

PRODUCT GUIDE



Pipelife, a leading supplier of plastic pipe systems, is globally active in more than 26 countries.

Secure plastic pipe systems are of increasing importance for the transportation of water, other liquids and gases but also as firm cover for energy and information supply.

This is our contribution to the improvement of society – worldwide.

The variety of standards covered by our product range represents high and consistent quality of our products, and being supplied by a reliable and caring manufacturer ensures customer satisfaction.

Our customers' expectations are different and change over time. Therefore our development efforts are focused on the simplification of our customer's life.

Our experts are present in all the different markets, know the local conditions and are aware of special requirements and needs.

Our solutions are intended to reduce handling efforts, shorten installation time and improve the life of our customers and their clients.

We are willing and able to work with our customers for all the applications covered by our product range, from standard solutions for civil- and structural engineering up to tailor-made solutions for industrial purposes.

This Product Guide is intended to provide an overview of our products divided into twelve applications.

For further and more detailed information please contact the following person. We are glad to provide you with the optimal solution for your needs and wishes.



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FRESH WATER

Eau potable / Trinkwasser

FRESH WATER Product Range

For the transport of potable water Pipelife offers solutions in the diameter range from 12 up to 1600 mm in accordance with existing national standards in most European countries, the USA and China. Pipelife is also specialized in the manufacture of large diameter PE pipes. This range includes spigot-ended pipes with gaskets and also plain-end pipes, linked via couplers for rapid connection.

Pipelife is recognized as a leader of quality pipe systems and solutions can be supplied with the most prestigious quality marks such as NF, DVGW, KIWA and NSF. PE pipes are supplied in coils up to a diameter of 125 mm, but we can also supply in straight lengths of 6 and 12 meters. Next to the PE delivery-program Pipelife offers complete PVC pipe systems in the diameter range 12 mm up to and including 630 mm in accordance with the majority of local and international standards.

PE Product Range

Diameter	PE 40	PE 80	PE 100
12	●		
16	●		
20	●	●	●
25	●	●	●
32	●	●	●
40	●	●	●
50	●	●	●
63	●	●	●
75		●	●
90		●	●
110		●	●
125		●	●
140		●	●
160		●	●
180		●	●
200		●	●
225		●	●
250		●	●
280		●	●
315		●	●
355		●	●
400		●	●
450		●	●
500		●	●
560		●	●
600		●	●
630		●	●
710		●	●
800		●	●
900		●	●
1000		●	●
1200		●	●
1400		●	●
1600		●	●

PVC Product Range

Diameter	SDR51	SDR41	SDR34	SDR26	SDR21	SDR14
12						●
16					●	●
20					●	●
25					●	●
32					●	●
40					●	●
50			●	●	●	●
63	●	●	●	●	●	
75	●	●	●	●	●	
90	●	●	●	●	●	
110	●	●	●	●	●	
125	●	●	●	●	●	
160	●	●	●	●	●	
200	●	●	●	●	●	
250	●	●	●	●	●	
315	●	●	●	●	●	
355		●	●			
400	●	●	●	●	●	
450			●			
500	●	●	●	●		
630	●	●	●			

SDR51=PN5 / SDR41=PN6,3 / SDR34=PN7,5 / SDR26=PN10
SDR21=PN12,5 / SDR14=PN16

Water PE

PE40		PE 80		PE 100	
SDR	PN	SDR	PN	SDR	PN
9	6	26	5	17	10
		21	6,3	13,6	12,5
		(17,6)	7,5	11	16
		17	8		
		13,6	10		
		11	12,5		

Standard range according to EN 12201:
SDR 9 / 11 / 13,6 / 17 / (17,6) / 21 / 26 / 33 / 41





Fittings

	PVC with gasket	PVC glue	PE 80	PE 100
Bends (various angles)	●	●	●	●
Couplings	●		●	●
T-pieces	●	●	●	●
Reducers (various dimensions)	●	●	●	●
Endcaps		●	●	●

This table can only give a broad overview over the range of fittings available. For further information and details please refer to the contacts given in the introduction.

FRESH WATER

Fittings

Specialities

Large Diameter Pipes

Push-Fast System

Specialities



Large Diameter Pipes (1600 mm)

Pipelife offers pipes with diameters up to 1600 mm and long lengths up to 700 m. These pipes are extruded directly into the water for transportation and installation. They are used for marine applications, like Marine Outfall, Submarine Potable Water Pipelines and Water Intakes, as well as for on-shore applications, like re-lining of old pipelines, Potable Water Transmission Lines and transportation of tailings.



Push-Fast System

The unique Push-Fast System combines the advantages of polyethylene material with the spigot and socket jointing technique, known from PVC-U systems. Unlike other systems, the Push-Fast socket incorporates a „grip“ ring, which makes the system restraint. Push-Fast pipes and sockets are made from PE 100 and easy to install. The system is well approved in all situations, where welding is not possible due to bad weather conditions or the lack of trained welding personnel. Push-Fast pipes and a wide range fittings are available in:

PN 16: diameter 90, 110, 125, 160 mm

PN 10: diameter 225 mm

Pipe length: 6 or 12 m



For further information on the Large Diameter Pipes please contact:

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For general information on Fresh Water Systems please contact:

E-mail: freshwater@pipelife.com



ROBUST PIPE

ROBUST PIPE Product Range



What is Robust Pipe

- Robust Pipe is a new PE pipe generation designed to offer significant benefits to installation companies and utility companies in terms of cost savings and additional security.
- Robust Pipe is a double wall pipe. The internal wall is made of standard PE according to European and local specifications. The outside wall is made of foamed PE. This outside layer acts as a protective cushion around the internal pipe. It protects the internal pipe from abrasion, scoring and damage from the moment of manufacture right up to installation, and beyond.
- Robust Pipe has been designed with particular attention to resistance against rock impingement. The effect of an external layer of foamed PE spreads the stress of rock impingement over a larger area and helps to protect the internal pipe from damage.

Why use Robust Pipe

- Installation costs of polyethylene pipes are increasing, as environmental legislation makes its impact on building regulations.
- Laying a PE pipe in sand is the conventional method of preventing damage to the transport pipe. Robust Pipe can be installed without using a sand bedding (* see installation guide). This has a tremendous impact on total installation costs. This means soil disposal and sand costs are decreased, and in addition the speed of installation is increased.

Product Range PE 100

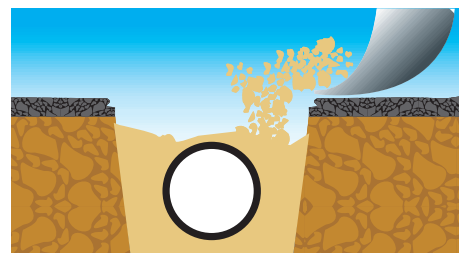
Diameter	SDR 17	SDR 11	Packaging
32	●	●	50 m Coils
40	●	●	50 m Coils
50	●	●	50 m Coils
63	●	●	50 m Coils
75	●	●	50 m Coils
90	●	●	Coils or straight length
110	●	●	Coils or straight length

Product range is subject to change. Please contact your local Pipelife company for further details.

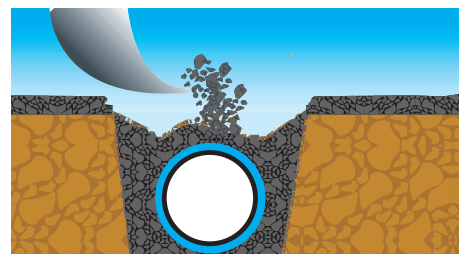
Where to use Robust Pipe

Conventional Installation

- Robust Pipe can be used for all pressure applications, such as water, gas, telecommunication and pressure sewage. The external colour can be changed to suit local requirements.
- It is particularly advantageous to use Robust Pipe in urban areas where installation costs are highest and traffic disruption is worst.



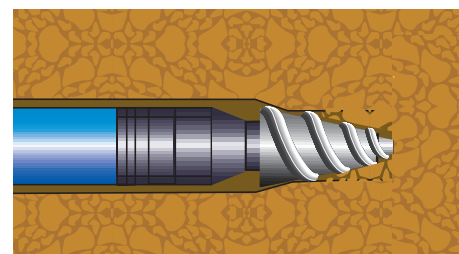
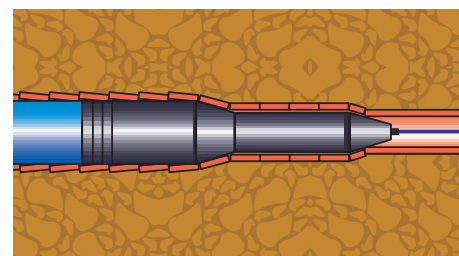
Conventional installation with sand



Installation without sand. According to trials carried out by customers using Robust Pipe can save up to 25 % on the total installation cost. Details available upon request.

