

www.pipex.es

PIPEX[®]

THINK FLEXIBLE

CATALOGUE 2026



Pipex Group

Auray Managing, S.L.U. ·
C. Mercaders 4 · P.I.
Riera de Caldes · 08184
Palau-solità i Plegamans
· Barcelona, Spain · Tel.
+34 937 481 036
info@auray.es



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Introduction

Since our beginnings in 2000, we have been passionately committed to innovation, and today, we are proud to play a revolutionary role in the domestic water and heating plumbing pipe sector. With an unwavering dedication to excellence, we offer a range of world-class OEM and PIPEX products, backed by competitive pricing and customized solutions designed to meet the specific needs of our customers.

We are a leading company in Europe, specializing in the manufacture of PE-Xa, PE-Xb, PE-RT, PE-RT/AL/PE-RT and PE-X/AL/PE-X pipes, currently, our business group is made up of 7 companies:

- | | |
|--|-----------------------|
| 1. AURAY MANAGING S.L.U. | Barcelona, Spain. |
| 2. PIPEX EXTRUSION S.A. | Ciudad Real, Spain. |
| 3. DUOPIPE SYSTEMS L.D.A. | Porto, Portugal. |
| 4. LEHENTECH, D.O.O. | Cerkvenjak, Slovenia. |
| 5. TIO CLIMATE SOLUTIONS LTD | Abingdon, U.K. |
| 6. INHEAT | Hungary. |
| 7. PIPE WATER SOLUTIONS, S.L.U. | Ciudad Real, Spain. |

With decades of experience in the plastic pipe extrusion industry, we have perfected our art and established a quality standard unmatched in the market.

We strive to be more than just suppliers. We aspire to be your trusted partners at every stage of your business project. Our commitment goes beyond delivering excellent products. We are committed to supporting your vision with a dedicated team of sales, production, technical, and quality control experts. We view your success as our success and are proud to offer our resources and expertise as an extension of your team, giving you a competitive advantage in your market.

At the heart of our mission is the desire to provide the best product and service experience possible. We firmly believe that by growing our clients, we also strengthen our position in the market. Your satisfaction and prosperity are our top priority, and we are committed to working tirelessly to ensure that every interaction with our company is exceptional.

Join us on our journey to mutual success. Find out how we can help you achieve your business goals and overcome any challenge with confidence. At Pipex, your vision is our passion, and your success is our commitment.

PIPEX[®]
PIPEX EXTRUSION, S.A.



PWS
PIPE WATER SOLUTIONS, S.L.U.

DUOFIL
DUOPIPE SYSTEMS, UNIPESOAL, LDA.



LehenTech
LEHENTECH, D.O.O.

tio
TIO CLIMATE SOLUTIONS LTD





PIPES



PIPEX[®]
THINK FLEXIBLE

PE-Xa: Cross-linked polyethylene pipe



Pipe made from cross-linked polyethylene (PE-Xa). Offers superior resistance to high temperatures and increased efficiency in the market.

PHYSICAL PROPERTIES

Material	Crosslinked Polyethylene type "a"
Density	>0.951 g/cm ³
Crosslinking degree	>70%
Roughness	0.007 mm

THERMAL PROPERTIES

Working temperature range according Standard: EN ISO 15875	From 20°C to 90°C
Operating Temperature Range	From -10 °C to 90 °C
Heat reversal (120 °C, 1 hour)	≤ 3%
Thermal conductivity	0.35 - 0.38 W / m*K
Specific heat (23 °C)	2.3 KJ/kg*K
Lineal extension coefficient	0.026 mm/m*K

DIMENSIONS

Reference	Description (mm)	Diameter tolerance (mm)	Thickness tolerance (mm)
11011211000	12 x 1.1	12.0 - 12.30	1.10 - 1.40
11011213000	12 x 1.3	12.0 - 12.30	1.30 - 1.60
11011220000	12 x 2.0	12.0 - 12.30	2.00 - 2.30
11011420000	14 x 2.0	14.0 - 14.30	2.00 - 2.30
11011515000	15 x 1.5	15.0 - 15.30	1.50 - 1.80
11011525000	15 x 2.5	15.0 - 15.30	2.50 - 2.80
11011615000	16 x 1.5	16.0 - 16.30	1.50 - 1.80
11011618000	16 x 1.8	16.0 - 16.30	1.80 - 2.10
11011620000	16 x 2.0	16.0 - 16.30	2.00 - 2.30
11011622000	16 x 2.2	16.0 - 16.30	2.20 - 2.50
11011720000	17 x 2.0	17.0 - 17.30	2.00 - 2.30
11011820000	18 x 2.0	18.0 - 18.30	2.00 - 2.30
11011825000	18 x 2.5	18.0 - 18.30	2.50 - 2.80
11012019000	20 x 1.9	20.0 - 20.30	1.90 - 2.20
11012020000	20 x 2.0	20.0 - 20.30	2.00 - 2.30
11012028000	20 x 2.8	20.0 - 20.30	2.80 - 3.10
11012230000	22 x 3.0	22.0 - 22.30	3.00 - 3.30
11012523000	25 x 2.3	25.0 - 25.30	2.30 - 2.50
11012535000	25 x 3.5	25.0 - 25.30	3.50 - 3.80
11012830000	28 x 3.0	28.0 - 28.30	3.00 - 3.30
11013229000	32 x 2.9	32.0 - 32.30	2.90 - 3.20
11013244000	32 x 4.4	32.0 - 32.30	4.40 - 4.70

Other dimensions and colours are available on request.
Multiple options are available for meters/coils. To consult.

**COMPATIBLE WITH
PIPEX SYSTEMS**

PAND-PEX™

Cold Expansion Sleeve System

PULLFIT™

Sliding Sleeve System

PN6 / PN10

NEXUS

Push-Fit System

CERTIFICATIONS

- AENOR (Spain)
- SKZ (Germany)
- DIN CERTCO (Germany)
- IIP (Italy)
- KOMO (Netherlands)
- AFNOR (France)
- QB (France)
- WRAS (U.K.)
- SINTEF (Scandinavia)

STANDARD

- UNE-EN ISO 15875

APPLICATIONS

- Hot/cold water distributions
- Sanitary facilities



PE-Xa with Oxygen Barrier – EVOH

Engineered to surpass industry standards, these pipes are renowned for their exceptional flexibility and unmatched durability, ensuring optimal performance over the long term.

PHYSICAL PROPERTIES

Density	> 0.951 Kg/cm ³
Crosslinking degree	≥70%
Roughness	0.007 mm
O ₂ permeability at 40 °C	≤ 0,32 g/m ² *d

THERMAL PROPERTIES

Working temperature range according Standard: EN ISO 15875	20 °C to 90 °C
Operating Temperature Range	-10 °C to 90 °C
Heat reversal (120 °C, 1 hour)	≤ 3%
Thermal conductivity	0.35 - 0.38 W / m*K
Specific heat (23 °C)	2.3 KJ/kg*K
Linear expansion coefficient	0.026 mm/m*K

DIMENSIONS

Reference		Description (mm)	Diameter tolerance (mm)	Thickness tolerance (mm)
3 layers	5 layers			
11031211000	11051211000	12 x 1.1	12.0 - 12.30	1.10 - 1.40
11031220000	11051220000	12 x 2.0	12.0 - 12.30	1.10 - 1.40
11031420000	11051420000	14 x 2.0	14.0 - 14.30	2.00 - 2.30
11031515000	11051515000	15 x 1.5	15.0 - 15.30	1.50 - 1.80
11031525000	11051525000	15 x 2.5	15.0 - 15.30	2.50 - 2.80
11031615000	11051615000	16 x 1.5	16.0 - 16.30	1.50 - 1.80
11031618000	11051618000	16 x 1.8	16.0 - 16.30	1.80 - 2.10
11031620000	11051620000	16 x 2.0	16.0 - 16.30	2.00 - 2.30
11031622000	11051622000	16 x 2.2	16.0 - 16.30	2.20 - 2.50
11031720000	11051720000	17 x 2.0	17.0 - 17.30	2.00 - 2.30
11031820000	11051820000	18 x 2.0	18.0 - 18.30	2.00 - 2.30
11031825000	11051825000	18 x 2.5	18.0 - 18.30	2.50 - 2.80
11032019000	11052019000	20 x 1.9	20.0 - 20.30	1.90 - 2.20
11032020000	11052020000	20 x 2.0	20.0 - 20.30	2.00 - 2.30
11032028000	11052028000	20 x 2.8	20.0 - 20.30	2.80 - 3.10
11032230000	11052230000	22 x 3.0	22.0 - 22.30	3.00 - 3.30
11032523000	11052523000	25 x 2.3	25.0 - 25.30	2.30 - 2.50
11032535000	11052535000	25 x 3.5	25.0 - 25.30	3.50 - 3.80
11032830000	11052830000	28 x 3.0	28.0 - 28.30	3.00 - 3.30
11033229000	11053229000	32 x 2.9	32.0 - 32.30	2.90 - 3.20
11033244000	11053244000	32 x 4.4	32.0 - 32.30	4.40 - 4.70

Other dimensions and colours are available on request.
Multiple options are available for meters/coils. To consult.



