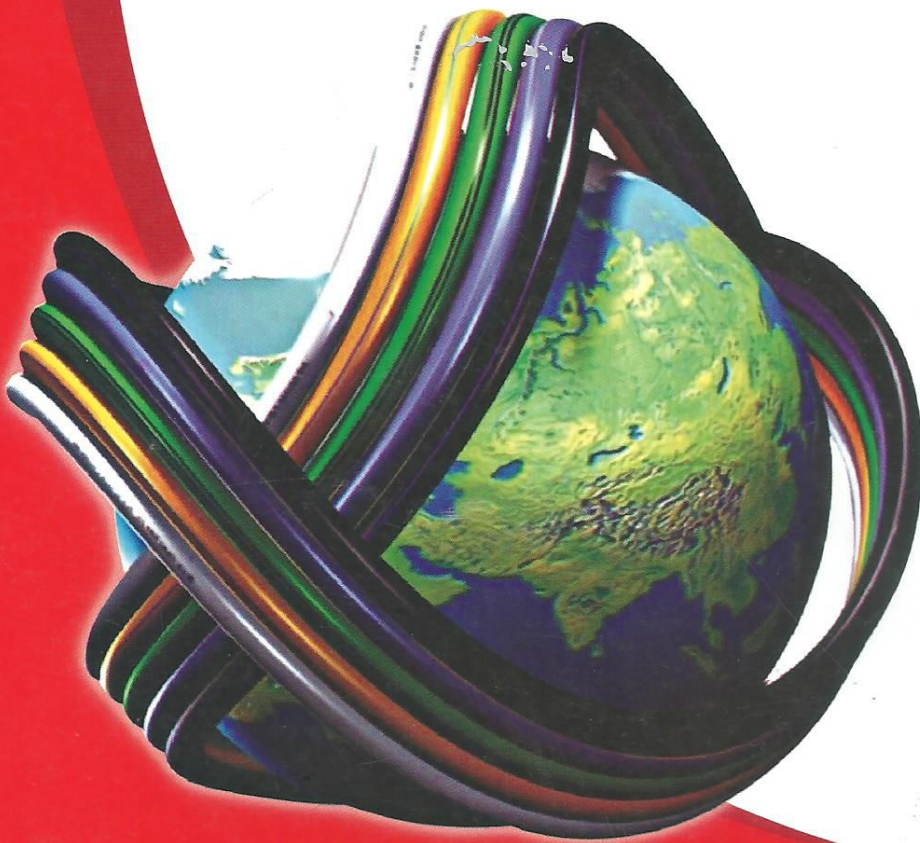




**EURO  
GULF**  
INDUSTRIES (Pvt.) Ltd.



Piping *the* new world



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# Our Mission

## Mission

Being recognized for superior services and providing innovative quality products.

## Credo

Serve & Strive through strain & stress  
Do our noblest, that's success.

## Goal

To achieve growth through sustained innovation for total customer satisfaction, meet this objective by producing quality products at optimum cost and marketing them at reasonable / economical prices.

## Guiding Principal

Toil and sweat to manage our resource of men, material and money in an integrated efficient and economic manner  
Earn profit, keeping in view commitment to social responsibility and environment concern.

## Quality Prospective

Make quality a way of life.



# About Us

Today there is a dire need of providing the people of Pakistan with safe drinking water and proper sanitation system. To cater this objective **Euro Gulf Industries** was established in the spring of 2005. Its Directors had been a part of the pipe industry since 1971. Their rich experience and the desire for growth of Pakistan's Economy led them to invest significantly in modern technology and machines, so as to ensure consistent high quality products and quick response to market demand.

**Euro Gulf Industries** is one of the leading Polymer Pipe & Fitting Manufacturer in Pakistan. It specializes in manufacturing PPR-C, uPVC, PE & cPVC Pipes & Fittings. Its facility is the only of its kind in Pakistan which manufactures all four types of Pipes & Fittings under one roof. It manufactures pipe ranging from ½" to 18" and also manufactures more than 150 different kind of fittings. Its products are supplied all over Pakistan. The lower diameter pipe (i.e. ½" to 6") is usually used & supplied to the commercial market and its higher diameter pipe (i.e. 6" onwards) and PE pipes are supplied and used in government, semi-government and special projects. More recently, cPVC Pipes & Fittings have been added to their product line.

Besides uPVC resin which is purchased from Engro Polymer, the sole manufacturer in Pakistan, all its Raw Material is imported from the most renowned companies in the world such as Tasnee, Sabic, Borouge, Basell and Lubrizol. The company gives utmost importance to its quality. For this reason alone, Euro Gulf Industries is among the only few companies in Pakistan who has an in-house laboratory, equipped with the latest gadgets to ensure quality to the last inch.