No Dig Installation

- Robust Pipe can be used with the most recent trenchless installation technologies. Supplied in coils, or bars to be butt fused to make strings, the Robust Pipe may be used in the confidence that the Robust layer will absorb most, if not all, of the abrasive forces.



Example of Pipe bursting. Other techniques such as mole ploughing, directional drilling, of slip lining may use Robust Pipe



How to weld

■ A special peeling tool has been developed by Pipelife to peel back the outer layer and expose the inner layer for welding. The peeling tool is lightweight and easy to use,

both for peeling a pipe end, or making a window cut for a saddle. The tool has been designed to prevent damage on the surface of the inner pipe. Included within each tool is also a spare blade.



Measure and mark the pipe.



Insert the blade between the outside and internal layer.



Using small pumping movements bring the peeling tool down to the mark.



Rotate the peeling tool keeping a firm grip with the thumb, and peel around the pipe.



Pull off the peeled layer.



Exposed internal layer ready for scraping and welding.

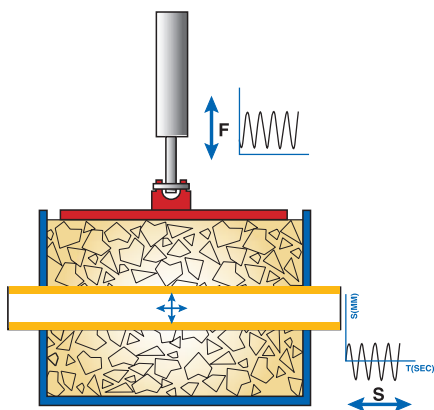


ROBUST PIPE

Test Conditions

The Robust Pipe has been subjected to rigorous testing both in laboratory and field conditions of the most aggressive nature.

1) Long term box loading test, Vienna University (TUW)



BOX-LOADING TEST AT TUW

Dynamic vert. Load

- Fmin 10 kN
- Fmax 100 kN
- f=1Hz; 10 000 times

Horizontal Movement

- s=+-15 mm
- 1 cycle within 3 min

Pressure

- pi=pN (10 bars, at 20°C)

2) Field Test Austrian Alps

- Robust Pipe tested in a quarry at depth of 35cm and 80cm
- Bedding material: sharp rocks with average size 6cm length
- Test duration: 29 weeks
- Climatic conditions: winter
- Above ground conditions: slow moving wheel loads with axle weights of up to 60 tons.

Benefits

- Installation cost saving
- Protected pipe during transport and on site
- A clean pipe after peeling for welding
- Faster installation time request



For general information on Robust Pipe please contact:

E-mail: robustpipe@pipelife.com



SEWERAGE

Assainissement / Abwasser

SEWERAGE Product Range










When it comes to the transportation of waste water, secure and tight pipe systems are core requirements to prevent pollution of our planet. For the transportation of surface water and domestic waste water Pipelife offers several systems produced in PVC, PP and PE. Both compact as well as structured wall systems are available in all materials. In PVC a comprehensive range of pipes and fittings is available in diameters of 110 up to 630 mm in SN4 and SN8. The system is completed with specialities such as T-pieces, lateral inlets and adapters to concrete pipes. In polypropylene Pipelife developed Pragma®, a highly resistant double wall system available up to 630 mm, designed to meet the requirements of municipal sewerage. The unique

coupling technique allows easy handling and installation. High performance pipes in PE for pressurized sewerage are produced in diameters from 110 up to 400 mm. For special applications such as marine outfall installations Pipelife offers PE systems of up to 1600 mm produced in lengths of up to 500 m. All Pipelife sewer systems are in compliance with national and international standards.

Depending on the material used Pipelife offers systems in all common classes of ring stiffness.

For polyethylene pressure pipes Pipelife can provide systems with pressure resistance of up to PN 20.

Product Range

PIPES									
	PVC Compact	PVC Structured wall	PVC Twinwall	PE Compact	PE Twinwall*	PP Compact	PP Twinwall Jumbo PP	PP Twinwall Pragma	PP Coex M 12
110/DN 100	●	●		●		●			
125	●	●		●		●			
160/DN 150	●	●		●		●	●	●	●
200	●	●		●	●	●	●	●	●
250	●	●	●	●		●	●	●	●
300					●				
315/DN 300	●	●	●	●			●	●	●
355	●			●					
400	●	●	●	●	●		●	●	●
450	●			●					
500	●	●	●	●	●			●	●
600					●				
630	●	●		●				●	
1600				●					

* D_i



Pragma Pipe



SEWERAGE

Assainissement / Abwasser



Fittings

	PVC Compact	PVC Structured wall	PVC Twinwall	PE Compact	PE Twinwall*	PP Compact	PP Twinwall Jumbo PP	PP Twinwall Pragma	PP Coex M 12
Bends (various angles)	●	●	●	●	●	●	●	●	●
Branches	●	●	●	●	●	●	●	●	●
Double/Repair Sockets	●	●	●	●	●	●	●	●	●
T-pieces	●	●	●	●	●	●	●	●	●
Reducers (various dimensions)	●	●	●	●	●	●	●	●	●
Endcaps	●	●	●	●	●	●	●	●	●

This table can only give a broad overview over the range of fittings available. For further information and details please refer to the contacts given in the introduction.

Specialities

PP MASTER

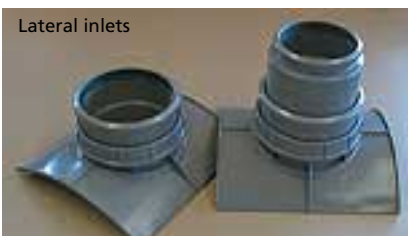
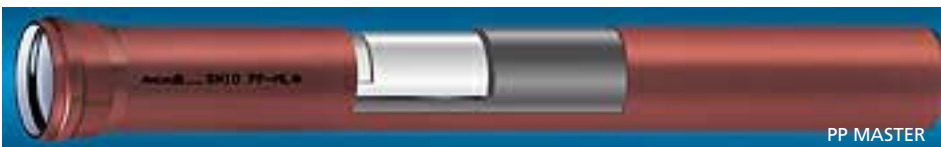
PP MASTER is a 3-layer, smooth sewer pipe system made of polypropylene (PP) especially designed for public waste water engineering. PP fulfills the strictest requirements with regard to technology and environment. The PP MASTER is an exceptional product with the high stiffness class SN 12 and comparably low wall thickness. Furthermore, the specially designed socket enables enhanced installation properties.

The carefully selected high-tech polypropylene quality in the inside layer makes the PP MASTER particularly abrasion resistant.

Additionally, PP MASTER is also approved for installation at temperatures as low as -10°C .

Other Specialities

Additionally to pipes and fittings Pipelife offers an extended assortment of accessories like inspection chambers, manholes and lateral inlets to name just some of them.



For general information on sewerage systems please contact:

E-mail: sewerage@pipelife.com



INSPECTION CHAMBERS

Regards / Kleinschacht

INSPECTION CHAMBERS Product Range



The manhole concept has remained unchanged for more than 100 years. The basic function was to provide an access point into sewer or storm drain systems that is large enough to allow people to enter it and perform inspection and cleaning procedures manually. Due to technology advances, the need for entry into a manhole to perform routine maintenance operations has almost disappeared.

More than fifteen years ago leading European companies have introduced non-man entry sewer and storm drain network access chamber systems. During the last decade non-man entry Inspection Chambers have replaced more than 40% of traditional manholes installed in Europe. As the leader in the industry, Pipelife has developed a complete Inspection Chamber product range to follow the technological advances in both function and materials. Since historically the long-term performance of concrete, particularly in corrosive environments, has not met its expectations, the need for a polymer Inspection Chamber System has increased. PVC/PP sewer pipes have gained the major portion of the sewer and storm drain system market, so it's natural to make the change to a polymer IC system. They provide a long lasting, cost effective alternative to concrete, and also reduce the dangers involved in human entry into confined spaces.

