MADE IN SPAIN

REPOLEN
SYSTEM

THE HISTORY OF A FAMILY
CHRONOLOGY

1981

Reboca is founded by 2 brother in l'Olleria - Spain in 1981

1981

FIRST PHASE
Recovery and recycling of plastic materials.

1983

DRIP IRRIGATION
We produce our first pipe for irrigation.

2013

MULTILAYER PIPES
The Repolen System grows as we start the production of multilayer pipes.

2018

NEW PRODUCTION FACILITIES
At the beginning of 2018 the new production facility it's a reality.

2019

BIM
Ready Bim library for the full Repolen PPR & PE System

2020

ISO 14001
Our company is accredited by ISO 14001, a reference standard for environmental matters.

2021

REPOLEN FIRE
The Repolen System launches to the market our PP-RCT free halogen pipes for firefighting.

2022

ENVIROMENTAL PRODUCT DECLARATION
Following our environmental care our company achieved the EPD that's lookout of the footprint of our company and products.

1985

PRODUCTION
We start the production of pressurized water pipes.

1991

FACILITIES
New facilities are built as the company grows.

1992

REPOLEN
First Repolen PPR pipe & fittings system it's produced.

1994

REPOLEN BRAND GROWS
We add the first PE Socket fusion Range of fittigs to the Repolen System.

2001

CERTIFICATES
Our Company gets the certificate, many more will follow.

2007

INTERNATIONAL EXPANSION
Reboca opens the first international delegation.

2023

BIG DIAMETERS
Our production range increase to 400m pipes

2023

FM APPROVAL FOR REPOLEN SYSTEM
Our Repolen Fire System it's in process by the USA certificate FM Approval

What's now

We work continuously, adding experiences, knowledge and new technologies in the area of industry 4.0 to offer our customers the best service and product

OUR COMPANY

REBOCA, S.L. was founded in 1981 having as principal activity the recovery and recycling of plastic materials.

After a while, the company began to diversify its product range, entering in the market of pipe and drip irrigation accessories. Gently range of equipment was extended and in 1985, REBOCA, S.L. began to manufacture pipes for the conveyance of water under pressure.

This was a huge growth for the company, as pipe is not the only product provided for customer service, but also all necessary accessories for the installation of both irrigation and water pressure.

While the company grew in this direction, it left the recovery and recycling of materials, to focus its efforts on the manufacture of pipes.

Since then, REBOCA, S.L. has been working in the manufacture of PE-32 and PE-40 pipes for irrigation and pressure, PE-100 for cold water pressure and PP-R, PPR FV and PP-R RP for cold and hot water pressure, as well as in the necessary accessories.

And so in the mid-eighties, through an iconic combination of colors and typographic forms that emulate a set of pipes, the first Reboca logo is born.

The research, development and innovation developed by REBOCA from the beginning, they made possible the creation of the REPOLEN product range. A wide range of products and accessories oriented to the installation of networks for the water supply under pressure.

With the creation of the new pipes of PP-R and PP-RCT. There is a need to create a brand that helps to identify new products. This is how REPOLEN emerges a brand whose products have become the best solution for plumbing, air conditioning, heating, refrigeration, shipbuilding and industry chemistry seeking excellence in the national market and international.

Since the REPOLEN product range was born in the 1985, its REPOLEN brand has also been growing and evolving Nowadays REPOLEN is a living brand that It has transcended the company. REPOLEN agglutinates, evokes and synthesizes the past, present and future of REBOCA.

ENVIRONMENTAL COMMITMENT

All **REPOLEN** products are made with a non-toxic product, which does not generate waste during its manufacture, promoting the production of goods orientated at achieving zero discharge.

In addition, the design characteristics of **REPOLEN** products allow them to reduce consumption due to their great durability and efficiency in their useful life, and once finished, a correct re-entry into the circuit, thanks to their recyclability, transforming them again into raw material. of different products.

REBOCA, S.L. takes another step in its commitment to the environment, implementing the international environmental management standard **ISO 14001:2015**. With this system, we will be able to improve its environmental performance and promote the protection of the environment in the development of its different activities, complying with the key pillars of the company.

In **REBOCA, S.L.** We calculate the carbon footprint annually and use several application measures, among them we have:

- We highly use energy efficient lighting.
- Since the end of 2021, solar panels have been installed on the entire roof of the organization, drastically reducing electricity consumption.
- The consumption of paper and toner in offices is reduced and paper is reused on unused faces.
- Transport is optimized, a management plan is created, and consumption is monitored.
- Environmental certificates are processed, such as the **MORE** seal (European Platform to monitor the use of recycled material) and the **OCS** (Operational Clean Sweep) certificate, a global and voluntary initiative of the plastics industry to reduce the loss of pellets.
- Communication of environmental performance. We have an integrated system to ensure that we offer a quality service that is respectful of the Environment, which takes place in a healthy and safe environment for our collaborators.
- We periodically evaluate our compliance with the environmental legislation that applies to our activities.
- We adequately control the environmental aspects identified.
- We have action protocols for potential environmental emergencies.
- We carry out supplier performance control and environmental communication.

In 2022 Reboca S.L, achieve the **Environmental Product Declaration (EPD)** This declaration is a document based on **ISO guidelines (9001 and 14001)** and its purpose to provide quantifiable information on the environmental impacts of a product throughout its life cycle. The information contained is based on carrying out a global and multi-criteria evaluation of the environmental impacts of a product from its origin to the end of its useful life. This is done using the **Life Cycle Assessment (LCA)** method, following the rules that are established for the product category on a scientific and regulated basis.

AENOR QUALITY MANAGEMENT ISO 9001 ER-0154/2001 · AENOR GESTIÓN AMBIENTAL ISO 14001 GA-2020/0240 · IQNET RECOGNIZED CERTIFICATION ES-2020/0240 ES-0154/2001 · MORE · EMPRESA ADHERIDA Operation Clean Sweep ANAIP www.anaip.es/ocs · EPD · Achilles Repro SILVER · ICC ES FM 1635 · DIT

CERTIFICATES AND WARRANTIES
QUALITY CONTROL

CERTIFICATES AND WARRANTIES

Polypropylene Random Copolymer (PP-R) has been one of the first plastics to be used in heating systems. PP-R is the most advanced material for hydrosanitary installations.
In the same way, Polyethylene PE-100 pipes, due to its amazing chemical and physical properties, can be used in a wide range of applications

QUALITY CONTROL

At every stage in the production process the REPOLEN® system of pipes and accessories undergoes rigorous quality control checks, including: suitability of raw material; sizes measurements and appearance of finished products; resistance to thermal oxidation; absence of residual stresses; resistance to high temperature and pressure; resistance to low temperature impact.

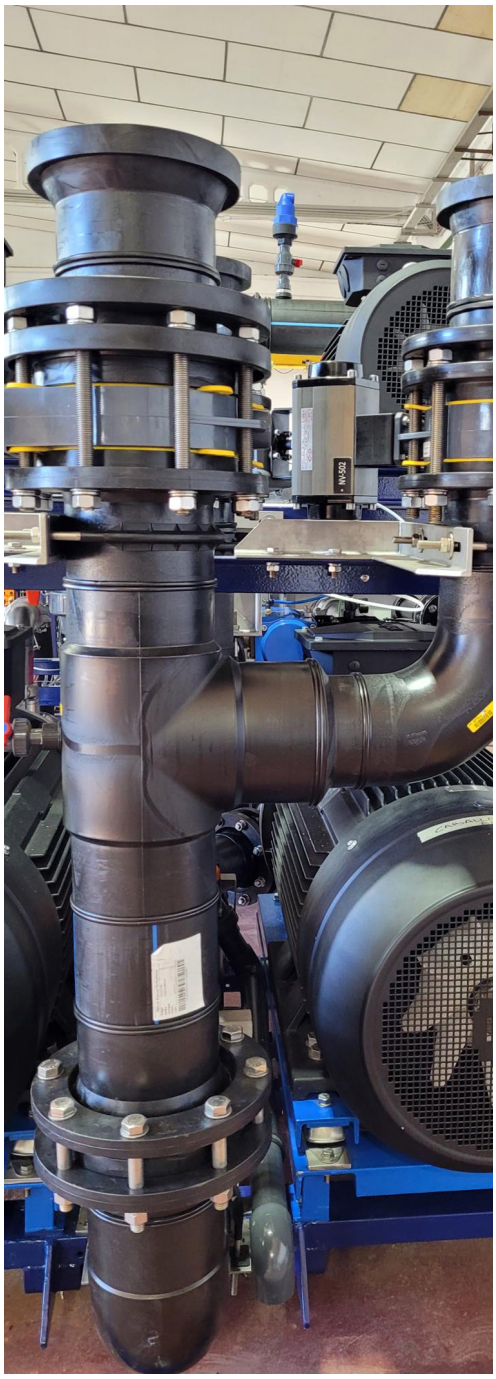
REPOLEN SYSTEM WARRANTY

The REPOLEN® system, when used in water and sanitary systems in accordance with the instructions given in the Technical Manual is covered by an insurance policy taken out by REBOCA, S.L. TRANSFORMADOS PLASTICOS with the insurance company Catalana Occidente, S.A

PROJECTS

The REPOLEN Pipeline Systems participate in civil works, construction, industry and irrigation projects; are in continuous diversification, development and expansion at national and international level; serve as a reference and combine experiences, know-how, design, research and innovation.

EXAMPLES OF INSTALLATIONS

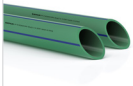
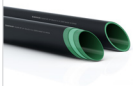
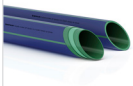



Carrier

OUR APPLICATIONS

The continuous updating of our REPOLEN products together with research, development and innovation, allows us to present a whole series of pipelines with certain specific characteristics, studied and created to meet market needs.

The color of the last layer or the four lines that it carries, allow us to identify at all times the type of pipe it is and the type of fluid it transports.

