PARS ETHYLENE KISH

MANUFACTURERE OF POLYETHYLENE PIPE, FITTINGS & MANHOLES

2018
2019

GERMAN TECHNOLOGY

بروج
Borouge

DROSSBACH
Corrugated Pipe Solutions

RELIABLE AND TRULY HIGHER QUALITY
MANUFACTURERE OF POLYETHYLENE PIPE, FITTINGS & MANHOLES

PARS ETHYLENE KISH COMPANY

Pars Ethylene Kish Co. is one of the leading manufacturers of Polyethylene pipes in Iran and the Middle East, cooperating in the majority of the national projects.
Just to name a few, we can list them as follows:
1. Majority of the National Iranian Oil Company's projects, as well as the affiliated companies of the Ministry of Oil.
2. Iranian Petrochemical Company`s projects.
3. 90% of the National Power Plant Construction projects.
4. Red Cross Projects in Africa, Central Asia, Iraq and Afghanistan.
5. The majority of the projects ordered by National Water & Wastewater Engineering Company of Iran.
6. Mineral water production projects, and many other huge construction projects.

Pars Ethylene Kish Company, producing Polyethylene pipe and fittngs from 20 mm up to 1500 mm in diameter according to DIN 8074 standard and INSO 14427.
The raw material for production is supplied by reputable PE suppliers such as Basell, BP Solvay, Sabic, and Borouge. Pipes, fittngs and manholes made of PE (Polyethylene) are considered as the best choice for fluid transportation systems in industrial projects, power plants and water supply systems. PE usage is firmly recommended for urban sewage systems, gas supply systems and underground firefighting projects.

POLYETHYLENE PIPE MACHINERY

Pars Ethylene Kish owns one of the most developed and well equipped production lines of Polyethylene pipes and fittngs in the world. Our machinery is made in Germany. We have been able to meet international standards and now known as the major competitor for foreign products in the Middle East.
The Extruders are made by Reifenhauser and Battenfeld which own the most advanced automated online control system.

RAW MATERIAL

Borouge is the leading raw material supplier for the pipe industry in the Middle East and Asia. Together with Borealis, they have had more than 40 years of experience in this field, extending well beyond producing and providing plastic pellets. HE3490-LS is a black, bimodal, HD polyethylene classified as a MRS 10.0 Material (PE 100) produced by the advanced Brostar technology. Well dispersed carbon black gives outstanding UV resistance. Long term stability is ensured by an optimized stabilization system.

POLYETHYLENE PIPE

Pars Ethylene Kish offers a wide range of PE pipes and fittngs with different applications applied by latest technology. Today PE pipes and fittngs are considered as the best choice in various projects based on their high quality. high reliability, easy loading, transferring and installation due to their low weight. These products also have high bending capability and high resistance to impact and pressure in low temperature environment.
HDPE pipe (Polyethylene pipe) has been produced in the world since the mid-1950s.Since then, the use of polyethylene has been growing worldwide due to its advantages over iron, steel and cement.

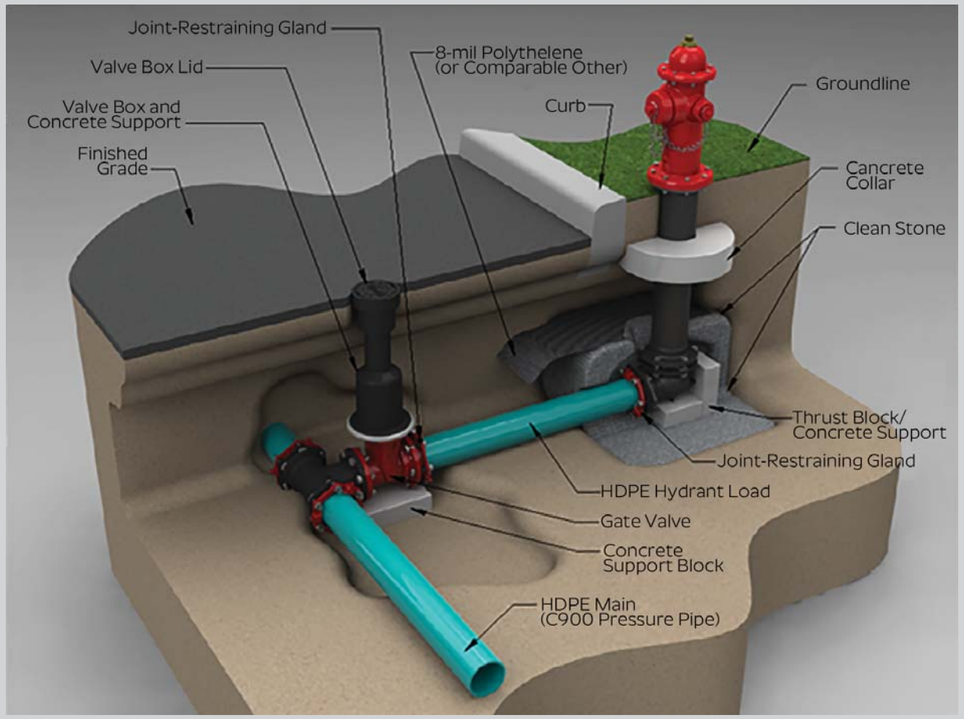
Wallthickness and mass table according to DIN 8074