Apart from its ISO 9001-2015 Certification it is certified by PCSIR, PSQCA and Pakistan Engineering Council. It is also registered in different government and semi-government departments. It manages its own Distribution System to ensure availability of its product all over Pakistan & Abroad.

**Euro Gulf Industries** is on its way to  
"Piping the New World"

Piping *the* new world





# Why uPVC Pipe & Fitting

## UPVC

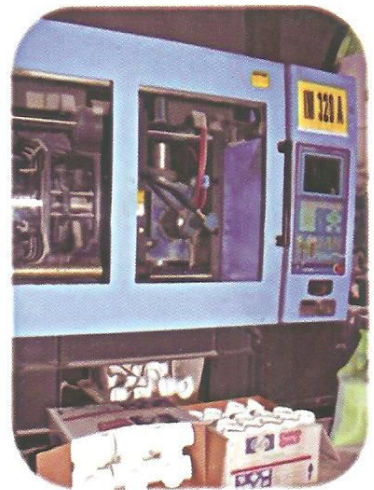
PVC was accidentally discovered at least twice in the 19th century, first in 1835 by Henri Victor regnault and in 1872 by Eugen Baumann. On both occasions the polymer appeared as a white soild inside flask of vinyl chloride that had been left exposed to sunlight. In the early 20<sup>th</sup> Century the Russian Chemist Ivan Ostromislensky and Fritz Klatte of the German Chemical Company Griesheim-Elektron both attempted to use PVC (polyvinyl chloride) in commercial products, but difficulties in processing the rigid, sometimes brittle polymer blocked their efforts. Waldo Semon and the B.F. Goodrich Company developed a method in 1926 to plasticize PVC by blending it with various additives. The result was a more flexible and more easily processed material that soon achieved widespread commercial use.

### Application

- Pot Water, Soil, Waste, Rain Water
- Ultra Pure Water and Sewage Treatment Plant
- Swimming Pools
- Air Conditioning / Refrigeration
- Food and Beverage Processing
- R. O. Plants
- Water Irrigation
- Cable & Telecommunication

### Advantages

- Long life, Design Life of 50 Years According to ISO
- Low Transportation and Handling Cost
- No Scaling or Deposition of Material
- Can Resist Wide Range of Chemicals
- Does not Promote Fire
- Reduce Chances of Short Circuit
- Can be Installed Both Inside and Outside
- Reduces Jointing and Labor Cost
  - Quick & Easy Installation
  - Low Maintenance Cost



# uPVC Specification

## ASTM D-1785 SCHEDULE 40 PIPES

Nominal Size Inches	Outside Dia (d) mm	Wall Thickness		Nominal Weight Kg/m	Pressure Rating Bar
		Min. mm	Max. mm		
1/2"	21.34	2.77	3.28	0.24	41.4
3/4"	26.67	2.87	3.38	0.33	33.1
1"	33.40	3.38	3.89	0.48	31.0
1 1/4"	42.16	3.56	4.06	0.65	25.5
1 1/2"	48.26	3.68	4.19	0.77	22.8
2"	60.32	3.91	4.42	1.04	19.3
2 1/2"	73.02	5.16	5.77	1.62	20.5
3"	88.90	5.49	6.15	2.14	17.9
4"	114.30	6.02	6.73	3.05	15.2
6"	168.28	7.11	7.98	5.37	12.4
8"	219.08	8.18	9.17	7.80	11.0
10"	273.05	9.27	10.39	11.06	9.7
12"	323.85	10.31	11.55	14.62	9.0

## ASTM D-2241 SDR SERIES PIPES

Nominal Size Inches	Outside Dia (d) mm	Wall Thickness		Nominal Weight Kg/m	Pressure Rating Bar
		Min. mm	Max. mm		
2" SDR 26	60.32	2.32	2.82	0.63	11.00
3" SDR 26	88.9	3.43	3.94	1.38	11.00
3" SDR 32.5	88.9	2.74	3.25	1.11	8.62
4" SDR 26	114.3	4.4	4.90	2.27	11.00
4" SDR 32.5	114.3	3.5	4.00	1.83	8.62
4" SDR 41	114.3	2.8	3.30	1.46	6.89
6" SDR 32.5	168.28	5.18	5.79	3.98	8.62
6" SDR 41	168.28	4.12	4.62	3.17	6.89
6" SDR 64	168.28	2.64	3.15	2.00	4.34
8" SDR 32.5	219.08	6.73	7.54	5.36	8.62
10" SDR 32.5	273.1	8.41	9.42	10.48	8.62
10" SDR 41	273.1	6.65	7.44	8.34	6.89
12" SDR 32.5	323.85	9.96	11.15	14.73	8.62
12" SDR 41	323.82	7.90	8.84	11.76	6.89