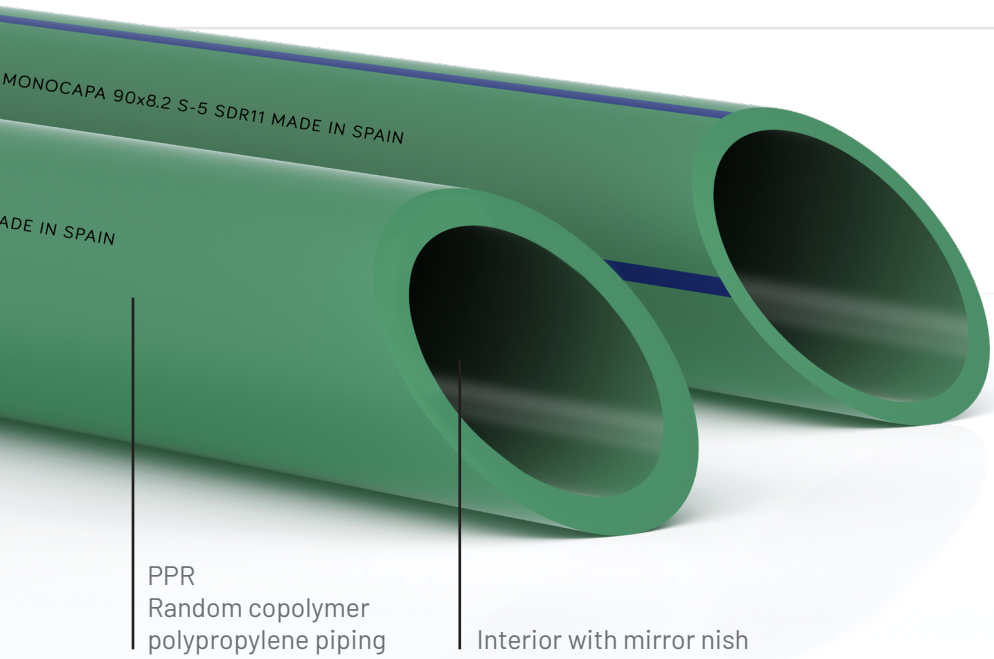
PIPE		NAME	SERIES / SDR	MATERIAL	COLOUR
MONOLAYER PPR		Repolen PP-R pipe	2,5 / 6 3,2 / 7,4	PPR	Green
		Repolen PP-R pipe	5 / 11	PPR	Green with blue lines
		REGENERATED WATER Repolen pipe	5 / 11	PPR	Green with purple exterior
MULTILAYER PPR		FASER Repolen pipe	3,2 / 7,4	PPR + FV	Green with dark green lines
		FASER RP Repolen pipe	3,2 / 7,4 4 / 9	PPRCT + FV	Green with grey lines
		FASER RP UV Repolen pipe FASER CLIMA UV Repolen pipe	3,2 / 7,4 4 / 9 5 / 11	PPR + FV + UV PPRCT + FV + UV	Green with black exterior
		FASER CLIMA Repolen pipe	3,2 / 7,4 5 / 11 8 / 17	PPR + FV PPRCT + FV	Blue with green lines
FIRE		FASER FIRE RP Repolen pipe	7,4 11	PP-RCT ADITIVADO	Green with red exterior
PE100		PE-100 Repolen pipe	4 / 9 5 / 11	PE-100	Black with blue lines

LEYENDA	
✓	Recommended system for its technical characteristics
UV	Ultra Violet Protection
RP	High Pressure Resistance

	HOT WATER SANITARY ●	COLD WATER SANITARY ●	HEATING	AIR CONDITIONING	COMPRESSED AIR	GEOTHERMAL	SECTOR NAVAL	REGENERATED WATER	ROCIADORES Y BIES
	✓	✓	✓	✓	✓	✓	✓		
	✓	✓		✓	✓	✓	✓		
								✓	
	✓	✓	✓	✓	✓	✓	✓		
	✓	✓	✓	✓	✓	✓	✓		
	✓	✓	✓	✓	✓	✓	✓		
	✓	✓	✓	✓	✓	✓	✓		
									✓
		✓		✓	✓	✓	✓		

REPOLEN PIPING
SINGLE-LAYER

Suitable for sanitary cold water networks and food processing, ventilation, and chemicals transport installations.



PPR
Random copolymer
polypropylene piping

Interior with mirror nish

FEATURES

Structure	SINGLE-LAYER
Material	PP-R REPOLEN
Standard	UNE EN 15874
	RP 001.16
Colour	GREEN RAL 6024 INTERIOR
Supply	BARS 4M.
	PACKAGING

ADVANTAGES OF USING SINGLE-LAYER RANDOM COPOLYMER POLYPROPYLENE PIPES (PP-R)

DURABILITY
The PP-R polypropylene pipe service life is calculated over an operating period of 50 years. UNE EN ISO 15874 standard.

NO SEDIMENTS AND FOULING
The smooth interior walls make it impossible for algae, and other types of incrustations or adherences to stick to them, therefore the inside diameter of the installed pipe is kept consistent over the years.

EASY TO INSTALL AND WIDE RANGE OF APPLICATIONS
The assembly speed, multiple ttings and pipe diameters, variety of solutions, and reliable welds make it possible for its application in DCW and DHW installations, drinking water networks, for the transport of chemicals, for agriculture, mining, shipbuilding, swimming pools, industry, etc.

LIGHTWEIGHT
The easy handling of the pipes and low weight mean a great opportunity for use in those installations where access is difficult.

NON-TOXIC
PP-R polypropylene pipes are odourless, tasteless, and non-toxic, making them a perfect material for supplying drinking water.

PRESSURE DROP
The low surface roughness and the almost zero friction of its inner walls promote reduced pressure drop. High fluid circulation speed: V=0.50 - 3.50 m/s

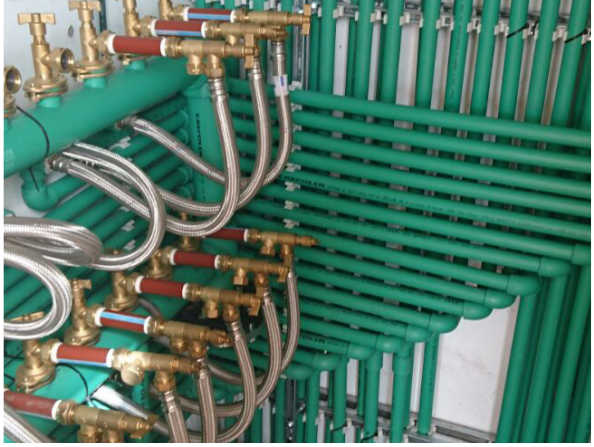
ACOUSTIC EFFICIENCY
Reduces noise transmission in comparison with metallic piping.

IMPACT
High impact resistance.

RESISTANCE
Highly resistant to corrosion and most chemicals.

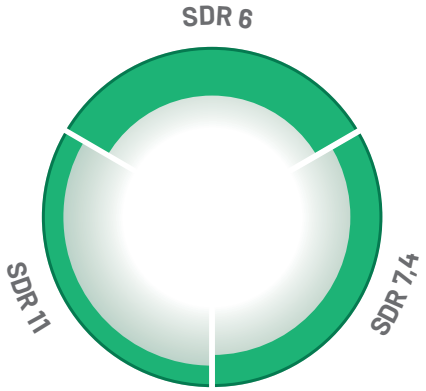
APLICATIONS

- ACF
- AFS
- Agriculture
- Refrigerated water
- Reclaimed water
- Compressed air
- Heating
- Air conditioning
- Livestock farming
- Geothermal energy
- Pressure groups
- Industry
- Sports facilities
- Outdoor installations
- Indoor installations
- Mining
- Navy
- Civil work
- Swimming pools
- Chemicals



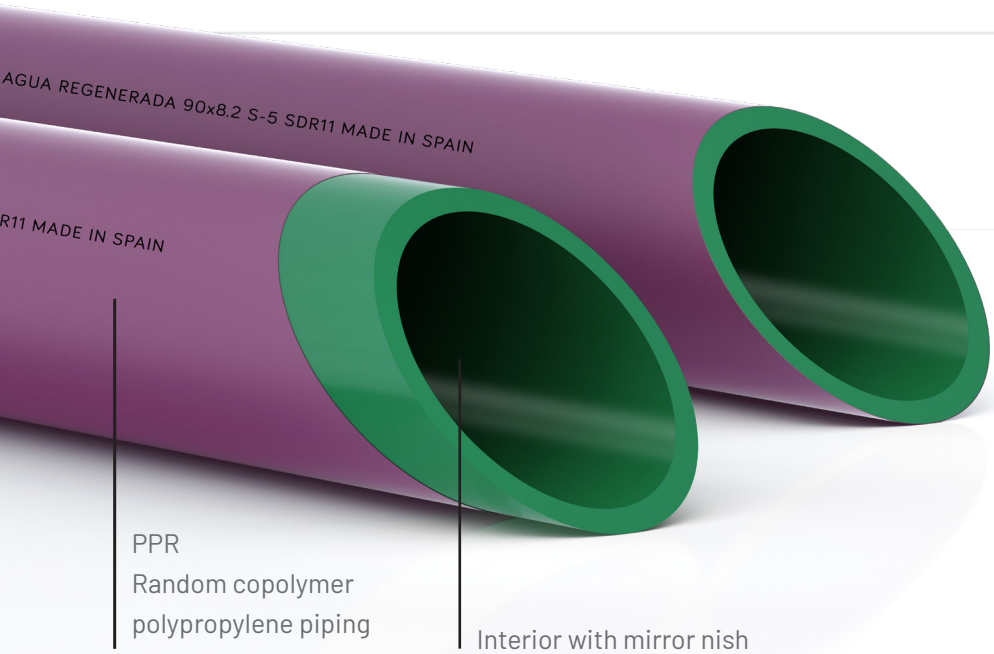
THE REPOLEN SYSTEM

- NON-TOXIC
- HIGHLY RESISTANT TO PRESSURE
- ELECTRICAL INSULATOR
- VERY LOW CELERITY
- ACOUSTIC INSULATION PROPERTIES
- VERY EASY TO ASSEMBLE
- LOW HEAT LOSS



REPOLEN PIPE
REGENERATED WATER

lindicated for reused, recycled, or rainfall water installations.



