



**RAHIM SAHAK**  
GROUP OF COMPANIES

EXCELLENCE IN EVERY TAKE



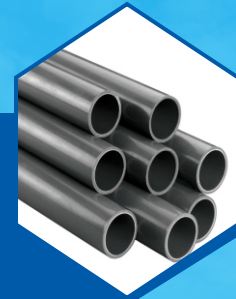






**RAHIM SAHAK**  
GROUP OF COMPANIES

**PVC PIPE**



**PVC FITTING**



**PVC CEMENT**



**PET PREFORM**



**CLOSURE**



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## INTRODUCTION

### RAHIM SAHAK GROUP OF COMPANIES

(RSGC) Is formed from different companies combining for the betterment of Afghanistan, each of the companies performing under the name of RSGC has been diligently perfecting their services for the benefit of our customers progression of the economical state of Afghanistan since 1995.

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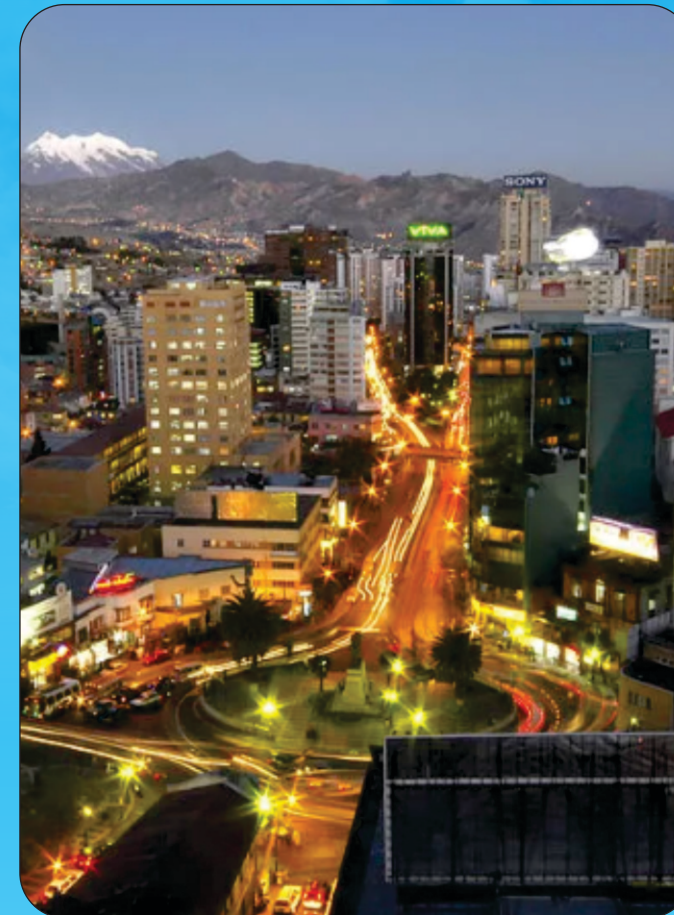


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### WHY CHOOSE RSGC?

RSGC offers the greatest combination of versatility, durability and longevity and give importance to quality control and:

1. Uses the most advanced technology.
2. Has highly skilled and experienced team.
3. Uses the most suitable raw materials.
4. Offers products as per international standards.
5. Controls Quality at each stage of production & has well equipped laboratory.
6. Committed to high ethical business values and competitive pricing.



### OUR VISION

Taking care of the interests of our customers and manufacturing companies which we consider as our business partners and providing the highest quality, service and products besides catching our own growth targets.

### MISSION

Profitable growth through superior customer service, innovation, quality and commitment. The Company's primary objective is to maximise long-term customer value while adhering to the highest manufacturing standards.







