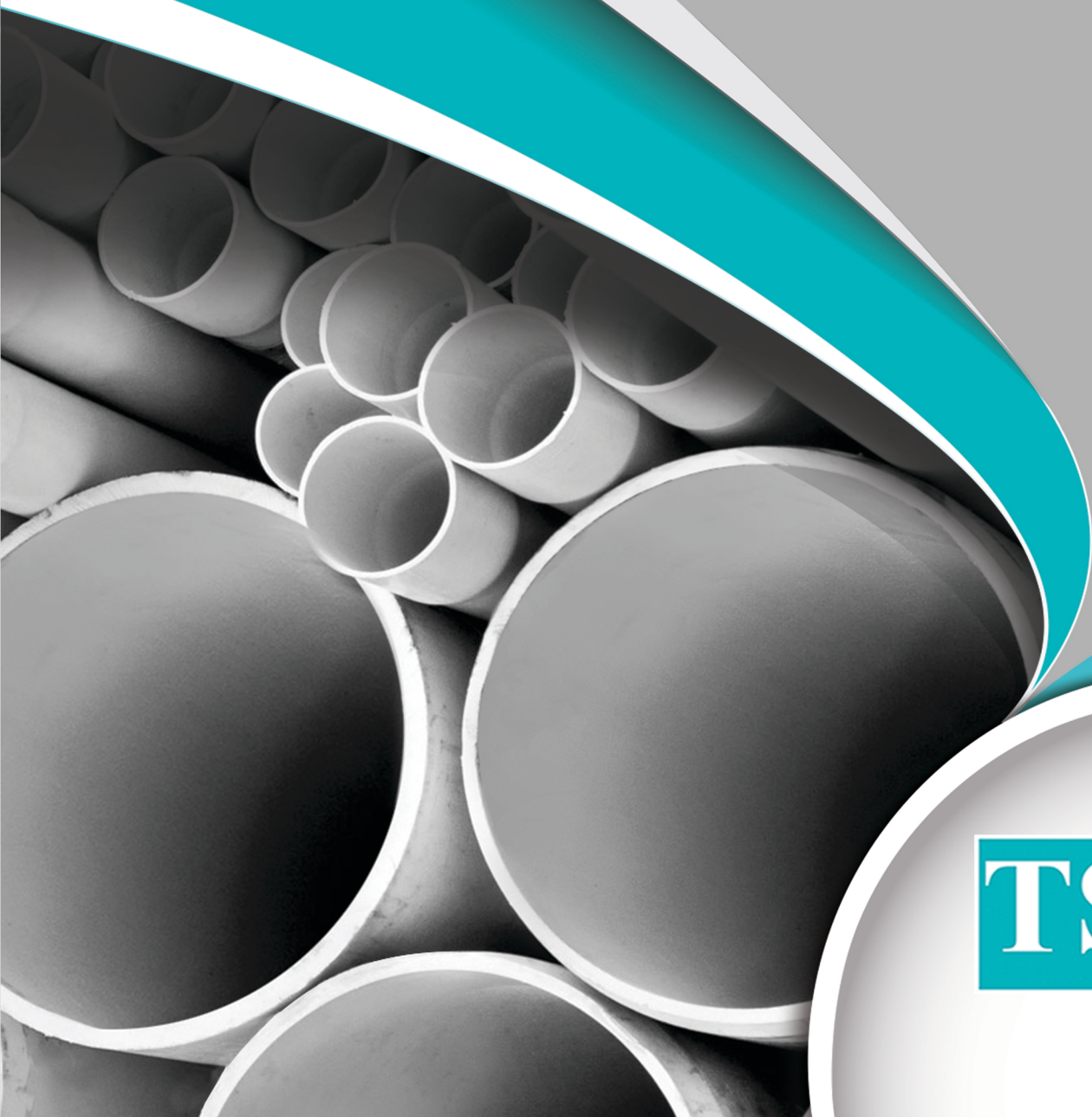


# **Tak Setareh Golpayegan Co.**



**TSG**

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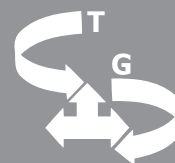
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## Message from head manager

Golpayegan's Tak Setareh Industrial Group has been able to ensure the satisfaction of its customers in a competitive environment by placing the three principles of quality, innovation and customer orientation at the top of the list. Now, after more than a decade of the company's activity, thanks to God and the efforts of its experts and staff, it has been able to continue the process of improving the quality of its products and complete the consumers' basket in accordance with the needs of customers and modern science and the latest relevant standards.



# Tak Setareh Golpayegan Co.



Tak Setareh Golpaygan





## The History of Golpayegan's Tak Setareh Industrial Group

Golpayegan's Tak Setareh Production Company (Private Equity) was founded in 2003 by Akhavan Talari with the mark Abbreviation TG. The company's initial products were registered as Golpayegan's Tak Setareh brand and as the manufacturer of PVC and polyethylene pipes and fittings.

Golpayegan's Negin Setareh Company started its activity in 2010 with the production of polyethylene fittings and in 2014 with the aim of developing products in the field of polyethylene fittings by changing the line to threaded, polyethylene and PVC fittings, it continued its activity with NP brand.

Golpayegan's Alborz Setareh Company was established in 2013 with the aim of marketing, selling and completing the consumer goods basket. In 2014, with the distribution of single-layer products (P.P), five-layers, Push Fit P.P Sewage, various types of hoses and nylon under the brand name of Nivan Pipe officially started operating.

The company has grown continuously by employing the talent of capable forces, modern technical knowledge, continuous business development and upgrading production lines and facilities, and by expanding its products in the field of pipes and fittings, has been able to complete the consumer basket of products and offer a variety of products separately to its customers.

Now, Golpayegan's Tak Setareh factory with an area of more than 60,000 square meters, located in Golpayegan industrial town is known as one of the largest manufacturers in the field of pipes and fittings.

The managers of Golpayegan's Tak Setareh Company, relying on team effort and work, emphasizing organizational commitments and observing values, have put the following items on their work agenda:

- Increasing product quality through effective controls in accordance with relevant standards
- Continuous improvement of process performance and implementation of updated management systems
- Increasing market share and supply of products in domestic and foreign markets
- Continuous training of staff to keep their information up to date and fully aware of the goals of the organization
- Increasing the level of welfare of employees
- Commitment to be accountable to all stakeholders of the company such as (shareholders, representatives,) ...
- Reducing and preventing occupational diseases and work-related accidents
- Compliance with legal requirements related to environmental aspects and occupational safety and health risks
- Customer-centric with the aim of improving customer satisfaction



## Quality control and testing unit

The quality control unit of Golpayegan's Tak Setareh Company evaluates and tests all products in all stages of production by using experienced experts. The results are recorded in the system laboratory after several sampling and are notified to the quality control unit.

The quality control process in the company is based on the national standard of Iran (ISIRI). At all stages of production, products are quality controlled.

Receiving and analyzing the results of experiments performed to monitor the implementation of calibration, measuring equipment, designing product quality control checklists, controlling and monitoring how to store and control the layout and duration of storage of pipes and fittings in the warehouse are the tasks of the quality control unit.

In the company's laboratory, to ensure the quality of the products, the following tests are performed on the products:

- Quality control test and material formulation
- Quality control test during production
- Post-production quality control test (in the packaging stage)
- Product control by QC unit in three shifts
- Permanent testing and control of products such as Dichloromethane testing, vicat, strike, dimensions, heat, pressure and ...
- Melt flow index (INSO 6980-1)
- Determine the density (INSO 7090-1)
- Determination of carbon percentage (ISO 6964)
- Tensile test (INSO 17140-3)
- Hydrostatic pressure test (ISiRi 12181-1)
- Heat Return Test (INSO 17614)
- Measurement of dimensions and appearance of pipes (INSO 2412)
- OIT test Oxidation induction time (ISiRi 7186-6)
- Soot distribution test (ISO 18553)
- ESCR test (Environmental Stress Cracking Resistance)
- Product control by QC unit in all three shifts





## Research and Development Unit

Research and development units in factories are the core of research activities in the industrial sector. The concept of research and development is to discover new knowledge about products, processes, services and apply knowledge to create new and developed products, processes and services that meet the needs of the market. Golpayegan's Tak Setareh Research and Development Unit has started its activities since 1993 and this unit tries to launch new products or review existing products based on the existential goal and in line with the company's strategic planning by dealing with continuous research and development in line with market needs and anticipating future needs.

The activities of the research and development unit are prioritized based on the following:

- Developing and implementing strategic and operational plans
- Summarizing and exploiting scientific resources to apply the latest scientific methods in the process
- Examining the latest industrial achievements in the world and adapting the scientific and experimental findings
- Implementing functional programs
- Trying to identify the issues and problems of the production process and solving them to reassure customers
- Innovation in the manufacture of molds and parts
- Efforts to improve the quality of products
- Holding training classes for representatives and staff
- Creating an information terminal
- Creating and expanding a website to create a database and information
- Efforts to increase the level of knowledge, skills and productivity of the company's employees

# R&D





### Laboratory unit

Setareh industrial group (Tak Setareh, Negin Setareh and Alborz Setareh) at the same time with the operation and start of production, equipped its laboratory, which according to the available equipment was able to meet the standard criteria and by performing tests in national standards successfully obtained standard certifications for its products. Using specialized and experienced personnel, the company's laboratory succeeded in achieving its next goal of obtaining the ISO 17025 certification.

Has standards:

- 9119 For Product: Hard PVC-U Polyvinyl Chloride Pipes and Fittings Used in Sewer Drain buildings
- 9118 For Product: Hard Polyvinyl Chloride (PVC-U) Pipe Used in Groundwater Drainage without pressure
- 13361 For the product: Hard polyvinyl pipe (PVC-U) for water supply, sewerage and drainage applications under pressure buried in the soil and above ground level
- Has a technical certificate of construction from the Ministry of Roads and Urban Development
- It has ISO-AIC 17025
- 11105: pvc pipe for passing power and telecommunication cable
- 7607: for polyethylene diameter pipes
- 14427-2: For heavy polyethylene pipes Pe 100, Pe 80
- 14427-3: for welded polyethylene fittings
- 6314: For single - layer polypropylene (PPRC) pipes
- 12753: for five-layer PERT-AL-PERT pipes
- 21264: for mechanical polyethylene fittings
- With water and soil approval from the Ministry of Jihad Agriculture
- ISO 9001: 2008, ISO 14001: 2004, OHSAS 18001: 2007 certification
- Equipped with metric system of all lines
- Equipped with ultrasonic system of all lines
- Supply of pipes in the form of coils or branches
- Ability to coil pipes in different sizes
- Standard 11215 PVC pipe for power cable
- Standard 12142-1 PVC pipes for studs



### Melt flow index

In this test, the fluidity of the material is measured at a constant temperature, pressure and time. The results show how the material behaves inside the extruder. This test is performed on raw materials and products according to ISO1133 standard and Iranian national standard INSO 6980-1 and the results are evaluated according to the table below.

The difference of more than 25% of the melt flow index of raw materials and products requires readjustments in the production process.



Type of polyethylene	Temperature C°	weight kg	Density MFI g/10min g/cm <sup>3</sup>
MFI<1	2/16	190	LDPE
MFI<0/7	5	190	HDPE

### Determination of density



This test is performed on each batch of raw materials or manufactured product according to INSO 7090-1 standard and its results are evaluated according to the table below.

Density number generally represents the type of polymer and in similar conditions (in a special polyethylene) with increasing density, tensile strength, elasticity, resistance to solvents and chemicals and permeability to gases increase. This number in the product represents the quality of the production process and its optimal conditions and their effect on the molecular structure of polyethylene.

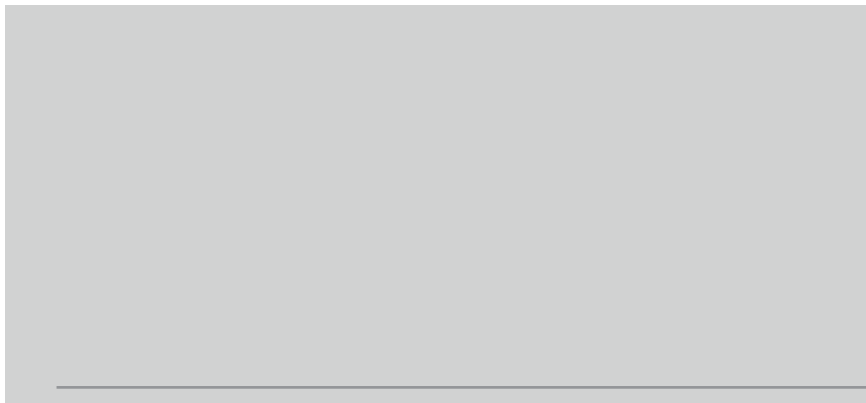
Type of polyethylene	Density g/cm <sup>3</sup>
LDPE	0/910-0/925
HDPE	0/941-0/965



### Determination of carbon percentage (soot)\ ISO 6964 standard

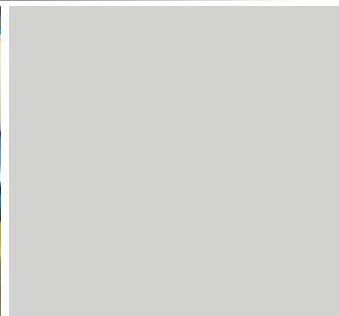
Due to ensuring the resistance of these products to the sun's destructive radiation, this test is performed according to ASTM 1009 and ISIRI 7175-2bar standards on raw materials and products, and the percentage of soot obtained should be between 2% and 5.2%. This test uses an electric oven at 600 and 900 degrees Celsius.

This test is especially important for LDPE pipes that are placed on the ground



### Dimension measurement and appearance checking of pipes / INSO 2412 Standard

Polyethylene pipes should have a smooth surface and no grooves with sharp edges. Minor inhomogeneity and shallow depressions can be ignored if the minimum thickness is not less than the standard value. To determine the thickness, the caliper is used with an accuracy of 0.02 mm and the outer diameter of the circometer.



**Tak Setareh Golpayegan Co.**



### Tensile test (ISO 6259-1 & INSO 17140-3) standard

With the use of specialized laboratory equipment, mechanical properties of polyethylene pipes can be measured including maximum strength in the case of external loads, the rate of change in the length of the test point, and determination of elasticity coefficient. Based on the results of the above test, it is possible to examine how the product performed in the operating conditions.



### Determination of soot distribution / ISO 18553 standard

If the intended soot is not evenly distributed in raw materials and products, it will cause its vulnerability in low accumulation points, and even if the percentage of soot is in the allowable range of 2% to 5.2%, it will still have a destructive effect of UV rays.

Therefore, Golpayegan's Tak and Negin Setareh Company, with its advanced equipment for accurate distribution of soot and determination of its particle size according to BS2782 and ISO18553 standards, measures the distribution factor to ensure its resistance to solar UV rays. The non-uniform distribution of the above factors depends on the type of raw materials and production process conditions.



### Hydrostatic pressure test / ISIRI 12181 standard

The purpose of this test is to measure the resistance of thermoplastic pipes to constant internal pressure at a given temperature. One of the important properties of raw materials is the tensile

properties that determine the amount of hydrostatic pressure inside the pipe. The most important tensile properties of materials are their modulus and tensile strength.

In semi-crystalline polymers, the higher the crystallinity, the higher the modulus or hardness of the polymer. This test is one of the longest tests that somehow measures the length of the pipe's life in a shorter time than its normal life.



### Thermal return test / INSO 17614 standard



The amount of change in the length of the polyethylene pipe, after enduring a cold heat cycle, is such that the final length of the pipe will be less than the initial state. This reduction in length should not be more than PVC 5%, PE 3%.

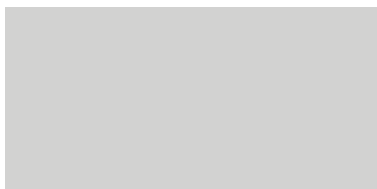
### Oxidation Induction Time Test (OIT) / ISIRI 7186-6 Standard

This test is performed on the raw materials and the produced products. A certain amount of the sample is poured into a container called a pan and first the sample is heated to 200 ° C with a certain amount of heated nitrogen, the nitrogen is cut off at once and oxygen is entered. Finally, the sample should not be oxidized for less than 20 minutes in water supply pipes, 50 minutes in gas supply pipes and 15 minutes in LDPE pipes, and the result of this test determines the quality of raw materials and production process.



### Environmental Stress Cracking Resistance (ESCR)

It is a test in which the environmental effects on LDPE polyethylene pipes, including chemical agents such as acid rain, chemical fertilizers, detergents, oils and mechanical factors such



as the elevation of the farmland and the bends created on the pipe, are examined and the life of the pipe is guaranteed. The importance of this test is due to the many effects that raw materials and effective parameters in the production of pipes have on the property of the ESCR. Improper formulation of raw materials, failure to adjust the extruder temperature and cooling system, and finally the final temperature of the product before locking, determine the product's resistance to environmental conditions.

#### Dichloromethane test / ISIRI 10609 standard

Cut the tube to a length of 16 cm and place it in dichloromethane liquid at a specific temperature of 15 ° C for 30 minutes, during this time the tube should not be corroded.



#### Test to determine impact resistance by weight loss\ISIRI 11431 Standard

Pipes should be tested at zero temperature and not broken during testing (according to the table). Tests should be cut from pipes randomly selected from a consignment or from an extruder setup. The length of each test should be  $200 \pm 10$  mm. The two cut ends must be perpendicular to the axis of the pipe, repaired and free of damage. For pipes with an outer diameter greater than 40 mm, draw the number of longitudinal lines at equal distances on the perimeter of the pipe.

Impact Mass per Kilogram			
Impact Mass ( $\pm 0.005$ kg) or $\pm 5$ kg			
Type d90			Type d25
10.0	3.2	1.0	0.25
12.5	4.0	1.25	0,5
16.0	5.0	1.6	0.8
	6.3	0.2	
	8.0	2.5	



## Vicat Test / standard 2414



The Vicat test is to measure the soft temperature of PVC and is sampled from pipes and fittings. The basis of the test method is to determine the temperature at which the standard submersible temperature can be submerged in the test pipe by a force of  $50 \pm 1$  Newton by one millimeter, while the temperature rises at a constant rate. The temperature that causes the plunger to sink one millimeter into the test is called the Vicat Soft Temperature (VST) is expressed in degrees Celsius.

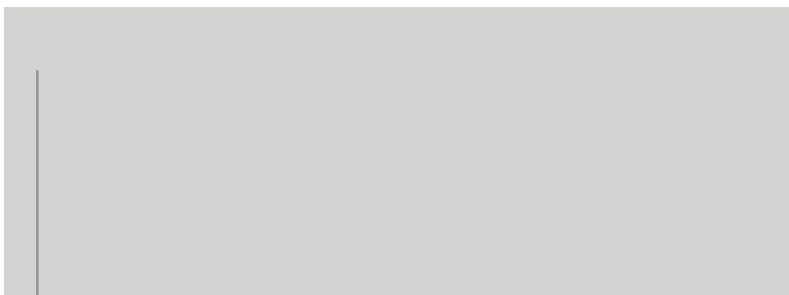
### A: Inspection and testing of raw materials

All purchased raw materials, in addition to the control of passports issued by the seller, are sampled by laboratory experts and chemical analysis tests and determination of density and melt flow index of MFI are performed on it.



### B: Inspection and testing during the production process

During the production process, the production line is randomly sampled by QC inspectors and the samples are tested and visually and dimensionally controlled.







## C: Inspection and testing of final products

These tests are performed on the produced parts including measurement of the dimensions of the pipe and fittings, pipe weight, impact test, thermal return test, burst test, and so on.



## How to issue an insurance policy

According to this warranty, Iran Insurance Company certifies and confirms the financial damages incurred to the customer by the contracting party with Alborz Setareh Company, which are installed and conditional due to defective and undesirable operation of pipes and fittings produced in the said company from the date of successful completion (correct operation). That the installation operation has been done during the validity period of the insurance contract and to compensate for all the provisions and conditions of the insurance contract up to the limit of the described obligations for ten years.



## Sales

The consultants of the company in the sales unit, by providing appropriate consulting services, help the esteemed customers to realize an informed and satisfactory purchase. The basis of this work is customer orientation and honest interaction with the customer. The company tries to take steps to meet the needs of customers with the efforts of its staff and to meet all customer requests by considering their suggestions.

This unit introduces the company's products to customers and sends products to its customers by receiving sales orders.



## Molding Unit

Due to the fact that the production of each plastic part requires a mold and in order to support the production, repair, replacement and updating of the company's products and also to prevent the outflow of currency and self-sufficiency, having a modern and well-equipped molding unit is very necessary. In this regard, in 2005, the company established a mold making unit.

Relying on experienced personnel as well as combining CAD / CAM up-to-date engineering knowledge and experience from the past and using cutting and milling machines, CNC Spark, 5-axis wire cut, magnetic stone with a micron accuracy and CMM quality control devices, this unit will be able to produce a variety of plastic templates with high accuracy in the shortest possible time.

That is why the company is able to mass-produce customers' orders as quickly as possible.





### PVC specifications

PVC used to produce pipes and fittings is U-PVC, which is produced by suspension polymerization. The term U-PVC means hardened polyvinyl chloride (Unplasticized PVC). Polyvinyl chloride or PVC is one of the most popular polymers used in modern industry today. Physical and mechanical properties of its products, such as light weight, strength and high friction to weight percentage, non-toxicity, thermal and electrical insufficiency, less friction loss compared to metals, inertia and self-extinguishing properties, corrosion resistance and the ability to mix it with various additives cause variety in products and using PVC has become one of the most widely used plastics in the world.



### Advantages and characteristics of U-PVC pipes and fittings

- High useful life; No vulnerability and decay at appropriate temperature and pressure after 60 years, maximum economic efficiency.
- Lightness and low weight; Reduction of loading, unloading and transportation costs.
- Low installation or repair costs; No need for special equipment, just use glue.
- No corrosion; Resistant to corrosive substances, solvents, chemicals, acids, decay and rust.
- The inner surface is very smooth and polished, resulting in a smooth movement of fluids inside the pipe or fittings.

- Resistant to earthquakes and external pressures
- Resistant to rats and other rodents.
- No algae and bacteria in the path inside the pipe if installed correctly.
- No environmental pollution and no change in color, taste and smell of water.
- Has a high coefficient of longitudinal expansion.
- Very suitable for wet and sedentary areas as well as earthquake-prone areas.
- High quality, durable and always covered by Iranian national standards.
- High production capacity with a great variety of products

### Production Process

U-PVC pipes are produced by Extrusion, which can change the diameter of pipes with different diameters and thicknesses by changing the dimensions of Die. Other components of PVC pipe production line include: cooling stabilization unit, traction unit, cutting unit and coupling unit.



### Silent Products

In order to control the sound inside the sewerage systems for the comfort of the residents, the silent connection system has been produced and supplied with a unique design along with reinforcement belts. These products can be used to control the sound of fluids passing through gutters and construction sewage systems. Minimizing fractures and causing any damage to the connection body is considered. In addition, the increase in mechanical strength can be mentioned.



