

UPVC PRESSURE PIPES & PRESSURE FITTINGS (AGRI PIPES) (SOLVENT WELD)



We are the Distributors & Consignment Stockist for “SUPREME” & “MFLEX” brand UPVC Pressure Pipes confirming to IS: 4985 in various pressure ratings available from 20mm to 450mm Dia. The UPVC pressure pipes have the following advantages.

ADVANTAGES & BENEFITS:

- High Flow rates.
- Long life & economy.
- Light weight.
- Easy & fast installation.
- Excellent corrosion & chemical resistance.

These UPVC pressure pipes are used for variety of applications like Agriculture, Irrigation, Water supply, Industrial process lines, Swimming pools & Fire fighting mains.

UPVC pressure fittings (Moulded fittings) confirm to IS: 7834 are available in pressure rating of 4kg/cm², 6kg/cm² & 10kg/cm² from 20mm to 200mm Dia.

|  | Size | Available Pressure Class (PN) |  | Size | Available Pressure Class (PN) |  | Size | Available Pressure Class (PN) |  | Size | Available Pressure Class (PN) |
|---|------|-------------------------------|--|--------|-------------------------------|--|---------|-------------------------------|---|-------|-------------------------------|
| | 20 | 10 | | 20x½" | 10 | | 20x½" | 10 | | 63 | 6 |
| | 25 | 10 | | 25x½" | 10 | | 25x¾" | 10, 16 | | 75 | 6 |
| | 32 | 10 | | 50x1½" | 16 | | 32x1" | 10, 16 | | 90 | 6 |
| | 40 | 6 | | 63x2" | 6, 16 | | 40x1¼" | 6, 16 | | 110 | 6 |
| | 50 | 6, 16 | | 75x2½" | 6 | | 50x1½" | 6, 16 | | 140 | 6 |
| | 63 | 1, 6, 16 | | 90x3" | 6 | | 63x2" | 6, 16 | | 160 | 6 |
| | 75 | 1, 6, 16 | | | | | 75x2½" | 6, 16 | | 200 | 6 |
| | 90 | 1, 6, 16 | | | | | 90x3" | 6, 16 | | | |
| | 110 | 1, 6, 16 | | | | | 110x4" | 6, 16 | | | |
| | 160 | 6 | | | | | 160x6" | 6 | | | |
|  | 20 | 3, 10 |  | 20 | 3, 10 |  | 75x2½" | 6 |  | 20 | 10 |
| | 25 | 3, 10, 16 | | 25 | 3, 10, 16 | | 90x2" | 6 | | 25 | 10 |
| | 32 | 3, 10, 16 | | 32 | 3, 10, 16 | | 90x2½" | 6 | | 32 | 10 |
| | 40 | 3, 6, 16 | | 40 | 3, 6, 16 | | | | | 40 | 6 |
| | 50 | 3, 4, 6, 16 | | 50 | 3, 4, 6, 16 | | | | | 50 | 6 |
| | 63 | 1, 2, 3, 4, 6, 16 | | 63 | 1, 2, 3, 4, 6, 16 | | | | | 63 | 4, 6 |
| | 75 | 1, 2, 3, 4, 6, 16 | | 75 | 1, 2, 3, 4, 6, 16 | | | | | 75 | 4, 6 |
| | 90 | 1, 2, 3, 4, 6, 16 | | 90 | 1, 2, 3, 4, 6, 16 | | | | | 90 | 4, 6 |
| | 110 | 1, 2, 3, 4, 6, 16 | | 110 | 1, 2, 3, 4, 6, 16 | | | | | 110 | 4, 6 |
| | 140 | 4, 6 | | 140 | 4, 6 | | | | | 140 | 4 |
|  | 160 | 4, 6 |  | 160 | 4, 6 |  | 25x½" | 10, 16 |  | 160 | 4, 6 |
| | 180 | 6 | | 180 | 6 | | 32x½" | 10, 16 | | 180 | 6 |
| | 200 | 4 | | 200 | 4 | | 32x¾" | 10 | | 200 | 6 |
| | | | | | | | 75x2" | 6 | | | |
| | | | | | | | 90x2" | 6 | | | |
| | | | | | | | 90x2½" | 6 | | | |
| | | | | | | | 110x3" | 6 | | | |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |
|  | 20 | 16 |  | 20x½" | 10 |  | 25x20 | 10 |  | 25x½" | 16 |
| | 25 | 16 | | 25x¾" | 10, 16 | | 32x20 | 10 | | | |
| | 32 | 16 | | 32x1" | 10, 16 | | 32x25 | 10, 16 | | | |
| | 40 | 16 | | 40x1¼" | 6, 16 | | 40x32 | 6, 16 | | | |
| | 50 | 16 | | 50x1½" | 6, 16 | | 50x32 | 6 | | | |
| | 63 | 16 | | 63x2" | 6, 16 | | 50x40 | 6, 16 | | | |
| | 75 | 16 | | 75x2½" | 6, 16 | | 63x32 | 16 | | | |
| | 90 | 16 | | 90x3" | 6, 16 | | 63x40 | 6 | | | |
| | 110 | 4 | | 110x4" | 6, 16 | | 63x50 | 6, 16 | | | |
| | 200 | | | 140x5" | 6 | | 75x50 | 16 | | | |
|  | | |  | 160x6" | 6 | | 75x63 | 6, 16 |  | 25x¾" | 16 |
| | | | | | | | 90x50 | 6, 16 | | | |
| | | | | | | | 90x63 | 6 | | | |
| | | | | | | | 90x75 | 6, 16 | | | |
| | | | | | | | 110x75 | 6 | | | |
| | | | | | | | 110x90 | 6, 16 | | | |
| | | | | | | | 140x110 | 6 | | | |
| | | | | | | | 160x110 | 6 | | | |
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Note : Recommended for larger sizes and higher pressure class-140mm and above sizes in 4, 6 10 and 12.5 kgf/cm². 90mm and 110mm in 10 and 12.5 kgf/cm²

