



**POPULAR**  
**GREEN**  
*Products*

**Sustainable Solutions for a  
Healthier Tomorrow**



# WORDS OF FOUNDING FATHER

Pipe Industry in Pakistan was Revolutionized in 1975 by the Vision of Late Haji Sheikh M. Rafiq.

“Pipe is an element of great significance in the construction industry but it lacks the desired quality. Hence, there is a need to introduce high quality pipes in the construction sector as the idea is to change the value system as a whole.

– Late Haji Sheikh M. Rafiq (RA)

 **5 Decades**  
of Winning Trust &  
Confidence of Pakistanis

 **Production**  
State of the Art  
Facility with Latest  
Technology

 **Leader**  
with Widest  
Business Network

## PROUDLY EXPORTING FROM PAKISTAN TO

 |  |  | 

— Internationally Certified —



## Approvals & Certifications

- Infrastructure Development Authority (IDAP)
- Communication & Works Department (C&W)
- Housing Urban Development (HUD)
- Public Health Engineering Department (PHED)
- Lahore Development Authority (LDA)
- National Highway Authority (NHA)
- Sui Northern Gas Pipelines Limited (SNGPL)
- National Engineering Services of Pakistan (NESPAK)
- Pakistan Standards and Quality Control Authority (PSQCA)
- Pakistan Engineering Council (PEC)
- Intellectual Property Organization Pakistan
- The Lahore Chamber of Commerce & Industry
- Frontier Works Organization (FWO)
- Army Housing Directorate - AG's Branch General Headquarters, Rawalpindi
- Military Engineer Services, Pakistan (MES)
- DHA Karachi, Lahore, Multan, Bahawalpur, Gujranwala, Islamabad, Peshawar and Quetta
- Fauji Foundation
- Pakistan Atomic Energy Commission
- National Textile University, Karachi
- University of Engineering and Technology Lahore (UET)



# THE JOURNEY OF BECOMING

PAKISTAN'S MOST POPULAR CHOICE

INDUCTION INTO TOP  
Since 2021

# 1000

CEO  
TODAY  
MAGAZINE

CEO  
CLUB  
PAKISTAN

PERFORMING COMPANIES OF PAKISTAN



## Brand of the Year Award

2009-2010-2011-2013-2021-2022-2023-2024  
in UPVC & PPR Pipes & Fittings



## Fastest Growing Brand of the Year Award

2022  
in UPVC & PPR Pipes & Fittings

## Brand Icon of Pakistan

2011-2012-2022  
in UPVC & PPR Pipes & Fittings

## LCCI Business Award

2021-2022-2023



PAKISTAN'S



17<sup>TH</sup>  
CONSUMERS  
CHOICE  
AWARDS | 2023

**st**  
INTERNATIONALLY  
CERTIFIED  
PPR MANUFACTURER  
**WRAS**  
CERTIFIED







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# PPR-100 Pipes & Fittings

DIN 8077/8078, DIN 16962, EN ISO 15874

Hygenically Safe - WRAS Certified  
Food Grade 100% Virgin Material  
Suitable for Hot & Cold Water



## Hot & Cold Water Distribution System

OUTER DIAMETER		PN-16 Wall Thickness		PN-20 Wall Thickness		PN-25 Wall Thickness	
MIN. mm	MAX. mm	MIN. mm	MAX. mm	MIN. mm	MAX. mm	MIN. mm	MAX. mm
20	20.3	2.8	3.3	3.4	4.0	4.1	4.8
25	25.3	3.5	4.1	4.2	4.9	5.1	5.9
32	32.3	4.4	5.1	5.4	6.2	6.5	7.4
40	40.4	5.5	6.3	6.7	8.6	8.1	9.2
50	50.5	6.9	7.8	8.3	9.4	10.1	11.4
63	63.6	8.6	9.7	10.5	11.8	12.7	14.2
75	75.7	10.3	11.6	12.5	13.9	14.3	16.1
90	90.9	12.3	13.1	15.0	16.7	N/A	N/A
110	110.9	15.1	16.9	18.3	20.1	N/A	N/A