### Uses of Golpayegan's Tak Setareh products

- Urban water supply system
- Building water supply system
- Pressure irrigation system
- Water supply system used in wells
- Well wall pipes
- Urban, domestic, industrial sewage system
- Building ventilation system
- Rainwater drainage system (studs)
- Passage of telecommunication cables, electricity



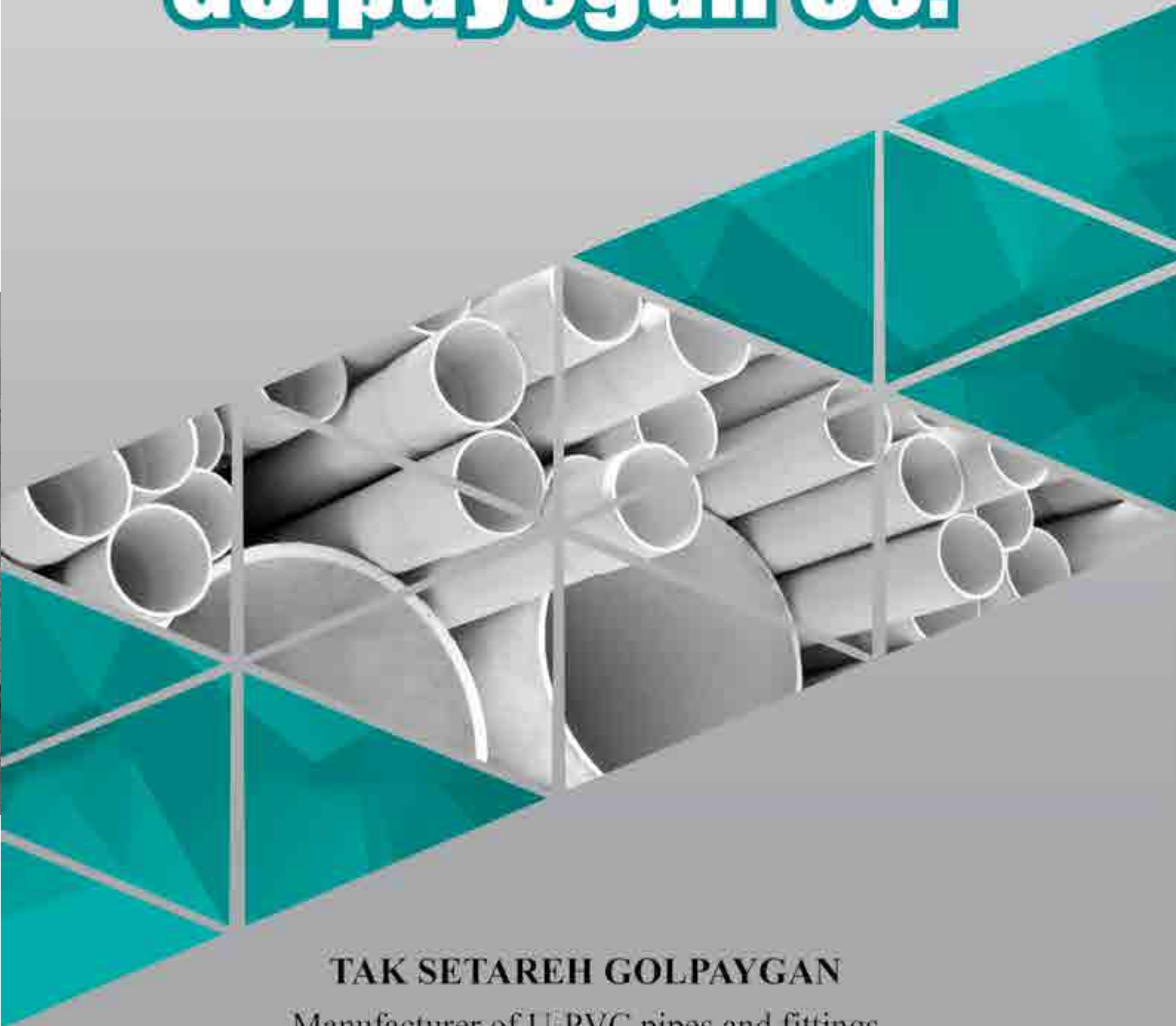
**Tak Setareh Golpayegan Co.**



# Tak Setareh Golpayegan Co.



Tak Setareh Golpayegan  
COMPANY



**TAK SETAREH GOLPAYGAN**

Manufacturer of U-PVC pipes and fittings



# **PVC Products**

## **Solvent Cement Pipes**

**Pressure pipes**

**Sewer pipes and fittings**

**Stud pipes on the work**

**Pipe for passing electrical and telecommunication cables**



Solvent pipes used for pressurized irrigation			EN, ISIRI 13361,1452
Pressure	Thickness	Outer diameter	Barcode
16	1.5	20	11094005
20	1.9	20	11094006
25	2.3	20	11094007
12.5	1.5	25	11094009
16	1.9	25	11094010
20	2.3	25	11094011
10	1.9	32	11094014
12.5	2.4	32	11094015
16	3	32	11094016
20	3.7	32	11094017
10	1.9	40	11094021
12.5	2.4	40	11094022
16	3	40	11094023
20	3.7	40	11094024
10	2.4	50	11094029
12.5	3	50	11094030
16	3.7	50	11094031
20	4.6	50	11094032
6	2	63	11094036
8	2.5	63	11094037
10	3	63	11094038
12.5	3.8	63	11094039
16	4.7	63	11094040
20	5.8	63	11094041
6	2.3	75	11094045
8	2.9	75	11094046
10	3.6	75	11094047
12.5	4.5	75	11094048
16	5.6	75	11094049
20	6.8	75	11094050
6	2.8	90	11094054
8	3.5	90	11094055
10	4.3	90	11094056
12.5	5.4	90	11094057
16	6.7	90	11094058
20	8.2	90	11094059
6	2.7	110	11094063
8	3.4	110	11094064
10	4.2	110	11094065
12.5	5.3	110	11094066
16	6.6	110	11094067



Solvent pipes used for pressurized irrigation			EN, ISIRI 13361,1452
Pressure	Thickness	Outer diameter	Barcode
20	8.1	110	11094068
25	10.1	110	11094069
6	3.1	125	11094072
8	3.9	125	11094073
10	4.8	125	11094074
12.5	6	125	11094075
16	7.4	125	11094076
20	9.2	125	11094077
25	11.4	125	11094078
6	3.6	140	11094081
8	4.3	140	11094082
10	5.4	140	11094083
12.5	6.7	140	11094084
16	8.3	140	11094085
20	10.3	140	11094086
25	12.7	140	11094087
6	4	160	11094091
8	4.9	160	11094092
10	6.2	160	11094093
12.5	7.7	160	11094094
16	9.5	160	11094095
20	11.8	160	11094096
25	14.6	160	11094097
6	4.9	200	11094111
8	6.2	200	11094112
10	7.7	200	11094113
12.5	9.6	200	11094114
16	11.9	200	11094115
20	14.7	200	11094116
25	18.2	200	11094117
6	6.2	250	11094131
8	7.7	250	11094132
10	9.6	250	11094133
12.5	11.9	250	11094134
16	14.8	250	11094135
20	18.4	250	11094136
6	7.7	315	11094151
8	9.7	315	11094152
10	12.1	315	11094153
12.5	15	315	11094154
16	18.7	315	11094155
20	23.2	315	11094156



Solvent pipes used in construction wastewater discharge			EN, ISIRI 9119, 1329
Scope of application	Thickness	Outer diameter	Barcode
B	3	32	11095178
B	3	40	11095179
B	3	50	11095180
B	3	63	11095181
BD	3	75	11095182
BD	3	90	11095183
BD	3.2	110	11095184
BD	3.2	125	11095185
BD	3.5	140	11095186
B	3.2	160	11095187
BD	4	160	11095188
BD	4.9	200	11095189
B	4.9	250	11095190
BD	6.2	250	11095191
B	6.2	315	11095192
BD	7,7	315	11095193

Solvent pipes used in underground sewage discharge without construction pressure			EN, ISIRI 9118, 1401
Scope of application	Thickness	Outer Diameter	Barcode
4	3.2	110	11095194
8	3.2	110	11095195
4	3.2	125	11095196
8	3.7	125	11095197
2	3.2	160	11095198
4	4	160	11095199
8	4.7	160	11095200
4	4.9	200	11095201
8	5.9	200	11095202
2	4.9	250	11095203
4	6.2	250	11095204
8	7.3	250	11095205
2	6.2	315	11095206
4	7.7	315	11095207
8	9.2	315	11095208

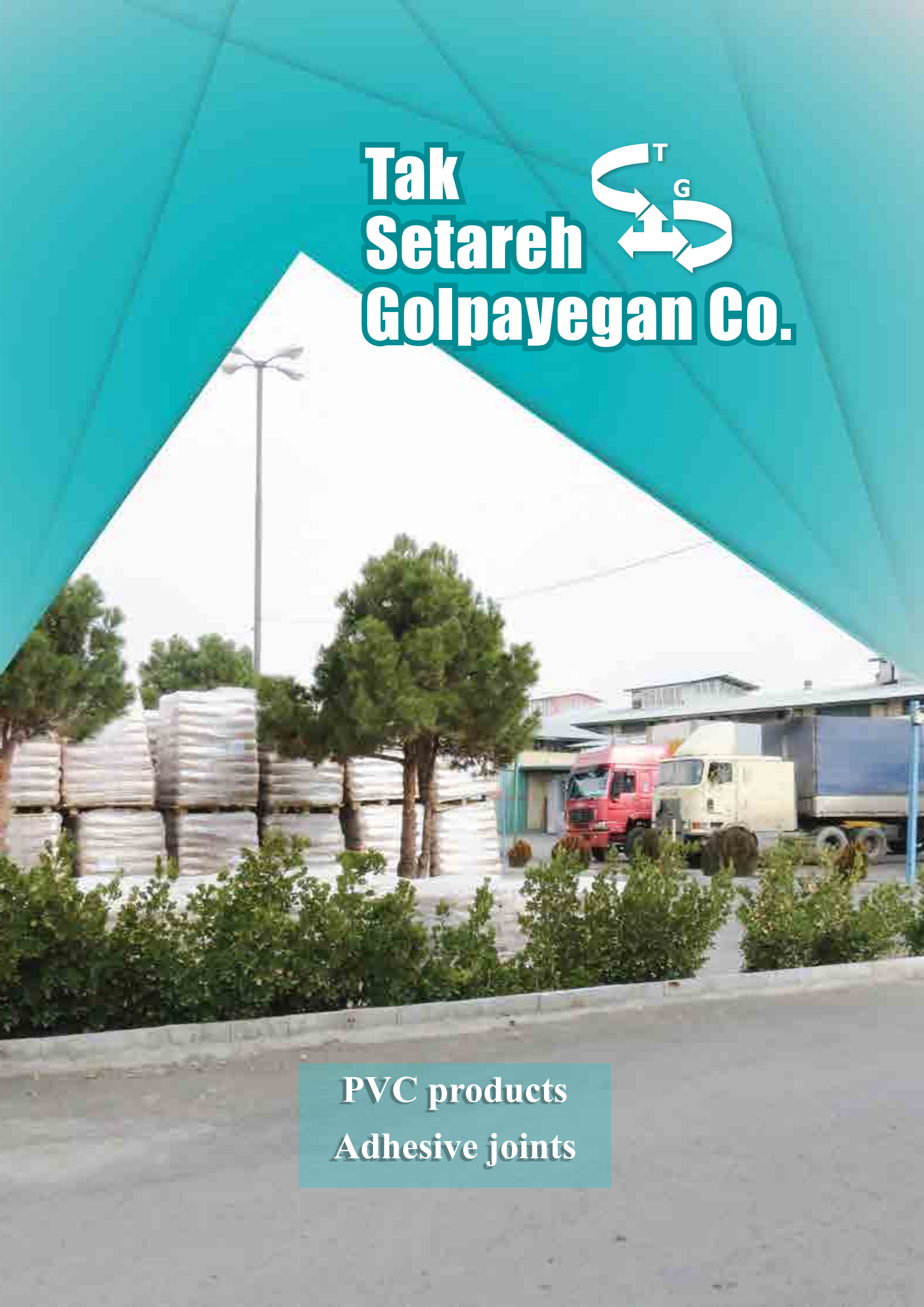
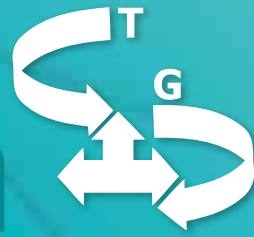




solvent pipes used in rainwater piping system for Consumption at work (gutters)		standard ISIRI 12142
Thickness	Outer Diameter	Barcode
1.5	50	11095209
1.5	63	11095210
1.5	75	11095211
1.8	90	11095212
2.2	110	11095213
2.5	125	11095214
2.7	140	11095215
3.2	160	11095216
2.2	90	11095222
1.8	75	11095223
2.2	75	11095232
1.8	40	11155217
1.8	50	11155218
1.9	63	11155219
4	200	11155220

# Tak Setareh Golpayegan Co.

# Tak Setareh Golpayegan Co.



PVC products  
Adhesive joints



## Reducer

Due to the short length of the pipe, it is very suitable in places where we have limited space. It can also be used for the outlet pipes of dishwashers, washing machines, sinks and as an interface for connecting pipes of different sizes.



solvent sewer fittings- Reducer					standard ISIRI 9119
Application Area	Number in the box	Thickness	Size	Fittings Group	Code NO.
		Milimeter			
BD	180	3	63/40	Reducer	13015153
BD	84	3	90/63		13015157
BD	90	3.2	110/63		13015159
BD	80	3.2	110/90		13015161
BD	80	3.2	125/63		13015162
BD	75	3.2	125/90		13015164
BD	50	3.2	125/110		13015165
BD	40	4	160/110		13015170
BD	40	4	160/125		13015171
BD	18	4.9	200/160		13015182
BD	9	4.9	250/200		13015189



## Waterway

### Types of Waterway 110-50

It is used for parking floors, halls, courtyards, etc. Its advantages over similar products include the following:

- One of its most important advantages is its extremely high strength compared to the products of other factories (such as polypropylene)
- Due to the presence of a net on the main throat of the floor, the possibility of insects entering the building or waste materials into the sewage well is reduced to zero
- Stylish and very beautiful and unique design compared to similar products in the country
- Easy installation

#### Exclusive Product



solvent sewer fittings- waterway					standard ISIRI 9119
Application Area	Number in the box	Thickness Milimeter	Size	Fittings Group	Code NO.
B	13	3	50-63	Parking water- way	13022154
B	15	3.2	90-110		13022161



### Waterway 110-90 Rooftop

This product, which is the exclusive product of Golpayegan's Tak Setareh Company, is used on the roofs and the installation method is as follows:

Depending on the size of the gutter pipe used in the building, which is available in two sizes, 90mm and 110mm, it is connected to the gutter pipe with glue by a number of brake couplings, then the insulation used for roofing, which is often waterproofing, is due to the curvature of the floor edges. The roof is heated and placed on the waterway until the indicator on the product is marked and completely sealed.

Advantages of this product:

- One of its most important advantages is its high strength and much longer life than the similar type of galvanized type.
- Due to the presence of a net on it, the possibility of leaves or other waste items entering the gutter tube is reduced to zero, and as a result, no clogging will occur in the gutter tube.
- Very easy to install

Exclusive Product

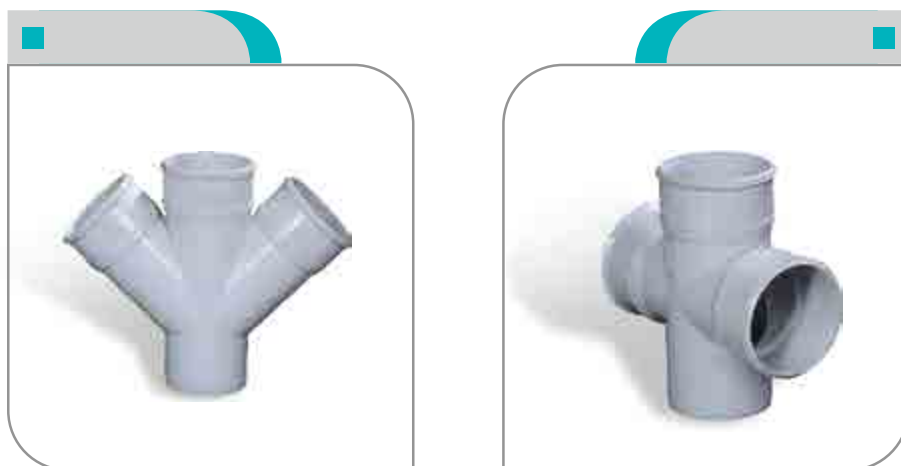


solvent sewer fittings - Roof top Waterway					standard ISIRI 9119
Application area	Number in the box	Thickness Milimeter	Size	Fittings Group	Code NO.
B	42	3	90	Roof top Waterway	13035128
B	42	3.2	110		13035129



## Cross

In some of the main routes of the sewerage network, where the consumption of fittings increases, and also in creating two branches of 45 degrees or 90 degrees, one crossroads can be used instead of two three-way to save space and the number of fittings. It can also be used in networks to create future branches.



solvent sewer fittings- cross					standard ISIRI 9119
Application Area	Number in the box	Thickness Milimeter	Size	Fittings Group	Code NO.
BD	12	3.2	110	Cross 45	13045129
BD	16	3.2	110	Cross 90	13055129



## Pipe clamp

The domestic and building sewage piping network and the installation of pipes from the upper floors to the water supply network and the municipal sewage system are mostly done in traditional ways. This causes breakage of pipes and leakage of water and sewage in cases of excessive pressure on the pipes that are left in the ducts of the building, resulting in subsidence and destruction of the building and incurring high costs. Therefore, Golpayegan's Tak Setareh Company, in order to eliminate these shortcomings, has designed and produced pipe clamps in different sizes, which are used during piping of domestic and municipal water supply and sewerage network to control and keep the pipes.

Advantages of this product:

- High speed of operation and ease of installation and execution
- Placing the pipes at the same distance



solvent sewer fittings - Pipe clamp					standard ISIRI 9119
Application Area	Number in the box	Thickness Milimeter	Size	Fittings Group	Code NO.
BD	48	3	63	Pipe clamp	13405126
BD	27	3	75		13405127
BD	28	3	90		13405128
BD	15	3.2	110		13405129
BD	10	3.2	125		13405130



## Cap

Negin model Cap



Edgeless roof cap



Caps produced by Golpayegan's Tak Setareh Company have a unique design with a beautiful and simple appearance. However, they are very practical in terms of engineering structure, because these caps create a relative vacuum at the end of the pipe, which causes the unpleasant air inside the pipe to be expelled quickly, and also prevents the return of air into the system, which prevents an unpleasant odor inside the building.

solvent sewer fittings - Cap					standard ISIRI 9119
Application Area	Number in the box	Thickness Milimeter	Size	Fittings Group	Code NO.
B	48	3.2	110	Negin model Cap	13085129
B	12	3	63	Edgeless roof cap	13095126
B	54	3	90		13095128
B	22	3.2	110		13095129

## Flange

A very practical product for installing water taps in the agricultural and horticultural process, which is made in sizes of 110 to 250 mm. The advantages of this product include quick and easy installation as well as reducing costs for the farmer.



solvent sewer fittings - Flange					standard ISIRI 9119
Application Area	Number in the box	Thickness Milimeter	Size	Fittings Group	Code NO.
BD	6	3.2	110	Flange	13185129
BD	6	3.2	125		13185130
BD	6	4	160		13185132
BD	6	4.2	200		13185134
BD	6	6.2	250		13185136



### Siphon interface tire



Solvent sewer fittings - Siphon interface tire					standard ISIRI 9119
Application Area	Number in the box	Thickness Milimeter	Size	Fittings Group	Code NO.
BD	35	3.2	110	Siphon inter- face tire to toilet bowl	16061129
BD	30	3.2	125		16061130

### Washer



Solvent sewer fittings-washer				standard ISIRI 9119
Application Area	Number in the box	Size Milimeter	Fittings Group	Code NO.
BD	500	63	Visit valve door washer	16071126
BD	500	90		16071128
BD	500	110		16071129
BD	500	125		16071130
BD	200	160		16071132
BD	100	200		16071134



### Visitor and blocker Valve interface



In places where there is a need for an outlet from the sewer system to eliminate clogs, the visit valve interface is used. In addition to beautifying plumbing, this product allows you to visit and develop the network.

Solvent sewer fittings - Visitor valve door interface					standard ISIRI 9119
Application Area	Number in the box	Thickness Milimeter	Size	Fittings Group	Code NO.
BD	150	3	63	Visitor valve door interface (skewer)	13135126
BD	70	3	90		13135128
BD	45	3.2	110		13135129
BD	60	3.2	125		13135130
BD	30	4	160		13135132
BD	20	4.9	200		13135134

### Visitor valve screw door



Solvent sewer fittings -Visitor valve screw door					standard ISIRI 9119
Application Area	Number in the box	Thickness Milimeter	Size	Fittings Group	Code NO.
BD	120	3	63	Visitor valve screw door	13385126
BD	300	3	90		13385128
BD	200	3.2	110		13385129
BD	150	3.2	125		13385130
BD	60	4	160		13385132
BD	40	4.9	200		13385134





### Socket (bushing)

Advantages of this product:

- No need to heat the pipes to connect them.
- Quick and easy connection of similar size pipes
- Use of repair couplings to repair damaged pipes



Solvent sewer fittings-Socket (bushing)					Standard ISIRI 9119
Application Area	Number in the box	Thickness Milimeter	Size	Fittings Group	Code NO.
BD	150	3	63	Rabering socket without brake	13155126
BD	116	3	90		13155128
BD	60	3.2	110		13155129
BD	4	6.2	250	Simple socket	13155136
BD	120	2	63	Rabering sock- et with brake	18145126
BD	116	3	90		18145128
BD	60	3.2	110		18145129

## Brake socket (bushing)

Brake couplings are used to connect pipes to each other. As you can see, each branch of the six-meter pipe is only one side of it, but when building sewer plumbing, it is often necessary to have pipes of different dimensions to connect to each other. Therefore, some people heat the pipes manually and unprincipledly to create more couplings. Performing this non-standard operation causes burns and brittleness, and at the end of the network is not easily sealed. Also, using the coupling method will reduce the length of the pipe.

(For example, the consumption of pipe 63 in places such as building toilets requires the connection of short and different sizes. If a 6-meter pipe is divided into 5 pieces and the coil size of this pipe is 7 cm, then 35 cm is deducted from the whole pipe.)

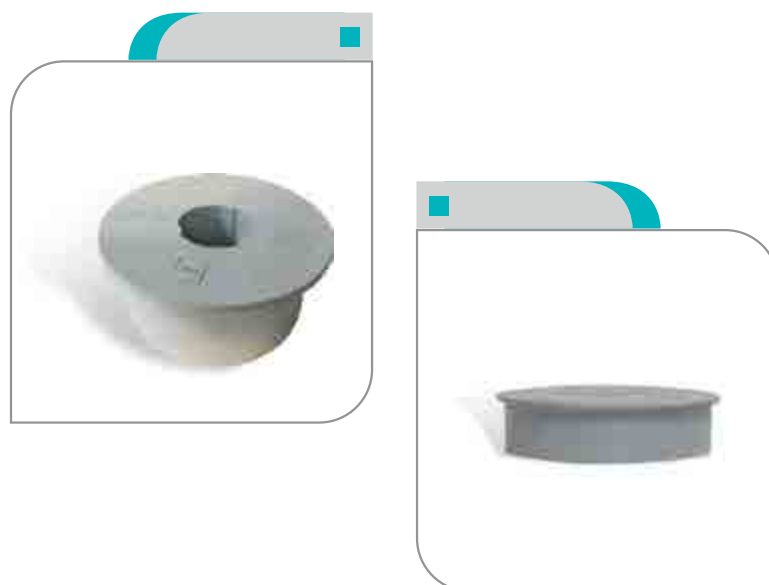


Solvent sewer fittings-Brake socket (bushing)					Standard ISIRI 9119
Application Area	Number in the box	Thickness Milimeter	Size	Fittings Group	Code NO.
BD	200	1.5	20	Brake socket (bushing)	13145121
BD	120	1.5	25		13145122
BD	55	3	40		13145124
BD	32	3	50		13145125
BD	180	3	75		13145127
BD	48	3.2	125		13145130
BD	24	4	160		13145132
BD	12	4.9	200		13145134
BD	4	6.2	250		13145136



### Blocking cap

It is used at the end of the sewer piping route temporarily or permanently, also after installing the sewer piping of buildings for the relevant tests and also as a cover to prevent the entry of objects and building materials into the construction network.



Solvent sewer fittings - Blocking					Standard ISIRI 9119
Application Area	Number in the box	Thickness Milimeter	Size	Fittings Group	Code NO.
BD	30	3	63	blocking	13165126
BD	17	3	90		13165128
BD	80	3.2	110		13165129
BD	55	3.2	125		13165130
BD	28	4	160		13165132
BD	24	4.9	200		13165134
BD	100	3	50	short blocking	13425125
BD	50	3	75		13425127
BD	25	3,2	110		13425129

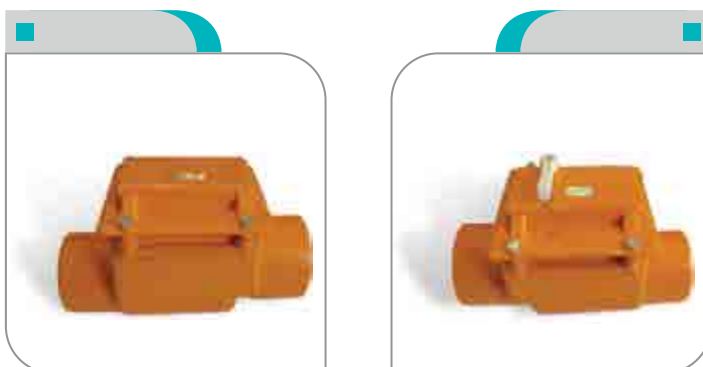


## One-side valve

In order to make the buildings safe from the return of municipal sewage, it is necessary to install a one-way valve, especially in apartment complexes. This valve facilitates the exit of sewage from the building to the municipal sewage or sewage well and prevents the entry of sewage from the city network or other apartments, as well as injuries into the building. Using these valves, you can install a projected branch in the sewer system. The installation location of this valve should be available for future repairs and periodic visits. This valve is designed in two forms with lock and without lock.

Advantages of this product:

- Keeping the building safe from the return of municipal sewage to the home.
- Providing the possibility of periodic visits and possible repairs.
- Preventing insects and animals from entering domestic sewage.
- Ability to be closed with complete sealing.
- Production of all parts of materials.



Solvent sewer fittings - One side valve					Standard ISIRI 9119
Application Area	Number in the box	Thickness Milimeter	Size	Fittings Group	Code NO.
BD	8	3.2	110	One side valve with lock	13116129
BD	soon	3.2	125		13116130
BD	soon	3.2	160		13116132
BD	8	3.2	110	One side valve without lock	13106129
BD	soon	3.2	125		13106130
BD	soon	3.2	160		13106132



### Stand siphon

The siphon is designed in such a way that the space and size of the throat inside is larger than the size of the outlet, and as a result, the fluid is drained easily and the probability of clogging is zero. The presence of the base below, in addition to more strength of the product, will facilitate the alignment of the connection and will also have a more beautiful appearance.