Pipelife IC system consists of the following parts:



Pipelife IC system is designed to provide access into sewer or storm drain systems for inspection, cleaning and sampling. Inspection Chamber System allows carry out all maintenance work from the ground level. Common uses include:

- TV inspection access points
- line clean-out access
- interim access points in long pipe sections
- effluent sampling stations
- monitoring pits

Designed to accommodate efficient easy entry and survey of collection systems with Closed Circuit Television (CCTV)

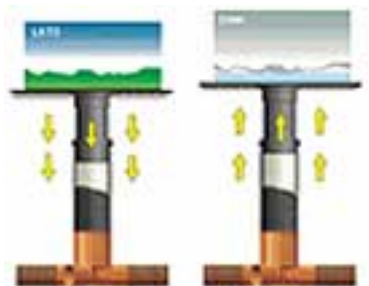


Pipelife IC systems have the following advantages:

- Economical compared to conventional manholes
- Leak proof gasket socket joints, 100% tightness
- Lightweight, resistant to shipping damages
- Fast and easy conventional installation procedures designed for the depths down to 8 m
- 2% slope and smooth internal surface guarantees excellent hydraulic properties
- Cast iron cover locked in frame to prevent unauthorised access and noise under traffic
- Carriage of heavy traffic load



- Carriage of load during seasonal air temperature fluctuation



- Excellent performance in high groundwater level environment
- Easy cleaning due to smooth interior, convenient access and use with high pressure water jetting in removing sedimentation or blockages with in collection systems
- Resists damage from mechanical cleaning equipment

INSPECTION CHAMBERS

Regards / Kleinschacht



- Easy withstands earth loads, high resistance to mechanical impact
- Height easy adjustable during installation or road surface renovation
- Smooth interior reduces cleaning frequency
- Convenient for pipe network Air or Vacuum testing
- Excellent Environmental Stress Corrosion Resistance
- Corrosion resistant and suitable for installations in chemically aggressive environments

INSPECTION CHAMBERS

assortment



concrete cover 400
concrete frame with iron cover 400
telescope T 05D - 5 t
telescope T 30 - 12,5 t
telescope T 30 K - 12,5 t with grid
telescope T 40 - 40 t
telescope T 50 K - 40 t with grid



riser pipe 400 / 2 m
riser pipe 400 / 6 m
straight through chamber 160 / 400
straight through chamber 200 / 400



riser pipe 400 / 2 m
riser pipe 400 / 6 m
straight through chamber 250 / 400
straight through chamber 315 / 400
straight through chamber 400 / 400



riser pipe 400 / 2 m
riser pipe 400 / 6 m
straight through chamber 500 / 400
straight through chamber 630 / 400



riser pipe 400 / 2 m
riser pipe 400 / 6 m
inspection chamber 110 / 400
inspection chamber 160 / 400
inspection chamber 200 / 400



PP DW riser pipe 400 / 2 m
PP DW riser pipe 400 / 6 m
inspection chamber 160 / 400
inspection chamber 200 / 400

Additional Inlets for straight through chambers

d_n (mm): 110 | 160 | 200 | 250 | 315



Inspection Chambers 200 mm for PVC smooth pipes with PVC smooth riser pipe



concrete cover 200
telescope T 20 - 40 t / 200
riser pipe 200 / 2 m
riser pipe 200 / 6 m
inspection chamber 110 / 200
inspection chamber 160 / 200
inspection chamber 200 / 200



For general information on Inspection Chambers please contact:

E-mail: sewerage@pipelife.com



SOIL

Bâtiment / Hausabfluss

SOIL Product Range

The Pipelife range of products for soil and waste consists of several systems. Depending on the local preferences we offer systems of materials as PVC, PP and PE which can be connected by solvent cement, gaskets or welding.

A complete range in PVC grey color is available in diameters 32 up to 200 mm. The pipes are produced in solid and structured wall design with the option of sockets on the pipes.

They can be connected either by solvent cementing or gasketed fittings of PVC.

The solvent cement system is even available in the M1 quality (fire resistance classification in France).

The Pipelife PP product line is based on fittings with gaskets, which will be either locked or removable. Pipes are socketed and available in a wide variety of lengths. The PP

systems have diameters from 32 to 160 mm in black, white and grey color.

A special PP fitting is Slimline, a white fitting based on a recent innovation in production technique. This gives the fitting an aesthetic shape making it an ideal product for top-of-the-wall installation, for example in bathrooms and toilets.

We also offer systems of PE. Depending on the application they may be connected by electro-fusion or butt welding, screwing, compression or gasketed fittings. A similar system is also available in PP. Both will be supplied in black color.

These systems are in compliance with the most important national and international norms, e.g. EN 1329, EN 1451, KOMO, NF, DIN, ISO 767, ISO 8773, NS 3630, SS 3604, etc..

Product Range

Diameter	PVC	PP
32	●	●
40	●	●
50	●	●
63	●	
75	●	●
80	●	
90	●	●
100	●	
110	●	●
125	●	●
160	●	●
200	●	



PP System Slimline
with co-injected sealing ring



Soil system



SOIL
Fittings
Specialities
Rain Gutters
Other Specialities

Fittings

	PVC glue	PVC gasket	PP gasket	PP welding	PP co-injection
Bends (various angles, socket/spigot)	•	•	•	•	•
Couplings Double socket	•	•	•		•
Repair coupling	•	•	•		•
Repair socket			•	•	
Branches	•	•	•	•	•
Inspection piece	•	•	•		
Reducers (various dimensions)	•	•	•	•	•
Endcaps	•	•	•		

This table can only give a broad overview over the range of fittings available. For further information and details please refer to the contacts given in the introduction.

Specialities

Rain Gutters

Pipelife offers a complete range of products for collection and transportation of rainwater. The range covers gutters, unions, brackets, stop ends, down pipes, elbows, couplers and reducers. These products are available in grey and white but other colors can be produced on request.

The gutter fittings include a gasket, which is compressed when the fitting and gutter are joined together, ensuring a tight connection. This type of coupling allows the gutter to slide during expansion and contraction due to temperature changes whilst maintaining its tightness.

Due to their design the different elements can be installed by hand without the need for mechanical means.

PP System Eurosocket with loose gasket



Other Specialities

In addition to these systems Pipelife offers a wide range of products made for specific markets or countries. Examples include gullies, siphons and systems for the collection of rain water and treatment or infiltration of domestic waste water.

We can also give you advice on the system to be used, installation techniques and capacities needed. Please contact the local Pipelife company for further information.



PVC Solvent cementing fittings

PVC rain gutter



PP System Nordic with locked gasket



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**For general information
on soil systems
please contact:**

E-mail: soil@pipelife.com



HOT&COLD

Eau chaude, Eau froide / Heiß & Kalt

HOT&COLD Product Range Fittings



The PIPELIFE range of products for Hot & Cold consists of several systems. Depending on the local preferences and applications we offer following systems:

- PP-R (Polypropylene Random Copolymer)
- PP-R/AL/PP-R (PP-R Aluminium Composite)
- PEX (Cross-linked Polyethylene)
- PEX/AL/PEX (PEX Aluminium Composite)
- PB (Polybutylene)

The superior physical characteristics of all these systems make them ideal for all Hot & Cold applications like:

- Sanitary systems
 - Under-floor heating
 - Radiator Connections
 - Industrial piping systems
- Their common advantages are:
- Durable and safe
 - Reduces the installation cost
 - Hygienic for drinking water
 - Long service life
 - Corrosion free and high resistance to the attack of chemicals
 - Easy to carry, cut, connect and install

Product Range

Diameter	PP-R	PP-R/AL/PP-R	PEX	PEX/AL/PEX	PB
16	●		●	●	●
18			●	●	●
20	●	●	●	●	●
25	●	●	●	●*	●
32	●	●	●	●	●
40	●	●	●	●	●
50	●	●	●	●	●
63	●		●		●
75	●				●
90	●				●
110	●				●

*OD = 26

Fittings

Pipelife offers a full range of fittings for all systems.

PP-R fittings

To connect the PP-R pipes to the fittings poly-fusion welding technique is widely used. For the connection of PP-R piping system to conventional systems, Pipelife offers a wide variety of threaded fittings.

All PP-R fittings are designed for PN20 pressure classification and the fittings program covers sockets, t-pieces, elbows, reducers, adaptors, unions etc. In addition to these fittings Pipelife also provides equipment such as welding machines, welding dies, pipe shavers, valves, etc.

PEX fittings

Pipelife offers a wide variety of metal fittings

to use for PEX piping system depending on customers' preferences beginning from the manifold to the tap connector or valves.

PB fittings

The main advantage of polybutylene is the multitude of jointing techniques. The polybutylene fittings system comprises clamp-connections in diameters 16 to 25 mm, partly 75 mm, polyfusion welding (DA 16 to DA 110), electro-fusion welding (DA 16 to DA 110), compression fittings (DA 16, DA 18, DA 20). Accordingly polybutylene is the sole material, that can be connected with all kinds of jointing techniques provided by the out-standing characteristics of the material. These superb preconditions enable easy handling and perfect installing.



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For general information
on hot&cold systems
please contact:

E-mail: hotandcold@pipelife.com



Specialities

Greenlife®

Greenlife® PP-R pipes and fittings are made of High Molecular Weight Polypropylene Random Copolymer (PP-R) Type 3 suitably stabilized for high temperature applications and especially with high environmental stress cracking resistance that means long service life. Due to its high extraction resistance it does



not change the organoleptic properties of water. PP-R pipes have smooth internal surfaces and are not suitable for algae and scale formation and minimize the pressure losses.

Greenlife® pipes also available with un-perforated aluminum foil which makes them more stable compared to other plastic pipes, in addition they have a 100 % oxygen barrier on the pipes. This oxygen barrier keeps the heat loss very low and therefore enables a more economic use of energy and less corrosion occurs in the system as well. Therefore, aluminum-foiled Greenlife® PP-R pipes are the best choice for radiator and boiler systems.

