

ISO 16422 Pipes and joints made of oriented unplasticized poly(vinyl chloride) (PVC-O) for the conveyance of water under pressure - Specifications

PVC-O Pipes Specification									
Material Classification	Nominal Pressure PN(C=1.6), MPa								
400.0	1.0		1.25		1.6		2.0		2.5
450.0		1.25		1.6		2.0		2.5	
500.0	1.25		1.6		2.0		2.5		
Pipe Series S and Standard Size Ratio SDR									
S	25.0	22.4	22.0	18.0	16.0	14.0	12.5	11.2	10.0
SDR	51.0	45.8	41.0	37.0	33.0	29.0	26.0	23.4	21.0
dn(mm)	Nominal wall thickness e_n , (mm)								
63			1.6	1.8	2.0	2.2	2.5	2.7	3.0
75	1.5	1.7	1.9	2.1	2.3	2.6	2.9	3.2	3.6
90	1.8	2.0	2.2	2.5	2.8	3.1	3.5	3.9	4.3
110	2.2	2.4	2.7	3.1	3.4	3.8	4.2	4.7	5.3
(125)	2.5	2.8	3.1	3.5	3.9	4.3	4.8	5.1	6.0
(140)	2.8	3.1	3.5	3.9	4.3	4.8	5.4	6.0	6.7
160	3.2	3.5	4.0	4.4	4.9	5.5	6.2	6.9	7.7
(180)	3.6	4.0	4.4	5.0	5.5	6.2	6.9	7.7	8.6
200	3.9	4.4	4.9	5.5	6.2	6.9	7.7	8.6	9.6
225	4.4	5.0	5.5	6.2	6.9	7.7	8.6	9.6	10.8
(250)	4.9	5.5	6.2	6.9	7.7	8.6	9.6	10.7	11.9
(280)	5.5	6.2	6.9	7.7	8.6	9.7	10.7	12.0	13.4
315	6.2	6.9	7.7	8.7	9.7	10.8	12.1	13.5	15.0
(355)	7.0	7.8	8.7	9.8	10.9	12.2	13.6	15.2	16.9
400	7.9	8.8	9.8	11.0	12.3	13.7	15.3	17.1	19.1
(450)	8.8	9.9	11.0	12.3	13.8	15.4	17.2	19.2	21.5
500	9.8	11.1	12.3	13.7	15.3	17.1	19.1	21.4	23.9
(560)	11.0	12.3	13.7	15.4	17.2	19.2	21.4	23.9	26.7
630	12.3	13.8	15.4	17.3	19.3	21.6	24.1	26.9	30.0

1. The theoretical calculation of ring stiffness of SDR51 and SDR45. 8 series pipes generally does not exceed 4kN/m^2 . Measures should be taken during buried construction to avoid pipe buckling instability.
2. The color of the pipe is generally blue.
3. Unusual specifications are in brackets.