## Allowable Operating Pressure

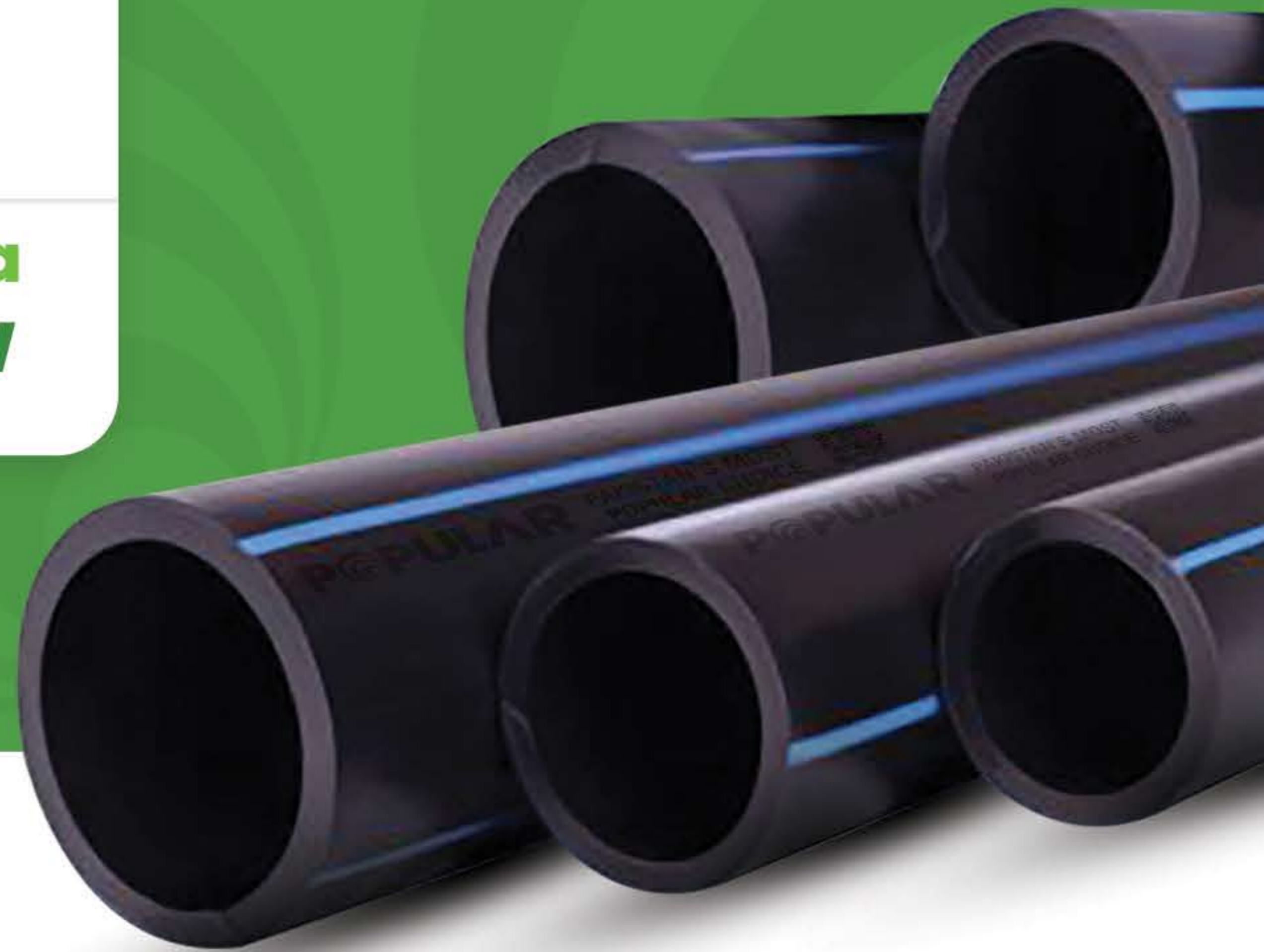
TEMPERATURE	TIME OF SERVICE	PN-16		PN-20		PN-25	
		BAR	PSI	BAR	PSI	BAR	PSI
ALLOWABLE OPERATING PRESSURE							
*C	YEARS	BAR	PSI	BAR	PSI	BAR	PSI
20	100	19.9	288.6	25.0	362.5	31.5	456.8
30	100	16.8	243.6	21.1	306.0	26.6	385.7
40	100	14.1	204.5	17.8	258.1	22.4	324.8
50	100	11.8	171.1	14.9	216.1	18.8	272.6
60	50	10.2	147.9	12.9	187.1	16.2	234.9
70	50	6.7	97.2	8.5	123.3	10.7	155.2
80	25	5.1	74.0	6.5	94.3	8.1	117.5





