

Pressure Pipe Dimensions for Water & Air

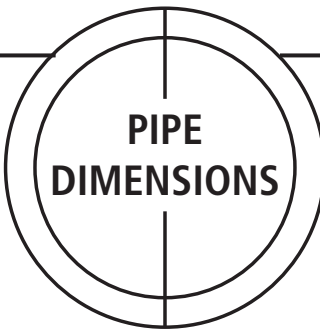
SDR	41		33		26		21		17		13.6		11		9				
	PN FOR PE80	3.2	4	4	-	6.3	8	6.3	8	10	10	12.5	12.5	16	16	20			
PN FOR PN100	4				6.3														
DN	MIN.	MEAN	AVE.	MIN.	MEAN	AVE.	MIN.	MEAN	AVE.	MIN.	MEAN	AVE.	MIN.	MEAN	AVE.	MIN.	MEAN	AVE.	
WALL	ID	MASS	WALL	ID	MASS	WALL	ID	MASS	WALL	ID	MASS	WALL	ID	MASS	WALL	ID	MASS	WALL	ID
16	1.6	12.7	0.075	1.6	12.7	0.075	1.6	12.7	0.075	1.6	12.7	0.075	1.6	12.7	0.075	1.8	12.3	0.082	
20	1.6	16.7	0.10	1.6	16.7	0.10	1.6	16.7	0.10	1.6	16.7	0.10	1.6	16.7	0.10	1.9	16.1	0.11	2.3
25	1.6	21.7	0.12	1.6	21.7	0.12	1.6	21.7	0.12	1.6	21.1	0.12	1.9	21.1	0.14	2.3	20.2	0.17	2.8
32	1.6	28.7	0.16	1.6	28.7	0.16	1.6	28.7	0.16	1.9	28.1	0.18	2.4	27.0	0.23	2.9	26.0	0.27	3.6
40	1.6	36.7	0.20	1.6	36.7	0.20	1.6	36.1	0.23	2.4	35.0	0.29	3.0	33.8	0.25	3.7	32.3	0.42	4.5
50	1.6	46.7	0.25	1.6	46.7	0.25	2.0	45.0	0.37	2.4	43.8	0.45	3.7	42.3	0.54	4.6	40.4	0.66	5.6
63	1.6	59.7	0.32	2.0	59.0	0.38	2.4	58.0	0.47	3.0	56.8	0.57	3.8	55.1	0.71	4.7	53.2	0.86	5.8
75	1.6	71.2	0.45	2.3	70.3	0.54	2.9	69.1	0.67	3.6	67.6	0.81	4.5	65.7	1.00	5.5	63.6	1.20	6.8
90	2.2	85.5	0.63	2.8	84.3	0.78	3.5	85.2	0.97	4.3	81.1	1.17	5.4	78.8	1.44	6.6	76.3	1.73	8.2
110	2.7	104.6	0.92	3.4	103.1	1.15	4.3	101.2	1.46	5.3	99.1	1.75	6.6	96.4	2.14	8.1	93.2	2.59	10.0
125	3.1	118.9	1.20	3.9	117.2	1.49	4.8	115.3	1.84	6.0	112.8	2.24	7.4	109.8	2.74	9.2	106.0	3.34	11.4
140	3.5	133.1	1.58	4.3	131.4	1.85	5.4	129.1	2.33	6.7	126.4	2.81	8.3	123.0	3.44	10.3	118.8	4.19	12.7
160	4.0	152.2	1.97	4.9	150.1	2.44	6.2	147.5	3.05	7.7	144.4	3.68	9.5	140.6	4.48	11.8	135.8	5.47	14.6
180	4.4	171.4	2.45	5.6	169.0	3.06	6.9	166.2	3.80	8.6	162.6	4.63	10.7	158.2	5.67	13.3	152.7	6.94	16.4
200	4.9	190.4	3.01	6.2	187.7	3.77	7.7	184.5	4.71	9.6	180.5	5.73	11.9	175.7	7.00	14.7	169.8	8.51	18.2
225	5.5	214.2	3.38	6.9	211.1	4.79	8.6	207.7	5.92	10.8	203.1	7.24	13.4	197.6	8.88	16.6	190.9	10.80	20.5
250	6.2	237.8	4.78	7.7	234.6	5.90	9.6	230.7	7.33	11.9	225.9	8.87	14.8	219.8	10.88	18.4	212.2	13.31	22.7
280	6.9	266.6	5.92	8.6	262.8	7.41	10.7	258.6	9.15	13.4	252.9	11.19	16.6	246.2	13.67	20.6	237.8	16.68	25.4
315	7.7	300.0	7.44	9.7	295.7	9.34	12.1	290.7	11.66	15.0	284.7	14.07	18.7	276.9	17.31	23.2	267.4	21.14	28.6
355	8.7	338.1	9.46	10.9	333.3	11.85	13.6	327.8	14.73	16.9	320.9	17.86	21.1	312.0	22.03	26.1	301.5	26.80	32.2
400	9.8	380.9	12.00	12.3	375.5	15.02	15.3	369.3	18.68	19.1	361.3	22.77	23.7	351.7	27.84	29.4	339.7	33.98	36.3
450	11.0	458.6	15.13	13.8	422.4	19.04	17.2	415.5	23.61	21.5	406.5	28.80	26.7	395.6	35.27	33.1	382.1	43.05	40.9
500	12.3	476.0	18.82	15.3	496.3	23.52	19.1	461.7	29.13	23.9	451.7	35.53	29.6	439.7	43.45	36.8	424.6	53.12	45.4
560	13.7	533.4	23.45	17.2	525.7	29.49	21.4	517.2	36.51	26.7	506.1	44.47	33.2	492.4	54.60	41.2	475.6	66.64	50.8
630	15.4	600.1	29.67	19.3	591.5	37.26	24.1	581.8	46.27	30.0	569.5	56.17	37.2	554.1	68.99	46.3	535.2	84.23	57.2
710	17.5	676.3	37.65	21.8	666.6	47.30	27.2	655.6	58.81	33.9	641.6	71.52	42.1	624.3	87.74	52.2	6.3.1	107.01	
800	19.6	761.9	47.87	24.5	751.0	60.09	30.6	738.8	74.48	38.1	723.0	90.65	47.7	703.2	111.54				