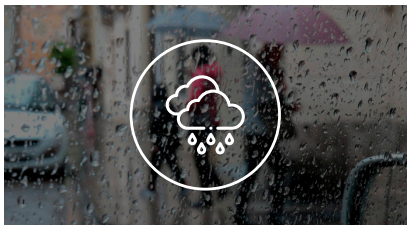
FEATURES

Structure	SINGLE-LAYER
Material	PP-R REPOLEN
Standard	UNE EN 15874
Colour	GREEN RAL 6024 INTERIOR, PURPLE RAL4001 EXTERIOR
Supply	BARS 4M. PACKAGING

REPOLEN SYSTEM ADVANTAGES

The Repolen piping system for reclaimed water is made from single-layer, opaque random copolymer polypropylene, with the correct colour coding, thus ensuring:

- proper identication
- complete resistance to corrosion
- high environmental compatibility



RAINWATER

There are increasingly more project that consider the development for the recovery and collection of rainwater in new facilities, buildings, and renovations.

IRRIGATION

The Repolen Reclaimed Water piping system is specially indicated for irrigation installations using recovered or reclaimed water.

LAUNDRY

Reclaimed water can also be used in laundries or toilets. The canalisation must be completely independent of the rest of the water supply.

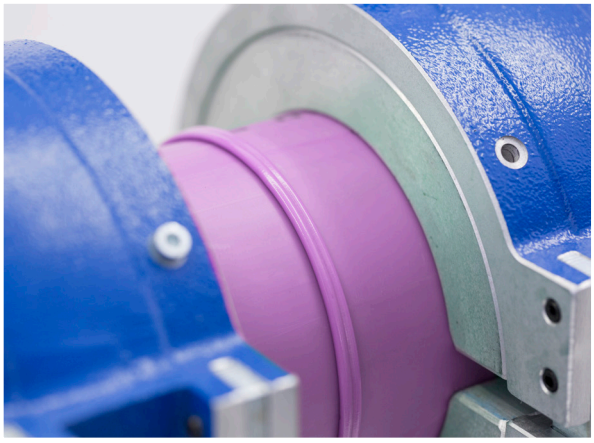
Thermal conductivity coecient

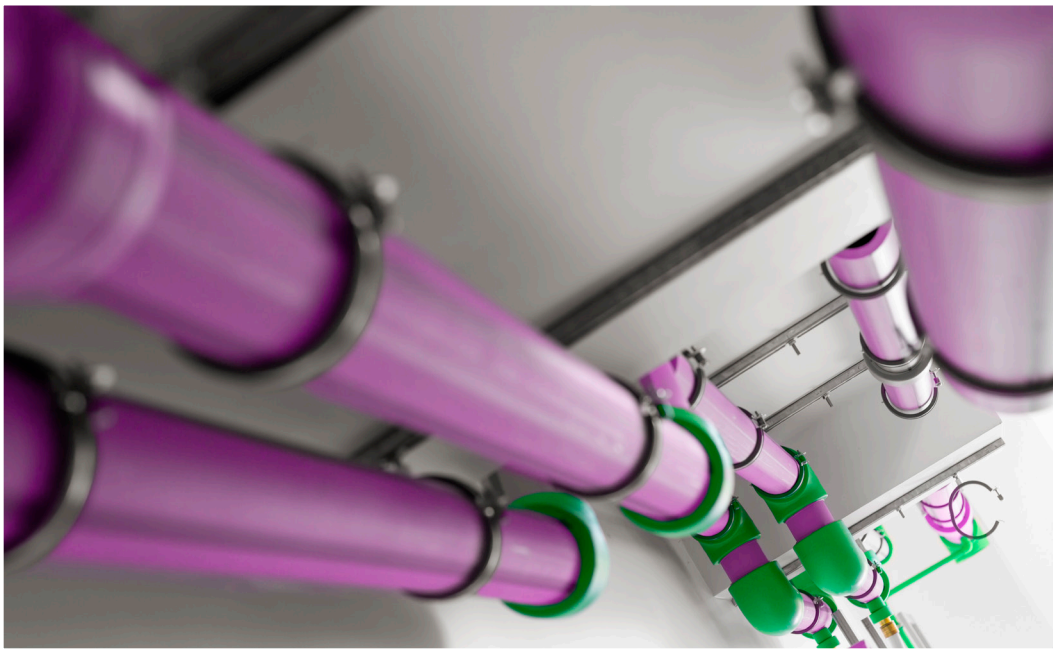
alpha = 0,24 w/mºK

The piping in the REPOLEN Socket system of pipes and ttings feature light and exible properties that help simplify and reduce the costs associated with assembly and installation.

APLICATIONS

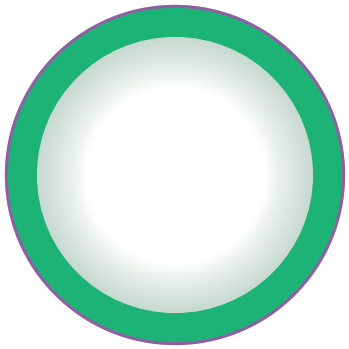
- ACF
- AFS
- Agriculture
- Refrigerated water
- Reclaimed water
- Compressed air
- Heating
- Air conditioning
- Livestock farming
- Geothermal energy
- Pressure groups
- Industry
- Sports facilities
- Outdoor installations
- Indoor installations
- Mining
- Navy
- Civil work
- Swimming pools
- Chemicals





THE REPOLEN SYSTEM

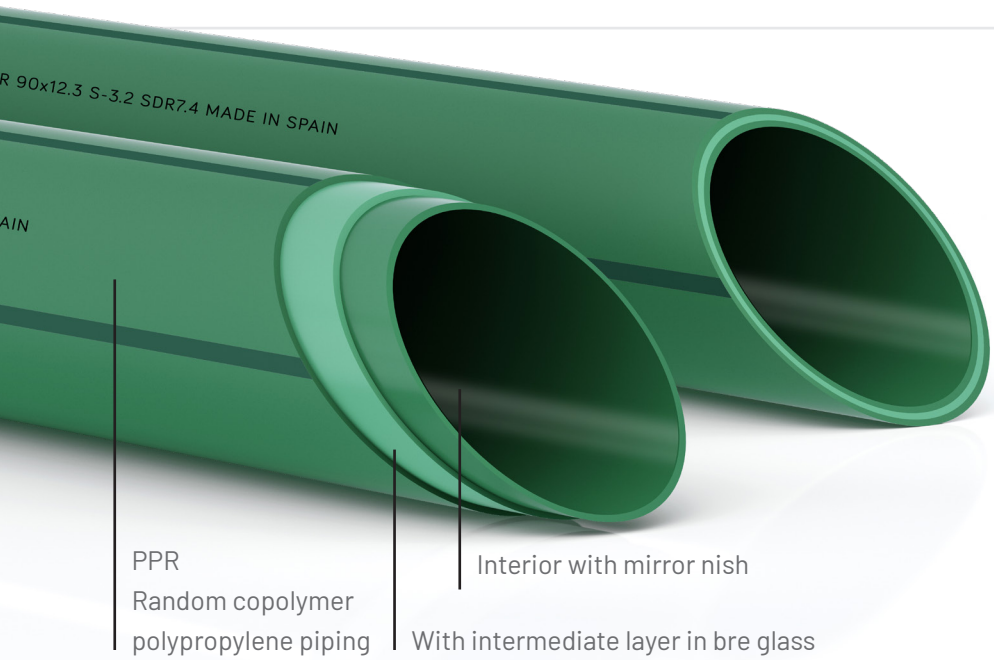
- NON-TOXIC
- HIGHLY RESISTANT TO PRESSURE
- ELECTRICAL INSULATOR
- VERY LOW CELERITY
- ACOUSTIC INSULATION PROPERTIES
- VERY EASY TO ASSEMBLE
- LOW HEAT LOSS



SDR 11

REPOLEN PIPE
FASER

Indicated for domestic hot water (dhw) and domestic cold water (dcw) installations.



PPR
Random copolymer
polypropylene piping

Interior with mirror nish

With intermediate layer in bre glass

FEATURES

Structure	MCF (MULTILAYER WITH FV, FASER)
Material	PP-R REPOLEN
Standard	UNE EN 15874 RP 001.72 UNE EN ISO 21003
Colour	GREEN RAL 6024 WITH 4 GREEN RAL 6026 STRIPES
Supply	BARS 4M. PACKAGING

REPOLEN SYSTEM ADVANTAGES

FIBRE GLASS

Manufactured from premium quality Random Copolymer Polypropylene (PP-R), they feature an intermediate layer in bre glass for greater linear stiffness.

SOCKET SYSTEM, YOUR SOLUTION

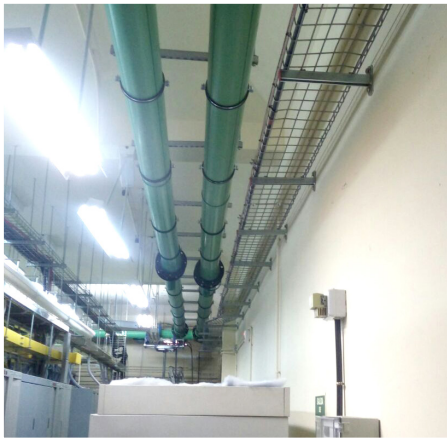
Repolen Faser piping are a convenient, quality, and safe solution for channelling large spaces. They are produced from Random Copolymer Polypropylene (PP-R) and feature an intermediate layer in bre glass. Greater linear stiffness, less pipe expansion, and greater distance between supports can be achieved.