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# HDPE-100 Pipes

ISO 4427, DIN 8074/8075 & PS 3580

Hygenically Safe - WRAS Certified  
 Food Grade 100% Virgin Material  
 Tear and Pressure Resistant  
 Durable | Long Life | UV Resistant



Dimension Ratio	SDR 21	SDR 17	SDR 13.6	SDR 11
	PN8	PN10	PN12.5	PN16
OUTSIDE DIAMETER (mm)	Wall Thickness (mm)	Wall Thickness (mm)	Wall Thickness (mm)	Wall Thickness (mm)
20	N/A	N/A	N/A	2.0
25	N/A	1.8	2.0	2.3
32	N/A	2.0	2.4	3.0
40	2.0	2.4	3.0	3.7
50	2.4	3.0	3.7	4.6
63	3.0	3.8	4.7	5.8
75	3.6	4.5	5.6	6.8
90	4.3	5.4	6.7	8.2
110	5.3	6.6	8.1	10.0
125	6.0	7.4	9.2	11.4
140	6.7	8.3	10.3	12.7
160	7.7	9.5	11.8	14.6
180	8.6	10.7	13.3	16.4
200	9.6	11.9	14.7	18.2
225	10.8	13.4	16.6	20.5
250	11.9	14.8	18.1	22.7
280	13.4	16.6	20.6	25.4
315	15.0	18.7	23.2	28.6
355	16.9	21.1	26.1	32.2
400	19.1	23.7	29.4	36.3
450	21.5	26.7	33.1	40.9





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# U-PVC Pressure Rated

## Pipes

**ASTM D-2241, ASTM D-2466**

Resistant to bacterial growth, algae & fungi

Free from decomposition

Eco Friendly

Durable

It does not affect the color, taste & odor of water

MATERIAL PROPERTIES		
Unplasticized Polyvinyl Chloride (UPVC)		
Specific Gravity	1.42 - 1.46	gm/cm <sup>3</sup>
Flammability	Self Extinguishing	-