Solvent sewer fittings - Stand siphon					Standard ISIRI 9119
Application Area	Number in the box	Thickness	Size	Fittings Group	Code NO.
		Milimeter			
BD	15	3.2	125/125	Stand siphon	13175321

### Silent stand siphon



Solvent sewer fittings - Silent stand siphon					Standard ISIRI 9119
Application Area	Number in the box	Thickness	Size	Fittings Group	Code NO.
		Milimeter			
BD	70	3	63	Silent Stand siphon	14175126
BD	40	3	75		14175127
BD	44	3	90		14175128
BD	24	3.2	110		14175129





## Unique model siphon



Solvent sewer fittings - Unique siphon					Standard ISIRI 9119
Application Area	Number in the box	Thickness Milimeter	Size	Fittings Group	Code NO.
BD	15	3.2	125/110	Stand siphon	14445165
BD	34	3	90	Unique siphon	14445128

## Muff



Solvent sewer fittings - Muff					Standard ISIRI 9119
Application Area	Number in the box	Thickness Milimeter	Size	Fittings Group	Code NO.
BD	48	3.2	90	Muff	15475128
BD	30	3.2	110		15475129
BD	24	3.2	125		15475130



## Male and female fitting



Solvent sewer fittings - Male and female fitting					Standard ISIRI 9119
Application Area	Number in the box	Thickness Milimeter	Size	Fittings Group	Code NO.
BD	soon	3	63	Male and female fitting	13465126
BD		3	90		13465128
BD	60	3.2	110		13465129

## Simple Tee



Solvent sewer fittings - Simple tee					Standard ISIRI 9119
Application Area	Number in the box	Thickness Milimeter	Size	Fittings Group	Code NO.
BD	108	2	40	Tee 45°	13195124
BD	120	3	50		13195125
BD	170	2	40	Tee 90°	13205124
BD	120	3	50		13205125



## Silent tee

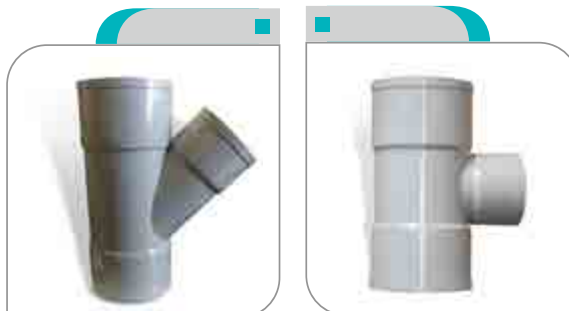
This tee is completely silent and is produced in different sizes.



Solvent sewer fittings - Silent tee					Standard ISIRI 9119
Application Area	Number in the box	Thickness Milimeter	Size	Fittings Group	Code NO.
BD	50	3	63	Silent tee 45	14195126
BD	30	3	75		14195127
BD	30	3	90		14195128
BD	20	3.2	110		14195129
BD	15	3.2	125		14195130
BD	6	4	160		14195132
BD	4	4	200		14195134
BD	66	3	63	Silent tee 90	14205126
BD	40	3	75		14205127
BD	42	3	90		14205128
BD	18	3.2	125		14205130
BD	8	4	160		14205132
BD	4	4	200		14205134
BD	66	3	63	Rubbering silent tee 90	18205126
BD	25	3,2	110		18205129



### Reducer Tee of Three Headed Coupling



Solvent sewer fittings - Reducer Tee of Three Headed Coupling					Standard ISIRI 9119
Application Area	Number in the box	Thickness Milimeter	Size	Fittings Group	Code NO.
BD	30	3,2	63/110	Tee reducer of three-headed coupling 45	13545159
BD	20	3,2	90/110		13545161
BD	56	3	63/90	Tee reducer of three-headed coupling 90	13525157
BD	35	3,2	63/110		13525159

### Three-Headed Coupling Tee



Solvent sewer fittings - Three-Headed Coupling Tee					Standard ISIRI 9119
Application Area	Number in the box	Thickness Milimeter	Size	Fittings Group	Code NO.
BD	50	3	63	Tee 45	13535126
BD	15	3.2	110		13535129
BD	42	3	90	Tee 90	13455128
BD	20	3.2	110		13455129



### Bend tee 5/87 degrees

The advantages of this product include the fact that the size of the bent input is 45 or 90 degrees larger than the usual three-way, so that the vertical input with a separate bend prevents the gradual clogging of the network. Also, due to the absence of a dead area and points with a 90-degree angle, the movement of waste and sewage becomes much easier and the possibility of sewage clogging is reduced to zero.



Solvent sewer fittings - Bend tee 5/87 degrees					Standard ISIRI 9119
Application Area	Number in the box	Thickness	Size	Fittings Group	Code NO.
		Milimeter			
BD	50	3	63	Bend tee 87.5 two headed coupling	13245126
BD	20	3.2	110	Bend tee 87.5 silent	14245129

### Manhole

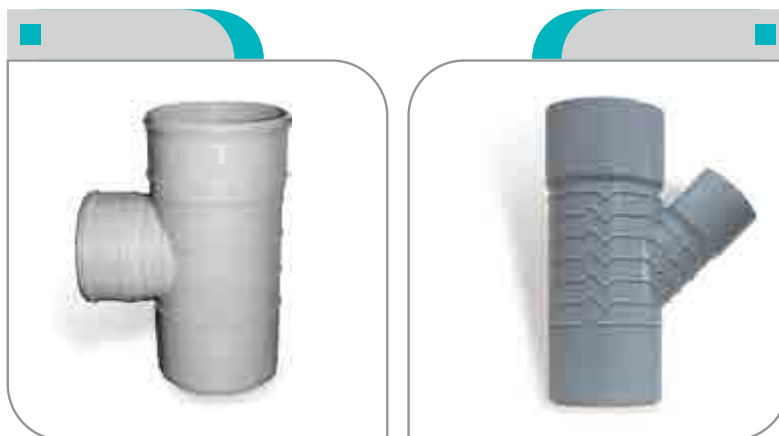


Solvent sewer fittings - Manhole					Standard ISIRI 9119
Application Area	Number in the box	Thickness	Size	Fittings Group	Code NO.
		Milimeter			
BD	1	6.2	110/125/250	Manhole	13125165





## Silent reducer tee



Solvent sewer fittings - Silent reducer tee					Standard ISIRI 9119
Application Area	Number in the box	Thickness Millimeter	Size	Fittings Group	Code NO.
BD	50	3	63/90	Reducer tee 45	14255157
BD	20	3.2	90/110		14255161
BD	15	3.2	110/125		14255165
BD	8	3	110/160		14255170
BD	10	3	125/160		14255171
BD	55	3	63/90	Reducer tee 87.5	14265157
BD	25	3.2	90/110		14265161
BD	45	3.2	63/110	Reducer tee 90	14265159
BD	20	3.2	110/125		14275165
BD	30	3.2	63/110	Rubbering reducer tee 45	18255159



## Visit Valve Tee

The three-way inspection valve manufactured by Golpayegan's Tak Setareh Company has been widely used to control and inspect industrial and municipal domestic sewage piping routes, some of the advantages of which are as follows:

- One of the most important advantages is that in some buildings, depending on the taste of the supervising engineer of the facility, to use the sewer piping routes, instead of a 90-degree inspection valve, they use a 45-degree inspection valve due to the lack of a 45-degree inspection valve. The three-way number 110-45 degrees and a number of 110 visitor interface are used in the 45-degree output of the three-way. Has also resulted in lower costs for the employer.
- Light weight and therefore lower prices than other factories (cast iron design)
- This product also has no metal screws and due to having o-rings, it is easily sealed and opening and closing operations are easily possible.
- The length of the valve is shorter than the time of use of a three-way number 45-110 degrees and a number of 110 valve inspection interface by about 70% and occupy less space of the building.
- Possibility to use it on the floor and walls of the building due to its geometric shape, design and construction. Also, it is very easy to install and visit



Simple visit valve tee/silent - Visit Valve Tee					Standard ISIRI 9119
Application Area	Number in the box	Thickness Milimeter	Size	Fittings Group	Code NO.
BD	18	3.2	125	Simple 90	13235130
BD	10	4	160		13235132
BD	20	3.2	110	Silent 45	14215126



### Bend Valve Inspection Silent Tee 87.5

The three-way inspection valve manufactured by Golpayegan's Tak Setareh Company has been widely used to control and inspect industrial and municipal domestic sewage piping routes, some of the advantages of which are as follows:

- One of the most important advantages is that in some buildings, depending on the taste of the supervising engineer of the facility, to use the sewer piping routes, instead of a 90-degree inspection valve, they use a 45-degree inspection valve due to the lack of a 45-degree inspection valve. The three-way number 110-45 degrees and a number of 110 visitor interface are used in the 45-degree output of the three-way. Has also resulted in lower costs for the employer.
- Light weight and therefore lower prices than other factories (cast iron design)
- This product also has no metal screws and due to having o-rings, it is easily sealed and opening and closing operations are easily possible.
- The length of the valve is shorter than the time of use of a three-way number 45-110 degrees and a number of 110 valve inspection interface by about 70% and occupy less space of the building.
- Possibility to use it on the floor and walls of the building due to its geometric shape, design and construction. Also, it is very easy to install and visit

#### Exclusive product



Solvent sewer fittings - Bend Valve Inspection Silent Tee 87.5					Standard ISIRI 9119
Application Area	Number in the box	Thickness	Size	Fittings Group	Code NO.
		Milimeter			
BD	20	3.2	110	Bend 87.5	14225129

## Coupling Elbow

With more strength and no need for manual coupling of the pipe and speeding up the installation process, in places where two 45 x 110 elbows are used in one row, one straight number and one double end of the coupling can be used.

Advantages of this product:

- Faster and easier installation of the sewer system.
- Reducing the number of fittings and costs



Solvent sewer fittings - Coupling Elbow					Standard ISIRI 9119
Application Area	Number in the box	Thickness Milimeter	Size	Fittings Group	Code NO.
BD	110	3	63	Two headed coupling elbow 45	13295126
BD	70	3	90		13295128
BD	25	3.2	110		13295129
BD	30	3.2	125		13295130
BD	90	3	63	Two headed coupling elbow 90	13305126
BD	30	3.2	110		13305129

## Elbow 110 \* 45 with branch 63

This product of Golpayegan's Tak Setareh Company, which is the exclusive product of this company in Iran, is designed for use after siphon.

Advantages of this product:

- Reduce connections to get Vent output.
- Due to the convenient location of the branch, it is easier to drain the siphon.
- In no way does it allow gas and unpleasant odors to enter the building



Solvent sewer fittings - Elbow 45*110branch 63					Standard ISIRI 9119
Application Area	Number in the box	Thickness Milimeter	Size	Fittings Group	Code NO.
BD	30	3.2	110	Elbow 110 * 45 with branch 63	13345129



## Electric elbow



Solvent sewer fittings - Electric elbow					Standard ISIRI 9119
Application  Area	Number in  the box	Thickness	Size	Fittings  Group	Code NO.
		Milimeter			
B	300	1.5	20	37cm	13375121
BD	300	1.5	25		13375122
BD	150	1.5	32		13375123
BD	250	1.5	20	60cm	13385121
BD	150	1.5	25		13385122
BD	300	1.5	20	42cm	13375130
BD	250	1.5	25		13375131
BD	150	1.9	32		13375132

## Electric connector



Solvent sewer fittings - Electric connector					Standard ISIRI 9119
Application Area	Number in the box	Thickness	Size	Fittings Group	Code NO.
		Milimeter			
BD	100	1.5	20	Electric connector	13435121
BD	80	1.5	25		13435122
BD	30	1.5	32		13435123



### Bending elbow one head coupling 87/5° Silent Rubbing

When installing sewer pipes in 90 screws to prevent clogging and problems related to Hydraulic water transfer and Acoustic issues, the connection of two elbows of 45 degrees with a 250 mm long pipe should be used. This in turn causes an additional connection or a decrease in velocity flow increases the probability of clogging and the possibility of sedimentation and sedimentation in the winding of the sewer route. To prevent these problems and reduce costs, Golpayegan' Tak Setareh Company has produced a bending elbow of 5.87 degrees with the ability to connect in two ways, solvent cement and push-fit.



Solvent sewer fittings - Bending elbow head one coupling 87/5° Silent Rubbing					Standard ISIRI 9119
Application Area	Number in the box	Thickness	Size	Fittings Group	Code NO.
BD	70	3	63	Bending elbow one head coupling 87/5° Silent Rubbing	14285126
BD	soon	3.2	90		14285128
BD	30	3.2	110		14285129

### Bending elbow 87.5 degree two head coupling Silent Rubbing



Solvent sewer fittings - Bending elbow 87.5 degree two head coupling silent Rubbing					Standard ISIRI 9119
Application Area	Number in the box	Thickness	Size	Fittings Group	Code NO.
BD	25	3,2	110	Bending elbow 87.5 degree two head coupling Silent Rubbing	14515129





## Silent elbows



Solvent sewer fittings - Silent elbows					Standard ISIRI 9119
Application Area	Number in the box	Thickness Milimeter	Size	Fittings Group	Code NO.
BD	60	3.2	110	Silent 30	14315129
BD	140	3	63	Rubbering 45	14325126
BD	45	3.2	110	Unique 45	14415129
B	140	3	63	Silent 45	14325126
BD	60	3	90		14325128
BD	40	3.2	125		14325130
BD	18	4	160		14325132
BD	8	3.9	200		14325134
BD	4	6.2	250		14325136
BD	140	3	63		14325126
BD	110	3	75	Rubbering 45	14325127
BD	60	3	90		14325128
B	90	3	63	Silent 90	14335126
BD	72	3	90		14335128
BD	30	3.2	110		14335129
BD	30	3.2	125		14335130
BD	14	4	160		14335132
BD	6	3.9	200		14335134
BD	3	6.2	250		14335136
BD	140	3	63	Rubbering 90	18335126
BD	60	3	75		18335127



## Simple elbows

Solvent sewer fittings - Simple elbows					Standard ISIRI 9119
Application Area	Number in the box	Thickness Milimeter	Size	Fittings Group	Code NO.
BD	45	2	40	45	13325124
BD	30	2	50		13325125
BD	35	2	40	90	13335124
BD	160	2	50		13335125

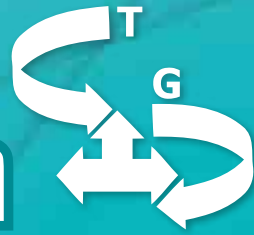


## Siphon kit for municipal wastewater diversion

Solvent sewer fittings - Siphon kit for municipal waste water diversion					Standard ISIRI 9119
Application Area	Number in the box	Thickness Milimeter	Size	Fittings Group	Code NO.
BD	5	3.2	110	V	14495323
BD	3	3.2	110	Y	14495324
BD	3	3.2	110	P	14495325



# Tak Setareh Golpayegan Co.



**PVC Products  
Push-Fit Pipes**



## Push fit

Push fit is a construction sewage piping system in which each of the pipes and fittings has a socket on one side in which there is a sealing ring and the end without the socket can be easily and with a little pressure into the pipe socket or enter the next connection. Due to the nature of the parts connected to each other, this system is called push-fit.

This system has no operational and application limitations of previous systems and at the same time has new advantages that for the first time a British company succeeded in designing and producing such a system.

The push-fit system is now approved by construction professionals and experts across the country and used in construction projects. The reason for this public acceptance is the features that make this product unique.

## Features of Push fit system

- Long life due to impact resistance of pipes, fittings and sealing rings, mechanical stresses and chemicals
- High speed and ease in installation and execution, thus saving time and maintenance costs
- Failure to impose additional loads on the building due to low weight and lack of need to strengthen the load-bearing sections in the building
- No need for glue, welding and the like and reducing operating costs
- Stable and reliable sealing even in the case of building subsidence and non-destructive vibrations due to the compositional characteristics of the system
- Ability to adapt and connect system components to pipes and fittings of other old systems, including polymer and alloy
- Ability to run the Went system quickly and easily and add as much as possible to the useful life of the system
- Utilizing the most advanced technology in the world
- Design and manufacture of appropriate tools and equipment to facilitate and ensure the installation and implementation process
- Dimensional variation in terms of pipe diameter and fittings (63 to 160 mm), angles (45, 30, 15 and 87 degrees) and pipe length (from 30 cm to 6 m)
- Very simple and flexible design and implementation due to the presence of one or two sockets in the pipes



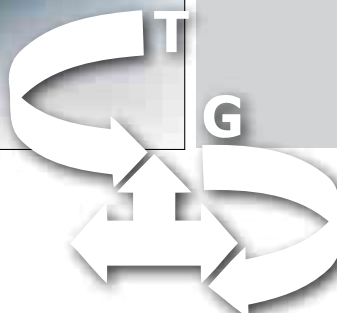
### Types of push - fit system

Golpayegan's Tak Setareh push fit system has two general models:

- Usual Push fit
- True Silent Push fit

### Uses of push - fit systems

- Golpayegan's Tak Setareh sewer construction sewage system is a carefully selected choice for hotels, hospitals, libraries, sound and recording centers, residential and office buildings, and wherever more relaxation is needed.



**Tak Setareh Golpayegan Co.**



## Push fit Pipes

Push fit pipes used in pressurized water supply			ISIRI 13361 EN 1452
Thickness	Pressure	Outside diameter	Code NO.
1.5	16	20	12094005
1.9	20	20	12094006
2.3	25	20	12094009
1.9	16	25	12094010
2.3	20	25	12094011
1.9	10	32	12094014
2.4	12.5	32	12094015
3	16	32	12094016
3.7	20	32	12094017
1.9	10	40	12094021
2.4	12.5	40	12094022
3	16	40	12094023
3.7	20	40	12094024
2.4	10	50	12094029
3	12.5	50	12094030
3.7	16	50	12094031
4.6	20	50	12094032
2	6	63	12094036
2.5	8	63	12094037
3	10	63	12094038
3.8	12.5	63	12094039
4.7	16	63	12094040
5.8	20	63	12094041
2.3	6	75	12094045
2.9	8	75	12094046
3.6	10	75	12094047
4.5	12.5	75	12094048
5.6	16	75	12094049
6.8	20	75	12094050
2.8	6	90	12094054
3.5	8	90	12094055
4.3	10	90	12094056
5.4	12.5	90	12094057
6.7	16	90	12094058
8.2	20	90	12094059
2.7	6	110	12094063
3.4	8	110	12094064
4.2	10	110	12094065
5.3	12.5	110	12094066





Push fit pipes used in pressurized water supply			ISIRI 13361 EN 1452
Thickness	Pressure	Outside diameter	Code NO.
6.6	16	110	12094067
8.1	20	110	12094068
10.1	25	110	12094069
3.1	6	125	12094072
3.9	8	125	12094073
4.8	10	125	12094074
6	12.5	125	12094075
7.4	16	125	12094076
9.2	20	125	12094077
11.4	25	125	12094078
3.6	6	140	12094081
4.3	8	140	12094082
5.4	10	140	12094083
6.7	12.5	140	12094084
8.3	16	140	12094085
10.3	20	140	12094086
12.7	25	140	12094087
4	6	160	12094091
4.9	8	160	12094092
6.2	10	160	12094093
7.7	12.5	160	12094094
9.5	16	160	12094095
11.8	20	160	12094096
14.6	25	160	12094097
4.9	6	200	12094111
6.2	8	200	12094112
7.7	10	200	12094113
9.6	12.5	200	12094114
11.9	16	200	12094115
14.7	20	200	12094116
18.2	25	200	12094117
6.2	6	250	12094131
7.7	8	250	12094132
9.6	10	250	12094133
11.9	12.5	250	12094134
14.8	16	250	12094135
18.4	20	250	12094136
7.7	6	315	12094151
9.7	8	315	12094152
12.1	10	315	12094153
15	12.5	315	12094154
18.7	16	315	12094155
23.2	20	315	12094156
			12094156



(A piece of) Push fit pipes used in construction wastewater disposal				ISIRI 9119 - EN 1329		
Code NO.	size (cm)	Code NO.	size (cm)	Application area	Thickness	Outside diameter
13111003081	35	13110103081	30	B	3	32
13111103081	50	13110203081	50			
13111203081	100	13110403081	100			
13111303081	200	13110503081	200			
13111403081	300	13110603081	300			
13111004081	35	13110104081	30	B	3	40
13111104081	50	13110204081	50			
13111204081	100	13110404081	100			
13111304081	200	13110504081	200			
13111404081	300	13110604081	300			
13111005081	35	13110105081	30	B	3	50
13111105081	50	13110205081	50			
13111205081	100	13110405081	100			
13111305081	200	13110505081	200			
13111405081	300	13110605081	300			
13111006081	35	13110106081	30	B	3	63
13111106081	50	13110206081	50			
13111206081	100	13110406081	100			
13111306081	200	13110506081	200			
13111406081	300	13110606081	300			
13111007091	35	13110107091	30	BD	3	75
13111107091	50	13110207091	50			
13111207091	100	13110407091	100			
13111307091	200	13110507091	200			
13111407091	300	13110607091	300			
13111008091	35	13110108091	30	BD	3	90
13111108091	50	13110208091	50			
13111208091	100	13110408091	100			
13111308091	200	13110508091	200			
13111408091	300	13110608091	300			
13111009091	35	13110109091	30	BD	3.2	110
13111109091	50	13110209091	50			
13111209091	100	13110409091	100			
13111309091	200	13110509091	200			
13111409091	300	13110609091	300			
13111010091	35	13110110091	30	BD	3.2	125
13111110091	50	13110210091	50			
13111210091	100	13110410091	100			
13111310091	200	13110510091	200			
13111410091	300	13110610091				



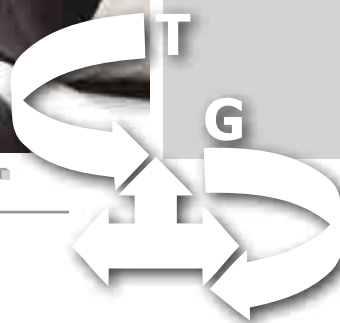
(A piece of) Push fit pipes used in construction wastewater disposal				ISIRI 9119 - EN 1329		
Code NO. Double coupling	size (cm)	Code NO. Single coupling	size (cm)	Application area	Thickness	Outside diameter
13111003081	35	13110103081	30	B	3	32
13111103081	50	13110203081	50			
13111203081	100	13110403081	100			
13111303081	200	13110503081	200			
13111403081	300	13110603081	300			
13111004081	35	13110104081	30	B	3	40
13111104081	50	13110204081	50			
13111204081	100	13110404081	100			
13111304081	200	13110504081	200			
13111404081	300	13110604081	300			
13111005081	35	13110105081	30	B	3	50
13111105081	50	13110205081	50			
13111205081	100	13110405081	100			
13111305081	200	13110505081	200			
13111405081	300	13110605081	300			
13111006081	35	13110106081	30	B	3	63
13111106081	50	13110206081	50			
13111206081	100	13110406081	100			
13111306081	200	13110506081	200			
13111406081	300	13110606081	300			
13111007091	35	13110107091	30	BD	3	75
13111107091	50	13110207091	50			
13111207091	100	13110407091	100			
13111307091	200	13110507091	200			
13111407091	300	13110607091	300			
13111008091	35	13110108091	30	BD	3	90
13111108091	50	13110208091	50			
13111208091	100	13110408091	100			
13111308091	200	13110508091	200			
13111408091	300	13110608091	300			
13111009091	35	13110109091	30	BD	3.2	110
13111109091	50	13110209091	50			
13111209091	100	13110409091	100			
13111309091	200	13110509091	200			
13111409091	300	13110609091	300			
13111010091	35	13110110091	30	BD	3.2	125
13111110091	50	13110210091	50			
13111210091	100	13110410091	100			
13111310091	200	13110510091	200			
13111410091	300	13110610091				



Push fit pipes used in construction wastewater disposal			- ISIRI 9118 EN 1401
SN	Thickness	Outside diameter	Code NO.
4	3.2	110	12095194
8	3.2	110	12095195
4	3.2	125	12095196
8	3.7	125	12095197
2	3.2	160	12095198
4	4	160	12095199
8	4.7	160	12095200
4	4.9	200	12095201
8	5.9	200	12095202
2	4.9	250	12095203
4	6.2	250	12095204
8	7.3	250	12095205
2	6.2	315	12095206
4	7.7	315	12095207
8	9.2	315	12095208



Tak Setareh Golpayegan Co.





