



Know about us...

Bist Baspar spadana Industrial Group factories started their activities with the aim of job creation for young people and producing quality products. The experienced engineers and researchers of this factory, using the latest technologies in the world and using all their capacities, started working in the field of production of single-layer polymer pipes and fittings with Bist baspar brand.

After succeeding in creating a diverse portfolio of single-layer polymer products and receiving many standards approvals and certificates in this field, a new movement began in the production of five-layer pipes with Iran Pipe brand. And after that, it started to produce coupling brass and press fittings with VRP brand.

After a short time, it reached mass production, which, as in the past, by maintaining the superior quality of products, respecting consumer rights, having international standards, certificates and approvals, this industrial group became one of the top producers in the field of these products.

Bist Baspar spadana Industrial Group, in this way our mission, mass-produced polyethylene tanks used in homes, industrial and agricultural manufactory as storage of water and other liquids in various sizes and designs with Bista Baspar brand, and by obtaining standards and necessary certifications have become one of the top manufacturers in this field.

We are proud to have a continuous and brilliant presence as a top brand in many executive projects of the country as well as exports to different countries. We firmly believe that being first or second in an industry is far less important than being top. We are proud to be the best.

We follow the growing trend and all-round production of new products by using new technologies and making every effort and we believe that the superior quality of our products has no boundaries and we are committed to expanding as much as possible in terms of quantity and quality and providing new services.





Laboratory & Quality Control Unit

The laboratory & quality control unit is one of the main and most important units of Bist Baspar Spadana Industrial Group, which controls and monitors the quality of raw materials and all products for each industrial unit separately. Raw materials prepared are examined by this unit to produce in the factories of Bist Baspar Spadana Industrial Company.

Stage 1: Control the raw materials

All raw materials required by this company, including single-layer polypropylene materials, PEX, PERT, aluminum, brass ingots, glues, pigments at the time of entering the factory are controlled and their desired quality consistent with existing standards is tested, and if approved, the permission to enter the raw material warehouse is issued by the unit.



Stage 2: Control during manufacturing

One of the important tasks of the laboratory & quality control unit is quality control of products during manufacturing, which is randomly selected from all production lines and products (single-layer pipes and fittings, five-layer pipes, brass fittings, and polyethylene tanks) and is controlled and tested in the laboratory.



Stage 3: Final control of products

The manufactured products are tested and re-examined before packaging and are packaged after complete confirmation. The tests include measuring the dimensions of pipes and fittings, their weight, and short-term and long-term hydrostatic pressure tolerance at different temperatures, and also the impact test of single-layer and five-layer pipes and fittings, polyethylene tanks, etc. in intended coldness.





Bist Baspar Polymer Pipes and Technical Specifications

Bist Baspar single-layer polymer pipes are made of the best and most quality raw materials available using a masterbatch with polymer base as an energy consumption grade for the pipe.

Moreover, the pipes are produced consistent with the maximum thickness of the standard table. The items above increase the durability of Bist Baspar polymer pipes compared to pipes produced by other companies.

Bist Baspar polymer fittings

Some polymer fittings include brass beads, which also play an important role in the quality of bushing and nipple threaded fittings. Precise design of these brass parts is considerable to Bist Baspar company; unique design and using high-quality ingots with the desired alloy, on one side, and plating with resistant and shiny nickel metal (which makes brass beads harder and more resistant against corrosion and abrasion and also anti-friction), and on the other hand, not only has completely solved the problems by manufacturing this type of fittings that other companies still face, but also the metal threaded fittings produced by this company have quality beyond imagination.

How to join Bist Baspar pipes and fittings

Bist Baspar polymer pipes and fittings are joined by fusion welding according to DVS and DIN standards, and it is necessary to be considered the points of the table in the fusion process. After fastening the appropriate and standard mold on the plate of the fusion machine, connect it to the power supply and set the temperature of the machine to $10 \pm 260C^\circ$, and after heating the machine, which lasts for 20 to 30 minutes, you can start the fusion process.

Technical specifications of polymer pipes

outer diameter mm	outer diameter inch	tolerance mm	thickness mm	tolerance mm	weight per unit length kg
20	1/2	+0/3	3/4	+0/6	0/172
25	3/4	+0/3	4/2	+0/7	0/266
32	1	+0/3	5/4	+0/8	0/436
40	1 1/4	+0/4	6/7	+0/9	0/671
50	1 1/2	+0/5	8/3	+1/1	1/041
63	2	+0/6	10/5	+1/3	1/653
75	2 1/2	+0/7	12/5	+1/5	2/340
90	3	+0/9	15	+1/7	3/360
110	4	+1	18/3	+1/9	5/040



Before plating



After plating

fusion guideline table according to the standard

pipe diameter mm	depth of fusion mm	heating time s	welding time s	cooling time s
20	14	5	4	2
25	15	7	4	2
32	16/5	8	6	2
40	18	12	6	4
50	20	18	6	4
63	24	24	8	6
75	25	30	8	8
90	29	40	8	8
110	32/5	50	10	8



Note:

The mold and the fusion point have to be completely clean because the burnt particles on them will cause incomplete welding. If the ambient temperature is less than 5 °C, the heating time should be increased to 50% and the temperature of the device should never be set higher than the mentioned temperature since the temperature of more or less than 10 ± 260 C° causes molecular degradation and not fusing respectively.

Connection Steps

1. Cut the used pipes completely perpendicular to their longitudinal axis and clean the cutting area. Keep in mind that not cutting vertically causes a change in the depth of fusion.



2. According to the fusion guideline table, mark the depth of fusion on the pipe with a ruler or meter.



3. Making the pipe and fitting approach to the end of the fusion machine molds at the same time using the same pressure. Be careful not to enter the pipe more than the marked part inside the mold, as the inside diameter of the pipe will decrease and the pipe will become clogged.



4. After heating stated in the relevant table, take the pipe and the fitting out of the mold without turning and immediately, without twisting and turning, put them inside each other to the specified depth of fusion.





Note:

It is worth mentioning that the heating time, according to the guideline table, starts when the pipe and fitting have reached the end of the mold. About 2 to 3 hours after the last fusion, the project is ready for pressure testing. It would be best to test the welded pipe and fittings at a pressure of about 10 to 15 atmospheres.