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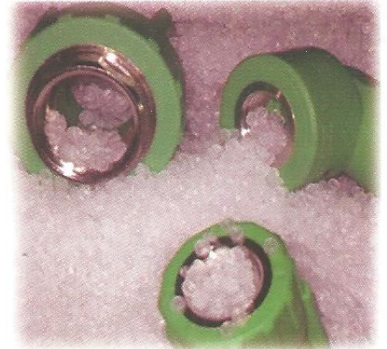
# Why PPR-C Pipe & Fitting

## PPR-C

EG PPR-C piping system can be used for distribution in housing, administration and community buildings as well as for industrial installations. EG PPR-C piping system is designed for transportation of cold and hot water. It is also used for the distribution of compressed air. EG PPR-C is a complete piping system in Pakistan that conforms to International Quality and Safety Standards.

## Application

- Hot / Cold and Chilled Water Piping.
- Industrial Piping for Aggressive Fluids.
- Compressed Air.
- Air Conditioning / Refrigeration.
- Food and Beverage Processing.

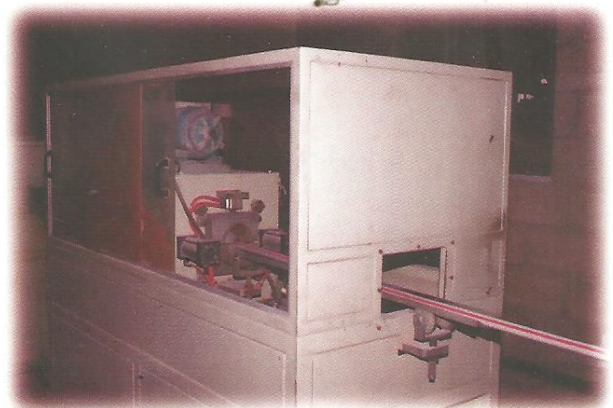


## Advantages

- Reduces Energy Losses.
- Suitable for Potable Water and Food Processing Industries.
- Design Life is 50 Years According to DIN 8077/8078.
- Can Withstand High Flow Velocity.
- Long Length Can be Made by Fusion Jointing.
- Reduce Chances of Short Circuit.
- Low Cost of Transportation and Handling.
- Reduces Jointing and Labor Cost.
- Low Cost of Fittings Used.
- Quick & Easy Installation.

## Properties

- Low Thermal Conductivity.
- Fusible / Weldable.
- Corrosion Resistance.
- Can Withstand High Flow Velocity.
- Light Weight.
- Food Grade Material.
- Compatible With Other System.



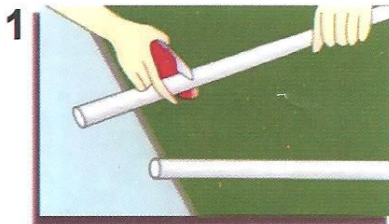


# PPR-C Specification

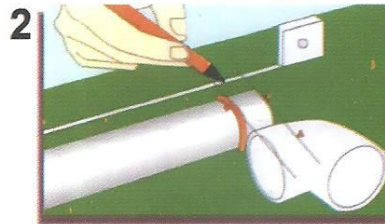
**Production Size & Welding time**  
**Din 8077 / July 1999**

PN 10			PN 20		
Outer Dia. with (max. limit) (mm)	Inside Dia (mm)	Wall Thickness with (max. limit) (mm)	Outer Dia. with (max. limit) (mm)	Inside Dia (mm)	Wall Thickness with (max. limit) (mm)
20(+0.3)	16.2	1.9(+0.4)	20(+0.3)	13.2	3.4(+0.6)
25(+0.3)	20.4	2.3(+0.5)	25(+0.3)	16.6	4.2(+0.7)
32(+0.3)	26.2	2.9(+0.5)	32(+0.3)	21.2	5.4(+0.8)
40(+0.4)	32.6	3.7(+0.6)	40(+0.4)	26.6	6.7(+0.9)
50(+0.5)	40.8	4.6(+0.7)	50(+0.5)	33.8	8.3(+1.1)
63(+0.6)	51.4	5.8(+0.8)	63(+0.6)	42	10.5(+1.3)
75(+0.7)	61.4	6.8(+0.9)	75(+0.7)	50	12.5(+1.5)
90(+0.9)	73.6	8.2(+1.1)	90(+0.9)	60	15(+1.7)
110(+0.9)	90	10(+1.2)	110(+0.9)	73.4	18.3(+2.1)

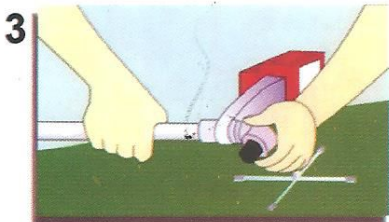
## Joining Procedure



Cut the pipe vertically, clean the cutter head after cutting.