(A piece of) Push fit pipes used in construction waste-water disposal				ISIRI 9118 - EN 1401		
Code NO. Double coupling	size (cm)	Code NO. Single coupling	size (cm)	SN	Thick- ness	Outside diameter
13311009111	35	13310109111	30	4	3.2	110
13311109111	50	13310209111	50			
13311209111	100	13310409111	100			
13311309111	200	13310509111	200			
13311409111	300	13310609111	300			
13311009121	35	13310109121	30	8	3.2	110
13311109121	50	13310209121	50			
13311209121	100	13310409121	100			
13311309121	200	13310509121	200			
13311409121	300	13310609121	300			
13311010111	35	133110110111	30	4	3.2	125
13311110111	50	133110210111	50			
13311210111	100	133110410111	100			
13311310111	200	133110510111	200			
13311410111	300	133110610111	300			
13311010121	35	13310110121	30	8	3.7	125
13311110121	50	13310210121	50			
13311210121	100	13310410121	100			
13311310121	200	13310510121	200			
13311410121	300	13310610121	300			
13311012101	35	13310112101	30	2	3.2	160
13311112101	50	13310212101	50			
13311212101	100	13310412101	100			
13311312101	200	13310512101	200			
13311412101	300	13310612101	300			
13311012111	35	13310112111	30	4	4	160
13311112111	50	13310212111	50			
13311212111	100	13310412111	100			
13311312111	200	13310512111	200			
13311412111	300	13310612111	300			
13311012121	35	13310112121	30	8	4.7	160
13311112121	50	13310212121	50			
13311212121	100	13310412121	100			
13311312121	200	13310512121	200			
13311412121	300	13310612121	300			
13311013111	35	13310113111	30	4	4.9	200
13311113111	50	13310213111	50			
13311213111	100	13310413111	100			
13311313111	200	13310513111	200			
13311413111	300	13310613111	300			
13311013111	35	13310113121	30	8	5.9	200
13311113111	50	13310213121	50			
13311213111	100	13310413121	100			
13311313111	200	13310513121	200			
13311413111	300	13310613121	300			

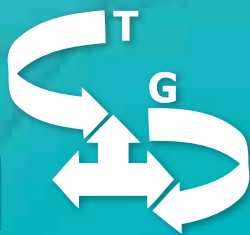


(A piece of) Push fit pipes used in construction waste-water disposal				ISIRI 9118 - EN 1401		
Code NO. Double coupling	size (cm)	Code NO. Single coupling	size (cm)	SN	Thickness	Outside diameter
13311014101	35	13310114101	30	2	4.9	250
13311114101	50	13310214101	50			
13311214101	100	13310414101	100			
13311314101	200	13310514101	200			
13311414101	300	13310614101	300			
13311014111	35	13310114111	30	4	6.2	250
13311114111	50	13310214111	50			
13311214111	100	13310414111	100			
13311314111	200	13310514111	200			
13311414111	300	13310614111	300			
13311014121	35	13310114121	30	8	7.3	250
13311114121	50	13310214121	50			
13311214121	100	13310414121	100			
13311314121	200	13310514121	200			
13311414121	300	13310614121	300			
13311015101	35	13310115101	30	2	6.2	315
13311115101	50	13310215101	50			
13311215101	100	13310415101	100			
13311315101	200	13310515101	200			
13311415101	300	13310615101	300			
13311015111	35	13310115111	30	4	7.7	315
13311115111	50	13310215111	50			
13311215111	100	13310415111	100			
13311315111	200	13310515111	200			
13311415111	300	13310615111	300			
13311015121	35	13310115121	30	8	9.2	315
13311115121	50	13310215121	50			
13311215121	100	13310415121	100			
13311315121	200	13310515121	200			
13311415121	300	13310615121	300			

Push fit Pipes used in rainwater piping system for using on work (gutters)		Standard ISIRI 12142
Thickness	Outside diameter	Code NO.
1.5	50	12095209
1.5	63	12095210
1.5	75	12095211
1.8	90	12095212
2.2	110	12095213
2.5	125	12095214
2.7	140	12095215
3.2	160	12095216



# Tak Setareh Golpayegan Co.



**PVC Products  
Push fit Fittings**



## Push fit Fittings

Push fit sewer fittings - Reducer					Standard ISIRI 9119
Application area	No in the box	Thickness	Size	Fittings group	Code NO.
		Milimeter			
B	180	3	63/40	Reducer	12015153
BD	168	3	90/63		12015157
BD	90	3.2	110/63		12015159
BD	80	3.2	110/90		12015161
BD	80	3.2	125/63		12015162
BD	75	3.2	125/90		12015164
BD	50	3.2	125/110		12015165
BD	40	4	160/110		12015170
BD	40	4	160/125		12015171
BD	18	4.9	200/160		12015182

Push fit sewer fittings - Cross					Standard ISIRI 9119
Application area	No in the box	Thickness	Size	Fittings group	Code NO.
		Milimeter			
BD	12	3.2	110	Cross 45	12015153
BD	16	3.2	110	Cross 90	12055129

Push fit sewer fittings - Socket					Standard ISIRI 9119
Application area	No in the box	Thickness	Size	Fittings group	Code NO.
		Milimeter			
BD	60	3.2	110	Simple socket	12155129
BD	4	6.2	250		12155136
BD	200	1.5	20	Brake socket	12145121
BD	120	1.5	25		12145122
B	55	3	40		12145121
B	32	3	50		12145124
B	240	3	63		12145125
BD	180	3	75		12145126
BD	116	3	90		12145127
BD	60	3.2	110		12145128
BD	48	3.2	125		12145129
BD	24	4	160		12145130
BD	12	4.9	200		12145132
BD	4	6.2	250		12145134



Push fit sewer fittings - Stand siphon					Standard ISIRI 9119
Application area	No in the box	Thickness	Size	Fittings group	Code NO.
		Milimeter			
BD	15	3.2	125/125	Stand siphone	12176321

Push fit sewer fittings - Silent stand siphon					Standard ISIRI 9119
Application area	No in the box	Thickness	Size	Fittings group	Code NO.
		Milimeter			
B	70	3	63	Stand silent siphone	12175126
BD	40	3	75		12175127
BD	44	3	90		12175128
BD	24	3.2	110		12175129
BD	20	3.2	110/125		12175165

Push fit sewer fittings - Simple tee					Standard ISIRI 9119
Application area	No in the box	Thickness	Size	Fitting .group	Code NO.
		Milimeter			
B	108	2	40	Tee 45	12195124
B	120	3	50		12195125
BD	(bag) 4	9/4	200		12195134
B	170	2	40	Tee 90	12205124
B	120	3	50		12205125
BD	42	3	90		12205128
BD	(bag) 4	9/4	200		12205134



Push fit sewer fittings - Silent tee					Standard ISIRI 9119
Application area	No in the box	Thickness	Size	Fittings group	Code NO.
		Milimeter			
B	50	3	63	Silent Tee 45	12195126
BD	30	3	75		12195127
BD	30	3	90		12195128
BD	20	3.2	110		12195129
BD	15	3.2	125		12195130
BD	6	4	160		12195132
BD	4	4	200		12195134
BD	66	3	63	Silent tee 90	12205126
BD	40	3	75		12205127
BD	42	3	90		12205128
BD	25	3.2	110		12205129
BD	18	3.2	125		12205130
BD	8	4	160		12205132
BD	4	4	200		12205134

Push fit sewer fittings - Bend elbow coupling 87.5					Standard ISIRI 9119
Application area	No in the box	Thickness	Size	Fittings group	Code NO.
		Milimeter			
B	100	3	63	Bend tee 87.5	12245126
BD	20	3.2	110		12245129

Push fit sewer fittings - Simple reducer tee					Standard ISIRI 9119
Application area	No in the box	Thickness	Size	Fittings group	Code NO.
		Milimeter			
BD	8	4	160/110	Reducer tee45	12255170
BD	55	3	90/63	Reducer tee 87.5	12265157



Push fit sewer fittings - Silent reducer tee					Standard ISIRI 9119
Application area	No in the box	Thickness	Size	Fittings group	Code NO.
		Milimeter			
BD	50	3	90/63	Silent reducer tee 45	12255157
BD	39	3.2	63/110		12255159
BD	20	3.2	90/110		12255161
BD	15	3.2	110/125		12255165
BD	10	3	125/160		12255171
BD	25	3.2	90/110	Silent reducer tee 87.5	12265161
BD	45	3.2	63/110	Silent reducer tee 90	12265159
BD	20	3.2	110/125		12275165

Push fit sewer fittings - Simple Visitor Valve Tee					Standard ISIRI 9119
Application area	No in the box	Thickness	Size	Fittings group	Code NO.
		Milimeter			
BD	20	3.2	110	Visitor tee valve 45	12215129
BD	18	3.2	125	Visitor tee valve 90	12235130
BD	10	4	160		12235132

Push fit sewer fittings - Silent Visitor Valve Tee					Standard ISIRI 9119
Application area	No in the box	Thickness	Size	Fittings group	Code NO.
		Milimeter			
BD	20	3.2	110	Visitor tee valve 87.5 silent bend	12225129

Push fit sewer fittings - Simple elbow					Standard ISIRI 9119
Application area	No in the box	Thickness	Size	Fittings group	Code NO.
		Milimeter			
B	45	3	40	Elbow 45	12325124
BD	30	2	50		12325125
BD	18	4	160		12325132
BD	8	4/9	200		12325134
B	35	3	40	Elbow 90	12335124
B	160	3	50		12335125
BD	14	4	160		12335132
BD	6	4/9	200		12335134



Push fit sewer fittings - Elbow 110*45 branch 63					Standard ISIRI 9119
Application area	No in the box	Thickness	Size	Fittings group	Code NO.
		Milimeter			
BD	30	3.2	110	Elbow 45 divergent63	12345129

Push fit sewer fittings - Silent elbow					Standard ISIRI 9119
Application area	No in the box	Thickness	Size	Fittings group	Code NO.
		Milimeter			
BD		3.2	63	Bend elbow coupling 87.5	12285126
BD		3.2	90		12285128
BD	30	3.2	110		12285129

Push fit sewer fittings - Bend elbow coupling 87.5					Standard ISIRI 9119
Application area	No in the box	Thickness	Size	Fittings group	Code NO.
		Milimeter			
BD	60	3.2	110	Elbow 30	12315129
BD	45	3.2	110	Unique elbow 45	12415129
BD	140	3	63	Elbow 45	12325126
BD	110	3	75		12325127
BD	60	3	90		12325128
BD	60	3.2	110		12325129
BD	40	3.2	125		12325130
BD	18	4	160		12325132
BD	90	3	63	Elbow 90	12335126
BD	60	3	75		12335127
BD	72	3	90		12335128
BD	30	3.2	110		12335129
BD	30	3.2	125		12335130
BD	14	4	160		12335132
BD	14	4	160		14123312001

Push fit sewer fittings - Silent elbow					Standard ISIRI 9119
Application area	No in the box	Thickness	Size	Fittings group	Code NO.
		Milimeter			
BD	48	3.2	90	Muffe	15465128
BD	30	3.2	110		15465129
BD	24	3.2	125		15465130



**Pipe - cutter**

With this device, you can easily cut the pipe smoothly and quickly.

**Conch**

In order to connect the two pieces of pipe to each other better and in principle, after cutting the pipes, you should chamfer one side of it with this machine.

**Stopper (for network testing)**

Facilitate the testing of sewer networks as well as blocking parts of the network for internal pressure testing.

**Branch wrench**

To tighten the branch nut when connecting to the main pipe



# Negin Setareh Golpayegan Co.

**NR**  
NEGIN STAR PIPE

Negin Setareh Golpayegan  
COMPANY

**NEGIN SETAREH GOLPAYGAN**  
Network installation and testing tools

## History of polyethylene

When the world entered industrialization, the need for a durable, malleable, and inexpensive tool for a variety of uses was fully felt because materials with these properties could not be found naturally, so extensive efforts were made to make such materials. Began with an abnormal structure in organic chemistry. The word polymer was first used by a chemist named Renalt in 1835. The word polymer is derived from the Greek word Poly meaning multi and MEROS meaning unit or part. Basically, polymers are divided into three types: natural, modified, and synthetic. Polyethylene in 1942, polypropylene in 1975, polybutylene in 1974, and liquid crystal polymers for making electrical components in 1985.

## High density polyethylene (HDPE)

This polyethylene has a branchless polymer chain. Therefore, the intermolecular strength in the chains is high and its tensile strength is higher than other polyethylene. For the production of polyethylene without branches, the polymerization method with Ziegler-Nata catalyst is usually used.

## Medium density polyethylene (MDPE)

This type of polyethylene has many applications in the production of various plastic appliances used in the kitchen and food industry. MDPE is also commonly used in the production of plastic pipes and piping fittings.

## Low density polyethylene (LDPE)

This polyethylene has a branched chain, so the LDPE chains cannot bond well with each other and have poor intermolecular strength and less tensile strength. This type of polyethylene is usually produced by radical polymerization. The polymer is characterized by flexibility and the ability to decompose by microorganisms.



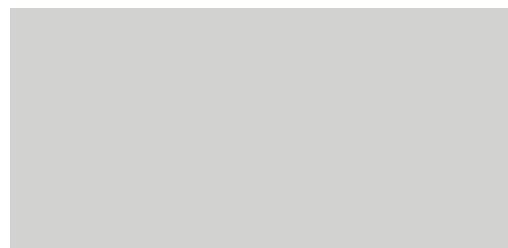
## Polyethylene specifications

Properties and characteristics of polyethylene materials have led to the use of plastics and especially polyethylene, due to the short period of life that has a growing trend. In the last fifty years, due to the progress made in the field of production of various types of polyethylene pipes and fittings, these products have made themselves a suitable alternative for metal pipes, GRP, PVC and cast iron. The strength, durability and easy installation method make polyethylene pipes and fittings one of the most widely used products in plumbing systems.



## Advantages and characteristics of polyethylene pipes and fittings

- Resistance to galvanic abrasion, rot and corrosion and chemical fluids
- Resistance to pressure and impact
- Resistance to earthquakes caused by earthquakes and landslides, especially at sea level, where the layers of the earth are more likely to move
- Resistant to ultraviolet and infrared rays
- Resistant to operating temperatures below zero to 40 degrees Celsius
- Ease of installation and fast execution
- High flexibility
- Long service life (50 years)
- Light weight
- Low maintenance costs
- Easy to transport
- Lack of sediment due to the smoothness of the inner wall
- Rust protection





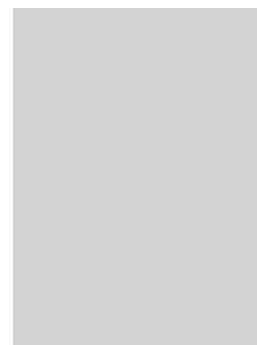
### Uses of polyethylene pipes and fittings

- Urban, rural and industrial water supply networks
- Pressure irrigation networks (drip and rain)
- Urban, rural and industrial sewerage networks
- Gas supply networks
- Drainage networks
- Covering telecommunication cables and fiber optics
- Covering power cables
- Covering metal pipes
- Industrial liquid and wastewater systems
- Dredging systems
- Food piping
- Systems for highly abrasive liquids
- Use in buildings
- As heat and sound insulation pipes
- As ventilation ducts



## Production Process

Single-spiral extruders designed for this purpose are used to produce polyethylene pipes. On the spiral, there are areas for directing the inlet feed into the cylinder to compress and prepare a uniform melt and pump the melt into the die. Heat energy is provided to melt the material through the rotation of the helix (stresses from the helix to the raw material) and the thermal elements around the cylinder, which are controlled by special fans around the elements.

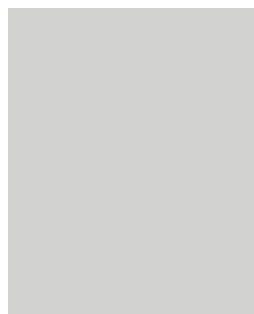


## Product packaging

Polyethylene pipes have the ability to be coiled due to their very high flexibility. All coils must be fully secured at least 4 to 6 points according to their size by suitable cotton ropes or plastic straps.

Pipes with sizes 16 to 40 are packed in coils. Sizes 50 to 125 are available in both coil and branch. Pipes should be moved with proper equipment and stored in a standard space before transport. The company's quality control unit has full supervision over transportation, warehousing and loading.

Proper packaging of pipes and fittings enables safe storage of products and makes maximum use of storage space for users.





# Negin Setareh Golpayegan Co.

**NR**  
NEGIN STAR PIPE

## Polyethylene products

Pressed polyethylene pipes  
Drip irrigation pipe  
Fittings and accessories



## Pressed polyethylene pipes

Polyethylene pipes with a wide range of applications are mainly used by farmers and operators of pressurized water transmission and irrigation systems. In Negin Setareh Golpayegan Company, polyethylene pipes for use in irrigation and water supply networks according to German production standards DIN 8074, using the best raw materials PE80, PE100 and PE40, which are supplied by domestic and foreign companies and with outside diameters of 16 to 400 mm are produced in pressure ranges from 2.3 to 25 atmospheres according to national and international standards.

Standard length table and the possibility of changing them according to Customer's need		Polyethylene pressure pipes	
Maximum ring length	Standard length	size	row
600	400	16	1
400	200	20	2
400	200	25	3
300	150	32	4
200	100	40	5
200	100	50	6
200	100	63	7
200	100	75	8
150	100	90	9
100	100	110	10
100	100	125	11
12	6-12	160	12
12	6-12	Up to 400	13



**Tak Setareh Golpayegan Co.**

Dimensional specifications of polyethylene pipes produced by Golpayegan's Tak setareh company

Pipe series			S20				S16			S12.5			S10				
Diameter to thickness ratio				SDR41				SDR33			SDR26			SDR21			
Sf=1.25		PE80		PN3.2			PN4			PN5			PN6				
		PE100		PN4			PN5			PN6			PN8				
Sf=1.6		PE80		PN2.5			PN3.2			PN4			PN5				
		PE100		PN3.2			PN4			PN5			PN6				
Outside diameter		Identi- fier bar width	Maxi- mum double width	Nominal thick- ness(mm)		Weight per meter	Nominal thick- ness(mm)		Weight per meter	Nominal thick- ness(mm)		Weight per meter	Nominal thick- ness(mm)		Weight per meter		
Dmin	Dmax			emin	emax		emin	emax		emin	emax		emin	emax			
16	16.3	max 3	1.2	-	-	-	-	-	-	-	-	-	-	-	-		
20	20.3	max 3	1.2	-	-	-	-	-	-	-	-	-	-	-	-		
25	25.3	max 3	1.2	-	-	-	-	-	-	-	-	-	-	-	-		
32	32.3	5-3	1.2	-	-	-	-	-	-	-	-	-	-	-	-		
40	40.4	5-3	1.4	-	-	-	-	-	-	-	-	-	2	2.3	0.239		
50	50.4	5-3	1.4	-	-	-	-	-	-	2	2.3	0.314	2.4	2.8	0.374		
63	63.4	5-3	1.5	-	-	-	2	2.3	0.399	2.5	2.9	0.494	3	3.4	0.58		
75	75.5	5-3	1.6	-	-	-	2.3	2.6	0.551	2.9	3.3	0.675	3.6	4.1	0.828		
90	90.6	10-5	1.8	-	-	-	2.8	3.2	0.791	3.5	4	0.978	4.3	4.9	1.18		
110	110.7	10-5	2.2	-	-	-	3.4	3.9	1.17	4.2	4.8	1.43	5.3	6	1.77		
125	125.8	10-5	2.5	-	-	-	3.9	4.4	1.51	4.8	5.4	1.84	6	6.7	2.27		
140	140.9	10-5	2.8	-	-	-	4.3	4.9	1.88	5.4	6.1	2.32	6.7	7.5	2.83		
160	161	10-5	3.2	4	4.5	2	4.9	5.5	2.42	6.2	7	3.04	7.7	8.6	3.72		
180	181.1	10-5	3.6	4.4	5	2.49	5.5	6.2	3.07	6.9	7.7	3.79	8.6	9.6	4.67		
200	201.2	12-5	4	4.9	5.5	3.05	6.2	6.9	3.84	7.7	8.6	4.69	9.6	10.7	5.78		
225	226.4	12-5	4.5	5.5	6.2	3.86	6.9	7.7	4.77	8.6	9.6	5.89	10.8	12	7.3		
250	251.5	12-5	5	6.2	6.9	4.83	7.7	8.6	5.92	9.6	10.7	7.3	11.9	13.2	8.93		
280	281.7	12-5	9.8	6.9	7.6	5.98	8.6	9.5	7.40	10.7	11.9	9.1	13.4	14.9	11.3		
315	316.9	12-5	11.1	7.7	8.6	7.52	9.7	10.8	9.37	12.1	13.5	11.6	15	16.6	14.2		
355	357.2	-	12.5	8.7	9.7	9.55	10.9	12.1	11.8	13.6	15.1	14.6	16.9	18.7	18		
400	402.4	-	14	9.8	10.9	12.1	12.3	13.7	15.1	15.3	17	18.6	19.1	21.2	22.9		

Internal standard weight	Size\ pressure
0.25	6.40
0.4	6.50
0.61	6.63
0.875	6.75
1.235	6.90

**Description:**

Due to the greater satisfaction of customers, the company's 6 pressure pipes are also produced in the internal standard .with the description of the table opposite



National Standard 2-14427 of Iran ISO4065

	S8			S6.3			S5			S4			S3.2			S2.5		
	SDR 17			SDR 13.6			SDR 11			SDR 9			SDR 7.4			SDR 6		
	PN8			PN10			PN12.5			PN16			PN20			PN25		
	PN10			PN12.5			PN16			PN20			PN25			-		
	PN6			PN8			PN10			PN12.5			PN16			PN20		
	PN8			PN10			PN12.5			PN16			PN20			-		
	Nominal thick- ness(mm)		Weight per meter	Nominal thick- ness(mm)		Weight per meter	Nominal thick- ness(mm)		Weight per meter	Nominal thick- ness(mm)		Weight per meter	Nominal thick- ness(mm)		Weight per meter	Nominal thick- ness(mm)		Weight per meter
	emin	emax		emin	emax		emin	emax		emin	emax		emin	emax		emin	emax	
	-	-	-	-	-	-	-	-	-	2	2.3	0.084	2.3	2.7	0.107	3	3.4	0.115
	-	-	-	1.8	2	0.107	2	2.3	0.112	2.3	2.7	0.133	3	3.4	0.154	3.4	3.9	0.18
	-	-	-	2	2.3	0.144	2.3	2.7	0.171	3	3.4	0.2	3.5	4	0.24	4.2	4.8	0.278
	2	2.3	0.187	2.4	2.8	0.232	3	3.4	0.272	3.6	4.1	0.327	4.8	5.4	0.386	5.4	6.1	0.454
	2.4	2.8	0.295	3	3.5	0.356	3.7	4.2	0.43	4.5	5.1	0.509	5.5	6.2	0.6	6.7	7.5	0.701
	3	3.4	0.453	3.7	4.2	0.549	4.6	5.2	0.666	5.6	6.3	0.788	6.9	7.7	0.936	8.3	9.3	1.09
	3.8	4.3	0.721	4.7	5.3	0.873	5.8	6.5	1.05	7.1	8	1.26	8.6	9.6	1.47	10.5	11.7	1.73
	4.5	5.1	1.02	5.6	6.3	1.24	6.8	7.6	1.47	8.4	9.4	1.76	10.3	11.5	2.09	12.5	13.9	2.422
	5.4	6.1	1.46	6.7	7.5	1.77	8.2	9.2	2.12	10.1	11.3	2.54	12.3	13.7	3	15	16.7	3.51
	6.6	7.4	2.17	8.1	9.1	2.62	10	11.1	3.14	12.3	13.7	3.78	15.1	16.8	4.49	18.3	20.3	5.24
	7.4	8.3	2.76	9.2	10.3	3.37	11.4	12.7	4.08	14	15.6	4.87	17.1	19	5.77	20.8	23	6.75
	8.3	9.3	3.46	10.3	11.5	4.22	12.7	14.1	5.08	15.7	17.4	6.11	19.2	21.3	7.25	23.3	25.8	8.47
	9.5	10.6	4.52	11.8	13.1	5.5	14.6	16.2	6.67	17.9	19.8	7.96	21.9	24.2	9.44	26.6	29.4	11
	10.7	11.9	5.71	13.3	14.8	6.98	16.4	18.2	8.42	20.1	22.3	10.1	24.6	27.2	11.9	29.9	33	14
	11.9	13.2	7.05	14.7	16.3	8.56	18.2	20.2	10.4	22.4	24.8	12.4	27.4	30.3	14.8	33.2	36.7	17.2
	13.4	14.9	8.93	16.6	18.4	10.9	20.5	22.7	13.1	25.2	27.9	15.8	30.8	34	18.6	37.4	41.3	21.8
	14.8	16.4	11	18.4	20.4	13.4	22.7	25.1	16.2	27.9	30.8	19.4	34.2	37.8	23	41.5	45.8	27
	16.6	18.4	13.7	20.6	22.8	16.8	25.4	28.1	20.3	31.3	34.6	24.3	38.3	42.3	28.9	46.5	51.3	33.8
	18.7	20.7	17.4	23.2	25.7	21.2	28.6	31.6	25.6	35.2	38.9	30.8	43.1	47.6	36.5	52.3	57.7	42.7
	21.1	23.4	22.1	26.1	28.9	26.9	32.2	35.6	32.5	39.7	43.8	39.1	48.5	53.5	46.3	59	65	54.3
	23.7	26.2	28	29.4	32.5	34.1	36.3	40.1	41.3	44.7	49.3	49.6	54.7	60.3	58.8	-	-	-

