

TABLE 2. CIRCULAR EQUIVALENTS OF RECTANGULAR DUCTS FOR EQUAL FRICTION—(Continued)

Side Rectangular Duct	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	42	44	46	48
26	28.1	28.6																		
28	29.1	29.7	30.2	30.8																
30	30.1	30.7	31.3	31.9	32.5	33.0														
32	31.1	31.7	32.3	32.9	33.5	34.1	34.6	35.2												
34	32.0	32.7	33.3	33.9	34.5	35.1	35.7	36.3	36.8	37.4										
36	32.9	33.7	34.3	34.9	35.5	36.1	36.7	37.3	37.9	38.5	39.1	39.6								
38	33.8	34.6	35.3	35.9	36.5	37.1	37.7	38.4	39.0	39.5	40.1	40.7	41.2	41.8						
40	34.6	35.3	36.0	36.7	37.4	38.0	38.6	39.3	39.9	40.5	41.1	41.7	42.3	42.9	43.4	44.0				
42	35.2	36.0	36.8	37.6	38.3	39.0	39.6	40.3	40.9	41.5	42.1	42.7	43.4	44.0	44.5	45.1	46.2			
44	36.1	36.9	37.7	38.5	39.2	39.9	40.5	41.2	41.8	42.5	43.1	43.7	44.3	44.9	45.5	46.1	47.2	48.4		
46	37.0	37.8	38.5	39.3	40.0	40.8	41.5	42.2	42.9	43.5	44.2	44.8	45.4	46.0	46.6	47.2	48.4	49.5	50.6	52.8
48	37.8	38.5	39.2	40.0	40.8	41.5	42.3	43.0	43.7	44.4	45.0	45.6	46.3	46.9	47.5	48.1	49.3	50.5	51.6	
50	38.4	39.2	40.0	40.8	41.5	42.3	43.0	43.8	44.5	45.2	45.9	46.5	47.1	47.9	48.5	49.1	50.4	51.6	52.9	54.0
52	39.1	40.0	40.8	41.6	42.3	43.1	43.9	44.7	45.4	46.1	46.8	47.5	48.2	48.9	49.5	50.1	51.3	52.5	53.8	55.0
54	39.8	40.7	41.5	42.4	43.2	44.0	44.7	45.5	46.4	47.0	47.6	48.4	49.2	49.9	50.5	51.1	52.3	53.5	54.8	56.0
56	40.4	41.3	42.1	43.0	43.8	44.6	45.4	46.2	46.9	47.7	48.5	49.1	49.9	50.6	51.3	52.0	53.3	54.6	55.9	57.0
58	41.2	42.1	42.9	43.8	44.5	45.4	46.2	47.0	47.8	48.5	49.4	50.0	50.8	51.5	52.2	52.9	54.2	55.5	56.8	58.0
60	41.8	42.7	43.6	44.5	45.4	46.1	46.9	47.8	48.5	49.3	50.1	50.9	51.6	52.3	53.0	53.8	55.0	56.4	57.7	58.9
62	42.5	43.4	44.3	45.1	46.0	46.8	47.6	48.4	49.3	50.0	50.9	51.7	52.4	53.2	53.9	54.7	55.5	56.2	57.0	59.7
64	43.1	44.0	44.9	45.8	46.7	47.5	48.4	49.2	50.0	50.9	51.7	52.4	53.2	53.9	54.7	55.5	56.2	57.0	58.1	60.6
66	43.7	44.7	45.6	46.5	47.3	48.2	49.1	50.0	50.7	51.6	52.4	53.1	53.9	54.7	55.5	56.2	57.0	57.6	59.1	61.6
68	44.4	45.3	46.3	47.2	48.0	48.9	49.7	50.7	51.4	52.2	53.1	53.8	54.6	55.5	56.2	56.9	58.4	59.9	61.3	62.6
70	45.0	46.0	46.9	47.8	48.7	49.5	50.4	51.3	52.0	52.9	53.7	54.5	55.4	56.2	57.0	57.7	59.1	60.6	62.1	63.5
72	45.5	46.5	47.5	48.4	49.3	50.1	51.0	51.9	52.8	53.7	54.6	55.4	56.2	57.0	57.8	58.7	60.0	61.3	63.0	64.5