Pipelife Floortherm

Floor heating is one of the modern ways to heat private homes. Due to the design a large heating surface is provided and water temperatures can remain relatively low. The maximum floor surface temperature reaches about 28°C, which is way enough to create a homely, warm atmosphere.



Floortherm

Due to floor heating being a low temperature system, energy consumption and therefore costs can be reduced. Another advantage of this heating system is the fact that it causes only little dust movement: Carpets and curtains remain clean.

Pipelife offers all required components and accessories.

Instaflex

The system Instaflex uses polybutylene pipes and enables the customer to install a complete plastic pipe system with diameters from 16 to 110 mm and three different connecting methods: click system, butt welding and electro welding. Instaflex guarantees corrosion resistance and meets all requirements of a modern system for potable water transfer. Polybutylene ensures a high sound absorption and has an expected life time of 50 years and more.

Radopress and Radotherm

Radopress and Radotherm are radiator connecting systems that differ in their connection techniques, but can nevertheless be combined. This offers customers a great variety of possible installations. Radotherm polybutylene pipes are flexible and ensure a 100% oxygen barrier while the Radopress multilayer pipe (consisting of five layers) is form stable. In addition, Radopress also has a 100% oxygen barrier and resists temperatures up to 95°C at a pressure of 10 bar.

Pexlife®

Pexlife® is a trade name of Pipelife's cross-linked polyethylene pipes. It is manufactured and tested in accordance with the related international standards.

During production the tubing is constantly monitored and tested by in-house quality control personnel, ensuring highest quality.

The main advantages of Pexlife® pipes are high resistance to corrosion, abrasion and chemicals, perfect performance at high pressure and high temperature and a long service life. Due to delivery in coils, Pexlife® is easy to install and limits the requirements for fittings. No electricity or heat needed for installation and maintenance free piping.

These advantages make Pexlife® durable, ensure high safety, decrease installation costs and contribute to a comfortable living. Pexlife® is the ideal choice for hot & cold water system, under-floor heating and radiator connections.

HOT&COLD
Specialities
 Greenlife®
 Pexlife®
 Floortherm
 Instaflex
 Radopress
 Radotherm



Radopress



Instaflex



DRAINAGE

Drainage / Dränage

DRAINAGE Product Range

In agriculture the use of drain pipes becomes especially necessary in case of water saturation due to either an insufficient absorption capacity of the soil or to a high salinity level of the land. The application of drain systems allows the ventilation of the roots, increase of the temperature and the regeneration of the soil. It also reduces the appearance of parasitic plants and enhances the permeability of the ground. The final result is an improvement of the output.

Drain systems are also usefully applicable for non-agricultural installations such as sport courts, gardens, green areas or roads, highways, railways and aerodromes.

Whatever your needs may be - Pipelife offers the perfect solution!

For all these applications a wide range of PVC pipe systems both corrugated and smooth is available.

The advantages of our systems are:

- flexibility
- light weight
- resistance to aggressive soil
- high chemical resistance
- high shock resistance
- easy and economical installation

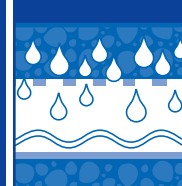
In some cases, such as road construction, totally different material characteristics are required. Pipelife takes that into account by offering systems in high density polyethylene (HDPE) and polypropylene (PP).

The PVC and the PE pipes can also be supplied "wrapped" which serves as a filter and ensures excellent drain-efficiency for a long period. Depending on the composition of the ground natural fibers (e.g. coco) as well as artificial materials (i.e. polyester, polystyrene, polypropylene) can be provided as wrapping.

Product Range

Diameter	PVC (smooth or corrugated)	PE (smooth or corrugated or Twinwall)	PP (Twinwall)
50	●	●	
60	●		
65	●		
70	●		
80	●	●	
90		●	
100	●	●	
110	●	●	●
125	●	●	●
150	●	●	
160	●	●	●
200	●	●	●
250	●	●	●
300	●	●	●
315	●	●	●
350	●		
400	●	●	●
500	●	●	●
600		●	
630			●





DRAINAGE

Fittings

Specialities

No Dig Drain

Other Specialities

	PVC (smooth or corrugated)	PE (smooth or corrugated or Twinwall)	PP (Twinwall)
Bends (various angles)	●	●	●
Couplings	●	●	●
T-pieces	●	●	●
Reducers (various dimensions)	●	●	●
Endcaps	●	●	●
Inspection chambers	●	●	●

This table can only give a broad overview over the range of fittings available. For further information and details please refer to the contacts given in the introduction.

Specialities

No Dig Drain

No Dig Drain is a drainage system that can be installed underneath existing buildings and other areas by means of horizontal drilling techniques. Trenchless installation ensures minimal disturbance of the infrastructure surrounding the working site. The main fields of application are soil and groundwater recuperation, air purging and extraction of soil vapor, as well as monitoring of ground water (e.g. under existing waste deposits).

The system consists of a smooth PE coated pipe and an internal PE filter pipe. Through the perforated pipe fluids can be pumped, vapors can escape.

This highly innovative technique is especially applicable for the following areas:

- cleaning of soil underneath buildings, installations and non accessible areas
- monitoring of groundwater under existing waste deposits and gas stations
- air purging and extraction of soil vapor
- infiltration of biomass
- temporary drainage systems on and near infrastructures such as sewage, building sites, golfcourses, etc.



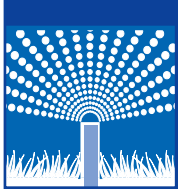
Other Specialities

Pipelife offers also other specialities like Ecosystems, water management systems and taylor made solutions.



For general information
on drainage systems
please contact:

E-mail: drainage@pipelife.com



IRRIGATION

Irrigation / Bewässerung

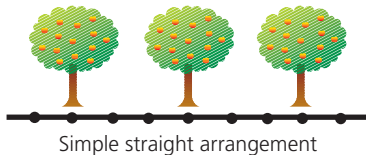
IRRIGATION

Agricultural Irrigation

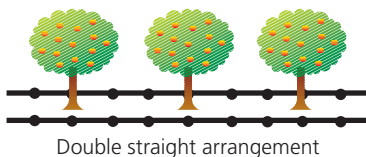
Sprinkler Irrigation

Drip Irrigation

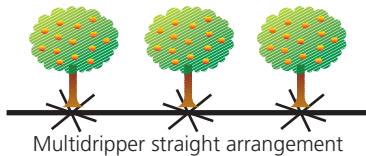
Possible drip line arrangements



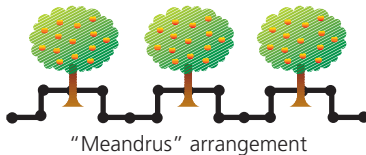
Simple straight arrangement



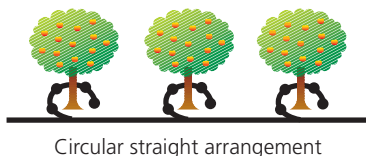
Double straight arrangement



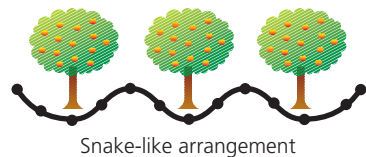
Multidripper straight arrangement



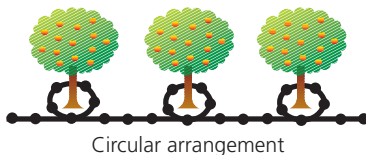
"Meandrus" arrangement



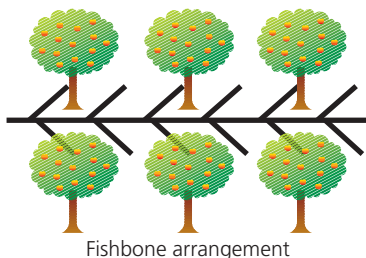
Circular straight arrangement



Snake-like arrangement



Circular arrangement



Fishbone arrangement

Wherever plants grow, water is the necessary element to enable their survival.

Pipelife takes all the possible circumstances like climate, temperature or amounts of water required into account, and offers a large

variety of irrigation systems for numerous purposes. Whether it is watering gardens, sports fields or agricultural areas, Pipelife has the perfect solutions.

Agricultural Irrigation

Free flow irrigation systems were mainly used in the past because of their simplicity. The water is just guided to the field and spreads by itself. Unfortunately this irrigation method leads to a water loss of about 50%. Therefore two alternative irrigation methods have been developed: Sprinkler and drip irrigation.

Sprinkler irrigation has gained increasing importance in modern irrigation applications. With its technique, water is sprinkled in the form of rainlike homogenous droplets in controlled amounts.

