

SHK[®]

PPR Pipes & Fittings

The Most Efficient Replacement of MS & CPVC Pipes

Under One Roof



www.shkpolymers.com



ISO 9001 - 2015 certified company



ABOUT US

SHK Polymers Industries Pvt. Ltd. stands at the forefront of advanced piping solutions, combining over four decades of industry expertise with a forward-looking commitment to sustainable infrastructure. As a trusted manufacturer of high-performance PPR-C and HDPE piping systems, we deliver engineered solutions that meet the evolving demands of modern construction, real estate, and industrial applications.

Driven by precision manufacturing and certified under ISO 9001:2008, our products are developed in compliance with globally recognized standards such as IS 15801:2008, DIN 16962 & DIN 8077, and IS 4984. Our PPR-C piping systems are available from 20 mm to 500 mm across PN10, PN16, and PN20 ratings and designed for superior thermal resistance, pressure handling, and long service life, making them ideal for HVAC systems, hot and cold-water distribution, compressed air, and chemical conveyance. At SHK, sustainability is not an add-on; it is embedded in our engineering philosophy. Our piping solutions are corrosion-resistant, energy-efficient, and contribute to a significantly lower CO₂ footprint over their lifecycle.

Backed by state-of-the-art manufacturing facilities, advanced automation, and in-house quality testing, SHK Polymers ensures consistent performance, reliability, and compliance with both Indian and international benchmarks.

A range of size available: PPR-C Pipes in size: 20 mm to 500 mm

PPR-C Fittings in size: 20 mm to 200 mm (Socket Fusion) & 250 mm to 500 mm (Butt Welded)

STANDARD SIZES OF PPR-C WITH WALL THICKNESS

MS PIPE SIZING	OUTER DIAMETER (PPR PIPES) (MM)	SIZE DETAILS ACCORDING TO INCH	SDR11/PN10			SDR7.4/PN16			SDR6/PN20		
			THICKNESS	INNER DIAMETER	KG/Meter	THICKNESS	INNER DIAMETER	KG/Meter	THICKNESS	INNER DIAMETER	KG/Meter
15 MM	20	1/2"	1.9	16.2	0.107	2.8	14.4	0.148	3.4	13.2	0.172
20 MM	25	3/4"	2.3	20.4	0.164	3.5	18.0	0.230	4.2	16.6	0.266
25 MM	32	1"	2.9	26.2	0.261	4.4	23.2	0.370	5.4	21.2	0.434
32 MM	40	1 1/4"	3.7	32.6	0.412	5.5	29.0	0.575	6.7	26.6	0.671
40 MM	50	1 1/2"	4.6	40.8	0.638	6.9	36.2	0.896	8.3	33.4	1.040
50 MM	63	2"	5.8	51.4	1.010	8.6	45.8	1.410	10.5	42.0	1.650
65 MM	75	2 1/2"	6.8	61.4	1.410	10.3	54.4	2.010	12.5	50.0	2.340
80 MM	90	3"	8.2	73.6	2.030	12.3	65.4	2.870	15.0	60.0	3.360
100 MM	110	4"	10.0	90.0	3.010	15.1	79.8	4.300	18.3	73.4	5.010
125 MM	125	5"	11.4	102.2	3.910	17.1	90.8	5.530	20.8	83.4	6.470
150 MM	160	6"	14.6	130.8	6.380	21.9	116.2	9.040	26.6	106.8	10.600
200 MM	200	8"	18.2	163.6	9.920	27.4	145.2	14.180	34.0	132.0	17.150

MS PIPE SIZING	OUTER DIAMETER (PPR PIPES) (MM)	SIZE DETAILS ACCORDING TO INCHES	SDR17/PN6			SDR13.6/PN8			SDR11/PN10		
			THICKNESS	INNER DIAMETER	KG/Meter	THICKNESS	INNER DIAMETER	KG/Meter	THICKNESS	INNER DIAMETER	KG/Meter
200 MM	200	8"	11.4	177.6	7.050	14.7	170.6	8.27	18.2	163.6	9.920
250 MM	250	10"	14.2	221.6	10.940	18.4	213.2	13.30	22.7	204.6	15.528
300 MM	315	12"	17.9	279.2	17.572	23.3	268.4	21.19	28.6	257.8	24.683
400 MM	400	16"	23.5	353.0	28.060						
450 MM	450	18"	25.5	399.0	32.500						
500 MM	500	20"	28.4	443.2	40.200						

Note : All Dimensions are in MM.

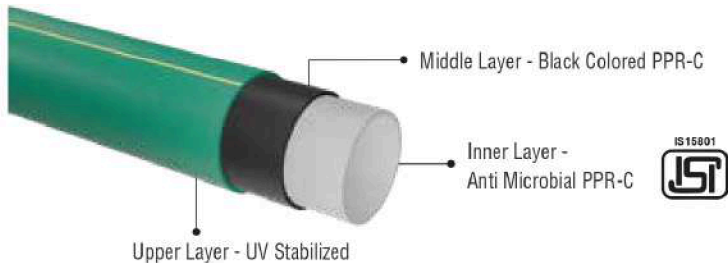
SDR Means Standard Dimensional Ratio which is THE RATIO OF OUTER DIAMETER WITH THE THICKNESS OF THE PIPES.