COMPATIBLE WITH PIPEX SYSTEMS

PAND-PEX™

Cold Expansion Sleeve System

PULLFITT™

Sliding Sleeve System

PN6 / PN10

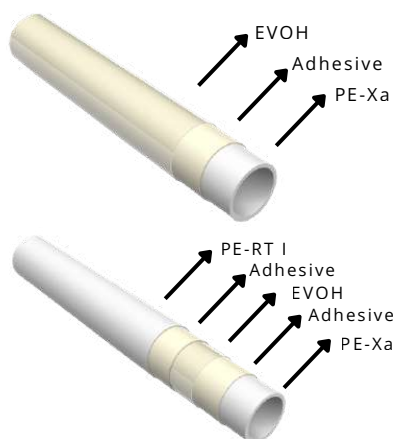
NEXUS

Push-Fit System

FLOOR™

Underfloor Heating System

3 - 5 layers



CERTIFICATIONS

- AENOR (Spain)
- SKZ (Germany)
- DIN CERTCO (Germany)
- IIP (Italy)
- KOMO (Netherlands)
- AFNOR (France)
- QB (France)
- WRAS (U.K.)
- SINTEF (Scandinavia)

STANDARD

- UNE-EN ISO 15875

PE-Xa UV Black Protection



PE-Xa UV Black is developed using high-density polyethylene (HDPE) through the peroxide method with the I.R. infrared system. The crosslinking process, exceeding 70%, is carried out at a temperature above the polyethylene melting point.

Specifically designed for outdoor applications, its black layer with UV stabilizing additives provides high resistance to degradation caused by solar radiation, ensuring greater durability in outdoor installations. Manufactured in compliance with UNE-EN ISO 15875 standard.

PHYSICAL PROPERTIES

Density	> 0.950 g/cm ³
Degree of crosslinking	> 70 %
Roughness	0.007 mm

THERMAL PROPERTIES

Minimum working temperature	-40 °C
Maximum working temperature	95 °C
Max. malfunction temperature	100 °C
Heat reversal (120 °C, 1 hour)	≤ 3.0 %
Thermal conductivity	0.40 W / m*K
Specific heat (23 °C)	2.3 KJ/kg*K
Coefficient of linear extension	0.020 mm/m*K

**COMPATIBLE WITH
PIPEX SYSTEMS**

NEXUS

Push-Fit System

XPULLFIT

Sliding Sleeve System

PN10

STANDARD

- UNE-EN ISO 15875

DIMENSIONS

Reference	Outer Diameter x Thickness (mm)	Inner Diameter (mm)	Weight (kg/m)	Volume (l/m)
11011620090	16 x 2.0	12	0.084	0.113
11012020090	20 x 2.0	16	0.108	0.201
11012523090	25 x 2.3	20.4	0.168	0.314
11013229090	32 x 2.9	26.2	0.260	0.531





Product information and Application use

PIPEX Pex-a tubing is the most appropriated method of distribution for hot/cold water and radiant heat. Its flexibility and ease of installation properties make this product a better option than copper.

PHYSICAL PROPERTIES

Material	Crosslinked Polyethylene type 'a'
Density	>0.059 lb/ft ³
Crosslinking degree	≥70%

**COMPATIBLE WITH
PIPEX SYSTEMS**

PAND-PEX
Cold Expansion System

THERMAL PROPERTIES

Working temperature range	68 °F to 194 °F
Operating Temperature Range	14 °F to 194 °F
Thermal conductivity	0.22 BTU/h/ft/°F
Coefficient of linear expansion	1.1"/10 °F

DIMENSIONS

Reference	Description	I.D.	O.D.	Wall thickness	Coil/Pack weight
16010217800	1/2"	0.485"	0.625"	0.070"	5.42 – 52.96 lbs
16010424700	3/4"	0.681"	0.875"	0.097"	10.25 – 100.22 lbs
16010531800	1"	0.875"	1.125"	0.125"	17.17 – 170.96 lbs
16010738800	1 ¼"	1.069"	1.375"	0.153"	24.8 – 284 lbs
16010845900	1 ½"	1.263"	1.625"	0.181"	34.3 – 343 lbs
16010960000	2"	1.653"	2.125"	0.236"	58.5 – 585 lbs

*Straight length of 10' and 20' are available.

STANDARDS

- ASTM F876
- ASTM F877
- ASTM F1960
- ASTM F2657
- NSF/ANSI 14
- NSF/ANSI 61
- CSA B137.5

APPLICATIONS

- Radiant floor heating
- Cooling systems
- Hot and cold water distributions
- Industrial facilities
- Ice and snow melting systems
- Surface heating/cooling (floor, wall and ceiling)

LISTINGS

- NSF 14
- NSF 61
- cNSFus_pw
- ICC-ES

Approved fitting system by ASTM F1960





Product information and Application use

PIPEX Pex-a tubing is the most appropriated method of distribution for hot/cold water and radiant heat. Its flexibility and ease of installation properties make this product a better option than copper. It has an oxygen diffusion barrier that meets German DIN 4726/9.

PHYSICAL PROPERTIES

Material	Crosslinked Polyethylene type 'a'
Density	>0.059 lb/ft ³
Crosslinking degree	≥70%

**COMPATIBLE WITH
PIPEX SYSTEMS**

PAND-PEX
Cold Expansion System

THERMAL PROPERTIES

Working temperature range	68 °F to 194 °F
Operating Temperature Range	14 °F to 194 °F
Thermal conductivity	0.22 BTU/h/ft/°F
Coefficient of linear expansion	1.1"/10 °F

DIMENSIONS

Reference	Description	I.D.	O.D.	Wall thickness	Coil/Pack weight
16020117810	3/8"	0.360"	0.500"	0.070"	4.96 - 45.63 lbs
16020217810	1/2"	0.485"	0.625"	0.070"	5.42 - 52.96 lbs
16030324700	5/8"	0.584"	0.750"	0.083"	7.44 - 75.98lbs
16020424710	3/4"	0.681"	0.875"	0.097"	10.25 - 100.22 lbs
16020531810	1"	0.875"	1.125"	0.125"	17.17 - 170.96 lbs
1602073881	1 ¼"	1.069"	1.375"	0.153"	24.8 - 284 lbs
16020845910	1 ½"	1.263"	1.625"	0.181"	34.3 - 343 lbs
16020960010	2"	1.653"	2.125"	0.236"	58.5 - 585 lbs

*Straight length of 10' and 20' are available.

STANDARDS

- ASTM F876
- ASTM F877
- ASTM F1960
- NSF/ANSI 14
- NSF/ANSI 61
- CSA B137.5

APPLICATIONS

- Radiant floor heating
- Cooling systems
- Hot and cold water distributions
- Industrial facilities
- Ice and snow melting systems
- Surface heating/cooling (floor, wall and ceiling)

LISTINGS

- NSF 14
- cNSFus-rfh
- ICC-ES

Approved fitting system by ASTM F1960



PE-Xb: Cross-linked polyethylene pipe



PE-Xb represents a cutting-edge technology for crafting pipes from cross-linked polyethylene, utilizing the cost-effective silane method. Not only does this innovative process enhance the durability of plastic pipes, but it also confers unique benefits, particularly in transporting chlorinated water.

PHYSICAL PROPERTIES

Material	Crosslinked Polyethylene type "b"
Density	$\geq 0.944 \text{ g/cm}^3$
Crosslinking degree	$\leq 65\%$
Roughness	0.007 mm

THERMAL PROPERTIES

Working temperature range according Standard: EN ISO 15875	20 °C to 90 °C
Operating Temperature Range	-10 °C to 90 °C
Heat reversal (120 °C, 1 hour)	$\leq 3\%$
Thermal conductivity	0.35 - 0.38 W / mK
Specific heat (23 °C)	2.3 KJ/kg*K
Lineal extension rate	0.026 mm/m*K

DIMENSIONS

Reference	Description (mm)	Tolerance (mm)	Thickness (mm)	Tolerance (mm)
15011218000	12 x 1.8	12.0 - 12.3	1.8	1.8 - 2.1
15011220000	12 x 2.0	12.0 - 12.3	2.0	2.0 - 2.3
15011618000	16 x 1.8	16.0 - 16.3	1.8	1.8 - 2.1
15011620000	16 x 2.0	16.0 - 16.3	2.0	2.0 - 2.3
15011622000	16 x 2.2	16.0 - 16.3	2.2	2.2 - 2.6
15012019000	20 x 1.9	20.0 - 20.3	1.9	1.9 - 2.2
15012020000	20 x 2.0	20.0 - 20.3	2.0	2.0 - 2.3
15012028000	20 x 2.8	20.0 - 20.3	2.8	2.8 - 3.2
15012523000	25 x 2.3	25.0 - 25.3	2.3	2.3 - 2.7
15012535000	25 x 3.5	25.0 - 25.3	3.5	3.5 - 4.0
15013529000	32 x 2.9	32.0 - 32.3	2.9	2.9 - 3.3
15013244000	32 x 4.4	32.0 - 32.3	4.4	4.4 - 5.0

Other dimensions and colours are available on request.
Multiple options are available for meters/coils. To consult.