The sprinkler irrigation system offers a wide range of advantages:

- The utilized output is high. Optimized advantage can be obtained from water where irrigation water is scarce (3-5l/sec).
- Without causing erosion, it can be used in places with steep slopes and/or where the topography is irregular. It is the ideal irrigation method where soil is shallow and conductivity is low.
- As water is introduced in fine, rain-like droplets, productivity is high.
- Minimization of installation and labor costs.
- Especially in places near the sea, salt particles, dusts and harmful insects carried by winds can be washed away.
- As controlled water quantities can be introduced, it accounts for the most adequate irrigation system when draining problems (e.g. high leveled groundwater) are existing.
- Plantation areas increase by the fact that no ditches on the fields are necessary.
- Artificial fertilizers may be administered

together with irrigation water. Soluble, solid, liquid and composed fertilizers may be injected into the water by various means and applied accordingly. In such systems irrigation is maintained after fertilization and residues in the pipes and sprinklers are washed away. Additionally, fertilizer remnants on the leaves are dissolved.

- Also protection against frost is achievable through sprinkler irrigation. In calm, cloudless and clear weather the coldest air layer remains closest to the ground. The temperature difference at 50-60 cm high from ground attains 4-5°C. In such cases, the cold air over the soil, the warmer slightly above and sprinkling water are mixed to prevent damages from frost. Sprinkling increases relative humidity of the air, thereby improving protection against frost.

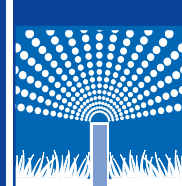
The Quick Coupling Sprinkler Irrigation System is very economically. The inherent low cost is easily recognized when all parts of the system are considered as a whole. Parts can be replaced and this in turn increases economical life of the system.

The Quick Coupling HDPE pipes used for sprinkler irrigation are produced in diameters of 75 mm, 90 mm, 110 mm and 125 mm and are resistant to external loads that may impact during transport and handling in the field. The pipes hardly break and the pipe connection heads are cracking resistant. Clamps are designed to withstand twice the nominal pressure. The system adapts to all types of landscape. Pipelife offers also a great variety of fittings, like T-pieces, elbows, end-caps, hydrants, swan necks, reducers and valves.



IRRIGATION

Irrigation / Bewässerung



Drip irrigation is a rather new irrigation method and offers remarkable advantages compared to other irrigation systems:

- low fungus diseases effect due to irrigation directly to root system
- limited weed appearance around the plants
- very effective irrigation system for sandy soil, inclined and windy areas
- highly efficient water utilization
- low-pressure operation is possible, which leads to savings in energy.
- last but not least, drip irrigation helps to save labor costs.

To prevent the drippers from obstruction, it is very important that an excellent filtration system is installed.

The system functions as followed: Water enters the dripper through the filter, where small stones and other spoil are sorted out. The water flows through the pipe system and drips out at the end of the labyrinth through holes punched into the pipe wall. The water pressure regulates the desired flow rate, and therefore the number of drops per minute.

Various drip line arrangements are possible (see page 12).

IRRIGATION

Garden and Sporting Irrigation

Rain-O-Flor

Irrigation of recreation and sports areas

Watering of gardens done by hand can be annoying. Many owners of gardens do not want to waste their time pulling the hose through their gardens. Therefore they prefer a fix installed irrigation system, which saves them not only time, but also money and

helps to preserve healthy vegetation and therefore increases the value of their premises. Pipelife's garden irrigation system is fully automatized and consists of all required elements for a complete solution.



Irrigation for glasshouses – Rain-O-Flor®

Rain-O-Flor® is an irrigation pipe especially designed for glasshouses. The wall consists of three layers, a white outside and inside layer and a black interior layer. The white color ensures a high light reflection in the glasshouse, the black interior layer is opaque and

the water temperature remains low in the pipe. The opaque layer and the low water temperature prevent growth of algal.

Rain-O-Flor® pipes are available in diameters from 32 to 90 mm.



For general information on irrigation systems please contact:

E-mail: irrigation@pipelife.com



GAS

Gaz / Gas

GAS Product Range

Pipelife is a major supplier of polyethylene and (ductile) PVC systems for gas distribution networks. In polyethylene (PE 80 and PE 100) Pipelife is recognized as a leading European manufacturer. Pipelife manufactures and supplies a wide range of pipes and fittings from 20 mm to 400 mm. Pipes are produced in accordance to local national standards and certified by internationally recognized institutions such as GDF, DVGW and ÖVGW.

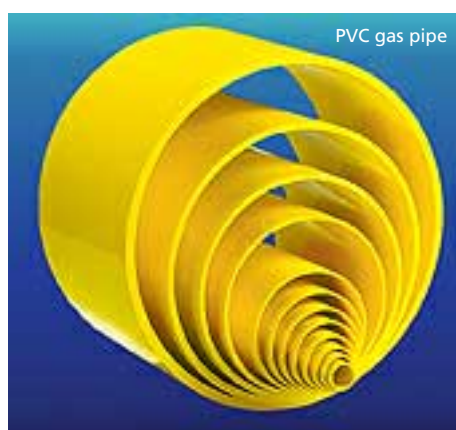
Unique to the Gas Industry, Pipelife also manufactures and supplies a complete pipe system in PVC (POLSAFE) for low-pressure distribution under 0.2 bar.

Pipelife cares very much about safety, but especially for products for the gas industry. Therefore Pipelife offers various safety systems, like the Gas Stop, to prevent gas leakage which may cause serious threats to both human life and property.

Product Range*

Diameter	PE 80	PE 100	(ductile) PVC	SDR 11	SDR 17.6
20	●	●	●	●	●
25	●	●	●	●	●
32	●	●	●	●	●
40	(●)	●	●	●	●
50	●	●	●	●	●
63	●	●	●	●	●
75	●	●	●	●	●
90	●	●	●	●	●
110	●	●	●	●	●
125	(●)	(●)	●	●	●
140	(●)	(●)	●	●	●
160	●	●	●	●	●
180	(●)	●	●	●	●
200	(●)	(●)	●	●	●
225	●	●	●	●	●
250	●	●	●	●	●
315	●	●	●	●	●
400	●	●	●	●	●

*The pipes/diameters shown in brackets do not belong to the standardized production program, but can be produced on request



For general information
on gas systems
please contact:

E-mail: gas@pipelife.com



Fittings

	PE 80 / PE 100 butt fusion	PE 80 / PE 100 electro welding	(ductile) PVC
Bends (various angles)	●	●	●
Couplings		●	●
T-pieces	●	●	●
Reducers (various dimensions)	●	●	●
Endcaps	●	●	●
Flanges	●		
Saddles		●	●

This table can only give a broad overview over the range of fittings available. For further information and details please refer to the contacts given in the introduction.

Specialities

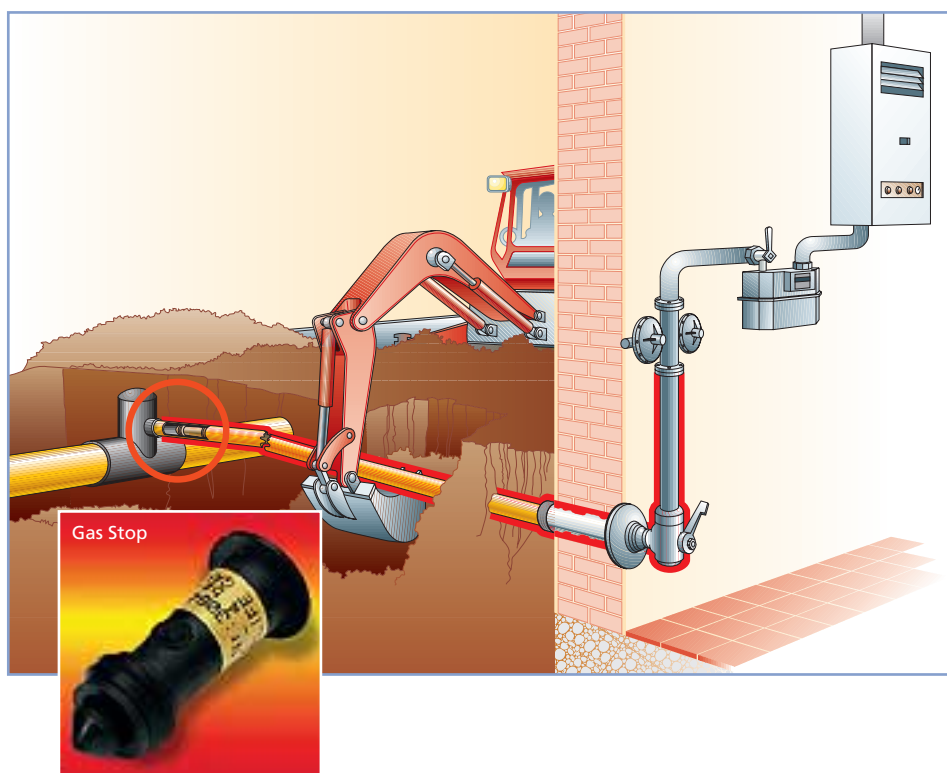
Gas Stop

The Pipelife Gas Stop is the result of intensive research and development work carried out in cooperation with many gas supply companies. The idea behind this first class safety device is to eliminate the risk of uncontrolled leakage of gas resulting from damaged service pipes, which causes serious threats to both human life and property. If a service pipe is damaged, e.g. by a mechanical digger, the Gas Stop Valve is activated within a fraction of a second and stops the gas flow through the pipe, thus preventing the uncontrolled gas leaks.

