

Table 4 Standard Dimension Ratio (SDR) and Corresponding Wall Thicknesses (e) of Pipes
(Clauses 7.4 and E-4.3)

All dimensions in millimetres.

SDR	SDR 41		SDR 33		SDR 26		SDR 21		SDR 17		SDR 13.6		SDR 11		SDR 9		SDR 7.4		SDR 6				
Nominal Pressure (PN) Bar																							
PE 63	PN 2		PN 2.5		PN 3.2		PN 4		PN 5		PN 6		PN 8		-		-		-				
PE 80	PN 2.5		PN 3.2		PN 4		PN 5		PN 6		PN 8		PN 10		PN 12.5		PN 16		PN 20				
PE 100	PN 3		PN 4		PN 5		PN 6		PN 8		PN 10		PN 12.5		PN 16		PN 20		-				
OD d _n , mm	e _{Min} mm	e _{Max} mm	e _{Min} mm	e _{Max} mm	e _{Min} mm	e _{Max} mm	e _{Min} mm	e _{Max} mm	e _{Min} mm	e _{Max} mm	e _{Min} mm	e _{Max} mm	e _{Min} mm	e _{Max} mm	e _{Min} mm	e _{Max} mm	e _{Min} mm	e _{Max} mm	e _{Min} mm	e _{Max} mm			
16															1.8	2.1	2.2	2.5	2.7	3.1			
20														1.9	2.2	2.3	2.6	2.7	3.1	3.4	3.8		
25											1.9	2.2	2.4	2.7	2.9	3.3	3.6	4.1	4.4	4.9	5.4	6	
32										1.9	2.2	2.4	2.7	3	3.4	3.7	4.2	4.5	5.1	5.4	6	6.7	7.5
40								1.9	2.2	2.4	2.7	3	3.4	3.7	4.2	4.5	5.1	5.4	6	6.7	7.5		
50					2	2.3	2.4	2.7	3	3.4	3.7	4.2	4.6	5.2	5.6	6.3	6.8	7.6	8.4	9.3			
63					2.5	2.9	3	3.4	3.7	4.2	4.7	5.3	5.8	6.5	7	7.8	8.6	9.6	10.5	11.7			
75	1.9	2.2	2.3	2.6	2.9	3.3	3.6	4.1	4.5	5.1	5.6	6.3	6.9	7.7	8.4	9.3	10.2	11.3	12.5	13.9			
90	2.2	2.5	2.8	3.2	3.5	4	4.3	4.8	5.3	5.9	6.7	7.5	8.2	9.1	10	11.1	12.2	13.5	15	16.6			
110	2.7	3.1	3.4	3.8	4.3	4.8	5.3	6	6.5	7.3	8.1	9	10	11.1	12.3	13.6	14.9	16.5	18.4	20.3			
125	3.1	3.5	3.8	4.3	4.8	5.4	6	6.7	7.4	8.2	9.2	10.2	11.4	12.7	13.9	15.4	16.9	18.7	20.9	23.1			
140	3.5	4	4.3	4.8	5.4	6	6.7	7.5	8.3	9.2	10.3	11.4	12.8	14.2	15.6	17.3	19	21	23.4	25.8			
160	3.9	4.4	4.9	5.5	6.2	6.9	7.7	8.6	9.5	10.6	11.8	13.1	14.6	16.2	17.8	19.7	21.7	24	26.7	29.5			
180	4.4	4.9	5.5	6.2	7	7.8	8.6	9.6	10.6	11.8	13.3	14.7	16.4	18.1	20	22.1	24.4	26.9	30	33.1			
200	4.9	5.5	6.1	6.8	7.7	8.6	9.6	10.7	11.8	13.1	14.7	16.3	18.2	20.1	22.3	24.6	27.1	29.9	33.4	36.8			
225	5.5	6.2	6.9	7.7	8.7	9.7	10.8	12	13.3	14.7	16.6	18.4	20.5	22.7	25	27.6	30.5	33.7	37.5	41.4			
250	6.1	6.8	7.6	8.5	9.7	10.8	12	13.3	14.7	16.3	18.4	20.3	22.8	25.2	27.8	30.7	33.8	37.3	41.7	46			
280	6.9	7.7	8.5	9.5	10.8	12	13.4	14.8	16.5	18.3	20.6	22.8	25.5	28.2	31.2	34.4	37.9	41.8	46.7	51.5			
315	7.7	8.6	9.6	10.7	12.2	13.5	15	16.6	18.6	20.6	23.2	25.6	28.7	31.7	35	38.6	42.6	47	52.5	57.9			
355	8.7	9.7	10.8	12	13.7	15.2	16.9	18.7	20.9	23.1	26.1	28.8	32.3	35.6	39.5	43.6	48	52.9	59.2	65.2			
400	9.8	10.9	12.2	13.5	15.4	17	19.1	21.1	23.6	26.1	29.5	32.6	36.4	40.1	44.5	49.1	54.1	59.6	66.7	73.5			
450	11	12.2	13.7	15.2	17.3	19.1	21.5	23.8	26.5	29.3	33.1	36.5	40.9	45.1	50	55.1	60.9	67.1	75	82.6			
500	12.2	13.5	15.2	16.8	19.3	21.3	23.9	26.4	29.5	32.6	36.8	40.6	45.5	50.2	55.6	61.3	67.6	74.5	83.4	91.8			
560	13.7	15.2	17	18.8	21.6	23.9	26.7	29.5	33	36.4	41.2	45.4	50.9	56.1	62.3	68.6	75.7	83.4	93.4	102.8			
630	15.4	17	19.1	21.1	24.3	26.8	30	33.1	37.1	40.9	46.4	51.1	57.3	63.1	70	77.1	85.2	93.8	105	115.6			
710	17.3	19.1	21.6	23.9	27.3	30.1	33.9	37.4	41.8	46.1	52.2	57.5	64.6	71.2	78.9	86.9	96	105.7	118.4	130.3			
800	19.5	21.6	24.3	26.8	30.8	34	38.1	42	47.1	51.9	58.9	64.9	72.8	80.2	88.9	97.9	108.2	119.1					
900	22	24.3	27.3	30.1	34.7	38.3	42.9	47.3	53	58.4	66.2	72.9	81.9	90.2	100	110.1	121.7	134					
1000	24.4	26.9	30.3	33.4	38.5	42.5	47.7	52.6	58.9	64.9	73.6	81.1	90.9	100.1	111.2	122.4							
1200	29.3	32.3	36.4	40.1	46.2	50.9	57.2	63	70.6	77.8	88.3	97.2	109.1	120.1									
1400	34.1	37.6	42.5	46.9	53.9	59.4	66.7	73.5	82.4	90.7	103	113.4											
1600	39	43	48.5	53.5	61.6	67.9	76.2	83.9	94.2	103.7	117.7	129.6											
1800	43.9	48.4	54.6	60.2	69.3	76.3	85.8	94.5	105.9	116.6													
2000	48.8	53.8	60.6	66.8	77	84.8	95.3	104.9	117.7	129.6													

