

Vinyl uPVC Pressure Pipes (As per IS: 4985-2000)



DIMENSIONS OF Vinyl PVC PIPES (As per IS: 4985-2000) (All Dimensions in mm)

| Nominal Outside Diameter (Nominal size) | Mean Outside Diameter | | WALL THICKNESS | | | | | | | | | | | |
|---|-----------------------|-------|--------------------|-----|--------------------|------|--------------------|------|--------------------|------|-------------------|------|--------------------|------|
| | | | Class1 0.25 Mpa | | Class2 0.04 Mpa | | Class3 0.06 Mpa | | Class4 0.08 Mpa | | Class5 1.0 Mpa | | Class6 1.25 Mpa | |
| | | | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| 20 | 20.0 | 20.3 | - | - | - | - | - | - | - | - | 1.1 | 1.5 | 1.4 | 1.8 |
| 25 | 25.0 | 25.3 | - | - | - | - | - | - | 1.2 | 1.6 | 1.4 | 1.8 | 1.7 | 2.1 |
| 32 | 32.0 | 32.3 | - | - | - | - | - | - | 1.5 | 1.9 | 1.8 | 2.2 | 2.2 | 2.7 |
| 40 | 40.0 | 40.3 | - | - | - | - | 1.4 | 1.8 | 1.8 | 2.2 | 2.2 | 2.7 | 2.8 | 3.3 |
| 50 | 50.0 | 50.3 | - | - | - | - | 1.7 | 2.1 | 2.3 | 2.8 | 2.8 | 3.3 | 3.4 | 4.0 |
| 63 | 63.0 | 63.3 | - | - | 1.5 | 1.9 | 2.2 | 2.7 | 2.8 | 3.3 | 3.5 | 4.1 | 4.3 | 5.0 |
| 75 | 75.0 | 75.3 | - | - | 1.8 | 2.2 | 2.6 | 3.1 | 3.4 | 4.0 | 4.2 | 4.9 | 5.1 | 5.9 |
| 90 | 90.0 | 90.3 | 1.3 | 1.7 | 2.1 | 2.6 | 3.1 | 3.7 | 4.0 | 4.6 | 5.0 | 5.7 | 6.1 | 7.1 |
| 110 | 110.0 | 110.4 | 1.6 | 2.0 | 2.5 | 3.0 | 3.7 | 4.3 | 4.9 | 5.6 | 6.1 | 7.1 | 7.5 | 8.7 |
| 125 | 125.0 | 125.4 | 1.8 | 2.2 | 2.9 | 3.4 | 4.3 | 5.0 | 5.6 | 6.4 | 6.9 | 8.0 | 8.5 | 9.8 |
| 140 | 140.0 | 140.5 | 2.0 | 2.4 | 3.2 | 3.8 | 4.8 | 5.5 | 6.3 | 7.3 | 7.7 | 8.9 | 9.5 | 11.0 |
| 160 | 160.0 | 160.5 | 2.3 | 2.8 | 3.7 | 4.3 | 5.4 | 6.2 | 7.2 | 8.3 | 8.8 | 10.2 | 10.9 | 12.6 |
| 180 | 180.0 | 180.6 | 2.6 | 3.1 | 4.2 | 4.9 | 6.1 | 7.1 | 8.0 | 9.2 | 9.9 | 11.4 | 12.2 | 14.1 |
| 200 | 200.0 | 200.6 | 2.9 | 3.4 | 4.6 | 5.3 | 6.8 | 7.9 | 8.9 | 10.3 | 11.0 | 12.7 | 13.6 | 15.7 |
| 225 | 225.0 | 225.7 | 3.3 | 3.9 | 5.2 | 6.0 | 7.6 | 8.8 | 10.0 | 11.5 | 12.4 | 14.3 | 15.3 | 17.6 |
| 250 | 250.0 | 250.8 | 3.6 | 4.2 | 5.7 | 6.5 | 8.5 | 9.8 | 11.2 | 12.9 | 13.8 | 15.9 | 17.0 | 19.6 |
| 280 | 280.0 | 280.9 | 4.1 | 4.8 | 6.4 | 7.4 | 9.5 | 11.0 | 12.5 | 14.4 | 15.4 | 17.8 | 19.0 | 21.9 |
| 315 | 315.0 | 316.0 | 4.6 | 5.3 | 7.2 | 8.3 | 10.7 | 12.4 | 14.0 | 16.1 | 17.3 | 19.9 | 21.4 | 24.7 |
| 355 | 355.0 | 356.1 | 5.1 | 5.9 | 8.1 | 9.4 | 12.0 | 13.8 | 15.8 | 18.2 | 19.6 | 22.6 | 24.1 | 27.8 |
| 400 | 400.0 | 401.2 | 5.8 | 6.7 | 9.1 | 10.5 | 13.5 | 15.6 | 17.8 | 20.5 | 22.0 | 25.3 | 27.2 | 31.3 |

Vinyl uPVC Pipes Pressure & Non Pressure - are manufactured in accordance with IS:4985 covering a complete range from 20 mm to 315 mm. They are available in pressure ratings of 2.5, 4, 6, 8 & 10 kgf/sq. cm as defined in IS:4985. The pipes are provided with plain socket and suitable for solvent cement jointing and Bell end on request.

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

ADVANTAGE

- Being non toxic, it is safe for drinking water
- Cost effective due to its long lasting properties
- Easy to transport and install due to its light weight
- Very economical as it is free from rust & scale formations
- Low friction ensures lower pumping cost resulting in energy saving
- Does not require any coating or painting and has long lasting durability
- Its seamless, leak-proof and corrosion resistant nature helps to reduce chemical and industrial pollution

APPLICATION

- Air vent system for toxic gases
- Agricultural irrigation & bore wells
- Chemical, sugar and dairy industries
- Rural & urban water distribution systems
- Biogas (Gobargas), natural gas and oil distribution
- Protective covering for power and communication cables

RANGE

- Class I to Class V.
- Standard Length 6 meter.
- Size (OD) 20 mm to 315 mm
- Pressure Rating 2.5 Kgf/Cm2 to 10 Kgf/Cm2

Note 1 - The table is based on metric series of pipe dimensions given in ISO 161/1 (1978) in respect of diameters.

Note 2 - The wall thickness of pipe is based on a safe working stress of 8.6 Mpa at 27 °C. The working pressure gets reduced at sustained higher temperatures. Occasional rise in temperature, as in summer, with concurrent corresponding reduction in temperature during nights has no deleterious effect on the working pressure of the pipes considering the total life of pipe.

Vinyl uPVC Pipes Fittings

