



ISO 4422-2 Pipes and fittings made of unplasticized poly(vinyl chloride) (PVC-U) for water supply - Specifications

Nominal outside diameters (DN) and nominal wall thickness e_n based on an overall service (design) coefficient of $C = 2.5$																
Nominal Outside Diameter DN	Pipe Series S , SDR Series and Nominal Pressure PN Equivalents															
	S 20		S 16.7		S 16		S 12.5		S 10		S 8		S 6.3		S 4	
	SDR 41		SDR 34.4		SDR 33		SDR 26		SDR 21		SDR 17		SDR 13.6		SDR 9	
	PN 5		PN 6		PN 6.3		PN 8		PN 10		PN 12.5		PN 16		PN 25	
Nominal Wall Thickness e_n																
(mm)	Thickness (mm)	Mass kg/m	Thickness (mm)	Mass kg/m	Thickness (mm)	Mass kg/m	Thickness (mm)	Mass kg/m	Thickness (mm)	Mass kg/m	Thickness (mm)	Mass kg/m	Thickness (mm)	Mass kg/m	Thickness (mm)	Mass kg/m
10	-		-		-		-		-		-		-		1.5	0.061
12	-		-		-		-		-		-		-		1.5	0.075
16	-		-		-		-		-		-		1.5	0.104	1.8	0.122
20	-		-		-		-		-		-		1.5	0.133	2.3	0.195
25	-		-		-		-		-		1.5	0.169	1.9	0.210	2.8	0.298
32	-		-		-		-		1.6	0.233	1.9	0.274	2.4	0.340	3.6	0.490
40	-		-		1.5	0.277	1.6	0.294	1.9	0.347	2.4	0.432	3.0	0.531	4.5	0.765
50	-		-		1.6	0.371	2.0	0.460	2.4	0.547	3.0	0.675	3.7	0.820	5.6	1.190
63	1.6	0.470	1.9	0.556	2.0	0.584	2.5	0.724	3.0	0.862	3.8	1.077	4.7	1.312	7.1	1.900
75	1.9	0.665	2.2	0.767	2.3	0.801	2.9	1.001	3.6	1.231	4.5	1.519	5.6	1.861	8.4	2.679
90	2.2	0.925	2.7	1.129	2.8	1.169	3.5	1.450	4.3	1.764	5.4	2.187	6.7	2.672	10.1	3.864

To apply an overall design (service) coefficient C of 2.5 for pipes with normal diameters in this table, the next higher pressure rating, PN , shall be selected, e.g an S10 series pipes rated at PN 12.5 will be selected for PN10 applications when a C of 2.5 is required.



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Nominal outside diameters (DN) and nominal wall thickness en based on an overall service (design) coefficient of C = 2.0														
Nominal Outside Diameter	Pipe Series S , SDR Series and Nominal Pressure PN Equivalents													
	S 20		S 16		S 12.5		S 10		S 8		S 6.3		S 5	
	SDR 41		SDR 33		SDR 21		SDR 21		SDR 17		SDR 13.6		SDR 11	
	PN 6.3		PN 8		PN 10		PN 12.5		PN 16		PN 20		PN 25	
DN	Nominal Wall Thickness en													
(mm)	Thickness (mm)	Mass kg/m	Thickness (mm)	Mass kg/m	Thickness (mm)	Mass kg/m	Thickness (mm)	Mass kg/m	Thickness (mm)	Mass kg/m	Thickness (mm)	Mass kg/m	Thickness (mm)	Mass kg/m
110	2.7	1.387	3.4	1.735	4.2	2.128	5.3	2.657	6.6	3.268	8.1	3.952	10	4.788
125	3.1	1.809	3.9	2.261	4.8	2.762	6	3.419	7.4	4.167	9.2	5.101	11.4	6.201
140	3.5	2.287	4.3	2.794	5.4	3.48	6.7	4.276	8.3	5.234	10.3	6.396	12.7	7.741
160	4	2.988	4.9	3.639	6.2	4.566	7.7	5.615	9.5	6.846	11.8	8.373	14.6	10.164
180	4.4	3.699	5.5	4.595	6.9	5.719	8.6	7.058	10.7	8.674	13.3	10.616	16.4	12.846
200	4.9	4.577	6.2	5.753	7.7	7.09	9.6	8.752	11.9	10.717	14.7	13.042	18.2	15.842
225	5.5	5.78	6.9	7.205	8.6	8.911	10.8	11.076	13.4	13.576	16.6	16.564	-	-
250	6.2	7.237	7.7	8.933	9.6	11.05	11.9	13.566	14.8	16.667	18.4	20.404	-	-
280	6.9	9.022	8.6	11.175	10.7	13.797	13.4	17.105	16.6	20.935	20.6	25.585	-	-
315	7.7	11.329	9.7	14.179	12.1	17.548	15	21.546	18.7	26.529	23.2	32.414	-	-
355	8.7	14.425	10.9	17.958	13.6	22.231	16.9	27.358	21.1	33.733	26.1	41.102	-	-
400	9.8	18.309	12.3	22.833	15.3	28.182	19.1	34.834	23.7	42.701	29.4	52.168	-	-
450	11	23.121	13.8	28.822	17.2	35.643	21.5	44.111	26.7	54.115	33.1	66.071	-	-
500	12.3	28.722	15.3	35.507	19.1	43.979	23.9	54.482	29.7	66.878	36.8	81.615	-	-
560	13.7	35.835	17.2	44.702	21.4	55.187	26.7	68.177	-	-	-	-	-	-
630	15.4	45.318	19.3	56.434	24.1	69.915	30	86.184	-	-	-	-	-	-
710	17.4	57.701	21.8	71.833	27.2	88.924	-	-	-	-	-	-	-	-
800	19.6	73.236	24.5	90.971	30.6	112.727	-	-	-	-	-	-	-	-
900	22	92.485	27.6	115.287	-	-	-	-	-	-	-	-	-	-
1000	24.5	114.432	30.6	142.03	-	-	-	-	-	-	-	-	-	-

To apply an overall design (service) coefficient C of 2.5 for pipes with normal diameters in this table, the next higher pressure rating, PN , shall be selected, e.g an S10 series pipes rated at PN 12.5 will be selected for PN10 applications when a C of 2.5 is required.