

# uPVC High Pressure ASTM Threaded Pipes

*A Supreme way for lifelong supply of Pure and Safe drinking water*

The Supreme Industries Ltd., is an acknowledged leader of India's plastic industry. It is credited with pioneering several path breaking products and has valuable experience in providing innovative and cost effective piping solution. Company's objective is to meet the growing needs of its clientele in water, waste management and infrastructure sector through specially developed high performance range of piping products. The innovative product portfolio offered by Supreme is extensive in range and application and comprises a variety of pipes and a vast spectrum of fittings totaling around 7000 diverse products. Together these constitute the most comprehensive range in the industry that caters almost every conceivable need and application. Company has been a torch bearer in transition from conventional products to advance plastics piping products in the country and has been termed as "Trend Setters of Plastic Piping Products".

Supreme threaded pipes are manufactured as per ASTM standards. They are one of the many products that are offered by the company. These pipes have several features that are par excellence.



## FEATURES AND BENEFITS :

- ▶ Stronger, resilient and longer lasting
- ▶ Excellent corrosion and chemical resistance
- ▶ Light weight, easy and fast installation
- ▶ Hygienic and safe for carrying drinking water
- ▶ Optimum flow rates
- ▶ Unaffected by termites, fungus or bacteria
- ▶ No algae formation
- ▶ 100% Leak proof joints
- ▶ No root penetration
- ▶ No galvanic action with CP and other fittings
- ▶ Bad conductor of electricity
- ▶ Available in SCH-40, SCH-80, SCH-120
- ▶ Economical, low operating and maintenance cost
- ▶ Well accepted by the users in India and abroad

These pipes are manufactured as per ASTM D 1785 standard and are available in SCH 40,80 and 120 pressure class. These pipes are generally used for plumbing, water supply and for lowering jet pumps in the borewells. These pipes are not recommended to use with aqua gold fittings. ASTM threaded pipes are 40-50% cheaper to G.I. pipes and offer all the advantages of aqua gold pipes. Dimensions and pressure ratings of these pipes are given in the table below.

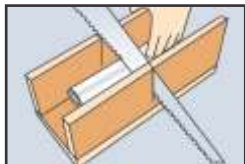
**Dimensions and water pressure rating at 23°C for pipes as per ASTM D-1785 and threads as per IS-554  
(PVC compound grade equivalent to PVC 1120/2120)**

| Nominal Size |      | Outside Diameter (D) in mm | Schedule 40              |                  |                     | Schedule 80              |                  |                     | Schedule 120             |                  |     |
|--------------|------|----------------------------|--------------------------|------------------|---------------------|--------------------------|------------------|---------------------|--------------------------|------------------|-----|
|              |      |                            | Wall Thickness (t) in mm | Working Pressure |                     | Wall Thickness (t) in mm | Working Pressure |                     | Wall Thickness (t) in mm | Working Pressure |     |
| mm           | inch | Kgf/cm <sup>2</sup>        |                          | psi              | Kgf/cm <sup>2</sup> |                          | psi              | Kgf/cm <sup>2</sup> |                          | psi              |     |
| 15           | ½    | 21.34 ± 0.10               | 2.77 + 0.51              | 20.7             | 300                 | 3.73 + 0.51              | 29.0             | 420                 | 4.32 + 0.51              | 35.2             | 510 |
| 20           | ¾    | 26.67 ± 0.10               | 2.87 + 0.51              | 16.5             | 240                 | 3.91 + 0.51              | 23.4             | 340                 | 4.32 + 0.51              | 26.9             | 390 |
| 25           | 1    | 33.40 ± 0.13               | 3.38 + 0.51              | 15.5             | 225                 | 4.55 + 0.53              | 22.1             | 320                 | 5.08 + 0.61              | 24.8             | 360 |
| 32           | 1¼   | 42.16 ± 0.13               | 3.56 + 0.51              | 12.7             | 185                 | 4.85 + 0.58              | 17.9             | 260                 | 5.46 + 0.66              | 20.7             | 300 |
| 40           | 1½   | 48.26 ± 0.15               | 3.68 + 0.51              | 11.4             | 165                 | 5.08 + 0.61              | 16.5             | 240                 | 5.72 + 0.68              | 18.6             | 270 |
| 50           | 2    | 60.32 ± 0.15               | 3.91 + 0.51              | 09.6             | 140                 | 5.54 + 0.66              | 13.8             | 200                 | 6.35 + 0.76              | 16.5             | 240 |
| #65          | 2½   | 75.20 ± 0.10               | 5.16 + 0.61              | 10.3             | 150                 | 7.01 + 0.48              | 14.5             | 210                 | 7.62 + 0.91              | 15.9             | 230 |
| 80           | 3    | 88.90 ± 0.20               | 5.49 + 0.66              | 08.9             | 130                 | 7.62 + 0.91              | 13.1             | 190                 | 8.89 + 1.07              | 15.2             | 220 |
| 100          | 4    | 114.30 ± 0.23              | 6.02 + 0.71              | 07.6             | 110                 | 8.56 + 1.02              | 11.0             | 160                 | 11.10 + 1.32             | 15.2             | 220 |
| 125          | 5    | 141.30 ± 0.25              | 6.55 + 0.79              | 06.5             | 90                  | 9.52 + 1.14              | 09.7             | 140                 | 12.70 + 1.52             | 13.7             | 200 |
| 150          | 6    | 168.28 ± 0.28              | 7.11 + 0.86              | 06.5             | 90                  | 10.97 + 1.32             | 09.7             | 140                 | 14.27 + 1.70             | 13.1             | 190 |
| 200          | 8    | 219.08 ± 0.38              | 8.18 + 0.99              | 05.5             | 80                  | 12.70 + 1.52             | 08.3             | 120                 | -                        | -                | -   |

1 Mpa = 10 Kgf/cm<sup>2</sup>, 1 Kgf/cm<sup>2</sup> = 14.20 psi

Note : Pressure rating of the pipes in threaded conditions reduces to half compared to unthreaded (aqua gold) pipes. These pipes are not recommended for solvent weld joints. #65mm (2½") pipe dimensions are as per company standard.

**Joining Instructions**



- While threading at the site, ensure square cut of the pipe ends, insert proper size wooden plug in the pipe end and then carry out threading. Adding cold water while threading improves the quality of threads.
- Use of cushion between jaws of the pipe wrench while holding the pipe is advisable to avoid damage to the pipe. It is recommended to use strap wrench for best results.
- The joint should be clean and threads should be made in one pass.
- For sealing of joints, best quality teflon tape must be used. This will avoid the damage to threads and avoid leakage.
- The joint should be made with hand tightening of the fitting over the pipe end covered with proper layer of teflon tape.
- Avoid over tightening of the joint.
- All the pipe lines should be supported approximately at a distance of 0.8 mtrs (2½') for horizontal service and 1.2 mtrs (4') for vertical service with pipe clips or CI brackets with nut bolts.
- When the system is to be concealed, it should be pressure tested before concealment.
- This system is not recommended for geyser outlets and hot water supply.
- In case of longer runs, provide air valves at all higher points of ground and the sizes of the valve should be ¼<sup>th</sup> of the main line.

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