

THE
BEST
CHOICE...

iranpipe
5-layer pipe & fittings

bistbaspar
polypropylene pipe & fittings

bistabaspar
polyethylene tanks



BIST BASPAR SPADANA CO.

*Manufacturer Of Polypropylene Pipe & Fittings
5 - Layer Pipe & Brass Fittings*

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 producer 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 manufacturer 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

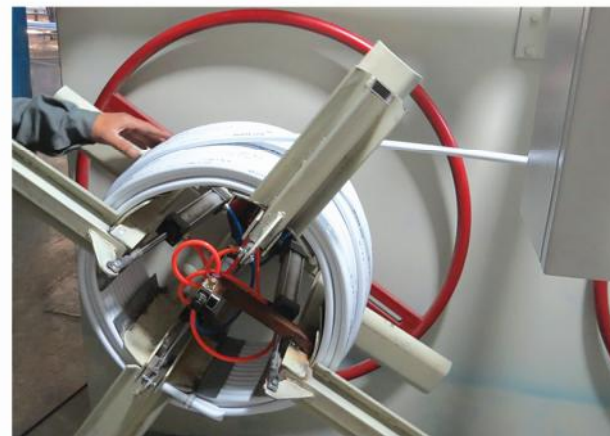
All raw materials required by this company, including single-layer polypropylene materials, PEX, PERT, aluminum, brass ingots, glues, pigments at the time of entering the factory are controlled and their desired quality consistent with existing standards is tested, and if approved, the permission to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



bistbaspar
polypropylene pipe & fittings



POLYMER PIPE

INDUSTRIAL GROUP BIST BASPAR SPADANA



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, 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.

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

polymer fittings

Some polymer fittings include brass nuts, which also play an important role in the quality of male & female connectors. 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 nuts 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 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 260 - 10C°, and after heating the machine, which lasts for 20 to 30 minutes, you can start the fusion process.

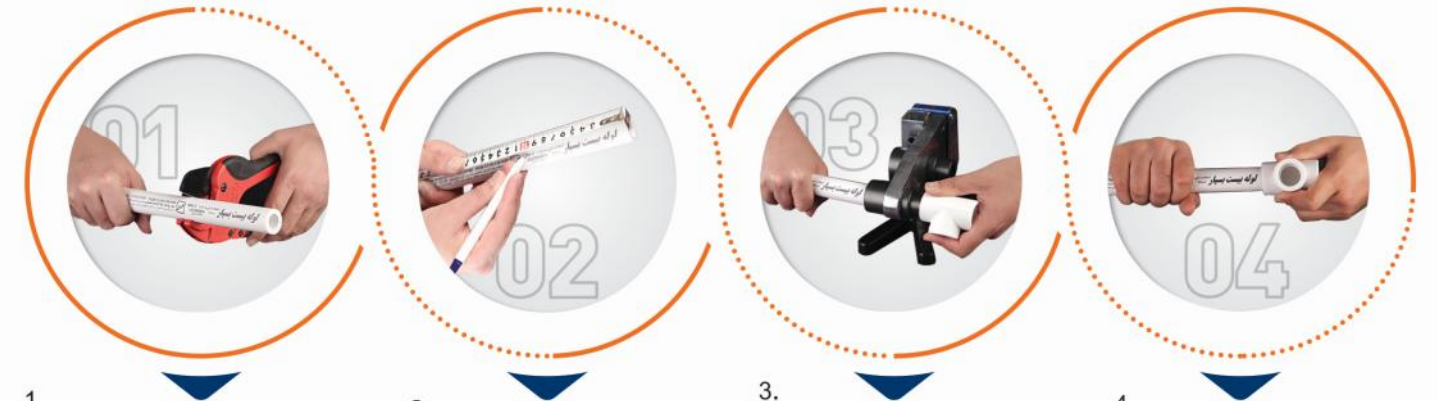
fusion guideline table according to the standard

pipe diameter (mm)	depth of fusion (mm)	heating time (O°)	welding time (O°)	cooling time (O°)
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 260 - 10 C° causes molecular degradation and not fusing respectively.

Connection Steps



1. Cut the used pipe 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.



○ Dos:

- 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
- Be very careful in transportation
- Use PTFE tape to install metal fittings
- Use suitable insulation for pipes in cold weather