**Description:**

The unit weight of the pipes is taken from the German DIN 8074 standard

The width of the detector bar for sizes larger than 315 is agreed between the customer and the manufacturer

Outside diameter : D (mm)	Pipe series : S	Pipe thicknes : e (mm)
Compressive category : PN (atm)	Reliability : sf	Diameter to thickness Ratio : SDR

## Polymer riser

Welded polyethylene fittings-Polymer riser			Standard DIN 16963
Number in the package	size(cm)	Outside diameter	Code No.
10	30cm	Polymer riser 2"	23756005
15	30cm	Polymer riser 11.2"	23756006
7	30cm	Polymer riser 3"	23756007
48	40cm	Polymer riser 1"	23766003
24	40cm	Polymer riser 11.2"	23766005
20	40cm	Polymer riser 2"	23766006
48	50cm	Polymer riser 1"	23776003
24	50cm	Polymer riser 11.2"	23776005
15	50cm	Polymer riser 2"	23776006
48	60cm	Polymer riser 1"	23786003
20	60cm	Polymer riser 11.2"	23786005
12	60cm	Polymer riser 2"	23786006
50	75cm	Polymer riser 1"	23796003
20	75cm	Polymer riser 11.2"	23796005
20	75cm	Polymer riser 2"	23796006
50	100cm	Polymer riser 1"	23816003
20	100cm	Polymer riser 11.2"	23816005
20	100cm	Polymer riser 2"	23816006
10	200cm	Polymer riser 1,1/2"	23876005
10	200cm	Polymer riser 2"	23876006

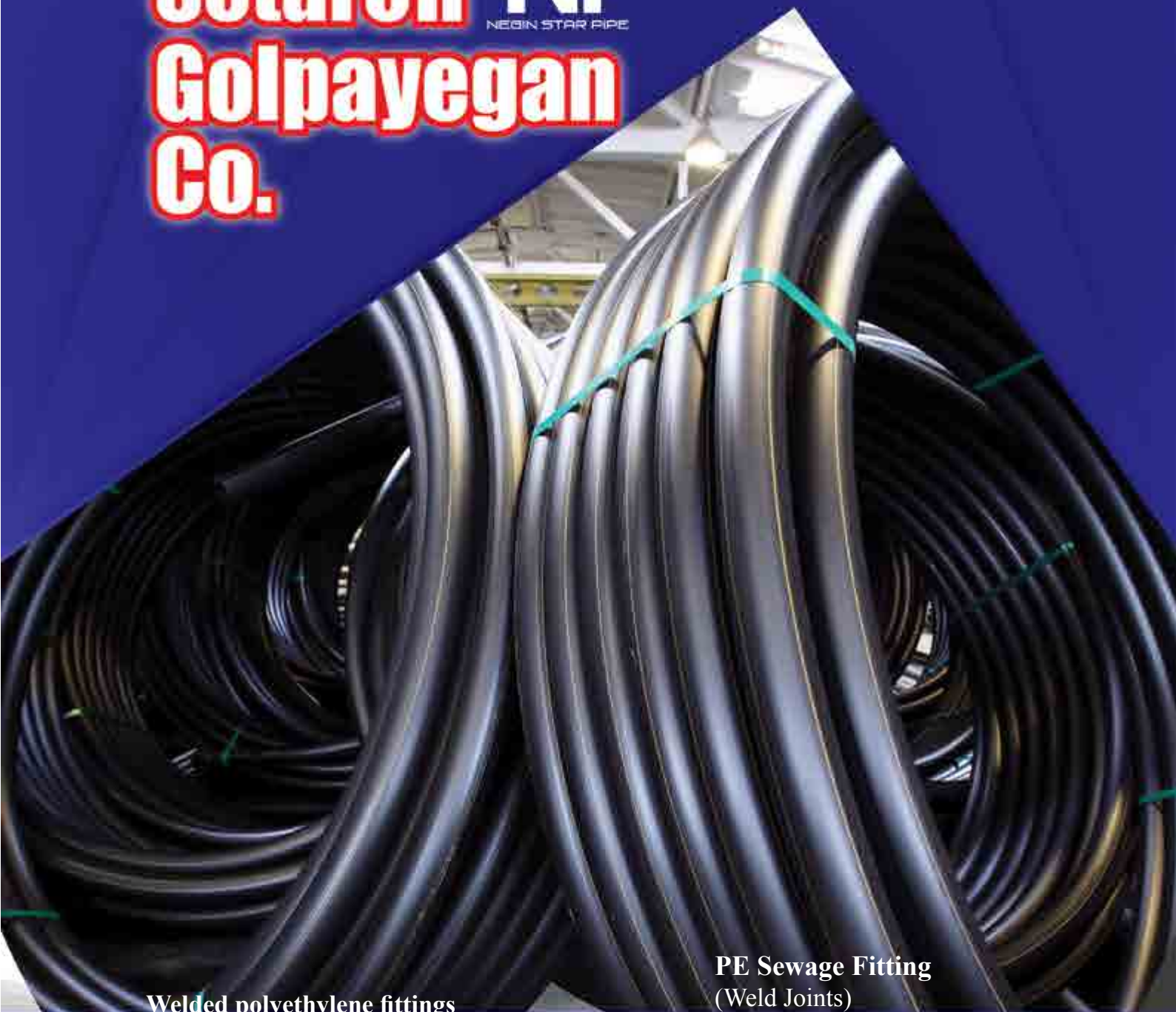
## Pasta pipe

Pasta pipe		
	size(mm)	Code No.
		21011318
		21012318

**Negin Setareh Golpayegan Co.**

# Negin Setareh Golpayegan Co.

**NR**  
NEGIN STAR PIPE



## **Welded polyethylene fittings**

## **PE Sewage Fitting (Weld Joints)**

Polyethylene pipes in different projects require polyethylene connections, which will vary depending on the type of project, and choosing the right connection alone requires experience with knowledge. All sewerage pipes and fittings of this group are produced with Golpayegan single star brand and agricultural and industrial welding fittings, drip irrigation and other fittings and accessories with Negin Setareh Golpayegan brand, under international standard DIN 16963 and the quality of products in the factory laboratory are tested.



### Welding elbow 45°

**Material:** HDPE heavy polyethylene

**Tolerable pressure:** 4 atmospheres

**Connection type:** welding



Welded polyethylene fittings -Welding elbow 45°		DIN 16963
No in the package	size(mm)	Code No.
150	50	27481125
80	63	27481126
40	75	27481127
25	90	27481128
15	110	27481129
12	125	27481130
5	160	27481132

### Welding elbow 90°

**Material:** HDPE heavy polyethylene

**Tolerable pressure:** 4 atmospheres

**Connection type:** welding



Welded polyethylene fittings - Welding elbow 90°		DIN 16963
No in the package	size(mm)	Code No.
170	50	27491125
90	63	27491126
45	75	27491127
30	90	27491128
16	110	27491129
9	125	27491130
4	160	27491132

### Welding Tee 45°

**Material:** HDPE heavy polyethylene

**Tolerable pressure:** 4 atmospheres

**Connection type:** welding



Welded polyethylene fittings - Welding Tee 45°		DIN 16963
No in the package	size(mm)	Code No. کد
40	50*50*50	27461125
30	63*63*63	27461126
18	75*75*75	27461127
12	90*90*90	27461128
8	110*110*110	27461129
4	125*125*125	27461130
2	160*160*160	27461132

### Welding tee 90°

**Material:** HDPE heavy polyethylene

**Tolerable pressure:** 4 atmospheres

**Connection type:** welding



Welded polyethylene fittings - Welding Tee 90°		DIN 16963
No in the package	size(mm)	Code No.
55	50*50*50	27431125
35	63*63*63	27431126
25	75*75*75	27431127
16	90*90*90	27431128
9	110*110*110	27431129
6	125*125*125	27431130
3	160*160*160	27431132

### Reducer tee 45°

**Material:** HDPE heavy polyethylene

**Tolerable pressure:** 4 atmospheres

**Connection type:** welding



Welded polyethylene fittings - Reducer Tee 45°		DIN 16963
No in the package	size(mm)	Code No.
18	75/63	27831156
13	90/63	27831157
13	90/75	27831158
9	110/63	27831159
8	75/110	27831160
8	90/110	27831161
4	125/110	27831165
3	160/125	27831171

### Reducer tee 90°

**Material:** HDPE heavy polyethylene

**Tolerable pressure:** 4 atmospheres

**Connection type:** welding



Welded polyethylene fittings - Reducer Tee 90°		DIN 16963
No in the package	size(mm)	Code No.
25	75/63	27841156
18	90/63	27841157
18	90/75	27841158
9	110/63	27841159
9	75/110	27841160
9	90/110	27841161
6	125/90	27841164
6	125/110	27841165
3	160/110	27841170
3	160/125	27841171

### Visitor valve

**Material:** HDPE heavy polyethylene

**Tolerable pressure:** 4 atmospheres

**Connection type:** welding



Welded polyethylene fittings -Visitor valve		DIN 16963
No in the package	size(mm)	Code No.
soon	63	27921126
48	110	27921129

### Test cap

**Material:** HDPE heavy polyethylene

**Tolerable pressure:** 4 atmospheres

**Connection type:** welding



Welded polyethylene fittings -Test cap		DIN 16963
No in the package	size(mm)	Code No.
700	50	27501125
500	63	27501126
350	75	27501127
250	90	27501128
100	110	27501129
60	125	27501130
50	160	27501132

### Pressure siphon 4

**Material:** HDPE heavy polyethylene

**Tolerable pressure:** 4 atmospheres

**Connection type:** welding



Welded polyethylene fittings - Pressure siphon 4		DIN 16963
No in the package	size(mm)	Code No.
50	50	27511125
30	63	27511126
15	75	27511127
9	90	27511128
4	110	27511129

### High pressure long siphon 4

**Material:** HDPE heavy polyethylene

**Tolerable pressure:** 4 atmospheres

**Connection type:** welding



Welded polyethylene fittings - High pressure long siphon 4		DIN 16963
No in the package	size(mm)	Code No.
	63	27521126
	75	27521127
	110	27521129
	110/125	27521165

### Long muff

**Material:** HDPE heavy polyethylene

**Oring material:** natural rubber with SBR

**Tolerable pressure:** 4 atmospheres

**Connection type:** welding



Welded polyethylene fittings - Long muff		DIN 16963
No in the package	size(mm)	Code No.
35	50	27441125
32	63	27441126
24	75	27441127
12	90	27441128
9	110	27441129
8	125	27441130
soon	160	27441132

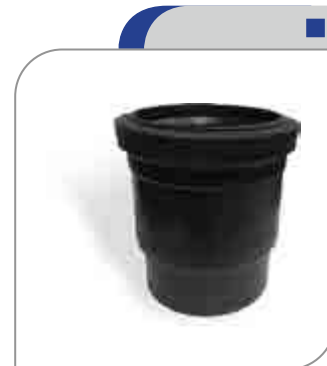
### Short muff

**Material:** HDPE heavy polyethylene

**Oring material:** natural rubber with SBR

**Tolerable pressure:** 4 atmospheres

**Connection type:** welding



Welded polyethylene fittings - Short muff		DIN 16963
No in the package	size(mm)	Code No.
70	50	27451125
40	63	27451126
30	75	27451127
20	90	27451128
15	110	27451129
12	125	27451130
soon	160	27451132



### Short pressure reducer 4

**Material:** HDPE heavy polyethylene

**Tolerable pressure:** 4 atmospheres

**Connection type:** welding

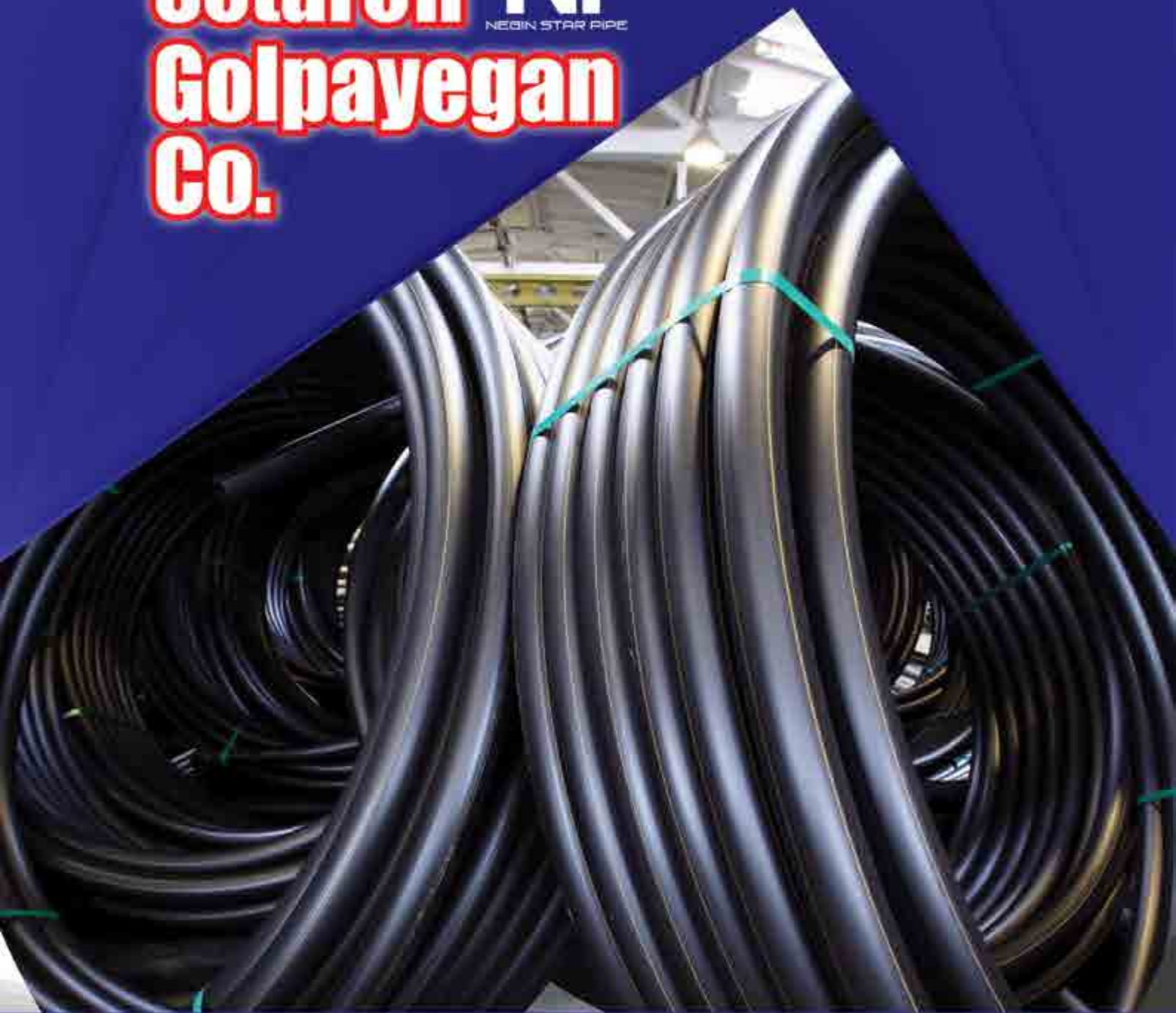


Welded polyethylene fittings-Short pressure reducer 4		DIN 16963
No in the package	size(mm)	Code No.
110	63/50	27471154
200	75/50	27471155
130	75/63	27471156
130	90/63	27471157
100	90/75	27471158
60	110/63	27471159
60	110/75	27471160
60	110/90	27471161
45	125/110	27471165
36	160/110	27471170
26	160/125	27471171

**Negin Setareh Golpayegan Co.**

**Negin  
Setareh  
Golpayegan  
Co.**

**NP**  
NEGIN STAR PIPE



**High pressure welding fittings**

**Industrial / Agricultural**

## Long base flange and flange

**Connection type:** welding

**Tolerable pressure:** 10.6 atmospheres

Welding flanges are made of polyethylene (HDPE pipe grade), which is a material resistant to chemical solutions, acids and bases.

All flanges are manufactured in accordance with DIN 16963 and P80 and P100 raw materials



High pressure Welding fittings - Long base flange and flange			Standard DIN 16963	
No in the package	Bearable pressure	size(mm)	Fittings group	Code No.
50	6	63	Long base flange	26221126
50	10	63		26231126
50	16	63		26241126
24	6	75		26221127
24	10	75		26231127
24	16	75		26241127
16	6	90		26221128
16	10	90		26231128
16	16	90		26241128
20	6	110	Flange	26221129
20	10	110		26231129
18	6	125		26221130
18	10	125		26231130
9	6	160		26221132
9	10	160		26231132
9	16	160		26241132
5	6	200		26221134
5	10	200		26231134
12	6	225		26221135
4	6	250		26221136
10	10	250		26231136
6	6	315		26221138
6	10	315		26231138
1	6	355		26221139
1	10	355		26231139
1	6	400		26221140
1	10	400		26231140

### High pressure welding reducer

**Material:** HDPE heavy polyethylene

**Tolerable pressure:** 10.6 atmospheres

**Connection type:** welding SDR-11,17

**Raw materials:** PE80 / PE100



High pressure Welding fittings-Welding reducer			Standard DIN 16963
No in the package	Bearable pressure	size(mm)	Code No.
soon	6	75*50	26281155
soon	10	75*50	26291155
soon	6	75*63	26281156
soon	10	75*63	26291156
40	6	90*63	26281157
20	10	90*63	26291157
20	6	90*75	26281158
20	10	90*75	26291158
24	6	110*63	26281159
24	10	110*63	26291159
24	6	110*75	26281160
24	10	110*75	26291160
24	6	110*90	26281161
24	10	110*90	26291161
18	6	125*63	26281162
18	10	125*63	26291162
18	6	125*75	26281163
18	10	125*75	26291163
18	6	125*90	26281164
18	10	125*90	26291164
12	6	125*110	26281165
12	10	125*110	26291165
12	6	160*90	26281169
12	10	160*90	26291169
12	6	160*110	26281170
12	10	160*110	26291170
12	6	160*125	26281171

High pressure Welding fittings-Welding reducer			Standard DIN 16963
No in the package	Bearable pressure	size(mm)	Code No.
12	10	160*125	26291171
24	6	200*90	26281178
24	10	200*90	26291178
24	6	200*110	26281179
24	10	200*110	26291179
24	6	200*125	26281180
24	10	200*125	26291180
24	6	200*160	26281182
24	10	200*160	26291182
18	6	225*110	26281149
18	10	225*110	26291149
18	6	225*125	26281150
18	10	225*125	26291150
18	6	225*160	26281183
18	10	160*225	26291183
18	6	225*200	26281185
18	10	225*200	26291185
24	6	250*125	26281187
24	10	250*125	26291187
14	6	250*160	26281188
14	10	250*160	26291188
14	6	250*200	26281189
14	10	250*200	26291189
14	6	315*160	26281197
14	10	315*160	26291197
10	6	315*200	26281199
10	10	315*200	26291199
10	6	315*225	26281129
10	10	315*225	26291129
10	6	315*225	26281200
10	10	315*250	26291200
4	6	355*160	26281201
4	10	355*160	26291201
4	6	355*200	26281202
4	10	355*200	26291202
4	6	355*250	26281203
4	10	355*250	26291203
4	6	355*315	26281204
4	10	355*315	26291204
4	6	400*200	26281205
4	10	400*200	26291205
4	6	400*250	26281206
4	10	400*250	26291206
4	6	400*315	26281207
4	10	400*315	26291207
2	6	400*355	26281208
2	10	400*355	26291208

### High pressure welding cap

**Material:** HDPE heavy polyethylene

**Tolerable pressure:** 16.10 atmospheres

**Connection type:** welding SDR-11,17

**Raw materials:** PE80/PE100



High pressure Welding fittings-High pressure welding cap			Standard DIN 16963
No in the package	Bearable pressure	size(mm)	Code No.
15	10	160	26381132
soon	16	160	26391132
soon	10	200	26381134
soon	16	200	26391134
soon	10	225	26381135
soon	16	225	26391135
soon	10	250	26381136
soon	16	250	26391136
soon	10	315	26381137
soon	16	315	26391137

High pressure Welding fittings-High pressure welding cap			Standard DIN 16963
No in the package	Bearable pressure	size(mm)	Code No.
soon	10	63	26381126
soon	16	63	26391126
100	10	75	26381127
100	16	75	26391127
soon	10	90	26381128
soon	16	90	26391128
26	10	110	26381129
soon	16	110	26391129
22	10	125	26381130
soon	16	125	26391130

### High pressure tee 90°

**Material:** HDPE heavy polyethylene

**Tolerable pressure:** 10.6 atmospheres

**Connection type:** welding SDR-11,17

**Raw materials:** PE80 / PE100



High pressure Welding fittings-High pressure tee 90°			Standard DIN 16963
No in the package	Bearable pressure	size(mm)	Code No.
4	6	200	26401134
4	10	200	26411134
3	6	225	26401135
3	10	225	26411135
3	6	250	26401136
3	10	250	26411136

High pressure Welding fittings-High pressure tee 90°			Standard DIN 16963
No in the package	Bearable pressure	size(mm)	Code No.
20	6	110	26401129
20	10	110	26411129
15	6	125	26401130
15	10	125	26411130
6	6	160	26401132
6	10	160	26411132



### High pressure welding elbow 45°

**Material:** HDPE heavy polyethylene

**Tolerable pressure:** 10.6 atmospheres

**Connection type:** welding SDR-11,17

**Raw materials:** PE80 / PE100



High pressure Welding fittings-High pressure welding elbow 45°			Standard DIN 16963
No in the package	Bearable pressure	size(mm)	Code No.
8	6	200	26311134
8	10	200	26321134
soon	6	225	26311135
soon	10	225	26321135
4	6	250	26311136
4	10	250	26321136

High pressure Welding fittings-High pressure welding elbow 45°			Standard DIN 16963
No in the package	Bearable pressure	size(mm)	Code No.
30	6	110	26311129
30	10	110	26321129
25	6	125	26311130
25	10	125	26321130
15	6	160	26311132
12	10	160	26321132

### High pressure welding elbow 90°

**Material:** HDPE heavy polyethylene

**Tolerable pressure:** 10.6 atmospheres

**Connection type:** welding SDR-11,17

**Raw materials:** PE80 / PE100



High pressure Welding fittings - High pressure welding elbow 90°			DIN 16963
No in the package	Bearable pressure	size(mm)	Code No.
25	6	110	26341129
25	10	110	26351129
20	6	125	26341130
20	10	125	26351130
10	6	160	26341132
10	10	160	26351132
6	6	200	26341134
6	10	200	26351134
soon	6	225	26341135
soon	10	225	26351135
3	6	250	26341136
3	10	250	26351136



## Welding Reducer Tee

**Material:** HDPE heavy polyethylene

**Tolerable pressure:** 10.6 atmospheres

**Connection type:** welding SDR-11,17

**Raw materials:** PE80\ PE110



High pressure Welding fittings - Welding Reducer Tee			DIN 16963
No in the package	Bearable pressure	size	Code No.
20	6	110*75*110	26251249
20	10	110*75*110	26261249
20	6	110*90*110	26251250
20	10	110*90*110	26261250
15	6	125*75*125	26251253
15	10	125*75*125	26261253
15	6	125*90*125	26251254
15	10	125*90*125	26261254
15	6	125*110*125	26251255
15	10	125*110*125	26261255
8	6	160*90*160	26251260
8	10	160*90*160	26261260
8	6	160*110*160	26251261
8	10	160*110*160	26261261
8	6	160*125*160	26251262
8	10	160*125*160	26261262
6	6	200*90*200	26251270
6	10	200*90*200	26261270
6	6	200*110*90	26251271
6	10	200*110*90	26261271
6	6	200*110*200	26251271
6	6	200*125*200	26251272
4	6	200*160*200	26251274
4	10	200*160*200	26261274
4	6	250*160*250	26251278
4	10	250*160*250	26261278
3	6	250*200*250	26251280
3	10	250*200*250	26261280

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## (Screw Fittings) Threaded, gear (Compression Fittings for pe Pipes)

### Polystyrene Core

**Material:** polystyrene

**Tolerable pressure:** 10 atmospheres

**Connection type:** screw



Screw Fittings - Polystyrene Core			DIN 16963
No in the package	size(mm)	Fittings group	Code No.
1500	1/2	Core PN=10	25191001
750	3/4		25191002
500	1		25191003
300	1,1/4		25191004
220	1,1/2		25191005
140	2		25191006
soon	2,1/2		25191018
soon	3		25191019
soon	4		25191020

### Male tee

**Material:** polystyrene

**Tolerable pressure:** 10 atmospheres

**Connection type:** screw



Screw Fittings - Male Tee		DIN 16963
No in the package	Outside diameter	Code No.
100	20*1/2	23101019
75	25*3/4	23101021
48	32*1	23101025
25	40*1,1/4	23101029
17	50*1,1/2	23101033
8	63*2	23101040
6	75*2,1/2	23101047
soon	90*3"	23101055
soon	110*4"	23101066