Polsafe™

The Polsafe system is a complete program of pipes and fittings of Ductile PVC for low-pressure gas distribution. A special element is the saddle tee with a self-sealing valve, preventing gas from escaping when making house connections or repairs. The service line is connected to the saddle tee with an end thrust joint.

The Polsafe system is easy to install and offers remarkable reduction of installation time. Experience of 35 years without field failures!



For further information
on Gas Stop
please contact:

Mr. Alexander Schmid

Product Manager Gas Stop
Pipelife Austria
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Fax: +43.2236.6702.670
E-mail: gasstop@pipelife.at



CABLE PROTECTION

Protection de câble / Kabelschutz

CABLE PROTECTION Product Range

Pipelife produces a wide variety of protection pipes in PE and PVC for telecommunication and power cables.

The PVC range of protection pipes consists of both smooth and corrugated. The corrugated PVC pipes give the added advantage of being flexible whilst offering a higher ring stiffness.

In polyethylene Pipelife is present on the dynamic market of fiber optic cable protection.

Working closely with major telecommunication service providers, Pipelife has produced a range of fiber optic cable ducts for house connections and for major backbone loops. In particular ribbed and lubricated ducts for high speed injection by air pressure of fiber optic cable form part of the Pipelife range. With a strong presence in both polyethylene and PVC pipe networks, Pipelife is a major player in the European market place.

Product Range

Diameter	PVC			PE							PP
	smooth	flexible	corrugated	smooth	Twinwall	Twinwall*	lubricated	flexible	straight grooved	spirally grooved	Twinwall
20								●			
25		●						●			
32	●			●			●	●	●	●	
40	●						●	●	●	●	
50	●	●	●	●	●	●		●	●	●	
63	●	●		●				●			
70						●					
75	●	●		●	●			●			
90		●		●				●			
100	●					●					
110	●	●	●	●	●			●			●
125	●			●	●			●			
140				●							
150						●					
160	●			●	●			●			●
200								●			

* D_i







CABLE PROTECTION

Protection de câble / Kabelschutz



Fittings

	PVC	PE
 Bends (rigid / flexible, various angles)	•	•
 Couplings (compression fittings)	•	•
 Spacers	•	•
 OPI		•

This table can only give a broad overview over the range of fittings available. For further information and details please refer to the contacts given in the introduction.

Specialities

1) Pipelife supplies lubricated ducts for air pressure cable injection. These ducts contain a silicon lining which allows the cable to slide down the duct with less friction and enable longer blowing distances.

2) OPI Channel. This is a system of cable spacers allowing pipes to be encased in concrete. Cables are inserted through the pipe network and can be replaced later without having to dig up the infrastructure.

3) Under the brand name Eurolec® a cable duct in PE is available of which the exterior is corrugated and the interior smooth and which can be supplied with or without pulling wire.

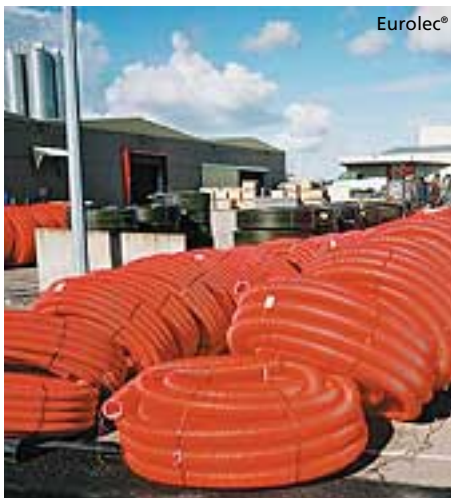
4) Pac-Able is a flexible, economic and environmentally friendly delivery system for opto-

ducts and innerducting. The tooling is made of strong aluminum. When assembling to tooling in the duct package, one flange is placed lying on the ground with the axle pointing upwards, the duct package is lowered onto the flange, and the second flange is placed over the package. Pac-Able provides a lot of advantages, like a very low weight in spite of its large capacity, storing of the duct package takes only little place and very easy handling with lifting straps.

5) Pipelife produces multi core piping systems for cable protection out of HDPE in different combinations. These systems are characterized by pipes with internal grooves, connected by a rigid membrane. They have a low friction coefficient and are used in telecom for fibre optics cable protection.



Multi core pipe



Eurolec®



OPI Channel



CABLE PROTECTION

Fittings

Specialities

Eurolec

Multi core pipe

OPI Channel

Pac-Able

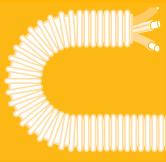


For general information
on cable protection systems
please contact:

E-mail: cableprotection@pipelife.com

Pac-Able

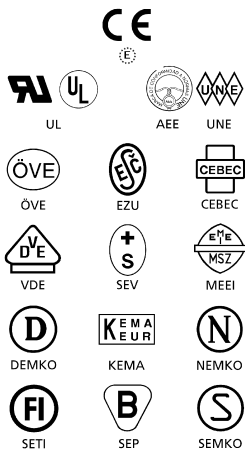




ELECTRO

Electro / Elektro

ELECTRO



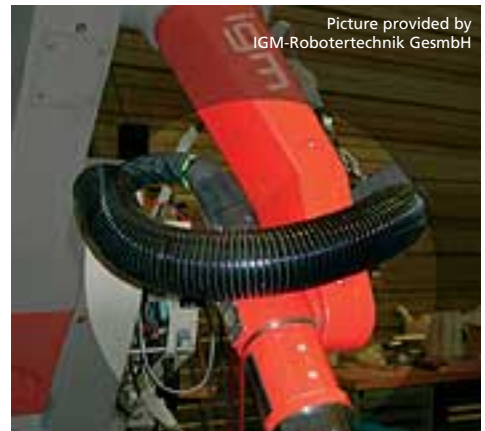
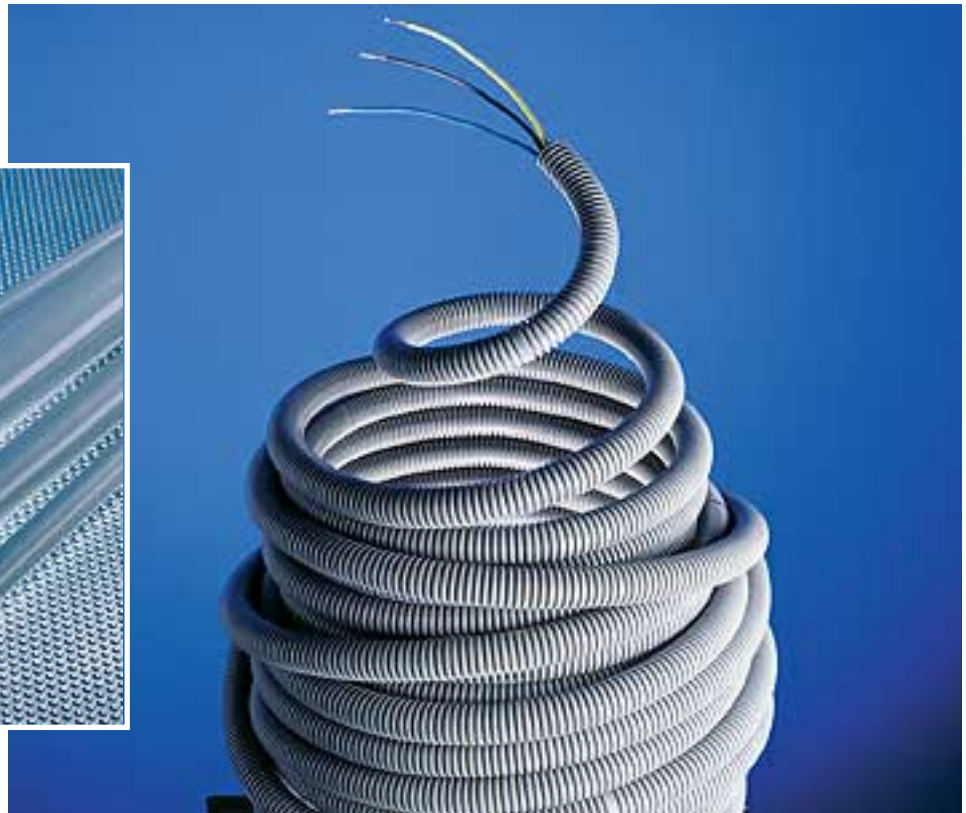
Within the Pipelife group electro activities are covered by the Electro Division having its headquarters in Wiener Neudorf/Vienna, Austria. The objective of this division is to further strengthen the amicable and co-operative business relations with its customers, the electrical wholesalers.

