

SIMBA PP-R HOT & COLD

Water pipes & fittings



Excellent Features:

- 50 years of service life.
- High pressure and temperature tolerances.
- High resistance to acids and chlorides.
- Noise free at high flow rates.
- Extensive savings in time and labour
- Competitive prices.
- Extremely low thermal conductivity
- Size range from 20mm - 200mm
- PN10, PN16, PN20 and PN25 production conforming to DIN 8077 - 8078

Fields of application:

SIMBA PP-R HOT & COLD water pipes are designed for the following applications:

- Hot and cold water supply in residential, industrial and public projects.
- Solar water applications.
- Compressed air systems.
- Drinking water and food liquids.
- Watering systems for greenhouse and garden.
- Traditional heating systems.

Excellent benefits Galvanised Iron (GI) Pipes cannot achieve

Features	Benefits	PP-R HOT & COLD PIPE	GI PIPE
1 No rusting	Keeps pure water pure, free from contamination and toxicity.	✓	✗
2 No corrosion	Most suitable for carrying drinking water.	✓	✗
3 Smooth internal surface	No scaling or clogging throughout the life of the pipeline. Gives high flow rates and reduced head loss as well.	✓	✗
4 No maintenance	Maintenance free for more than 50 years.	✓	✗
5 Low thermal conductivity	Heat loss due to condensation or dispersion is reduced.	✓	✗
6 High impact strength	Makes it suitable even for low temperature applications.	✓	✗
7 Low noise system	The sound dampening property of the PP-R material makes it desirable in plumbing, flushing & pressurised flow application.	✓	✗
8 Light weight	Makes it easy for installation.	✓	✗
9 Fusion welding	Extensive saving in time and labour giving homogenous, integral and long lasting water tight joints.	✓	✗
10 Cost effective	More cost effective than any other plumbing system.	✓	✗

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PP-R Pipes Dimensions and Range

SIZE[OD] (mm)	Wall Thickness			
	PN 16 (mm)	PN 20 (mm)	PN 25 (mm)	
20	2.80	3.40	4.10	
25	3.50	4.20	5.10	
32	4.40	5.40	6.50	
40	5.50	6.70	8.10	
50	6.90	8.30	10.10	
63	8.60	10.50	12.70	
75	10.30	12.50	15.10	
90	12.30	15.00	18.10	
110	15.10	18.30	22.10	



PP-R pipes



Socket



Reducing Socket



Male Adaptor



Female Adaptor



Bend



End Cap



Blind End



90° Elbow



45° Elbow



Female Elbow



Male Elbow



Reducing Tee



Cross Tee



Union



90° Tee



Female Tee



Male Union



Throttle Valve



Shower valve



Chrome Coated Valve



Spherical Valve



Cross Over



Clamp with cap



Omega



Peeling tool



Welding Machine



Welding Set



Pipe Scissors



Welding tool

Jointing Procedure



① Cutting



② Cleaning



③ Heating



④ Insertion

Cutting:

Cut the pipe square to the required length by pipe cutter (Shear). Deburr the cut end if necessary.

Cleaning:

Prior to welding, the pipe and fitting should be dried and properly cleaned.

Marking:

Mark the required welding depth of insertion on the pipe. Ensure that the indicator light on the welding tool is hot enough i.e. 260°C for welding.

Heating:

Heat the pipe and fitting on the welding device as per the recommended heating time given in the chart below. Do not turn or twist the pipe or fitting while pushing.

Removal:

After specified heating time, remove the pipe and fittings again without rotating.

Insertion:

Insert the pipe end into the fitting to full depth and hold for prescribed seconds. Now your joint is ready.

Concealed Work:

While doing concealed bathroom work, it is advised to make the required network on floor by proper measurement of different pipe lengths. To avoid misalignment, guiding mark on pipe and fitting should be referred.

Polyfusion welding times according to DVS 2207 Norms

Pipe size (mm)	Heating Time (min seconds)	Working time (max seconds)	Cooling time (min minutes)	Depth of welding (mm)
20	5	4	2	14
25	7	4	2	15
32	8	6	4	16
40	12	6	4	18
50	18	6	4	20
63	24	6	6	24