



Market Leaders in PPR Pipes & Fittings for last 25 Years



SFMC[®]
PIPES & FITTINGS

Savoir Faire Manufacturing Company Pvt. Ltd.

Engineered For **Strength,**
Built For **Generations**

1st time
in India
with **3 Layer**
technology

**Residential, Commercial,
Industrial Plumbing Solution**



Savoir Faire Manufacturing Company Pvt. Ltd.

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Polypropylene Random

SFMC Pipes & Fittings are manufactured using “**Polypropylene Random Copolymer (PPR)**”, a high-quality material renowned for its durability, reliability, and excellent performance across a wide range of applications.

Owing to its superior “**physico-chemical properties**”, SFMC PPR systems provide a **dependable solution for potable water, compressed air, chemical applications, RO systems, rainwater harvesting**”, and many other plumbing and fluid-handling requirements.

The combination of high-quality PPR material and “**fusion welding technology**” creates a homogeneous, leak-proof joint, ensuring a secure and long-lasting plumbing system—even under demanding operating conditions.

To complement the complete piping system, SFMC offers an extensive range of “**specially designed accessories and fittings**”, developed to address diverse installation requirements and provide a comprehensive plumbing solution.

SFMC PPR products are “**physically robust, hygienically safe, and non-carcinogenic**. They have been approved and evaluated by reputed institutions, including CBRI, Roorkee (India)”, along with other recognized international institutes, supporting their quality and suitability for modern piping applications.

FIELDS OF APPLICATION

Potable Water Pipe Network for Cold & Hot Water Installation, i.e., Residential Buildings, Hospitals, Hotels, Office & Schools Buildings, Solar Plants etc.

Pipe Networks for Rainwater Utilization Systems.

Heating Pipes for Residential Buildings.

Pipe Networks for Swimming Pool Facilities.

Pipe networks for industry i.e., Transportation of Aggressive Fluids (Acid etc.)

Pipe Networks in Agriculture and Horticulture.

Pipe Network for Compressed Air Plants.

Transport of Liquid Food due to its Hygienic Behavior.

Properties

- ➔ Extremely long life, 50+ years of service life.
- ➔ Taste and odour neutral.
- ➔ Unique and un-rivaled jointing technique with security for lifetime.
- ➔ Good Chemical Resistance. Physically neutral.
- ➔ Heat preservative and energy saving (No need for insulation for concealed piping networks)
- ➔ Resistance to High Temperature (95°C)
- ➔ Convenient & Reliable Installation.
- ➔ No Reaction with Salts & Acids.
- ➔ No Calcification.
- ➔ Leak Proof & Frost Proof.
- ➔ Non-Decaying & Non Deforming.
- ➔ Low Laying Time & Cost.
- ➔ Smooth Inner Surface.
- ➔ Sound Insulation.
- ➔ Recyclable- Prevents Environmental Hazards.

German
Technology



Copolymer (PPR) Pipes and Fittings

3 Layer PPR Pipes

SFMC adds to its range of products through its indigenous Research & Development

Advantages of UV Stabilizers

1. Enhanced UV Protection : UV stabilizers contain specialized chemical compounds that protect polymer materials from the harmful effects of ultraviolet (UV) radiation through various stabilization mechanisms.

2. Improved Light & Thermal Stability : Colors such as black and green naturally provide a degree of resistance to UV radiation. The addition of UV stabilizers further enhances the product's light and thermal stability, particularly when exposed to outdoor conditions.

3. Extended Product Life : UV stabilizers help minimize degradation caused by prolonged exposure to sunlight, thereby providing long-term durability and extending the service life of the products.

4. Retention of Polymer Properties : UV stabilizers help preserve the physical, mechanical, and functional properties of polymers, ensuring consistent product performance over an extended period.

Anti Microbial PPR Layer

The Anti-Microbial PPR Layer is specially designed to inhibit the growth and proliferation of bacteria, microbes, algae, and other microorganisms, helping to keep the inner surface of the pipe clean and protected. The anti-microbial additive used in the layer has very low migration characteristics, enabling it to remain effective for the entire service life of the product under specified operating conditions. The Anti-Microbial PPR Layer also offers excellent thermal stability, maintaining its performance at temperatures of up to 250°C.

Benefits :

1. Food-Grade & Hygienic: Made with high-quality, food-grade materials, suitable for potable and drinking water applications.

2. Protection Against Microbial Growth: Helps inhibit the growth of bacteria, microbes, algae, and other microorganisms, maintaining a cleaner pipe interior.