The basic product range consists of metal and plastic conduits for electrical installations. All kinds of accessories are produced for the installation and usage of the conduits, like bends, couplers and a range of fixing material. Based on this core product range, special solutions are provided to meet requirements as of UV-stability, high temperatures and mechanical force, aggressive substances,

halogene-free assortment, prewired conduits and many more.

Another field of activity is plastic tubes for industrial applications, which are mainly used in the automotive, aircraft, robotics and engineering industries. The challenging requirements from these customers can only be met by the use of a variety of raw materials (PA, PE and PUR) and the close co-operation between the raw material suppliers and the Pipelife R&D Department in Enkhuisen, The Netherlands.

The increasing product range of electrical systems offered serves the needs of the electricians in the domestic, commercial and industrial sectors and is in compliance with national and international standards and regulations.



For general information on electro systems please contact:

E-mail: electro@pipelife.com

DISTRICT HEATING

Chauffage à distance / Fernwärme



As a pioneer of pre-insulated plastic pipe systems in Europe, Pipelife can look back at 20 years experience.

FLEXALEN® – is the unique flexible, polybutylene pre-insulated pipe-system.

Our success is based on efficient planning support, comprehensive service and a high level of quality.

FLEXALEN SYSTEM 1000

Carefully chosen materials achieve lasting advantages:

- outstanding flexibility even at temperatures around 0°C
- very low bending forces
- easy assembly – fully fused system
- all plastic – no corrosion
- dimension range: OD20 – OD160
- temperature range: -15°C to +95°C
- test temperature: max 110°C
- environmentally friendly due to recyclable non-toxic raw materials
- future replacement of the carrier pipes is possible
- double moisture protection of the heat insulation
- when dipped expansion loops not required

MEDIUM PIPES

Polybutylene, commercially available and used successfully for over 35 years:

- temperature range – up to 95°C
- compression end connections for small, simple jobs
- completely welded jointing system produces homogenous connection
- very low friction / pressure loss due to smooth interior walls
- high chemical resistance
- drinking water certification for grey polybutylene with international approvals

Flexalen as a division of Pipelife has the strength to support our existing markets with high quality products, efficient planning support and a comprehensive service. We use our expertise and foresight to lead the market with new, exciting and innovative solutions.

THERMAFLEX

Thermafex pipe insulation for heating, cooling and noise reduction from the technology leader in PE insulation materials.

Measurements and dimensions

Designation FLEXALEN	DN	Inch	Jacket Pipe OD (mm)	Carrier pipe OD (mm)	Carrier pipe ID (mm)	Number of carrier pipes	Min. bending radius (m)	Max. coil length (m)	Weight (kg/lfm)
FV-R 160A25	20	3/4	160	25	20,4	1	1,25	100	2,70
FV-R 160A32	25	1	160	32	26	1	1,25	100	2,80
FV-R 160A40	32	5/4	160	40	32,6	1	1,25	100	3,00
FV-R 160A50	40	6/4	160	50	40,8	1	1,25	100	3,20
FV-R 160A63	50	2	160	63	51,4	1	1,25	100	3,60
FV-R 200A75	65	2 1/2	200	75	61,2	1	1,25	100	4,70
FV-R 200A90	80	3	200	90	73,6	1	1,25	100	5,40
FV-R 160A2/25	20	3/4	160	25	20,4	2	1,25	100	2,90
FV-R 160A2/32	25	1	160	32	26	2	1,25	100	3,10
FV-R 200A2/40	32	5/4	200	40	32,6	2	1,25	100	4,10
FV-R 200A2/50	40	6/4	200	50	40,8	2	1,25	100	4,70
FV-R 200A110	100	4	200	110	90	1	16,00	12	6,30
FV-R 200A125	100	4	200	125	102,2	1	16,00	12	7,40
FV-R 225A140	125	5	225	140	114,4	1	18,00	12	9,00
FV-R 250A160	150	6	250	160	130,8	1	20,00	12	11,70



For general information on district heating systems please contact:

Mr. Christian Engel

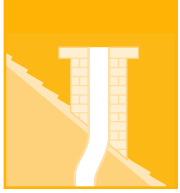
Flexalen Trading GmbH & Co KG
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Kaiserstrasse 75
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Phone: +43.1.523 26 25

Fax: +43.1.532 26 25-24

E-mail: districtheating@pipelife.com



FLUE GAS

Cheminées / Kaminsanierung

FLUE GAS Product Range

On a large scale existing heating installations are being modernized. In many, usually old houses, a central heating system is installed for the first time. In nearly all cases a high efficiency (HE) boiler is installed providing a combination of central heating and hot water supply. When such a boiler is connected to the existing flue gas discharge system most of the time the chimney has to be adapted, caused by the fact that the flue gases coming from these types of boilers have low temperatures and the condensation process takes place in the chimney. In order to prevent the brickwork from becoming affected and moisture penetrating, the chimney shall be lined. Conventional materials have the disadvantage of being rigid, too expensive or corrode quickly under the influence of the condensate.

To provide solutions for all those requirements, Pipelife developed plastic flue gas discharge systems in PVDF and PP, which have a very good chemical resistance and are approved for 160° C and 120° C degrees respectively. The linings are sold under the brand names Renoflex® (PVDF) and Easyflex® (PP).

The system's remarkable advantage appears fully for complex shaped chimneys. The efficient design of the corrugated profile gives the pipe adequate radial strength combined with low weight and high flexibility. The system consists of tensile, tight and removable fittings. For straight parts rigid connecting pipes can be used. Prefab and custom-made installations are possible when butt welding method is used.

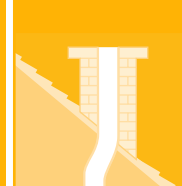
Product Range

Diameter	Easyflex®		Renoflex®	
	rigid	flexible	rigid	flexible
80	●	●	●	●
100	●	●	●	●
130	●	●	●	●



FLUE GAS

Cheminées / Kaminsanierung

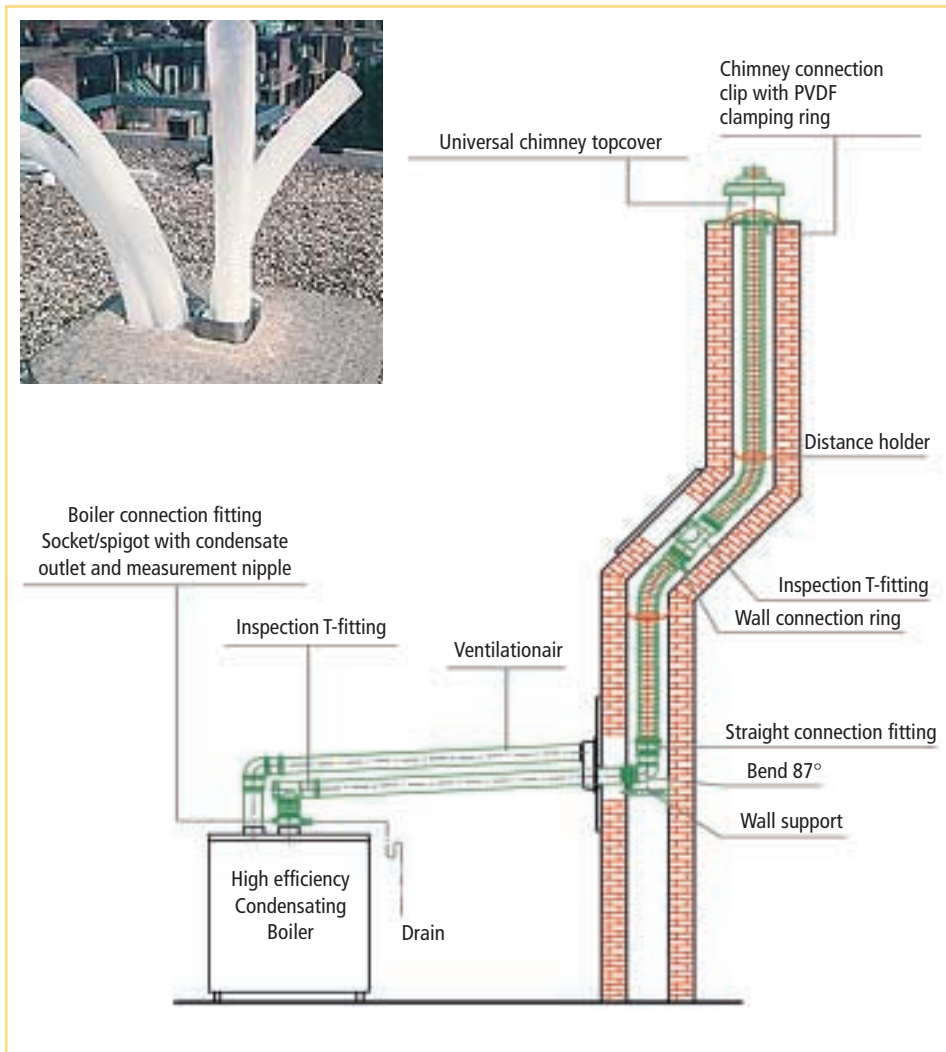


Fittings

	Easyflex®	Renoflex®
Bends (various angles)	●	●
Couplings	●	●
T-pieces	●	●
Bird grid	●	●

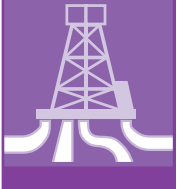
This table can only give a broad overview over the range of fittings available. For further information and details please refer to the contacts given in the introduction.