DIMENSIONS OF FRANCE

Reference	Description (mm)	Tolerance (mm)	Thickness (mm)	Tolerance (mm)
15011211000	12 x 1.1	12.0 - 12.3	1.1	1.1 - 1.4
15011615000	16 x 1.5	16.0 - 16.3	1.5	1.5 - 1.8
15012019000	20 x 1.9	20.0 - 20.3	1.9	1.9 - 2.2
15012523000	25 x 2.3	25.0 - 25.3	2.3	2.3 - 2.7
15013229000	32 x 2.9	32.0 - 32.3	2.9	2.9 - 3.3

Other dimensions and colours are available on request.

**COMPATIBLE WITH
PIPEX SYSTEMS**

XPULLFITT

Sliding Sleeve System

PN6

STANDARD

- EN ISO 15875

CERTIFICATIONS

- AFNOR (France)
- CSTB (France)

APPLICATIONS

- Sanitary systems
- Hydronic radiant heating and cooling systems
- Central heating systems
- Turf conditioning systems
- Permafrost prevention system



PE-Xb with Oxygen Barrier – EVOH



PE-Xb pipes with EVOH oxygen barrier from Pipex are designed for underfloor heating systems. These cross-linked polyethylene pipes include a bonded EVOH layer, which minimizes oxygen permeability.

Thinking flexibly, we propose many options in pipe colors, and OEM customizations (color, printing, packaging,...), to offer our customers the best product and adjust it to their needs. We also propose 3 or 5-layer solutions with an Oxygen barrier, giving many options to each market.

PE-Xb technology is used to manufacture cross-linked polyethylene pipes, also used in heating systems due to their resistance to high temperatures and pressure.

PHYSICAL PROPERTIES

Material	Cross-linked polyethylene type "b"
Density	≥ 0.944 g/cm ³
Crosslinking degree	≥ 65%
Roughness	0.007 mm
O₂ permeability at 40 °C	≤ 0,32 g/m ² *d

**COMPATIBLE WITH
PIPEX SYSTEMS**

XPULLFITT

Sliding Sleeve System

PN6

XFLOOR

Underfloor Heating System

THERMAL PROPERTIES

Working temperature range according Standard: EN ISO 15875	20 °C to 90 °C
Operating Temperature Range	-10 °C to 90 °C
Heat reversal (120 °C, 1 hour)	≤ 3%
Thermal conductivity	0.35 - 0.38 W / m*K
Specific heat (23 °C)	2.3 KJ/kg*K
Linear expansion coefficient	0.026 mm/m*K

CERTIFICATIONS

- AFNOR (France)
- CSTB (France)

STANDARD

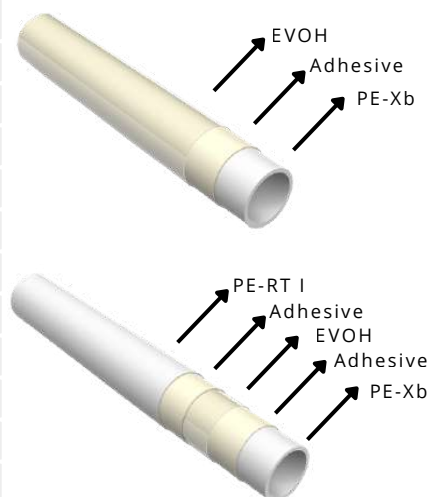
- Standard EN ISO 15875

DIMENSIONS

Reference		Description (mm)	Diameter tolerance (mm)	Thickness tolerance (mm)
3 layers	5 layers			
15031218000	15051218000	12 x 1.8	12.0 - 12.3	1.8 - 2.1
15031220000	15051220000	12 x 2.0	12.0 - 12.3	2.0 - 2.3
15031618000	15051618000	16 x 1.8	16.0 - 16.3	1.8 - 2.1
15031620000	15051620000	16 x 2.0	16.0 - 16.3	2.0 - 2.3
15031622000	15051622000	16 x 2.2	16.0 - 16.3	2.2 - 2.6
15032019000	15052019000	20 x 1.9	20.0 - 20.3	1.9 - 2.2
15032020000	15052020000	20 x 2.0	20.0 - 20.3	2.0 - 2.3
15032028000	15052028000	20 x 2.8	20.0 - 20.3	2.8 - 3.2
15032523000	15052523000	25 x 2.3	25.0 - 25.3	2.3 - 2.7
15032535000	15052535000	25 x 3.5	25.0 - 25.3	3.5 - 4.0
15033229000	15053229000	32 x 2.9	32.0 - 32.3	2.9 - 3.3
15033244000	15053244000	32 x 4.4	32.0 - 32.3	4.4 - 5.0

Other dimensions and colours are available on request.
Multiple options are available for meters/coils. To consult.

3 - 5 layers



APPLICATIONS

- Underfloor heating and cooling
- Cooling systems
- Hot and cold water distribution
- Industrial facilities
- Snow removal and surface de-icing systems
- Surface heating/cooling (floor, wall and ceiling)

PE-Xb BAO 3 layers: Cross-linked polyethylene pipe



PHYSICAL PROPERTIES

Material	Cross-linked polyethylene type "b"
Density	$\geq 0.94 \text{ g/cm}^3$
Crosslinking grade	$\geq 65\%$
O₂ permeability at 40 °C	$\leq 0,32 \text{ g/m}^2\cdot\text{d}$
Roughness	0.007 mm

**COMPATIBLE WITH
PIPEX SYSTEMS**

XPULLFITT

Sliding Sleeve System

PN6

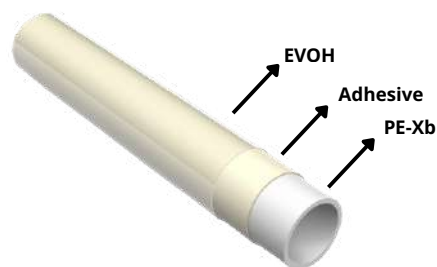
XFLOOR

Underfloor Heating System

THERMAL PROPERTIES

Working temperature range according Standard: EN ISO 15875	20 °C to 90 °C
Operating Temperature Range	-10 °C to 90 °C
Heat reversal (120 °C, 1 hour)	$\leq 3\%$
Thermal conductivity	0.35-0.38 W/m*K
Specific heat (23 °C)	2.3 kJ/kg*K
Linear expansion coefficient	0.026 mm/m*K

Maximum working pressure at the same temperature for 50 years	Temperature	Max. Pressure
	20°C	15 bar
	40°C	10 bar
	60°C	8 bar
	70°C	7 bar



DIMENSIONS

Reference	Description (mm)	Diameter tolerance (mm)	Thickness tolerance (mm)	Weight (kg/m)	Volume (l/m)	Minimum bending radius (mm)
15031211000	12 x 1.1	12.0 - 12.3	1.1 - 1.4	0.036	0.075	60
15031615000	16 x 1.5	16.0 - 16.3	1.5 - 1.8	0.065	0.133	80
15032019000	20 x 1.9	20.0 - 20.3	1.9 - 2.2	0.102	0.206	100
15032523000	25 x 2.3	25.0 - 25.3	2.3 - 2.7	0.155	0.327	125
15033229000	32 x 2.9	32.0 - 32.3	2.9 - 3.3	0.250	0.539	160

Other dimensions and colours are available under request.

CERTIFICATIONS

- AFNOR (France)
- CSTB (France)

STANDARD

- EN ISO 15875

APPLICATIONS

- Underfloor heating and cooling
- Cooling systems
- Hot and cold water distribution
- Industrial facilities
- Ice and snow removal systems on surfaces
- Surface heating/cooling (floor, wall and ceiling)



PE-RT: Polyethylene with high temperature resistance



PE-RT (*Polyethylene of Raised Temperature Resistance*) pipe is a type of plastic piping widely used in various applications, primarily in heating and plumbing systems. Is an excellent choice for heating and plumbing systems, combining durability, flexibility, and high-temperature resistance, making it an efficient and long-lasting solution for various applications.

