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Pipe tables

The list of pipes above is representative and not exhaustive of all types in existence.

Note regarding the standards

Both pipes acc. to DIN 2448 and DIN 2458 are united in ISO 4200.

ISO 4200 is the basis for the Technical Committee ECISS / TC 29, setting up European Standard EN 10220 for dimensions and length-related masses of pipes. In order to specify the method of manufacture, reference is still made to DIN 2448 and DIN 2458.

Note regarding the weights indicated

The weights given are supposed to serve as a guideline for the correct dimensioning of supports and the substructures. In the following tables, all weights are calculated based on the material volume and the density, regardless of any tolerances. Therefore there might be differences in comparison with other tables, which normally do not exceed 3 %. However, in a few cases discrepancies of up to 10 % were found.

Threaded Tube DIN EN 10255 [as a replacement for DIN 2440]

Nominal Diameter [inch]	Outside dia. [mm]	Wall Thickness [mm]	Pipe Weight [kg/m]	Internal Volume [l/m]	Water filled Pipe [kg/m]
1/4	13.5	2.35	0.65	0.06	0.71
3/8	17.2	2.35	0.86	0.12	0.98
1/2	21.3	2.65	1.22	0.20	1.42
3/4	26.9	2.65	1.58	0.37	1.95
1	33.7	3.25	2.44	0.58	3.02
1 1/4	42.4	3.25	3.14	1.01	4.15
1 1/2	48.3	3.25	3.61	1.37	4.98
2	60.3	3.65	5.10	2.21	7.31
2 1/2	76.1	3.65	6.52	3.72	10.24
3	88.9	4.05	8.47	5.13	13.60
4	114.3	4.50	12.19	8.71	20.89
5	139.7	4.85	16.13	13.27	29.40
6	165.1	4.85	19.17	18.97	38.13

Copper Pipes DIN EN 1057 [as a replacement for DIN 1786]

Outside dia. [mm]	Wall Thickness [mm]	Pipe Weight [kg/m]	Internal Volume [l/m]	Water filled Pipe [kg/m]
10.0	1.0	0.25	0.05	0.30
12.0	1.0	0.31	0.08	0.39
15.0	1.0	0.39	0.13	0.53
18.0	1.0	0.48	0.20	0.68
22.0	1.0	0.59	0.31	0.91
28.0	1.5	1.12	0.49	1.61
35.0	1.5	1.41	0.80	2.22
42.0	1.5	1.71	1.19	2.90
54.0	2.0	2.93	1.96	4.89
64.0	2.0	3.49	2.83	6.32
76.1	2.0	4.17	4.08	8.25
88.9	2.0	4.89	5.66	10.55
108.0	2.5	7.42	8.33	15.76
133.0	3.0	10.98	12.67	23.65
159.0	3.0	13.17	18.39	31.56
219.0	3.0	18.24	35.63	53.87
267.0	3.0	22.29	53.50	75.80



Steel Pipes DIN EN 10220, seamless [as a replacement for DIN 2448]

Outside dia. [mm]	Wall Thickness [mm]	Pipe Weight [kg/m]	Internal Volume [l/m]	Water filled Pipe [kg/m]
10.2	1.6	0.34	0.04	0.38
13.5	1.8	0.52	0.08	0.60
16.0	1.8	0.63	0.12	0.75
17.2	1.8	0.68	0.15	0.83
20.0	2.0	0.89	0.20	1.09
21.3	2.0	0.95	0.24	1.19
25.0	2.0	1.13	0.35	1.48
26.9	2.3	1.40	0.39	1.79
30.0	2.6	1.76	0.48	2.24
31.8	2.6	1.87	0.56	2.43
33.7	2.6	1.99	0.64	2.63
38.0	2.6	2.27	0.84	3.11
42.4	2.6	2.55	1.09	3.64
44.5	2.6	2.69	1.21	3.90
48.3	2.6	2.93	1.46	4.39
51.0	2.6	3.10	1.65	4.75
57.0	2.9	3.87	2.06	5.93
60.3	2.9	4.11	2.33	6.44
63.5	2.9	4.33	2.61	6.95
70.0	2.9	4.80	3.24	8.04
76.1	2.9	5.24	3.88	9.12
82.5	3.2	6.26	4.55	10.81
88.9	3.2	6.76	5.35	12.11
101.6	3.6	8.70	7.00	15.70
108.0	3.6	9.27	7.98	17.25
114.3	3.6	9.83	9.01	18.84
127.0	4.0	12.13	11.12	23.26
133.0	4.0	12.73	12.27	25.00
139.7	4.0	13.39	13.62	27.01
152.4	4.5	16.41	16.15	32.56
159.0	4.5	17.15	17.67	34.82
168.3	4.5	18.18	19.93	38.11
177.8	5.0	21.31	22.11	43.42
193.7	5.4	25.08	26.27	51.35
219.1	5.9	31.02	33.75	64.77
244.5	6.3	37.01	42.24	79.25
273.0	6.3	41.44	53.26	94.69
323.9	7.1	55.47	75.33	130.80
355.6	8.0	68.58	90.58	159.16
406.4	8.8	86.29	118.73	205.01
457.0	10.0	110.24	149.99	260.22
508.0	11.0	134.82	185.51	320.33
559.0	12.5	168.47	223.96	392.43
610.0	12.5	184.19	268.78	452.97