FLUE GAS Fittings



For general information on flue gas systems please contact:

Mrs. Judith Karreman
 Pipelife International
 The Netherlands
 Flevolaan 7
 N-1601 MA Enkhuizen
 Phone: +31.228.355 516
 Fax: +31.228.355 520
 E-mail: fluegas@pipelife.com



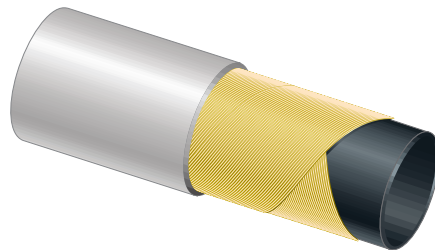
SOLUFORCE®

SOLUFORCE®, Long Length Reinforced Thermoplastic Pipes (LLRTP)

In general, the international oil and gas production industry uses steel pipelines for flow-lines, water injection- and oil well hook-up lines.

As these pipelines with relatively small diameters are mainly installed above ground, they are exposed to corrosive environment, both internally and externally.

Comparison of life cycle costs of available material options shows that SOLUFORCE® is more cost effective than all types of steel if operating and installation costs are taken into account.



On this background it is clear that SOLUFORCE® is of considerable interest to this market.

The system consists of the tube with diameter 4" and 5" and reinforced thermoplastic couplers and end-fittings. In addition, the end-fittings have removable 316 L steel parts that fit to 6" ANSI # 600 flanges.

The main applications of SOLUFORCE® are in the oil and gas exploitation industry, like:

- Oil well flow lines, up to 74 bars (1100 Psi) and 65 °C (150 °F)
- Water injection lines up to 95 bars (1200 Psi) and 65 °C (150 °F)
- Small diameter gas transportation and distribution up to 125 mm (internal)
- Oilfield and industrial effluent water transportation
- High-pressure potable water and irrigation piping

SOLUFORCE® is supplied on road transportable coils, for 4" about 400 meters in length and of a maximum diameter of 4 meters, packed on disposable reels. The coils shall be placed on the un-coiling trailer, that can be towed with a standard 4 wheel drive car. The trailer has its own power source, which enables the usage as an in-field pipe reeling machine.



SOLUFORCE® – robust but still flexible

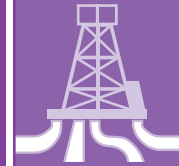
By standard condition, it is nearly impossible to break SOLUFORCE®. Above ground SOLUFORCE® remains in top condition for at least twenty years. When buried, that time span is even fifty years. SOLUFORCE® is easy to handle both in moderately cold and extremely hot climates.

The pipe has been exposed to the sweltering hot sun and to the most strenuous UV-test that is known in the world: the "Kalahari-Test". An elephant stamped on the pipe and heavy vehicles drove across the pipe - SOLUFORCE® remained intact.



Despite this robustness, SOLUFORCE® is that flexible that it can be easily installed around corners, without the need for pre-fabricated bends. This saves a lot on planning and engineering, in-field improvisation and, as a result, a large amount of costs.





Connection methods and fittings

To interconnect elements, as well as to connect to any kind of steel pipe, a complete range of electro-fusion in-line couplers and end fittings have been developed.



The fittings are based on the electroweld principle. Before electro welding the sleeve,

both pipe ends are first butt welded to provide a 100% leak free connection. The reinforced plastic sleeve provides the mechanical load path from one pipe end into the other.

The application of the couplers is done with CNC automated equipment. It takes just about 30 minutes to complete a connection.

When T-pieces, elbows, reducers etc. are needed, SOLUFORCE® is completed with a electro-fusion flanged end-fitting. Any piece of any materials specification can be bolted to this end-fitting.

The fittings are stronger than the tube and have integrally been tested with the tube. In addition welding equipment is available and courses are being given to learn about the welding and the installation.

SOLUFORCE® Fittings Technical Data

Indicative Specifications as per ASTM D2992

Pipelife manufactures pipelines suitable for operation with the following indicative specifications. Pressure rating will depend upon

customer temperature, fluids and design life requirements. All imperial/US pressure specifications are rounded to the nearest 50 psi.

Property	M480	L440'	M570
Liner Material	HDPE (black) PE 100	HDPE (black) PE 100	HDPE (black) PE 100
Reinforcement Material	Aramid Fiber / HDPE	Polyester Fiber / HDPE	Aramid Fiber / HDPE
Cover Material	HDPE (white) UV resistant PE 100	HDPE (white) UV resistant PE 100	HDPE (white) UV resistant PE 100
Inner Diameter	4 inch (100 mm)	4 inch (100 mm)	5 inch (125 mm)
Outer Diameter	5 inch (125 mm)	5 inch (125 mm)	6 inch (150 mm)
Weight	4.6 kg/m (1.4 kg/ft)	4.5 kg/m (1.4 kg/ft)	5.9 kg/m (1.8 kg/ft)
Length per coil	400 m (1240 ft)	400 m (1240 ft)	280 m (920 ft)
Design life	20 years	20 years	20 years
Hydrostatic strength 20 years (Water, 65°C)	1600 psi (112 bar)	–	1300 psi (90 bar)
Operating Pressure (Water, 65°C)	1200 psi (95 bar)	600 psi (40 bar)	1000 psi (67 bar)
Operating Pressure (Crude, 65°C)	1100 psi (74 bar)	450 psi (30 bar)	900 psi (60 bar)
Operating Pressure (Dry gas, 65°C, 50 yrs)	600 psi (42 bar)	500 psi (32 bar)	600 psi (42 bar)
Hydrotest Pressure²	1500 psi (105 bar)	700 psi (50 bar)	1200 psi (84 bar)
Max. Operating Temperature	65 °C (150 °F)	65 °C (150 °F)	65 °C (150 °F)
Min. Operating Temperature	-40 °C (-40 °F)	-40 °C (-40 °F)	-40 °C (-40 °F)

¹ Indicative specification only

² Hydrotest pressure = 1.25 x operating pressure for a period of 24 hrs



For general information
on Soluforce®
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Pipelife is one of the world's leading suppliers of Plastic Pipe Systems. We are globally active in more than 26 countries.

First choice supplier

Our business activities are focused on the development, manufacturing and distribution of plastic pipe systems. We provide solutions for the complete water cycle, energy and power distribution, for telecommunication networks and industrial applications. Pipelife's unique position of providing customers with excellent services and products is the result of constant improvement and innovation at the highest quality level. Outstanding competence, extraordinary team spirit, and visionary management are the key factors for being No. 1 in terms of customer satisfaction.

Water Transportation Network

Pipelife is actively contributing to the safety of water, the world's most precious resource, by offering a wide range of complete pipe systems. From water supply infrastructure to in-house installation, from irrigation to drainage and sewerage, we provide high quality systems for the entire water cycle. Installers, farmers and leading European utility companies trust us. They appreciate Pipelife's reputation of being a competent, reliable and professional partner.

Energy, Power and Communication Safeguard

Pipelife manufactures and supplies highly sophisticated pipe systems that meet strict safety and quality standards for transportation and protection. We enable our customers to choose from a unique assortment of designs and materials, providing the perfect solution for virtually every functional requirement. We offer the renowned Pipelife service for gas distribution, district heating, electrical conduits, and the protection of power and telecom cable.

High performance transportation

Pipelife's pipe systems function under extreme conditions including corrosion, high pressure and temperature. Maximum quality and optimum reliability – our core competencies – are required to meet the expectations of the customers. We offer tailor-made solutions for the transportation of liquids, gases and powders to private and industrial clients.

Environmental Commitment

From the production process to the operational use of our pipe systems, Pipelife is actively contributing to the protection of our planet. Intensive research on new materials and the application of the most advanced production techniques ensure a high degree of environmental conservation. Our reliable, high performance systems endure the test of time. We are aware of our responsibility to the protection of the environment and the health and safety of all employees, customers and the general public as expressed in our Health, Safety and Environment policy.

Pipelife Philosophy

Market orientation, innovation and speed combined with exceptional knowledge and skills are our key ingredients to achieve customer satisfaction. To become First Choice Supplier, Pipelife has the advantage of being present on local and international level. Sustainable profits gained through high efficiency in all our processes enable us to be the reliable partner for plastic pipe systems, now and in the future.

Pipeline Worldwide

- Pipelife Company
- Pipelife Partner Company





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