3. Enhanced Water Hygiene: Helps preserve water quality and hygiene even during prolonged stagnation by controlling microbial growth.

4. Bad Odour Resistance: Reduces the development of unpleasant odours caused by microbial activity, promoting a fresher plumbing environment.

5. Long-Lasting Performance: The low-migration antimicrobial additive provides durable protection and remains effective throughout the product's service life.

UV Stabilized
PPR Layer

Anti-Microbial
PPR Layer

Black Plain
PPR Layer

As per IS : 15801 & DIN 8077:1999-07 Wall Thickness
of Different Pipe Sizes

D	SDR 17.6/PN 6	SDR 11/PN 10	SDR 7.4/PN 16	SDR 6/PN 20
Outer diameter of pipe (mm)	S Thickness in mm	S Thickness in mm	S Thickness in mm	S Thickness in mm
15	----	----	2.2	2.7
20	----	1.9	2.8	3.4
25	----	2.3	3.5	4.2
32	----	2.9	4.4	5.4
40	----	3.7	5.5	6.7
50	----	4.6	6.9	8.3
63	----	5.8	8.6	10.5
75	----	6.8	10.3	12.5
90	----	8.2	12.3	15
110	----	10	15.8	18.3
160	9.1	14.6	21.9	26.6
180	10.2	16.4	24.6	29.0
200	11.4	18.2	27.4	33.2
225	12.8	20.5	30.8	37.4
250	14.2	22.7	34.2	41.7
280	15.9	25.4	38.3	46.7
315	17.9	28.6	43.4	52.5
355	20.1	32.2	49.0	59.2
400	22.7	36.3	----	----

Where *Quality*
Meets *Lifestyle*

PPR-FRP COMPOSITE PIPE

SFMC PPR-FRP – Advanced Compressed Air Piping Technology :

PPR-FRP (Polypropylene Random Fiberglass Reinforced Plastic Composite) has emerged as an advanced piping technology for compressed air distribution systems. Through continuous innovation and development, SFMC has established PPR-FRP piping as a modern solution for a wide range of industrial compressed air applications.

A well-designed compressed air piping system plays a critical role in overall industrial efficiency. The selection of the right piping material and system can have a significant impact on energy consumption, air distribution efficiency, operational reliability, maintenance requirements, and overall system performance. This is particularly important in industries such as Textiles, Process Industries, Engineering, Pharmaceuticals, Food Processing, Paper, and many others.

SFMC's PPR-FRP Pipes & Fittings are engineered to provide a reliable and efficient solution for industrial compressed air distribution. Their advanced composite construction combines the benefits of PPR with Glass Fibre Reinforcement, providing enhanced mechanical performance and dimensional stability for demanding industrial environments.

SFMC introduced PPR-FRP Pipes & Fittings with advanced Glass Fibre Reinforced Technology, developed to meet the evolving requirements of modern industries. Continuous product development, technological innovation, and a strong focus on customer requirements have enabled SFMC to develop comprehensive piping solutions for diverse industrial applications.

PPR-FRP Pneumatic Technology :

SFMC's PPR-FRP system represents a modern approach to industrial pneumatic piping, offering a purpose-designed solution for compressed air distribution networks. With a comprehensive range of pipes, fittings, and accessories, the system is designed to support efficient installation and reliable operation across various industrial environments.

The continued development of PPR-FRP Pneumatic Technology reflects SFMC's commitment to providing innovative piping solutions that address the changing requirements of industrial compressed air systems.

ADVANTAGES

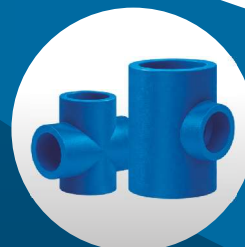
- Good Rigidity and Stability
- High Impact Resistance in Low Temp.
- High Temperature, High Pressure
- Link by Welding, Safe and Reliable
- High Pressure Resistance
- 30% Reduction in Linear Expansion



Blue PPR-FRP Pneumatic Pipe

Upper Layer - UV Stabilized
Middle Layer - Glass Fiber Reinforced Layer
Inner Layer - PPR Layer

**Polypropylene Random Fiberglass
Reinforced Plastic Composite Pipe**



INDUSTRIES USING THE PRODUCT SATISFACTORILY

- Acid Fillings Stations Laboratories
- Automotive Industry
- Nuclear Research Centers
- Chemical Industry
- Paper & Pulp Mills
- Construction (Plumbing)
- Pharmaceutical Industry
- Desalination Plants
- Pickling Lines
- Effluent Treatment / Disposal
- Plants Refineries
- Electroplating Plant