Important test to ensure proper fusing

Perpendicular to the longitudinal axis, cut the weld of the pipe to the fitting, which fused according to the connection method above with scissors to ensure that the fusion process has been done correctly.

If the surface of the cut part is smooth and seamless and the fused point with the fitting is inseparable and without bubbles, and also the fitting opening is not tight, the fusion process is done without defects and after testing, you can deliver the project with certainty.

Otherwise, if the fusion process has been done imperfectly, even if the pressure test of the project is acceptable, the facilities and installation of that building will be at risk of leakage in the future.

Note that despite the fusion performance testing of the project, a pressure test is required to ensure the performance of the piping system.



Note that despite the fusion performance testing of the project, a pressure test is required to ensure the performance of the piping system.



Do's:

- Use Bist Baspar polymer pipes and fittings together
- Do all the items mentioned in the connection steps
- Perform pressure test after piping and draining water pipes to prevent freezing in cold weather
- Cover on the pipes after performing the pressure test
- Protect from direct sunlight
- Be very careful in transportation
- Use PTFE to install metal fittings
- Use suitable insulation for pipes in cold weather



Don'ts

- Do not use greasy and dirty pipes
- Do not use joint sealing for metal fittings, and conical nipples
- Do not expose the pipe to direct flame
- Do not hit the end of the pipe and drag them on the ground
- Do not use an iron plug
- Do not use pipes with cracks on the surface
- Do not use wrenches with rough jaws and teeth
- Do not hit the pipes and drop hard objects on the pipes, especially in cold weather



Why should we use Bist Baspar single-layer pipes and fittings?

1. Because polymeric materials do not oxidize, they do not rust and have great longevity (typically up to 50 years).
2. Because the inside of the 20 polymer pipes is very polished and as a result, it does not deposit and will not have a pressure drop.
3. Because Bist Baspar polymer pipes can tolerate high pressure and heat, they can be used in heating systems (radiators).
4. Because the polymer nature of Bist Baspar products does not combine with acids and bases, they are suitable for the transfer of chemicals.
5. Because Bist Baspar polymer products have a very low opacity (or the quality of light passing), so algae do not live in them, the taste and smell of water will not change, and are quite suitable for drinking water.



Bist Baspar five-layer butt-welded pipes

Bist Baspar five-layer butt-welded pipes are a combination of two-layer polymer, two-layer glue, and one-layer aluminum. It should be noted that when manufacturing the pipes, pex and polypropylene are used for the inner polymer layer and the outer polymer layer respectively.

This type of pipe, because of the use of aluminum in the middle layer, has a very low longitudinal expansion and a higher compressive and mechanical strength than single-layer pipes.

These pipes can be connected using single-layer fittings, and obviously to do this, the same method and connection steps described in the section of the single-layer pipe on pages 3-4 are used.

These pipes are an upgraded model for water supply systems with single-layer fittings.



Note: It is emphasized that the method of connecting the pipe to single-layer fittings is the same as the simple method for PP-R single-layer pipes and fittings.

Welding guideline table consistent with standards

pipe diameter mm	depth of fusion mm	heating time s	welding time s	cooling time s
20	14	5	4	2
25	15	7	4	2
32	16/5	8	6	2

Specifications of five-layer butt-welded polymer pipes

outer diameter mm	outer diameter inch	tolerance mm	thickness mm	tolerance mm	weight per unit length kg
20	1/2	+0/3	3/4	+0/6	0/193
25	3/4	+0/3	4/2	+0/7	0/320
32	1	+0/3	5/4	+0/8	0/433



The proper method of fusing Bist Baspar five-layer butt-welded pipes



Advantages of Bist Baspar five-layer butt-welded pipes

- Increasing the compressive and temperature strength of these pipes compared to PP-R pipes and three-layer polypropylene pipes reinforced with glass fiber
- Very low longitudinal expansion coefficient compared to PP-R single-layer pipes
- Quick and easy installation compared to polypropylene foil pipes because there is no need to scrape the outer layer.

Application of Bist Baspar five-layer butt-welded pipes

- Sanitary hot and cold-water piping of buildings
- Heating systems piping
- Water transfer in risers
- Compressed air transfer systems
- Power supply systems for cooling towers and fan coil units



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elbow 45°

code	size	pack
20350	20	320
20352	25	190
20354	32	100
20356	40	60
20358	50	30
20360	63	14



Pipe

code	size	pack
20110	20	140
20112	25	100
20114	32	60
20116	40	40
20118	50	24
20120	63	16
20122	75	16
20124	90	12
20126	110	8



tee

code	size	pack
20410	20	170
20412	25	110
20414	32	55
20416	40	35
20418	50	24
20420	63	11
20422	75	7
20424	90	3
20426	110	2



5-layer butt-welded pipe

code	size	pack
20130	20	120
20132	25	80
20134	32	40



Elbow 90°

code	size	pack
20310	20	260
20312	25	150
20314	32	80
20316	40	45
20318	50	25
20320	63	14
20322	75	8
20324	90	3
20326	110	2



reducing tee

code	size	pack
20441	25×20×20	110
20440	25×20×25	110
20442	25×25×20	110
20443	32×20×32	55
20444	32×25×32	55
20445	40×20×40	35
20446	40×25×40	35
20447	40×32×40	35
20448	50×20×50	24
20449	50×25×50	24
20450	50×32×50	24
20451	50×40×50	24
20452	63×20×63	10
20453	63×25×63	10
20454	63×32×63	10
20455	63×40×63	10
20456	63×50×63	10



equal elbow

code	size	pack
20340	20×25	150
20342	32×20	80
20344	32×25	80



reducing elbow

code	size	pack
20370	20	220
20372	25	160





corner tee

code	size	pack
20430	20	170
20432	25	110



metal bushing-in fitting

code	size	pack
20510	20×1/2	230
20512	25×1/2	180
20514	25×3/4	140
20516	32×1/2	90
20518	32×3/4	90
20520	32×1	90
20522	40×1×1/4	52
20524	50×1×1/2	36
20525	63×2	24
20526	75×2×1/2	15
20527	90×3	7
20528	110×4	-



bushing fittings

code	size	pack
20210	20	350
20212	25	240
20214	32	140
20216	40	75
20218	50	45
20220	63	24
20222	75	20
20224	90	10
20226	110	5



