



NEMSU HOLDINGS (PVT) LTD

QUALITY ASSURANCE DEPARTMENT

PRODUCT SPECIFICATION

Revision no

Amendment no

Date of Issue

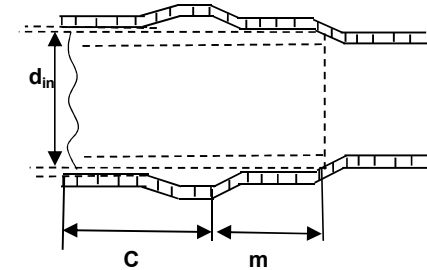
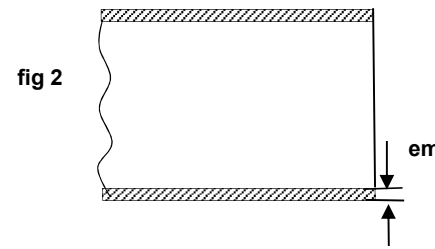
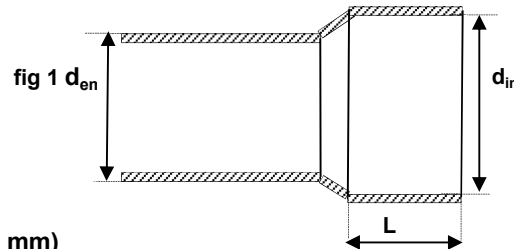
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NAME OF THE PRODUCT : uPVC Pipes (110mm to 315mm)

BRAND : NEMSU

SPECIFIC FIELD OF APPLICATION : For Portable Cold water under pressure

STANDARD : SLS 147- 2013



01. Dimensions (All in mm)

Nominal Diameter d_n	Mean OD d_{em}		Out of Roundness		For socketed pipes									Wall Thickness e_m									
					Solvent cement sockets(fig 1)				Elastomeric ring seal joints sockets (fig 2)														
			S-12.5 to S-5	S-16	Mean inside diameter of socket d_{in}	Maximum out of roundness d₀	Minimu m socket length L_{min}	Minimu m mean inside diameter of socket d_{in}	Maximum out of roundness for d		Minimum depth of engagement m_{min}	Length of socket entrance and sealing area L_s	S-16		S-12.5		S-10		S-8		S-6.3		
													SDR 33		SDR 26		SDR 21		SDR 17		SDR 13.6		
			PN _T 7 to PN _T 18	PN _T 7					PN _T 7				PN _T 9		PN _T 11		PN _T 14		PN _T 18				
Min	Max	Min			Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max						
110	110.0	110.4	1.4	2.2	110.1	110.4	0.7	61.0	110.5	1.7	1.1	64.0	40.0	3.4	4.0	4.2	4.9	5.3	6.1	6.6	7.5	8.1	9.2
160	160.0	160.5	2.0	3.2	160.2	160.5	1.0	86.0	160.6	2.4	1.5	71.0	48.0	4.9	5.6	6.2	7.1	7.7	8.7	9.5	10.7	11.8	13.2
225	225.0	225.7	2.7	4.5	225.3	225.7	1.4	118.5	225.8	3.4	2.1	78.0	58.0	6.9	7.8	8.6	9.7	10.8	12.1	13.4	15.0	16.6	18.5
280	280.0	280.9	3.4	6.8	280.3	280.9	1.7	146.0	281.0	5.1	2.6	85.0	67.0	8.6	9.7	10.7	12.0	13.4	15.0	16.6	18.5	20.6	22.9
315	315.0	316.0	3.8	7.6	315.4	316.0	1.9	163.5	316.1	5.7	2.9	88.0	72.0	9.7	10.9	12.1	13.6	15.0	16.8	18.7	20.8	23.2	25.8

Note : The preferred nominal length would be 4m or 6m which does not include the depth of socket.

S - Dimensionless number for pipe designation

PN_T : Nominal Pressure at 30°C Temperature.

SDR - Standard Diameter Ratio

Prepared by : Q.A Executive

Approved by : Q.A Manager



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Specification

02. Material

uPVC

03. General Characteristics

Appearance

Free from any defects

Colour

Grey or Blue for water supply, Grey or Brown for drainage and sewerage under pressure

Marking

Logo, uPVC, Diameter, Thickness Type, w/p, Batch Code

04. Physical & Chemical Properties

Vicat Softening Temperature

80°C (min)

Longitudinal Reversion

±5%

Resistance to Acetone

Should not Delamination or Disintegration

Material Density

1350kgm⁻³ - 1460kgm⁻³

Tensile Properties

45Mpa (min)

Elongation at Break

80% (min)

Effect of Materials on Water Quality

Lead Content should not higher than 0.01mg/l

05. Mechanical Properties

Hydrostatic Strength at 20°C

Should not Burst

Resistance to Impact at 0°C

Should not Crack, shall have a true impact rate of not more than 10%

Prepared by : Q.A Executive

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Approved by : Q.A Manager

S. Wickramanath