ventilation and Air Conditioning HVAC systems every design choice every component selection and every operational parameter contributes to the overarching goals of performance efficiency and occupant comfort Among the myriad factors that demand meticulous attention from engineers designers and facility managers the phenomenon of pressure drop within piping systems stands as a critical yet often underestimated determinant of a system's true success For over three decades my work as a global HVAC and MEP Consultant has provided me with a unique vantage point across diverse applications from the complex demands of industrial facilities to the expansive requirements of commercial developments and the nuanced needs of residential projects This extensive international experience has consistently underscored a fundamental truth neglecting the principles of pressure drop can lead to inflated energy bills inadequate comfort levels premature equipment failure and ultimately a system that falls short of its intended purpose Conversely a deep understanding and proactive management of pressure drop principles pave the way for optimally performing sustainable and cost effective built environments This guide *Understanding HVAC Pipe Pressure Drop* is born from that accumulated knowledge and a commitment to demystifying a subject that is often perceived as daunting It is designed to serve as a comprehensive resource distilling complex fluid dynamics into actionable insights We will journey from the fundamental principles of fluid flow to advanced calculation methods explore the impact of pipe materials and sizing delve into the challenges posed by fittings and equipment and provide practical strategies for both design optimization and troubleshooting existing systems My aim is to empower readers whether seasoned professionals seeking to refine their expertise emerging engineers eager to build a solid foundation or facility managers striving for

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