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## ASTM D 1785

### Sustained Pressure

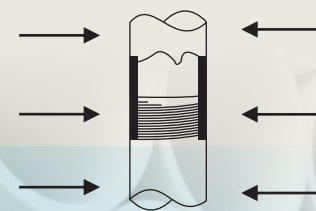
| Nominal Size Pipe | Pressure Required for Test PSI |             |              |
|-------------------|--------------------------------|-------------|--------------|
|                   | Schedule 40                    | Schedule 80 | Schedule 120 |
| 1/2               | 1250                           | 1780        | 2130         |
| 3/4               | 1010                           | 1440        | 1620         |
| 1                 | 950                            | 1320        | 1510         |
| 1 1/2             | 690                            | 990         | 1130         |
| 2                 | 580                            | 850         | 990          |
| 3"                | 590                            | 790         | 930          |
| 4"                | 470                            | 680         | 900          |
| 6"                | 370                            | 590         | 780          |
| 8"                | 330                            | 520         | 760          |
| 10"               | 300                            | 490         | 770          |
| 12"               | 280                            | 480         | 710          |

### Burst Pressure

| Pressure Required for Test PSI |             |              |
|--------------------------------|-------------|--------------|
| Schedule 40                    | Schedule 80 | Schedule 120 |
| 1910                           | 2720        | 3250         |
| 1540                           | 2200        | 2470         |
| 1440                           | 2120        | 2300         |
| 1060                           | 1510        | 1720         |
| 890                            | 1290        | 1510         |
| 840                            | 1200        | 1420         |
| 710                            | 1040        | 1380         |
| 560                            | 890         | 1190         |
| 500                            | 790         | 1160         |
| 450                            | 750         | 1170         |
| 420                            | 730         | 1090         |

### COLLAPSE PRESSURE

Pounds Per Square Inch Of External Hydrostatic Pressure That Can Be Safely Applied.



### BURST PRESSURE

Pounds Per Square Inch of internal Hydrostatic Pressure That Can Be Safely Applied.



### TENSILE PRESSURE

The suspended weight the threaded joint can sustain in a vertical position without causing stretching or failure.







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## LABORATORY TESTING

To ensure quality of pipes following tests are regularly conducted in our laboratory as per British, Pakistan and American Standards.

- Heat Reversion
- Burst Pressure
- Impact Strength
- Acetone Resistance
- Resistance to Sulphuric Acid
- Flattening (ASTM)
- Fracture Toughness
- Opacity
- Methylene Chloride
- Density







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### Table of Pipe Dimension For Classes B, C, D and E