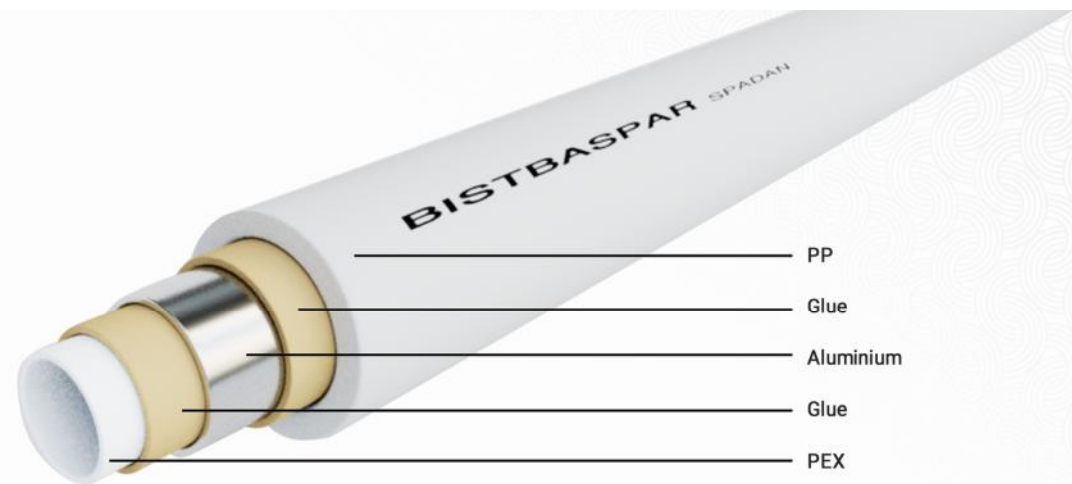
○ Don'ts

- 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?

- Because polymeric materials do not oxidize, they do not rust and have great longevity (typically up to 50 years).
- Because the inside of the pipe is very polished and as a result, it does not deposit and will not have a pressure drop.
- Because Bist Baspar polymer pipes can tolerate high pressure and heat, they can be used in heating systems (radiators).
- Because the polymer nature of Bist Baspar products does not combine with acids and bases, they are suitable for the transfer of chemicals.
- 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.





5-layer welded pipes

Bist Baspar five-layer 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 type of pipes are an upgraded model for those water-distribution systems where single-layer connections are used.

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

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

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

The proper method of fusing Bist Baspar 5-layer welded pipes



Advantages of 5-layer 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 5-layer welded pipes

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



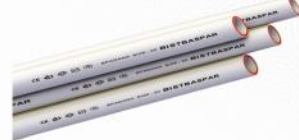
Pipe

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



5-layer welded pipe

Code	Size	Pack
20130	20	120
20132	25	80
20134	32	60



Three-layers fibrous pipe

Code	Size	Pack
20140	20	140
20142	25	100
20144	32	60
20146	40	40
20148	50	24
20150	63	16



Three-layers polymeric pipe

Code	Size	Pack
20160	20	140
20162	25	100
20164	32	60
20166	40	40
20168	50	24
20170	63	16



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



Reducing tee

Code	Size	Pack
20441	25x20x20	110
20440	25x20x25	110
20442	25x25x20	110
20443	32x20x32	55
20444	32x25x32	55
20445	40x20x40	35
20446	40x25x40	35
20447	40x32x40	35
20448	50x20x50	24
20449	50x25x50	24
20450	50x32x50	24
20451	50x40x50	24
20452	63x20x63	10
20453	63x25x63	10
20454	63x32x63	10
20455	63x40x63	10
20456	63x50x63	10



Female connector

Code	Size	Pack
20510	20x1/2	230
20512	25x1/2	180
20514	25x3/4	140
20516	32x1/2	90
20518	32x3/4	90
20520	32x1	90
20522	40x1x1/4	52
20524	50x1x1/2	36
20525	63x2	24
20526	75x2x1/2	15
20527	90x3	7
20528	110x4	-



Male Connector

Code	Size	Pack
20610	20x1/2	180
20612	25x1/2	160
20614	25x3/4	120
20616	32x1/2	80
20618	32x3/4	80
20620	32x1	75
20622	40x1x1/4	40
20624	50x1x1/2	35
20625	63x2	20
20626	75x2x1/2	11



Conversion

Code	Size	Pack
20240	25x20	420
20241	32x20	300
20242	32x25	260
20243	40x20	190
20244	40x25	160
20245	40x32	140
20246	50x20	110
20247	50x25	110
20248	50x32	90
20249	50x40	70
20250	63x20	50
20251	63x25	50
20252	63x32	50
20253	63x40	50
20254	63x50	40
20255	75x40	30
20256	75x50	30
20257	75x63	30
20258	90x50	22
20259	90x63	22
20260	90x75	20
20261	110x63	12
20262	110x75	12
20263	110x90	12



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



Elbow 45°

Code	Size	Pack
20350	20	320
20352	25	190
20354	32	100
20356	40	60
20358	50	30
20360	63	14



Corner tee

Code	Size	Pack
20430	20	170
20432	25	110



Bushen

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



90°male & female connector

Code	Size	Pack
20370	20	220
20372	25	160



Conversion elbow

Code	Size	Pack
20340	20x25	150
20342	32x20	80
20344	32x25	80



Wall metal female knee

Code	Size	Pack
20550	20x1/2	100
20552	25x1/2	100
20554	25x3/4	80



Femal connection elbow

Code	Size	Pack
20530	20x1/2	140
20532	25x1/2	125
20534	25x3/4	110
20536	32x1/2	60
20538	32x3/4	60
20540	32x1	60
20542	40x1x1/4	32



