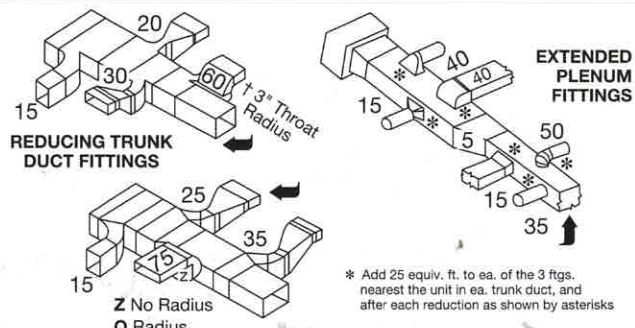
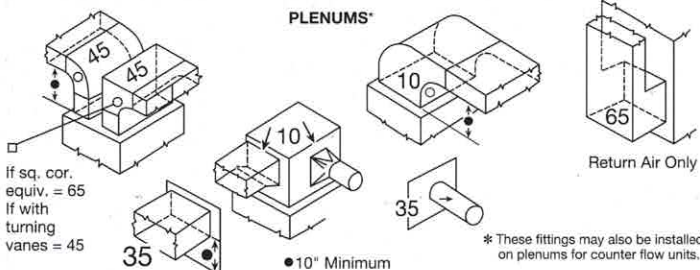
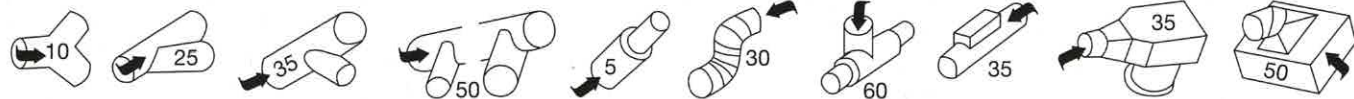


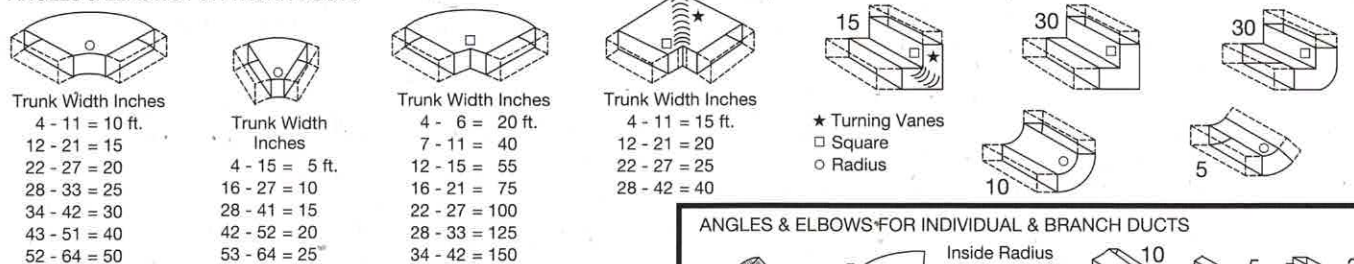
COMMONLY USED FITTINGS-CONNECTIONS ETC. AS INDICATED NUMERALS INDICATE EQUIVALENT FEET OF STRAIGHT DUCT



ROUND TRUNK DUCT FITTINGS

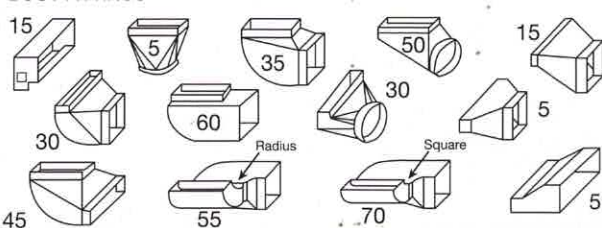


ANGLES & ELBOWS FOR TRUNK DUCTS*

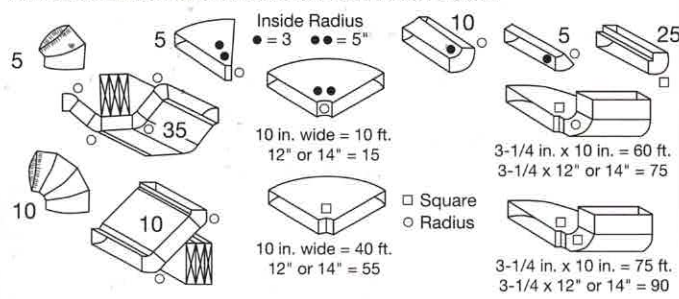


BOOT FITTINGS

These valves may also be used for floor diffuser boxes.