Earmark the welding depth on the pipe as per specifications



Heat up the pipe and coupler



Insert the pipe into the coupler smoothly with in connection time.

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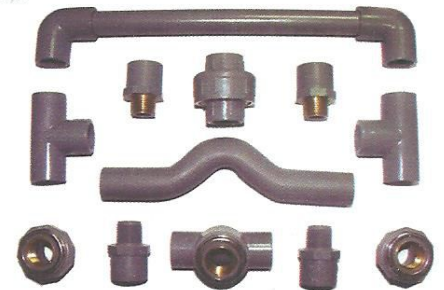
# Why cPVC Pipe & Fitting

## cPVC

Chlorinated Polyvinyl Chloride (CPVC) is a thermoplastic produced by Chlorination of Polyvinyl Chloride (PVC) resin. Uses include hot & cold water pipes, and industrial liquid handling.

## Application:

- Hot & Cold Water Distribution in Residential, Industrial & Public Projects.
- Carrying Drinking Water and Food Liquids.
- Water and Waste Water Treatment Systems.
- Transportation of Chemical & Hot Corrosive Fluids, Which Includes a Wide Variety of Inorganic Acids, Bases used in Chemical Processing.
- Use in Industries like Metal Finishing, Plating and Treatment, Pulp & Paper, Air Pollution Control, Mining, Aerospace, Textile, Food & Beverage Processing, Fine Sprinkler Piping Municipal Projects.
- Used as High Tension Cable Protection Pipe for Electric Net Improvement (Large dia. CPVC Pipes).
- Solar Heating, Central Heating and Radiant Floor Heating Application.



## Advantages

- cPVC has Excellent Resistance to Chemicals, Corrosion and Abrasion
- cPVC Pipe has a Smooth, Friction Free Inner Bore Which Results in High Flow Rate, Less Opportunity for Bacteria Growth and Almost Completely Eliminates the Scale Build-up in the Piping System
- cPVC Pipe is Energy Efficient has Lower Thermal Conductivity and Insulation Cost.
- cPVC Pipe is Particularity Suitable for the Conveyance of Desalinized / Dematerialized Water Where Serious Corrosion Problem Resulting in Narrowing of the Bore are Experienced in the Galvanized Steel Pipe.
  - Unlike Copper or Other Metal Pipes, cPVC Plumbing Pipe will not Rust, Pit or Scale.
  - cPVC Pipe is Extremely Fire Resistant.
  - Non-toxic and Environment Friendly.
  - cPVC Pipe is Joined in Exactly the Same Way as Rigid PVC Pipe Using cPVC Solvent Cement, Which Makes Installation Easy.





# cPVC Specification

## AS PER ASTM F-441

### cPVC Pipes Schedule 40

S#.	Size (inch)	Outside Dia (mm)		Wall Thickness (mm)		Length (Meters)	Weight (Kgs)		Pressure Rating PSI (MPa)
		Min	Max	Min	Max		Min	Max	
1	1/4"	13.6	13.8	2.24	2.75	6	0.7	0.9	780(5.38)
2	3/8"	17	17.2	2.31	2.82	6	1	1.2	620(4.27)
3	1/2"	21.2	21.4	2.77	3.28	6	1.46	1.7	600(4.14)
4	3/4"	26.6	26.8	2.87	3.38	6	1.95	2.26	480(3.31)
5	1"	33.27	33.53	3.38	3.89	6	2.85	3.3	450(3.10)
6	1 1/4"	42.07	42.33	3.56	4.07	6	3.9	4.5	370(2.55)
7	1 1/2"	48.15	48.45	3.68	4.19	6	4.7	5.3	330(2.27)
8	2"	60.15	60.45	3.91	4.42	6	6.3	7.1	280(1.93)
9	2 1/2"	72.82	73.18	5.16	5.77	6	10	11	300(2.06)
10	3"	88.7	89.1	5.49	6.15	6	13	15	260(1.79)
11	3 1/2"	101.4	101.8	5.74	6.42	6	16	18	240(1.65)
12	4"	114.1	114.53	6.52	6.73	6	19	21	220(1.51)
13	5"	141.1	141.55	6.55	7.34	6	25	28	190(1.31)
14	6"	168	168.58	7.11	7.97	6	33	37	180(1.24)
15	8"	218.3	219.48	8.18	9.17	6	49	55	160(1.10)
16	10"	272.7	273.48	9.27	10.39	6	70	78	140(0.96)
17	12"	323.5	324.28	10.31	11.55	6	93	104	130(0.89)