TABLE 2. CIRCULAR EQUIVALENTS OF RECTANGULAR DUCTS FOR EQUAL FRICTION—(Continued)

Side Rectangular Duct	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88
50	55.0																			
52	56.1	57.2																		
54	57.2	58.3	59.4																	
56	58.3	59.4	60.5	61.6	62.7	63.8														
58	59.3	60.5	61.6	62.7	63.8	64.9	66.0													
60	60.3	61.5	62.7	63.8	64.9	66.0	67.1	68.2	69.3	70.4										
62	61.3	62.5	63.7	64.8	66.0	67.1	68.2	69.3	70.4	71.5	72.6									
64	62.2	63.5	64.7	65.9	67.1	68.2	69.3	70.4	71.5	72.6	73.7	74.8	75.9	77.0						
66	63.2	64.4	65.7	66.9	68.1	69.3	70.4	71.5	72.6	73.7	74.8	75.9	77.0	78.1	79.2					
68	64.1	65.4	66.6	67.9	69.1	70.3	71.5	72.6	73.7	74.8	75.9	77.0	78.1	79.2	80.3	81.4				
70	65.0	66.3	67.6	68.8	70.1	71.3	72.5	73.7	74.8	75.9	77.0	78.1	79.2	80.3	81.4	82.5	83.6			
72	65.9	67.2	68.5	69.8	71.1	72.3	73.5	74.7	75.9	77.0	78.1	79.2	80.3	81.4	82.5	83.6	84.7	85.8		
74	66.8	68.1	69.4	70.7	72.0	73.3	74.5	75.7	76.9	78.1	79.2	80.3	81.4	82.5	83.6	84.7	85.8	86.9	88.0	
76	67.6	69.0	70.3	71.6	72.9	74.2	75.5	76.7	77.9	79.2	80.3	81.4	82.5	83.6	84.7	85.8	86.9	88.0	89.1	90.2
78	68.4	69.8	71.2	72.6	73.9	75.2	76.4	77.7	78.9	80.2	81.4	82.5	83.6	84.7	85.8	86.9	88.0	89.1	90.2	91.3
80	69.2	70.7	72.1	73.5	74.8	76.1	77.4	78.6	79.9	81.2	82.4	83.6	84.7	85.8	86.9	88.0	89.1	90.2	91.3	92.4
82	70.1	71.5	73.0	74.4	75.7	77.1	78.4	79.6	80.9	82.1	83.4	84.6	85.8	86.9	88.0	89.1	90.2	91.3	92.4	93.5
84	70.9	72.3	73.8	75.2	76.6	78.0	79.3	80.6	81.9	83.1	84.4	85.6	86.8	88.0	89.1	90.2	91.3	92.4	93.5	94.6
86	71.7	73.2	74.6	76.0	77.4	78.9	80.3	81.5	82.9	84.0	85.3	86.6	87.8	89.0	90.2	91.3	92.4	93.5	94.6	95.7
88	72.5	74.0	75.5	76.8	78.3	79.8	81.2	82.5	83.9	85.0	86.3	87.5	88.8	90.0	91.2	92.4	93.5	94.6	95.7	96.8
90	73.3	74.7	76.3	77.7	79.1	80.6	82.0	83.4	84.7	85.9	87.2	88.5	89.7	91.0	92.2	93.4	94.6	95.7	96.8	97.9
92	74.1	75.5	77.1	78.5	79.9	81.4	82.8	84.3	85.6	86.9	88.2	89.5	90.7	92.0	93.2	94.4	95.6	96.7	97.9	99.0
94	74.8	76.3	77.8	79.3	80.7	82.2	83.7	85.1	86.5	87.8	89.1	90.4	91.7	93.0	94.2	95.4	96.6	97.8	99.0	100.1
96	75.5	77.1	78.7	80.2	81.6	83.0	84.5	85.9	87.4	88.7	90.0	91.3	92.6	93.9	95.2	96.4	97.6	98.8	100.0	101.2