
Baraman
Trading Company

introduction

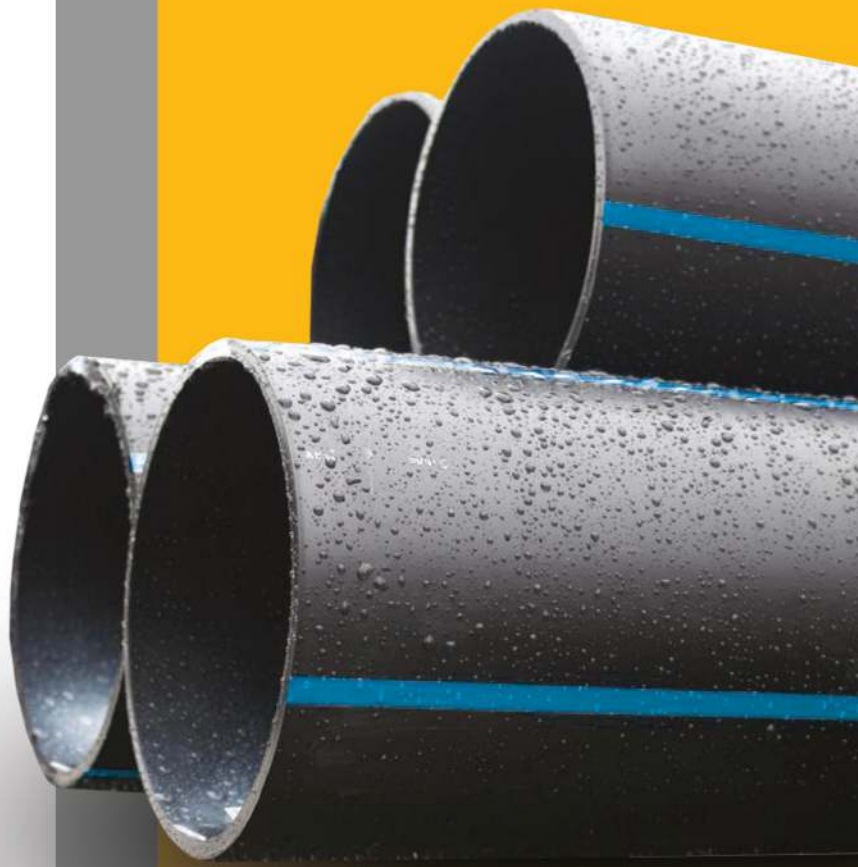
Baraman Company in 2007 with obtaining a license and operating permit from the Organization of Industries and Mines, as well as obtaining the necessary certificates (ISIRI 14427/2 and ISIRI 14427/3) in the field of production of various pipes and fittings for water supply from the Industrial Research and Standardization Institute of Iran, and by employing advanced European equipment and machinery, it has started the production of various sizes of polyethylene water supply pipes ranging from 16mm to 630mm. The packaging of the company's products is done in accordance with the Iranian National Standard (ISIRI 14427/2), with sizes ranging from 110mm to 16mm in coiled form (100 to 400 meters) and sizes ranging from 630mm to 110mm in branched form, with the length as per customer's order.