Note: 1. All dimensions are in millimetres and mass in kg/m.

2. Nominal Diameter (DN) equals outside diameter.

3. These dimensions also apply to THERMAPIPE co-extruded pipe

4. These dimensions are approximate as allowed for in the Australian Standard



CAST IRON PRESSURE PIPE
AS/NZS2544-1995

Nominal Size in mm	Outside Diameter + 1.5mm
80	92.2
100	121.9
150	177.3
200	232.2
225	259.1
250	286.0
300	345.4
375	426.2
450	507.0
500	560.3
600	667.0

PVC PRESSURE PIPE
AS/NZS1477-1996 - SERIES 1

Nominal Size in mm	Outside Min	Diameters Max
15	21.2	21.5
20	26.6	26.9
25	33.4	33.7
32	42.1	42.4
40	48.1	48.4
50	60.2	60.5
65	75.2	75.5
80	88.7	89.1
100	114.1	114.5
125	140.0	140.4
150	160.0	160.5
155	168.0	168.5
175	200.0	200.5
195	219.0	219.5
200	225.0	225.6
225	250.0	250.7
250	280.0	280.8
300	315.0	315.9
350	355.0	356.0
375	400.0	401.0
400	450.0	451.0
450	500.0	501.0
500	560.0	561.0
575	630.0	631.0

PVC (BLUE) PIPE
AS/NZS1477-1996 Series 2
COMPATIBLE WITH CAST
IRON PIPE AS/NZS2544-1995

Outside Diameters Nominal Size in mm	Outside Diameter	
	Min	Max.
100	121.7	122.1
150	177.1	177.6

ASBESTOS CEMENT PIPE
AS4139-1993

Nominal Size in mm	Outside Diameter + .08 mm
58	77.6
80	95.6
100	121.9
150	177.3
200	232.2
225	259.1
250	286.0
300 A	333.8
300 B	333.8
300 C	345.4
300 D	345.4
375 A	413.0
375 B	413.0
375 C	426.2
450 A	492.2
450 B	492.2
450 C	507.0
525 A	571.5
525 B	571.5
525 C	587.2
600 A	650.2
600 B	650.2
600 C	667.0

COPPER TUBE
AS1432-1996

Nominal Size in mm	Outside Diameter Max.
6	6.35
8	7.94
10	9.52
15	12.70
18	15.88
20	19.05
25	25.40
32	31.75
40	38.10
50	50.80
65	63.50
80	76.20
100	101.60
125	127.00
150	152.40
200	203.20

POLYETHYLENE PRESSURE PIPE
AS/NZS4130-1997

Nominal Outside Diameter in mm	Mean Outside Minimum	Diameter Maximum
50	50.0	50.4
63	63.0	63.5
75	75.0	75.6
90	90.0	90.8
110	110.0	110.9
125	125.0	126.0
140	140.0	141.2
160	160.0	161.3
180	180.0	181.5
200	200.0	201.6
225	225.0	226.8
250	250.0	252.0
280	280.0	282.3
315	315.0	317.6
355	355.0	357.9
400	400.0	403.2
450	450.0	453.6

Pipe Dimensions

PE Wall Thickness Comparison Guide

AS1159 TYPE 50 (HDPE) - AS4130 PE80(MDPE) / AS4130 PE100(HDPE)