PIPE Series	25		20		16		12.5		10.5		10		8.3		8		6.3		5		4		3.2		2.5		2	
SDR	51		41		33		26		22		21		17.6		17		13.6		11		9		7.4		6		5	
PE63	PN2		PN2.5		PN3.2		PN4		PN4.8		PN5		PN6		PN6.3		PN8		PN10		PN12.4		PN15.9		PN19.9		PN24.9	
PE80	PN2.5		PN3.2		PN4		PN5		PN6		PN6.3		PN7.5		PN8		PN10		PN12.5		PN16		PN20		PN25		PN32	
PE100	PN3.2		PN4		PN5		PN6.3		PN7.5		PN8		PN9.6		PN10		PN12.5		PN16		PN20		PN25		PN32		PN40	
d mm	**s** mm	**mass** in kg/m	**s** mm	**mass** in kg/m	**s** mm	**mass** in kg/m	**s** mm	**mass** in kg/m	**s** mm	**mass** in kg/m	**s** mm	**mass** in kg/m	**s** mm	**mass** in kg/m	**s** mm	**mass** in kg/m	**s** mm	**mass** in kg/m	**s** mm	**mass** in kg/m	**s** mm	**mass** in kg/m	**s** mm	**mass** in kg/m	**s** mm	**mass** in kg/m	**s** mm	**mass** in kg/m
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	0.048	2.0	0.052
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	0.060	2.0	0.064	2.4	0.074
16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	0.084	2.2	0.099	2.7	0.115	3.3	0.133
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	0.107	1.9	0.112	2.3	0.133	2.8	0.154	3.4	0.180	4.1	0.207
25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	0.137	1.9	0.144	2.3	0.171	2.8	0.200	3.5	0.240	4.2	0.278	5.1	0.320
32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	0.179	1.9	0.187	2.4	0.232	2.9	0.272	3.6	0.327	4.4	0.386	5.4	0.454	6.5	0.520
40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	0.227	1.9	0.238	1.9	0.239	2.3	0.285	2.4	0.295	3.0	0.356	3.7	0.430	4.5	0.509	5.5	0.600	6.7	0.701	8.1	0.809
50	-	-	-	-	1.8	0.287	2.0	0.314	2.3	0.361	2.4	0.374	2.9	0.440	3.0	0.453	3.7	0.549	4.6	0.666	5.6	0.788	6.9	0.936	8.3	1.09	10.1	1.26
63	-	-	1.8	0.364	2.0	0.399	2.5	0.494	2.9	0.563	3.0	0.580	3.6	0.688	3.8	0.721	4.7	0.873	5.8	1.05	7.1	1.26	8.6	1.47	10.5	1.73	12.7	1.99
75	1.8	0.436	1.9	0.457	2.3	0.551	2.9	0.675	3.5	0.807	3.6	0.828	4.3	0.976	4.5	1.02	5.6	1.24	6.8	1.47	8.4	1.76	10.3	2.09	12.5	2.44	15.1	2.82
90	1.8	0.525	2.2	0.643	2.8	0.791	3.5	0.98	4.1	1.14	4.3	1.18	5.1	1.39	5.4	1.46	6.7	1.77	8.2	2.12	10.1	2.54	12.3	3.00	15.0	3.51	18.1	4.05
110	2.2	0.786	2.7	0.943	3.4	1.17	4.2	1.43	5.0	1.67	5.3	1.77	6.3	2.08	6.6	2.17	8.1	2.62	10.0	3.14	12.3	3.78	15.1	4.49	18.3	5.24	22.1	6.04
125	2.5	1.00	3.1	1.23	3.9	1.51	4.8	1.84	5.7	2.16	6.0	2.27	7.1	2.66	7.4	2.76	9.2	3.37	11.4	4.08	14.0	4.87	17.1	5.77	20.8	6.75	25.1	7.79
140	2.8	1.25	3.5	1.54	4.3	1.88	5.4	2.32	6.4	2.72	6.7	2.83	8.0	3.34	8.3	3.46	10.3	4.22	12.7	5.08	15.7	6.11	19.2	7.25	23.3	8.47	28.1	9.76