bushing-out nipple

code	size	pack
20610	20×1/2	180
20612	25×1/2	160
20614	25×3/4	120
20616	32×1/2	80
20618	32×3/4	80
20620	32×1	75
20622	40×1×1/4	40
20624	50×1×1/2	35
20625	63×2	20
20626	75×2×1/2	11



reducing fitting

code	size	pack
20240	25×20	420
20241	32×20	300
20242	32×25	260
20243	40×20	190
20244	40×25	160
20245	40×32	140
20246	50×20	110
20247	50×25	110
20248	50×32	90
20249	50×40	70
20250	63×20	50
20251	63×25	50
20252	63×32	50
20253	63×40	50
20254	63×50	40
20255	75×40	30
20256	75×50	30
20257	75×63	30
20258	90×50	22
20259	90×63	22
20260	90×75	20
20261	110×63	12
20262	110×75	12
20263	110×90	12



metal bushing-in elbow

code	size	pack
20530	20×1/2	140
20532	25×1/2	125
20534	25×3/4	110
20536	32×1/2	60
20538	32×3/4	60
20540	32×1	60
20542	40×1×1/4	32



metal elbow with clip

code	size	pack
20550	20×1/2	100
20552	25×1/2	100
20554	25×3/4	80





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double elbow

code	size	pack
20560	20×1/2	35
20562	25×1/2	32



nipple tee

code	size	pack
20670	20×1/2	100
20672	25×1/2	80
20674	25×3/4	80



metal nipple elbow

code	size	pack
20630	20×1/2	120
20632	25×1/2	100
20634	25×3/4	90
20636	32×1	50



nipple tee with clip

code	size	pack
20690	20×1/2	80
20692	25×1/2	60
20694	25×3/4	60



nipple elbow with clip

code	size	pack
20650	20×1/2	100
20651	20×3/4	90
20652	25×1/2	90
20654	25×3/4	70



welded threaded pipe union

code	size	pack
20730	20	85
20732	25	75
20734	32	50



metal tee

code	size	pack
20570	20×1/2	130
20571	20×3/4	100
20572	25×1/2	80
20574	25×3/4	80
20576	32×1/2	40
20578	32×3/4	40
20580	32×1	40
20582	40×1×1/4	25



metal threaded pipe union

code	size	pack
20710	20	200
20712	25	150
20714	32	100
20716	40	55
20718	50	30
20720	63	16



tee with clip

code	size	pack
20590	20×1/2	100
20592	25×1/2	70
20594	25×3/4	70



coupling threaded pipe union

code	size	pack
20740	20	85
20742	25	75





dual-mode ball valve

code	size	pack
20830	20	45
20832	25	45
20834	32	28
20836	40	18
20838	50	12
20840	63	8



plastic long plug

code	size	pack
21610	20	160
21612	25	110
21614	32	70



(Gate) valve

code	size	pack
20810	20	60
20812	25	45
20814	32	30
20816	40	20



single open pipe clip

code	size	pack
21310	20	1000
21312	25	750
21314	32	450
21316	40	280



double pipe clip

code	size	pack
21340	20	350
21342	25	300



bend pipe fitting

code	size	pack
21210	20	60
21212	25	40
21214	32	25
21216	40	15



stencil

code	size	pack
21810	20cm	300
21812	50cm	80



short bridge fitting with clip

code	size	pack
21260	20	120
21262	25	85



plug

code	size	pack
21540	20	650
21542	25	480
21544	32	250
21546	40	170
21548	50	90
21550	63	50
21552	75	34
21554	90	22



threaded plug

code	size	pack
21510	20	1000
21512	25	600
21514	32	430





Iran pipe
VRP

Iran Pipe five-layer pipes
www.bistbasparco.com

Iran pipe VRP

Iran Pipe five-layer pipes





Iran Pipe five-layer pipes

Five-layer pipes consist of two layers of polymer, two layers of glue, and one layer of aluminum so that the inner and outer layers are glued to the middle made-of-aluminum layer.

1. Polymer layers:

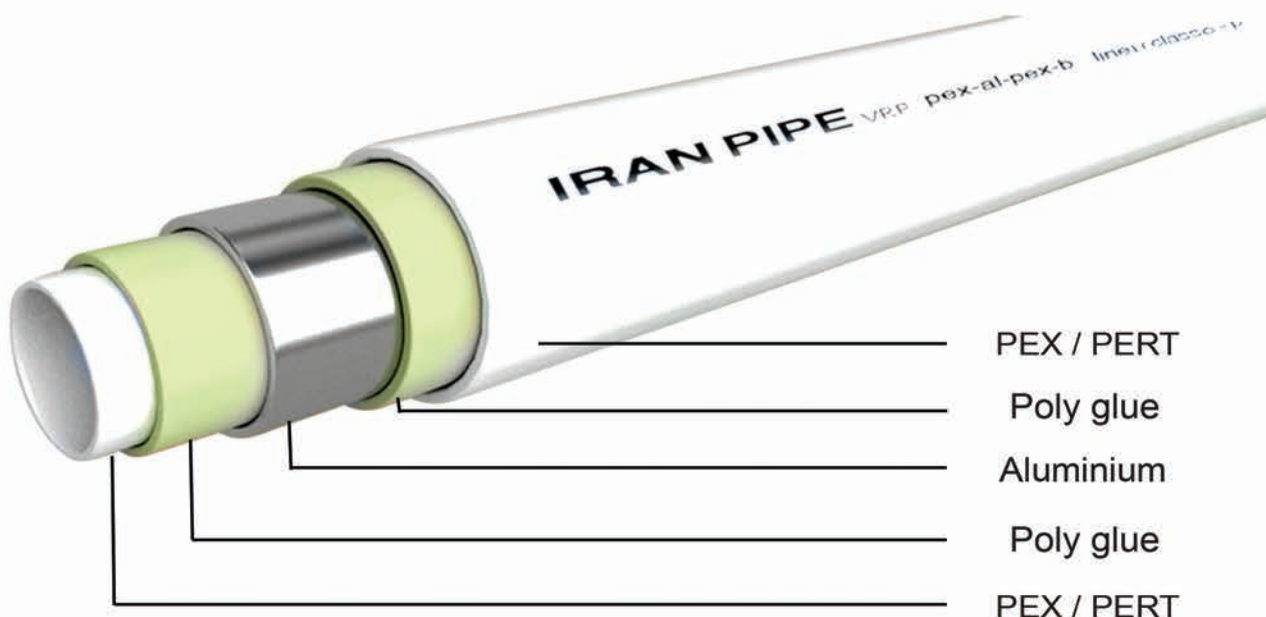
The polymer used in Iran Pipe five-layer pipes is a special type of polyethylene, which some its unique properties include resistance to corrosion, sediment, high-temperature tolerance, and very high ability to keep the drinking water healthy.

