



## CHAIKA uPVC BLUE CASING PIPE & RIBBED SCREEN CASING PIPES as per IS : 12818 : 1992 with latest amendments

Now a days main source of Drinking Water is from Tube well. **CHAIKA** Blue PVC Casing & Ribbed Screen are manufactured as per IS : 12818 : 1992 and classified as CS Pipe suitable for wells up to 80 Mtrs depths and CM Pipes suitable for 80 Mtrs. to 250 Mtrs.

**Dimension of PVC Casing Pipes (CM & CS)  
As per IS 12818 : 1992 with latest amendments.**



### DIMENSION OF uPVC SCREEN BLUE PIPES AS PER IS : 12818

| Nominal Diameter DN | Mean Outer Diameter of Pipe, d | Outer Diameter of pipe at Any point | Mean Outer Diameter Over Connection, ds | Wall Thickness, s |      |
|---------------------|--------------------------------|-------------------------------------|---|-------------------|------|
|                     |                                |                                     |   | Min.              | Max. |
| 40 (1½")            | 52.0                           | 51.9                                | 56.0                                    | 3.5               | 4.0  |
| 50 (2")             | 64.0                           | 63.9                                | 69.0                                    | 4.0               | 4.6  |
| 80 (3")             | 92.0                           | 91.8                                | 98.0                                    | 4.0               | 4.6  |
| 100 (4")            | 117.0                          | 116.8                               | 124.0                                   | 5.0               | 5.7  |
| 125 (5")            | 144.0                          | 143.7                               | 154.0                                   | 6.5               | 7.3  |
| 150 (6")            | 169.0                          | 168.6                               | 182.0                                   | 7.5               | 8.5  |
| 175 (7")            | 204.0                          | 203.6                               | 219.0                                   | 8.8               | 9.8  |

### DIMENSIONS OF uPVC BLUE CASING PIPES (in mm) AS PER IS : 12818

|    | Nominal Diameter DN | Mean Outer Diameter of Pipe, d |       | Out Diameter of pipe at Any point |       | Mean Outer Diameter Over Connection, ds | Wall Thickness, s |      |
|----|---------------------|--------------------------------|-------|-----------------------------------|-------|---|-------------------|------|
|    |                     | Min.                           | Max.  | Min.                              | Max.  |   | Min.              | Max. |
| CM | 40 (1½")            | 48.0                           | 48.2  | 47.9                              | 48.3  | 52.0                                    | 3.5               | 4.0  |
|    | 50 (2")             | 60.0                           | 60.2  | 59.9                              | 60.3  | 65.0                                    | 4.0               | 4.6  |
|    | 80 (3")             | 88.0                           | 88.3  | 87.9                              | 88.4  | 94.0                                    | 4.0               | 4.6  |
|    | 100 (4")            | 113.0                          | 113.3 | 112.9                             | 113.4 | 120.0                                   | 5.0               | 5.7  |
|    | 125 (5")            | 140.0                          | 140.4 | 139.9                             | 140.5 | 150.0                                   | 6.5               | 7.3  |
|    | 150 (6")            | 165.0                          | 165.4 | 164.8                             | 165.6 | 178.0                                   | 7.5               | 8.5  |
|    | 175 (7")            | 200.0                          | 200.5 | 199.8                             | 200.6 | 215.0                                   | 8.8               | 9.8  |
| CS | 200 (8")            | 225.0                          | 225.5 | 224.8                             | 225.8 | 243.0                                   | 10.0              | 11.2 |
|    | 150 (6")            | 165.0                          | 165.4 | 164.8                             | 165.6 | 174.0                                   | 5.7               | 6.5  |
|    | 175 (7")            | 200.0                          | 200.5 | 199.8                             | 200.6 | 211.0                                   | 7.0               | 7.8  |
|    | 200 (8")            | 225.0                          | 225.5 | 224.8                             | 225.8 | 238.0                                   | 7.6               | 8.8  |



### FEATURES & ADVANTAGES

- CHAIKA PVC rigid pipes are superior to G.I. Pipe.
- Ensures high flow compared to other pipes.
- Greater strength with uniform wall thickness.
- Light weight, easy transportation and installation.