Diamond Pipe lengths : 4m, 5, and 6m  
Diamond Pipe Normally socketed at one end

| Table of Pipe Dimension For Classes B, C, D and E |                       |                  |                     |                  |               |                     |               |                  |                      |                  |               |                      |               |                  |
|---|-----------------------|------------------|---------------------|------------------|---------------|---------------------|---------------|------------------|----------------------|------------------|---------------|----------------------|---------------|------------------|
| Nominal Size                                      | Mean Outside Diameter |                  | Wall Thickness      |                  |               |                     |               |                  |                      |                  |               |                      |               |                  |
|   |                       |                  | Class B             |                  |               | Class C             |               |                  | Class D              |                  |               | Class E              |               |                  |
|   |                       |                  | 6 bar (200 ft.head) |                  |               | 9 bar (300 ft.head) |               |                  | 12 bar (400 ft.head) |                  |               | 15 bar (500 ft.head) |               |                  |
|   | Average Value         | Individual Value | Average Value       | Individual value | Average Value | Individual value    | Average Value | Individual value | Average Value        | Individual value | Average Value | Individual value     | Average Value | Individual value |
|   | min.                  | max.             | max.                | min.             | max.          | max.                | min.          | max.             | max.                 | min.             | max.          | max.                 | min.          | max.             |
| Inch  | mm                    | mm               | mm                  | mm               | mm            | mm                  | mm            | mm               | mm                   | mm               | mm            | mm                   | mm            | mm               |
| 3/8   | 17.0                  | 17.3             | -                   | -                | -             | -                   | -             | -                | -                    | -                | -             | 1.9                  | 1.5           | 1.9              |
| 1/2   | 21.2                  | 21.5             | -                   | -                | -             | -                   | -             | -                | -                    | -                | -             | 2.1                  | 1.7           | 2.1              |
| 3/4   | 26.6                  | 26.9             | -                   | -                | -             | -                   | -             | -                | -                    | -                | -             | 2.5                  | 1.9           | 2.5              |
| 1   | 33.4                  | 33.7             | -                   | -                | -             | -                   | -             | -                | -                    | -                | -             | 2.7                  | 2.2           | 2.7              |
| 1 1/4   | 42.1                  | 42.4             | -                   | -                | -             | -                   | -             | -                | 2.7                  | 2.2              | 2.7           | 3.2                  | 2.7           | 3.2              |
| 1 1/2   | 48.1                  | 48.4             | -                   | -                | -             | -                   | -             | -                | 3.0                  | 2.5              | 3.0           | 3.7                  | 3.1           | 3.7              |
| 2   | 60.2                  | 60.5             | -                   | -                | -             | 3.0                 | 2.5           | 3.0              | 3.7                  | 3.1              | 3.7           | 4.5                  | 3.9           | 4.5              |
| 2 1/2   | 75.0                  | 75.3             | -                   | -                | -             | 3.5                 | 3.5           | 3.5              | 4.5                  | 3.9              | 4.5           | 5.5                  | 4.8           | 5.5              |
| 3   | 88.7                  | 89.1             | 3.4                 | 2.9              | 3.4           | 4.1                 | 3.5           | 4.1              | 5.3                  | 4.6              | 5.3           | 6.5                  | 5.7           | 6.6              |
| 4   | 114.1                 | 114.5            | 4.0                 | 3.4              | 4.0           | 5.2                 | 4.5           | 5.2              | 6.8                  | 6.0              | 6.9           | 8.3                  | 7.3           | 8.4              |
| 5   | 140.0                 | 140.4            | 4.4                 | 3.8              | 4.4           | 6.3                 | 5.6           | 6.4              | 8.3                  | 7.3              | 8.4           | 10.1                 | 9.0           | 10.4             |
| 6   | 168.0                 | 168.5            | 5.2                 | 4.5              | 5.2           | 7.5                 | 6.6           | 7.6              | 9.9                  | 8.8              | 10.2          | 12.1                 | 10.8          | 12.5             |
| 7   | 193.5                 | 194.0            | 6.0                 | 5.2              | 6.0           | 8.7                 | 7.8           | 8.9              | 11.4                 | 10.1             | 11.7          | 13.9                 | 12.4          | 14.3             |
| 8   | 218.8                 | 219.4            | 6.1                 | 5.3              | 6.1           | 8.8                 | 7.8           | 9.0              | 11.6                 | 10.3             | 11.9          | 14.1                 | 12.6          | 14.5             |
| 9   | 244.1                 | 244.8            | 6.7                 | 5.9              | 6.8           | 9.8                 | 7.8           | 10.0             | 12.9                 | 11.5             | 13.3          | 15.8                 | 14.1          | 16.3             |
| 10  | 272.6                 | 273.4            | 7.5                 | 6.6              | 7.6           | 10.9                | 9.7           | 11.2             | 14.3                 | 12.8             | 14.8          | 17.5                 | 15.7          | 18.1             |