160	3.2	1.63	4.0	2.0	4.9	2.42	6.2	3.04	7.3	3.54	7.7	3.72	9.1	4.35	9.5	4.52	11.8	5.50	14.6	6.67	17.9	7.96	21.9	9.44	26.6	11.0	32.1	12.7
180	3.6	2.05	4.4	2.49	5.5	3.07	6.9	3.79	8.2	4.47	8.6	4.67	10.2	5.48	10.7	5.71	13.3	6.98	16.4	8.42	20.1	10.1	24.6	11.9	29.9	14.0	36.1	16.1
200	3.9	2.46	4.9	3.05	6.2	3.84	7.7	4.69	9.1	5.51	9.6	5.78	11.4	6.79	11.9	7.05	14.7	8.56	18.2	10.4	22.4	12.4	27.4	14.8	33.2	17.2	40.1	19.9
225	4.4	3.12	5.5	3.86	6.9	4.77	8.6	5.89	10.3	7.00	10.8	7.30	12.8	8.55	13.4	8.93	16.6	10.9	20.5	13.1	25.2	15.8	30.8	18.6	37.4	21.8	45.1	25.2
250	4.9	3.83	6.2	4.83	7.7	5.92	9.6	7.30	11.4	8.59	11.9	8.93	14.2	10.6	14.8	11.0	18.4	13.4	22.7	16.2	27.9	19.4	34.2	23.0	41.6	27.0	50.1	31.1
280	5.5	4.83	6.9	5.98	8.6	7.40	10.7	9.10	12.8	10.8	13.4	11.3	15.9	13.2	16.6	13.7	20.6	16.8	25.4	20.3	31.3	24.3	38.3	28.9	46.5	33.8	56.2	39.0
315	6.2	6.12	7.7	7.52	9.7	9.37	12.1	11.6	14.4	13.6	15.0	14.2	17.9	16.7	18.7	17.4	23.2	21.2	28.6	25.6	35.2	30.8	43.1	36.5	52.3	42.7	63.2	49.3
355	7.0	7.73	8.7	9.55	10.9	11.8	13.6	14.6	16.2	17.3	16.9	18.0	20.1	21.2	21.1	22.1	26.1	26.9	32.2	32.5	39.7	39.1	48.5	46.3	59.0	54.3	-	-
400	7.9	9.82	9.8	12.1	12.3	15.1	15.3	18.6	18.2	21.9	19.1	22.9	22.7	26.9	23.7	28.0	29.4	34.1	36.3	41.3	44.7	49.6	54.7	58.8	66.5	68.9	-	-
450	8.8	12.3	11.0	15.3	13.8	19.0	17.2	23.5	20.5	27.7	21.5	28.9	25.5	34.0	26.7	35.4	33.1	43.2	40.9	52.3	50.3	62.7	61.5	74.4	-	-	-	-
500	9.8	15.2	12.3	19.0	15.3	23.4	19.1	28.9	22.8	34.2	23.9	35.7	28.4	42.0	29.7	43.8	36.8	53.3	45.4	64.5	55.8	77.3	68.3	91.8	-	-	-	-
630	12.3	24.0	15.4	29.9	19.3	37.1	24.1	45.9	28.7	54.1	30.0	56.4	35.7	66.5	37.4	69.4	46.3	84.6	57.2	102.0	-	-	-	-	-	-	-	-
710	13.9	30.5	17.4	38.0	21.8	47.2	27.2	58.4	32.3	68.7	33.9	71.8	40.2	84.4	42.1	88.1	52.2	107.0	64.5	130.0	-	-	-	-	-	-	-	-
800	15.7	38.8	19.6	48.1	24.5	59.7	30.6	73.9	36.4	87.2	38.1	91.1	45.3	107.0	47.4	112.0	58.8	136.0	-	-	-	-	-	-	-	-	-	-
900	17.6	48.9	22.0	60.9	27.6	75.6	34.4	93.4	41.0	110.0	42.9	115.0	51.0	136.0	53.3	141.0	66.1	172.0	-	-	-	-	-	-	-	-	-	-
1000	19.6	60.5	24.5	75.2	30.6	93.1	38.2	115.0	45.5	136.0	47.7	142.0	56.7	167.0	59.3	175.0	-	-	-	-	-	-	-	-	-	-	-	-
1200	23.5	87.0	29.4	108.0	36.7	134.0	45.9	166.0	54.6	196.0	57.2	205.0	68.0	241.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1400	27.4	118.0	34.4	147.0	42.9	183.0	53.5	226.0	63.7	267.0	66.7	278.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1600	31.3	154.0	39.2	192.0	49.0	238.0	61.2	295.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