### Female fitting

**Material:** polystyrene

**Tolerable pressure:** 10 atmospheres

**Connection type:** screw



Screw Fittings - Female Fitting		DIN 16963
No in the package	Outside diameter	Code No.
250	20*1/2	23011019
160	25*3/4	23011021
110	32*1	23011025
60	40*1,1/4	23011029
40	50*1,1/2	23011030
27	63*2	23011040
14	75*2	23011046
14	75*2,1/2	23011047
soon	90*2	23011053
10	90*2,1/2	23011054
10	90*3	23011055
6	110*3	23011065
6	110*4	23011066

### Male fitting

**Material:** polystyrene

**Tolerable pressure:** 10 atmospheres

**Connection type:** screw



Screw Fittings - Male Fitting		DIN 16963
No in the package	Outside diameter	Code No.
200	20*1/2	23021019
150	25*3/4	23021021
100	32*1	23021025
52	40*1,1/4	23021029
36	50*1,1/2	23021033
20	63*2	23021040
12	75*2,1/2	23021047
soon	90*2	23021053
10	90*2,1/2	23021054
10	90*3	23021055
6	110*3	23021065
6	110*4	23021066

## Elbow

**Material:** polystyrene

**Tolerable pressure:** 10 atmospheres

**Connection type:** screw



Screw Fittings - Elbow		DIN 16963
No in the package	Outside diameter	Code No.
130	20	23051121
100	25	23051122
55	32	23051123
30	40	23051124
20	50	23051125
9	63	23051126
6	75	23051127
soon	90	23051128
soon	110	23051129

## Connector

**Material:** polystyrene

**Tolerable pressure:** 10 atmospheres

**Connection type:** screw



Screw Fittings - Connector		DIN 16963
No in the package	Outside diameter	Code No.
140	20	23031121
100	25	23031122
65	32	23031123
36	40	23031124
24	50	23031125
12	63	23031126
9	75	23031127
6	90	23031128
3	110	23031129

## Reducer

**Material:** polystyrene

**Tolerable pressure:** 10 atmospheres

**Connection type:** screw



Screw Fittings - Reducer		DIN 16963
No in the package	Outside diameter	Code No.
120	25*20	23041145
85	32*20	23041146
80	32*25	23041147
60	40*25	23041148
56	40*32	23041149
32	50*32	23041150
28	50*40	23041151
18	63*40	23041153
18	63*50	23041154
12	75*50	23041155
12	75*63	23041156
8	90*63	23041157
6	90*75	23041158
5	110*75	23041160
5	110*90	23041161

## End Cap

**Material:** polystyrene

**Tolerable pressure:** 10 atmospheres

**Connection type:** screw



Screw Fittings - End Cap		DIN 16963
No in the package	Outside diameter	Code No.
140	32	23131123
70	40	23131124
45	50	23131125
32	63	23131126
18	75	23131127
10	90	23131128
6	110	23131129

### Female elbow

**Material:** polystyrene

**Tolerable pressure:** 10 atmospheres

**Connection type:** screw



Screw Fittings - Female elbow		DIN 16963
No in the package	Outside diameter	Code No.
25	50*1,1/2	23061033
16	63*2	23061040
9	75*2,1/2	23061047
soon	90*3	23061055
soon	110*4	23061066

### Male elbow

**Material:** polystyrene

**Tolerable pressure:** 10 atmospheres

**Connection type:** screw



Screw Fittings - Male elbow		DIN 16963
No in the package	Outside diameter	Code No.
220	20*1/2	23071019
150	25*3/4	23071021
90	32*1	23071025
48	40*1,1/4	23071029
32	50*1,1/2	23071033
18	63*2	23071040
9	75*2,1/2	23071047
soon	90*3	23071055
soon	110*4	23071066



### Equal tee

**Material:** polystyrene

**Tolerable pressure:** 10 atmospheres

**Connection type:** screw



Screw Fittings - Equal Tee		DIN 16963
No in the package	Outside diameter	Code No.
80	20	23081121
55	25	23081122
32	32	23081123
18	40	23081124
12	50	23081125
6	63	23081126
4	75	23081127
soon	90	23081128
soon	110	23081129

### Female tee

**Material:** polystyrene

**Tolerable pressure:** 10 atmospheres

**Connection type:** screw



Screw Fittings - Female Tee		DIN 16963
No in the package	Outside diameter	Code No.
120	20*1/2	23091215
80	25*3/4	23091217
56	32*1	23091220
32	40*1,1/4	23091222
20	50*1,1/2	23091224
12	63*2	23091227
6	75*2	23091228
6	75*2,1/2	23091229
soon	90*2	23091230
soon	90*2,1/2	23091231
soon	90*3	23091232
soon	110*3	23091233
soon	110*4	23091234

## Reducer tee

**Material:** polystyrene

**Tolerable pressure:** 10 atmospheres

**Connection type:** screw



Screw Fittings - Reducer Tee		DIN 16963
No in the package	Outside diameter	Code No.
60	25*20*25	13111145
44	32*20*32	23111146
44	32*25*32	23111147
25	40*25*40	23111148
20	40*32*40	23111149
14	50*32*50	23111150
14	50*40*50	23111151
8	63*40*63	23111153
8	63*50*63	23111154
5	75*50*75	23111155
5	75*63*75	23111156
soon	90*63*90	23111157
soon	90*75*90	23111158
soon	110*63*110	23111159
soon	110*75*110	23111160
soon	110*90*110	23111161

## Flanged fitting

**Material:** polystyrene

**Tolerable pressure:** 10 atmospheres

**Connection type:** flanged screw



Screw Fittings - Flanged Fitting		DIN 16963
No in the package	Outside diameter	Code No.
soon	63	soon
soon	75	soon
soon	90	soon
soon	110	soon

## Bushing

**Material:** polystyrene

**Tolerable pressure:** 10 atmospheres

**Connection type:** screw



Screw Fittings - Bushing		DIN 16963
No in the package	Outside diameter	Code No.
100	20	23721121
100	25	23721122
70	32	23721123
60	40	23721124
60	50	23721125
50	63	23721126
50	75	23721127
40	90	23721128
30	110	23721129

## Oring

**Material:** rubber

**Tolerable pressure:** 10 atmospheres

**Connection type:** flanged screw



Screw Fittings - Oring		DIN 16963
No in the package	Outside diameter	Code No.
1000	20	23731121
1000	25	23731122
1000	32	23731123
500	40	23731124
500	50	23731125
500	63	23731126
500	75	23731127
400	90	23731128
300	110	23731129

### Adapter

**Material:** polystyrene

**Tolerable pressure:** 10 atmospheres

**Connection type:** screw



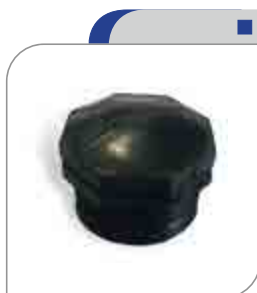
Screw Fittings - Adapter		DIN 16963
No in the package	Outside diameter	Code No.
100	20	23741121
100	25	23741122
70	32	23741123
60	40	23741124
60	50	23741125
50	63	23741126
40	75	23741127
30	90	23741128
15	110	23741129

### Gear cap

**Material:** polystyrene and polypropylene

**Tolerable pressure:** 10 atmospheres

**Connection type:** screw



Screw Fittings - Gear Cap		DIN 16963
No in the package	Outside diameter	Code No.
450	1,1/4	25171004
220	1,1/2	25171005
200	2	25171006

### Split ring

**Material:** polystyrene

**Tolerable pressure:** 10 atmospheres

**Connection type:** screw



Screw Fittings - Split ring		DIN 16963
No in the package	Outside diameter	Code No.
100	20	23711121
100	25	23711122
70	32	23711123
60	40	23711124
60	50	23711125
50	63	23711126
50	75	23711127
40	90	23711128
30	110	23711129

## Saddles

### Split Belt

**Material:** polypropylene copolymer

**Tolerable pressure:** 10 atmospheres

**Connection type:** oring



The branch belt has a different structure than the screw and welded joints of the building and consists of two main parts, the floor and the branch. Both parts are made of polypropylene copolymer. Depending on their size, split belts may have two, four, six or eight metal bolts. The splice belt is sealed with a rubber o-ring.

Split Belt		standard DIN 16963	Split Belt		standard DIN 16963	Split Belt		standard DIN 16963
No in th package	size	Code No.	No in th package	size	Code No.	No in th package	size	Code No.
24	125*2	24141072	70	75*1	24141043	250	25*1/2	24141020
20	125*2,1/2	24141073	48	75*1,1/4	24141044	250	25*3/4	24141021
10	160*1	24141085	48	75*1,1/2	24141045	170	32*1/2	24141023
10	160*1,1/4	24141086	48	75*2	24141046	170	32*3/4	24141024
10	160*1,1/2	24141087	33	90*1/2	24141048	170	32*1	24141025
10	160*2	24141088	33	90*3/4	24141049	100	40*1/2	24141026
10	160*3	24141089	33	90*1	24141050	100	40*3/4	24141027
10	160*4	24141090	30	90*1,1/4	24141051	100	40*1	24141028
10	160*2,1/2	24141091	30	90*1,1/2	24141052	80	40*1,1/4	24141029
8	200*2,1/2	24141092	30	90*2	24141053	80	50*1/2	24141030
8	200*1	24141099	27	110*1/2	24141059	80	50*3/4	24141031
8	200*1,1/4	24141100	27	110*3/4	24141060	80	50*1	24141032
8	200*1,1/2	24141101	27	110*1	24141061	80	50*1,1/2	24141033
8	200*2	24141102	27	110*1,1/4	24141062	80	50*1,1/4	24141034
8	200*3	24141103	27	110*1,1/2	24141063	84	63*1/2	24141035
8	200*4	24141104	27	110*2	24141064	84	63*3/4	24141036
5	250*2	24141110	25	110*2,1/2	24141065	84	63*1	24141037
5	250*3	24141111	24	125*1/2	24141067	54	63*1,1/4	24141038
5	250*4	24141112	24	125*3/4	24141068	54	63*1,1/2	24141039
soon	315*2"	24141120	24	125*1	24141069	54	63*2	24141040
soon	315*3"	24141121	24	125*1,1/4	24141070	70	75*1/2	24141041
soon	315*4"	24141122	24	125*1,1/2	24141071	70	75*3/4	24141042

## Brass bifurcation Belt

**Material:** polystyrene

**Tolerable pressure:** 10 atmospheres

**Connection type:** screw



Brass bifurcation Belt			DIN 16963
No in th package	Bearable pressure	Product	Code No.
33	90*1	brass bifurcation saddle	24151050
27	110*1/2		24151059
27	110*3/4		24151060
27	110*1		24151061
24	125*1/2		24151067
24	125*3/4		24151068
24	125*1		24151069
10	160*1/2		24151083
10	160*3/4		24151084
10	160*1		24151085
8	200*1/2		24151097
8	200*3/4		24151098
8	200*1		24151099

Brass bifurcation Belt			DIN 16963
No in th package	Bearable pressure	Product	Code No.
170	32*1/2	brass bifurcation saddle	24151023
170	32*3/4		24151024
100	40*1/2		24151026
100	40*3/4		24151027
80	50*1/2		24151030
80	50*3/4		24151031
84	63*1/2		24151035
84	63*3/4		24151036
84	63*1		24151037
70	75*1/2		24151041
70	75*3/4		24151042
70	75*1		24151043
33	90*1/2		24151048
33	90*3/4		24151049

## Two branches Belt

**Material:** polystyrene and polypropylene

**Tolerable pressure:** 10 atmospheres

**Connection type:** screw



Two branches Belt			DIN 16963
No in th package	Bearable pressure	Product	Code No.
250	40*1/2	two branches saddle	24881026
20	90*2		24881053
17	110*1		24881061
24	125*1		24881065
24	125*3/4		24881068
17	110*3/4		24881069
10	160*2		24881088
5	160*3		24881089



## Drip irrigation fittings

### 16 mm tee

16mm tee			DIN 16963
No in th package	size(mm)	Bearable pressure	Code No.
1000	16	16mm tee	28581316



### 16 mm connector

16mm connector			DIN 16963
No in th package	size(mm)	Bearable pressure	Code No.
2000	16	16mm connector	28031316



### 16 mm end clamp

16mm end clamp			DIN 16963
No in th package	size(mm)	Bearable pressure	Code No.
1500	16	16mm end clamp	28611316



### Brigade to brigade interface

Drip irrigation fittings - Brigade to brigade interface			DIN 16963
No in th package	size(mm)	Product	Code No.
600	tape-tape	Brigade to brigade interface	28031312



### Tip interface to elementary clamp 5

Drip irrigation fittings - Tip interface to elementary clamp 5			DIN 16963
No in th package	size(mm)	Product	Code No.
750	tape-5/8	Tip interface to elementary clamp 5	28031315



### Draper tee

Drip irrigation fittings - Draper tee			DIN 16963
No in th package	size(mm)	Product	Code No.
1000	16	Draper tee	28681316



### Tip interface to hose head

Drip irrigation fittings-Tip interface to hose head		DIN 16963
No in th package	Product	Code No.
750	Tip interface to hose head	28031313



## Drippers

### Dripper on line

**Material:** polystyrene

**Connection type:** Compression punch

**Connection type:** 4 and 8 L / H

**Tolerable pressure:** 1 atmosphere

Drippers - Dripper on line		DIN 16963
Number in the box	size (lit/h)	Code No.
5000	4	28641319
2500	8	28641320



### Elementary clamp

**Material:** polyethylene

**Connection type:** Compression punch

Drippers - Elementary clamp		DIN 16963
Number in the box	size (mm)	Code No.
2500	16*5/8	28561311
3000	16*3/8	28561315
soon	6	28561318



### Drop elbow

Drippers - Drop elbow		DIN 16963
Number in the box	size (mm)	Code No.
2000	16	28571316



## Compact Cylinder Valve

### Branch valve 16\*1/2

**Material:** polypropylene copolymer

**Connection type:** screw, push

**With silicone oring**

Compact valves - Branch valve 16*1/2		DIN 16963
Number in the box	size (mm)	Code No.
350	1/2	28551314
500	1/2-16mm	28551302
400	1/2-1/2	28551303
500	16mm-16mm	28551305
400	16mm-5/8	28551307
400	tape-16mm	28551310
500	16mm-5/8	28551311
350	tape-tape	28551312
350	tape-1/2	28551314



### Hose head 16\*1/2

**Material:** polypropylene copolymer

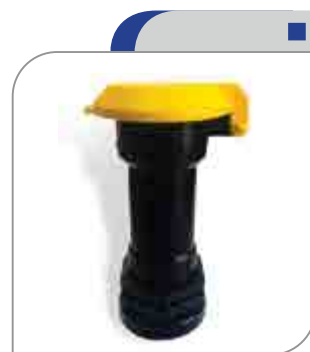
**Connection type:** threaded, compression

Compact valves - Hose head 16*1/2		DIN 16963
Number in the box	size (mm)	Code No.
1750	16*1/2	28591302



### Automatic tap

Compact valves - Automatic tap		DIN 16963
Number in the box	size (mm)	Code No.
30	1,1/2	28701005
20	2	28701006



## Drop elbow

Drip irrigation tape - Drop elbow		DIN 16963
size (m)	size (cm)	Code No.
1000	10	98041001
1000	20	98041002
1000	30	98041003




گروه صنعتی تک ساره گلبایگان

کد محصول: TA - 175

نام محصول: نوار آبیاری قطره ای

تاریخ تولید: ۱۳۹۴/۱۲/۲۵

تاریخ انقضا: ۱۳۹۵/۱۲/۲۵

ابعاد: ۱۰ متر، ۲۰ متر، ۳۰ متر

قطر داخلی: ۱۶/۵ میلی متر

قطر خارجی: ۱۲/۵ میلی متر




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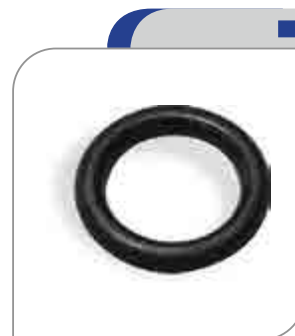
قطر داخلی: ۱۶/۵ میلی متر

قطر خارجی: ۱۲/۵ میلی متر

Negin Setareh Golpayegan Co.

## Oring belt

Accessories - Oring belt		DIN 16963
Number in the box	size (mm)	Code No.
2000	Pistwar 25	98821341
500	(28*4/5)32	98821342
1000	(35*5)40	98821343
1000	(35*5)50	98821344
1000	(45*5)2*50	98821345
1000	(35*5)63	98821346
250	(55*5)2*63	98821347
1000	(33*5)75	98821348
250	(55*5)2*75	98821349
1000	(33*5)90	98821350
250	(55*5)2*90	98821351
1000	(33*5)110	98821352
250	(55*5)2*110	98821353
1000	(35*5)125	98821354
250	(55*5)2*125	98821355



## Oring

Oring			DIN 16963
Number in the box	size (mm)	Product	Code No.
3000	16	Rubber bellow	98601316
1000		combo type washer	98601318
1000	5/8	Rubber bellow	98651317





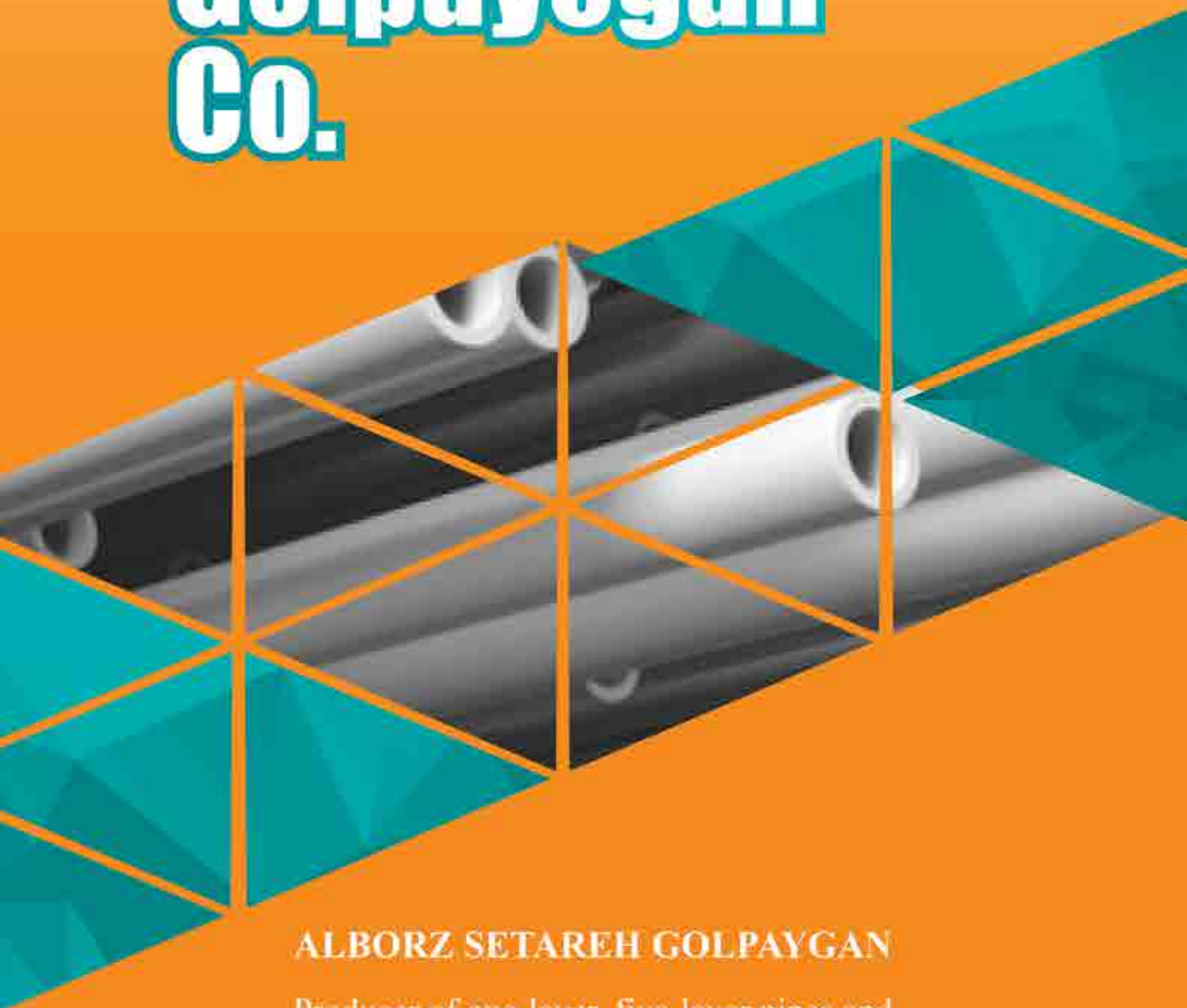
**the following points are recommended to esteemed polyethylene operators: (Construction sewage network)**

- The presence of dust on the polyethylene causes the welding to not be done well, so it is recommended that the parts be completely clean and free of any impurities during execution.
- The use of welding machine is recommended in terms of having a clamp and lathe for ease and speed in execution. Set the welding machine to the desired temperature ° 200-230 C and wait until the welding plate is fully heated.
- After installing each component, be sure to use the test cap to prevent foreign objects from entering the system.
- After welding, protect the weld from any tension and impact for 10 minutes.
- The proper slope for horizontal pipes is very important.
- Piping should be done with the least twist and in the shortest possible way.
- Appropriate fasteners and supports should be used to control the system in principle.
- In parts where the system components pass under the ceilings for construction purposes, the distance to the ceiling should be reduced as much as possible.
- Pay attention to the beauty of the work on the roads that have no cover.
- After finishing the work, be sure to test the system to ensure proper execution.
- If you use a welding machine, please pay attention to the recommendations of the manufacturer.



Negin Setareh Golpayegan Co.

# Alborz Setareh Golpayegan Co.



**ALBORZ SETAREH GOLPAYGAN**

Producer of one-layer, five-layer pipes and fittings, sewer push fit, types of hoses and nylon

# Alborz Setareh Golpayegan Co.



**Push- fit pipe and fittings**  
**Sewage pp**



### PPRC type 3

Metal pipes have been used as one of the water transfer solutions in buildings for a long time. The advantages of these pipes can be high pressure and temperature tolerance and high mechanical resistance, fire resistance, low longitudinal expansion coefficient, cheap. He noted the presence of fittings and 100% oxygen impermeability, but the disadvantages of these pipes made them feel the need to replace them, disadvantages such as corrosion and rust, length, short life, scalability, lack of ductility, high weight, unevenness of internal surfaces (high pressure drop), difficult and time consuming installation and lack of aesthetics for surface installation, which was eliminated with the arrival of the new generation of pipes. Among the materials that have replaced metals, we can mention polymeric materials, one of the best of which is polypropylene. This material also has different grades, which according to

size (mm)	Code No.
20	31110001
25	31110002
32	31110003
40	31110004
50	31110005
63	31110006
75	31110007

the German DIN8078 standard, the best and most desirable, which has both impact resistance, high flexibility and long thermal resistance and is health-approved, (PPRC) TYPE3 or random polypropylene copolymer type Is the third. The raw materials used by this company are the highest quality materials produced by foreign and domestic companies and are approved by international and national standards of Iran in terms of health and technology. The company has been able to evaluate and validate its products by quality control

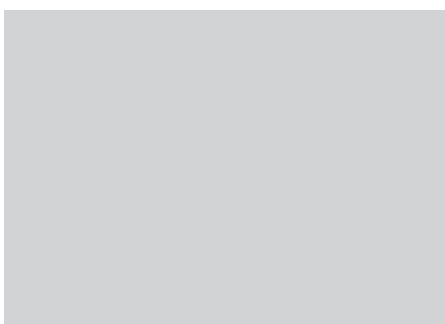
experts and guarantee the quality of the products with a lifespan of five-layer pipes of 50 years and single-layer pipes of 10 years by issuing a quality certificate of the product. In order to honor the demands of dear customers, the esteemed management of Golpayegan's Tak Setareh Industrial Group from the first half of 1394, along with the production of single-layer pipes and fittings with Korean materials, the production of these products with Iranian quality materials is on the agenda of Alborz Setareh Company. As in the past, the product portfolio is fully available to all the needs of society in this field.



