PPR Pipes Features

PPR Pipes & fittings are developed in Germany in 1995. All the products are tested and passed all the Quality tests as per DIN 8077:1999-07, BS 6920. The products are highly appreciated and used all over Europe. German Federal Health Department recommends to use only PPR Pipes & Fittings for drinking water intended for human consumption. Nepal Hilltop installed fully computerized PPR Pipe Production Line and fittings production machine, insured wall thickness and rigidness. Nepatop Premium PPR Pipes and fittings are made by German technology using 100% food grade PPR granules imported from Europe & Asia. It's unique. Special heat resistance is one of feature of the materials Physo-Chemical features of Polypropylene Random Co Polymer and Fusion welding ensures perfect seal in every condition.

Nepatop Premium PPR pipe and fittings are made as per DIN 8077:1999-07, BS 6920 and have special features:

- Extremely long life of over 50 years
- Unique & un-rivaled joining technique for life time security. Leak Proof & Frost Proof
- Light-weight, convinient and reliable installation. The compression resistance is higher than 5 MPA (50kgs/cm)
- Saves Time & Money
- Resistance upto 95° centigrade
- No rusting, non-decaying, non-deforming
- No reaction with salts and acid, no calcification
- Good chemical resistance
- Good impact strength
- Physiologically harmless
- Bacteriologically neutral, non toxic
- Heat preserving and energy saving, need no extra insulation
- Smooth inner surface, ensure quick flow
- Taste & Odour neutral
- Environment friendly, recyclable

Scope of Application

- Hot & cold water purpose for Residential Building, Hospitals, Hotels etc.
- Compressed air-plants, air conditioners & Chilling Plants.
- Swimming pool, hot water in solar plants, spring water etc.
- Agriculture & horticulture.
- Industrial pipe networks to carry aggressive fluids, chemicals and acids
- Transporting liquidfoods
- Rain water utilization systems

Special Characteristics:

- Unique 3 Layer Design
- Extremely long life over 50 years
- Anti Microbacterial
- 100% Food Grade
- Corrosion Resistant
- Hot & Cold water application

Comparative Charts of Different Pipes

Property	Nepatop PPR Pipes	G.I. Pipes	CPVC	Pex-alu pex
Service life	50 yrs	5-10 yrs	50 yrs	50 yrs
Anti Micorbacterial	Yes	No	No	No
Hygenic	Very Good	Worst	Worst	Good
Furring	No	Yes	No	No
Corrision Resistant	Good	Bad	Good	Good
Installation	Easy	Hard	Easy	Easy
Reliability	Good	Common	Common	Common
Price	Good	High	High	High
Transportation cost	Low	High	Low	Low
Environment Friendly	Yes	No	No	Yes

Hot Melting Connection Method

Nepatop Premium PPR Pipes and Fittings should be used by hotmelting. Avoid threading in Pipe and Fittings. Connection with G.I. Pipes and C.P. fittings. Fittings in Bathroom can be made with Threaded male & female brass fittings & adapters. Use seated elbow to C.P. Fittings connection. Use Teflone Tape only.

- Fit the welding machine with the Dies of required sizes. Fix the clamp on a working table. Connect to the power supply of 230 Volts. Wait till the welding machine heat upto working temperature 230°. The indicater turns off.
- Cut the pipe at 90° to axis to avoid errors in defining the distance of the fittings, use a pencil for marking. The cut should be smooth, no burr or raw edge.
- Push the end of the pipes and fittings simultaneously without turning them to the marked welding depth into the tools. It is important to observe the heating times of assembly parts.
- After stipulated heating, remove Pipe & fitting quickly from the welding dies and insert the pipes into fittings without turning. Leave for a while.



Diameter	Depth For hot melting	Time for heating	Time of Insertion	Time of Cooling
20 mm	14 mm	5 seconds	4 seconds	3 minutes
25 mm	15 mm	7 seconds	4 seconds	3 minutes
32 mm	16.5 mm	8 seconds	4 seconds	4 minutes
40 mm	18 mm	12 seconds	6 seconds	4 minutes
50 mm	20 mm	18 seconds	6 seconds	4 minutes
63 mm	24 mm	24 seconds	6 seconds	6 minutes
75 mm	-	-	-	-
90 mm	-	-	-	-
110 mm	-	-	-	-

Available Sizes

PPR Pipes (Cold Water only)