2. Glue layers:

The glue used in producing pipes is also one of the best glues in this industry and plays an essential role in creating the integration, incorporation, and resistance of pipes as much as possible, and on the other hand, control the longitudinal expansion of pipes.

3. Aluminum layers:

The aluminum used in the production of pipes is 8111-8011 alloy and has the maximum thickness according to the standard table. It should be noted that if there is any possible grease on aluminum foils, special materials are used to clean them, which creates a much more stable fusion and so a much better-quality pipe than the products of other companies.





Technical specifications of five-layer pipes

external diameter of pipe (mm)	wall thickness (mm)	aluminum thickness (mm)	inner diameter (mm)	weight per meter (g)	total weight of ring (kg)	ring area (m)	minimum bend radius with conduit bender (mm)	minimum bend radius with spring (mm)	minimum bend radius with conduit bender (mm)	Compression failure(bar)
16	2	0/20+0/02	12	112	21/400	200	80	64	56	95
20	2/25	0/25+0/02	15/5	141	22/720	150	100	80	76	70
25	2/5	0/28+0/02	20	212	22/240	100	125	100	85	65
32	3	0/35+0/05	26	320	25/530	75	160	128	126	62

The minimum allowable bend radius for five-layer pipes in sizes 16, 20, 25, and 32 according to the standard is 60, 50, 40, and 40 bar, respectively.

- The maximum allowable operating temperature for Iran Pipe five-layer pipes is 95°C and the pipes can tolerate this heat for a long time.

Advantages of Iran Pipe five-layer pipes

- The use of advanced PEX-PERT polymer
- Pressure tolerance at high temperatures continuously
- Resistant to corrosion and rot
- High flexibility during implementation, and fast installation
- Ability to be used in underfloor heating systems due to the advantage of heat transfer
- Minimal roughness of the inner surface and inability to deposit salts inside the pipes, so creating a minimum pressure loss in the piping system

Five-layer VRP fittings

Keeping our development, we have started to produce various types of five-layer fittings made of brass ingots with 58% copper, which are malleable. These fittings through their quality O-rings provide complete and long-time durability and sealing in difficult conditions. These fittings are produced and marketed in 2 types:



1. VRP press fittings

For this type, the steel ring available on the fitting is pressed on the pipe using a press jaw of the same size.



2. VRP coupling fittings

For this type, just by tightening the nut available on the fitting, the brass ring inside it is fastened on the pipe



Technical specifications of five-layer coupling fittings

brass MS58	Body
nickel	plating
brass MS58	split ring
brass MS58	coupling nut
EPDM	O-ring

Technical specifications of five-layer press fittings

brass MS58	Body
nickel	plating
تفلون نسوز ضد اسید P.T.F.E	nickel
فولاد ضد زنگ (304)	plastic ring
EPDM	steel ring
NBR	O-ring

How to join Iran Pipe five-layer pipes with VRP fittings

Regarding the different connection methods in press and coupling fittings, each fitting has a special method to be installed, and both types of fittings have the same initial steps. First, cut the pipe with scissors or a ring cutter to the required size, then widen slightly inside of the pipe with a caliber tool, and finally, concise the inner wall of the pipe using the blades at the end of the caliber in rotation. This is very important because, before calibration, the wall of the pipe is sharp and may tear the rubber O-ring of the fitting during installation, which can prevent sealing and cause leakage.

1. VRP press fittings

After finishing the steps described on the previous page, insert the pipe into the press fitting. To ensure that the pipe is fully inserted into the steel ring, you can use the hole at the end of the steel ring. Then, the steel ring is pressed on the pipe using a (hydraulic) electric press machine or manual press with a jaw of the same size as the pipe and the fitting.



2. VRP coupling fittings

For the coupling type, after finishing the initial steps, first, pass the fitting nut through the pipe and then insert the special ring into the nozzle. After that, enter the pipe into the fitting and tighten the nut with an open-end wrench or an adjustable wrench.



Note: Before starting the pressing of the press fittings, by removing the steel ring, make sure that there is a rubber O-ring on the fittings. Lack of rubber O-ring causes problems in sealing the press area.

Advantages of Iran Pipe five-layer pipes and VRP fittings

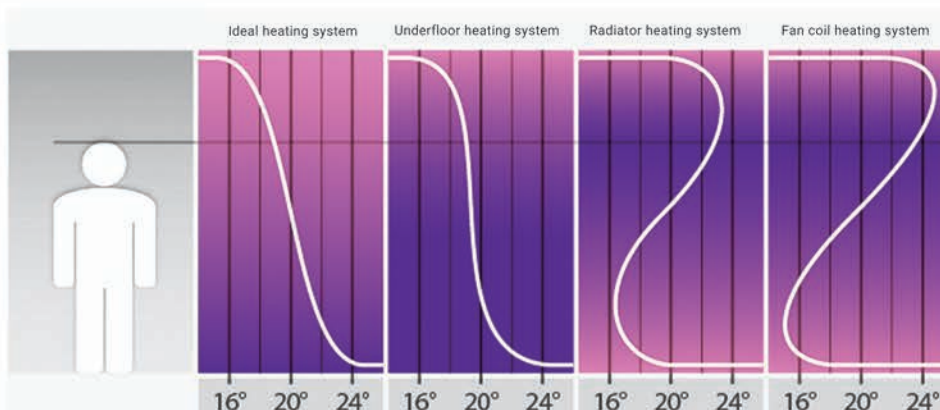
These pipes have the same advantages as the polymer pipes (which were mentioned in the section of the single-layer pipes) and in addition, incorporating metal and polymer has created other advantages for the pipes, including:

1. Faster and easier installation because of malleability.
2. Use in underfloor heating systems because of the very high capability to transfer heat through the wall.
3. High heat tolerance, even continuously.