POLYETHYLENE PIPES FIREFIGHTING

Firefighting HDPE Pipes

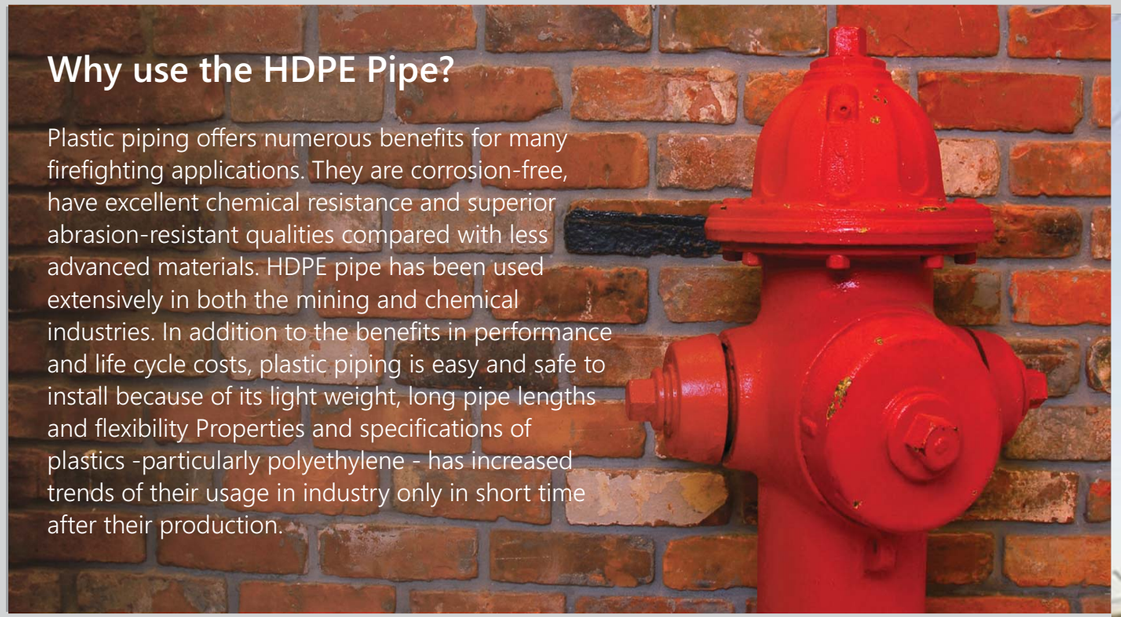
Firefighting pipes which have been defined as the most prominent components in firefighting systems, are countered as one of the important units in power plants. Pars Ethylene Kish as one of the leading companies in producing these pipes and their fittings has been applied in a large number of petrochemical, power plants and construction projects in firefighting network by constructors. Polyethylene firefighting pipes have removed all the problems related to corrosion, lack of strength, hard execution and so many other problems which were unavoidable in old firefighting systems.