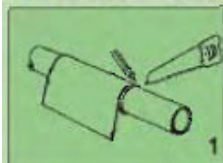
Dimensions of uPVC Pressure Pipes (IS 4985:2000 Extract)

| Nominal Outside Diameter (D) | Tolerance on Outside Diameter | Wall Thickness (t) mm | | | | | | | | | | | | | | Plumbing Pipes | |
|---------------------------------------|-------------------------------------|-----------------------------|-----|---------------------------|------|---------------------------|------|---------------------------|------|----------------------------|------|------------------------------|------|-----|-----|----------------|--|
| | | Class 1 (PN) 2.5 kgf/cm² | | Class 2 (PN) 4 kgf/cm² | | Class 3 (PN) 6 kgf/cm² | | Class 4 (PN) 8 kgf/cm² | | Class 5 (PN) 10 kgf/cm² | | Class 6 (PN) 12.5 kgf/cm² | | | | | |
| | | 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 | 5.8 | | | | |
| 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 | 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 | + 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 | 12.8 | | | | |
| 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 | 17.8 | | | | |
| 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 | 19.0 | 21.9 | | | | |
| 315 | + 1.0 | 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 | + 1.1 | 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 | + 1.2 | 5.8 | 6.7 | 9.1 | 10.5 | 13.5 | 15.6 | 17.8 | 20.5 | 22.0 | 25.3 | 27.2 | 31.3 | | | | |
| 450 | + 1.4 | 6.5 | 7.5 | 10.3 | 11.9 | 15.2 | 17.5 | 20.0 | 23.0 | 24.6 | 28.6 | 30.5 | 35.1 | | | | |

CONSUMPTION OF SOLVENT CEMENT :

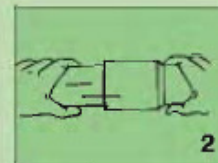
| Diameter of pipe (mm) | 20 | 25 | 32 | 40 | 50 | 63 | 75 | 90 | 110 | 140 | 160 | 180 | 200 | 225 | 250 | 280 | 315 | 355 | 400 | 450 |
|---|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Appx. no. of joints which can be made per liter of solvent cement | 324 | 270 | 225 | 180 | 130 | 125 | 103 | 79 | 54 | 36 | 27 | 25 | 15 | 12 | 9 | 7 | 5 | 3 | 2 | 2 |

JOINING INSTRUCTIONS



Cut the pipe as square as possible. Please ensure that fitting of pipe with socket of fitting is correct.

Total length of insertion of socket shall be marked on pipe (for most of the cases the pipe inserted should be up to the marked line and in no case shall be less than 2/3rd of the pipe end up to the marked line.)



The pipe and the socket should be clean and dry. Dust, oil, water, grease etc. should be wiped out with dry cloth or cleaner from the surfaces to be coated with solvent cement.

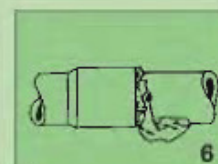
Roughen the outside of the pipe and the inside of the socket using sand paper or piece of hacksaw blade up to the entry mark. Stir adhesive i.e. solvent cement thoroughly.



Apply a thick coat of solvent cement using a flat clean brush evenly on the inside of the socket mouth for full length of insertion and then on outside of the pipe end up to the marked line.



After application of solvent cement, insert the pipe within one minute into the socket. Hold the joint for few seconds and ensure that pipe does not come out of 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 our installation guide.