| 12  | 323.4                 | 324.3            | 8.8                 | 7.8              | 9.0           | 12.9                | 11.5          | 13.3             | 17.0                 | 15.2             | 17.5          | 20.8                 | 18.7          | 21.6             |
| 14  | 355.0                 | 356.0            | 9.6                 | 8.5              | 9.8           | 14.1                | 12.6          | 14.5             | 18.6                 | 16.7             | 19.2          | 22.8                 | 20.5          | 23.6             |
| 16  | 405.9                 | 407.0            | 10.9                | 9.7              | 11.2          | 16.2                | 14.5          | 16.7             | 21.1                 | 19.0             | 21.9          | 26.0                 | 23.4          | 27.0             |
| 18  | 456.7                 | 457.7            | 12.3                | 11.0             | 12.7          | 18.2                | 16.3          | 18.8             | 23.8                 | 21.4             | 24.6          | -                    | -             | -                |
| 20  | 507.5                 | 507.5            | 13.7                | 12.2             | 14.1          | 20.2                | 18.1          | 20.9             | -                    | -                | -             | -                    | -             | -                |
| 22  | 558.3                 | 559.3            | 15.0                | 13.4             | 15.5          | 22.1                | 19.9          | 22.9             | -                    | -                | -             | -                    | -             | -                |
| 24  | 609.1                 | 610.1            | 16.3                | 14.6             | 16.8          | 24.7                | 21.7          | 25.0             | -                    | -                | -             | -                    | -             | -                |
| Table of Pipe Weights for Classes B, C, D and E   |                       |                  |                     |                  |               |                     |               |                  |                      |                  |               |                      |               |                  |
| Nominal Size (inch)                               |                       | Class-B kg/m     |                     | Class-C kg/m     |               | Class-D kg/m        |               | Class-E kg/m     |                      |                  |               |                      |               |                  |
| 3/8   |                       | -                |                     | -                |               | -                   |               | 0.11             |                      |                  |               |                      |               |                  |
| 1/2   |                       | -                |                     | -                |               | -                   |               | 0.15             |                      |                  |               |                      |               |                  |
| 3/4   |                       | -                |                     | -                |               | -                   |               | 0.22             |                      |                  |               |                      |               |                  |
| 1   |                       | -                |                     | -                |               | -                   |               | 0.32             |                      |                  |               |                      |               |                  |
| 1-1/4   |                       | -                |                     | -                |               | 0.41                |               | 0.5              |                      |                  |               |                      |               |                  |
| 1-1/2   |                       | -                |                     | -                |               | 0.54                |               | 0.65             |                      |                  |               |                      |               |                  |
| 2   |                       | -                |                     | 0.68             |               | 0.82                |               | 1.03             |                      |                  |               |                      |               |                  |
| 2-1/2   |                       | -                |                     | 1.01             |               | 1.20                |               | 1.58             |                      |                  |               |                      |               |                  |
| 3   |                       | 1.17             |                     | 1.41             |               | 1.82                |               | 2.22             |                      |                  |               |                      |               |                  |
| 4   |                       | 1.78             |                     | 2.32             |               | 3.30                |               | 3.65             |                      |                  |               |                      |               |                  |
| 5   |                       | 2.44             |                     | 3.49             |               | 4.55                |               | 5.51             |                      |                  |               |                      |               |                  |
| 6   |                       | 3.46             |                     | 5.01             |               | 6.57                |               | 7.95             |                      |                  |               |                      |               |                  |
| 8   |                       | 5.30             |                     | 7.72             |               | 10.05               |               | 12.17            |                      |                  |               |                      |               |                  |
| 10  |                       | 8.26             |                     | 11.97            |               | 15.59               |               | 18.89            |                      |                  |               |                      |               |                  |
| 12  |                       | 11.50            |                     | 16.85            |               | 21.91               |               | 26.68            |                      |                  |               |                      |               |                  |
| 14  |                       | 13.87            |                     | 20.27            |               | 26.49               |               | 32.16            |                      |                  |               |                      |               |                  |