Steel Pipes DIN EN 10220, welded [as a replacement for DIN 2458]

Outside dia. [mm]	Wall Thickness [mm]	Pipe Weight [kg/m]	Internal Volume [l/m]	Water filled Pipe [kg/m]
10.2	1.6	0.34	0.04	0.38
13.5	1.8	0.52	0.08	0.60
16.0	1.8	0.63	0.12	0.75
17.2	1.8	0.68	0.15	0.83
19.0	2.0	0.84	0.18	1.02
20.0	2.0	0.89	0.20	1.09
21.3	2.0	0.95	0.24	1.19
25.0	2.0	1.13	0.35	1.48
25.4	2.0	1.15	0.36	1.51
26.9	2.0	1.23	0.41	1.64
30.0	2.0	1.38	0.53	1.91
31.8	2.0	1.47	0.61	2.08
33.7	2.0	1.56	0.69	2.26
38.0	2.3	2.02	0.88	2.90
42.4	2.3	2.27	1.12	3.40
44.5	2.3	2.39	1.25	3.64
48.3	2.3	2.61	1.50	4.11
51.0	2.3	2.76	1.69	4.45
54.0	2.3	2.93	1.92	4.85
57.0	2.3	3.10	2.16	5.26
60.3	2.3	3.29	2.44	5.73
63.5	2.6	3.90	2.67	6.57
70.0	2.6	4.32	3.30	7.62
73.0	2.6	4.51	3.61	8.12
76.1	2.6	4.71	3.95	8.66
82.5	2.6	5.12	4.69	9.82
88.9	2.9	6.15	5.42	11.57
101.6	2.9	7.06	7.21	14.27
108.0	2.9	7.52	8.20	15.72
114.3	3.2	8.77	9.14	17.91
127.0	3.2	9.77	11.42	21.19
133.0	3.6	11.49	12.43	23.92
139.7	3.6	12.08	13.79	25.87
152.4	4.0	14.64	16.38	31.02
159.0	4.0	15.29	17.91	33.20
168.3	4.0	16.21	20.18	36.39
177.8	4.5	19.23	22.38	41.61
193.7	4.5	21.00	26.79	47.79
219.1	4.5	23.82	34.67	58.48
244.5	5.0	29.53	43.19	72.72
273.0	5.0	33.05	54.33	87.37
323.9	5.6	43.96	76.80	120.76
355.6	5.6	48.34	93.16	141.49
406.4	6.3	62.16	121.80	183.96
457.0	6.3	70.02	155.11	225.13
508.0	6.3	77.95	192.75	270.70
559.0	6.3	85.87	234.48	320.35
610.0	6.3	93.80	280.30	374.09



Drain Pipes PVC hard DIN 8062, series 3

Nominal Diameter [inch]	Outside dia. [mm]	Wall Thickness [mm]	Pipe Weight [kg/m]	Internal Volume [l/m]	Water filled Pipe [kg/m]
40	50	1.8	0.40	1.69	2.09
50	63	1.9	0.53	2.75	3.29
70	75	2.2	0.73	3.91	4.65
80	90	2.7	1.08	5.62	6.70
100	110	3.2	1.57	8.43	10.00
125	125	3.7	2.06	10.86	12.92
150	160	4.7	3.35	17.81	21.16
-	180	5.3	4.25	22.54	26.78
-	200	5.9	5.25	27.82	33.07
-	225	6.6	6.61	35.23	41.84
-	250	7.3	8.13	43.52	51.65
-	280	8.2	10.22	54.57	64.80
-	315	9.2	12.90	69.09	82.00