### cPVC Pipes Schedule 80

S#.	Size (inch)	Outside Dia (mm)		Wall Thickness (mm)		Length (Meters)	Weight (Kgs)		Pressure Rating PSI (MPa)
		Min	Max	Min	Max		Min	Max	
1	1/4"	13.5	13.9	3.02	3.53	6	0.9	1.04	1130(7.79)
2	3/8"	16.9	17.3	3.2	3.71	6	1.25	1.44	920(6.34)
3	1/2"	21.1	21.5	3.73	4.24	6	1.85	2	850(5.86)
4	3/4"	26.45	26.95	3.91	4.42	6	2.52	2.85	690(4.75)
5	1"	33.15	33.65	4.55	5.08	6	3.72	4.15	630(4.34)
6	1 1/4"	41.9	42.5	4.85	5.43	6	5.14	5.76	520(3.58)
7	1 1/2"	48	48.6	5.08	5.69	6	6.24	6.99	470(3.24)
8	2"	60	60.6	5.54	6.2	6	8.64	9.66	400(2.75)
9	2 1/2"	72.62	73.38	7.01	7.85	6	13.17	14.74	420(2.89)
10	3"	88.52	89.28	7.62	8.53	6	17.66	19.73	370(2.55)
11	3 1/2"	101.2	102	8.08	9.04	6	21.56	24.07	350(2.41)
12	4"	113.9	114.7	8.56	9.58	6	25.84	28.85	320(2.21)
13	5"	140.5	142.7	9.52	10.66	6	35.74	40.13	290(2.00)
14	6"	166.5	169.2	10.97	12.29	6	48.89	55.25	280(1.93)
15	8"	218	220.2	12.7	14.22	6	74.69	83.94	250(1.72)
16	10"	271.8	274.4	15.06	16.86	6	110.8	124.4	230(1.59)
17	12"	322.4	325.4	17.45	19.53	6	152.5	171.2	230(1.59)

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# Why PE Pipe & Fitting

## PE

Polyethylene was first synthesized by the German Chemist Hans Von Pechmann, who prepared it by accident in 1898 while Investigating Diazomethane.

When his colleagues Eugen Bamberger and Friedrich Tschirner characterized the white, waxy substance that he had created, they recognized that it contained long  $-CH_2-$  chains and termed it Polymethylene.

## Application

- Oil & Gas
- Fiber Optic Cable Ducting
- Sewerage Lines
- Drip Irrigation
- House Connections
- Chilled Water Piping
- Drinking Water Supply
- Film Processing
- Chemical Production
- Pharmaceutical Industries



## Advantages

- Resistant to Corrosion, Abrasion.
- No Growth of Bacteria, Algae & Fungus.
- Suitable for Extreme Weather Conditions.
- Easy Installation.
  - Maintenance Free, Durable & Long Life.
  - Non-Toxic and Non-Conductive.



## Properties

- Smooth Internal Bore.
- Fusible / Weldable.
  - Easy Joining & Handling, Leading to Reduced Cost.
  - Ultra Violet Resistance.
  - Flexible.
  - Corrosion Free.
  - Easy Repair in Ravel Events of Damage. No Outer Painting Required.
  - Outstanding Ability to Withstand Rapid Crack Propagation
    - (RCP) High Resistance to Crack Growth.