Thermal conductivity coecient
alpha = 0,15 w/mºK

In addition, the piping in the REPOLEN Socket system of pipes and ttings feature light and exible properties that help simplify and reduce the costs associated with assembly and installation.

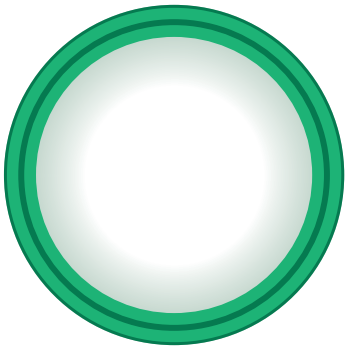
APLICATIONS

- ACF
- AFS
- Agriculture
- Refrigerated water
- Reclaimed water
- Compressed air
- Heating
- Air conditioning
- Livestock farming
- Geotermia
- Pressure groups
- Industry
- Sports facilities
- Outdoor installations
- Indoor installations
- Mining
- Navy
- Civil work
- Swimming pools
- Chemicals



THE REPOLEN SYSTEM

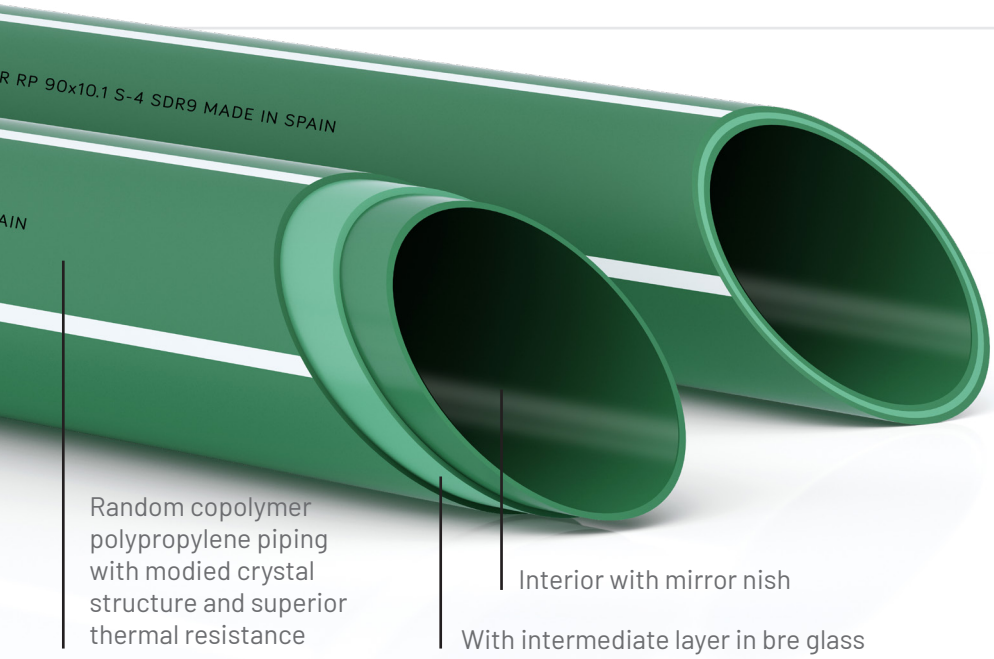
- NON-TOXIC
- HIGHLY RESISTANT TO PRESSURE
- SUPERB ELECTRICAL INSULATOR
- VERY LOW CELERITY
- ACOUSTIC INSULATION PROPERTIES
- VERY EASY TO ASSEMBLE
- LOW HEAT LOSS



SDR 7,4

REPOLEN PIPE
FASER RP

Multilayer piping perfect for hydraulic and air conditioning projects.



Random copolymer polypropylene piping with modied crystal structure and superior thermal resistance

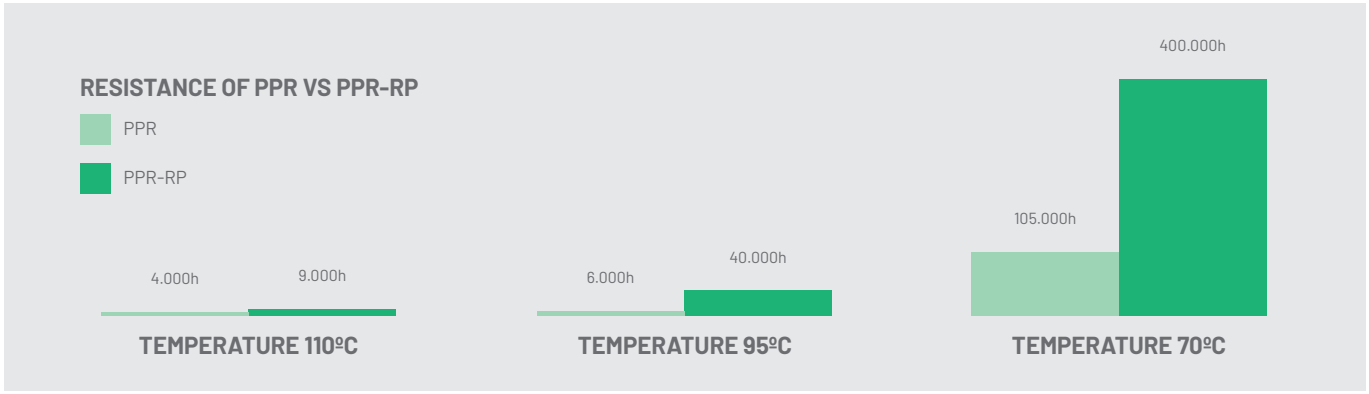
Interior with mirror nish

With intermediate layer in bre glass

FEATURES

Structure	MCF (MULTILAYER WITH FV, FASER)
Material	PPR-RP REPOLEN
Standard	UNE EN 15874 RP 001.78 UNE EN ISO 21003
Colour	GREEN RAL 6024 WITH 4 WHITE STRIPES
Supply	BARS 4M. PACKAGING

REPOLEN SYSTEM ADVANTAGES



FIBRE GLASS

Manufactured from Polypropylene PPR-RP, it features an intermediate layer in bre glass that provides greater linear stiffness, increased distance between supports, and better reaction to the expansions and contractions experienced by the installation.
Valid for hydraulic and air conditioning projects.

MAXIMUM QUALITY

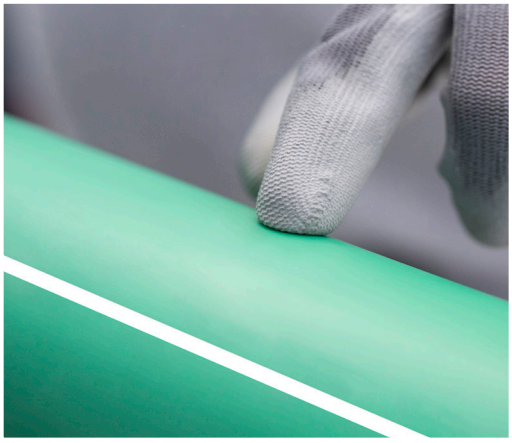
Greater stability and thermal resistance of PP-R RP compared to PP-R.
REPOLEN FASER RP pipes resist for more than 30 years a continuous dosage of 4.3 ppm of sodium hypochlorite at 60ºC.
The REPOLEN FASER RP System minimises degradation and increases the durability of the installation.

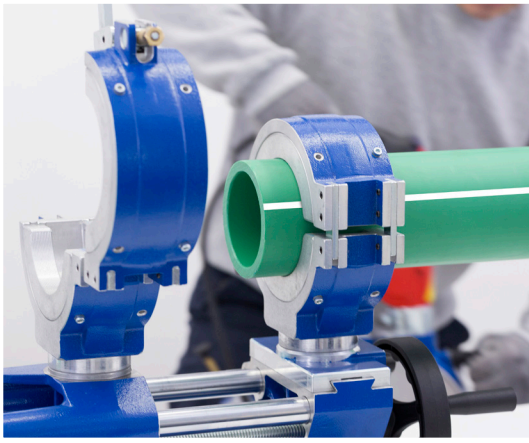
Thermal conductivity coecient
alpha = 0,15 w/mºK

In addition, the piping in the REPOLEN Socket system of pipes and ttings feature light and exible properties that help simplify and reduce the costs associated with assembly and installation.

APLICATIONS

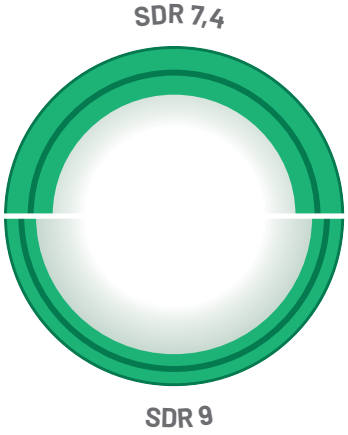
- ACF
- AFS
- Agriculture
- Refrigerated water
- Reclaimed water
- Compressed air
- Heating
- Air conditioning
- Livestock farming
- Geothermal energy
- Pressure groups
- Industry
- Sports facilities
- Outdoor installations
- Indoor installations
- Mining
- Navy
- Civil work
- Swimming pools
- Chemicals