16mm	CLASS 3 PN8	CLASS 4.5 PN8	CLASS 6 PN8	CLASS 9 PN8	CLASS 12 PN8
20mm	CLASS 3 PN8	CLASS 4.5 PN8	CLASS 6 PN8	CLASS 9 PN8	CLASS 12 PN16/20
25mm	CLASS 3 PN6.3/PN8	CLASS 4.5 PN8/PN10	CLASS 6 PN8/PN10	CLASS 9 PN12.5/16	CLASS 12 PN16
32mm	CLASS 3 PN4/-	CLASS 4.5 PN6.3/-	CLASS 6 PN8/PN10	CLASS 9 PN12.5/16	CLASS 12 PN16/20
40mm	CLASS 3 PN3.2	CLASS 4.5 PN6.3/PN8	CLASS 6 PN8/PN10	CLASS 9 PN12.5/16	CLASS 12 PN16/20
50mm	CLASS 3 PN4/-	CLASS 4.5 PN6.3/PN8	CLASS 6 PN8/PN10	CLASS 9 PN12.5/16	CLASS 12 PN16/20
63mm	CLASS 3 PN4/-	CLASS 4.5 PN6.3/PN8	CLASS 6 PN8/PN10	CLASS 9 PN12.5/16	CLASS 12 PN16/20
75mm	CLASS 3 PN4/-	CLASS 4.5 PN6.3/PN8	CLASS 6 PN8/PN10	CLASS 9 PN12.5/16	CLASS 12 PN16/20
90mm	CLASS 3 PN4/-	CLASS 4.5 PN6.3/PN8	CLASS 6 PN8/PN10	CLASS 9 PN12.5/16	CLASS 12 PN16/20
110mm	CLASS 3 PN4/-	CLASS 4.5 PN6.3/PN8	CLASS 6 PN8/PN10	CLASS 9 PN12.5/16	CLASS 12 PN16/20
125mm	CLASS 3 PN4/-	CLASS 4.5 PN6.3/PN8	CLASS 6 PN8/PN10	CLASS 9 PN12.5/16	CLASS 12 PN16/20
140mm	CLASS 3 PN4/-	CLASS 4.5 PN6.3/PN8	CLASS 6 PN8/PN10	CLASS 9 PN12.5/16	CLASS 12 PN16/20
160mm	CLASS 3 PN4/-	CLASS 4.5 PN6.3/PN8	CLASS 6 PN8/PN10	CLASS 9 PN12.5/16	CLASS 12 PN16/20
200mm	CLASS 3 PN4/-	CLASS 4.5 PN6.3/PN8	CLASS 6 PN8/PN10	CLASS 9 PN12.5/16	CLASS 12 PN16/20
225mm	CLASS 3 PN4/-	CLASS 4.5 PN6.3/PN8	CLASS 6 PN8/PN10	CLASS 9 PN12.5/16	CLASS 12 PN16/20
250mm	CLASS 3 PN4/-	CLASS 4.5 PN6.3/PN8	CLASS 6 PN8/PN10	CLASS 9 PN12.5/16	CLASS 12 PN16/20
280mm	CLASS 3 PN4/-	CLASS 4.5 PN6.3/PN8	CLASS 6 PN8/PN10	CLASS 9 PN12.5/16	CLASS 12 PN16/20
315mm	CLASS 3 PN4/-	CLASS 4.5 PN6.3/PN8	CLASS 6 PN8/PN10	CLASS 9 PN12.5/16	CLASS 12 PN16/20
355mm	CLASS 3 PN4/-	CLASS 4.5 PN6.3/PN8	CLASS 6 PN8/PN10	CLASS 9 PN12.5/16	CLASS 12 PN16/20
400mm	CLASS 3 PN4/-	CLASS 4.5 PN6.3/PN8	CLASS 6 PN8/PN10	CLASS 9 PN12.5/16	CLASS 12 PN16/20
450mm	CLASS 3 PN4/-	CLASS 4.5 PN6.3/PN8	CLASS 6 PN8/PN10	CLASS 9 PN12.5/16	CLASS 12 PN16/20
500mm	CLASS 3 PN4/-	CLASS 4.5 PN6.3/PN8	CLASS 6 PN8/PN10	CLASS 9 PN12.5/16	CLASS 12
560mm	CLASS 3 PN4/-	CLASS 4.5 PN6.3/PN8	CLASS 6 PN8/PN10	CLASS 9 PN12.5/16	CLASS 12
630mm	CLASS 3 PN4/-	CLASS 4.5 PN6.3/PN8	CLASS 6 PN8/PN10	CLASS 9	CLASS 12
710mm	CLASS 3 PN4/-	CLASS 4.5 PN6.3/PN8	CLASS 6 PN8/PN10	CLASS 9	CLASS 12
800mm	CLASS 3 PN4/-	CLASS 4.5 PN6.3/PN8	CLASS 6	CLASS 9	CLASS 12
1000mm	CLASS 3 PN4/-	CLASS 4.5 PN6.3/PN8	CLASS 6	CLASS 9	CLASS 12