PHYSICAL PROPERTIES

Material	Polyethylene with high temperature resistance (PE-RT II)
Density	$\geq 0.941 \text{ g/cm}^3$
Roughness	0.007 mm

**COMPATIBLE WITH
PIPEX SYSTEMS**

XPULLFIT

Sliding Sleeve System

PN6

NEXUS

Push-Fit System

THERMAL PROPERTIES

Minimum working temperature	-10 °C
Maximum working temperature	90 °C
Malfunction maximum temperature	100 °C
Heat reversion (120 °C, 1 hour)	$\leq 2.0 \%$
Thermal conductivity	0.40 W / m*K
Specific heat (23 °C)	1.8 kJ/kg*K
Lineal extension coefficient	0.026 mm/m *K

STANDARD

- EN ISO 22391

DIMENSIONS

Reference	Description (mm)	Diameter tolerance (mm)	Thickness tolerance (mm)	Weight (kg/m)	Volume (l/m)	Min. Curve Radius (mm)
12010810000	8 x 1.0	8 - 8.30	1.0 - 1.30	0.021	0.028	40
12011012500	10 x 1.25	10 - 10.30	1.30 - 1.60	0.032	0.044	50
12011214000	12 x 1.4	12 - 12.30	1.40 - 1.70	0.044	0.066	60
12011220000	12 x 2.0	12 - 12.30	2.0 - 2.30	0.059	0.050	60
12011420000	14 x 2.0	14 - 14.30	2.0 - 2.30	0.071	0.079	70
12011515000	15 x 1.5	15 - 15.30	1.50 - 1.80	0.060	0.113	75
12011618000	16 x 1.8	16 - 16.30	1.80 - 2.10	0.076	0.121	80
12011620000	16 x 2.0	16 - 16.30	2.0 - 2.30	0.083	0.113	80
12011720000	17 x 2.0	17 - 17.30	2.0 - 2.30	0.089	0.133	85
12011820000	18 x 2.0	18 - 18.30	2.0 - 2.30	0.095	0.154	90
12012019000	20 x 1.9	20 - 20.30	1.90 - 2.20	0.102	0.206	100
12012020000	20 x 2.0	20 - 20.30	2.0 - 2.30	0.106	0.201	100
12012523000	25 x 2.3	25 - 25.30	2.30 - 2.60	0.154	0.327	125
12013229000	32 x 2.9	32 - 32.30	2.90 - 3.20	0.249	0.539	160

Other dimensions and colours are available under request.
Multiple options are available for meters/coils. To consult.

APPLICATIONS

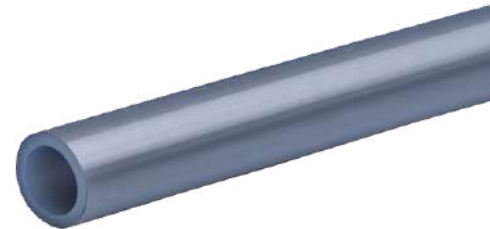
- Cooling systems
- Industrial facilities
- Ice and snow removal systems on surfaces
- Lawn conditioning

CERTIFICATIONS

- AENOR (Spain)
- SKZ (Germany)
- DIN CERTCO (Germany)
- IIP (Italy)
- KOMO (Netherlands)



PE-RT with Oxygen Barrier – EVOH



PE-RT Type II pipe of Pipex is a polyethylene (PE) resin in which the molecular architecture has been designed such that a sufficient number of tie chains are incorporated to allow operation at elevated or raised temperatures (RT). Tie chains "tie" together the crystalline structures in the polymer, resulting in improved properties such as elevated temperature strength and performance, chemical resistance and resistance to slow crack growth.

PHYSICAL PROPERTIES

Material	High temperature resistance polyethylene (PE-RT II)
Density	≥ 0.941 g/cm ³
O ₂ Permeability at 40 °C	≤ 0,32 g/m ² *d
Roughness	0.007 mm

THERMAL PROPERTIES

Minimum working temperature	-10 °C
Maximum working temperature	90 °C
Malfunction maximum temperature	100 °C
Heat reversion (120 °C, 1 hour)	≤ 2.0 %
Thermal conductivity	0.40 W / m*K
Specific heat (23 °C)	1.8 kJ/kg*K
Lineal extension coefficient	0.026 mm/m *K

**COMPATIBLE WITH
PIPEX SYSTEMS**

XPULLFITT

Sliding Sleeve System

PN6

NEXUS

Push-Fit System

5 layers

XFLOOR

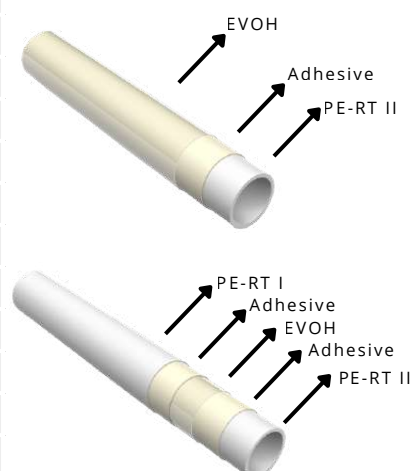
Underfloor Heating System

DIMENSIONS

Reference		Description (mm)	Diameter Tolerance (mm)	Thickness Tolerance (mm)
3 layers	5 layers			
12030810000	12050810000	08 x 1.0	08 - 08.30	1.0 - 1.30
12031012500	12051012500	10 x 1.25	10.0 - 10.30	1.25 - 1.55
12031212000	12051212000	12 x 1.2	12.0 - 12.30	1.2 - 1.5
12031420000	12051420000	14 x 2.0	14.0 - 14.30	2.0 - 2.3
12031618000	12051618000	16 x 1.8	16.0 - 16.30	1.8 - 2.1
12031620000	12051620000	16 x 2.0	16.0 - 16.30	2.0 - 2.3
12031720000	12051720000	17 x 2.0	17.0 - 17.30	2.0 - 2.3
12031820000	12051820000	18 x 2.0	18.0 - 18.30	2.0 - 2.3
12032020000	12052020000	20 x 2.0	20.0 - 20.30	2.0 - 2.3
12032523000	12052523000	25 x 2.3	25.0 - 25.30	2.3 - 2.6
12033229000	12053229000	32 x 2.9	32.0 - 32.30	2.9 - 3.3

Other dimensions and colours are available under request.
Multiple options are available for meters/coils. To consult.

3 - 5 layers



CERTIFICATIONS

- AENOR (Spain)
- SKZ (Germany)
- DIN CERTCO (Germany)
- IIP (Italy)
- KOMO (Netherlands)

STANDARD

- EN ISO 22391

APPLICATIONS

- Underfloor heating and heating
- Cooling systems
- Hot and cold water distribution
- Industrial facilities
- Ice and snow removal systems on surfaces
- Lawn conditioning

Klett System Hook & Loop



The Klett hook & loop system is designed for radiant heating/cooling floor systems. This system makes pipe installation quick and easy, without the need for additional tools.

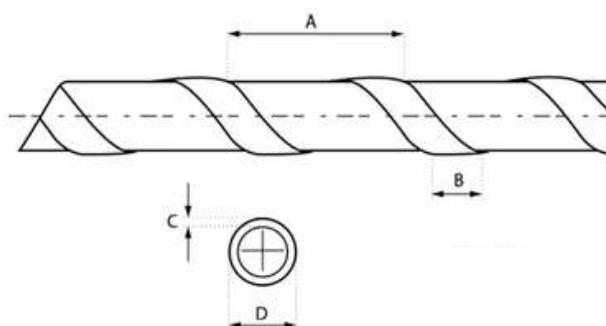
The pipe is covered with a self-fastening tape with spiral micro-cones. This tape adheres to the panel when it comes into contact with the panel's fiber coating. It provides greater ease and speed of installation, allowing the installer to work independently and easily modify the placement of circuits, as the pipe can be detached and reattached to the panel multiple times without damaging the panel's insulating function.

The Klett self-fastening system is compatible with PE-Xa EVOH, PE-Xb EVOH, PE-RT EVOH, PE-RT/AL/PE-RT, and PE-X/AL/PE-X pipes. Available in white; other colors are available upon request.

**COMPATIBLE WITH
PIPEX SYSTEMS**



Underfloor Heating System



PHYSICAL PROPERTIES

Material	Polypropylene
Width	13 ± 1 mm
Adhesion strength	4-5N*
Friction resistance	40-50N*

(*) These values are the result obtained in internal tests, they may vary depending on the surface used.

Dimensions	
A	47 – 70 mm
C	0.64 ± 0.06 mm
D	According to pipe diameter

DIMENSIONS

PE-Xa EVOH		16 x 1.5mm	16 x 1.8mm	16 x 2.0mm	17 x 2.0mm	18 x 2.0mm	20 x 2.0mm
PE-Xb EVOH		16 x 1.5mm	16 x 1.8mm	16 x 2.0mm			20 x 2.0mm
PE-RT EVOH	15 x 1.5mm		16 x 1.8mm	16 x 2.0mm	17 x 2.0mm	18 x 2.0mm	20 x 2.0mm
PE-RT/AL/PE-RT				16 x 2.0mm			20 x 2.0mm
DUOFLEX				16 x 2.0mm			

Other dimensions and colours are available on request.

KEY BENEFITS

- High-performance system, saving time during installation.
- Quick to install by a single person, requiring only slight pressure to secure the pipe against the panel.
- No extra tools are needed for installation.
- Easy to redesign circuits.
- High-performance mechanical hook-and-loop system.
- Reliable solution that does not damage the insulating panel.



PE-RT/AL/PE-RT Multilayer



PE-RT/AL/PE-RT pipes of Pipex combine the strength of aluminium reinforcement with the versatility of polyethylene, offering unparalleled performance for underfloor heating, radiator heating, and drinking water supply systems. Innovative co-extrusion design ensures durability, flexibility, and resistance to high temperatures and chemical corrosion.

