

KDS018 Maximum Allowable Pressures for PVC Pressure Pipes to AS1477
Maximum Allowable Pressures to 20 °C

DN (mm)	OD (mm)	PN4.5		PN6		PN9		PN12		PN15		PN18	
		Wall Thickness (mm)	Inside Diameter (mm)	Wall Thickness (mm)	Inside Diameter (mm)	Wall Thickness (mm)	Inside Diameter (mm)	Wall Thickness (mm)	Inside Diameter (mm)	Wall Thickness (mm)	Inside Diameter (mm)	Wall Thickness (mm)	Inside Diameter (mm)
15		-	-	-	-	-	-	-	-	1.5	18.3	1.8	17.8
20	26.75	-	-	-	-	-	-	1.5	23.7	1.9	23	2.2	22.4
25	33.55	-	-	-	-	1.5	30.5	1.9	29.8	2.3	29	2.7	28.1
32	42.25	-	-	-	-	1.9	38.5	2.4	37.5	2.9	36.4	3.4	35.4
40	48.25	-	-	1.5	45.2	2.1	44.1	2.7	42.8	3.3	41.6	3.9	40.5
50	60.35	-	-	1.8	56.8	2.6	55.2	3.3	53.7	4.1	52.2	4.9	50.5
65	75.35	1.7	72	2.2	71	3.2	68.9	4.2	67	5.1	65.1	6.1	63.2
80	88.9	2	84.9	2.6	83.7	3.8	81.3	4.9	79	6.1	76.7	7.1	74.6
100	114.3	2.5	109.3	3.2	107.8	4.8	104.6	6.3	101.7	7.7	98.8	9.1	96
125	140.2	3	134.1	4	132.2	5.9	128.4	7.6	124.9	-	-	-	-
150	160.3	3.4	153.4	4.5	151.3	6.7	146.9	8.8	142.7	10.8	138.7	12.8	134.7
200	225.3	-	-	5.7	213.8	8.4	208.5	11.1	203.1	13.6	198	16.2	192.9
225	250.4	4.8	240.8	6.3	237.7	9.3	231.7	12.3	225.8	15.2	220	18	214.4
250	280.4	-	-	7.1	266.2	10.5	259.4	13.7	252.9	17	246.4	20.1	239.9
300	315.5	6	303.4	8	299.5	11.7	292	15.5	284.5	19.1	277.3	22.6	270.2
375	400.5	7.7	385.1	10.1	380.3	14.9	370.7	19.6	363.3	-	-	-	-

Notes:

- “PN” refers to the maximum pressure rating of the pipe in bar. For example, PN 4.5 = 4.5 bar = 450 kPa = 0.45 MPa.
- The pressure ratings (“PN”) shown are only valid for service temperatures between 0 and 20 °C. The thermal de-rating factors (shown in the table below) must be applied for temperatures above 20 °C. Multiply these factors by the values shown above.
- PVC pipe is not suitable for working temperatures above 50 °C.

Thermal De-Rating Factors for PVC Pipe to AS 1477 - Temperatures to 50 °C

Maximum Service Temperature	Maximum Pressure De-Rating Factor
20	1.00
30	0.90
40	0.70
50	0.50