ANGLES & ELBOWS FOR INDIVIDUAL & BRANCH DUCTS



TOTAL EFF. LENGTH DUCT & FITTINGS. (in feet)	CORRECTED PRESSURE DROP (FRICTION) PER 100 FT. DUCT LENGTH*																							
	TOTAL PRESSURE DROP (in. of water column)																							
	.05	.06	.08	.10	.12	.14	.16	.18	.20	.25	.30	.34	.37	.40	.50	.62	.75	1.00						
35-44	.13	.15	.20	.25	.32	.35	.40	.45	.50	.63	.75	.85	.95	1.00	1.25	1.58	1.90	2.54						
45-54	.10	.12	.16	.20	.25	.28	.32	.36	.40	.50	.60	.68	.76	.80	1.00	1.26	1.52	2.02						
55-64	.08	.10	.13	.17	.21	.23	.27	.30	.33	.42	.50	.57	.63	.67	.83	1.05	1.26	1.68						
65-74	.07	.09	.11	.14	.18	.20	.23	.26	.29	.36	.43	.49	.54	.57	.72	.90	1.08	1.44						
75-84	.06	.08	.10	.13	.16	.18	.20	.23	.25	.31	.38	.43	.47	.50	.63	.79	.94	1.26						
85-94	.06	.07	.09	.11	.14	.16	.18	.20	.22	.28	.33	.38	.42	.45	.56	.70	.84	1.12						
95-104	.05	.06	.08	.10	.13	.14	.16	.18	.20	.25	.30	.33	.38	.40	.50	.63	.75	1.01						
105-114	.05	.05	.07	.09	.11	.13	.15	.16	.18	.23	.28	.31	.34	.37	.47	.57	.69	.91						
115-129	.04	.05	.07	.08	.10	.12	.13	.15	.17	.21	.25	.28	.31	.33	.46	.51	.62	.82						
130-149	.04	.04	.06	.07	.09	.10	.11	.13	.14	.18	.21	.24	.27	.29	.36	.45	.54	.72						
150-169	.03	.04	.05	.06	.08	.09	.10	.11	.13	.16	.19	.21	.24	.25	.31	.39	.47	.63						
170-189	.03	.03	.04	.06	.07	.08	.09	.10	.11	.14	.17	.19	.21	.22	.28	.35	.42	.56						
190-214	.03	.03	.04	.05	.06	.07	.08	.09	.10	.13	.15	.17	.19	.20	.25	.31	.37	.50						
215-239	.02	.03	.04	.05	.06	.07	.08	.09	.11	.13	.15	.17	.18	.22	.28	.33	.44							
240-264	.02	.02	.03	.04	.05	.06	.06	.07	.08	.10	.12	.14	.15	.16	.20	.25	.30	.40						
265-289	.02	.02	.03	.04	.04	.05	.06	.07	.07	.09	.11	.12	.14	.15	.18	.23	.27	.36						
290-324	.02	.02	.03	.03	.04	.05	.05	.06	.07	.08	.10	.11	.12	.13	.17	.20	.24	.33						
325-374	.02	.02	.02	.03	.04	.04	.05	.05	.06	.07	.09	.10	.11	.11	.14	.18	.21	.29						
375-424	.01	.02	.02	.03	.03	.04	.04	.05	.05	.06	.08	.09	.09	.10	.13	.16	.19	.25						
425-474	.01	.01	.02	.03	.03	.03	.04	.04	.05	.06	.07	.08	.08	.09	.11	.14	.17	.22						
475-524	.01	.01	.02	.02	.03	.03	.03	.04	.04	.05	.06	.07	.08	.08	.10	.13	.15	.20						
525-574	.01	.01	.02	.02	.02	.03	.03	.03	.04	.05	.06	.07	.07	.07	.09	.11	.14	.18						
575-625	.01	.01	.01	.02	.02	.02	.03	.03	.03	.04	.05	.06	.06	.07	.08	.10	.13	.17						

NOTE: Scale on front of chart is for 100 ft. of duct. For greater or lesser equivalent lengths, use friction indicated in above table.

*Formula for Friction Loss

(if not found in above table): Friction Loss per 100 ft. = $\frac{\text{System design pressure} \times 100}{\text{Total equivalent length of duct}}$

RECOMMENDED AND MAXIMUM DUCT VELOCITIES

	(MAXIMUM VELOCITIES SHOWN IN PARENTHESES)				
DESIGNATION	RESIDENCES	SCHOOLS, THEATERS, PUBLIC BUILDINGS		INDUSTRIAL BUILDINGS	
	THESE VELOCITIES ARE FOR TOTAL FACE AREA				
Outdoor Air Intakes	500 (800)	500 (900)	500 (1200)		
Filters	250 (300)	300 (350)	350 (350)		
Heating Coils	450 (500)	500 (600)	600 (700)		
Cooling Coils	450 (450)	500 (500)	600 (600)		
Air Washers	500 (500)	500 (500)	500 (500)		
	THE FOLLOWING VELOCITIES ARE FOR NET FREE AREA				
Fan Outlets	1000-1600 (1700)	1300-2000 (1500-2200)	1600-2400 (1700-2800)		
Main Ducts	700-900 (800-1200)	1000-1300 (1100-1600)	1200-1800 (1300-2200)		
Branch Ducts	600 (700-1000)	600-900 (800-1300)	800-1000 (1000-1800)		
Branch Risers	500 (650-800)	600-700 (800-1200)	800 (1000-1600)		

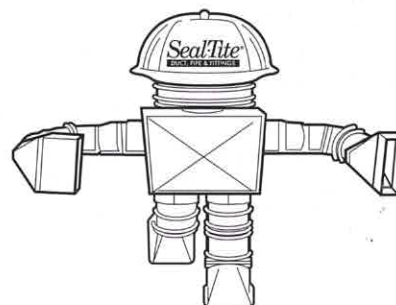
from Chapter 25, 1972 Guide

RECOMMENDED GAUGES FOR SHEET METAL DUCTS

STEEL U.S. STD. GAUGE	ALUMINUM B & S GAUGE	COPPER COLD ROLLED	RECTANGULAR DUCT IN INCHES	STEEL U.S. STD. GAUGE	ROUND DUCT DIAMETER IN INCHES	FLAT-OVAL DUCT IN INCHES MAX. WIDTH
26	24 (0.020)	16 oz.	Up thru 12"	26	Up thru 13"	Up thru 24"
24	22 (0.025)	24 oz.	13" thru 30"	24	14" thru 22"	25" thru 48"
22	20 (0.032)	32 oz.	31" thru 54"	22	23" thru 36"	49" thru 70"
20	18 (0.040)	36 oz.	55" thru 84"	20	37" thru 50"	71" and over
18	16 (0.051)	48 oz.	85" and over	18	51" thru 60"	
				16	61" thru 84"	

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