# PE 100 PIPE DIMENSION CONFORMING TO ISO 4427, DIN 8074 & PREN 12201 SPECIFICATION

## DESIGN STRESS=8 MPA

		Pipe Series																	
PN:	PN4		PN 6.4		PN8		PN10		PN12.5		PN16		PN20		PN25		PN32		
SDR:	41		26		21		17		13.6		11		9		7.4		6		
Dn:	En	Mass In kg/m	En	Mass In kg/m	En	Mass In kg/m	En	Mass In kg/m	En	Mass In kg/m	En	Mass In kg/m	En	Mass In kg/m	En	Mass In kg/m	En	Mass In kg/m	
	10 mm																		1.8
12 mm																1.8	0.060	2.0	0.064
16 mm														1.8	0.084	2.2	0.099	2.7	0.115
20 mm									1.8	0.107	1.9	0.112	2.3	0.133	2.8	0.154	3.4	0.180	
25 mm							1.8	0.137	1.9	0.144	2.3	0.171	2.8	0.200	3.5	0.240	4.2	0.278	
32 mm							1.9	0.187	2.4	0.232	2.9	0.272	3.6	0.327	4.4	0.386	5.4	0.454	
40 mm			1.8	0.227	1.9	0.239	2.4	0.295	3.0	0.356	3.7	0.430	4.5	0.509	5.5	0.600	6.7	0.701	
50 mm			2.0	0.314	2.4	0.374	3.0	0.453	3.7	0.549	4.6	0.666	5.8	0.788	6.9	0.936	8.3	1.09	
63 mm	1.8	0.364	2.5	0.494	3.0	0.580	3.8	0.721	4.7	0.873	5.8	1.05	7.1	1.26	8.6	1.47	10.5	1.73	
75 mm	1.9	0.457	2.9	0.675	3.6	0.828	4.5	1.02	5.6	1.24	6.8	1.47	8.4	1.76	10.3	2.09	12.5	2.44	
90 mm	2.2	0.643	3.5	0.978	4.3	1.18	5.4	1.46	6.7	1.77	8.2	2.12	10.1	2.54	12.3	3.00	15.0	3.51	
110 mm	2.7	0.943	4.2	1.43	5.3	1.77	6.6	2.17	8.1	2.62	10.0	3.14	12.3	3.78	15.1	4.49	18.3	5.24	
125 mm	3.1	1.23	4.8	1.84	6.0	2.27	7.4	2.76	9.2	3.37	11.4	4.08	14.0	4.87	17.5	5.77	20.8	6.75	
140 mm	3.5	1.54	5.4	2.32	6.7	2.83	8.3	3.46	10.3	4.22	12.7	5.08	15.7	6.11	19.2	7.25	23.3	8.47	
160 mm	4.0	2.00	6.2	3.04	7.7	3.72	9.5	4.52	11.8	5.50	14.6	6.67	17.9	7.96	21.9	9.44	26.6	11.0	
180 mm	4.4	2.49	6.9	3.79	8.6	4.67	10.7	5.71	13.3	6.98	16.4	8.42	20.1	10.1	24.6	11.9	29.9	14.0	
200 mm	4.9	3.05	7.7	4.69	9.6	5.78	11.9	7.05	14.7	8.56	18.2	10.4	22.4	12.4	27.4	14.8	33.2	17.2	
225 mm	5.5	3.86	8.6	5.89	10.8	7.30	13.4	8.93	16.6	10.9	20.5	13.1	25.2	15.8	30.8	18.6	37.4	21.8	
250 mm	6.2	4.83	9.6	7.30	11.9	8.93	14.8	11.0	18.4	13.4	22.7	16.2	27.9	19.4	34.2	23.0	41.6	27.0	
280 mm	6.9	5.98	10.7	9.10	13.4	11.3	16.6	13.7	20.6	16.8	25.4	20.3	31.3	24.3	38.3	28.9	46.5	33.8	
315 mm	7.7	7.52	12.1	11.6	15.0	14.2	18.7	17.4	23.2	21.2	28.6	25.6	35.2	30.8	43.1	36.5	52.3	42.7	
355 mm	8.7	9.55	13.6	14.6	16.9	18.0	21.1	22.1	26.1	26.9	32.2	32.5	39.7	39.1	48.5	46.3	59.0	54.3	
400 mm	9.8	12.1	15.3	18.6	19.1	22.9	23.7	28.0	29.4	34.1	36.3	41.3	44.7	49.6	54.7	58.8	66.5	68.9	
450 mm	11.0	15.3	17.2	23.5	21.5	28.9	26.7	35.4	33.1	43.2	40.9	52.3	50.3	62.7	61.5	74.4			
500 mm	12.3	19.09	19.0	29.16	23.90	36.07	29.7	44.18	36.8	53.84	45.4	65.13							
560 mm	13.7	23.78	21.4	36.55	26.7	45.07	32.2	55.34	41.20	67.55	50.80	81.80							
630 mm	15.40	30.07	24.10	46.31	30.00	56.95	37.40	70.09	46.30	87.50	57.20	103.40							
710 mm	17.40	38.47	27.20	54.00	33.90	72.60	42.10	89.00	52.20	109.00	64.50	131.00							
800 mm	19.60	48.40	30.60	74.70	36.10	42.00	47.40	113.00	58.80	138.00									
900 mm	22.00	61.30	34.40	94.40	42.90	116.00	53.13	143.00	66.90	174.00									
1000 mm	24.50	75.90	38.20	117.00	47.70	144.00	57.30	174.00											
1200 mm	29.40	109	45.90	168	57.20	207													

SDR: Standard Dimension Ratio.

Dn: Nominal Outside Diameter of the pipe.

En: Nominal Wall Thickness.

PN: Nominal Pressure Rating (bar).

1. Developed in the 1990's, PE-100 is the new generation grade with even better Strength and more flow.
2. MDPE (Medium Density Polyethylene) of the different grades are used for the manufacturing of gas pipe and cable ducting pipes.