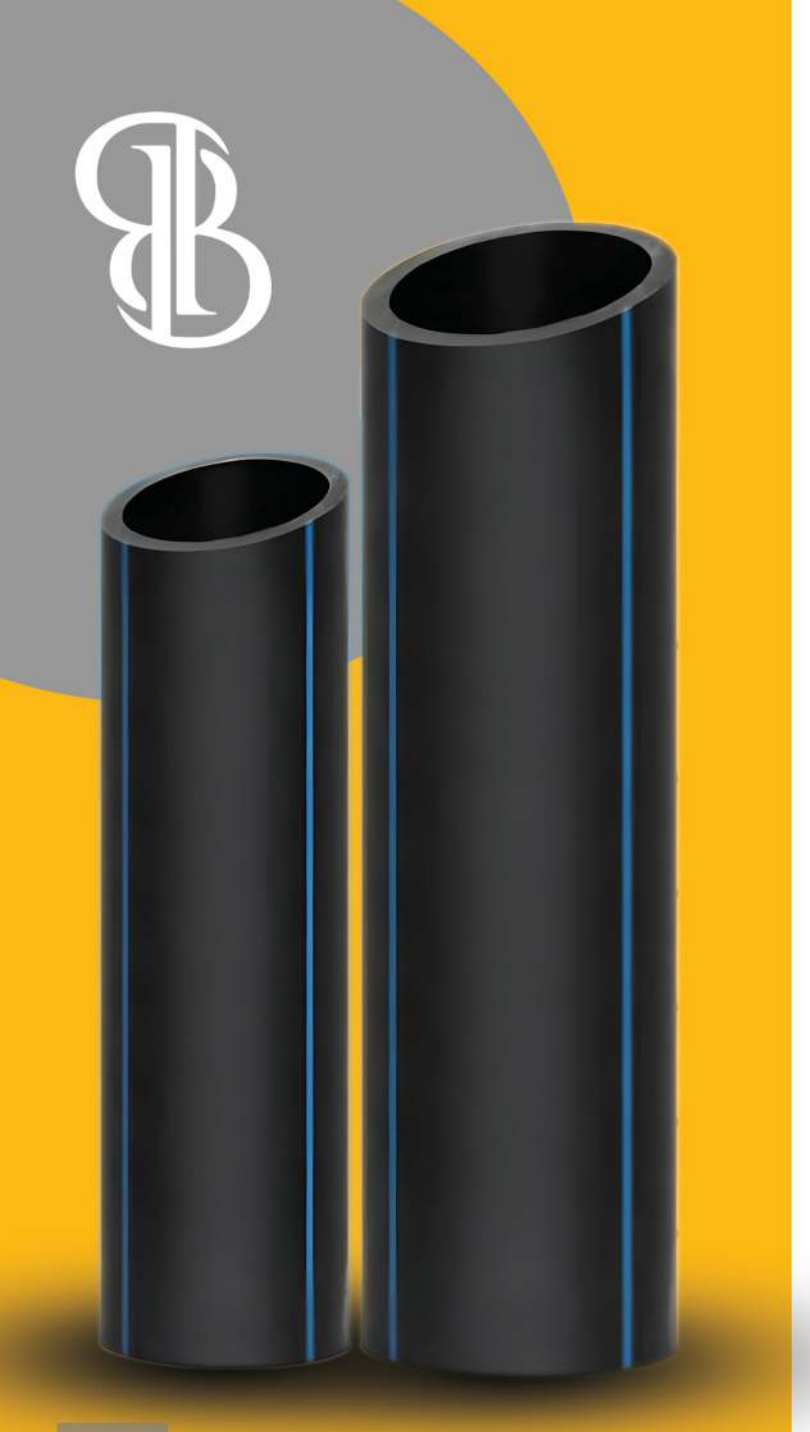
Water pipelines

In 2007, Baraman Company obtained a license and operating permit from the Organization of Industries and Mines, and also acquired the necessary certificate (ISIRI 14427/2 and ISIRI 14427/3) for the production of various types of pipes and fittings for water supply from the Industrial Research and Standardization Institute of Iran. Utilizing advanced European equipment and machinery (Krauss Maffei.Beier.Kuattro), the company has engaged in the production of various sizes of polyethylene water supply pipes ranging from 16mm to 630mm. The packaging of the company's products is in compliance with the Iranian National Standard (ISIRI 14427/2), with sizes from 16mm to 110mm in coiled form (from 100 to 4000 meters) and sizes from 110mm to 630mm in branched form, with the length according to the customer's order.

Advantages of water pipes:

1. Long service life - Fifty years of useful life (under standard operating conditions)
2. Very high resistance to earthquakes and landslides (due to high stiffness and flexibility)
3. Easy and inexpensive welding of pipes
4. High mechanical strength at welded joints
5. Easier installation and implementation of these types of pipes
6. Easy transportation, loading, and packaging (due to lower weight)
7. High resistance in acidic and alkaline environments and chemical substances
8. Resistance to abrasion and corrosion
9. Possibility of production and packaging in longer lengths
10. Lower specific weight and buoyancy in sea water
11. Hygienic and suitable for drinking water transport and distribution
12. Lower pressure drops for fluid inside the pipe (due to lower friction coefficient)
13. Flexibility even in freezing conditions
14. Non-breakable and crack-resistant
15. Lower cost for repair and replacement of polyethylene pipes compared to other pipes