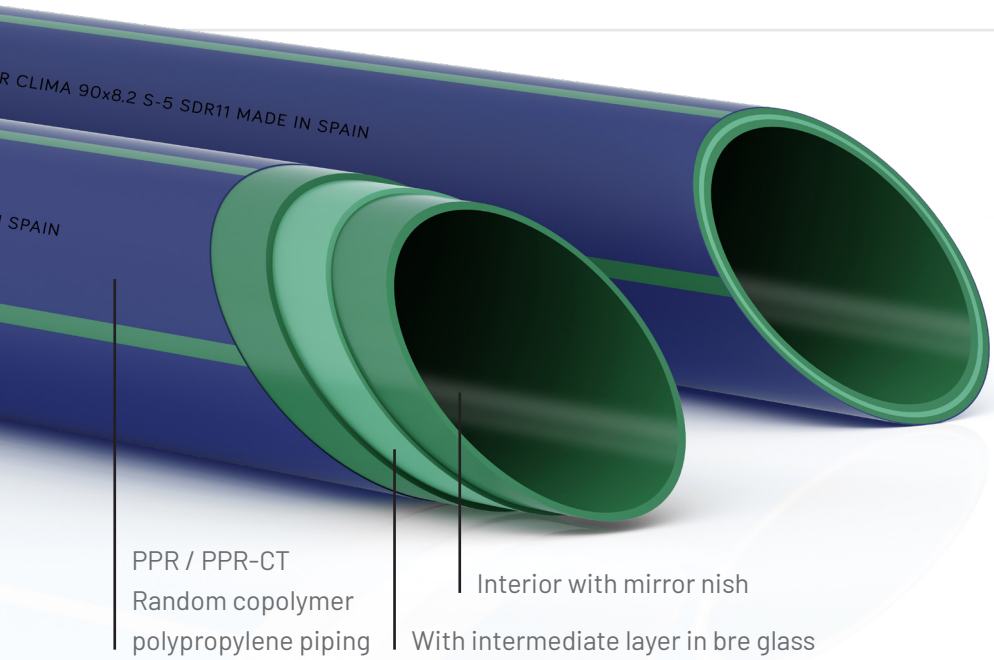
THE REPOLEN SYSTEM

- NON-TOXIC
- HIGHLY RESISTANT TO PRESSURE
- SUPERB ELECTRICAL INSULATOR
- VERY LOW CELERITY
- ACOUSTIC INSULATION PROPERTIES
- VERY EASY TO ASSEMBLE
- LOW HEAT LOSS



REPOLEN PIPE
FASER CLIMA

For air conditioning, heating, and industrial installations.



FEATURES

Structure	MCF (MULTILAYER FV, FASER)
Material	PP-R / PPR-CT REPOLEN
Standard	UNE EN 15874
	RP 001.72
	UNE EN ISO 21003
	DIN 8077
	RP.001.78
Colour	GREEN RAL 6024 INTERIOR
	BLUE EXT., GREEN STRIPES
Supply	4M./5.8M. BARS
	PACKAGING

REPOLEN SYSTEM ADVANTAGES

ENERGY EFFICIENCY

Compared to metallic piping, the Repolen piping and ttings system requires less insulation thickness as it offers high thermal eciency.

FIGHTS CORROSION AND REMOVES FOULING

The low roughness coecient of the REPOLEN FASER CLIMA pipe, r=0.007, favours the reduction of fouling in the piping internal walls, a lower pressure drop in the installation, and ensures the internal passage of uids over time.

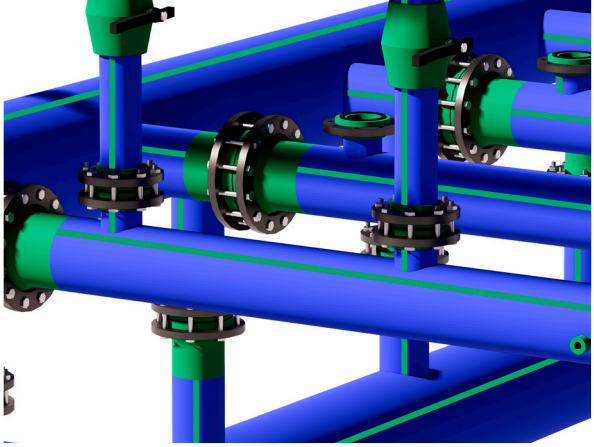
Corrosion, which is caused by condensation, appears on the outer surface of the pipe in circuits installed with steel pipes. However, in installations performed using REPOLEN FASER CLIMA piping, the service life is increased as corrosion is not generated.

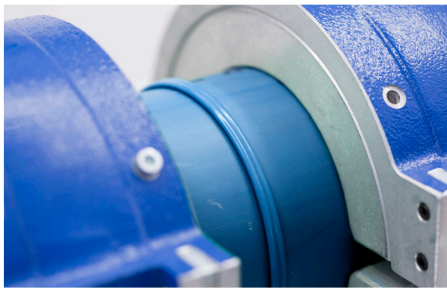
Thermal conductivity coecient
alpha = 0,15 w/mºK

In addition, the piping in the REPOLEN Socket system of pipes and ttings feature light and exible properties that help simplify and reduce the costs associated with assembly and installation.

APLICATIONS

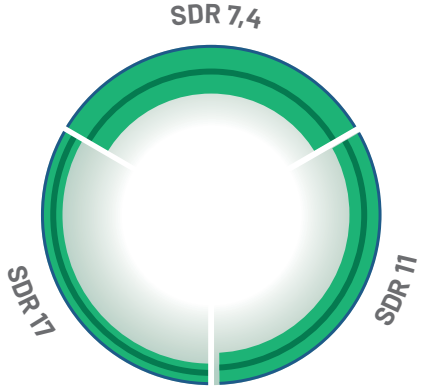
- ACF
- AFS
- Agriculture
- Refrigerated water
- Reclaimed water
- Compressed air
- Heating
- Air conditioning
- Livestock farming
- Geothermal energy
- Pressure groups
- Industry
- Sports facilities
- Outdoor installations
- Indoor installations
- Mining
- Naval
- Civil work
- Swimming pools
- Chemicals





THE REPOLEN SYSTEM

- NON-TOXIC
- HIGHLY RESISTANT TO PRESSURE
- SUPERB ELECTRICAL INSULATOR
- VERY LOW CELERITY
- ACOUSTIC INSULATION PROPERTIES
- VERY EASY TO ASSEMBLE
- LOW HEAT LOSS



REPOLEN PIPE

FASER RP UV / FASER CLIMA UV

Multilayer piping perfect for hydraulic and air conditioning projects.

FEATURES

Structure	MCF (MULTILAYER WITH FV, FASER)
Material	PP-R / PPR-CT REPOLEN
Standard	UNE EN 15874 UNE EN ISO 21003 RP 001.78 / RP 001.72
Color	BLACK EXTERIOR, GREEN RAL 6024 INTERIOR
Supply	BARS 4M. PACKAGING

REPOLEN SYSTEM ADVANTAGES

SUN PROTECTION BY MEANS OF ITS UV LAYER

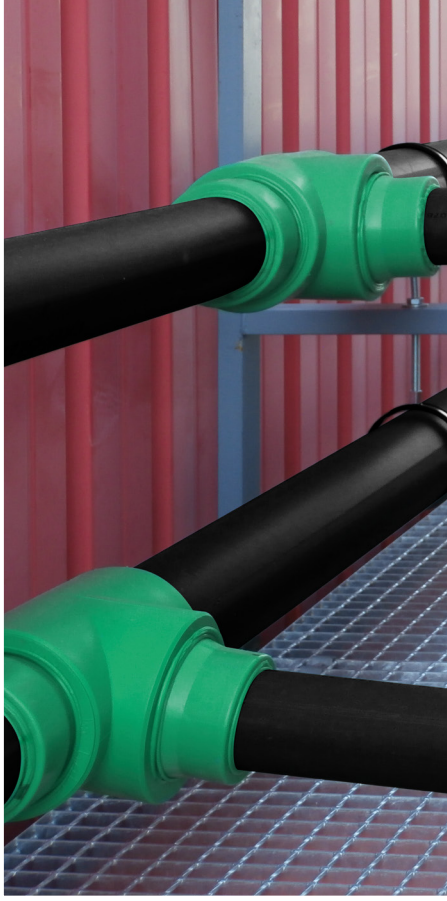
The standard polymers on the market deteriorate if they remain outdoors, mainly due to the ultraviolet component on sunlight as they do not have protection against these radiations.
FASER RP UV and FASER CLIMA UV REPOLEN piping are made up by an external layer with corrosion inhibitors that minimise the degradation produced by sun exposure over time.

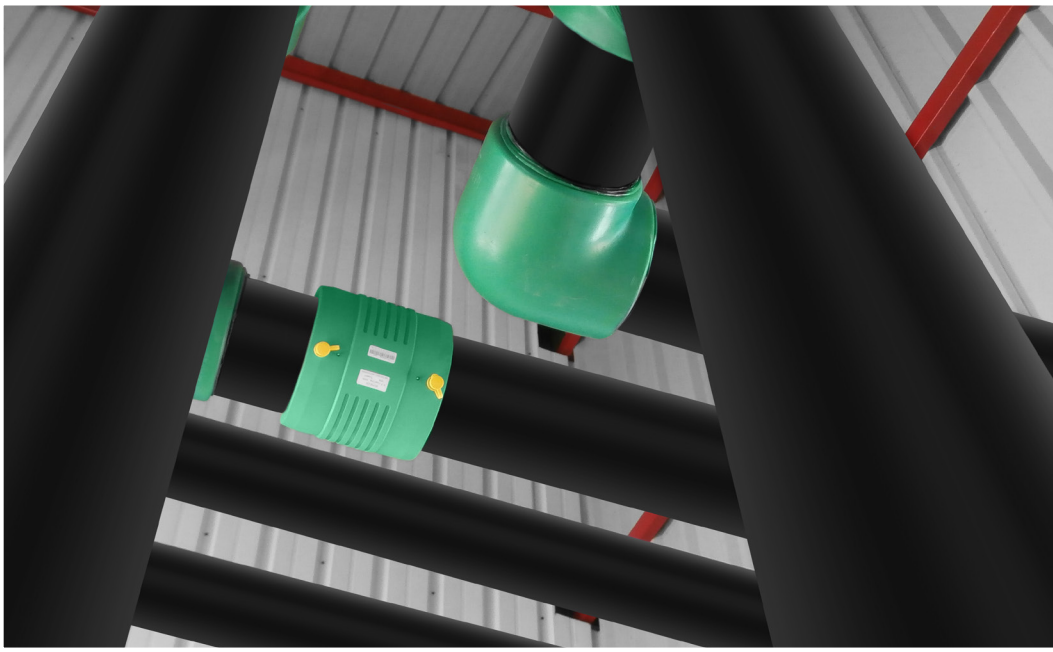
Thermal conductivity coecient
alpha = 0,15 w/mºK

In addition, the piping in the REPOLEN Socket system of pipes and ttings feature light and exible properties that help simplify and reduce the costs associated with assembly and installation.

