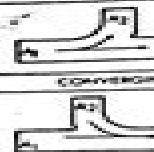
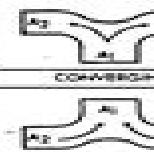
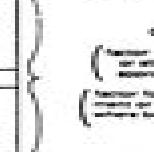
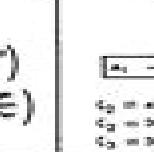
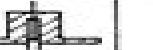


TABLE C4.36. Velocity pressure loss factors for pipe fittings.

TEES AND JUNCTIONS																	
(Based on velocity pressure of combined flow. Factors refer to the branch indicated by the subscript, e.g. C_1 is for flow to or from branch 2.)																	
DIVIDING	C_2	C_3	DIVIDING	C_2	REDUCING		TURBULENT										
	0.8 (factor for branch 2 entering from the side)	0.2 (factor for average branch 3 entering from the side)		0.8 (factor for branch 2 entering from the side)													
CONVERGING			CONVERGING				$C_2 = 0.2$ $C_3 = 0.0$										
REDUCING	(Based on velocity pressure in smaller pipe.)		ENLARGEMENTS		(Based on velocity pressure in smaller pipe.)		$C_2 = 0.2$ $C_3 = 0.0$										
	A_1	A_2		A_1	A_2		A_2	A_3									
	A_1/A_2	C		A_1/A_2	C		A_2/A_3	C									
	0.1	0.50		0.1	0.50		0.1	0.50									
	0.2	0.50		0.2	0.50		0.2	0.50									
	0.3	0.45		0.3	0.45		0.3	0.45									
VALVES																	
(Figures are for valves fully open.)																	
GLOBE		ANGLE		GATE		NON-RETURN		BUTTERFLY		FLUID		DIAPHRAGM		COCK or TAP			
	C for A_1/A_2	A_1/A_2		C for A_1/A_2	A_1/A_2		C for A_1/A_2	A_1/A_2		C for A_1/A_2	A_1/A_2		C for A_1/A_2	A_1/A_2		C for A_1/A_2	A_1/A_2
15	—	1.0	15	—	1.0	15	—	1.0	—	15	—	15	—	1.0	—	1.0	
25	10	—	25	10	—	25	10	—	25	10	—	25	10	—	25	10	
32	7	—	32	7	—	32	7	—	32	7	—	32	7	—	32	7	
45	5	—	45	5	—	45	5	—	45	5	—	45	5	—	45	5	
OTHER ITEMS																	
CONVEX RADIATOR		$C = 1.0$	FLANGE RADIATOR		$C = 1.0$	SECTIONAL RADIATOR		$C = 1.0$	PIPE RADIATOR		$C = 1.0$	COAXIAL THERMOS		$C = 1.0$	$C = 1.0$	$C = 1.0$	$C = 1.0$
ELBOWS AND BENDS																	
TYPE	$10-25$ mm	$32-50$ mm	$63-75$ mm	$100-150$ mm	TYPE	$10-25$ mm	$32-50$ mm	$63-75$ mm	$100-150$ mm								
WELDABLE CAST IRON BUTT SLEEVE		0.8	0.7	0.6	0.6		0.3	0.3	0.3	0.3							
WELDABLE CAST IRON BUTT SLEEVE		0.8	0.8	0.8	0.8		0.4	0.4	0.3	0.3							
WELDABLE CAST IRON BEND		0.7	0.9	0.4	0.4		0.4	0.3	0.3	0.3							
INCREASING MILD STEEL BEND		0.7	0.9	0.4	0.3		0.0	0.0	0.0	—							
WELDABLE CAST IRON RETURN BEND		0.8	0.8	0.8	—		0.4	—	—	—							

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.

Reducers
Where the included angle is 10° or less, take a factor of 0.2 for an enlargement and ignore for a contraction.

Flanges
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: $\mu = 5720 A^2 S^{-0.75}$

Specialist equipment
Manufacturers' data should be consulted in these cases.

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