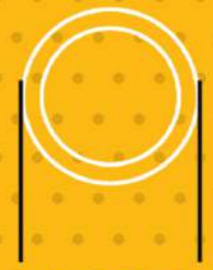


SDR	41	33	26	21	17	13.6	11	9	7.4	6
PE80 SF1.25 PN (bar)	3.2	4	5	6	8	10	12.5	16	20	25
PE100 SF1.25 PN (bar)	4	5	6	8	10	12.5	16	20	25	--

mm	S in mm	Mass in kg/m	S in mm	Mass in kg/m	S in mm	Mass in kg/m	S in mm	Mass in kg/m	S in mm	Mass in kg/m	S in mm	Mass in kg/m	S in mm	Mass in kg/m	S in mm	Mass in kg/m	S in mm	Mass in kg/m
16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	0.091	2.3	0.103	3	0.125
20	-	-	-	-	-	-	-	-	-	-	-	-	2	0.117	2.3	0.133	3	0.164	3.4	0.18
25	-	-	-	-	-	-	-	-	-	-	2	0.149	2.3	0.171	3	0.219	3.5	0.24	4.2	0.278
32	-	-	-	-	-	-	-	-	2	0.194	2.4	0.232	3	0.279	3.6	0.327	4.4	0.386	5.4	0.454
40	-	-	-	-	1.8	0.227	2	0.247	2.4	0.295	3	0.356	3.7	0.43	4.5	0.509	5.5	0.6	6.7	0.701
50	-	-	1.8	0.287	2	0.314	2.4	0.374	3	0.453	3.7	0.549	4.6	0.666	5.6	0.788	6.9	0.936	8.3	1.09
63	1.8	0.364	2	0.399	2.5	0.494	3	0.58	3.8	0.721	4.7	0.873	5.8	1.05	7.1	1.26	8.6	1.47	10.5	1.73
75	2	0.469	2.3	0.551	2.9	0.675	3.6	0.828	4.5	1.02	5.6	1.24	6.8	1.47	8.4	1.76	10.3	2.09	12.5	2.44
90	2.2	0.643	2.8	0.791	3.5	0.978	4.3	1.18	5.4	1.46	6.7	1.77	8.2	2.12	10.1	2.54	12.3	3	15	3.51
110	2.7	0.943	3.4	1.17	4.2	1.43	5.3	1.77	6.6	2.17	8.1	2.62	10	3.14	12.3	3.78	15.1	4.49	18.3	5.24
125	3.1	1.23	3.9	1.51	4.8	1.84	6	2.27	7.4	2.76	9.2	3.37	11.4	4.08	14	4.87	17.1	5.77	20.8	6.57
140	3.5	1.54	4.3	1.88	5.4	2.32	6.7	2.83	8.3	3.46	10.3	4.22	12.7	5.08	15.7	6.11	19.2	7.25	23.3	8.47
160	4	2	4.9	2.42	6.2	3.04	7.7	3.72	9.5	4.52	11.8	5.5	14.6	6.67	17.9	7.96	21.9	9.44	26.6	11
180	4.4	2.49	5.5	3.07	6.9	3.79	8.6	4.67	10.7	5.71	13.3	6.98	16.4	8.42	20.1	10.1	24.6	11.9	29.9	14
200	4.9	3.05	6.2	3.84	7.7	4.69	9.6	5.78	11.9	7.05	14.7	8.56	18.2	10.4	22.4	12.4	27.4	14.8	33.2	17.2
225	5.5	3.86	6.9	4.77	8.6	5.89	10.8	7.3	13.4	8.93	16.6	10.9	20.5	13.1	25.2	15.8	30.8	18.6	37.4	21.8
250	6.2	4.83	7.7	5.92	9.6	7.3	11.9	8.93	14.8	11	18.4	13.4	22.7	16.2	27.9	19.4	34.2	23	41.5	27
280	6.9	5.98	8.6	7.4	10.7	9.1	13.4	11.3	16.6	13.7	20.6	16.8	25.4	20.3	31.3	24.3	38.3	28.9	46.5	33.8
315	7.7	7.52	9.7	9.37	12.1	11.6	15	14.2	18.7	17.4	23.2	21.2	28.6	25.6	35.2	30.8	43.1	36.5	52.3	42.7
355	8.7	9.55	10.9	11.8	13.6	14.6	16.9	18	21.1	22.1	26.1	26.9	32.2	32.5	39.7	39.1	48.5	46.3	59	54.3
400	9.8	12.1	12.3	15.1	15.3	18.6	19.1	22.9	23.7	28	29.4	34.1	36.3	41.3	44.7	49.6	54.7	58.8	66.5	68.9
450	11	15.3	13.8	19	17.2	23.5	21.5	28.9	26.7	35.4	33.1	43.2	40.9	52.3	50.3	62.7	61.5	74.4	-	-
500	12.3	19	15.3	23.4	19.1	28.9	23.9	35.7	29.7	43.8	36.8	53.3	45.4	64.5	55.8	77.3	68.3	91.8	-	-
560	13.7	23.6	17.2	29.4	21.4	36.2	26.7	44.7	33.2	54.8	41.2	66.9	50.8	80.8	62.5	97	-	-	-	-
630	15.4	29.9	19.3	37.1	24.1	45.9	30	56.4	37.4	69.4	46.3	84.6	57.2	102	70.3	128.9	-	-	-	-