PHYSICAL PROPERTIES

Material	High temperature resistant polyethylene (PE-RT)
Density	≥ 0.941 g/cm ³
O₂ permeability at 40°C	< 0.0010 g/m ³ *d
Roughness	0.007 mm
Tensile resistant adhesive layer	≥ 25 N/cm

THERMAL PROPERTIES

Working temperature range according Standard: UNE-EN ISO 21003	20 °C to 90 °C
Operating Temperature Range	-10 °C to 90 °C
Thermal conductivity	0.43 W/m*K
Coefficient of thermal expansion	0.025 mm/m*K
Oxidation Induction Time (OIT)	≥ 30 min
Coefficient of thermal expansion	0.025 mm/m*K

**COMPATIBLE WITH
PIPEX SYSTEMS**

XPULLFITT

Sliding Sleeve System

PN6

XFittPress

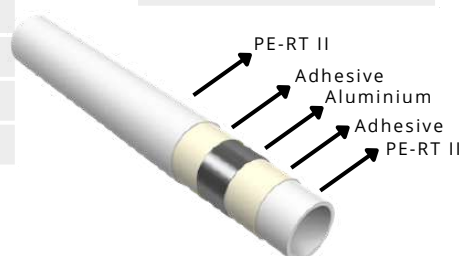
PressFittings System

NEXUS

Push-Fit System

XFLOOR

Underfloor Heating System



DIMENSIONS

Reference	Description (mm)	Diameter tolerance (mm)	Thickness tolerance (mm)	Capacity (l/m)	Weight (kg/m)	Minimum manual curvature radius (mm)	Minimum radius of curvature with internal spring (mm)
13021620010	16 x 2.0	16 - 16.30	1.90 - 2.30	0.113	0.106	80	60
13021820010	18 x 2.0	16 - 16.30	1.90 - 2.30	0.154	0.121	90	70
13022020010	20 x 2.0	20 - 20.30	1.90 - 2.30	0.201	0.135	100	80
13022022510	20 x 2.25	20 - 20.30	2.25 - 2.65	0.189	0.151	100	95
13022525010	25 x 2.5	25 - 25.3	2.30 - 2.80	0.314	0.214	125	100
13022630010	26 x 3.0	26 - 26.30	2.80 - 3.40	0.314	0.253	130	100
13023230010	32 x 3.0	32 - 32.30	2.80 - 3.40	0.531	0.320	160	130
13024040010	40 x 4.0	40 - 40.40	3.80 - 4.40	0.804	0.529	----	----
13025045010	50 x 4.5	50 - 50.50	4.30 - 5.0	1.320	0.753	----	----
13026360010	63 x 6.0	63 - 63.60	5.70 - 6.50	1.810	1.191	----	----

Other dimensions and colours are available under request.
Multiple options are available for meters/coils. To consult.

APPLICATIONS

- Radiant floor heating
- Cooling systems
- Hot and cold water distributions
- Industrial facilities
- Ice and snow melting systems
- Surface heating/cooling (floor, wall and ceiling)

CERTIFICATIONS

- AENOR (Spain)
- AFNOR (France)
- SKZ (Germany)
- WRAS (UK)
- KIWA (Portugal)
- CSTB (France)

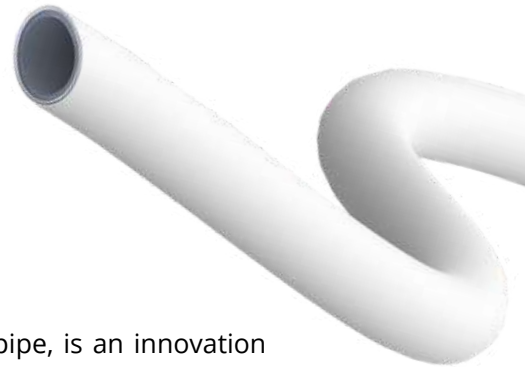
STANDARD

- UNE-EN ISO 21003



DUOFLEX

PE-RT/AL/PE-RT Multilayer



The new **Pipex Duoflex** flexible and metal multilayer (PE-RT/AL/PE-RT) pipe, is an innovation tailored for heating installers.

This pipe's exceptional qualities arise from its unique blend of temperature-resistant polyethylene and an aluminium layer.

This combination grants it extraordinary flexibility ensuring both durability and effortless installation.

PHYSICAL PROPERTIES

Material	High-temperature resistance polyethylene (PE-RT)
Density	$\geq 0.938 \text{ g/cm}^3$
Roughness	0.007 mm
Oxidation induction time (OIT)	$\geq 30 \text{ min}$
Weight	100 g/m
Volume	0.113 l/m

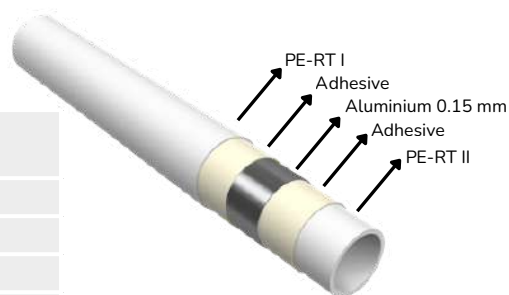
COMPATIBLE WITH
PIPEX SYSTEMS



Underfloor Heating System

THERMAL PROPERTIES

Working temperature range according Standard: UNE-EN ISO 21003	20 °C to 90 °C
Operating Temperature Range	-10 °C to 90 °C
Heat reversal (120 °C, 1 hour)	$\leq 3.0 \%$
Thermal conductivity	0.43 W/m*K
Coefficient of thermal expansion	0.023 mm/m*K



DIMENSIONS

Reference	Description (mm)	Aluminum thickness (mm)	Diameter (mm)	Tolerance (mm)	Thickness (mm)	Tolerance (mm)
14012162000	16 x 2	0.15	16	+0.3 / -0	2	+0.3 / -0

APPLICATIONS

- Underfloor heating
- Cooling systems
- Industrial facilities
- Ice and snow deicing and melting systems
- Surface heating/cooling (floor, wall and ceiling)

STANDARD

- UNE-EN ISO 21003



PE-X/AL/PE-X Multilayer



PEX/AL/PEX piping is a coextruded, crosslinked polyethylene composite pressure pipe reinforced with a welded aluminium tube between the inner and outer layers. The inner and outer crosslinked polyethylene layers are bonded to the aluminium tube with a melt adhesive.

PHYSICAL PROPERTIES

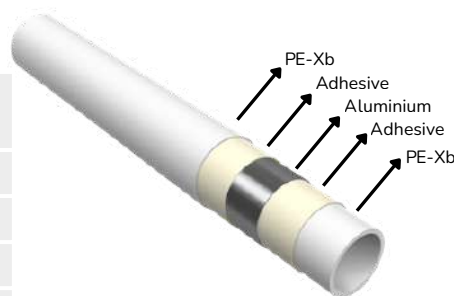
Material	Cross-linked polyethylene (PE-X)
Density	$\geq 0.948 \text{ g/cm}^3$
O₂ permeability at 40 °C	$< 0.0010 \text{ g/m}^3$
Roughness	0.007 mm
Oxidation Induction Time (OIT)	$\geq 30 \text{ min}$

**COMPATIBLE WITH
PIPEX SYSTEMS**

FittPress®
PressFittings System

THERMAL PROPERTIES

Working temperature range according Standard: EN ISO 21003	20 °C to 90 °C
Operating Temperature Range	-10 °C to 90 °C
Heat reversal (120 °C, 1 hour)	$\leq 3.0 \%$
Thermal conductivity	0.43 W/m*K
Thermal expansion coefficient	0.025 mm/m*K



DIMENSIONS

Reference	Dimensions (mm)	Tolerance Diameter (mm)	Thickness Diameter (mm)	Capacity (l/m)
13041620010	16x2	16.0 – 16.3	1.9 – 2.35	0.113
13041820010	18x2	18.0 – 18.3	1.9 – 2.35	0.154
13042020010	20x2	20.0 – 20.3	1.9 – 2.35	0.201
13042022510	20x2.25	20.0 – 20.3	2.05 – 2.65	0.189
13042525010	25x2.5	25.0 – 25.3	2.3 – 2.9	0.314
13042630010	26x3	26.0 – 26.3	2.8 – 3.4	0.314
13043230010	32x3	32.0 – 32.3	2.8 – 3.4	0.531
13044040010	40x4	40.0 – 40.4	3.8 – 4.4	0.804
13045045010	50x4.5	50.0 – 50.5	4.3 – 5.0	1.320
13046360010	63x6	63.0 – 63.6	5.7 – 6.5	1.810

Other dimensions and colours are available under request.
Multiple options are available for meters/coils. To consult.