Underfloor heating system using Iran Pipe five-layer pipes

Year after year, heating buildings in the cold seasons was a concern. A variety of companies around the world have tried to offer new and different methods to heat buildings.

The underfloor heating system is one of the most up-to-date and modern ways of heating buildings. As you know, using the usual methods, most of the heat generated is trapped near the roof of the building while this method creates more heat on the floor, which is pleasant. In this method, hot water enters the five-layer pipes through the collector (Manifold), and since the pipes are spread in a regular network on the floor of the building, it causes the heat in the pipes to transfer to the surface.

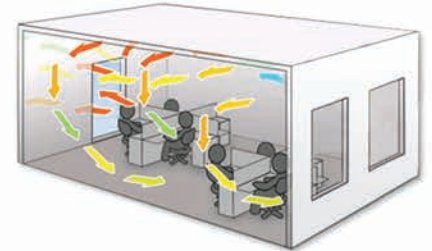


Using Iran Pipe five-layer pipes and fittings to create a floor heating system will bring you rest and comfort in the cold seasons of the year.

Why should we use the Iran Pipe underfloor heating system?

1. Pleasant and uniform heat flow

When using the radiator, the heat distribution occurs inappropriately. But in the underfloor heating system, because of the proper and uniform distribution of heat and the creation of relative humidity, we will have a pleasant environment.



2. More beautiful architecture

It is difficult to choose a place to install radiators so as not to damage the beauty of the interior decor of buildings while the underfloor heating system with the lack of radiators has solved the problem.



3. Clean walls

All heating systems of buildings cause the curtains and walls to be black with dirt. It is only the underfloor heating system by which there is no continuous need to clean the walls and curtains.



4. Safety and health

A warm, dry floor prevents the growth and proliferation of fungi and microscopic organisms that cause a variety of skin and respiratory diseases. However, the air humidity properly maintained makes the skin fresh, reduces the number of dust particles, so the problems such as asthma, allergic coughs, and seasonal diseases including rheumatism are minimized.



5. Energy saving

Iran Pipe underfloor heating system heats the objects and residents of the building instead of heating the air. Solar energy, lower water temperature, reduced heat loss and other reasons make the energy consumption in Iran Pipe underfloor heating system between 30% to 50% less than other heating methods.





pipe PERT-AL-PERT (Type2)

code	size	pack
50500	16	200
50501	20	150
50502	25	100
50503	32	75



pipe PEX-AL-PEX

code	size	pack
50400	16	200
50401	20	150
50402	25	100
50403	32	75



pipe foam

code	size	pack
50100	16	100
50101	20	100
50102	25	100
50103	32	100



sheet insulation

code	size	pack
33122	10 MM	50
33126	20 MM	25
33128	25 MM	25
33130	32 MM	25



Press female straight fitting

code	size	pack
40410	16 × 1/2	240
40412	20 × 1/2	240
40414	20 × 3/4	128
40418	25 × 3/4	96
40420	25 × 1	64
40422	32 × 1	64



press straight fitting

code	size	pack
30110	16×16	240
30112	20×20	160
30114	25×25	96
30116	32×32	64



Press male straight fitting

code	size	pack
40210	16 × 1/2	240
40212	20 × 1/2	240
40214	20 × 3/4	128
40216	25 × 1/2	120
40218	25 × 3/4	96
40220	25 × 1	80
40222	32 × 1	80



Press straight reducing bushing

code	size	pack
30210	20×16	192
30212	25×16	128
30214	25×20	96
30216	32×20	96
30218	32×25	64



press converter tee

code	size	pack
30740	16×20×16	96
30742	20×16×16	96
30744	20×16×20	80
30746	20×20×16	80
30748	25×16×16	80
30749	25×16×20	48
30750	25×16×25	48
30752	25×20×20	48
30754	25×20×25	48
30755	25×25×16	48
30756	25×25×20	48
30757	32×16×25	32
30758	32×16×32	32
30760	32×20×32	32
30762	32×25×25	32
30764	32×25×32	32



press tee

code	size	pack
30710	16×16×16	128
30712	20×20×20	80
30714	25×25×25	32
30716	32×32×32	24



press wall elbow

code	size	pack
31610	16 × 1/2	160
31614	20 × 1/2	112
31618	25 × 3/4	80
31622	32 × 1	48



press wall tee 90°

code	size	pack
31510	16×1/2×16	96
31512	16×1/2×20	64
31514	20×1/2×20	64
31516	20×1/2×16	64



press female plate elbow

code	size	pack
30910	16 × 1/2	96
30914	20 × 1/2	80



Press elbow 90°

code	size	pack
30510	16 × 16	192
30512	20 × 20	112
30514	25 × 25	64
30516	32 × 32	32



Press male elbow 90°

code	size	pack
40520	25×1"	64
40522	32×1"	56



press reducing elbow

code	size	pack
40610	16×1/2	192
40612	20×1/2	160
40614	20×3/4	96
40618	25×3/4	64
40620	25×1	64
40622	32×1	32





press pipe union

code	size	pack
40810	16 × 1/2	به زودی
40816	20 × 1/2	به زودی
40820	25 × 3/4	32
40824	32 × 1	24



coupling male elbow 90°

code	size	pack
70518	25 × 3/4	40
70520	25 × 1	32
70522	32 × 1	24



press plug

pack	size	code
31910	16mm	400
31912	20mm	288
31914	25mm	160
31916	32mm	-



coupling elbow 90°

code	size	pack
70410	16 × 16	88
70412	20 × 20	56
70414	25 × 25	32
70416	32 × 32	16



coupling male adapter

code	size	pack
60208	16×1/2	120
60210	20×1/2	100
60215	20×3/4	80
60212	25×3/4	64
60220	25×1	48
60218	32×1	40



coupling tee

code	size	pack
70710	16×16×16	60
70712	20×20×20	40
70714	25×25×25	16
70716	32×32×32	12



coupling female adapter

code	size	pack
60108	16×1/2	144
60110	20×1/2	120
60112	20×3/4	96
60114	25×3/4	64
60118	32×1	32



coupling wall elbow

code	size	pack
71610	16 × 1/2	60
71614	20 × 1/2	40
71618	25×3/4	40



simple coupling bushing

code	size	pack
70110	16×16	112
70112	20×20	80
70114	25×25	40
70116	32×32	24



coupling reducing elbow

code	size	pack
70610	16×1/2	80
70612	20×1/2	64
70618	25 × 3/4	32
70620	25 × 1	32
70622	32×1	20