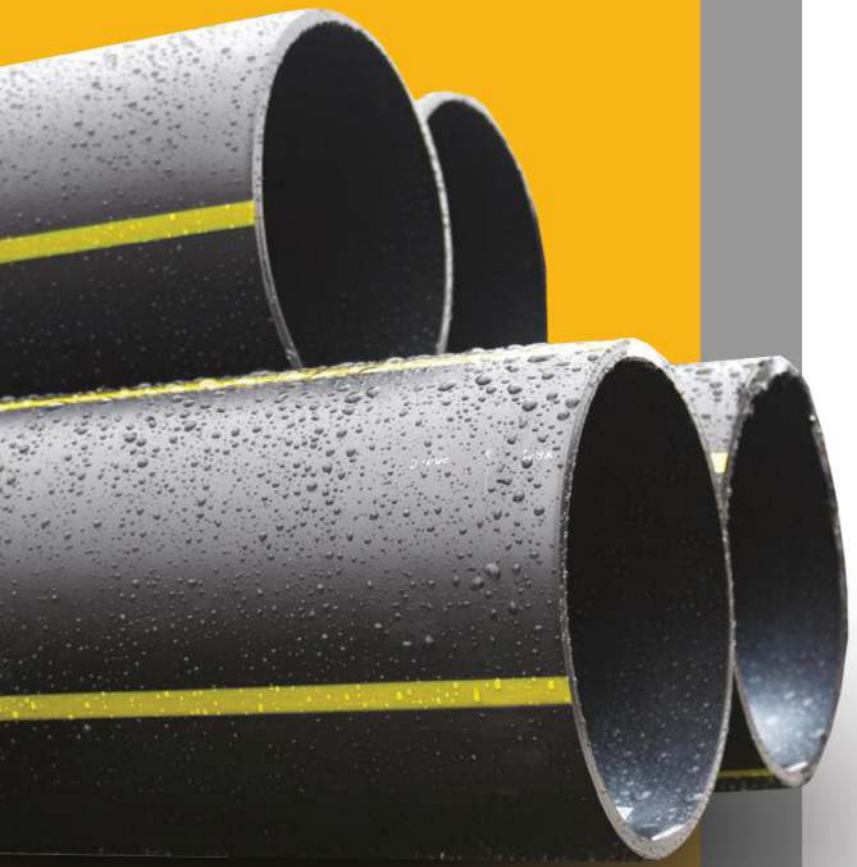
Gas pipelines

In 2008, Baraman Company successfully obtained an EP license from the Ministry of Petroleum and the National Iranian Gas Company. After going through the necessary stages (QC Plan Gas) and receiving the NIGC: IGS standard certificate, the company began producing various sizes of polyethylene gas pipes ranging from 25-225 mm. Utilizing the most advanced European machinery and equipped with a system for thickness and weight measurement, the company has embarked on producing high-quality gas pipes in accordance with global standards (EN 1555). The products manufactured by this company are packaged according to the standards of the National Iranian Gas Company, with sizes ranging from 90-25 mm provided in coiled form (with lengths of 50-100 meters) and sizes from 225-110 mm offered in branches and bundles (12 meters).



25-225 mm
Diameter

3-14 mm
Thickness



Advantages of gas pipes:

- Long lifespan of up to fifty years under standard operating conditions
- Excellent resistance to earthquakes and land shifting due to high resilience and flexibility
- Easy and cost-effective welding of the pipes
- High mechanical strength at joint connection areas
- Easier installation and implementation of this type of pipes
- Easy transportation, loading, and packaging due to their lighter weight
- Superior chemical, mechanical, and physical properties despite lower density and weight
- High resistance to acidic, alkaline, and chemical environments
- Resistance to abrasion and corrosion
- Possibility of production and packaging in longer lengths
- Low specific weight and buoyancy in seawater
- Hygienic and suitable for transporting and distributing drinking water
- Lower pressure drops for the fluid inside the pipe (lower friction coefficient)
- Flexibility even in sub-zero temperatures
- Non-brittle and crack-resistant
- Lower maintenance and replacement costs for polyethylene pipes compared to other types of pipes