APPLICATIONS

- Underfloor heating
- Cooling systems
- Hot and cold water distribution
- Industrial facilities
- Snow and ice removal systems on surfaces
- Surface heating / cooling (floor, wall and ceiling)

STANDARD

- EN ISO 21003



Classification according to service conditions for pipes

Class and Application	Design Temperature TD	TD Time (years)	Tmax	Tmax Time (years)	Tmal	Tmal Time (hours)
Class 1 Hot water supply (60°C)	60 °C	49	80	1	95	100
Class 2 Hot water supply (70°C)	70 °C	49	80	1	95	100
Class 4 Underfloor heating and low-temperature radiators	20°C followed by 40°C followed by 60°C	2.5 followed by 20 followed by 25	70	2.5	100	100
Class 5 High-temperature radiators	20°C followed by 60°C followed by 80°C	14 followed by 25 followed by 10	90	1	100	100

TD: Design Temperature / Tmax: Maximum Temperature / Tmal: Malfunction Temperature

(*) If these conditions are exceeded, the warranty will be voided.

Each country can choose between class 1 or 2 according to its national regulations.

When more than one design temperature appears for any class, times should be added (e.g., the temperature profile for 50 years for class 5 is: 14 years at 20 °C followed by 25 years at 60 °C, 10 years at 80 °C, 1 year at 90 °C, and 100 h at 100 °C)

These standards do not apply to TD, Tmax and Tmal values higher than those indicated in the table.

According to EN ISO 15875, all heating installations must use only water or suitably treated water as the circulating fluid, ensuring compatibility with the piping system.





PIPE PROTECTION



PIPEX[®]
THINK FLEXIBLE

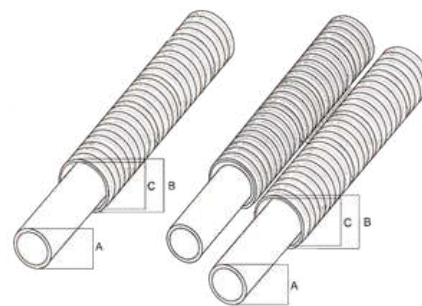
Corrugated pipe



We use high-density polyethylene drainage pipes due to their exceptional durability, especially when buried under heavy materials such as soil. These pipes are designed to withstand the most demanding conditions, ensuring reliable performance and a long service life. Compatibility with all our pipes.

PHYSICAL PROPERTIES

Material	High density polyethylene
Compressive stress	≥ 450 N
Impact resistance	15 J
Working temperature range	-10 °C to 100 °C
Chemical resistance	Resistant to organic acids and solvents
Mechanical properties	Elasticity, flexibility and abrasion resistance



DUO

PE-X diameter (mm)	B (mm)	C (mm)	Tolerance (mm)
12	22	16	± 0.5
16	26	20	± 0.5
18	24	32	± 0.5
20	32	24	± 0.5
25	40	30	± 0.5
26	30	40	± 0.5
32	50	40	± 0.5
DUO			
12	22	16	± 0.5
16	26	20	± 0.5

STANDARDS

- EN 50086
- EN 60423
- EN 61386

Diameter pipe (mm)	(*) Colours	m/coil	Inner diameter (mm)	Width (mm)	Outer Diameter (mm)	Coils / Pallet	Pallet / Truck
12	Blue / Red	50	280	210	550	18	66
12	Blue / Red	100	280	220	700	7	66
16	Blue / Red	50	280	210	550	18	66
16	Blue / Red	100	280	220	700	7	66
18	Blue / Red	50	300	130	750	16	48
20	Blue / Red	50	300	130	740	8	66
25	Blue / Red	50	280	200	750	6	66
26	Blue / Red	50	270	180	800	13	48
32	Blue / Red	50	340	380	750	6	66
DUO							
12	Blue / Red	50	250	310	600	8	66
12	Blue / Red	100	250	300	700	5	66
16	Blue / Red	50	280	220	780	7	66
16	Blue / Red	100	280	220	780	7	66

*Other dimensions and colours are available on request.

Slotted Corrugated Pipe



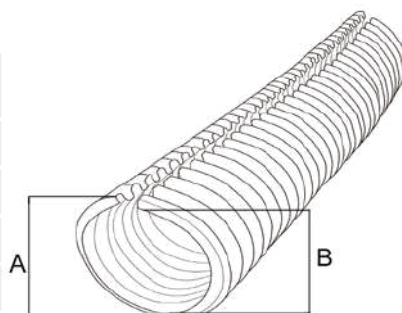
Corrugated pipe with longitudinal cut for the fast and effective installation of pipes.

PHYSICAL PROPERTIES

Material	High density polyethylene
Compressive strength	≥ 450 N
Impact resistance	15 J
Working temperature range	-10 °C to 100 °C
Chemical resistance	Resistant to acids and organic solvents
Mechanical properties	Elasticity, flexibility and resistance to abrasion



Inner tube diameter (mm)	A (mm)	B (mm)	Tolerance (mm)
10 – 12 – 14	22	16	± 0.5
15 – 16 – 17 – 18	26	20	± 0.5
20 – 22	32	24	± 0.5
25	40	30	± 0.5



According to CSTB

PACKING TABLE

Diameter (mm)	Format	m/coil	Package	Unit /Pallet	Pallet/ Truck	Unit /Truck
22	Coil	50	Pallet box	18	66	1,188
26	Bars	0.4	Box 50 units	48	33	79,200
26	Coil	50	Pallet box	14	66	924
32	Coil	50	Pallet box	8	66	528
40	Coil	50	Pallet box	6	66	396

Available in colours: red, blue, grey, black, natural, or another colour on request.

BENEFITS

- Fast and ready to installation
- Reduces operation time
- Cost reduction
- Protection of the inner pipe against light damage, chemical products and material damage.

STANDARDS

- EN 50086
- EN 60423
- EN 61386

Insulated pipe



The insulated pipe is made of polyethylene (PE) foam, complying with UNE-EN ISO 14313 regulations. This foam provides excellent protection and exceptional resistance against abrasion. In addition, it is light, flexible, and has a high thermal insulation capacity, which makes it ideal for various applications. It is compatible with: **PE-Xa, PE-Xb, PE-RT, multilayer PE-RT/AL/PE-RT and PE-X/AL/PE-X pipes, and corrugated pipes (pipe in pipe)**, guaranteeing efficient and durable installation in all types of piping systems.



Foam thickness available in 6, 9 and 10mm

PHYSICAL PROPERTIES PE FOAM

Material	PE foam
Density	30 kg/m ³
Working temperature range	From -45 °C to 105 °C
Fire reaction (EN 13501:2009)	BL-s1, d0
Steam permeability (UNI EN 13469:2004)	$\mu > 5000$
Thermal conductivity coefficient (EN 12667:2001)	$\lambda=0.039$ W/m*K (40 °C) $\lambda=0.035$ W/m*K (10 °C) $\lambda=0.034$ W/m*K (0 °C)

Pipe diameters	Recommended foam thickness
From 12 to 20 mm	6 mm
From 25 mm	9-10 mm

STANDARDS

- UNE-EN ISO 14313

COLOURS

- Red (hot)
- Blue (cold)





PIPEX SYSTEMS



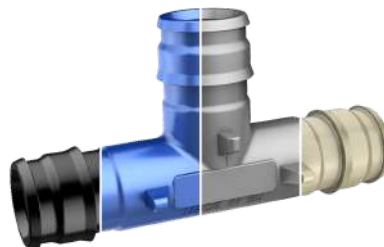
PIPEX
THINK FLEXIBLE

X PAND-PEX™
COLD EXPANSION SLEEVE SYSTEM
FOR PE-Xa PIPES



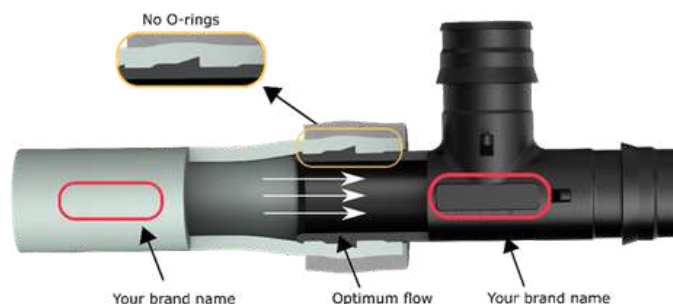


XPAND-PEX, is our new cold expansion sleeve system. It is a method of connecting pipes and fittings widely used in plumbing and heating systems. It offers an alternative to traditional welding or press fitting methods. It is a system that takes advantage of the great elasticity of PE-Xa pipe, and the shape memory of plastic materials. It is a very widely used system due to its ease of installation, and reliability, and suitable for a wide range of applications, including potable water supply, heating, and cooling systems.



Advantage of Xpand-Pex

- Easy to assemble and quick to install.
- Higher flow rate, lower pressure drop.
- Secure sealing system, no O-ring needed.
- No need to calibrate or bevel the end of the pipe.
- Secure and reliable system.
- PPSU fittings are better thermal insulators.
- Absence of scale and corrosion resistance.
- Fittings safely and reliably absorb variations in the size of plastic pipes.
- Guarantee of up to 10 years on the complete system (Pipes + fittings)
- Suitable for plumbing, heating and air conditioning installations, and underfloor heating/cooling systems.



