Pressure & Non-Pressure Pipes are supplying in accordance with IS:4985 covering a complete range from 20 mm to 315 mm. They are available in pressure rating 2.5 kg/cm^2, 4 kg/cm^2, 6kg/cm^2 & 10kg/cm^2 as defined in IS: 4985. The pipes are provided with plain socket and suitable for solvent cement jointing.

Their main application is in agriculture for water supply, drip irrigation & sprinkler lines, etc. as well as for drinking water distribution. However, these can also be used in cable ducting, ventilation pipe lines & slurry lines, etc.

They are available in light grey colour with nominal length of 6 mtrs.

Dimensions (As per IS : 4985 - 2000)

(All dimensions are in mm)

Nominal Outside Diameter (Nominal Size)	Mean Outside Diameter		Outside Diameter at Any point		Wall Thickness												Mean Socket Internal Diameter of Main Point of Socket Length	
					Class 1 0.25 MPa 2.5 Kg/cm^2		Class 2 0.40 MPa 4.0 Kg/cm^2		Class 3 0.60 MPa 6.0 Kg/cm^2		Class 4 0.80 MPa 8.0 Kg/cm^2		Class 5 1.00 MPa 10.0 Kg/cm^2		Class 6 1.25 MPa 12.5 Kg/cm^2			
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
20	20.0	20.3	19.5	20.5	-	-	-	-	-	-	-	-	1.1	1.5	1.4	1.8	20.1	20.3
25	25.0	25.0	24.5	25.5	-	-	-	-	-	-	1.2	1.6	1.4	1.8	1.7	2.1	25.1	25.3
32	32.0	32.3	31.5	32.5	-	-	-	-	-	-	1.5	1.9	1.8	2.2	2.2	2.7	32.1	32.3
40	40.0	40.3	39.5	40.5	-	-	-	-	1.4	1.8	1.8	2.2	2.2	2.7	2.8	3.3	40.1	40.3
50	50.0	50.3	49.4	50.6	-	-	-	-	1.7	2.1	2.3	2.8	2.8	3.3	3.4	4.0	50.1	50.3
63	63.0	63.3	62.2	63.8	-	-	1.5	1.9	2.2	2.7	2.8	3.3	3.5	4.1	4.3	5.0	63.1	63.3
75	75.0	75.3	74.1	75.9	-	-	1.8	2.2	2.6	3.1	3.4	4.0	4.2	4.9	5.1	5.9	75.1	75.3
90	90.0	90.3	88.9	91.1	1.3	1.7	2.1	2.6	3.1	3.7	4.0	4.6	5.0	5.7	6.1	7.1	90.1	90.3
110	110.0	110.4	108.6	111.4	1.6	2.0	2.5	3.0	3.7	4.3	4.9	5.6	6.1	7.1	7.5	8.7	110.1	110.4
125	125.0	125.4	123.5	126.5	1.8	2.2	2.9	3.4	4.3	5.0	5.6	6.4	6.9	8.0	8.5	9.8	125.1	125.4
140	140.0	140.5	138.3	141.7	2.0	2.4	3.2	3.8	4.8	5.5	6.3	7.3	7.7	8.9	9.5	11.0	140.2	140.5
160	160.0	160.5	158.0	162.0	2.3	2.8	3.7	4.3	5.4	6.2	7.2	8.3	8.8	10.2	10.9	12.6	160.2	160.5
180	180.0	180.6	177.8	182.2	2.6	3.1	4.2	4.9	6.1	7.1	8.0	9.2	9.9	11.4	12.2	14.1	180.2	180.5
200	200.0	200.6	197.6	202.4	2.9	3.4	4.6	5.3	6.8	7.9	8.9	10.3	11.0	12.7	13.6	15.7	200.3	200.6
225	225.0	225.7	222.3	227.7	3.3	3.9	5.2	6.0	7.6	8.8	10.0	11.5	12.4	14.3	15.3	17.6	225.4	225.7
250	250.0	250.8	247.0	253.0	3.6	4.2	5.7	6.5	8.5	9.8	11.2	12.9	13.8	15.9	17.0	19.6	250.4	250.8
280	280.0	280.9	276.6	283.4	4.1	4.8	6.4	7.4	9.5	11.0	12.5	14.4	15.4	17.8	19.0	21.9	280.4	280.9
315	315.0	316.0	311.2	318.8	4.6	5.3	7.2	8.3	10.7	12.4	14.0	16.1	17.3	19.9	21.4	24.7	315.4	316.0

Properties of PVC

Mechanical

Tensile Strength	: 415-525 kg/cm^2
Compression Strength	: 550-910 kg/cm^2
Flexural Strength	: 680 - 1100 kg/cm^2
Izod Impact Strength	: 4 - 5 kg-cm/cm^2
Shore Hardness	: D65 - 85

Thermal

Coefficient of Linear Expansion	: 0.08 mm/M°C
Vicat Softening Point	: >78°C
Max. Operating Temperature	: 60°C

Physical

Specific Gravity	: 1.40 - 1.45
Water Absorption	: < 4mg/cm^3

Hazen - William's Flow Co-efficient Comparison

Pipe Material	PVC	A.C.	G.I	C.I.
Flow Coefficient	150	130	110	100

Standards, Quality Control & Testing

The Manufacturing and testing in done for
Pipes - In accordance with IS : 4985 - 2000

All the above pipes, except Non-pressure pipes are tested for potable water supplies in accordance with their relevant standards and as per the test methods given in IS : 12235.