Pressure Pipes PN16 PVC hard DIN 8062, series 5

Nominal Diameter [inch]	Outside dia. [mm]	Wall Thickness [mm]	Pipe Weight [kg/m]	Internal Volume [l/m]	Water filled Pipe [kg/m]
10	16	1.2	0.08	0.15	0.23
15	20	1.5	0.13	0.23	0.35
20	25	1.9	0.20	0.35	0.55
25	32	2.4	0.33	0.58	0.91
32	40	3.0	0.51	0.91	1.42
40	50	3.7	0.79	1.43	2.21
50	63	4.7	1.26	2.26	3.51
65	75	5.6	1.78	3.20	4.98
80	90	6.7	2.56	4.61	7.17
100	110	8.2	3.83	6.88	10.71
125	140	10.4	6.18	11.16	17.34
150	160	11.9	8.08	14.57	22.65
-	180	13.4	10.24	18.43	28.67
-	200	14.9	12.65	22.75	35.40
-	225	16.7	15.96	28.83	44.79
-	250	18.6	19.74	35.57	55.31
-	280	20.8	24.73	44.64	69.37
-	315	23.4	31.30	56.49	87.79

PE Drain Pipes DIN 19535

Nominal Diameter [inch]	Outside dia. [mm]	Wall Thickness [mm]	Pipe Weight [kg/m]	Internal Volume [l/m]	Water filled Pipe [kg/m]
-	32	3.0	0.27	0.53	0.80
-	40	3.0	0.35	0.91	1.26
40	50	3.0	0.44	1.52	1.96
50	56	3.0	0.50	1.96	2.46
-	63	3.0	0.57	2.55	3.12
70	75	3.0	0.68	3.74	4.42
80	90	3.5	0.95	5.41	6.36
100	110	4.3	1.43	8.08	9.50
125	125	4.9	1.85	10.42	12.27
150	160	6.2	3.00	17.11	20.11
200	200	6.2	3.77	27.64	31.42
250	250	7.8	5.93	43.15	49.09
300	315	9.8	9.40	68.53	77.93

Drain Pipes SML DIN 19522

Nominal Diameter [inch]	Outside dia. [mm]	Wall Thickness [mm]	Pipe Weight [kg/m]	Internal Volume [l/m]	Water filled Pipe [kg/m]
40	48	3.0	3.07	1.39	4.46
50	58	3.5	4.34	2.04	6.39
70	78	3.5	5.94	3.96	9.90
80	83	3.5	6.34	4.54	10.87
100	110	3.5	8.49	8.33	16.82
125	135	4.0	11.93	12.67	24.60
150	160	4.0	14.21	18.15	32.36
200	210	5.0	23.35	31.42	54.76
250	274	5.5	33.64	54.33	87.96
300	326	6.0	43.73	77.44	121.17
400	429	8.1	77.65	133.83	211.49
500	532	9.0	107.21	207.50	314.71
600	635	9.9	140.95	297.25	438.20

Drain Pipes GA DIN 19500

Nominal Diameter [inch]	Outside dia. [mm]	Wall Thickness [mm]	Pipe Weight [kg/m]	Internal Volume [l/m]	Water filled Pipe [kg/m]
50	60	3.5	5.19	2.21	7.39
70	80	3.5	7.02	4.19	11.21
100	112	4.0	11.33	8.49	19.83
125	137	4.0	13.96	13.07	27.03
150	162	5.0	20.59	18.15	38.74
200	212	6.0	32.42	31.42	63.84