Male connection elbow

Code	Size	Pack
20630	20x1/2	120
20632	25x1/2	100
20634	25x3/4	90
20636	32x1	50



Wall metal male knee

Code	Size	Pack
20650	20x1/2	100
20651	20x3/4	90
20652	25x1/2	90
20654	25x3/4	70



Wall metal bushing tee

Code	Size	Pack
20590	20x1/2	100
20592	25x1/2	70
20594	25x3/4	70



Metal tee

Code	Size	Pack
20570	20x1/2	130
20571	20x3/4	100
20572	25x1/2	80
20574	25x3/4	80
20576	32x1/2	40
20578	32x3/4	40
20580	32x1	40
20582	40x1x1/4	25



Metal male tee

Code	Size	Pack
20670	20x1/2	100
20672	25x1/2	80
20674	25x3/4	80



Wall metal male tee

Code	Size	Pack
20690	20x1/2	80
20692	25x1/2	60
20694	25x3/4	60



Welded threaded pipe union

Code	Size	Pack
20730	20	85
20732	25	75
20734	32	50



Short bridge fitting with clip

Code	Size	Pack
21260	20	120
21262	25	85



Single open pipe clip

Code	Size	Pack
21310	20	1000
21312	25	750
21314	32	450
21316	40	280



Double open pipe clip

Code	Size	Pack
21340	20	350
21342	25	300



Short plastic plug

Code	Size	Pack
21510	20	1000
21512	25	600
21514	32	430



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



Coupling threaded pipe union

Code	Size	Pack
20740	20	85
20742	25	75



Zoning valve

Code	Size	Pack
20810	20	60
20812	25	45
20814	32	30
20816	40	20



Upper of zoning valve

Code	Size	Pack
20820	20	150
20822	25	125
20824	32	75
20826	40	75



Cap

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



Plastic plug

Code	Size	Pack
21610	20	160
21612	25	110
21614	32	70



Stencil

Code	Size	Pack
21810	20cm	300
21812	50cm	80



Two element piping iron

Code	Size	Pack
50070	-	-



Lower of zoning valve

Code	Size	Pack
20850	20	90
20852	25	65
20854	32	40
20856	40	25



Gas valve

Code	Size	Pack
20830	20	45
20832	25	45
20834	32	28
20836	40	18
20838	50	12
20840	63	8