APLICATIONS

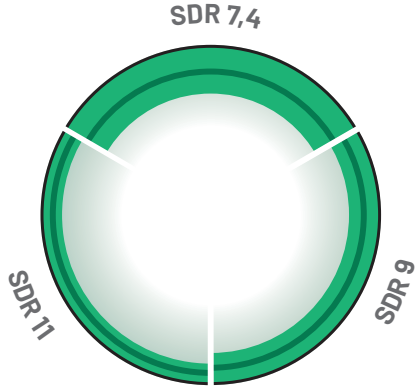
- ACF
- AFS
- Agriculture
- Refrigerated water
- Reclaimed water
- Compressed air
- Heating
- Air conditioning
- Livestock farming
- Geothermal energy
- Pressure groups
- Industry
- Sports facilities
- Outdoor installations
- Indoor installations
- Mining
- Navy
- Civil work
- Swimming pools
- Chemicals





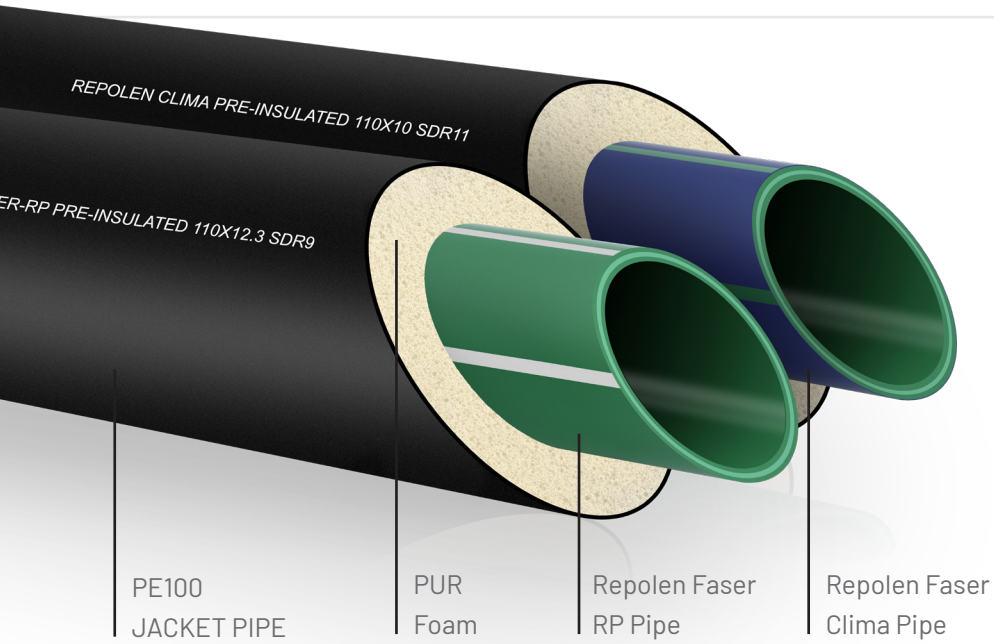
THE REPOLEN SYSTEM

- NON-TOXIC
- HIGHLY RESISTANT TO PRESSURE
- SUPERB ELECTRICAL INSULATOR
- VERY LOW CELERITY
- ACOUSTIC INSULATION PROPERTIES
- VERY EASY TO ASSEMBLE
- LOW HEAT LOSS



REPOLEN PIPE
PRE-INSULATED

SDR 9 - SDR 11



FEATURES

Structure	MLP (Multilayer FG Faser)
Material	PP-R / PPR-CT REPOLEN
Standard	UNE EN 253
Supply	5.8 LENGTH PIPE

REPOLEN PRE-INSULATED SYSTEM ADVANTAGES

One of the most energy efficient systems in the transport of hot and chilled water for large distances is the use of REPOLEN PRE-INSULATED PIPES.

To achieve the thermal insulation needs of this type of applications, Repolen Offers Pre-Insultated pipes factory made with different SDR. The piping system are insulated with polyurethane foam (PUR) and covered with PE100 jacket pipe.

This expanded polyurethane foam is made with Polyol and Isocyanant and meets the requirements.

SPECS OF PUR-HFO FOAM

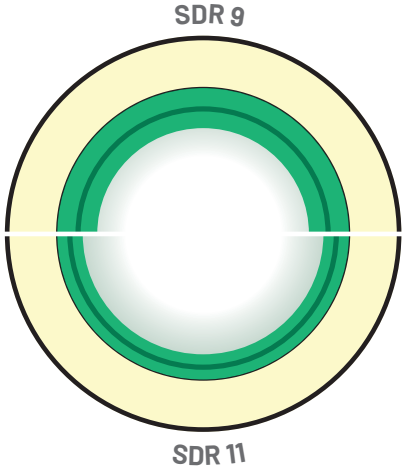
Tech data	Units	PUR
Apparent core density	Kg/m^3	>55
Compression resistance (10%)	KPa	>160
Closed cells	%	>90
Thermal conductivity coefficient	W/mºC	<0,026

APLICATIONS

- ACF
- AFS
- Agriculture
- Refrigerated water
- Reclaimed water
- Compressed air
- Heating
- Air conditioning
- Livestock farming
- Geothermal energy
- Pressure groups
- Industry
- Sports facilities
- Outdoor installations
- Indoor installations
- Mining
- Navy
- Civil work
- Swimming pools
- Chemicals

ADVANTAGES

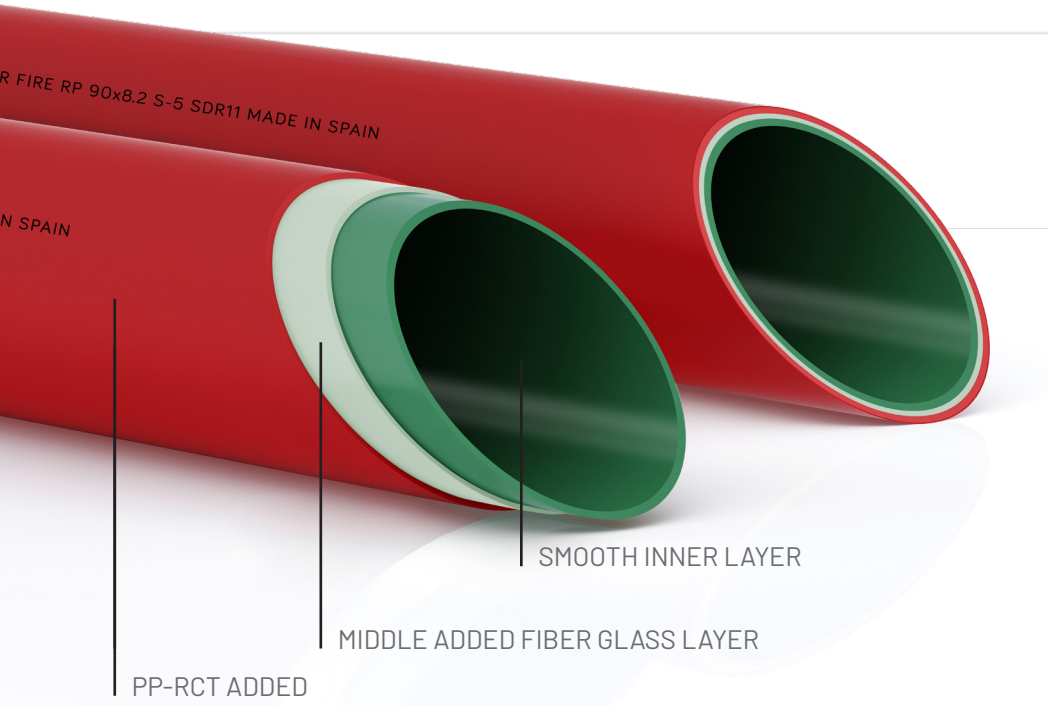
- LOW THERMAL CONDUCTIVITY
- IMPROVE ENERGY EFFICIENCY
- UV PE100 JACKET PIPE PROTECTION
- ECOLOGICAL
- CORROSION RESISTANCE
- REDUCES ENERGY LOSSES
- SN4 PP SN4 TO BURY
- RECYCLABLE



REPOLEN PIPE
FASER FIRE RP

Repolen fire rp system free of halogen for chargued water pression bies and automàtic sprinkler networks.

B-s1, d0 fire reaction



FEATURES

Structure	MULTILAYER
Material	PP-RCT ADDED
Standard	UNE EN 12845
	UNE EN 23500
	RIPCI
	RSCIEI
Colour	GREEN RAL 6024 INTERIOR
	RED RAL 3028 EXTERIOR
Supply	BARS 4M.
	PACKAGING

ADVANTAGES REPOLEN FASER RP FIRE SYSTEM

- Halogen Free
- PP-RCT pipes and fittings
- Fiber glass Reinforced middle layer pipes
- According RIPCI
- According RSCIEI
- Bs1, d0 fire reaction
- Long live
- Corrosion resistant
- Safe union
- Lighter than iron
- Fast saddle connections
- Fast ejecution = less money

According the CTE is allowed for normalized equipped Bies of 25mm and 40mm.

Automatic sprinkler systems only allowed and authorized for wet installation, branched networks, waters down the control side and there must be no valves or items that interrupt the flow.