HDPE Pipes DIN 8074

OD = Outside Diameter, s = Wall Thickness

OD [mm]	Series 1		Series 2		Series 3		Series 4		Series 5	
	S [mm]	Weight [kg/m]	S [mm]	Weight [kg/m]	S [mm]	Weight [kg/m]	S [mm]	Weight [kg/m]	S [mm]	Weight [kg/m]
10	-	-	-	-	-	-	-	-	2.0	0.05
12	-	-	-	-	-	-	-	-	2.0	0.06
16	-	-	-	-	-	-	-	-	2.0	0.08
20	-	-	-	-	-	-	-	-	2.0	0.11
25	-	-	-	-	-	-	2.0	0.14	2.3	0.16
32	-	-	-	-	-	-	2.0	0.18	3.0	0.26
40	-	-	-	-	2.0	0.23	2.3	0.26	3.7	0.40
50	-	-	-	-	2.0	0.29	2.9	0.41	4.6	0.62
63	-	-	2.0	0.36	2.5	0.45	3.6	0.64	5.8	0.99
75	2.0	0.44	2.4	0.52	2.9	0.62	4.3	0.91	6.9	1.40
90	2.2	0.58	2.8	0.73	3.5	0.90	5.1	1.29	8.2	2.00
110	2.7	0.86	3.5	1.11	4.3	1.36	6.3	1.95	10.0	2.98
125	3.1	1.13	3.9	1.41	4.9	1.76	7.1	2.50	11.4	3.87
140	3.5	1.43	4.4	1.78	5.4	2.17	8.0	3.15	12.8	4.86
160	3.9	1.82	5.0	2.31	6.2	2.85	9.1	4.10	14.6	6.34
180	4.4	2.31	5.6	2.91	7.0	3.61	10.2	5.17	16.4	8.01
200	4.9	2.85	6.2	3.59	7.7	4.42	11.4	6.42	18.2	9.88
225	5.5	3.60	7.0	4.55	8.7	5.62	12.8	8.11	20.5	12.51
250	6.1	4.44	7.8	5.64	9.7	6.96	14.2	9.99	22.8	15.46
280	6.9	5.62	8.7	7.04	10.8	8.68	15.9	12.53	25.5	19.37
315	7.7	7.06	9.8	8.93	12.2	11.03	17.9	15.87	28.7	24.52
355	8.7	8.99	11.1	11.39	13.7	13.96	20.1	20.09	32.3	31.11
400	9.8	11.41	12.4	14.34	15.4	17.68	22.7	25.56	36.4	39.50
450	11.0	14.41	14.0	18.22	17.4	22.47	25.5	32.31	41.0	50.05
500	12.2	17.76	15.5	22.41	19.3	27.69	28.3	39.84	45.5	61.72
560	13.7	22.34	17.4	28.18	21.6	34.71	31.7	49.98	-	-
630	15.4	28.25	19.6	35.71	24.3	43.93	35.7	63.32	-	-
710	17.4	35.97	22.1	45.37	27.4	55.82	40.2	80.36	-	-
800	19.6	45.65	24.9	57.60	30.8	70.71	45.3	102.03	-	-
900	22.0	57.65	28.0	72.87	34.7	89.61	-	-	-	-
1000	24.4	71.05	31.0	89.65	38.5	110.48	-	-	-	-

PP Pipes DIN 8078

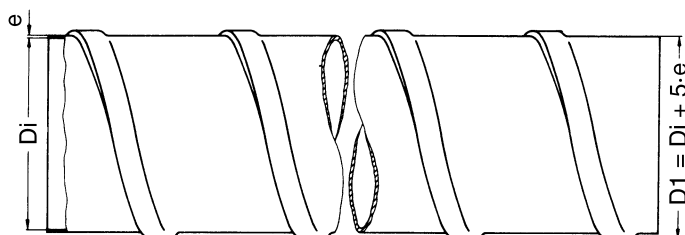
OD = Outside Diameter, s = Wall Thickness