## Standard Dimension Ratio Series As Per ASTM D-2241

Nominal Pipe Size (in)	Dimension and Minimum Wall Thickness																				
	SDR 64			SDR 41			SDR 32.5			SDR 26			SDR 21			SDR 17			SDR 13.5		
	Wall Thickness		Pipes/Bundle	Wall Thickness		Pipes/Bundle	Wall Thickness		Pipes/Bundle	Wall Thickness		Pipes/Bundle	Wall Thickness		Pipes/Bundle	Wall Thickness		Pipes/Bundle	Wall Thickness		Pipes/Bundle
	Min	Max		Min	Max		Min	Max		Min	Max		Min	Max		Min	Max		Min	Max	
1/2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1.57	2.08	35			
3/4	.	.	.	.	.	.	.	.	.	35	1.52	2.03	35	1.57	2.08	35	1.98	2.49	25		
1	.	.	.	.	.	.	.	.	.	1.52	2.03	25	1.60	2.11	25	1.96	2.46	25	2.46	2.97	15
1 1/4	.	.	.	.	.	.	1.52	2.03	20	1.63	2.13	20	2.01	2.51	20	2.49	3.00	20	3.12	3.63	20
1 1/2	.	.	.	.	.	.	1.52	2.03	15	1.85	2.36	15	2.29	2.79	15	2.84	3.35	15	3.58	4.09	15
2	.	.	.	.	.	.	1.85	2.36	15	2.31	2.82	10	2.87	3.38	10	3.56	4.06	10	4.47	4.98	10
3	.	.	.	2.16	2.67	7	2.74	3.25	7	3.43	3.94	5	4.24	4.75	5	5.23	5.87	5	6.58	7.37	5
4	1.78	2.29	5	2.79	3.30	5	3.51	4.01	5	4.39	5.05	3	5.44	6.10	3	6.73	7.54	3	8.46	9.47	3
6	2.64	3.15	1	4.11	4.62	1	5.18	5.79	1	6.48	7.44	1	8.03	8.99	1	9.91	11.10	1	12.47	13.97	1
8	3.43	3.94	1	5.33	5.97	1	6.73	7.54	1	8.43	9.68	1	10.41	11.66	1	12.90	14.45	1	.	.	.
10	4.27	4.78	1	6.65	7.44	1	8.41	9.42	1	10.49	12.04	1	12.98	14.53	1	16.05	17.98	1	.	.	.
12	5.05	5.66	1	7.90	8.84	1	9.96	11.15	1	12.45	14.30	1	15.39	17.25	1	19.05	21.34	1	.	.	.
Pressure Rating	4.3 Bar (63 PSI)			6.9 Bar (100 PSI)			8.6 Bar (125 PSI)			11 Bar (160 PSI)			13.8 Bar (200 PSI)			17.2 Bar (250 PSI)			21.7 Bar (315 PSI)		
Testing Pressure	13.8 Bar (200 PSI)			21.7 Bar (315 PSI)			27.6 Bar (400 PSI)			34.5 Bar (500 PSI)			43.4 Bar (630 PSI)			55.2 Bar (800 PSI)			68.9 Bar (1000 PSI)		





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## U-PVC Pipes Sch.40/80

ASTM D-1785

Durable | High Mechanical Strength

Pressure Rated | Eco Friendly

It does not affect the color, taste & odor of water

### MATERIAL PROPERTIES

Unplasticized Polyvinyl Chloride (UPVC)

Specific Gravity	1.42 - 1.46	gm/cm <sup>3</sup>
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Flammability	Self Extinguishing	-
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### SCH.40 For Low Pressure Water Applications

Nominal Pipe Size (in)	Dimensions & Wall Thickness Chart					PSI	Pipes / Bundle
	Outer Dia		Wall Thickness (mm)				
	Min	Max	Min	Max			
1-1/2	48.10	48.40	3.68	4.19	330	15	
2	60.20	60.50	3.91	4.42	280	10	
3	88.70	89.10	5.49	6.15	260	5	
4	114.10	114.50	6.02	6.73	220	3	
6	168.00	168.50	7.11	7.97	180	1	
8	218.80	219.40	8.18	9.20	160	1	
10	272.60	273.40	9.27	10.30	140	1	
12	323.40	324.20	10.31	11.55	130	1	
14	355.20	356.00	11.10	12.45	130	1	

### SCH.80 For High Pressure Water Applications

Nominal Pipe Size (in)	Dimensions & Wall Thickness Chart					PSI	Pipes / Bundle
	Outer Dia (mm)		Wall Thickness (mm)				
	Min	Max	Min	Max			
1-1/2	48.10	48.40	5.08	5.69	470	15	
2	60.20	60.50	5.54	6.20	400	10	
3	88.70	89.10	7.62	8.53	370	5	
4	114.10	114.50	8.56	9.24	320	3	
6	168.00	168.50	10.97	12.29	280	1	
8	218.80	219.40	12.70	14.20	250	1	
10	272.60	273.40	15.00	16.80	230	1	
12	323.40	324.20	17.45	19.53	230	1	
14	355.20	356.00	19.05	21.34	220	1	