Curved pipe

Code	Size	Pack
21210	20	60
21212	25	40
21214	32	25
21216	40	12



Bushing bridge

Code	Size	Pack
21240	20	95
21242	25	50



Scissor

Code	Size	Pack
50040	-	-



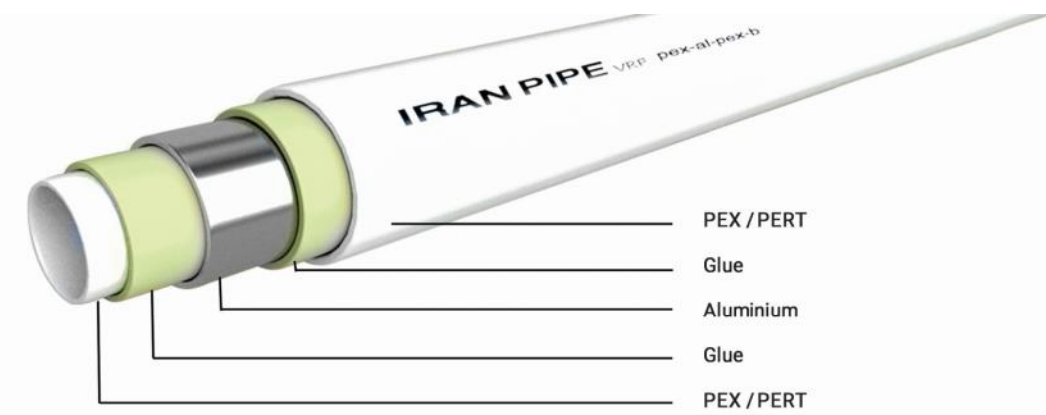
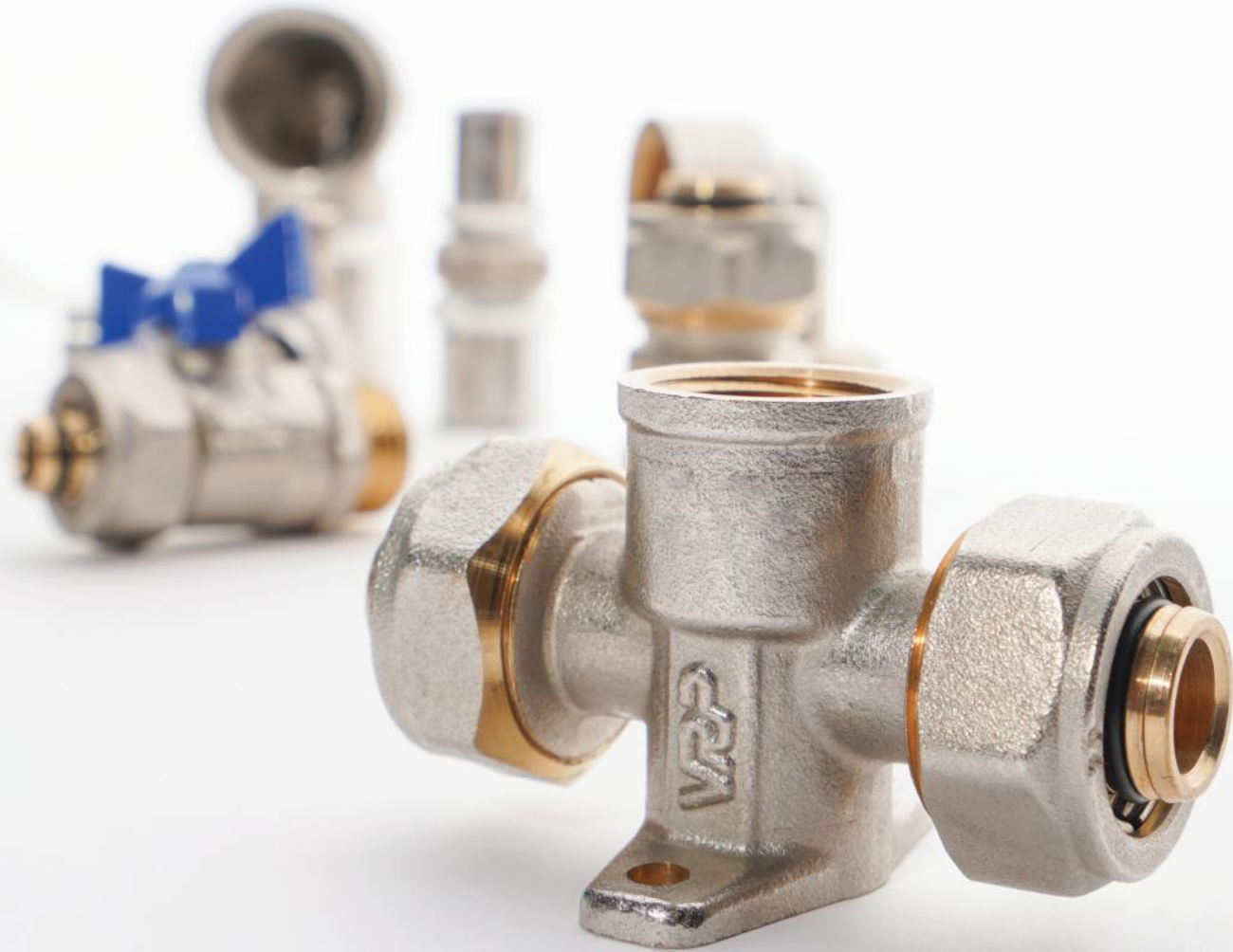
Iron mold

Code	Size	Pack
50071	20	-
50072	25	-
50073	32	-
50074	40	-
50075	50	-
50076	63	-
50077	75	-
50078	90	-
50079	110	-



iranpipe

layer pipe & fittings-5



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.

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.

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.

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 product 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)
mm	mm	mm	mm	g	kg	m	mm	mm	mm	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 Rupture Pressure 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 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.



Technical specifications of five-layer press fittings

Body	brass MS58
electroplating	nickel
plastic ring	Fireproof Teflon P.T.F.E
steel ring	Stainless Steel (304)
O-ring	EPDM
washer	NBR

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

Body	brass MS58
electroplating	nickel
plastic ring	brass MS58
steel ring	brass MS58
Oring	EPDM

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

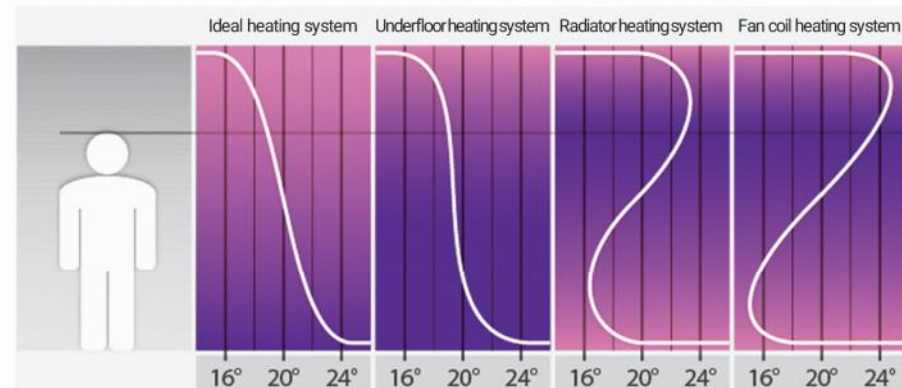
These pipes have the same advantages as the polymer pipes (which were mentioned in the section of the single-layer pipes) and in addition, incorporating metal and polymer has created other advantages for the pipes, including:

- Faster and easier installation because of malleability
- Use in underfloor heating systems because of the very high capability to transfer heat through the wall
- 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.