NOTES

1. Tolerances calculated from (0.1 e_{Min} + 0.1) mm rounded up to the next 0.1 mm.
2. All pressure ratings are calculated at 27°C and rounded up to nearest pressure class.
3. Considering operational problems, maximum wall thickness of pipes are considered around 130 mm.

**Table 3 Mean Outside Diameters and Out-of-roundness
(Clause 7.4)**

All dimensions in millimetres.

SN	Nominal Size DN/OD	Nominal Outside Diameter	Mean Outside Diameter		Maximum Out-of- Roundness
			d_n	($d_{em, Min}$) ($d_{em, Max}$)	
1	16	16	16	16.3	1.2
2	20	20	20	20.3	1.2
3	25	25	25	25.3	1.2
4	32	32	32	32.3	1.3
5	40	40	40	40.4	1.4
6	50	50	50	50.4	1.4
7	63	63	63	63.4	1.5
8	15	15	15	75.5	1.6
9	90	90	90	90.6	1.8
10	110	110	110	110.7	2.2
11	125	125	125	125.8	2.5
12	140	140	140	140.9	2.8
13	160	160	160	161	3.2
14	180	180	180	181.1	3.6
15	200	200	200	201.2	4
16	225	225	225	226.4	4.5
17	250	250	250	251.5	5
18	280	280	280	281.7	9.8
19	315	315	315	316.9	11.1
20	355	355	355	357.2	12.5
21	400	400	400	402.4	14
22	450	450	450	452.7	15.6
23	500	500	500	503	17.5
24	560	560	560	563.4	19.6
25	630	630	630	633.8	22.1
26	710	710	710	716.4	
27	800	800	800	807.2	
28	900	900	900	908.1	
29	1000	1000	1000	1009	
30	1200	1200	1200	1210.8	
31	1400	1400	1400	1412.6	
32	1600	1600	1600	1614.4	
33	1800	1800	1800	1816.2	
34	2000	2000	2000	2018	