SDR	41		33		26		21		17		13.6		11		9		7.4		6	
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180	4.4	2.49	5.5	3.07	6.9	3.79	8.6	4.67	10.7	5.71	13.3	6.98	16.4	8.42	20.1	10.1	24.6	11.9	29.9	14
200	4.9	3.05	6.2	3.84	7.7	4.69	9.6	5.78	11.9	7.05	14.7	8.56	18.2	10.4	22.4	12.4	27.4	14.8	33.2	17.2
225	5.5	3.86	6.9	4.77	8.6	5.89	10.8	7.3	13.4	8.93	16.6	10.9	20.5	13.1	25.2	15.8	30.8	18.6	37.4	21.8

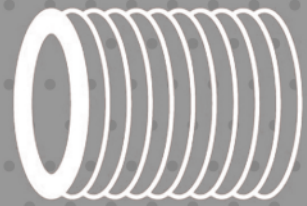
Corrugated pipes

Baraman brand offers a new product in the form of Baraman double-wall corrugated pipes, available in two variants: with a socket end or with a coupler end. These pipes, ranging from sizes 160 to 200 millimeters, conform to DIN standard (related to dimensional control and ring stiffness of the pipes) and EN 13476 (other tests related to product quality specifications). The production of these pipes is carried out using modern and up-to-date European machinery under Droos Bach Germany license, with unique and proprietary molds. Additionally, the capability of having protective tape on the coupler confirms this feature.

After conducting extensive research and relying on the knowledge of its managers and Research and Development unit, Baraman Company has been able to create exclusive and innovative changes in the corrugated pipe molds. As a result, the produced pipes are much more resistant, higher quality, and have a longer lifespan compared to other samples. These pipes can be used for sewage transportation, protective risers, and as drainage pipes in water supplies with heavy pressure, showcasing Baraman's commitment to delivering durable and high-quality products.

Top-selling products:

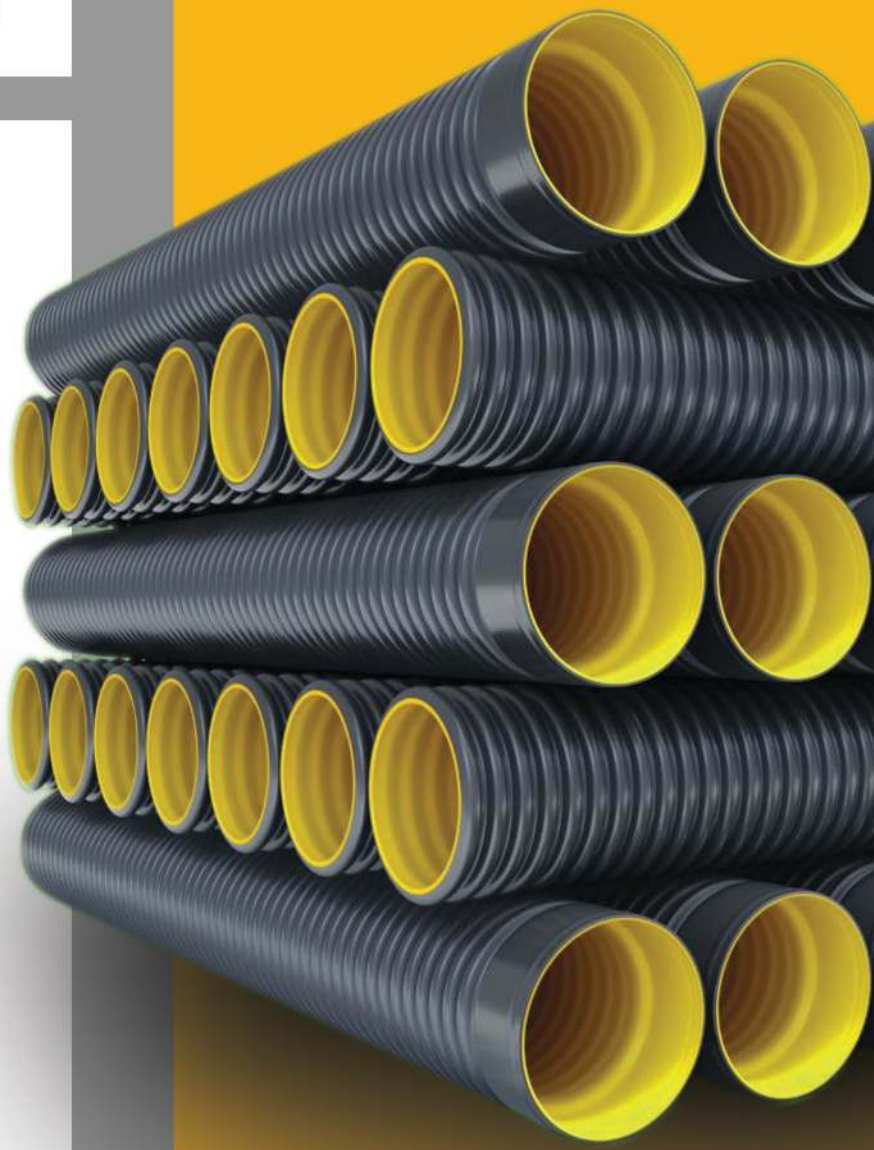
1. Ring stiffness SN4 (suitable for use in riser protection with low pressures)
2. Ring stiffness SN8 (suitable for use in high-pressure sewage transmission)