HDPE Pipe System

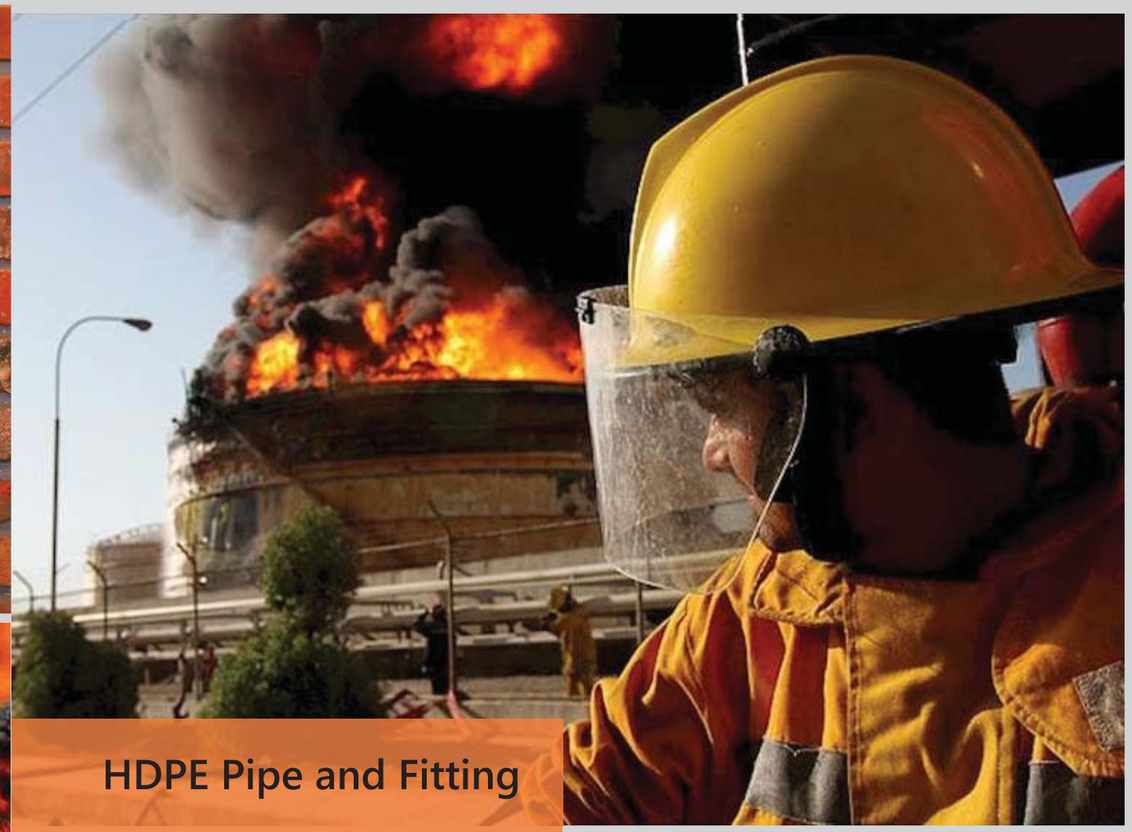
POLYETHYLENE PIPES FIRE FIGHTING

POLYETHYLENE PIPES FIREFIGHTING



Why use the HDPE Pipe?

Plastic piping offers numerous benefits for many firefighting applications. They are corrosion-free, have excellent chemical resistance and superior abrasion-resistant qualities compared with less advanced materials. HDPE pipe has been used extensively in both the mining and chemical industries. In addition to the benefits in performance and life cycle costs, plastic piping is easy and safe to install because of its light weight, long pipe lengths and flexibility Properties and specifications of plastics -particularly polyethylene - has increased trends of their usage in industry only in short time after their production.



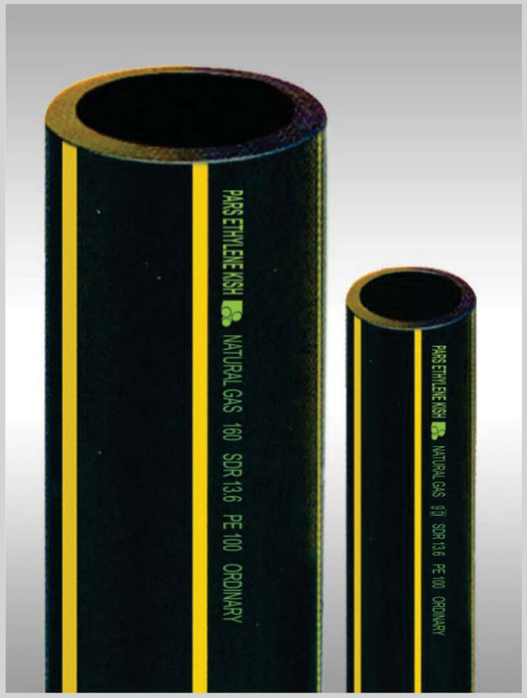
HDPE Pipe and Fitting

Underground pipes need to have high corrosion resistant in high working pressure. Having so many properties like high strength, chemical resistance and anti sediment made them the best option during recent years. Polyethylene firefighting pipes have removed all the problems related to corrosion, lack of strength, hard execution and so many other problems which were unavoidable in old firefighting systems. Pars Ethylene Kish Polyethylene pipes & fittings which are manufactured with the same material (PE 100 original black Borouge,Basell) are suitable for pressure ranges 4...25 bar.

FM
APPROVED

POLYETHYLENE PIPES FIREFIGHTING

POLYETHYLENE GAS PIPE



Gas distribution was among the first applications of high density Polyethylene (HDPE) pipe. In fact, many of currently use systems have been in continuous service since 1960 at a high success rate.
Today, over 90% of the pipes installed for the natural gas distribution industry in the U.S. and Canada are made of plastic, 99% of which are HDPE pipe. ParsEthylene Kish produced PE pipes, are suitable for gas supplies since they reduce cost and time of running projects all over the country.

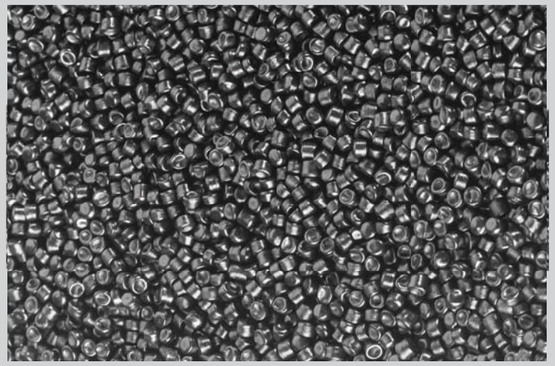
HDPE Gas Pipe Advantage:

- Easy connection
- Flexibility
- Installation advantages
- Resistance to corrosion and chemicals
- Longer lifetime potentials, durability and cost reduction

POLYETHYLENE RAW MATERIAL

HE3490-LS is a black, bimodal, high density Polyethylene classified as a MRS 10.0 Material (PE 100) produced by the advanced Brostar technology. Well dispersed carbon black gives outstanding UV resistance. Long term stability is ensured by an optimized stabilization system. Brostar HE3490-LS is recommended for pressure pipe systems in the applications field of drinking water and natural gas, pressure sewerage, relining, sea outfall and industrial. It is especially designed for the production of larger diameter, thick wall pipe, but can be processed for the whole range of diameters. It also shows excellent resistance to rapid crack propagation and slow crack growth.