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## ASTM D 1785-94

### ASTM D 1785-94

#### Outside Diameter, Wall Thickness & Tolerances for PVC Pipe Schedule 40, 80 & 120

| Nominal<br>Size | Mean Outside Dime-<br>ter (mm) |        | Tolerances (mm)                         |                                | Wall Thickness (mm) |           |        |           |         |                |
|-----------------|--------------------------------|--------|---|--------------------------------|---------------------|-----------|--------|-----------|---------|----------------|
|                 |                                |        | For Max & Min (Out<br>of the roundness) |                                |                     |           |        |           |         |                |
|                 |                                |        | Sch 40<br>sizes 4”<br>and over          | Sch 40<br>sizes 4”<br>and less | Sch.40              |           | Sch.80 |           | Sch.120 |                |
|                 | Min                            | Max    | Sch 80<br>sizes 8”<br>and over          | Sch 80<br>sizes 8”<br>and less | Min                 | Tolerance | Min    | Tolerance | Min     | Toler-<br>ance |
| 1 /2            | 21.24                          | 21.44  | ---                                     | +0.2                           | 2.77                | +0.51     | 3.73   | +0.51     | 4.32    | +0.51          |
| 3 /4            | 26.57                          | 26.77  | ---                                     | +0.25                          | 2.87                | +0.51     | 3.91   | +0.51     | 4.32    | +0.51          |
| 1               | 33.27                          | 33.53  | ---                                     | +0.25                          | 3.38                | +0.51     | 4.55   | +0.53     | 5.08    | +0.61          |
| 1 1/2           | 48.11                          | 48.41  | ---                                     | +0.3                           | 3.68                | +0.51     | 5.08   | +0.61     | 5.72    | +0.68          |
| 2               | 60.17                          | 60.47  | ---                                     | +0.3                           | 3.91                | +0.51     | 5.54   | +0.66     | 6.35    | +0.76          |
| 3               | 88.7                           | 89.1   | ---                                     | +0.38                          | 5.49                | +0.66     | 7.62   | +0.91     | 8.89    | +1.07          |
| 4               | 114.07                         | 114.53 | +1.27                                   | +0.38                          | 6.02                | +0.71     | 8.56   | +1.02     | 11.1    | +1.32          |
| 6               | 168.0                          | 168.56 | +1.27                                   | +0.89                          | 7.11                | +0.86     | 10.97  | +1.32     | 14.27   | +1.7           |
| 8               | 218.7                          | 219.46 | +1.9                                    | +1.14                          | 8.18                | +0.99     | 12.70  | +1.52     | 18.24   | +2.18          |
| 10              | 272.67                         | 273.43 | +1.9                                    | +1.27                          | 9.27                | +1.12     | 15.06  | +1.8      | 21.41   | +2.56          |
| 12              | 323.47                         | 324.23 | +1.9                                    | +1.52                          | 10.31               | +1.24     | 17.45  | +2.08     | 25.40   | +3.05          |

Table of Pipe Weights for PVC Pipe Schedule 40, 80 & 120

| S No | Normal Size ( in Inch) | Sch # 40 kg/m | Sch # 80 kg/m | Sch # 120 kg/m |
|------|------------------------|---------------|---------------|----------------|
| 1    | 3/8                    | ----          | ----          | ----           |
| 2    | 1/2                    | 0.248         | 0.309         | 0.352          |
| 3    | 3/4                    | 0.329         | 0.464         | 0.625          |
| 4    | 1                      | 0.483         | 0.692         | 0.700          |
| 5    | 1-1/4                  | 0.652         | 0.750         | 0.968          |
| 6    | 1-1/2                  | 0.779         | 1.200         | 1.174          |
| 7    | 2                      | 1.04          | 1.500         | 1.657          |
| 8    | 2-1/2                  | 1.65          | 2.177         | 2.409          |
| 9    | 3                      | 2.16          | 2.916         | 3.439          |
| 10   | 4                      | 3.07          | 4.125         | 5.537          |
| 11   | 5                      | 4.169         | 5.915         | ----           |
| 12   | 6                      | 5.41          | 8.130         | 10.636         |
| 13   | 8                      | 8.15          | 12.400        | 16.818         |
| 14   | 10                     | 11.5          | 18.300        | ----           |
| 15   | 12                     | 17            | 25.223        | ----           |
| 16   | 14                     | 21.75         | 33.750        | ----           |





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ASTM D 2466 SCH 40

**PVC FITTING**

RSGC takes pride in declaring itself as the first and largest PVC Fitting production company in Afghanistan since 1995. PVC fitting is suitable for potable water supply, Irrigation, Water Treatment, Swimming Pools, Industrial Piping, Sewerage, and Drain Systems.