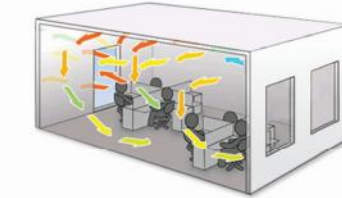


Using Iran Pipe five-layer pipes and fittings to create a floor heating system will bring you rest and comfort in the cold seasons of the year

Why should we use the Iran Pipe underfloor heating system?

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.



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.



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.



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.



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.



5-layer pipes & fittings



Pipe PEX-AL-PERT(TYPE2)

Code	Size	Pack	Carton
50400	16	200	-
50401	20	150	-
50402	25	100	-
50403	32	75	-



Pipe PEX-AL-PEX

Code	Size	Pack	Carton
50500	16	200	-
50501	20	150	-
50502	25	100	-
50503	32	75	-



press straight

Code	Size	Pack	Carton
30110	16x16	30	240
30112	20x20	10	160
30114	25x25	12	96
30116	32x32	8	64



Press conversion bushing

Code	Size	Pack	Carton
30210	20x16	24	192
30212	25x16	16	128
30214	25x20	12	96
30216	32x20	12	96
30218	32x25	8	64



Press conversion tee

Code	Size	Pack	Carton
30740	16x20x16	12	96
30742	20x16x16	12	96
30744	20x16x20	10	80
30746	20x20x16	10	80
30748	25x16x16	10	80
30749	25x16x20	6	48
30750	25x16x25	6	48
30751	25x20x16	6	48
30752	25x20x20	6	48
30754	25x20x25	6	48
30755	25x25x16	6	48
30756	25x25x20	6	48
30757	32x16x25	4	32
30758	32x16x32	4	32
30760	32x20x32	4	32
30761	32x20x25	4	32
30763	32x25x20	4	32
30762	32x25x25	4	32
30764	32x25x32	4	32



Press wall tee 90°

Code	Size	Pack	Carton
31510	16x1/2x16	12	96
31512	16x1/2x20	8	64
31514	20x1/2x20	8	64
31516	20x1/2x16	8	64



Press wall tee 180°

Code	Size	Pack	Carton
31710	16x1/2x16	12	96
31714	20x1/2x20	10	80



Female tee fitting 180°

Code	Size	Pack	Carton
40760	16x1/2x16	15	120
40762	20x1/2x20	12	96



Press male straight

Code	Size	Pack	Carton
40210	16x1/2	30	240
40212	20x1/2	30	240
40214	20x3/4	16	128
40216	25x1/2	15	120
40218	25x3/4	12	96
40220	25x1	10	80
40222	32x1	10	80



Press female straight

Code	Size	Pack	Carton
40410	16x1/2	30	240
40412	20x1/2	30	240
20414	20x3/4	16	128
20418	25x3/4	12	96
40420	25x1	8	64
40422	32x1	8	64



Press street elbow

Code	Size	Pack	Carton
40610	16x1/2	24	192
40612	20x1/2	20	160
40614	20x3/4	12	96
40618	25x3/4	8	64
40320	25x1	8	64
40622	32x1	4	32



Press male elbow 90°

Code	Size	Pack	Carton
40510	16x1/2	24	192
40512	20x1/2	20	160
40518	25x3/4	10	80
40520	25x1"	8	64
40522	32x1"	7	56



Thread connector with press nut

Code	Size	Pack	Carton
40810	16x1/2	-	-
40816	20x1/2	-	-
40820	25x3/4	8	32
40824	32x1	6	24



Press plug

Code	Size	Pack	Carton
31910	16 mm	50	400
31912	20 mm	36	288
31914	25 mm	20	160
31916	32 mm	14	112



Compression male straight

Code	Size	Pack	Carton
60208	16x1/2	30	120
60210	20x1/2	25	100
60215	20x3/4	20	80
60211	25x1/2	16	64
60212	25x3/4	16	64
60220	25x1	12	48
60218	32x1	10	40



Press elbow 90°

Code	Size	Pack	Carton
30510	16x16	24	192
30512	20x20	14	112
30514	25x25	8	64
30516	32x32	4	32



Press wall elbow

Code	Size	Pack	Carton
31610	16x1/2	20	160
31614	20x1/2	14	112
31618	25x3/4	10	80
31622	32x1	6	48



Press female plate elbow

Code	Size	Pack	Carton
30910	16x1/2	12	96
30914	20x1/2	10	80



Press converter tee

Code	Size	Pack	Carton
30710	16x16x16	16	128
30712	20x20x20	10	80
30714	25x25x25	4	32
30716	32x32x32	3	24



Compression female straight

Code	Size	Pack	Carton
60108	16x1/2	36	144
60110	20x1/2	30	120
60112	20x3/4	24	96
60114	25x3/4	16	64
60118	32x1	8	32



Compression straight fitting

Code	Size	Pack	Carton
70110	16x16	28	112
70112	20x20	20	80
70114	25x25	10	40
70116	32x32	6	24