Thermal conductivity coecient

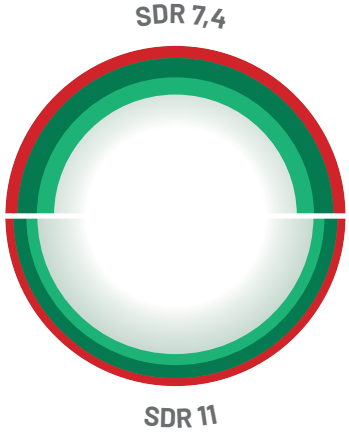
alpha = 0,15 w/mºK

APLICATIONS

- Bies
- Automatic sprinkers
- Indoor facilities
- School centro
- Cinema and theater
- Mall
- Penitenciary centres
- Museum
- Hotels
- Hospitals
- Industrial facilities

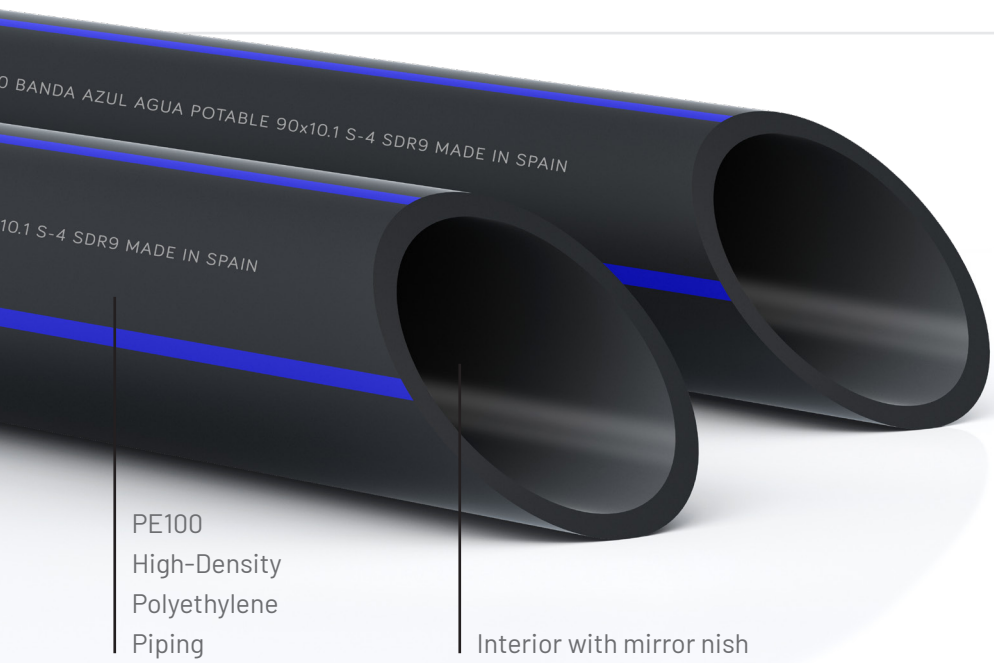
TECHNICAL ASPECTS

- **HALOGEN FREE**
- **PREFABRICATED**
- DURABILITY
- IMPACT RESISTANT
- FRIENDLY ENVIROMENT
- CORROSION FREE
- **B-S1, D0 FIRE REACTION**
- RESISTENT TO DESINFECTION PROCESSES



REPOLEN PIPING
HDPE

Suitable for sanitary cold water installations and fluids under pressure.



FEATURES

Structure	SINGLE-LAYER
Material	PE100 REPOLEN
Standard	UNE EN 12201
	RP 001.01
	RD140/2003
	DIN 8074
Colour	EXT. BLACK WITH 4
	BLUE STRIPES
Supply	4M BARS
	BAGGED

ADVANTAGES OF USING HIGH-DENSITY POLYETHYLENE PIPES (PE-100)

DURABILITY
The polyethylene pipe service life is calculated over a minimum operating period of 50 years.
UNE EN 12201 standard.

UNAFFECTED BY FREEZING
The high resistance to freezing means that, as the water inside the pipe freezes, the increase in volume does not break the pipe as a result of its exibility.

RESISTANCE
Highly resistant to corrosion and most chemicals. Additionally, the low surface roughness of its inner walls promotes reduced loss of load due to almost zero friction.

NO SEDIMENTS AND FOULING
Smooth inner walls prevent algae deposits or other fouling or build-up, keeping the internal diameter of the installed pipe constant for years.

NON-TOXIC
Polyethylene pipes are odourless, tasteless, and non-toxic, making them a perfect material for supplying drinking water.

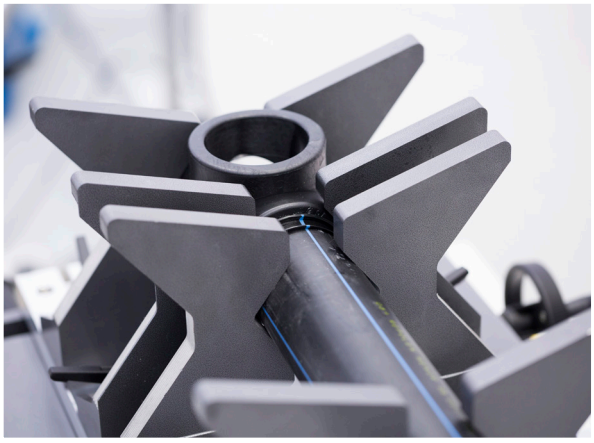
FLEXIBILITY AND ELASTICITY
Promotes and simplies layouts in installations with greater sinuosity, and provides greater resistance to water hammer in polyethylene piping compared to others made using rigid materials.

EASY TO INSTALL AND WIDE RANGE OF APPLICATIONS
The ease of assembly, variety of ttings and pipe diameters, choice of solutions and reliable welds enable their application in DCW installations, overhead installations, trenching, plough with mole drain systems, pre-existing pipe plumbing systems, etc.

LIGHT
The easy handling of the pipes and low weight mean a great opportunity for use in those installations where access is difficult.

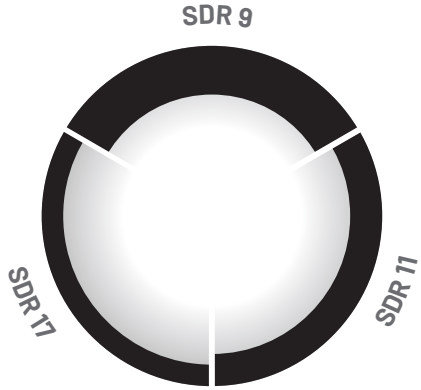
APLICATIONS

- ACF
- AFS
- Agriculture
- Refrigerated water
- Reclaimed water
- Compressed air
- Heating
- Air conditioning
- Livestock farming
- Geothermal energy
- Pressure groups
- Industry
- Sports facilities
- lOutdoor installations
- Indoor installations
- Mining
- Navy
- Civil work
- Swimming pools
- Chemicals



THE REPOLEN SYSTEM

- NON-TOXIC
- HIGHLY RESISTANT TO PRESSURE
- ELECTRICAL INSULATOR
- VERY LOW CELERITY
- ACOUSTIC INSULATION PROPERTIES
- VERY EASY TO ASSEMBLE
- LOW HEAT LOSS



MANIFOLDS & ESPECIAL FITTINGS

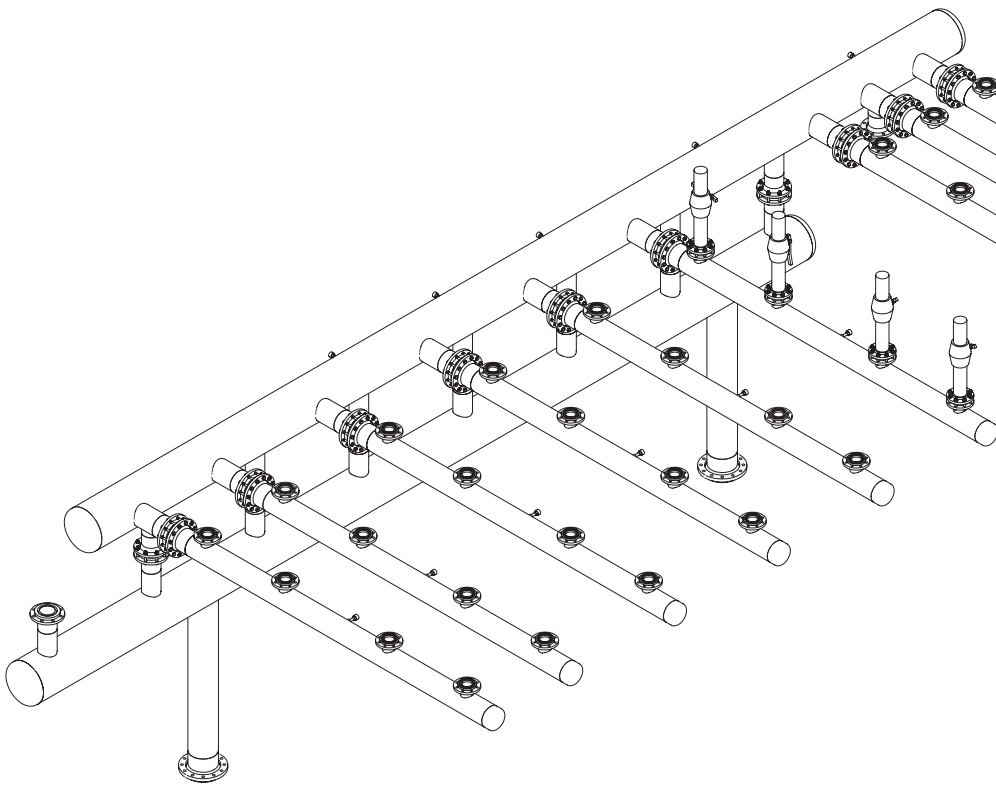
THE REPOLEN SYSTEM

- NON-TOXIC
- HIGHLY RESISTANT TO PRESSURE
- SUPERB ELECTRICAL INSULATOR
- VERY LOW CELERITY
- ACOUSTIC INSULATION PROPERTIES
- VERY EASY TO ASSEMBLE
- LOW HEAT LOSS

- Custom design and manufacturing
- Calculation and review
- Advice and selection of material Ideal for new.
- Installations, renovations, or refurbishments.
- It does not add taste or odour to water.

