

## Rigid PVC Pressure Pipes and Fittings

*...The most comprehensive range with a wide spectrum of fittings*

IS:4985-2000



CM/L 1235335

The Supreme is the acknowledged leader of India's plastic industry. With a portfolio of over 7500 diverse products, the most comprehensive range in the industry, we cater to almost every conceivable need and application of the customer in piping. While helping the country transit from conventional to modern piping, we have several path breaking products to our credit making us a trend setter in the industry.

Supreme uPVC pressure piping system with a wide spectrum of pipes and fittings in different sizes and pressure classes is an ideal solution for water supply and irrigation. Supreme pressure piping system has become the prime choice of farmers, water supply bodies and different government institutions who have successfully replaced the conventional piping with our products.

### Unique features

- Odorless and hygienic
- High corrosion resistance
- High chemical resistance
- Smooth bore
- Self extinguishing quality
- Maintenance free
- Long lasting
- Economical



## The system

Supreme offers an exhaustive range of uPVC pressure pipes and fittings. Pressure pipes are manufactured as per IS 4985:2000 standards and are available in 20 to 450mm sizes in different pressure classes. Pipes with both types of joints, i.e., solvent cement type and rubber seal type are available. Varieties of moulded fittings and wide range of handmade fittings are also available. Moulded fittings are manufactured as per IS:7834 and fabricated fittings are manufactured as per IS:10124 and company standards. These pipes and fittings are used for a variety of applications like, irrigation, water supply, industrial process lines, swimming pools, firefighting mains, etc. These pipes are superior to CI, DI or RCC pipes in terms of being light in weight, easier and quicker installation, excellent corrosion and chemical resistance properties, high flow rates, long life and economy. These pipes have the approval of MJP.

**Handling instructions:** Pipes should be kept on an even surface while storing. They should be properly supported and should not be stacked for heights more than 1.5m for longer durations. While laying big pipelines provision should be made for expansion joints, air vents and proper anchorage.

**Pipes or fittings should not be cleaned with solvent cement.** Quality of solvent cement plays an important role and hence it is recommended to use good quality solvent cement only. For large diameter and higher class pipes (6 Kgf/cm<sup>2</sup> and above) always use heavy duty solvent cement. Very old, hard, semi-fluid solvent cement should not be used.

For better performance pipes should be installed as per the guidelines given in our installation guide.

## Joining instructions:

- 1 Cut the pipe as square as possible. Ensure that fitting of the pipe with socket of fitting is correct.
- 2 Total length of socket should be marked on pipe. In most cases, the pipe inserted should be up to the marked line and in no case should it be less than 2/3<sup>rd</sup> of pipe end.
- 3 The pipe and the socket should be clean and dry. Dust, oil, water, grease etc. should be wiped off with dry cloth or a cleaner from the surfaces to be coated with solvent cement
- 4 Roughen the outer surface of the pipe and the inner surface of the socket using sand paper or piece of hacksaw blade up to the entry mark. Stir solvent cement thoroughly.
- 5 Apply a thick coat of solvent cement using a flat clean brush evenly on the inner surface of the socket for full length of insertion and then on the outer surface of the pipe end up to the marked line.
- 6 After application of solvent cement, insert the pipe within one minute of application into the socket. Hold the joint for a few seconds and ensure that the pipe does not come out the fitting. Wipe off extra cement. Let it dry. Within 24 hours, your Supreme rigid PVC pipes are ready for use.

In case of big pipeline projects, it is recommended to refer to our installation guide.

**Dimensions of uPVC Pressure Pipes as per IS 4985:2000**

Nominal outside diameter (mm)	Tolerance on outside diameter	Wall thickness (mm)													
		Class 1(PN) 2.5 kgf/cm <sup>2</sup>		Class 2(PN) 4 kgf/cm <sup>2</sup>		Class 3(PN) 6 kgf/cm <sup>2</sup>		Class 4(PN) 8 kgf/cm <sup>2</sup>		Class 5(PN) 10 kgf/cm <sup>2</sup>		Class 6(PN) 12.5 kgf/cm <sup>2</sup>		Plumbing pipes	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
20	+ 0.3	-	-	-	-	-	-	-	-	1.1	1.5	1.4	1.8	2.8	3.3
25	+ 0.3	-	-	-	-	-	-	1.2	1.6	1.4	1.8	1.7	2.1	2.9	3.4
32	+ 0.3	-	-	-	-	-	-	1.5	1.9	1.8	2.2	2.2	2.7	3.4	3.9
40	+ 0.3	-	-	-	-	1.4	1.8	1.8	2.2	2.2	2.7	2.8	3.3	3.6	4.2
50	+ 0.3	-	-	-	-	1.7	2.1	2.3	2.8	2.8	3.3	3.4	4.0	3.7	4.3
63	+ 0.3	-	-	1.5	1.9	2.2	2.7	2.8	3.3	3.5	4.1	4.3	5.0		
75	+ 0.3	-	-	1.8	2.2	2.6	3.1	3.4	4.0	4.2	4.9	5.1	5.9		
90	+ 0.3	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	+ 0.4	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	+ 0.4	-	-	2.9	3.4	4.3	5.0	-	-	-	-	-	-		
140	+ 0.5	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	+ 0.5	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	+ 0.6	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	+ 0.6	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	+ 0.7	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	+ 0.8	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	+ 0.9	4.1	4.8	6.4	7.4	9.5	11.0	12.5	14.4	15.4	17.8	-	-		
315	+ 1.0	4.6	5.3	7.2	8.3	10.7	12.4	14.0	16.1	17.3	19.9	-	-		
355	+ 1.1	5.1	5.9	8.1	9.4	12.0	13.8	15.8	18.2	-	-	-	-		
400	+ 1.2	5.8	6.7	9.1	10.5	13.5	15.6	-	-	-	-	-	-		
450	+ 1.4	6.5	7.5	10.3	11.9	15.2	17.5	-	-	-	-	-	-		

Note: • Pipes are offered in Light Grey (LG) and/or Dark Grey (DG) colour in standard lengths of 6m. Pipes are offered either plain or socketed, based on diameter and class of pipe. • Ringtight pipes with integral rubber ring socket (Elastomeric joint) are available in 63 to 315mm in 4, 6 and 10kg/cm<sup>2</sup> pressure class. • Non standard wall thickness, lengths and colour can also be offered, if desired. • Prefix "PN" indicates Nominal Pressure i.e. working pressure.

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