**Alborz Setareh Golpayegan Co.**

### Indications

- Hot and cold water installation systems for drinking
- Central heating and air conditioning boiler installations
- Used as a riser in buildings
- Heating facilities
- Cooling facilities



### Advantages of PPRC pipes and fittings of Alborz Setareh Golpayegan Company (Nivan Pipe)

- low weight
- Resistance to corrosion, rust and rot
- Lack of sediment and mass formation inside the pipe due to the inner polished surface of the pipe
- Hygienic without changing the color and smell of water
- Very fast and easy installation method
- Very little friction and therefore no pressure drop
- Optimal quality and long life
- 1 BAR = 0.986 Atmospher > 10 bar pressure tolerance
- Reducing initial costs
- Reducing maintenance costs
- Variety in connections
- Eco-friendly
- Has a health certificate from the Food and Drug Administration No. 15/15040
- Has a certificate of approval from the Housing and Building Research Center of the Ministry of Roads and Urban Development.
- Method of connecting pipes and PPRC fittings of Alborz Setareh Golpayegan Company (Nivan Pipe)

### Nivan Pipe PPRC Welding Guide Table

- Pipes should be cut perpendicular to the axis of the pipe and only with special scissors.
- The welding area should be completely free of any dirt, creases and grease.
- Preheat the welding machine to 260 ° C and use a standard clean welding mold.
- After adjusting the ironing temperature, press the pipe and connection into the Teflon molds at the same time until it reaches the end. (Note that the best ambient temperature for welding is 25 to 30 degrees Celsius. Due to the presence of non-standard welding machines in the market, to perform welding machines provided by Alborz Setareh Golpayegan Company or to ensure its correct operation It is necessary to calibrate the welding machine
- Submit the temperature to Alborzstareh Golpayegan Company and receive its calibration certificate).
- After the heating time has elapsed, remove the pipe and connection from the mold quickly and without rotation, and immediately press the pipe into the connection to the specified welding depth and keep it in the same position.
- Observe the cooling time. (According to the table below)

### the following points are essential in carrying out this process

- The heating time according to the welding guide table starts when the pipe and connection reach the end of the mold.
- Avoid closing large molds on the front of the machine separately and always attach large molds to the rear hole of the machine.
- The mold must always be attached to the machine in such a way that there is complete contact between the mold and the element.
- Clean the machine and molds with a coarse cloth and alcohol as burnt particles will cause incomplete welding.
- Setting the device to a temperature of 260 ° C is required and more or less heat will cause the destruction of polymer molecules and lack of fusion, respectively.
- Never use water to cool the appliance as the thermostat of the appliance will be damaged.

Do not use greasy, cracked or dirty pipes and fittings				
Cooling time(min)	Welding time(s)	Heating time(s)	Welding depth(mm)	outside diameter(mm)
2	4	5	14	20
2	4	7	15	25
4	6	8	16.5	32
4	6	12	18	40
4	6	18	20	50
6	8	24	24	63
6	8	30	25	75



# Alborz Setareh Golpayegan Co.



PPRC type 3



## Socket



One - layer fittings-Socket	
size (mm)	Code No.
20	31211101
25	31211102
32	31211103
40	31211104
50	31211105
63	31211106

## Reducer socket



One - layer fittings-Reducer socket	
size (mm)	Code No.
20-25	31211201
20-32	31211202
25-32	31211203
25-40	31211205
32-40	31211206
32-50	31211208
40-50	31211209
40-63	31211212
50-63	31211213

**Alborz Setareh Golpayegan Co.**

### Direct fitting of the socket

One-layer fittings - Direct fitting of the socket	
size (mm)	Code No.
20-1/2"	31211301
25-1/2"	31211302
25-3/4"	31211303
32-3/4"	31211304
32-1"	31211305
40-1,1/4"	31211306
50-1,1/2"	31211307
63-2"	31211308



### Direct fitting of brain

One-layer fittings - Direct fitting of brain	
size (mm)	Code No.
20-1/2"	31211401
25-1/2"	31211402
25-3/4"	31211403
32-1"	31211404
40-1,1/4"	31211405
50-1,1/2"	31211406
63-2"	31211407



### Reducer elbow

One-layer fittings - Reducer elbow	
size (mm)	Code No.
20-25	31212301
25-32	31212302



### 45° elbow

One - layer fittings - 45° elbow	
size (mm)	Code No.
20	31212201
25	31212202
32	31212203



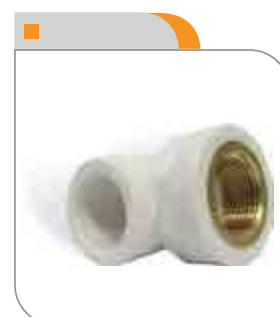
### 90° elbow

One-layer fittings - 90° elbow	
size (mm)	Code No.
20	31212101
25	31212102
32	31212103
40	31212104
50	31212105
63	31212106



### Direct elbow socket

One-layer fittings - Direct elbow socket	
size (mm)	Code No.
20-1/2"	31212601
20-3/4"	31212602
25-1/2"	31212603
25-3/4"	31212604
32-3/4"	31212605
32-1"	31212606



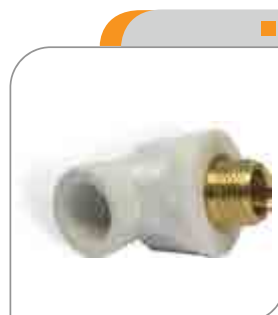
### Direct elbow reducer strapped

One-layer fittings - Direct elbow reducer strapped	
size (mm)	Code No.
20-1/2"	31212701
25-1/2"	31212702
25-3/4"	31212703
32-3/4"	31212704



### Direct elbow brain

One-layer fittings - Direct elbow brain	
size (mm)	Code No.
20-1/2"	31212801
20-3/4"	31212802
25-1/2"	31212803
25-3/4"	31212804
32-1"	31212805



### Direct elbow brain strapped

One-layer fittings - Direct elbow brain strapped	
size (mm)	Code No.
20-1/2"	31212901
20-3/4"	31212902
25-1/2"	31212903
25-3/4"	31212904



## Pipe elbow

One-layer fittings - Pipe elbow	
size (mm)	Code No.
20	soon
25	soon



## Equal tee

One-layer fittings - Equal tee	
size (mm)	Code No.
20	31213101
25	31213102
32	31213103
40	31213104
50	31213105
63	31213106



## Mental female socket elbow

One-layer fittings - Mental female socket elbow	
size (mm)	Code No.
20-1/2"	31212708
25-1/2"	31212709





## Reducer tee

One-layer fittings - Reducer tee	
size (mm)	Code No.
20-20-25	31213201
25-20-25	31213202
20-25-25	31213203
20-25-20	31213204
32-20-32	31213205
32-25-32	31213206
25-25-32	31213207
25-32-32	31213208
25-32-25	31213209
20-32-32	31213210
20-20-32	31213211
20-32-20	31213212
20-25-32	31213213
25-20-32	31213214
20-32-25	31213215
40-20-40	31213216
40-25-40	31213217
40-32-40	31213218
32-32-40	31213219
32-40-40	31213220
50-32-50	31213222
50-40-50	31213223
63-40-63	31213229
63-50-63	31213230



## Corner tee

One-layer fittings - Corner tee	
size (mm)	Code No.
20	31213301
25	31213202



## Mental navel tee

One-layer fittings - Mental navel tee	
size (mm)	Code No.
20-1/2"	31213401
25-1/2"	31213402
25-3/4"	31213403
32-3/4"	31213404
32-1"	31213405



## Mental brain tee

One-layer fittings-Mental brain tee	
size (mm)	Code No.
20-1/2"	31213501
25-1/2"	31213502
25-3/4"	31213503
32-1 "	31213504



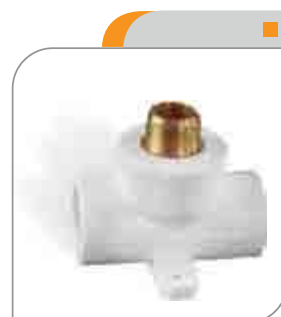
### Socket strapped tee

One-layer fittings - Socket strapped tee	
size (mm)	Code No.
20-1/2"	31213601
25-1/2"	31213602
25-3/4"	31213603
32-1"	31213604



### Mental brain strapped tee

One-layer fittings - Mental brain strapped tee	
size (mm)	Code No.
20-1/2"	31213701
25-1/2"	31213702
25-3/4"	31213703
32-1"	31213704



### Polymer tube nut

One-layer fittings - Polymer tube nut	
size (mm)	Code No.
25	31214102



## Metal reducer integrated tube nut

One-layer fittings - Metal reducer integrated tube nut	
size (mm)	Code No.
20-1/2"	31214301
25-3/4"	31214302
32-1"	31214303
40-1,1/4"	31214304
50-1,1/2"	31214305
63-2"	31214306



## Short bridge

One-layer fittings - Short bridge	
size (mm)	Code No.
20	31215101
25	31215102



## Bend pipe

One-layer fittings-Bend pipe	
size (mm)	Code No.
20	31215201
25	31215202
32	31215203



### White threaded cap

One-layer fittings - White threaded cap	
size (inch)	Code No.
1/2"	31616101
3/4"	31616102
1"	31616103



### Long blue base cap

One-layer fittings - Long blue base cap	
size (inch)	Code No.
1/2"	31626201
3/4"	31626202



### Long red base cap

One-layer fittings - Long red base cap	
size (inch)	Code No.
1/2"	31636201
3/4"	31636202



### Welding cap lid

One-layer fittings - Welding cap lid	
size (inch)	Code No.
20	31216301
25	31216302
32	31216303
40	31216304
50	31216305
63	31216306



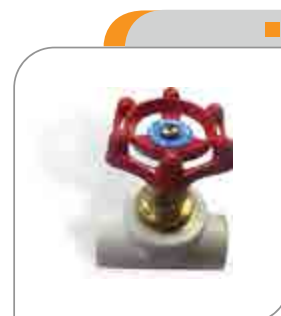
## Weld single-tap

One-layer fittings - Weld sinngle-tap	
size (mm)	Code No.
20	31217101
25	31217102
32	31217103
40	31217104
50	31217105
63	31217106



## Full welded roller valve

One-layer fittings - Full welded roller valve	
size (mm)	Code No.
20	31217201
25	31217202
32	31217203
40	31217204



## Single closure

One-layer fittings-Single closure	
size (mm)	Code No.
20	31618102
25	31618103
32	31618104
40	31618105





### Cone valve stencil

One-layer fittings - Cone valve stencil	
size (mm)	Code No.
165mm-1/2"	31318201



### Radiator installation sheet 50 cm

One-layer fittings - Radiator installation sheet 50cm	
size (mm)	Code No.
500mm-1/2"	31318202



### Pipe welding machine

One-layer fittings - Pipe welding machine	
size (mm)	Code No.
Ø16-63 800w	31401001

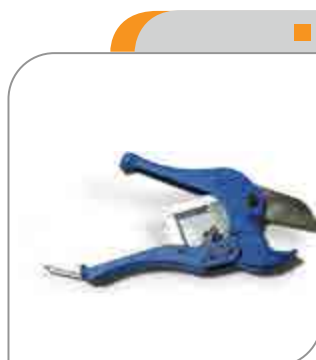


## Welding machine mold



One-layer fittings -Welding machine mold	
size (mm)	Code No.
20	31401101
25	31401102
32	31401103
40	31401104
50	31401105
63	31401106
75	31401107

## Pipe scissors



One-layer fittings - Pipe scissors	
size (mm)	Code No.
42	31402101
63	31402102

# Alborz Setareh Golpayegan Co.



**pipe and Five-layer fittings**

**PERT-AL-PERT**

**&**

**PEX-AL-PEXB five-layer composite pipe**

### Five-layer pipes and fittings (PERT-AL-PERT & PEXb-AL-PEXb five-layer composite pipe)

5-layer composite pipes, which are a combination of metal and polymer, have the advantages of the previous two generations of pipes (metal pipes and polymer pipes) and have eliminated their disadvantages and are presented as the latest generation of pipes.

PERT is a polyethylene that creates longitudinal bonds between its molecules and makes it more resistant to pressure and temperature than the foundation (Polyethylene Raised Temperature). Integrated pipes are suitable for hot and cold water up to 90 degrees.

PEX is a special type of polyethylene whose molecules are longitudinally and transversely bonded together and are actually arranged next to each other in a grid. This network connection increases the PEX resistance to pressure and temperature significantly. Grade b This type of polyethylene is used in the production of integrated pipes. PEXb-AL-PEXb pipes at a pressure of 10 bar and a temperature of 95 ° C will last more than 100 years, also Suitable for all types of hot and cold water piping. PEX is a type of hard heat polymer and PERT is a type of soft heat polymer.

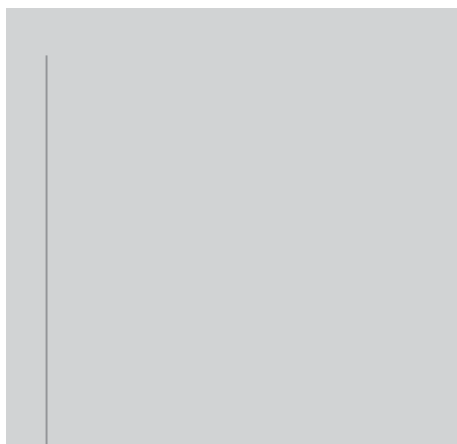
Alborz Setareh Golpayegan 5-layer pipes with the brand name of Nivan Pipe are produced from the best raw materials and in accordance with ASTM-F1281, ASTM-F1282 and F1335 and Iranian National Standard No. 12753, and laser and ultrasonic welding technology is used in their production.



Alborz Setareh Golpayegan Co.

### Advantages

- low weight
- Long life
- Withstand high pressure and temperature
- High surface smoothness (roughness and low pressure drop)
- Low longitudinal expansion coefficient
- Convenient and easy installation
- Perfectly suited for working plumbing
- Waste and low fines due to coiled pipe
- High corrosion resistance of interior and exterior surfaces
- No sedimentation
- environment lover
- Variety in connections
- Lack of oxygen penetration
- Ductility
- economic efficiency
- No effect on the properties of drinking water
- Proper resistance to building subsidence and earthquake damage
- Resistance and silence against the phenomenon of ram impact
- Usability for chemical fluids
- Can be used for a variety of installation systems, especially underfloor heating
- Traceability with metal detector





## Laboratory tests of five-layer pipes

### Raw material tests

- Aluminum tensile test
- MFI test of polymeric materials (melt flow index)
- Measure the density of all raw materials
- Test for moisture absorption

### Product tests

- Adhesion test of polymer and aluminum layers
- Weld durability test
- Burst pressure test (burst)
- Tube hydrostatic stability test (for 160 hours and 1000 hours with specified pressures)
- Final test of the coil (ball test)
- Layer thickness measurement (dimensional test)
- Measure the percentage of cross-cutting (in pipes) of PEX
- Pipe assembly and connection pressure test



## Uses of integrated pipes (Nivan Pipe)

- Sanitary plumbing (hot and cold water)
- Underfloor heating system
- Radiator and fan coil plumbing
- Gas piping with special fittings
- Used as a riser in buildings
- Heating facilities
- Cooling facilities
- Pneumatic, food and chemical industries

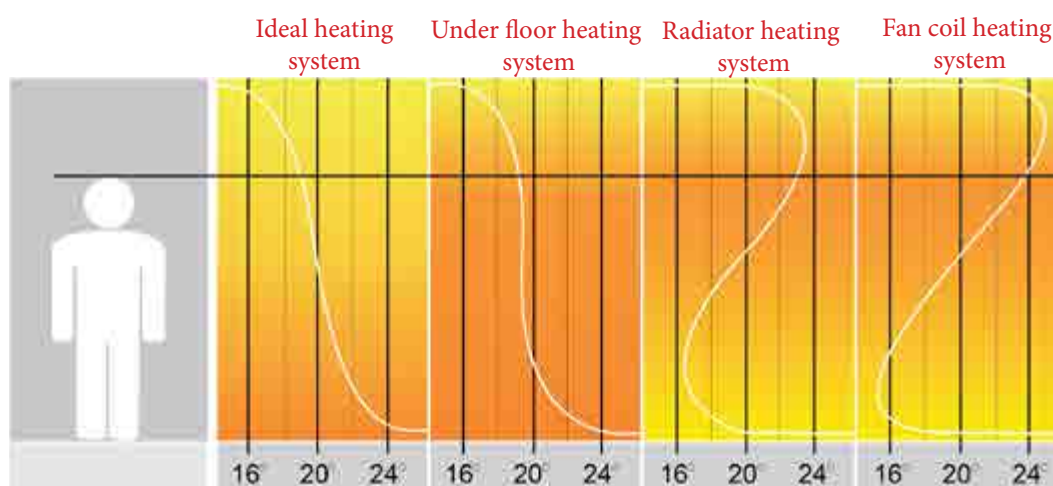




## Introduction of underfloor heating system

Underfloor heating system is one of the most modern and newest heating systems in the world that is used in many developed countries. This method removes the radiator system and removes the space occupied by it. The walls do not get soot and if it is implemented correctly and properly, the efficiency of the heating system will increase and fuel consumption will be significantly saved, so that it will depreciate its cost in a few years.

Underfloor heating system distributes hot water gently on all surfaces by circulating hot water through a network of pipes on the floor of the building. The following diagram shows a comparison of the optimal heating curve for humans with other heating systems.



In this system, the heat distribution is completely uniform. The maximum system temperature is 29 ° C, hot inlet water with a temperature of 50 ° C is supplied through the engine room, package or solar panels and is distributed through special collectors. Underfloor heating system is suitable for various floor coverings such as stone, ceramic, parquet, carpet, etc. When using 5-layer integrated pipes for underfloor heating, the pipe should be bent to the allowable level, if  $D$  is the desired pipe diameter and the pipe bending radius is  $r$ , it should always be  $r \geq 5D$ .

Table of minimum pipe bend radius in 16-32 milimeter				
32	25	20	16	Pipe size(mm) Bending method
160	125	100	80	Manual (mm)
128	100	80	64	Spring (mm)
128	80	78	49	Tube bending (mm)



## About underfloor heating system

Comfort and convenience with the underfloor heating system is very pleasant and some even call it unique. In this system, the floor of a room or environment is heated evenly and completely, from floor to ceiling.

In a radiator heating system, the heating is spot and only in a part of the space, while the radiant heat transfer system in the floor of the building heats the whole space with low water heat inside the pipes, which is very effective. As the heat moves up from the floor level of the room, everything in the room heats up relatively evenly.



In most systems, the heat generated is produced more than we need, which in view of the increasing price of energy, the solution to get rid of excessive consumption of energy carriers to reduce the need for heat produced by the system to heat

Spaces that due to the proper and effective heat transfer of the underfloor heating system, this idea will be implemented.

Alborz Setareh Golpayegan Co.



## Advantages of using underfloor heating system

- The highest comfort and tranquility possible
- Heat uniformity
- Fuel saving
- Freedom of action in interior decoration due to lack of space
- Clean walls and furniture
- Increasing the value of the home
- Wet and humid soils remain drier
- Suitable for people with rheumatism and allergies

## PERT-AL-PERT pipe



Press fittings-PERT-AL-PERT pipe	
size (mm)	Code No.
16	32110101
20	32110102
25	32110103
32	32110104

## PEXB-AL-PEXB



Press fittings - PEXb-AL-PEXB	
size (mm)	Code No.
16	32120001
20	32120002
25	32120003
32	32120004

## Female Press interface

Press fittings - Female Press interface	
size (mm)	Code No.
16-1/2	32335111
16-3/4	32335112
20-1/2	32335113
20-3/4	32335114
25-3/4	32335116
25-1	32335117
32-1	32335119
32-1,1/4	32335120



## Male Press interface

Press fittings - Male press interface	
size (mm)	Code No.
16-1/2	32336111
16-3/4	32336112
20-1/2	32336113
20-3/4	32336114
25-3/4	32336115
25-1	32336116
32-1	32336117



## Equal Press interface

Press fittings - Equal Press interface	
size (mm)	Code No.
16	32313111
20	32313112
25	32313113
32	32313114



## Reducer press interface

Press fittings - Reducer press interface	
size (mm)	Code No.
20-16	32314111
25-16	32314112
25-20	32314113
32-16	32314114
32-20	32314115
32-25	32314116



## Female elbow Press

Press fittings - Femal elbow Press	
size (mm)	Code No.
16-1/2	32315111
20-1/2	32315112
20-3/4	32315113
25-3/4	32315114
25-1	32315115
32-1	32315117



## Male elbow press

Press fittings-Male elbow Press	
size (mm)	Code No.
16-1/2	32316111
20-1/2	32316112
20-3/4	32316113
25-3/4	32316114
25-1	32316115
32-1	32316117



## Elbow wall prickly ball press

Press fittings - Elbow wall prickly ball Press	
size (mm)	Code No.
16-1/2	32341111
Diet 16-1/2	32341311
Diet 20-1/2	32318312
20-1/2	32318112
25-3/4	32341113



## Equal elbow press

Press fittings - Equal elbow Press	
size (mm)	Code No.
16	32321111
20	32321112
25	32321113
32	32321114



## Elbow plate with pressed top

Press fittings - Elbow plate with pressed top	
size (mm)	Code No.
16-1/2	32319111
20-1/2	32319112





### Equal tee press

Press fittings - Equal tee Press	
size (mm)	Code No.
16	32324111
20	32324112
25	32324113
32	32324114



### Reducer press tee

Press fittings - Reducer press tee	
size (mm)	Code No.
20-16-16	32320111
20-16-20	32320112
25-16-16	32320113
25-16-20	32320114
25-16-25	32320115
32-16-32	32320116
20-20-16	32320117
25-20-16	32320118
25-20-20	32320119
25-20-25	32320120
32-20-32	32320121
25-25-16	32320122
32-25-25	32320123
32-25-32	32320124



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## Tee 90 degree barbed wall in the press page

Press fittings - Tee 90 degree barbed wall in the press page	
size (mm)	Code No.
16-1/2-16	32322111
16-1/2-20	32322112
Diet 20-1/2-20	32322312
20-1/2-20	32322113
Diet 16-1/2-16	32322311
Diet 20-1/2-16	32322313



## Press pipe nut

Press fittings - Press pipe nut	
size (mm)	Code No.
16-1/2	32344111
20-1/2	32344113
25-3/4	32344116



## Press collector valve

Press fittings - Press collector valve	
size (mm)	Code No.
16-1/2	32332111
20-1/2	32332112



### Coupling female interface

Coupling fittings - Coupling female interface	
size (mm)	Code No.
16-3/4"	32335210
16-1/2	32335211
20-1/2	32335212
25-3/4	32335213
25-1	32335214
32-1	32335215
20-1	32335216
25-1/2	32335217
20-3/4	32335218



### Coupling male interface

Coupling fittings - Coupling male interface	
size (mm)	Code No.
16-1/2	32336211
20-1/2	32336212
25-3/4	32336213
32-1	32336214
25-1	32336215
20-3/4"	32336216
25-1/2	32336217



### Equal Coupling interface

Coupling fittings - Equal Coupling interface	
size (mm)	Code No.
16	32313211
20	32313212
25	32313213
32	32313214



### Female Koupling elbow

Coupling fittings - Female Koupling elbow	
size (mm)	Code No.
25-1	32315215
32-1	32315217



### Male coupling elbow

Coupling fittings - Mmale Koupling elbow	
size (mm)	Code No.
16-1/2	32315211
20-1/2	32315212
25-3/4	32315213
32-1	32315214
25-1	32315215



### Barbed wall coupling elbow

Coupling fittings - Barbed wall Koupling elbow	
size (mm)	Code No.
Diet 16-1/2	32341411
Diet 20-1/2	32341412
20-1/2	32318212



### Coupling collector valve

Coupling fittings - Coupling collector valve	
size (mm)	Code No.
16-1/2	32332211
20-1/2	32332212
25-3/4	32332312



### Coupling elbow valve

Coupling fittings - Coupling elbow valve	
size (mm)	Code No.
25-1	32343212
32*1"	32343213
25-3/4	32343313



### Coupling reducer interface (socket)

Coupling fittings - Coupling reducer interface (socket)	
size (mm)	Code No.
32-20	32314215
32-25	32314216



### Equal coupling elbow

Coupling fittings - Equal Coupling elbow	
size (mm)	Code No.
16	32321211



### Elbow with wall plate in coupling screw

Coupling fittings - Elbow with wall plate in coupling screw	
size (mm)	Code No.
1/2-16	32319211
1/2-20	32319212



### Equal coupling tee

Coupling fittings - Equal coupling tee	
size (mm)	Code No.
16	32324211
20	32324212
25	32324213
32	32324214



### Tee wall 90 degree barbed diet coupling ball

Coupling fittings - Tee wall 90 barbed diet coupling ball	
size (mm)	Code No.
16-1/2-16	32322221
20-1/2-20	32322223



### Coupling reducer tee

Coupling fittings - Coupling reducer tee	
size (mm)	Code No.
25-16-25	32321115





## Collector

Collector equipment - Collector		
Branch number	size (inch)	Code No.
2B	1-1/2"	32329213
3B	1-1/2"	32329313
4B	1-1/2"	32329413
4B	1,1/4-1/2"	32329314
5B	1-1/2"	32329513
6B	1-1/2"	3329613
6B	1,1/4-1/2"	32329514
7B	1-1/2"	32329713
7B	1,1/4-1/2"	32329614
8B	1-1/2"	32329813
8B	1,1/4-1/2"	32329714
9B	1-1/2"	32329913
9B	1,1/4-1/2"	32329814
10B	1-1/2"	32329113
10B	1,1/4-1/2"	32329914
12B	1-1/2"	32329915



## Simple brass collector cap

Collector equipment - Simple brass collector cap	
size (inch)	Code No.
3/4	32330011
1	32330012
1,1/4	32330013



## Collector cap with manual vent valve

Collector equipment - Collector cap with manual vent valve	
size (inch)	Code No.
1"	32338001