## CHAIKA POLYMERS Pvt. Ltd.

An ISO 9001:2000 Company

**(MANUFACTURER OF uPVC PIPES)**



### CHAIKA uPVC PIPES

A Complete Solution

**Unmatched Quality  
Long Lasting Reliability**



## CHAIKA POLYMERS Pvt. Ltd.

An ISO 9001:2000 Company



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Tupudana Industrial Area,  
Ranchi - 834003 (Jharkhand)

Authorised Dealer :





## INTRODUCTION

**CHAIKA** Pipes a complete solution for **Drinking Water, Irrigation, Sewerage and Drainage Systems**. **CHAIKA** uPVC pipes are manufactured with most advanced and latest machinery as per ISI specifications and ASTM D 1785 specifications.

We manufacture uPVC Pipes from dia 1/2" (15mm) to 8" (200 mm).

Manufacturing process is looked after by a team of highly technical, professional and vastly experienced personals, which guarantee a class product, with no compromise whatsoever.

PVC makes a major contribution to the quality, safety and cost effectiveness of construction materials.

PVC pipes are favored for use in applications such as potable water pipes, as being lead free.

PVC is resistant to weathering chemical, rotting, corrosion, shock and abrasion as such becomes the preferred choice which accounts for 80 percent of PVC production in the **Building, Construction sector, Deep Borewell, Irrigation, Drainage System**. PVC pipes are very competitive in terms of price, thus value further enhanced by the properties such as its durability, life span and low maintenance.

## CHAIKA uPVC PLUMBING PIPES as per ASTM D : 1785

DIMENSION OF uPVC PLUMBING PIPES MADE TO STAND TO ASTM D 1785 & THREADED TO MATCH G.I. PIPES AS PER IS : 1239 (Part-1)

| NOMINAL PIPE SIZE | OUTSIDE DIAMETER IN MM | SCHEDULE 40          |                     | SCHEDULE 80          |                     |
|-------------------|------------------------|----------------------|---------------------|----------------------|---------------------|
|                   |                        | WALL THICKNESS IN MM | PRESSURE RATING BAR | WALL THICKNESS IN MM | PRESSURE RATING BAR |
| 15 mm (1/2")      | 21.2                   | 2.8                  | 20.5                | 3.7                  | 29                  |
| 20 mm (3/4")      | 26.6                   | 2.9                  | 16.5                | 3.9                  | 23                  |
| 25 mm (1")        | 33.3                   | 3.4                  | 15.5                | 4.5                  | 22                  |
| 32 mm (1 1/4")    | 42.0                   | 3.6                  | 12.5                | 4.9                  | 22                  |
| 40 mm (1 1/2")    | 48.1                   | 3.7                  | 11.5                | 5.1                  | 16                  |
| 50 mm (2")        | 60.2                   | 3.9                  | 9.5                 | 5.5                  | 14                  |
| 65 mm (2 1/2")    | 72.8                   | 5.2                  | 10.5                | 7.0                  | 15                  |
| 80 mm (3")        | 88.7                   | 5.5                  | 9.0                 | 7.6                  | 13                  |
| 100 mm (4")       | 114.1                  | 6.0                  | 7.5                 | 8.6                  | 11                  |
| 125 mm (5")       | 141.0                  | 6.6                  | 6.5                 | 9.5                  | 9.7                 |
| 150 mm (6")       | 168.0                  | 7.1                  | 6.0                 | 11.0                 | 9.7                 |

\* We also make column (submersible) Pipes.