Iran Pipe five-layer pipes
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coupling female plate elbow

code	size	pack
70910	16×1/2	48
70914	20×1/2	48



coupling wall tee 90

code	size	pack
71510	16×1/2×16	32
71514	20×1/2×20	-



coupling wall tee 180°

code	size	pack
71710	16×1/2×16	56
71714	20×1/2×20	32



coupling female plate tee

code	size	pack
71310	16×1/2×16	40
71314	20×1/2×20	32



coupling male elbow valve

code	size	pack
45454	25 × 1	24
45456	32 × 1	-



collector valve

code	size	pack
45022	16 × 1/2	48
45024	20 × 1/2	48
45044	25 × 3/4	32



reducing elbow

code	size	pack
20610	1/2	88
20612	3/4	56
20614	1	32



male-female threaded adapter

code	size	pack
20210	1/2 × 3/4	120
20212	1 × 3/4	80



bleed reducing elbow

code	size	pack
20116	1" توپیچ × 1/2 روپیچ	56



manifold box (with base and clip)

code	size	pack
20406	شماره 3/4 × 1/2 شماره 3/4	120
20408	شماره 1/2 × 3/4 شماره 3/4	240
20410	شماره 1 × 3/4 شماره 3/4	80
20412	شماره 1/2 × 1 شماره 3/4	144
20450	شماره 3/4 × 1 شماره 3/4	132
20452	شماره 1 × 1 1/4 شماره 3/4	80
20454	شماره 3/4 × 1 1/4 شماره 3/4	80
20456	شماره 1 × 1 1/2 شماره 3/4	64
20458	شماره 1 1/4 × 1 1/2 شماره 3/4	64
20460	شماره 1 × 2 شماره 3/4	32
20462	شماره 1 1/4 × 2 شماره 3/4	32
20464	شماره 1 1/2 × 2 شماره 3/4	28





Brass collector 3/4

code	size	pack
22512	3/4×1/2 2b	5
22513	3/4×1/2 3b	5
22514	3/4×1/2 4b	5
22515	3/4×1/2 5b	5



brass collector 1/2 1

code	size	pack
22564	1 1/2×1/2 4b	3
22565	1 1/2×1/2 5b	3
22566	1 1/2×1/2 6b	3
22567	1 1/2×1/2 7b	3
22568	1 1/2×1/2 8b	3
22569	1 1/2×1/2 9b	3
22570	1 1/2×1/2 10b	3
22571	1 1/2×1/2 11b	3
22572	1 1/2×1/2 12b	3
22573	1 1/2×3/4 3b	3
22574	1 1/2×3/4 4b	3
22575	1 1/2×3/4 5b	3
22576	1 1/2×3/4 6b	3
22577	1 1/2×3/4 7b	3
22578	1 1/2×3/4 8b	3
22579	1 1/2×3/4 9b	3
22580	1 1/2×3/4 10b	3
22581	1 1/2×3/4 11b	3
22582	1 1/2×3/4 12b	3



brass collector 1

code	size	pack
22522	1×1/2 2b	5
22523	1×1/2 3b	5
22524	1×1/2 4b	5
22525	1×1/2 5b	5
22526	1×1/2 6b	5
22527	1×1/2 7b	5
22528	1×1/2 8b	5
22529	1×1/2 9b	5
22530	1×1/2 10b	5
22531	1×1/2 11b	5
22532	1×1/2 12b	5
22533	1×3/4 3b	5
22534	1×3/4 4b	5
22535	1×3/4 5b	5
22536	1×3/4 6b	5



brass collector 2

code	size	pack
23523	2×3/4 3b	2
23524	2×3/4 4b	2
23525	2×3/4 5b	2



brass collector 1 1/4

code	size	pack
22543	1 1/4× 1/2 3b	4
22544	1 1/4× 1/2 4b	4
22545	1 1/4× 1/2 5b	4
22546	1 1/4× 1/2 6b	4
22547	1 1/4× 1/2 7b	4
22548	1 1/4× 1/2 8b	4
22549	1 1/4× 1/2 9b	4
22550	1 1/4× 1/2 10b	4
22551	1 1/4× 1/2 11b	4
22552	1 1/4× 1/2 12b	4
22553	1 1/4× 3/4 3b	4
22554	1 1/4× 3/4 4b	4
22555	1 1/4× 3/4 5b	4
22556	1 1/4× 3/4 6b	4



brass collector

code	size	pack
25111	3/4	80
25113	1	80
25115	1 1/4	30



collector base and climp

code	size	pack
25056	1 1/2_3/4	-



collector base

code	size	pack
۲۵۰۵۰	-	۱۰۰



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metal plug with bleed valve

code	size	pack
22608	3/4	180
22606	1	160
22607	1 1/4	88



steel ring

code	size	pack
50110	16	800
50112	20	640
50114	25	240
50116	32	192



bleed male plug

code	size	pack
22601	3/4	220
22600	1	200
22602	1 1/4	96



pipe nipple

code	size	pack
20110	1/2	240
20112	3/4	144
20114	1	64



Manifold male plug

code	size	pack
22591	3/4	220
22592	1	200
22594	1 1/4	96



male-female threaded nipple

code	size	pack
20310	1/2	160
20312	3/4	80
20314	1	40



manual bleed screw

code	size	pack
22610	1/8	400
22612	1/4	400



coupling fitting ring

code	size	pack
601081	16	100
601101	20	50
601141	25	40
601181	32	30



threaded plug

code	size	pack
22250	20	700
22252	25	450
22254	32	350



coupling fitting ring

code	size	pack
601083	16	100
601103	20	100
601143	25	50
601183	32	50





installation bracket

code	size	pack
22310	63 تک	25
22410	153 زوج	25
22411	280 زوج	25
22451	280 قوس دار	25
22412	500 رادیاتوری	25
22452	زیر پکیج	25