بروج
Borouge



NEW GENERATION OF CORRUGATED PIPES

GERMAN TECHNOLOGY

Lighter, more solid and truly higher quality!

PARS ETHYLENE KISH CORRUGATED PIPE-UNDER DROSSBACH LICENCE - GERMANY

Pars Ethylene Kish corrugated pipe systems are produced with DROSSBACH's own corrugated plastic pipe machines of the HD series.

QUALITY CONTROL LABORATORY

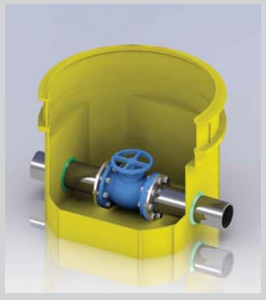
Pars Ethylene Kish Co`s quality control laboratory has been established with the purpose of creating a professional center to provide special facilities to experiment polyethylene pipe and fittings according to the national and international standard. Pars Ethylene Kish laboratory has been assessed and certified as meeting the requirements of ISIRI-ISA/IEC 17025 and certified by National Accreditation Center of Iran (NACI).

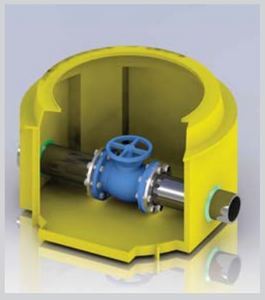
POLYETHYLENE MANHOLE

Polyethylene manhole is the new product of Pars Ethylene Kish, made of the finest raw material with the best design, compare to rival. This product has wide range of applications such as oil, gas and petrochemical industry, power plants and urban transmission pipelines.
Polyethylene manholes are applied in industrial and domestic sewage. Regarding increasing the usage of polymeric products in various global industries, this product is an appropriate alternative to concrete or other construction materials.

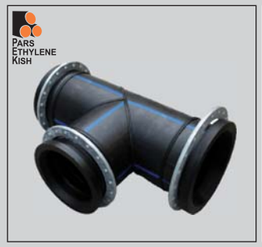
APPLICATION OF POLYETHYLENE MANHOLE

- Polyethylene manholes are a kind of fittings -used for connecting, checking and repairing.
- In transfer network for connecting several sewage pipeline to conduct another route PE, manholes should be applied.
- Also in the telecommunication systems manholes are used to access underground cable routes.
- PE manholes are produced in both traditional and prefabricated, each of them has their own advantages.
- Pars Ethylene Kish PE manholes are the best one comparing to those of rival companies because of using the best PE raw material and design.