## Rubber ball gas valve

Equipment - Rubber ball gas valve	
size (inch)	Code No.
1/2	33121101
3/4	33121102
32-1	33121103



## Locking gas valve

Equipment - Locking gas valve	
size (inch)	Code No.
1	33121201



## Piswar valve

Equipment - piswar valve	
size (inch)	Code No.
1/2 - 1/2	32451301
3/8-1/2	32451302



### Washing valve

Equipment - Washing valve	
size (inch)	Code No.
3/4	324551403



### Gas handle yard valve

Equipment - Gas handle yard valve	
size (inch)	Code No.
1/2	32451101



### Heavy butterfly handle male-female valve

Equipment - Heavy butterfly handle male-female valve	
size (inch)	Code No.
1/2	32451201
3/4	32451202



## Manual air intake valve screw

Collector equipment - Manual air intake valve screw	
size (inch)	Code No.
1/4	3233011



## Complete collector box

Collector equipment - Complete collector box	
size (mm)	Code No.
45-45	32333011
45-65	32333015
45-95	32333016



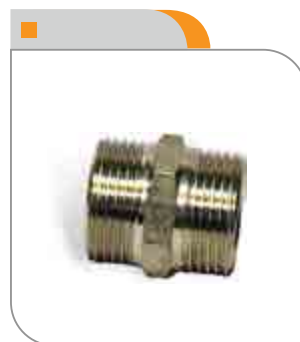
## Installation sheet

Installation equipment - Installation sheet	
size (mm)	Code No.
73	32334011
153	32334012
Double 245	32334013
Bend 245	32334014
280	32334015
500	32334016
Bend 280	32334017
Package	32334018



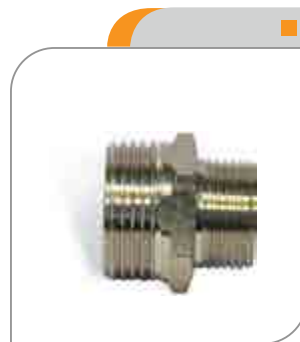
### Female interface (brain)

Threaded fittings - Female interface (brain)	
size (inch)	Code No.
1/2	32327611
3/4	32327612
1	32327613
1,1/4	32327614



### Female interface (brain) reducer

Threaded fittings - Female interface (brain) reducer	
size (inch)	Code No.
1/2-3/4	32326611
1-3/4	32326612



### Male female interface

Threaded fittings - Male female interface	
size (inch)	Code No.
1/2	32328611
3/4	32328612
1"	32328613



## Male female reducer interface

Threaded fittings - Male female reducer interface	
size (inch)	Code No.
Female interface 1/2 male interface 3/4	32325610
Female interface 3/4 male interface 1/2	32325611
Female interface 1 male interface 1/2	32325612
Female interface 1 male interface 3/4	32325613
Female interface 1 male interface 1,1/4	32325614
Female interface 3/4 male interface 1,1/4	32325615
Female interface 1/2 male interface 1,1/4	32325616
Female interface 1,1/4 male interface 1/2	32325617
Female interface 1,1/4 male interface 3/4	32325618
Female interface 1,1/4 male interface 1	32325619
Female interface 3/4 male interface 1	32325620



## Male female elbow

Threaded fittings - Male female elbow	
size (inch)	Code No.
1/2	32317611
3/4	32317612
1	32317613



## Single multiplication scissors

Single multiplication scissors	
size (mm)	Code No.
32-16	32449501





## Adjustment tool

Adjustment tool	
size (mm)	Code No.
16	32347111
20	32347112
25	32347113
32	32347114
40	32347115



## Hydraulic press machine for 5-layer pipes and fittings

Hydraulic press machine for 5-layer pipes and fittings	
size	Code No.
1	32449601



## Pipe cutting machine

Pipe cutting machine	
size (mm)	Code No.
63-40	32449701



## Fastener

Fastener	
size (inch)	Code No.
1	32342013



## Collector base

Collector base	
size (inch)	Code No.
1	32346013



## Collector screw

Collector screw	
size (mm)	Code No.
	323421111



### Jaw box and five-layer pipe press mold

Teflon steel ring retainer connecting five layers	
size (mm)	Code No.
32-16	32449801



### Jaw five-layer pipe press machine

Jaw five-layer pipe press machine	
size (mm)	Code No.
40-50	32449802
63	32449803



### Five-layer pipe press mold

Five-layer pipe press mold	
size (mm)	Code No.
32-16	32449901
	32449902
	32449903



### Teflon steel ring retainer connecting five layers

Teflon steel ring retainer connecting five layers	
size (mm)	Code No.
16	32422311
20	32422312
25	32422313
32	32422314



### Tail cap steel ring connecting five layers

Tail cap steel ring connecting five layers	
size (mm)	Code No.
16	32422511
20	32422512
25	32422513
32	32422514



### Brass ring coupling of five-layer pipes

Brass ring coupling of five-layer pipes	
size (mm)	Code No.
16	32422611
20	32422612
25	
32	



### EPE, XPE sleeping floor foam

EPE, XPE sleeping floor foam	
size (mm)	Code No.
20*2500	XPE 32449701
20*2500	EPE 32449702



### Pipe foam

Pipe foam	
size (mm)	Code No.
16	32349001
20	32349002
25	32349003
32	32349004



### Press steel connection ring

Press steel connection ring	
size (mm)	Code No.
16	32422111
20	32422112
25	32422113
32	32422114



### Oring sealing EPDM five-layer fitting

Oring sealing EPDM five-layer fitting	
size (mm)	Code No.
16	3242211
20	3242212
25	3242213
32	3242214



### Classic shower

Classic shower	
size (mm)	Code No.
16	32449611
20	32449621



### Pipe foam

Pipe foam	
size (mm)	Code No.
16	32449612
20	32449622



### Barbed wire

Barbed wire	
size (mm)	Code No.
16	32449601



### Rubber flat washer

Rubber flat washer	
size (mm)	Code No.
16	32422411
20	32422412





# Alborz Setareh Golpayegan Co.



Sewer push fit  
pipes and fittings

## Sewer push fit pipes and fittings

The development of science in various fields has caused the products offered to the market to be transformed and to be more and more appropriate to the needs of consumers today.

The PP sewage pipes and fittings of this company with proper design and superior raw materials have been able to maintain the advantages of previous systems such as PVC, polyethylene and cast iron, free from their disadvantages.

The sewage PP products of this company are produced from PP-FR raw materials according to the German DIN-19560 standard and have a high durability with maximum mechanical resistance. In addition to being light and easy to install, these pipes have minimal friction against sewage flow and, unlike polyethylene pipes, are completely safe in fire conditions. Push-fit pipes, with their unique advantages, create a fundamental change in the design and implementation of the sewerage network of buildings.

## Application

- Sewage systems of buildings, hotels, hospitals
- Rainwater collection and urban tributaries
- Application in various industries and laboratories by observing the chemical resistance table
- Sewage pipes include vertical pipes, horizontal pipes and main horizontal pipes
- Rainwater collection pipes include vertical pipes and main horizontal pipes
- Ventilation and sewerage pipes including vertical pipes, horizontal pipes and external pipes
- Municipal sewage diversion

## Features

- Made from PP-FR according to DIN-19560, DIN-4060, EN 1451-1-2000,
- EN 681-1-1996
- Complete safety in case of fire according to DIN-4102-B1
- Quick and easy installation
- Low weight compared to other systems such as cast iron and polymer
- High impact and pressure resistance
- Sealing rings produced with advanced technology made in Germany
- Precision and exclusive formulation of sealing o-rings resistant to chemical compounds of wastewater
- High resistance to chemical interactions according to its user standard
- It has very smooth polished surfaces without edges and appendages in the direction of flow
- Resistant to hot and cold sewage inside and outside the building compared to PVC pipes and PE pipes

- Resistant to corrosion, rot, rust and oxidation compared to metal pipe and asbestos pipe
- 50 to 100 years life for both pipes and fittings and sealing washers
- High flexibility compared to cast iron pipe and asbestos pipe, especially in joints when moving the ground and building
- High thermal resistance compared to hollow pipe and PE pipe
- High chemical resistance, especially against bioorganic sulfuric acid present in wastewater compared to asbestos pipe
- Frost and impact resistant compared to PVC pipe and asbestos pipe
- Quick and easy installation compared to PE pipe, asbestos pipe and cast iron pipe
- Resistance to sound transmission and noise pollution in comparison with different types of pipes
- 10-year insurance compared to different types of pipes
- Environmentally friendly compared to PVC pipe, asbestos pipe and cast iron pipe due to the lack of lead and tin compounds
- Polished surface with minimal sediment compared to cast iron pipe and asbestos pipe with very low coefficient of friction ( $c > 150$ )
- Minimal ministerial friction and optimal hydraulics compared to cast iron pipe and asbestos pipe
- Connecting the outlet branch of the sanitary ware to the horizontal branch of the vertical pipe or the main pipe according to the sixteenth section. The National Building Code must be detachable. (PE, PVC and cast iron pipes are not possible).

### Chemical resistance

Polypropylene pipes are one of the most resistant materials for the passage of chemical fluids. The most important advantage of PP is that it is completely resistant to bioorganic sulfuric acid, which is found in domestic and municipal wastewater.

### Raw materials and consumables

The polypropylene used to make fittings and pipe fittings with a specific weight of 933 Kg /m<sup>3</sup> is about 5.8 times less than cast iron and about 50% lighter than PVC, and at the same time it does not have the brittleness of PVC and lacks compounds. It is lead and tin.

Also, due to the fact that each of the components of pipes and fittings on one side has a special place for the establishment of the sealing ring and the other side has a conic. Therefore, connecting them easily and without the need for glue and welding or other additional work that wastes time in execution. It should be noted that the 19560 DIN standard is now overshadowed by the European standard 1451 EN, and in this new standard, the fire resistance of PP sewage pipe raw materials is subject to national and regional requirements and standards.

Comparison of sewage transmission systems				
PVC	Polyethylene	Cast iron	PP-FR	Features
Fragile	Medium	High	High	Impact resistance
Medium	Hard with low reliability	Very hard	Easy	Running and installation
Yes	no	no	yes	Smooth and polished surface
Medium	Medium	Weak	Excellent	Chemical resistance
Light	Medium	Very heavy	Very light	weight
Comfortable	hard	hard	comfortable	transportation

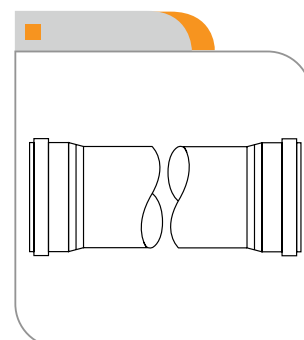
### Pipe 50 straight socket

Push- fit pipe and fittings - Pipe 50 straight socket	
size (mm)	Code No.
250	35130201
500	35130501
1000	35130701
2000	35130901
3000	35131101



### Pipe 50 double socket

Push- fit pipe and fittings - Pipe 50 double socket	
size (mm)	Code No.
500	35130601
1000	35130801
2000	35131001
3000	35131201



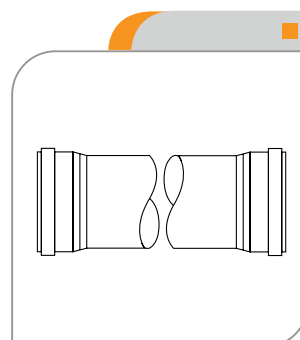
### Pipe 75 single socket

Push- fit pipe and fittings - Pipe 75 single socket	
size (mm)	Code No.
250	35130202
500	35130502
1000	35130702
2000	35130902
3000	35131102



### Pipe 75 double socket

Push- fit pipe and fittings - Pipe 75 double socket	
size (mm)	Code No.
500	35130602
1000	35130802
2000	35131002
3000	35131202



### Pipe 110 single socket

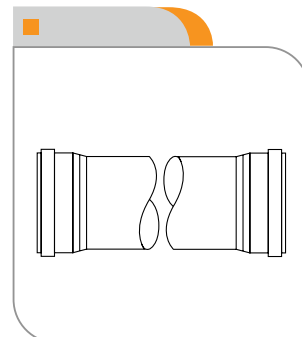
Push- fit pipe and fittings - Pipe 110 single socket	
size (mm)	Code No.
250	35130204
500	35130504
1000	35130704
2000	35130904
3000	35131104





### Pipe 110 double socket

Push- fit pipe and fittings - Pipe 110 double socket	
size (mm)	Code No.
500	35130604
1000	35130804
2000	35131004
3000	35131204



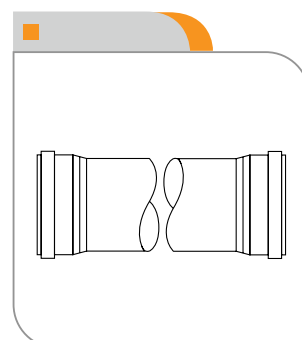
### Pipe 125 single socket

Push- fit pipe and fittings - Pipe 125 single socket	
size (mm)	Code No.
250	35130205
500	35130505
1000	35130705
2000	35130905
3000	35131105



### Pipe 125 double socket

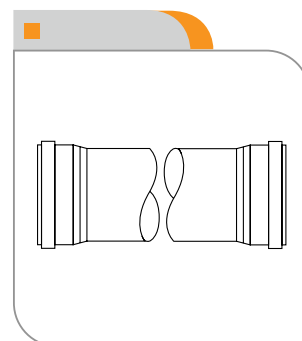
Push- fit pipe and fittings - Pipe 125 double socket	
size (mm)	Code No.
500	35130605
1000	35130805
2000	35131005
3000	35131205





### Pipe 160 double socket

Push - fit pipe and fittings - Pipe 160 double socket	
size (mm)	Code No.
500	35130606
1000	35130806
2000	35131006
3000	35131206



### Pipe 160 single socket

Push - fit pipe and fittings - Pipe 160 single socket	
size (mm)	Code No.
250	35130206
500	35130506
1000	35130706
2000	35130906
3000	35131106



### Eccentric reducer

Push - fit pipe and fittings - Eccentric reducer	
size (mm)	Code No.
75-50	35230207
110-50	35230208
110-75	35230209
125-110	35230210
160-110	35230211
160-125	35230212



### Reducer siphon

Push - fit pipe and fittings - Reducer siphon	
size (mm)	Code No.
125-110	35230305



## Siphon

Push - fit pipe and fittings - Siphon	
size (mm)	Code No.
50	35230301
75	35230302
110	35230304



## Long reducer siphon

Push - fit pipe and fittings - Long reducer siphon	
size (mm)	Code No.
63-50	35251501
125-110	35250505



## A long one-piece siphon

Push - fit pipe and fittings - A long one - piece siphon	
size (mm)	Code No.
75	35250502
110	35250504
125	35250505



## Socket

Push - fit pipe and fittings-Socket	
size (mm)	Code No.
50	35230101
75	35230102
110	35230104
125	35230105
160	35230106



## A short one-piece siphon

Push - fit pipe and fittings - A short one-piece siphon	
size (mm)	Code No.
50	35250401
75	35250402
110	35250404



## Elbow 87

Push - fit pipe and fittings - Elbow 87	
size (mm)	Code No.
50	35230601
75	35230602
110	35230604
125	35230605
160	35230606



## Elbow 45

Push - fit pipe and fittings - Elbow 45	
size (mm)	Code No.
50	35230701
75	35230702
110	35230704
125	35230705
160	35230706



## Elbow 30

Push- fit pipe and fittings - Elbow 30	
size (mm)	Code No.
50	35230801
75	35230802
110	35230804
125	35230805
160	35230806



## Tee 87

Push- fit pipe and fittings - Tee 87	
size (mm)	Code No.
50	35231001
75	35231002
110	35231004
125	35231005
160	35231006



## Reducer tee 87

Push- fit pipe and fittings - Reducer tee 87	
size (mm)	Code No.
75-50	35231107
110-50	35231108
110-75	35231109
125-110	35231110
160-110	35231111
160-125	35231112



### Tee 45

Push- fit pipe and fittings - Tee 45	
size (mm)	Code No.
50	35231201
75	35231202
110	35231204
125	35231205
160	35231206



### Cross 45

Push- fit pipe and fittings - Cross 45	
size (mm)	Code No.
110	35231504



### Cross reducer 45

Push- fit pipe and fittings - Cross reducer 45	
size (mm)	Code No.
75-50	35231307
110-50	35231308
110-75	35231309
125-110	35231310
160-110	35231311
160-125	35231312



## Cap

Push- fit pipe and fittings - Cap	
size (mm)	Code No.
50	35231601
75	35231602
110	35231604
125	35231605
160	35231606



## Fixed wall bracket (base)

Push- fit pipe and fittings - Fixed wall bracket (base)	
size (mm)	Code No.
50	35301901
75	35301902
110	35301904
125	35301905
160	35301906



## Oring

Push- fit pipe and fittings - Oring	
size (mm)	Code No.
50	35251801
75	35251802
110	35251804
125	35251805
160	35251806





## Ceiling pipe clamps

Push- fit pipe and fittings - Ceiling pipe clamps	
size (mm)	Code No.
50	35302001
75	35302002
110	35302004
125	35302005
160	35302006



## visit valve tee

Push- fit pipe and fittings - visit valve tee	
size (mm)	Code No.
50	35231401
75	35231402
110	35231404
125	35231405



## Roofing canes

Push- fit pipe and fittings - Roofing canes	
size (mm)	Code No.
50	35251701
75	35251702
110	35251704



### Visit valve interface

Push - fit pipe and fittings - Visit valve interface	
size (mm)	Code No.
75	35232110
110	35232111
125	35232112



### Visit valve door

Push- fit pipe and fittings - Visit valve door	
size (mm)	Code No.
75	35233110
110	35233111
125	35233112



### Double siphon

Push - fit pipe and fittings - Double siphon	
size (mm)	Code No.
110	35235110
125	35235111
160	35235112



### Long elbow 87

Push - fit pipe and fittings - Long elbow 87	
size (mm)	Code No.
110	35234110
125	35234111
160	35234112



# Alborz Setareh Golpayegan Co.



Types of hoses

## Types of hoses

Hoses have various applications in domestic, industrial and ... due to their flexibility. The quality of the hose depends on various factors such as raw materials, material formula and production by appropriate methods and devices. The hoses produced by this company are produced for water supply and industrial uses in different designs and dimensions. Hoses are usually woven with polyester yarns in a circular or chain manner and, as a layer, increase the resistance of the hose to pressure and other factors.

The most important features of the hoses of this company are:

- Flexibility and lightness
- Two-layer thickness uniformity in hose cross section
- Proper adhesion of two layers
- Passing the burst pressure test
- Accelerated acceptance of burnout tests
- Using of special PVC materials to increase strength and efficiency



**Alborz Setareh Golpayegan Co.**

### Two-layer transparent threaded hose

Types of hoses - Two-layer transparent threaded hose	
size (mm)	Code No.
20	33110101
25	33110102
32	33110103



### Two-layer colored threaded hose

Types of hoses - Two-layer colored threaded hose	
size (mm)	Code No.
20	33110201
25	33110202
32	33110203



### Two-layer thread less hose (Morvarid)

Types of hoses - Two-layer thread less hose(Morvarid)	
size (mm)	Code No.
20	33110401
25	33110402
32	33110403



### Dorsa hoses

Types of hoses - Dorsa hoses	
size (mm)	Code No.
20	33110301
25	33110302



## Snake gas hose

Types of hoses - Snake gas hose	
size (mm)	Code No.
3/8	33120301
5/16	33120302



## French gas hose

Types of hoses - French gas hose	
size (mm)	Code No.
3/8	33120303
5/16	33120304



## Colored threaded gas hose

Types of hoses - Colored threaded gas hose	
size (mm)	Code No.
3/8	33120202
5/16	33120203

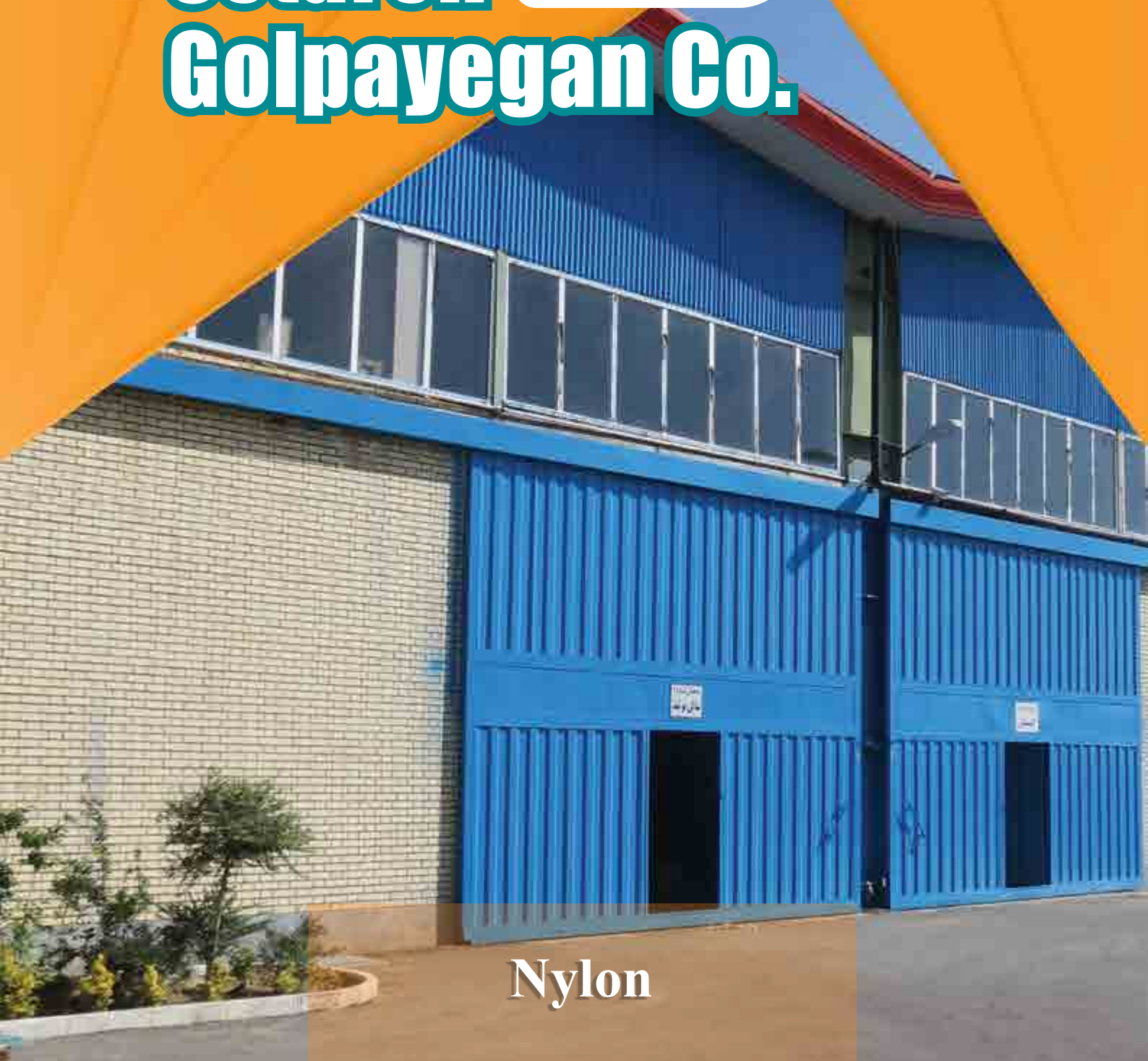


Type of hoses - Black water cooler hose
Code No.
33130101

Type of hoses - Black water cooler hose
Code No.
33130102



# Alborz Setareh Golpayegan Co.



Nylon

## Nylon

In the plastics industry, the production of blow-drying films based on lightweight polyethylene (LDPE) is referred to as "nylon". The softness and toughness of this family of polyethylenes has given them desirable mechanical properties and therefore has brought them a great demand from the country's consumer market. The most important features of the company's hoses are:

## Application

Today, nylon films have become part of our daily lives and have many uses, including in the packaging industry and other public uses.

### ➤ Packaging Industry

The uses of polyethylene films in the packaging industry are very wide. Its various widths and thicknesses are used to package cartons, bottles, containers and various products, which are called shrink pack.

For example, nylon around soft drink bottles or mineral water or food cartons such as biscuits or cans, such as tuna, etc. Usually, the width of these films is between 35 to 70 cm and their thickness is from 60 to 90 microns.

Another use of Shrink Pack films is for packing larger items, which is known as a special device called Pallet Shrink, with which cartons and bulky objects such as refrigerators, washing machines, etc. are packed. The width of this type of packaging is usually from 50 cm to more than 2 meters.

### ➤ General use

Wide nylons are used for temporary covering of warehouses and various buildings and prevention of damage caused by weather, dust, soil, etc. It can be used for houses, agriculture, etc.



Nylon	
size (mm)	Code No.
Two-layer nylon 1.3 wide 100cm	34020101
one-layer nylon 0.8 wide 108cm	34010101

The company can produce nylon with different wide and thicknesses

# Technical Certification





# Standard use license





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