collectors box (with base and clamp)

code	size	pack
25010	45 × 45	1
25012	45 × 65	1
25022	45 × 75	1
25016	45 × 85	1
25014	45 × 95	1



plastic long plug

code	size	pack
22210	20 blue	130
22212	20 red	130
22214	25 blue	90
22216	25 red	90
22218	32 blue	60
22220	32 red	60



single pipe clip

code	size	pack
22110	16	750
22112	20	800
22114	25	550
22116	32	300



double pipe clip

code	size	pack
22150	16	300
22152	20	300
22154	25	200



O-ring

code	size	pack
50210	16	100
50212	20	100
50214	25	100
50216	32	50



barbical pipe clip

code	size	pack
22160	16	2000





Bista baspar

مخازن پلی اتیلن
www.bistbasparco.com

Bista baspar





Bist Baspar polyethylene tanks are made of high-quality materials, with high thickness and weight; they are manufactured in several types of single-layers, three-layers, and four-layers, and also in various designs, with either white or blue inner layers.

Important points when buying Bist Baspar tanks

- It is recommended to use single-layer tanks to store drinking water in a completely indoor space.
- It is recommended to use three-layer tanks to store drinking water outdoors in moderate zones.
- It is recommended to use 4-layer tanks to store drinking water outdoors in tropical, cold zones and more for medicinal
- It is recommended to use vertical tanks, when necessary, to fill and empty the tanks daily.

Advantages of Bist Baspar Polyethylene Tanks

- Polyethylene tanks weigh much less than metal ones.
- Because of high resistance to heat and coldness, polyethylene tanks can be used in all geographical regions.
- Because of anti-corrosion capability, polyethylene tanks are the only suitable option for humid zones.
- Because of anti-corrosion capability, polyethylene tanks are the best option to store acids.
- It is possible to produce in the customized size and thickness.
- Grooves created on the body, make the tanks stronger.

Important points when transporting Bist Baspar tanks

- When transporting and discharging of vehicles, prevent dropping or rolling the tanks on the ground.
- When transporting by vehicles, secure the tanks with a rope.

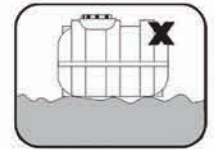
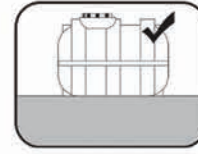


Important points when installing Bist Baspar tanks

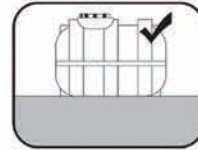
- **Don't roll the tanks on which the fittings are installed.**
- Fasten firmly the fittings will damage the tanks.
- If you connect the tank outlet to the pump, use a vibration dampener to prevent the transmission of vibrations caused by the pump vibration to the tank.



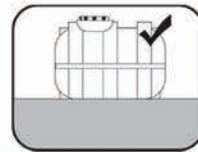
- The location of the tanks has to be completely smooth and even.



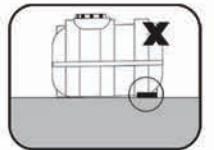
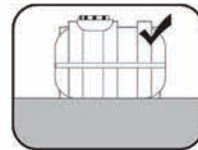
- The location of the tanks has to be perfectly level.



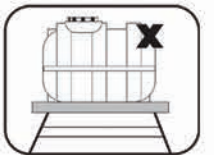
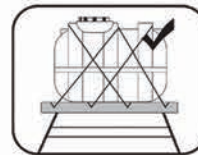
- The location of tanks has to be at least 10% larger than their dimensions and also bear the weight of a full-of-liquid tank.



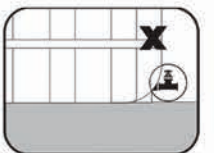
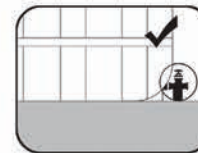
- The location of tanks has to be at least 10% larger than their dimensions and also bear the weight of a full-of-liquid tank.



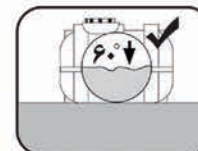
- If the location of the tanks is at height, to prevent vibrations caused by the wind when the tanks are empty, fasten firmly them to the relevant structure.



- It is necessary to prepare some support for the tank outlet valve.



- Avoid storing liquids with a temperature of more than 60 °C in Bist Baspar tanks



- To prevent the increase or decrease of pressure inside the tanks, it is necessary to install an overflow pipe at least twice the diameter of the inlet pipe.

- Avoid hitting sharp objects and applying concentrated load to the tanks.

- Avoid rolling tanks on which fittings are installed.

- Any chemical operations such as diluting acids and bases with water or placing water vapor in the tanks are not allowed.

-If you use the city water network to fill the tanks, Use a mechanical floater in the water inlet path Check periodically to make sure it is working properly.



Horizontal Tanks

Horizontal Tanks

CODE	AMOUNT	LENGTH	WIDTH	HEIGHT
80200	100 liter	72	53	56
80202	200 liter	95	57	64
80204	300 liter	105	65	70
80208	500 liter	134	77	84
80212	800 liter	157	87	95
80214	1000 liter	164	97	103
80216	1500 liter	196	110	114
80218	2000 liter	200	125	130
80220	3000 liter	235	139	147



Vertical Tanks

Vertical Tanks

CODE	AMOUNT	DIAMETER	HEIGHT
81204	200 لیتری	60	88
82208	500 لیتری بلند	66	162
82212	800 لیتری بلند	90	150
81214	1000 لیتری کوتاه	115	117



Under-Stairs Tanks

Under-Stairs Tanks

CODE	AMOUNT	LENGTH	WIDTH	HEIGHT
83210	750 لیتری	153	77	86
84210	750 لیتر اکستروود	153	77	86



Brass Fitting

Brass Fitting

CODE	AMOUNT
89900	1/2"
89902	3/4"
89904	1"



Bista baspar

The Products Guarantee of Bist Baspar Spadana Industrial Group

Bist Baspar Spadana Industrial Group (Private Joint-Stock Company), hereby, guarantees its polyethylene water tanks for 5 years from installation and on the extent of the damage.