160-600mm
Diameter

Advantages of corrugated pipes:

- Resistant to erosion and corrosion
- High flexibility
- Lower weight compared to concrete protectors and single-wall pipes
- Easy transportation
- Can be cut with a cutter without the need for saws and other equipment
- Lower price compared to single-wall pipes
- Grooved outer surface and longitudinal ribs on the body that get filled with mud and dirt, making it easy to remove the pipes from the ground by hand, preventing theft.



Outer Diameter	Annular resistance (KN/M2)	Annular resistance (KN/M2)2	Branch (12M)	Branch (6M)	Branch (3M)
187	31.5	64	*	*	*
233	31.5	64	*	*	*
291	31.5	64	*	*	*
367	31.5	64	-	*	-
468	31.5	64	-	*	-
584	31.5	-	-	*	-
708	31.5	-	-	*	-
827	31.5	-	-	*	-
1003	31.5	-	-	*	-
1180	31.5	-	-	*	-

Tests for confirming the quality and standard compliance of corrugated pipes include:

- Impact test of corrugated pipes
- Inspection and adequacy of the appearance quality of corrugated pipes
- Marking and labeling of corrugated pipes
- Minimum thickness of the outer layer of double-wall corrugated pipes
- Nominal ring stiffness of double-wall corrugated pipes
- Thermal stability of corrugated pipes
- Flow rate of molten corrugated pipes
- Density of corrugated pipes
- Amount of additives
- Minimum thickness of the inner layer of double-wall corrugated pipes
- Raw material testing of corrugated pipes
- Flexibility of corrugated pipes

Other product

Drip irrigation pipelines

Baraman Company has two production lines for pressure irrigation pipes in size 16 millimeters with two working pressures of 4 and 6 bars, high speed, and an annual production capacity of 1750 tons, utilizing state-of-the-art machinery with world-class technology.

Advantages of drip irrigation pipes:

- Cost-effective and compact
- Quick installation and setup of irrigation system
- Resistant to ultraviolet radiation, acids, and chemicals used in agriculture
- Made from the best materials to ensure precise and long-term operation
- Best choice for seasonal crops
- Installable in soil depths and surfaces
- Resistant to tension during installation
- Lightweight
- Requires minimal storage space

PPR pipes:

PPR pipes are a new type of pipes that have the following performance features:

- PPR pipes save 20% energy compared to steel pipes and have low heat conductivity.
- PPR pipes are highly resistant to corrosion and are used for sanitary and non-toxic purposes.
- PPR pipes have a long lifespan under heat and pressure, and can be used for long periods at a temperature of 95 degrees Celsius.
- PPR pipes have less weight and higher resistance compared to metal pipes, with less friction against fluids and one-eighth the density of metal pipes.
- The raw materials of PPR pipes are non-toxic and sanitary.
- PPR pipes act as insulators and are very energy-efficient.
- PPR pipes are resistant to heat.

The main purpose and application of these pipes include:

- Used in hot and cold-water piping systems in buildings and central heating systems.
- Used in heating systems (underfloor heating, facade heating, and radiant heating) in buildings.
- They can be directly used to supply pure water.
- Used in piping systems of central air conditioning (centralized).
- They can be used for transporting or discharging chemical and industrial fluids.
- Polypropylene pipes and fittings are manufactured in diameters of 110, 125, and 160 millimeters with ring stiffness of S20, S16, S14 according to the latest world standards.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