Certified system



001/007682



System components of Xpand-Pex

PE-Xa / PE-Xa EVOH pipe

Dimensions

16x1.8	16x2.0	16x2.2	20x1.9	20x2.0	20x2.8	25x2.3	25x3.5	32x2.9	32x4.4
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PE-Xa → See technical data on page: 7

PE-Xa EVOH → See technical data on page: 8

Sleeve of PE-Xa with stopper

Manufactured with cross-linked polyethylene (PE-Xa) with a stop system to facilitate assembly work. Being manufactured in PE-Xa, they allow you to take advantage of all the technical advantages of this material, such as flexibility, durability, and thermal memory, which guarantee the best possible performance for the expansion system. The expansion sleeve are available in 3 formats (with identification in red, blue, and natural), to easily identify the system in pipe networks.

Compatible with PE-Xa pipes of the following dimensions

External diameter (mm)	Thickness (mm)				
	Serie 4	Serie 5	Serie 4.5	Serie 3.5	Serie 3.2
16	1.8			2.0	2.2
20		1.9	2.0		2.8
25		2.3			3.5
32		2.9			4.4



Fittings

The **Xpand-Pex** system uses polyphenylsulfone (PPSU) for the manufacturing of the plastic fitting bodies and the highest quality European brass (CW617N) for the threaded joints, which complies with the health legislation of the most demanding countries of the European Union.

Visible joints that offer peace of mind, ensuring a correct joint. The strength of the joint is greater than the resistance of the pipe.

The fittings accessories are manufactured according to the UNE-EN ISO 15875 standard, the reference standard for plastic piping systems for hot and cold water installations (PE-X).

Benefits of PPSU fittings

The PPSU version uses a high-performance material designed specifically for use in potable water installations:

- **Minimum internal roughness:** this results in lower pressure losses compared to brass fittings.
- **Outstanding chemical resistance:** the material is immune to the effect of chlorine in water, avoiding galvanic corrosion and oxidation problems. In addition, its composition makes it compatible with a wide range of construction materials.
- **Lightweight:** PPSU fittings are considerably lighter than their brass equivalents.
- **Exceptional impact resistance:** These accessories are robust and durable, able to withstand strong impacts without fracturing.
- **High thermal tolerance:** the material can resist temperatures of up to 134°C without compromising its integrity.
- **Low noise level:** The PPSU material prevents noise produced by water circulation, due to its low roughness coefficient, cushioning water hammer between 2 and 3 times compared to traditional copper or brass systems.

Product range



PE-Xa PIPE		
Reference	Diameter (mm)	Lenghts (m)
11011618000	16 x 1.8	50/100/200/500/600
11011620000	16 x 2.0	50/100/200/500/600
11011622000	16 x 2.2	50/100/200/500/600
11012019000	20 x 1.9	50/100/200/500/600
11012020000	20 x 2.0	50/100/200/500/600
11012028000	20 x 2.8	50/100/200/500/600
11012523000	25 x 2.3	50/100
11012535000	25 x 3.5	50/100
11013229000	32 x 2.9	50/100
11013244000	32 x 4.4	50/100



PE-Xa EVOH PIPE - 3 LAYERS		
Reference	Diameter (mm)	Lenghts (m)
11031618000	16 x 1.8	50/100/200/500/600
11031620000	16 x 2.0	50/100/200/500/600
11031622000	16 x 2.2	50/100/200/500/600
11032019000	20 x 1.9	50/100/200/500/600
11032020000	20 x 2.0	50/100/200/500/600
11032028000	20 x 2.8	50/100/200/500/600
11032523000	25 x 2.3	50/100
11032535000	25 x 3.5	50/100
11033229000	32 x 2.9	50/100
11033244000	32 x 4.4	50/100



PE-Xa EVOH PIPE - 5 LAYERS		
Reference	Diameter (mm)	Lenghts (m)
11051618000	16 x 1.8	50/100/200/500/600
11051620000	16 x 2.0	50/100/200/500/600
11051622000	16 x 2.2	50/100/200/500/600
11052019000	20 x 1.9	50/100/200/500/600
11052020000	20 x 2.0	50/100/200/500/600
11052028000	20 x 2.8	50/100/200/500/600
11052523000	25 x 2.3	50/100
11052535000	25 x 3.5	50/100
11053229000	32 x 2.9	50/100
11053244000	32 x 4.4	50/100

Product range



PE-Xa SLEEVE WITH STOPPER			
Reference	Diameter (mm)	Units/Bags	Units/Box
C500RP160000	16 Red	50	4,000
C500RP200000	20 Red	40	2,000
C500RP250000	25 Red	25	1,000
C500RP320000	32 Red	20	500
C500BP160000	16 Blue	50	4,000
C500BP200000	20 Blue	40	2,000
C500BP250000	25 Blue	25	1,000
C500BP320000	32 Blue	20	500
C500NP160000	16 Natural	50	4,000
C500NP200000	20 Natural	40	2,000
C500NP250000	25 Natural	25	1,000
C500NP320000	32 Natural	20	500



EQUAL COUPLING - PPSU			
Reference	Diameter (mm)	Units/Small box	Units/Big box
C0270P160016	16 - 16	25	550
C0270P200020	20 - 20	25	200
C0270P250025	25 - 25	15	120
C0270P320032	32 - 32	10	80



REDUCING COUPLING - PPSU			
Reference	Diameter (mm)	Units/Small box	Units/Big box
C0243P200016	20-16	25	200
C0243P250020	25-20	15	120
C0243P320025	32-25	8	64



90° ELBOW - PPSU			
Reference	Diameter (mm)	Units/Small box	Units/Big box
C0090P160016	16 - 16	25	400
C0090P200020	20 - 20	20	160
C0090P250025	25 - 25	10	80
C0090P320032	32 - 32	6	48

Product range



EQUAL TEE - PPSU			
Reference	Diameter (mm)	Units/Small box	Units/Big box
C0130P161616	16 - 16 - 16	20	280
C0130P202020	20 - 20 - 20	15	120
C0130P252525	25 - 25 - 25	8	64
C0130P323232	32 - 32 - 32	3	24



REDUCING TEE - PPSU			
Reference	Diameter (mm) (A - B - C)	Units/Small box	Units/Big box
C130RP201616	20-16-16	15	120
C130RP201620	20-16-20	15	120
C130RP202016	20-20-16	15	120
C130RP251625	25-16-25	10	80
C130RP252020	25-20-20	10	80
C130RP252025	25-20-25	8	64
C130RP252520	25-25-20	8	64
C130RP322532	32-25-32	3	24



MALE CONNECTOR - BRASS			
Reference	Diameter (mm)	Units/Small box	Units/Big box
C243GB1600R2	16 - 1/2"	25	200
C243GB2000R2	20 - 1/2"	24	192
C243GB2000R3	20 - 3/4"	20	160
C243GB2500R3	25 - 3/4"	18	144
C243GB2500R4	25 - 1"	12	96
C243GB3200R4	32 - 1"	10	80



FEMALE CONNECTOR - BRASS			
Reference	Diameter (mm)	Units/Small box	Units/Big box
C270GB1600R2	16 - 1/2"	25	200
C270GB2000R2	20 - 1/2"	20	160
C270GB2000R3	20 - 3/4"	15	120
C270GB2500R3	25 - 3/4"	15	120
C270GB2500R4	25 - 1"	12	96
C270GB3200R4	32 - 1"	6	48

Product range



FEMALE ADAPTER WITH SWIVEL NUT - BRASS

Reference	Diameter (mm)	Units/Small box	Units/Big box
C359GB1600R2	16 - 1/2"	24	192
C359GB2000R2	20 - 1/2"	18	144
C359GB2500R3	25 - 3/4"	15	120
C359GB3200R4	32 - 1"	8	64



ADAPTER FOR COPPER - BRASS

Reference	Diameter (mm)	Units/Small box	Units/Big box
C873PB160015	16 PEX - 15 Copper	25	200
C873PB200018	20 PEX - 18 Copper	15	120



MALE ELBOW - BRASS

Reference	Diameter (mm)	Units/Small box	Units/Big box
C092GB1600R2	16 - 1/2"	20	160
C092GB2000R2	20 - 1/2"	18	144
C092GB2500R3	25 - 3/4"	8	64
C092GB2500R4	25 - 1"	6	48



FEMALE ELBOW - BRASS

Reference	Diameter (mm)	Units/Small box	Units/Big box
C090GB1600R2	16 - 1/2"	18	144
C090GB2000R2	20 - 1/2"	15	120
C090GB2500R3	25 - 3/4"	10	80
C090GB3200R4	32 - 1"	5	40



FEMALE ELBOW WITH FIXING BASE - BRASS

Reference	Diameter (mm)	Units/Small box	Units/Big box
C473GB1600R2	16 - 1/2"	12	96
C473GB2000R2	20 - 1/2"	10	80
C473GB2500R3	25 - 3/4"	6	48