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# Why uPVC Pressure Pipes & Fitting

## Applications

- Pot Water, Soil, Waste, Rain Water
- Ultra Pure Water and Sewage Treatment Plant
- Swimming Pools
- Air Conditioning Refrigeration
- Food and Beverage processing
- R. O. Plants
- Water Irrigation
- Cable & Telecommunication



## Advantages

- Long Life, Design Life of 50 Years According to ISO
- Low Transportation and Handling Cost
- No Scaling or Deposition of Material
- Can Resist Wide Range of Chemicals
- Does Not Promote Fire
- Reduce Chances of Short Circuit
- Can be Installed Both Inside and Outside
  - Reduces Jointing and Labor Cost
  - Quick & Easy Installation
  - Maintenance Free





# uPVC PRESSURE PIPE SPECIFICATION AS PER BS-3505 (PS-3051/91)

Nominal Size	Mean Outside Diameter		Wall Thickness											
			Class B			Class C			Class D			Class E		
			6 Bar			9 Bar			12 Bar			15 Bar		
Inch	Min.	Max.	Average Value	Individual Value		Average Value	Individual Value		Average Value	Individual Value		Average Value	Individual Value	
	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	2.5	3	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	3.0	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	5.5	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	12.10	10.8	12.5
7"	193.5	194.0	6.0	5.2	6.0	8.7	7.7	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	8.7	10.0	12.9	11.5	13.3	15.8	14.1	16.8
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	406.9	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	508.5	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	24.1	21.7	25.0	-	-	-	-	-	-

1. The pipe Dimension are in metric unit. However the given nominal (Diameters) Size of Pipe are in inches.
2. Pipe length= 3m, 4m, & 6m (Above 6m, Pipe can be Manufactured on special request of customer)
3. Pipes are normally socketed at one end & both ends plain also available.

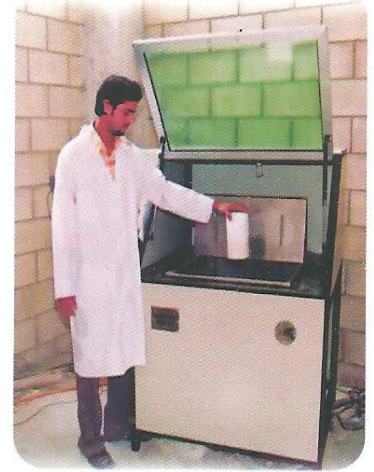




# Quality

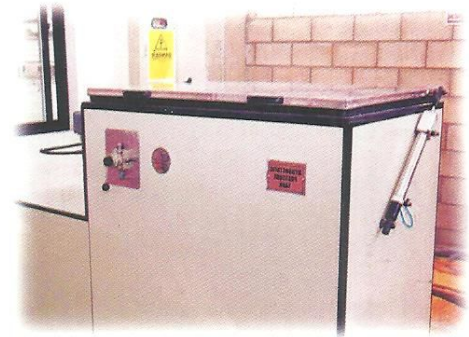
## Quality Assurance

EG Pipes and Fittings are guaranteed to have satisfied the required scales and standard. We have been awarded a certificate of ISO 9001-2015. Apart from uPVC resin which is purchased from ENGRO, the sole manufacturer in Pakistan, all its raw material is imported from most renowned companies in the world such as Tasnee, Sabic, Borouge, Basell and Lubrizol. EG pipes and fittings are designed to meet various climate conditions of any area. Right quality at every stage, from raw material to finish good is ensured and then each batch of our production is passed through intensive testing and monitoring in our highly equipped lab. some of the tests that our quality control team conduct are:



## Lab Testing Facility:

- Impact Test
- Hydrostatic Pressure Test
- Heat Reversion Test
- Opacity Test
- Methylene Chloride Test
- Pipe Weight and Dimension
- De-lamination Test
- Fracture Toughness
- Specific Gravity
- Tensile Strength
- Charpy Impact Test
- Melt Flow Index





# Certificates



## Certification:

- ISO: International Organization for Standardization.
- PSQCA: Pakistan Standards And Quality Control Authority.
- PEC: Pakistan Engineering Council.
- PCSIR: Pakistan Council of Scientific and Industrial Research.
- PTC: Plastics Technology Centre.

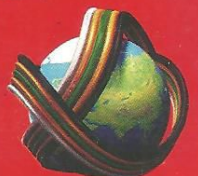
## Pre-Qualified By:

- KW&SB: Karachi Water and Sewerage Board .
- DHA: Pakistan Defence Officers Housing Authority.
- HDA: Hyderabad Development Authority.
- CDGK: City District Government Karachi.
- MDA: Malir Development Authority.
- PHED: Public Health Engineering Department. (Sindh, Baluchistan & Hyderabad)
- CBC: Cantonment Board Clifton.
- WASA: Water supply and sanitation Authority.