Compression reducing straight fitting

Code	Size	Pack	Carton
70210	20x16	20	80
70212	25x16	10	40
70214	25x20	10	40
70218	32x25	6	24



Compression elbow 90°

Code	Size	Pack	Carton
70410	16x16	22	88
70412	20x20	14	56
70414	25x25	8	32
70416	32x32	4	16

5-layer pipes & fittings



Compression ball valve (B)

Code	Size	Pack	Carton
45122	16x1/2	12	48



Compression ball valve (A)

Code	Size	Pack	Carton
45022	16x1/2	12	48
45024	20x1/2	12	48
45026	20x3/4	10	40
45044	25x3/4	8	32
45046	25x1	6	24



Compression female wall elbow

Code	Size	Pack	Carton
71610	16x1/2	15	60
71614	20x1/2	10	40
71618	25x3/4	10	40



Compression female elbow

Code	Size	Pack	Carton
70610	16x1/2	20	80
70612	20x1/2	16	64
70618	25x3/4	8	32
70620	25x1	8	32
70622	32x1	5	20



Ball valve with steel level handle

Code	Size	Pack	Carton
45818	1/2	10	40



Luxury with Percy Modular Nut

Code	Size	Pack	Carton
45102	16x1/2	10	40
45104	20x1/2	10	40



Compression elbow ball valve

Code	Size	Pack	Carton
45453	25x3/4	6	24
45454	25x1	6	24
45456	32x1	4	16



Compression ball valve

Code	Size	Pack	Carton
45132	16x16	12	48
45134	20x20	10	40
45136	25x25	6	24



Compression female tee 180°

Code	Size	Pack	Carton
70860	16x1/2x16	14	56
70862	20x1/2x20	12	48



Compression wall tee 180°

Code	Size	Pack	Carton
71710	16x1/2x16	14	56
71714	20x1/2x20	8	32



Compression female wall plate elbow

Code	Size	Pack	Carton
70910	16x1/2	12	48
70914	20x1/2	12	48



Compression male elbow 90°

Code	Size	Pack	Carton
70510	16x1/2	20	80
70512	20x1/2	16	64
70518	25x3/4	10	40
70520	25x1	8	32
70522	32x1	6	24



Threaded male-female reducing bushing

Code	Size	Pack	Carton
20406	male1/2x female3/4	30	120
20408	male3/4x female1/2	60	240
20410	male3/4x female1	20	80
20412	male11/2x female1	36	144
20450	male3/4x female1	33	132
20452	male11/4x female1	20	80
20454	male11/4x female3/4	20	80
20456	male11/2x female1	16	64
20458	male11/2x female11/4	16	64
20460	male2x female1	8	32
20462	male2x female11/4	8	32
20464	male2x female11/2	7	28



Threaded male reducing bushing

Code	Size	Pack	Carton
20210	1/2x3/4	30	120
20212	1x3/4	20	80



Threaded male female bushing

Code	Size	Pack	Carton
20310	1/2	40	160
20312	3/4	20	80
20314	1	10	40



Pipe nipple

Code	Size	Pack	Carton
20110	1/2	60	240
20112	3/4	36	144
20114	1	16	64
20116	1 1/4	12	48



Compression wall tee 90°

Code	Size	Pack	Carton
71510	16x1/2x16	8	32
71514	20x1/2x20	8	32



Compression reducing tee

Code	Size	Pack	Carton
70742	20x16x16	10	40
70744	20x16x20	10	40
70750	25x16x25	4	16
70754	25x20x25	4	16



Compression tee

Code	Size	Pack	Carton
70710	16x16x16	15	60
70712	20x20x20	10	40
70714	25x25x25	4	16
70716	32x32x32	3	12



Compression female wall plate tee

Code	Size	Pack	Carton
71310	16x1/2x16	10	40
71314	20x1/2x20	8	32



Air vent

Code	Size	Pack	Carton
22610	3/8	100	400
22612	1/8	100	400



Air vent screw

Code	Size	Pack	Carton
22608	3/4	45	180
22606	1	40	160
22607	1 1/4	22	88
22610	1 1/2	6	48



Air vent hole

Code	Size	Pack	Carton
22601	3/4	55	220
22600	1	50	200
22602	1 1/4	24	96
22604	1 1/2	16	64



Collector cover cap

Code	Size	Pack	Carton
22591	3/4	55	220
22592	1	50	200
22594	1 1/4	24	96
22595	1 1/2	16	64



Collector base

Code	Size	Pack	Carton
25050	-	-	100



Collector base and climp

Code	Size	Pack	Carton
25056	3/4- 1 1/2	-	-



integrated manifold with valves

Code	Size	Pack	Carton
14224	(1x16) 4b	-	4
14225	(1x16) 5b	-	2
14226	(1x16) 6b	-	2
14227	(1x16) 7b	-	2
14228	(1x16) 8b	-	2