CHAIKA uPVC



**CHAIKA Irrigation/  
Agriculture/Grey  
uPVC  
as per IS : 4985:2000**

## DIMENSION OF uPVC GREY PIPES (in mm) AS PER IS : 4985 : 2000

| SIZE        | WALL THICKNESS (IN MM)       |     |                            |     |                            |     |                            |      |                             |      |                               |      |
|-------------|------------------------------|-----|----------------------------|-----|----------------------------|-----|----------------------------|------|-----------------------------|------|-------------------------------|------|
|             | CLASS - 1<br>2.5 KGF / CM.sq |     | CLASS - 2<br>4 KGF / CM.sq |     | CLASS - 3<br>6 KGF / CM.sq |     | CLASS - 4<br>8 KGF / CM.sq |      | CLASS - 5<br>10 KGF / CM.sq |      | CLASS - 6<br>12.5 KGF / CM.sq |      |
| ODMM        | MIN                          | MAX | MIN                        | MAX | MIN                        | MAX | MIN                        | MAX  | MIN                         | MAX  | MIN                           | MAX  |
| 40 (1 1/2") | -                            | -   | -                          | -   | 1.4                        | 1.8 | 1.8                        | 2.2  | 2.2                         | 2.7  | 2.8                           | 3.3  |
| 50 (2")     | -                            | -   | -                          | -   | 1.7                        | 2.1 | 2.3                        | 2.8  | 2.8                         | 3.3  | 3.4                           | 4.0  |
| 63 (2 1/2") | -                            | -   | 1.5                        | 1.9 | 2.2                        | 2.7 | 2.8                        | 3.3  | 3.3                         | 4.1  | 4.3                           | 5.0  |
| 75 (3")     | -                            | -   | 1.8                        | 2.2 | 2.6                        | 3.1 | 3.4                        | 4.0  | 4.2                         | 4.9  | 5.1                           | 5.9  |
| 90 (3 1/2") | 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 (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  |
| 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 (6")    | 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 (7")    | 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 (8")    | 2.9                          | 3.4 | 4.6                        | 5.3 | 6.8                        | 7.9 | 8.9                        | 10.3 | 11.0                        | 12.7 | 13.6                          | 15.7 |

## CHAIKA uPVC SWR (Soil Waste & Rain Water) Drainage Systems as per IS : 13592:1992

uPVC SWR Pipes are most suitable for drainage and sewerage applications. It is fast replacing the conventional systems used in Building Industry. Due to its excellent properties as compared to conventional systems such as C.I. and Asbestos, this becomes most ideal to be used in Residential and Commercial Buildings.

**SWR Pipes are manufactured as per IS : 13592 standards.**

Team of **CHAIKA** keeps itself committed to unmatched quality and service.

### FEATURES & ADVANTAGES

- Quick and conventional Installation - Results cost reduction.
- Excellent Chemical & Corrosion resistance.
- All Weather resistance.
- Leak proof and least maintenance.
- Economical and Durable.



## Non - Pressure UPVC Pipe for Drainage and Sewerage As Per IS 15328 : 2003

|  |                              |           |           |
|--|------------------------------|-----------|-----------|
| Nominal Ring Stiffness SN (KN/M <sup>2</sup> ) | 2                            | 4         | 8         |
| Dimension Ratio (SDR)                          | 51                           | 41        | 34        |
| Pipe Series                                    | S 25                         | S 20      | S 16.5    |
| <b>Nominal OD</b>                              | <b>Wall Thickness, e, mm</b> |           |           |
| 110  | -                            | -         | 3.2 + 0.5 |
| 125  | -                            | 3.2 + 0.5 | 3.7 + 0.7 |
| 160  | 3.2 + 0.5                    | 4.0 + 0.6 | 4.7 + 0.7 |
| 200  | 3.9 + 0.6                    | 4.9 + 0.7 | 5.9 + 0.8 |
| 250  | 4.9 + 0.7                    | 6.2 + 0.8 | 7.3 + 1.0 |
| 315  | 6.2 + 0.8                    | 7.7 + 1.0 | 9.2 + 1.2 |