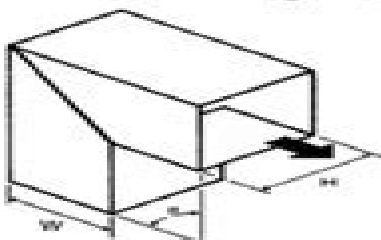
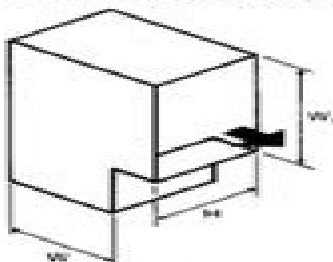


Table 14-10 LOSS COEFFICIENTS, ELBOWS (Cont.)

Use the velocity pressure (V_p) of the upstream section. Fitting loss (TP) = $C \times V_p$
D. Elbow, Rectangular, Mitered (15)


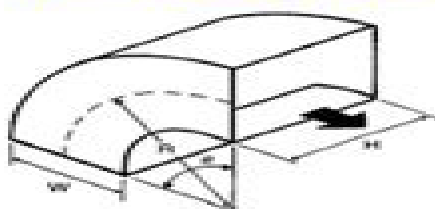
Coefficient C (See Note 2—Page 14.19)

θ	H/W										
	0.25	0.5	0.75	1.0	1.5	2.0	3.0	4.0	5.0	6.0	8.0
20°	0.08	0.08	0.08	0.07	0.07	0.07	0.06	0.06	0.05	0.05	0.05
30°	0.18	0.17	0.17	0.16	0.15	0.15	0.13	0.13	0.12	0.12	0.11
45°	0.38	0.37	0.36	0.34	0.33	0.31	0.28	0.27	0.26	0.25	0.24
60°	0.60	0.59	0.57	0.55	0.52	0.49	0.46	0.43	0.41	0.39	0.38
75°	0.89	0.87	0.84	0.81	0.77	0.73	0.67	0.63	0.61	0.58	0.57
90°	1.3	1.3	1.2	1.2	1.1	1.1	0.98	0.92	0.89	0.85	0.83

E. Elbow, Rectangular, Mitered with Converging or Diverging Flow (15)


Coefficient C (See Note 2—Page 14.19)

H/W	W ₁ /W					
	0.6	0.8	1.2	1.4	1.6	2.0
0.25	1.8	1.4	1.1	1.1	1.1	1.1
1.0	1.7	1.4	1.0	0.95	0.90	0.84
4.0	1.5	1.1	0.81	0.76	0.72	0.66
∞	1.5	1.0	0.69	0.63	0.60	0.55

F. Elbow, Rectangular, Smooth Radius without Vanes (15)


Coefficients for 90° elbows: (See Note 1)

Coefficient C (See Note 3)

R/W	H/W										
	0.25	0.5	0.75	1.0	1.5	2.0	3.0	4.0	5.0	6.0	8.0
0.5	1.5	1.4	1.3	1.2	1.1	1.0	1.0	1.1	1.1	1.2	1.2
0.75	0.57	0.52	0.48	0.44	0.40	0.39	0.39	0.40	0.42	0.43	0.44
1.0	0.27	0.25	0.23	0.21	0.19	0.18	0.18	0.19	0.20	0.21	0.21
1.5	0.22	0.20	0.19	0.17	0.15	0.14	0.14	0.15	0.16	0.17	0.17
2.0	0.20	0.18	0.16	0.15	0.14	0.13	0.13	0.14	0.14	0.15	0.15

Note 3: Correction Factor for Reynolds number — K_{re}

R/W	$Re, 10^4$								
	1	2	3	4	5	8	10	14	≥ 20
0.5	1.40	1.26	1.19	1.14	1.09	1.05	1.04	1.0	1.0
≥ 0.75	2.0	1.77	1.64	1.56	1.46	1.38	1.30	1.15	1.0

U.S. Units
For Standard Air:
 $R_e = 8.56 DV$

(Metric Units)
($R_e = 60.4 DV$)

where:

D = duct diameter, inches (mm)

V = duct velocity, fpm (m/s)

For Rectangular Ducts:

$$D = \frac{2HW}{H + W}$$

Smacna Duct Design Fitting Loss Coefficients

Jicheng Xie



Smacna Duct Design Fitting Loss Coefficients:

The book delves into Smacna Duct Design Fitting Loss Coefficients. Smacna Duct Design Fitting Loss Coefficients is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Smacna Duct Design Fitting Loss Coefficients, encompassing both the fundamentals and more intricate discussions.

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