New collector with threaded adjustment valve

Carton	Pack	Size	Code
4	-	(1x1/2) 4b	14324
2	-	(1x1/2) 5b	14325
2	-	(1x1/2) 6b	14326
2	-	(1x1/2) 7b	14327
2	-	(1x1/2) 8b	14328



collector 1"

Code	Size	Pack	Carton
22522	(1x1/2) 2b	5	-
22523	(1x1/2) 3b	5	-
22524	(1x1/2) 4b	5	-
22525	(1x1/2) 5b	5	-
22526	(1x1/2) 6b	5	-
22527	(1x1/2) 7b	5	-
22528	(1x1/2) 8b	5	-
22529	(1x1/2) 9b	5	-
22530	(1x1/2) 10b	5	-
22531	(1x1/2) 11b	5	-
22532	(1x1/2) 12b	5	-
22532-1	(1x3/4) 2b	5	-
22533	(1x3/4) 3b	5	-
22534	(1x3/4) 4b	5	-
22535	(1x3/4) 5b	5	-
22536	(1x3/4) 6b	5	-
22537	(1x3/4) 7b	5	-



collector 1 1/4"

Code	Size	Pack	Carton
22542	(1 1/4x1/2) 2b	4	-
22543	(1 1/4x1/2) 3b	4	-
22544	(1 1/4x1/2) 4b	4	-
22545	(1 1/4x1/2) 5b	4	-
22546	(1 1/4x1/2) 6b	4	-
22547	(1 1/4x1/2) 7b	4	-
22548	(1 1/4x1/2) 8b	4	-
22549	(1 1/4x1/2) 9b	4	-
22550	(1 1/4x1/2) 10b	4	-
22551	(1 1/4x1/2) 11b	4	-
22552	(1 1/4x1/2) 12b	4	-
22553	(1 1/4x3/4) 3b	4	-
22554	(1 1/4x3/4) 4b	4	-
22555	(1 1/4x3/4) 5b	4	-
22556	(1 1/4x3/4) 6b	4	-
22557	(1 1/4x3/4) 7b	4	-
22558	(1 1/4x3/4) 8b	4	-



collector 1 1/2"

Code	Size	Pack	Carton
22563	(1 1/2x1/2) 3b	3	-
22564	(1 1/2x1/2) 4b	3	-
22565	(1 1/2x1/2) 5b	3	-
22566	(1 1/2x1/2) 6b	3	-
22567	(1 1/2x1/2) 7b	3	-
22568	(1 1/2x1/2) 8b	3	-
22569	(1 1/2x1/2) 9b	3	-
22570	(1 1/2x1/2) 10b	3	-
22571	(1 1/2x1/2) 11b	3	-
22572	(1 1/2x1/2) 12b	3	-
22573	(1 1/2x3/4) 3b	3	-
22574	(1 1/2x3/4) 4b	3	-
22575	(1 1/2x3/4) 5b	3	-
22576	(1 1/2x3/4) 6b	3	-
22577	(1 1/2x3/4) 7b	3	-
22578	(1 1/2x3/4) 8b	3	-
22579	(1 1/2x3/4) 9b	3	-
22580	(1 1/2x3/4) 10b	3	-
22581	(1 1/2x3/4) 11b	3	-
22582	(1 1/2x3/4) 12b	3	-



collector 2"

Code	Size	Pack	Carton
23523	(2x3/4) 3b	2	-
23524	(2x3/4) 4b	2	-
23525	(2x3/4) 5b	2	-



collector 3/4"

Code	Size	Pack	Carton
22512	(3/4x1/2) 2b	5	-
22513	(3/4x1/2) 3b	5	-
22514	(3/4x1/2) 4b	5	-
22515	(3/4x1/2) 5b	5	-



Brass collector

Code	Size	Pack	Carton
25111	3/4	80	-
25113	1	80	-
25115	1 1/4	30	-



Collector box

Code	Size	Pack	Carton
25010	45x45	-	1
25012	45x65	-	1
25022	45x75	-	1
25016	45x85	-	1
25014	45x95	-	1



Fitting bracket wall

Code	Size	Pack	Carton
22310	single 63	25	-
22410	pair 153	25	-
22411	pair 280	25	-
22451	Arch 280	25	-
22412	radiator 500	25	-
22452	Under the package	25	-



Pipe staple

Code	Size	Pack	Carton
22160	16	-	2000



Single pipe clip

Code	Size	Pack	Carton
22110	16	-	750
22112	20	-	800
22114	25	-	550
22116	32	-	300



Double open pipe clip

Code	Size	Pack	Carton
22150	16	-	300
22152	20	-	300
22154	25	-	200



short plastic plug

Code	Size	Pack	Carton
22250	20	-	700
22252	25	-	450
22254	32	-	350



Bleed reducing elbow

Code	Size	Pack	Carton
20616	male 1 X female 1/2	14	56



Reducing elbow

Code	Size	Pack	Carton
20610	1/2	22	88
20612	3/4	14	56
20614	1	8	32



Threaded male tee

Carton	Pack	Size	Code
120	30	1/2	20510
60	15	3/4	20512



Threaded female tee

Carton	Pack	Size	Code
48	12	1/2	20730



Shieldl adjustment tool 16.20.25

Code	Size	Pack	Carton
12750	16.20.25	-	-



Sheet insulation

Code	Size	Pack	Carton
33122	10 mm	50	-
33126	20 mm	25	-
33128	25 mm	25	-
33130	32 mm	25	-



foam Pipe

Code	Size	Pack	Carton
50100	16	150	-
50101	20	100	-
20102	25	100	-
50103	32	100	-