ELECTROFUSION FITTINGS



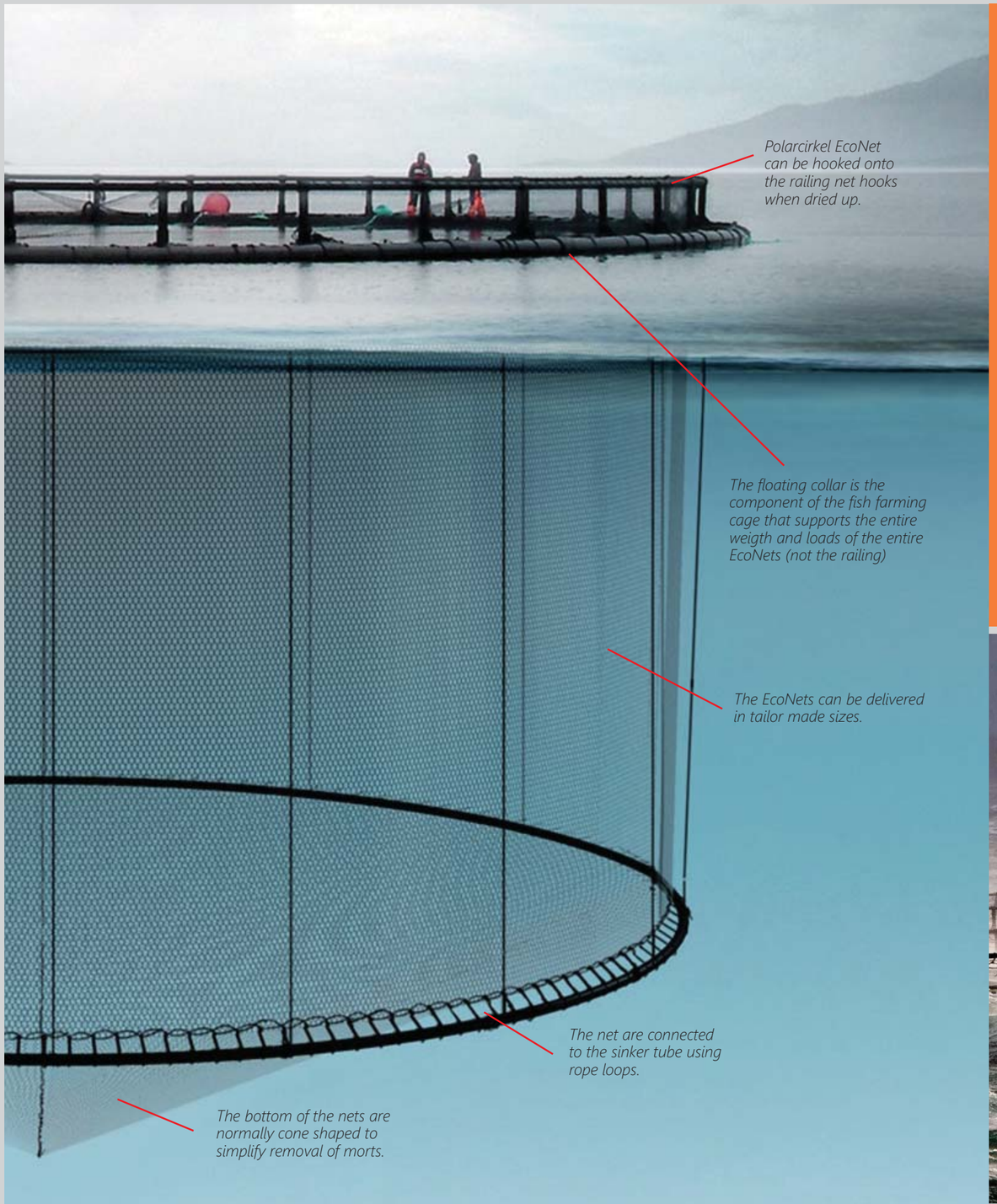
POLYETHYLENE FITTINGS

According to the type of application, same type Polyethylene pipelines require various Polyethylene fittings Polyethylene pipes are used in sewage, water supply, fire systems, cable and gas covering in which each pipe fitting is suitably designed as per application demands. Electro fusion fittings are applied for gas supplies, where as screw fittings are used in water supplies up to 10 ATM pressure & for other projects polyethylene welded fittings are applied according to German DIN16963. It should be noted that the domestic sewage systems do not follow the regulations above. See articles connection methods, for more information.
Pars Ethylene Kish as the oticial and exclusive agent of FOX Fittings Co. -European Company- in Iran and Middle East, supplies a wide range of Electro fusion fittings such as Coupler Elbow 90 and 45, Tee and Tee Reducer, Reducer, Cap, Saddle with different sizes.

FABRICATED FITTINGS

- High resistance to fracture and cracks caused by external pressures
- Impact resistant
- Corrosion and abrasion resistant
- Rust resistant
- High resistance to vibrations earthquake`s.
- Chemical resistant
- Significantly low scum sedimentation due to smoothness of inner and outer walls
- Very low pressure drop due to low friction of internal wall surface
- High flexibility, low cost installation & no special tools required for installing or running the pipelines

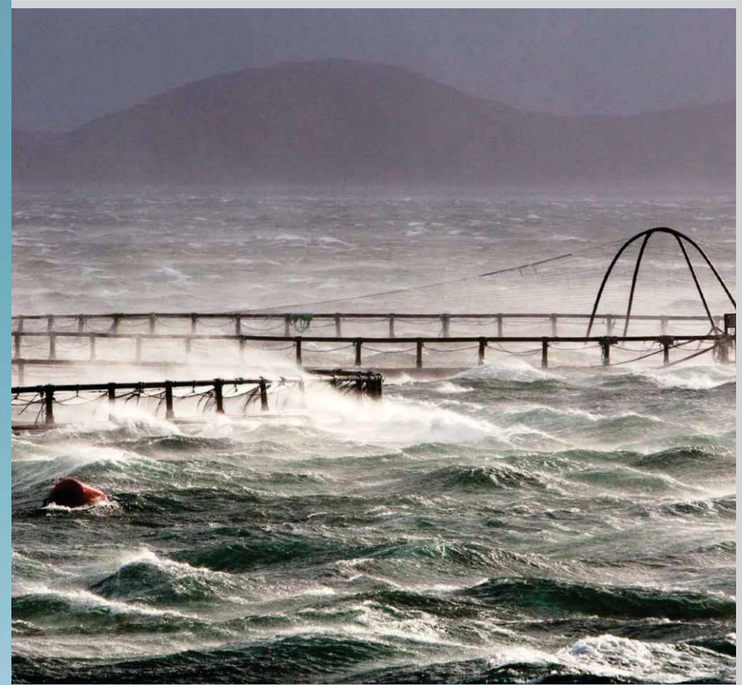
CAGE FARMING - AQUACULTURE



POLYETHYLENE CAGES

Benefits of PE Cage Fish Darming

- Low cost relative to fish farming in earthen ponds or CCTV system Polyethylene cage fish farming.
- Cost effective and user-friendly.
- Ease of observation and study of fish nutrition and health.
- Easy and economical treatment against parasites and diseases.
- Compare to earthen ponds and CCTV system it requires a low budget.
- In case of environmental pollutants and suspended solids, moveable which can be problematic for the cage.