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## ASTM D 2466 SCH 40

### PVC FITTING ADVANTAGES

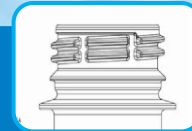
- Flexibility
- Mechanical Strength
- Impact Strength
- Fire Proffing
- Non-Toxic
- Easy to Install
- Corrosion Resistance
- Resistance to Biological Attack
- Resistance to Abrasion
- Sanitary







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## PET PREFORM

**Our wide range of preform are specifically designed to meet bottlers, dynamic designs and consumer preferences.**

- Ergonomically designed and engineered, our PET preforms are easy to blow and pour.
- Suitable mix of IV & copolymer in our PET Preform which keeps pressure of Co2 without distortion or expansion.
- Clear PET packaging allows the products freshness to speak for itself.
- Our preforms delivers shelf differentiation, distinctive features, advanced technology and cost competitiveness to your products.
- Used by the highest grade material in the market.





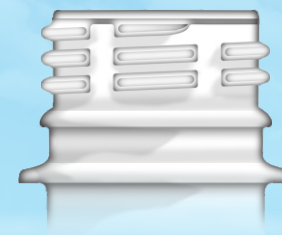


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## STANDARD PRE-FORM

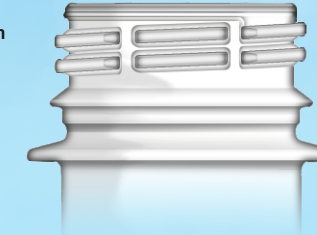
### 28mm PCO I810

Number of Starts: Single  
Thread Start (S): 1.70mm  
Thread Pitch: 3.18mm  
Thread Turn: 720°  
Height (H): 21mm  
Mouth (I): 21.74mm



### 28mm PCO I88I

Number of Starts: Single  
Thread Start (S): 1.70mm  
Thread Pitch: 2.70mm  
Thread Turn: 650°  
Height (H): 17mm  
Mouth (I): 21.74mm



### 29/25

Number of Starts: 3  
Thread Start (S): 2.0mm  
Thread Pitch: 6.33mm  
Thread Turn: 180°  
Height (H): 12.6mm  
Mouth (I): 25.1mm



### 30/25

Number of Starts: 3  
Thread Start (S): 1.50mm  
Thread Pitch: 9mm  
Thread Turn: 120°  
Height (H): 16.8mm  
Mouth (I): 25mm







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## Pet Preform



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## CLOSURE



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## Carbonated Soft Drink

- Licensed caps for Carbonated Soft Drinks (CSD 1810 & 1881)
- Using the latest and advanced Compression Molding Technology in the most ultra modern plant
- Supreme surface finish
- Precise Inside printing / promotional printing







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## Mineral Water

- 30/25mm diameter closure suitable for 30/25 High Neck Finish
- 29/25mm Short Neck Finish
- Our specifications are in line with the global standards worldwide.
- Supreme surface finish
- Precise Inside printing / promotional printing





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## PVC CEMENT

PVC Pipe cement glues your PVC pipes in place and seals them tight. It can be used with PVC pipes carrying water including drinking water, soil waste, sewage, drainage, and even for chemical transport in industrial Piping. The cement has strong temperature resistance and is suitable for pipes carrying hot or cold substances.







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✉ [rahim.sahak@gmail.com](mailto:rahim.sahak@gmail.com) [www.rsgc.af](http://www.rsgc.af)

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☎ +93 78 72 37 000 ☎ +93 78 05 44 088 ☎ +93 78 56 55 006  
📍 New Bagram Road, Park Sanati Street #6, Kabul.