Plastic plug

Code	Size	Pack	Carton
22210	Blue 20	-	130
22212	Red 20	-	130
22214	Blue 25	-	90
22216	Red 25	-	90
22218	Blue 32	-	60
22220	Red 32	-	60



Steel ring

Code	Size	Pack	Carton
50110	16	100	800
50112	20	80	640
50114	25	30	240
50116	32	24	192



Coupling fitting ring

Code	Size	Pack	Carton
601083	16	100	-
601103	20	100	-
601143	25	50	-
601183	32	50	-



Coupling fitting Nut

Code	Size	Pack	Carton
601081	16	100	-
601101	20	50	-
601141	25	40	-
601181	32	30	-



5 - Layer pipe press (hydraulic straight jaw)

Code	Size	Pack	Carton
13120	-	-	-



5 - Layer pipe handle press

Code	Size	Pack	Carton
13118	-	-	-



Pipe beneler - outside

Code	Size	Pack	Carton
12912	16	-	-
12914	20	-	-
12916	25	-	-
12918	32	-	-



Pipe bender-inside

Code	Size	Pack	Carton
12913	16	-	-
12915	20	-	-
12917	25	-	-
12919	32	-	-



5 - Layer pipe charging press

Code	Size	Pack	Carton
13119	-	-	-



Oring

Code	Size	Pack	Carton
50210	16	100	-
50212	20	100	-
50214	25	100	-
50216	32	50	-

bistabaspar
polyethylene tanks

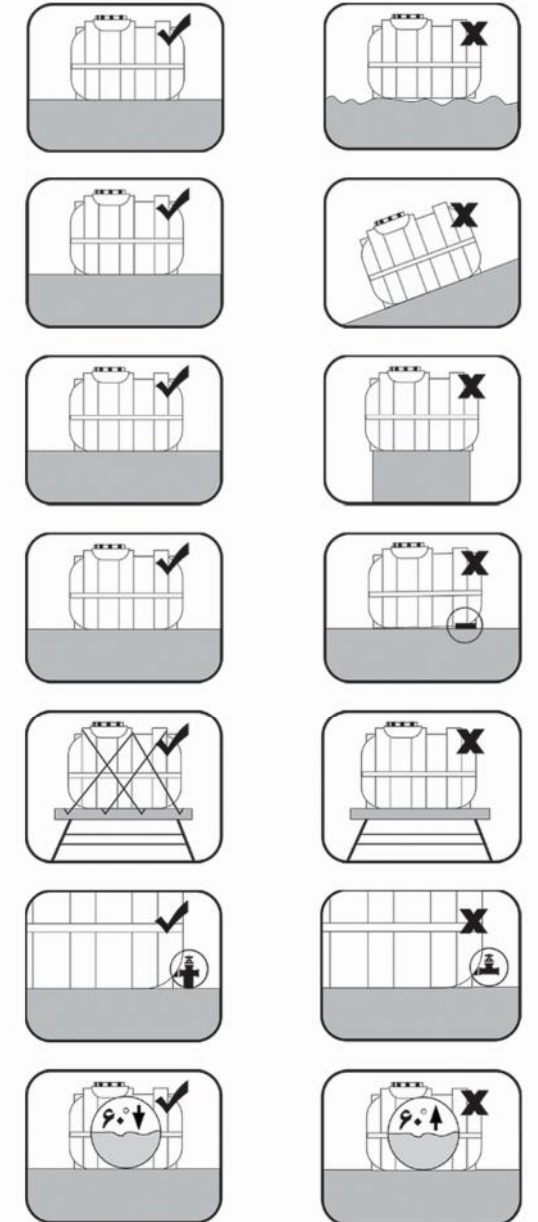


Important points when transporting Bist Baspar tanks

- 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.
- Avoid leveling the tanks with rocks, tiles, or any other hard object.
- 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 the tanks are filled with the municipal water distribution network, use a mechanical floater on the water inlet and make sure of its correct operation by visiting it periodically.



Polyethylene tanks



Horizontal Tanks

Code	Capacity	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

Code	Capacity	Length	Height	Diameter
81200	100 liter	72	75	50
81204	200 liter	88	90	60
82208	500 liter tall	162	175	66
82212	800 liter tall	150	160	90
81214	1000 liter short	117	135	115



Under-Stairs Tanks

Code	Capacity	Length	Width	Height
83210	750 liter	153	77	86
84210	750 liter extruded	153	77	86



Brass Fitting

Code	Size
89900	1/2"
89902	3/4"
89904	1"

CERTIFICATE