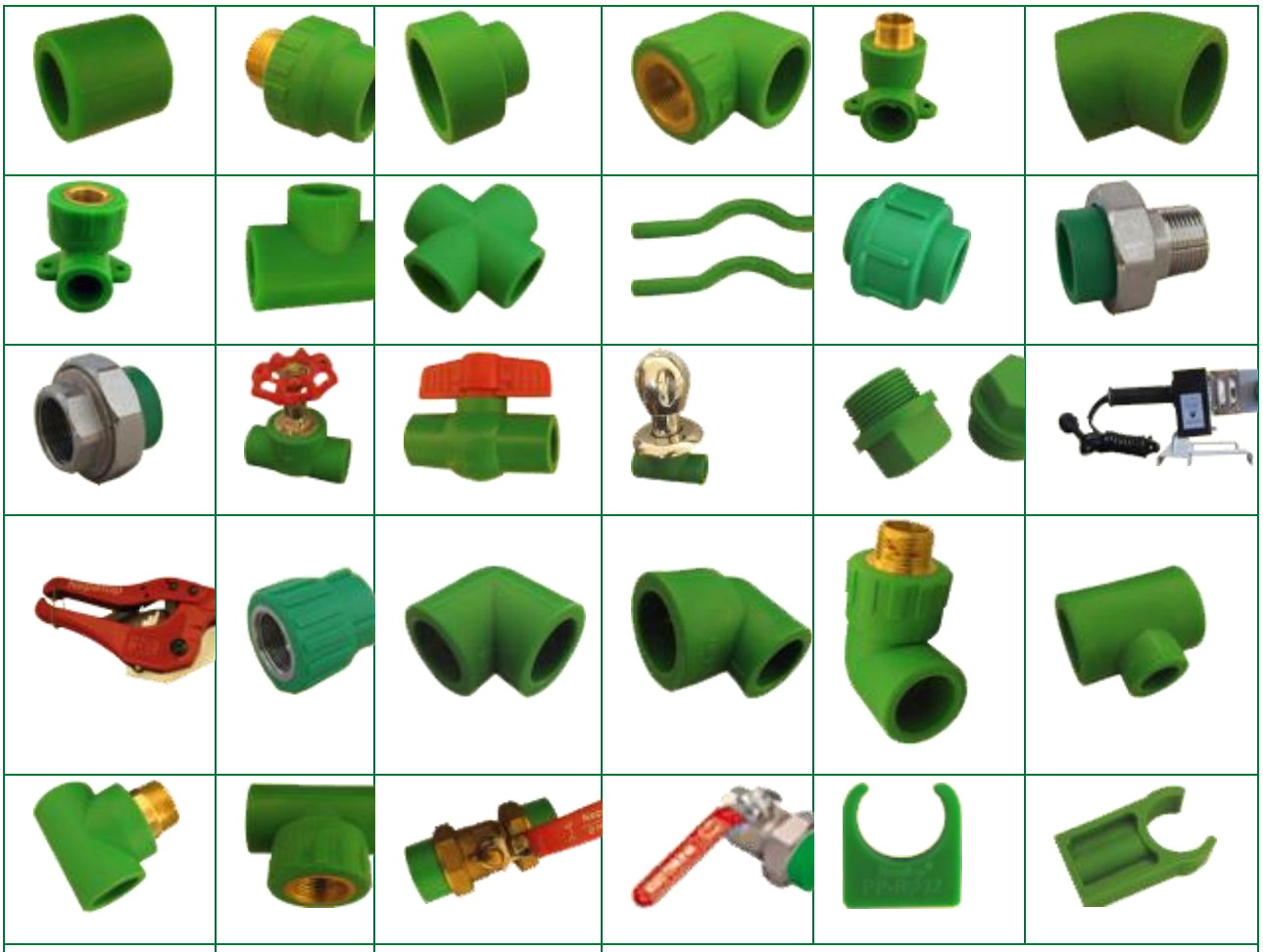
Outer Diameter	Mpa	Thickness (mm)	Item No
20	PN 1.6	2.3	811620
25	PN 1.6	2.8	811625
32	PN 1.6	3.6	811632
40	PN 1.6	4.5	811640
50	PN 1.6	5.6	811650
63	PN 1.6	7.1	811663
75	-	-	-
90	-	-	-
110	-	-	-

PPR Pipes (Hot & Cold Water)

Outer Diameter	Mpa	Thickness (mm)	Item No
20	PN 2.0	2.8	812020
25	PN 2.0	3.5	812025
32	PN 2.0	4.4	812032
40	PN 2.0	5.5	812040
50	PN 2.0	6.9	812050
63	PN 2.0	8.6	812063
75	-	-	-
90	-	-	-
110	-	-	-

Outer Diameter	Mpa	Thickness (mm)	Item No
20	PN 2.5	3.4	812520
25	PN 2.5	4.2	812525
32	PN 2.5	5.4	812532
40	PN 2.5	6.7	812540
50	PN 2.5	8.3	812550
63	PN 2.5	10.5	812563
75	-	-	-
90	-	-	-
110	-	-	-

Available Fittings



Caution

The product should be handled carefully during transportation and should not be thrown. The product should be stored indoors. Keep away from heat sources. The melting equipment should be properly grounded. The pipes and fittings should not contain water during hot welding. The melting dies and welding machine should be cleaned periodically with water and 50% alcohol.