WASTEWATER TREATMENT SOLUTIONS

Why use the SBR system?

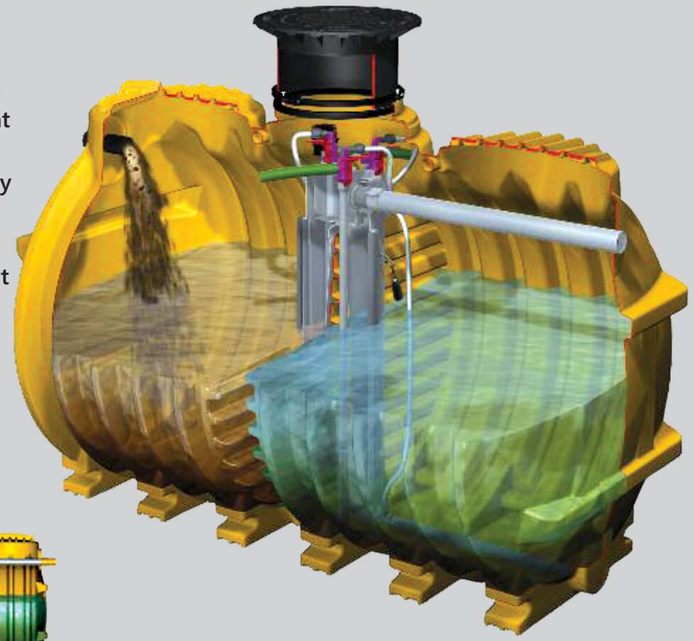
Outstanding cleaning performance
Even during load fluctuations and underload

Excellent value for money
Only 2 chambers required
Can be retrofitted in existing tanks
Only a small tank volume

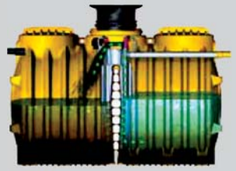
15 years warranty on wastewater tanks
3 years warranty on technology
QUALITY MADE IN GERMANY
CE

WASTEWATER TANK

No live electrical parts in the water, low power consumption optional. Automatic adjustment to living situation, optional remote monitoring high-quality components mean low maintenance costs.
Telescopic cover state of the art manufacturing for maximum stability suitable for vehicle loading in conjunction with telescopic vehicle dome shaft 100% watertight and corrosion resistant.



1 Incoming wastewater
Wastewater enters the pre-treatment chamber where solids settle to the bottom.



2 Filling of Treatment chamber
The pre-treated wastewater is pumped to the treatment chamber.

3 Treatment / Ventilation of waslewater
The 6 hour treatment phase begins - the wastewater is intermittently supplied with bursts of oxygen.

These bursts provide the microorganisms with required oxygen to begin their treatment process (denitrification)

4 Sedimentation phase
After the 6 hour treatment phase a 1 or 2 hour sedimentation phase begins where sludge settles to the base and the treated wastewater clears.

5 Emptying of treated wastewater
The treated wastewater is then pumped out of the treatment chamber.

After 8 hours the complete cycle has ended. In the case that sufficient waste-water is available in the pre-treatment chamber, the entire 8 hours cycle begins again.

In the case that no or little wastewater has been collected, the *Inno-Clean*$^{+}$ automatically goes into energy savings mode.

6 Sludge transfer
Excess sludge is returned to the sludge storage tank

Can be istalled in groundwater sequencing batch reactors use a separate pre-treatment section to mechanicaly hold back solids and a biological aerationand settling tank.
SBR wastewater treatment system clean incoming waste-water over a number of cycles.

15 years warranty on wastewater tanks
3 years warranty on technology
QUALITY MADE IN GERMANY
CE

APPROVALS & CERTIFICATES

The agreement between Pars Ethylene Kish and Norway country has signed in presence of Iran's Minister of Agriculture Mr.Mahmoud Hojjati

Conformity to quality Standards

We achieved standards and certificates, including:

- National Iranian standard number 14427
- 17025 Certificate
- Cerificate competence of coworker laboratory
- ISO 9001 Quality managment certificate
- ISO 14001 environmental management certificate
- HSE hygiene, safety and environment requirements
- Polyethylene drinking waterHygiene certificate
- Road and city planning research center Technical certificate
- FM approval certificate

QUALITY IS NOT BY GHANCE

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