FEATURES

Material	PP-R REPOLEN PPR-CT REPOLEN PE-100 REPOLEN
Standard	UNE EN 53943 UNE EN 15494
Sockets	Distance between standard sockets: 12cm.
Advantages	Absence of corrosion. High mechanical resistance. Reduced own weight. Noise reduction. Greater absorption of water hammers.



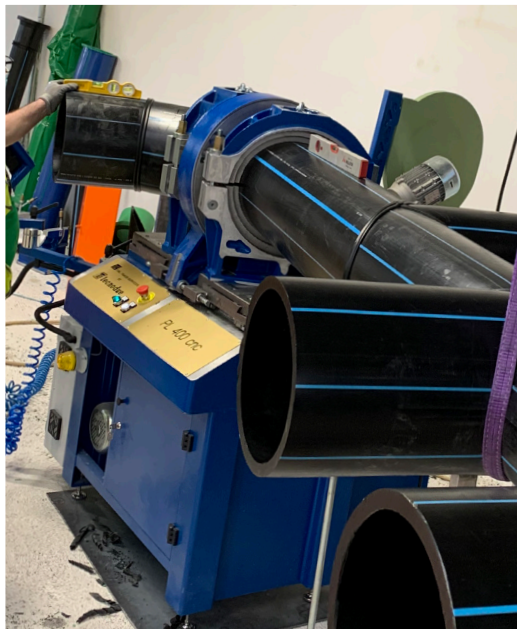
With the objective of reducing the execution times and maximizing the benefit of our customers, reboca sl implemented the prefabrication of manifolds and special parts with the bim methodology.

How is it possible?
By providing us with a simple sketch of what you want, our engineering department designs a manifold or prefabricated piece using our bim. The result is a 3d plan with all the dimensions of the part in question.

APLICATIONS

- ACF
- AFS
- Agriculture
- Refrigerated water
- Reclaimed water
- Compressed air
- Heating
- Air conditioning
- Livestock farming
- Geothermal energy
- Pressure groups
- Industry
- Sports facilities
- Outdoor installations
- Indoor installations
- Mining
- Navy
- Civil work
- Swimming pools
- Chemicals

DISEÑA CONSTRUYE CREA
BIM
PRODUCTOS REPOLEN



REPOLEN FITTINGS
PPR

SDR 6
SDR 7,4
SDR 9
SDR11

Indicated for dcw, dhw, and air conditioning network installation, transport of liquid food, and chemical products.

PPR REPOLEN FI TTINGS: ADVANTAGES

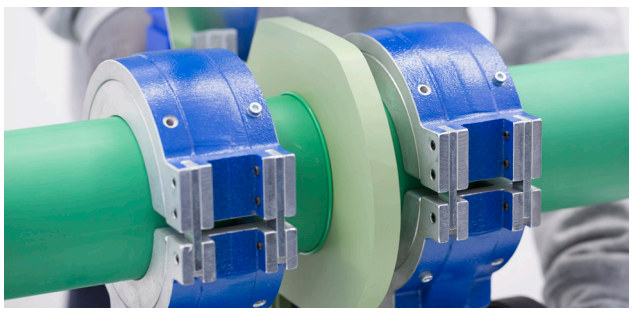
- NON-TOXIC
- HIGHLY RESISTANT TO PRESSURE
- ELECTRICAL INSULATOR
- VERY LOW CELERITY
- ACOUSTIC INSULATION PROPERTIES
- VERY EASY TO ASSEMBLE
- LOW HEAT LOSS

THERMOFUSION WELDED JOINTS

Nuclear fusion joints of piping and fittings in the REPOLEN PPR System can be carried out through:

SOCKET WELDING

It consists of heating the matrices and placing them on the external cross-section of the pipe and inside the fitting. After the heating time has elapsed, both sides of the pipe-fitting system are joined.



ELECTROFUSION WELDING

The joining process is carried out by using the resistance incorporated in the fitting. Recommended for installations with long piping and difficult access.

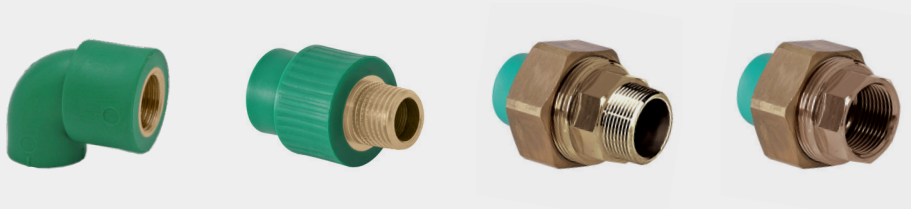
BUTT WELDING

It consists of heating the ends of the pipe-fitting by means of a heating plate. Both components must have the same wall thickness, face each other and be aligned.

APLICATIONS

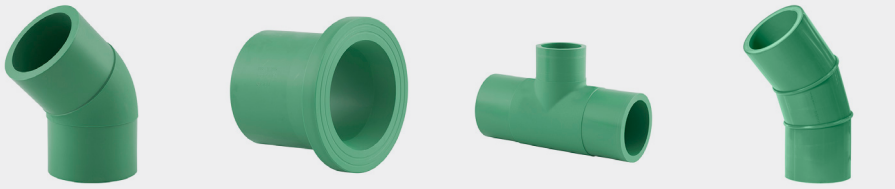
- ACF
- AFS
- Agriculture
- Refrigerated water
- Reclaimed water
- Compressed air
- Heating
- Air conditioning
- Livestock farming
- Geothermal energy
- Pressure groups
- Industry
- Sports facilities
- Outdoor installations
- Indoor installations
- Mining
- Navy
- Civil work
- Swimming pools
- Chemicals

HDPE SOCKET FITTINGS



MIXED PPR FITTINGS

PPR BODY VALVE FITTINGS



PPR BUTT FITTINGS

PPR ELECTROWELDABLE FITTINGS

PPR
Random
copolymer
polypropylene fitting

Smooth inner walls

FEATURES

Material	PP R REPOLEN
Colour	GREEN RAL 6024
Standard	UNE EN 15874
	RP 001.16
	RD 140/2003
Material Density	905 kg/m3
Thermal conductivity	0,24 w/ m°k

REPOLEN FITTINGS
HDPE

SDR 9 (PN20)
SDR 11 (PN16)
SDR 17 (PN10)

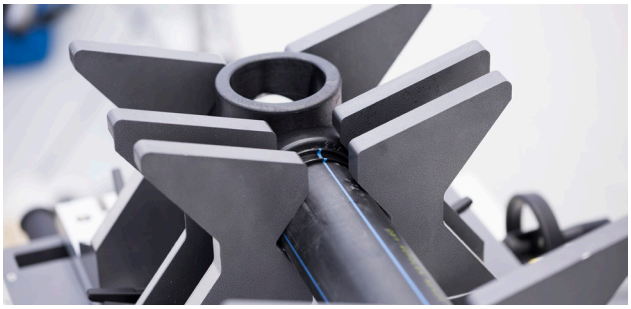
Fittings for the installation of sanitary water networks, supply networks, compressed air, pressure groups, geothermal and pressure fluids.

HDPE REPOLEN FIT TINGS: ADVANTAGES

- NON-TOXIC
- HIGHLY RESISTANT TO PRESSURE
- ELECTRICAL INSULATOR
- VERY LOW CELERITY
- ACOUSTIC INSULATION PROPERTIES
- VERY EASY TO ASSEMBLE
- LOW HEAT LOSS

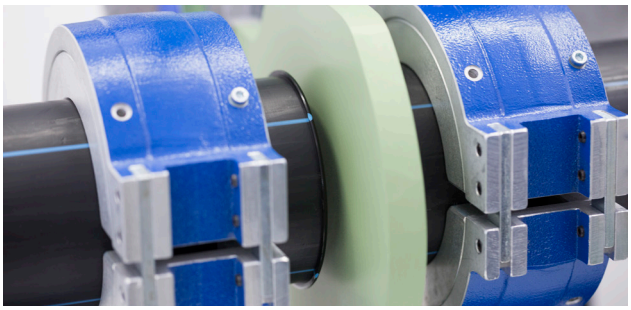
THERMOFUSION WELDED JOINTS

Nuclear fusion joints of piping and fittings in the REPOLEN PPR System can be carried out through:



SOCKET WELDING

It consists of heating the matrices and placing them on the external cross-section of the pipe and inside the fitting. After the heating time has elapsed, both sides of the pipe-fitting system are joined.



ELECTROFUSION WELDING

The joining process is carried out by using the Smooth inner walls resistance incorporated in the fitting. Recommended for installations with long piping and difficult access.

BUTT WELDING

It consists of heating the ends of the pipe-fitting by means of a heating plate. Both components must have the same wall thickness, face each other and be aligned.

APLICATIONS

- ACF
- AFS
- Agriculture
- Refrigerated water
- Reclaimed water
- Compressed air
- Heating
- Air conditioning
- Livestock farming
- Geothermal energy
- Pressure groups
- Industry
- Sports facilities
- Outdoor installations
- Indoor installations
- Mining
- Navy
- Civil work
- Swimming pools
- Chemicals

HDPE SOCKET FITTINGS

MIXED HDPE FITTINGS

HDPE BODY VALVE FITTINGS

HDPE BUTT FITTINGS

HDPE ELECTROWELDABLE FITTINGS

PE100
High-Density
Polyethylene
Fittings

Smooth inner walls

FEATURES

Material	PE 100 REPOLEN
Colour	BLACK
Standard	UNE EN 12201 RD 140/2003
Material Density	959-965 kg/m3
Thermal conductivity	0,37 w/ m°k


REPOLEN

MADE IN SPAIN

PRODUCTO FABRICADO Y DISTRIBUIDO POR REBOCA SL
CLARIANO N6 - APDO 92
46850 - L'OLLERIA - VALENCIA - SPAIN
TEL. +34 96 220 02 98 - FAX +34 96 220 00 13
REBOCA@REBOCA.COM - WWW.REBOCA.COM