Da [mm]	Series 1		Series 2		Series 3		Series 4	
	S [mm]	Weight [kg/m]	S [mm]	Weight [kg/m]	S [mm]	Weight [kg/m]	S [mm]	Weight [kg/m]
10	-	-	-	-	-	-	2.0	0.05
12	-	-	-	-	-	-	2.0	0.06
16	-	-	-	-	-	-	2.0	0.08
20	-	-	-	-	1.8	0.10	2.5	0.13
25	-	-	-	-	1.8	0.12	2.7	0.18
32	-	-	-	-	2.0	0.18	3.0	0.25
40	-	-	1.8	0.20	2.3	0.25	3.7	0.39
50	1.8	0.25	2.0	0.28	2.9	0.40	4.6	0.61
63	1.8	0.32	2.5	0.44	3.6	0.62	5.8	0.97
75	1.9	0.41	2.9	0.61	4.3	0.89	6.9	1.37
90	2.2	0.56	3.5	0.88	5.1	1.27	8.2	1.96
110	2.7	0.85	4.3	1.33	6.3	1.91	10.0	2.92
125	3.1	1.10	4.9	1.72	7.1	2.45	11.4	3.78
140	3.5	1.40	5.4	2.12	8.0	3.09	12.8	4.76
160	3.9	1.78	6.2	2.79	9.1	4.01	14.6	6.20
180	4.4	2.26	7.0	3.54	10.2	5.06	16.4	7.84
200	4.9	2.79	7.7	4.33	11.4	6.28	18.2	9.67
225	5.5	3.53	8.7	5.50	12.8	7.94	20.5	12.25
250	6.1	4.35	9.7	6.81	14.2	9.78	22.8	15.13
280	6.9	5.51	10.8	8.49	15.9	12.27	25.5	18.96
315	7.7	6.91	12.2	10.79	17.9	15.54	28.7	24.01
355	8.7	8.80	13.7	13.66	20.1	19.67	32.3	30.45
400	9.8	11.17	15.4	17.30	22.7	25.02	36.4	38.67
450	11.0	14.11	17.4	21.99	25.5	31.63	41.0	48.99
500	12.2	17.39	19.3	27.11	28.3	39.00	-	-
560	13.7	21.87	21.6	33.98	31.7	48.93	-	-
630	15.4	27.65	24.3	43.00	35.7	61.99	-	-
710	17.4	35.21	27.4	54.64	40.2	78.67	-	-
800	19.6	44.69	30.8	69.22	-	-	-	-
900	22.0	56.44	34.7	87.73	-	-	-	-
1000	24.4	69.55	38.5	108.15	-	-	-	-



Spiralseam circular ducts DIN 24145

Nominal Diameter [inch]	Inside Diameter Di [mm]	Wall Thickness [mm]	Pipe Weight [kg/m]
71	71	0.4	0.70
80	80	0.4	0.79
90	90	0.4	0.88
100	100	0.6	1.47
112	112	0.6	1.65
125	125	0.6	1.84
140	140	0.6	2.06
150	150	0.6	2.21
160	160	0.6	2.36
180	180	0.6	2.65
200	200	0.6	2.95
224	224	0.6	3.31
250	250	0.6	3.69
280	280	0.6	4.13
300	300	0.8	5.90
315	315	0.8	6.20
355	355	0.8	6.99
400	400	0.8	7.88
450	450	0.8	8.86
500	500	0.8	9.85
560	560	0.8	11.03
600	600	1.0	14.77
630	630	1.0	15.51
710	710	1.0	17.49
800	800	1.0	19.70
900	900	1.0	22.17
1000	1000	1.2	29.56
1120	1120	1.2	33.11
1250	1250	1.2	36.96
1400	1400	1.5	51.73
1600	1600	1.5	59.13
1800	1800	1.5	66.53
2000	2000	1.5	73.93



SS Pipes DIN 2463

Outside dia. [mm]	Wall Thickness [mm]	Pipe Weight [kg/m]	Internal Volume [l/m]	Water filled Pipe [kg/m]
15.0	1.0	0.35	0.13	0.48
18.0	1.5	0.61	0.18	0.79
21.3	2.0	0.95	0.24	1.19
22.0	1.2	0.62	0.30	0.92
26.9	2.0	1.23	0.41	1.64
28.0	1.2	0.79	0.51	1.31
33.7	2.0	1.56	0.69	2.26
35.0	1.5	1.24	0.80	2.04
42.0	1.5	1.50	1.19	2.69
42.4	2.0	1.99	1.16	3.15
48.3	2.0	2.28	1.54	3.82
54.0	1.5	1.94	2.04	3.98
60.3	2.0	2.88	2.49	5.36
76.1	2.0	3.65	4.08	7.74
88.9	2.0	4.29	5.66	9.95
108.0	2.0	5.23	8.49	13.72
114.3	2.0	5.54	9.56	15.09
133.0	3.0	9.62	12.67	22.29
139.7	3.0	10.11	14.04	24.15
159.0	3.0	11.54	18.39	29.93
168.3	3.0	12.23	20.69	32.92
219.1	3.0	15.99	35.67	51.65
273.0	3.0	19.98	55.99	75.97
323.9	3.0	23.74	79.37	103.11
355.6	3.0	26.09	95.99	122.08
406.4	3.0	29.85	125.92	155.76
508.0	4.0	49.72	196.35	246.07
609.6	4.0	59.74	284.25	343.99