EXCELLENT PROPERTIES

- Extremely Long Life, 50 Years of Service Life
- Good Chemical Resistance
- Leak Proof & Frost Proof
- No Calcification
- Sound Insulation
- Resistance to High Temperature
- No Reaction with Salts & Acids
- Low Laying Time & Cost
- Non Decaying & Non Deforming
- Air Compressing Line Properties

FIELDS OF APPLICATIONS

● Airline Pneumatic / Compressed Air Piping

● Chiller Piping

● Cooling Tower Piping

● R.O. Plant Piping

● Chemical Piping

● Hot & Cold Water & Fluid Application

● Bleaching lines

● Air Conditioning Systems

● Liquid Food Transportation

● Textile Mills

● Food & Beverage Thermal Baths

● Galvanizing Plants

● Water Purification Plants

● Industrial Washing

Pipe Welding

Preparing the Welding Machine & Welding Procedure :

1. **Preparing the Welding Machine :** Fit the welding machine with the appropriate dies corresponding to the required pipe and fitting diameter. Connect the welding machine to a 230V power supply. Wait until the thermostat indicator light switches off, indicating that the welding machine has reached the required working temperature of 260°C.
2. **Cutting and Marking the Pipe :** Cut the pipe at a right angle to its axis to ensure a proper and uniform joint. To avoid errors while determining the required position and direction of the fittings, mark the pipe with a pencil as required. (Fig. 1)
3. **Heating the Pipe and Fitting :** Insert the end of the pipe and the fitting simultaneously into the corresponding welding dies without rotating them. Push them into the dies until they reach the marked welding depth. (Fig. 2). It is important to follow the specified heating time for the respective pipe and fitting size to ensure proper fusion.
4. **Joining the Pipe and Fitting :** After the specified heating time has elapsed, quickly remove the pipe and fitting from the welding dies. Immediately join the heated pipe and fitting without rotating them. Push the pipe into the fitting until the marked welding depth on the pipe is completely covered by the PPR fitting. (Fig. 3)
5. **Alignment of the Joint :** After heating, do not push the joining components together with excessive force. During the joining process, a rotation of maximum 10°–15° may be made, if necessary, to correct the coaxial alignment of the pipe and fitting.



Fig. 1

Cut required length with cutter



Fig. 2

Heat Pipe and fitting at same time



Fig. 3

Take out the two & Fuse them together

1st time
in **India**
with **3 Layer**
technology



Savoir Faire Manufacturing Company Pvt. Ltd.

Market Leaders in
PPR Pipes & Fittings
for last 25 Years

**MANUFACTURERS OF PPR, CPVC, UPVC, SWR, ASTM,
DWC, MDPE, HDPE PIPES & FITTINGS, WATER TANKS & SMC PANEL TANKS**



OUR VALUED CLIENTS

◆ **SUNPHARMA** ◆ **SHREE CEMENT** ◆ **TATA CHEMICALS** ◆ **BIOCOM** ◆ **SAINT GOBAIN**
◆ **JUPITER GROUP** ◆ **HMCL** ◆ **EIL** ◆ **MP BIRLA** ◆ **SUPRAJIT** ◆ **OSWAL CABLE** ◆ **WIPRO**
◆ **COOLING LABS** ◆ **PAGE INDUSTRIES LIMITED** ◆ **ULLTRA TECK CEMENT** ◆ **OMAXE**
◆ **MANKIND PHARMA** ◆ **ADITYA BIRLA GROUP** ◆ **AMBUJA CEMENT** ◆ **CENTRAL PARK** ◆ **DLF**

APPROVALS & RECOMMENDATIONS

MES ◆ **CPWD** ◆ **MHADA** ◆ **CBRI** ◆ **RAILWAYS** ◆ **CIDCO** ◆ **UTTER PRADESH AVAS VIKAS**
UPRNN ◆ **MPPWD** ◆ **MP HOUSING** ◆ **DDA** ◆ **PHE** ◆ **BCD BIHAR** ◆ **POLICE HOUSING**

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Kolkata, Hyderabad, Guwahati,
Ernakulam, Trivandrum.

WORKS

Haridwar (Uttarakhand)
Dehradun (Uttarakhand)
Sonipat (Haryana)



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