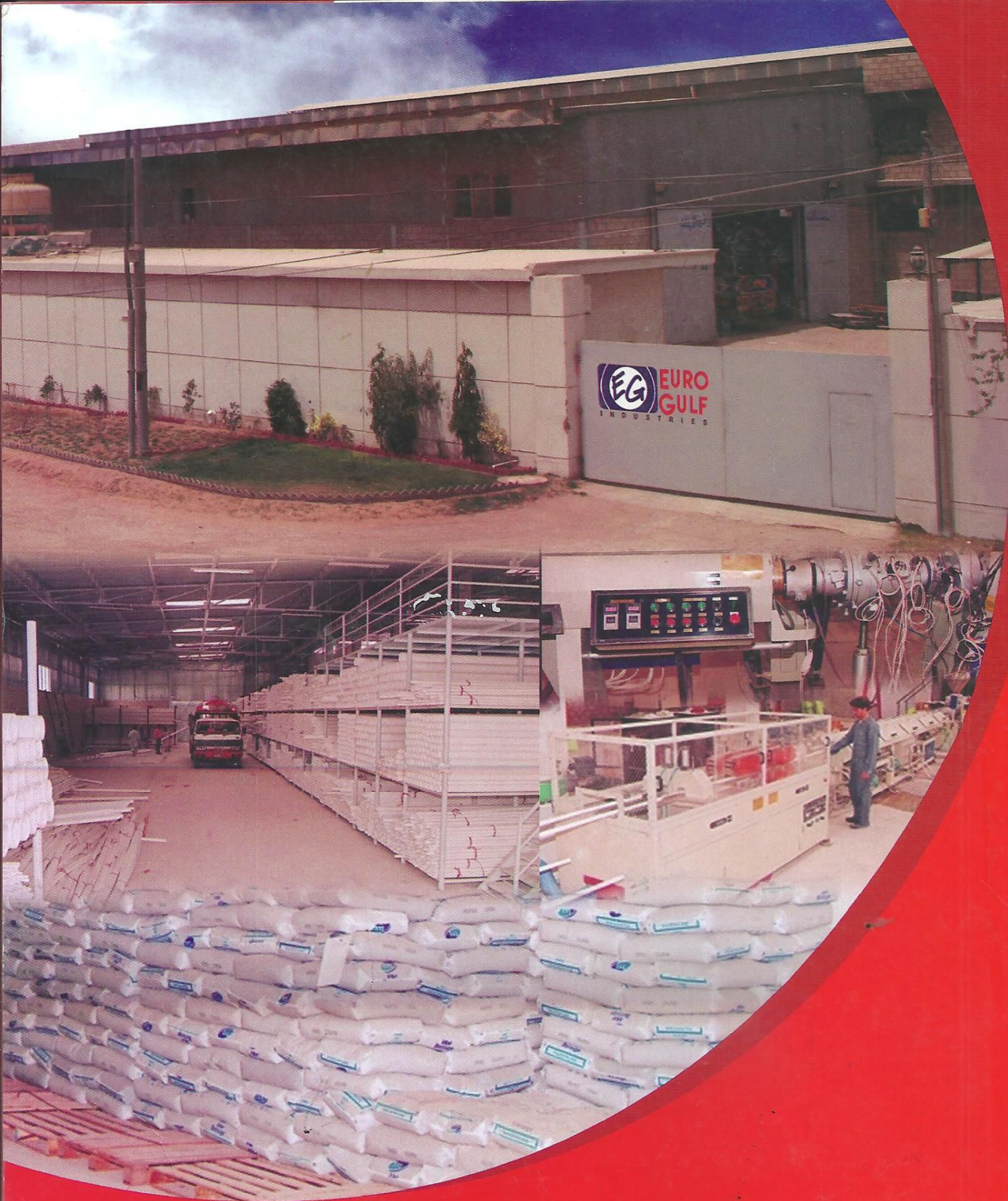
## Test Conducted at Different Laboratories:

- PCSIR: Pakistan Council of Scientific and Industrial Research.
- PSQCA: Pakistan Standards And Quality Control Authority.
- PTC: Plastics Technology Centre.

Piping *the* new world







## Euro Gulf Industries

Factory D-60, S.I.T.E., Phase 1, Off. Super Highway, Karachi.

Tel: (+92-21) 36880145-6, 36880290-91 Fax: (+92-21) 36881569

E-mail: [mails@egpipes.com](mailto:mails@egpipes.com) [sales@egpipes.com](mailto:sales@egpipes.com)

Web: [www.egpipes.com](http://www.egpipes.com)

