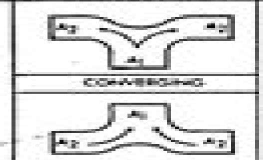
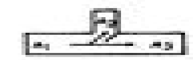
TABLE C4.36. Velocity pressure loss factors for pipe fittings.

TEES AND JUNCTIONS

(Based on velocity pressure of combined flow. Factors refer to the branch indicated by the subscript, e.g. ζ_2 is for flow to or from branch 2.)

DIVERGING / CONVERGING	ζ_2	ζ_3	DIVERGING / CONVERGING	ζ_2	TONGUE TEE
	0.5 + (factor for bend or elbow as appropriate) + (factor for enlargement or reduction where bores differ)	0.2 + (factor for enlargement or reduction where bores differ)		0.5 + (factor for bend or elbow as appropriate) + (factor for enlargement or reduction where bores differ)	 ζ_2 = 4.5 (d < 20 mm); ζ_2 = 3.0 (d ≥ 20 mm); ζ_3 = 3.0

REDUCTIONS

(Based on velocity pressure in smaller pipe.)

A_2/A_1	ζ	A_2/A_1	ζ
0.1	0.35	0.4	0.40
0.2	0.30	0.6	0.33
0.3	0.45	0.8	0.00

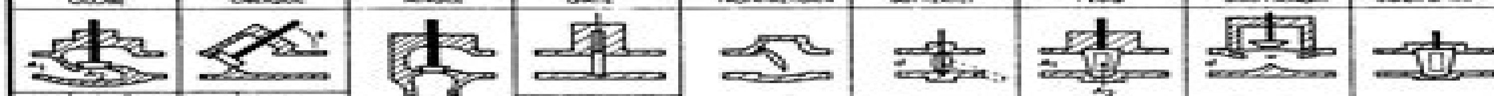
ENLARGEMENTS

(Based on velocity pressure in smaller pipe.)

A_1/A_2	ζ	A_1/A_2	ζ
0.1	0.80	0.4	0.35
0.2	0.65	0.6	0.15
0.3	0.50	0.8	0.05

VALVES

(Figures are for valves fully open.)



GLOBE

d/mm	ζ for A_2/A_1 = 0.7	ζ for A_2/A_1 = 1.0
15	—	10
25	10	7
50	7	5
≥75	6	4

OBLIQUE

d/mm	ζ for θ = 45°	ζ for θ = 60°
15	3	6
25	1.8	4
50	1.5	3.5
≥75	1.0	3.0

ANGLE: ζ = 5.0

GATE

d/mm	ζ
15	0.3
25	0.3
50	0.2
≥75	0.1

NON-RETURN: ζ = 2.0

BUTTERFLY

t/d	ζ
0.1	0.1
0.2	0.3
0.3	0.8

PLUG

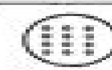
A_2/A_1	ζ
0.7	1.0
1.0	0.4

DIAPHRAGM

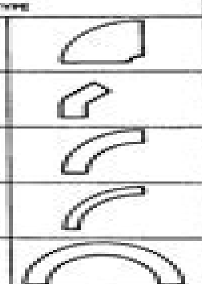
t/d	ζ
0.5	7.0
1.0	2.3
Maximum	0.5

COCK or TAP: ζ = 10

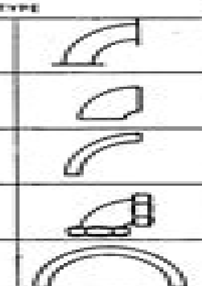
OTHER ITEMS

COLUMN RADIATOR	PANEL RADIATOR	SECTIONAL BOILER	TUBE BOILER	LARGE VESSELS
 ζ = 3.0	 ζ = 2.5	 ζ = 2.5	 ζ = 5.0	 ENTRY ζ = 1.0; EXIT ζ = 0.4

ELBOWS AND BENDS



TYPE	10–25 mm	32–50 mm	65–90 mm	≥100 mm
MALLEABLE CAST IRON 90° ELBOW	0.8	0.7	0.6	0.6
MALLEABLE CAST IRON 45° ELBOW	0.6	0.6	0.5	0.5
MALLEABLE CAST IRON BEND	0.7	0.5	0.4	0.4
SCREWED MILD STEEL BEND	0.7	0.5	0.4	0.3
MALLEABLE CAST IRON RETURN BEND	0.9	0.8	0.8	—



TYPE	10–25 mm	32–50 mm	65–90 mm	≥100 mm
FLANGED CAST IRON BEND	0.5	0.5	0.5	0.5
WELDED MILD STEEL ELBOW	0.4	0.4	0.3	0.3
WELDED MILD STEEL BEND	0.4	0.3	0.3	0.3
COPPER PIPE ELBOW	1.0	0.8	0.5	—
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.

Valves
Individual designs may show wide variations over the values tabulated.

Radiators
The resistance to flow through a cast iron column radiator with S columns may be approximated by: $p = 5720\, M^{2}\, S^{-0.x}$

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

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16, 2014 — They said it is a special oil and if we put in 30 wt oil or Dextron ATF we will destroy the transmission. Since the lift truck is at a job site ... Veracitor ® GC-SVX The Techtronix 100 transmission offers improved tire and fuel costs through ... with service details in mind. The cowl-to-counterweight access makes servicing ... Tektronix - Transmission Lines - YouTube