AVAILABLE COLOURS



SHK® Aqua

Triple Layer PPR-C Pipes & Fittings



Flowing Excellence in Every Pipe

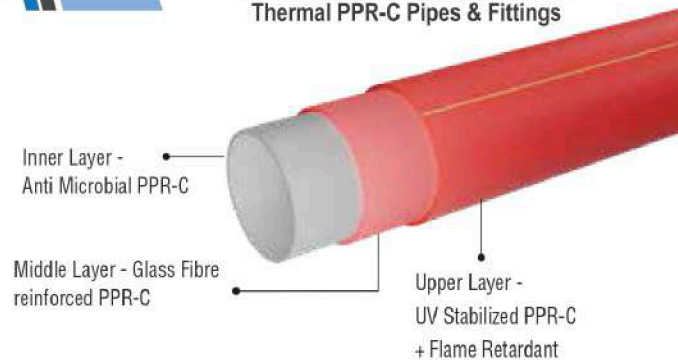
SHK Aqua features triple-layer PPR-C technology designed to ensure safe, hygienic, and long-lasting water supply. The UV-stabilized outer layer protects against environmental exposure, while the anti-microbial inner layer maintains water purity for residential, commercial and industrial systems.

Engineered for Fire & Chemical Applications

SHK Thermo pipes are engineered with glass fibre reinforced PPR-C technology to handle high temperatures and chemical based applications. These pipes provide excellent strength, reduced thermal expansion, and dependable performance.

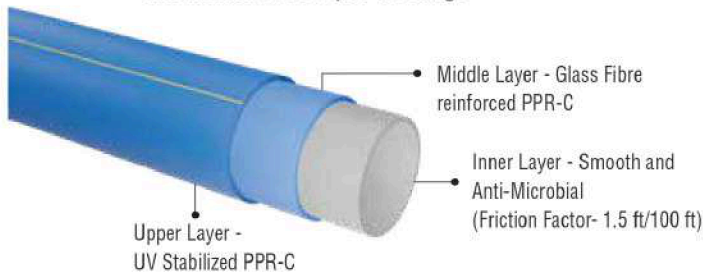
SHK® Thermo

Thermal PPR-C Pipes & Fittings



SHK® Pneumato

Pneumatic PPR-C Pipes & Fittings



Sustainable Pipes for Maximum Airflow & Minimum Energy Loss.

SHK Pneumato pipes are specially designed for compressed air distribution systems. With smooth inner surfaces and glass fibre reinforced structure, they ensure efficient airflow, reduced friction loss, and durable performance in industrial pneumatic applications.

APPLICATION

- Chilled Water Supply
- Cooling Tower Supply
- Process Water Supply
- Hot Water Application
- RO, DM & Drinking Water Supply
- Chemical Applications
- ETP, STP & WTP Supply
- Compressed Air Supply
- Nitrogen Supply
- Oxygen Supply
- Vacuum Lines
- Plumbing Application

PROPERTIES & ADVANTAGE

- 50 Years of Service Life
- Leak Proof & Frost Proof
- Hygienic & Non-Toxic, Anti-Microbial Inner Most Layer
- Socket Fusion Jointing Technique with Homogeneous Joints
- Excellent Chemical Resistance, Strong & UV Stabilized
- Frictional Factor of Just 1.25 ft / 100 ft
- No Rust, No Scaling & Long Lasting
- Light Weight & Easy to Handle
- Low Laying Time and Cost Saving Product
- Resistance to High Temperature Range From -8° to 95° C

TECHNO-COMMERCIAL COMPARISON

MS PIPES VS PPR-C PIPES

Property	MS Pipes	PPR Pipes
Service Life	3–5 Years	Up to 50 Years
Food Grade	Poor (corrosion issues)	Hygienic, CFTRI & WRAS approved
Leakage	High Risk (Welding)	Negligible (Socket Fusion)
Heat Loss	High	Very Low
Thermal Conductivity	Very High (45 W/mK)	Low (0.23 W/mk)
Insulation Requirement	Thick Insulation Needed	Miniml Insulation
Maintenance Cost	High	Very Low (15–20 yrs)
Corrosion Resistance	No	Excellent (No Corrosion)
Friction Loss	High (6 ft/100 ft)	Low (1.25 ft/100 ft)
Weight	Heavy	Light weight
Painting Cost	Required	None
Installation Time	Slow & Complex	Fast & Easy

CPVC PIPES VS PPR-C PIPES

Property	CPVC Pipes	PPR Pipes
Service Life	15–20 Years	Up to 50 Years
Food Grade	Non-hygienic (Joint solution contamination risk)	Hygienic, CFTRI & WRAS approved
Leakage	High (Adhesive-based joints)	Negligible (Socket fusion joints)
Maintenance Cost	High after 5-6 years	Very Low (15–20 yrs)
Young’s Modulus	~3275 MPa (Rigid & Brittle)	~850 MPa (Tough & Ductile)
Temperature Resistance	10°C to 80°C (Joints up to 60°C)	-10°C to 95°C

PPR-C FITTINGS (SIZE : 20 MM TO 500 MM)



Elbow 90 degree



Tee



End Cap



Reducer



Union



Saddle



F T Socket



F T Union



M T Elbow



M T Tee



Gate Valve



Ball Valve



Cross Tee



Tank Connector



Socket



Elbow 45 degree



Flange Core/Stubend



Reducer Tee



PPR-Flange



Long Bend



M T Socket



M T Union



F T Elbow

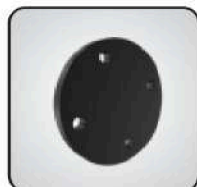


F T Tee

OTHER PRODUCTS:



SIZE RANGE: 20MM TO 500MM



SIZE RANGE: 32MM TO 400MM



HDPE SPIGOT FITTINGS

SIZE RANGE: 63MM TO 400MM



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