It is noteworthy that the installation of Bist Baspar Spadana polyethylene tanks has to be done according to the principles and standards (as described in the company's catalog) by experts, and, after finishing, the commercial invoice has to be attached to the guarantee.

As a representative or sales agent announces any problems or damages, if any, to Bist Baspar Spadana Industrial Group, their experts will inspect the installed polyethylene tanks. If the lack of desirable and technical quality of the products is found, all damages will be paid by the company.

The following are excluded the guarantee:

1. Breakage resulting from impact or improper installation
2. Defects caused by wear or burn of the tanks
3. Installing fittings in places other than the intended points
4. Fittings and accessories
5. Defects resulting from transporting the tanks
6. Bursting tanks lacking of inlet water controller
7. The liquid stored in tanks, under any circumstances, is excluded the guarantee.
8. Not having the guarantee and commercial invoice with you
9. The guarantee without date, seal and signature of the store and expert



Receive the company's number and seal up to 10 days after installing and filling the guarantee out (the guarantee without company's number and seal is not valid).

Customer's name:

Purchase date:

Purchase price:

Customer's address (for installing the tanks):

We, _____, as the supervisor/employer, and _____, as the expert, on (date) ___ certify that Bist Baspar Spadana Industrial Group's polyethylene tanks under the brand name Bist Baspar have been installed and delivered, without any defects, following the company's regulations.

Supervisor/Employer Signature:

Expert Signature:

Project owner:

Sales Representative:

Bist Baspar Spadana Industrial Group

Distribution of copies: white (consumer), green (sales representative), yellow (Bist Baspar Company)

The Products Guarantee of Bist Baspar Spadana Industrial Group

Bist Baspar Spadana Industrial Group (Private Joint-Stock Company), hereby, guarantees its single-layer and five-layer products for 20 years from installation and on the extent of the damage.

It is noteworthy that the piping system has to be done according to the principles and standards (as described in the company's catalog) by experts, and, after finishing, the network pressure test has to be done by the expert, and the commercial invoice has to be attached to the guarantee.

It is obvious that if the network pressure test is performed accurately, the defects if any, will be revealed and it will be possible to fix them before any damage.

As a representative or sales agent announces any problems or damages, if any, to Bist Baspar Spadana Industrial Group, their experts will inspect the pipes and fittings. If the lack of desirable and technical quality of the products is found, all damages will be paid by the company.

The following are excluded the guarantee:

1. Damages caused by improper installation by experts
2. Using pipes and fittings at temperatures higher than allowed
3. Not to use a standard press for Iran Pipe 5-layers pipes and fittings
4. Not to use a standard fusion machine for single-layer pipes and fittings
5. Damages caused by improper transporting and not protecting against impact
6. Damage caused by frost
7. Using of single-layer pipes with cracks on the surface
8. Using pipes and fittings other than Bist Baspar and Iran Pipe ones
9. Not attaching commercial invoice and not performing network pressure test by the expert

Receive the company's number and seal up to 10 days after installing and filling the guarantee out (the guarantee without the company's number and seal is not valid).

Customer's name:

Purchase date:

Purchase price:

Customer's address (for installing the tanks):

We, _____, as the supervisor/employer, and _____, as the expert, on (date) ___ certify that Bist Baspar / Iran Pipe's piping system pressure test has been performed and delivered, without any defects, following the company's regulations.

Supervisor/Employer Signature:

Expert Signature:

Project owner:

Sales Representative:

Bist Baspar Spadana Industrial Group

Certificate of Registration

This is to certify that the

Loolah Bist Baspar Spadana Co.

Located at:

No.6, Phase 2, 5th Ave., Mobarakeh Industrial Town, Isfahan, Iran.

for

Production of Polypropylene Pipes and Connectors.

Has been assessed and registered against the provisions of

ISO14001:2015

International Standard

With

IAF Code: 14

Certification Number: 572890

Current Date: May 19, 2020

Modification Date: N/A

NACE Code: DH 25.2

Original Date: May 31, 2014

Expiration Date: May 18, 2023



Dennis Russell
Dennis Russell
Certification Director
Toronto, Canada
www.ariscert.com

Environmental Management System

EC DECLARATION OF CONFORMITY

Loleh Bist Baspar Spadana Co.

Located at:

No.6, Phase 2, 5th Ave., Mobarakeh Industrial Town, Isfahan, Iran.

I/We here with declare under our responsibility that the products special bellowed are manufactured in conformity with the EC Directive: (97/23/EC) (PED)

EU Authorized Representative: Mr. Masoud Tavasoli

Description of Products: Polypropylene Pipes and Connectors.

Applicable Directives: 89/106/EC (CPD)

This verification is subjected to the company maintaining its system to the required standard, which will be monitored by Alliance.

Certification Number: LBS4498

Current Date: May 19, 2020

Original Date: August 03, 2013

Expiration Date: May 18, 2023



Dennis Russell
Dennis Russell
Certification Director
Toronto, Canada
www.ariscert.com

CERTIFICATE

TUV
CANADA

Certificate No. 20051901

Standard: ISO9001:2015

TUV CANADA Certifies:

Certificate Holder:

Loolah Bist Baspar Spadana Co.

No.6, Phase 2, 5th Ave., Mobarakeh Industrial Town, Isfahan, Iran.

Scope: Production of Polypropylene Pipes and Connectors.

An audit of the TUV CANADA has proved evidence that quality management system conforms to the requirements of the specified standard.

The certificate is valid from: 5/19/2020 until 5/18/2023.



James McLearty
TUV CANADA
President



Certificate of Registration

This is to certify that the

Loleh Bist Baspar Spadana Co. (Laboratory)

Located at:

No.6, 4th Phase, 7th Street, 3rd Section, Mobarakeh Industrial Tone, Isfahan, Iran.

for

Testing Polypropylene Pipes and Connectors.

Has been assessed and registered against the provisions of

ISO/IEC17025:2017

International Standard

With

IAF Code: 14

Certification Number: QL28258525

Current Date: May 19, 2020

Modification Date: N/A

NACE Code: DH 25.2

Original Date: May 31, 2014

Expiration Date: May 18, 2023



Dennis Russell
Dennis Russell
Certification Director
Toronto, Canada
www.ariscert.com

Management System