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# U-PVC Pipe Pressure Rated

**B, C, D & E Class BS-3505 equivalent to PS-3051/91**

Free from decomposition & corrosion

Eco Friendly

Durable

It does not affect the color, taste & odor of water

## MATERIAL PROPERTIES

Unplasticized Polyvinyl Chloride (UPVC)		
Specific Gravity	1.42 - 1.46	gm/cm <sup>3</sup>
Flammability	Self Extinguishing	-

Nominal Size	MEAN OUTSIDE DIAMETER		WALL THICKNESS									
			Class-B (6-Bar)		Class-C (9-Bar)		Class-D (12-Bar)		Class-E (15 bar)			
	INCH	MIN.	MAX.	Individual Value		Individual Value		Individual Value		Individual Value		
	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
Inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
3/8"	17.0	17.3	N/A	N/A	N/A	N/A	N/A	N/A	1.5	1.9		
1/2"	21.2	21.5	N/A	N/A	N/A	N/A	N/A	N/A	1.7	2.1		
3/4"	26.6	26.9	N/A	N/A	N/A	N/A	N/A	N/A	1.9	2.5		
1"	33.4	33.7	N/A	N/A	N/A	N/A	N/A	N/A	2.2	2.7		
1 1/4"	42.1	42.4	N/A	N/A	N/A	N/A	2.2	2.7	2.7	3.2		
1 1/2"	48.1	48.4	N/A	N/A	N/A	N/A	2.5	3.0	3.1	3.7		
2"	60.2	60.5	N/A	N/A	2.5	3.0	3.1	3.7	3.9	4.5		
2 1/2"	75.0	75.3	N/A	N/A	3.0	3.5	3.9	4.5	4.8	5.5		
3"	88.7	89.1	2.9	3.4	3.5	4.1	4.6	5.3	5.7	6.6		
4"	114.1	114.5	3.4	4.0	4.5	5.2	6.0	6.9	7.3	8.4		
5"	140.0	140.4	3.8	4.4	5.5	6.4	7.3	8.4	9.0	10.4		
6"	168.0	168.5	4.5	5.2	6.6	7.6	8.8	10.2	10.8	12.5		
7"	193.5	194.0	5.2	6.0	7.7	8.9	10.1	11.7	12.4	14.3		
8"	218.8	219.4	5.3	6.1	7.8	9.0	10.3	11.9	12.6	14.5		
9"	244.1	244.8	5.9	6.8	8.7	10.0	11.5	13.3	14.1	16.3		
10"	272.6	273.4	6.6	7.6	9.7	11.2	12.8	14.8	15.7	18.1		
12"	323.4	324.3	7.8	9.0	11.5	13.3	15.2	17.5	18.7	21.6		
14"	355.0	356.0	8.5	9.8	12.6	14.5	16.7	19.2	20.5	23.6		

## Maximum Sustained Working & Field Test Pressure

WORKING PRESSURE			
CLASS	BAR	Kgf/Cm <sup>2</sup>	lbf/in <sup>2</sup>
B	6	6.12	87
C	9	9.18	130
D	12	12.25	173
E	15	15.30	217

FIELD TEST PRESSURE AT 20°			
CLASS	BAR	Kgf/Cm <sup>2</sup>	lbf/in <sup>2</sup>
B	9	9.18	130
C	14	13.77	195
D	18	18.38	259
E	23	22.95	325





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# Water Tank

زندگی بھر کے لئے

## 5 Layers Protection

- 1st | UV Layer - Reflects Sunlight
- 2nd | HA Layer - Heat Absorption Layer
- 3rd | DC Layer - Differential & Coolant
- 4th | OP Layer - Opacity Layer
- 5th | HP Layer - Hygiene Protection Layer

Size Range: 400L | 600L | 800L  
1000L | 1200L | 2000L

**POPULAR**  
**BOARD**  
PVC



## PVC Vanity



“ WE DELIVER EXPERIENCE  
NOT JUST A PRODUCT ”





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[www.popularpipesgroup.com](http://www.popularpipesgroup.com)



**INSTAGRAM**



**FACBOOK**