Product range



HIGH ELBOW WITH FIXING BASE - BRASS			
Reference	Diameter (mm)	Units/Small box	Units/Big box
C471GB1600R2	16 - 1/2"	10	80
C471GB2000R2	20 - 1/2"	10	80



FEMALE ELBOW - BRASS			
Reference	Diameter (mm)	Units/Small box	Units/Big box
C096GB1600R2	16 - 1/2"	18	144
C096GB2000R2	20 - 1/2"	12	96
C096GB2000R3	20 - 3/4"	12	96
C096GB2500R3	25 - 3/4"	8	64



FEMALE TEE - BRASS			
Reference	Diameter (mm)	Units/Small box	Units/Big box
C130GB16R216	16 - 1/2" - 16	12	96
C130GB20R220	20 - 1/2" - 20	10	80
C130GB25R325	25 - 3/4" - 25	5	40
C130GB32R432	32 - 1" - 32	3	24

Tools



SET BATTERY EXPANDING TOOL - HEADS - 2 BATTERIES - CHARGER - SUITCASE			
Reference	Diameter (mm)	Units/Bag	Units/Box
T23031000000	16-20-25-32	1	-



BATTERY			
Reference	Description	Units/Bag	Units/Box
T31055000000	18V Li-ion 2.0 Ah	1	-



BATTERY CHARGER			
Reference	Description	Units/Bag	Units/Box
T31056000000	AC 100V-240V 50-60 Hz	1	-

Tools



ROTATING EXPANSION HEAD FOR BATTERY-POWERED EXPANDER TOOL

Reference	Diameter (mm)	Units/Bag	Units/Box
T23033160000	16 x 1.8 - 2.2	1	-
T23033200000	20 x 1.9 - 2.8	1	-
T23033250000	25 x 2.3 - 3.5	1	-
T23033320000	32 x 2.9 - 4.4	1	-



SUITCASE WITH A MANUAL EXPANDER AND ROTATING HEADS

Reference	Diameter (mm)	Unit/Box
T22030000000	16 - 20 - 25 - 32	1

North America

X PAND-PEX^{F1960}

COLD EXPANSION SYSTEM
FOR PE-Xa PIPES

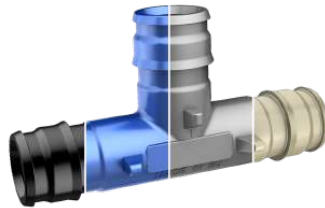


PIPEX[®]
THINK FLEXIBLE

Cold Expansion System

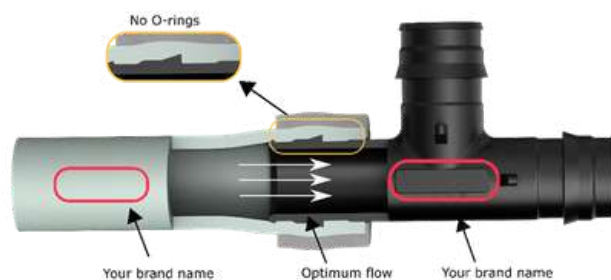


Xpand-Pex F1960 is a pipe and fitting connection system widely used in plumbing and heating circuits. It takes advantage of the great elasticity of the PE-Xa pipe, and its thermal memory of plastic materials. Increasingly used due to its ease of installation, reliability, and ideal for a wide range of applications, including potable water supply, heating and cooling systems.



Properties

- The system can only be used with PE-Xa pipes.
- Fittings specially designed for this system, which includes expanding sleeves/rings.
- No reduction of flow through fitting.
- Modern and resistable material.
- Low weight.
- Easy and quick installation.
- Using for potable water.
- OEM solution.
- Fittings and pipes are available with different colour.
- 10 years Guarantee for the fittings, pipes and complete system.
- Quality from EU, Manufactured in the EU.



Certifications

- ASTM F1960
- ASTM F876
- Nr.:C0611245-01
- NSF/ANSI 14
- NSF/ANSI/CAN 61
- NSF/ANSI 372
- CAN/CSA B137.5

Applications

- Sanitary installations
- Classic heating/cooling systems
- Surface heating/cooling systems



System components of Xpand-Pex F1960

PE-Xa Pipe

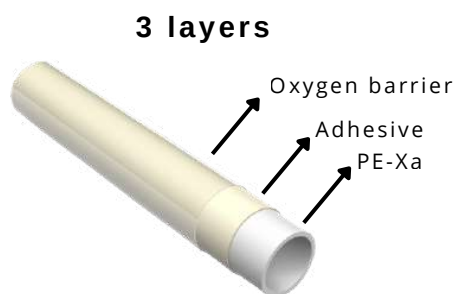
*See technical data on page: 10

Physical properties

Material	Crosslinked Polyethylene type 'a'
Density	>0.059 lb/ft ³
Crosslinking degree	≥70%

Thermal properties

Working temperature range	68 °F to 194 °F
Operating Temperature Range	14 °F to 194 °F
Thermal conductivity	0.22 BTU/h/ft/°F
Coefficient of linear expansion	1.1"/10 °F



PE-Xa pipe with oxygen barrier - EVOH

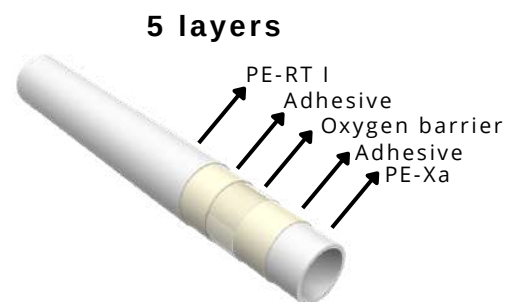
*See technical data on page: 11

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Dimensions of PE-Xa and PE-Xa EVOH

Description	I.D.	O.D.	Wall thickness	Coil/Pack weight
3/8" - PEX-a - 100/400/1000ft. Coil	0.360"	0.500"	0.070"	4.96 - 45.63 lbs
1/2" - PEX-a - 100/300/500/1000ft. Coil	0.485"	0.625"	0.070"	5.42 - 52.96 lbs
5/8" - PEX-a - 100/300/400/1000ft. Coil	0.584"	0.750"	0.083"	7.44 - 75.98lbs
3/4" - PEX-a - 100/300/400/1000ft. Coil	0.681"	0.875"	0.097"	10.25 - 100.22 lbs
1" - PEX-a - 100/300/500ft. Coil	0.875"	1.125"	0.125"	17.17 - 170.96 lbs
1 ¼" - PEX-a - 100/300ft. Coil	1.069"	1.375"	0.153"	24.8 - 284 lbs
1 ½" - PEX-a - 100/300ft. Coil	1.263"	1.625"	0.181"	34.3 - 343 lbs
2" - PEX-a - 100/300ft. Coil	1.653"	2.125"	0.236"	58.5 - 585 lbs

*Straight length of 10' and 20' are available.

*Other dimensions and colours are available under request.

PE-Xa with Oxygen Barrier available in 3 and 5 layers.

Product range



PANTENTED RING WITH STOP							
Reference	Description	A	B	C	Units/Bag	Units/Box	Weight
D0502P120000	1/2"	0.87"	0.63"	0.63"	50	4,000	0.006 lbs.
D0502P580000	(*) 5/8"	1.003"	0.787"	0.75"	50	4,000	0.010 lbs.
D0502P340000	3/4"	1.13"	0.87"	0.88"	40	2,000	0.012 lbs.
D0502P010000	1"	1.42"	1.10"	1.13"	25	1,000	0.020 lbs.
D0502P540000	1 1/4"	1.66"	1.35"	1.38"	20	500	0.030 lbs.
D0502P640000	1 1/2"	1.91"	1.61"	1.63"	8	360	0.040 lbs.
D0502P020000	2"	2.62"	1.97"	2.14"	5	150	0.133 lbs.

(*) Available soon



COUPLING - PPSU						
Reference	Description	A	B	Units/Bag	Units/Box	Weight
D0270P120012	1/2" - 1/2"	1.54"	0.67"	25	1,000	0.01 lbs.
D0270P340034	3/4" - 3/4"	2.01"	0.94"	25	425	0.02 lbs.
D0270P010001	1" - 1"	2.48"	1.18"	10	200	0.03 lbs.
D0270P540054	1 1/4" - 1 1/4"	3.03"	1.52"	10	120	0.06 lbs.
D0270P640064	1 1/2" - 1 1/2"	3.50"	1.69"	10	80	0.08 lbs.
D0270P020002	2" - 2"	4.45"	2.44"	1	36	0.23 lbs.



REDUCED COUPLING - PPSU						
Reference	Description	A	B	Units/Bag	Units/Box	Weight
D0243P340012	3/4" - 1/2"	1.77"	0.94"	25	500	0.01 lbs.
D0243P010034	1" - 3/4"	2.24"	1.18"	10	220	0.03 lbs.
D0243P540001	1 1/4" - 1"	2.76"	1.52"	10	140	0.05 lbs.
D0243P020064	2" - 1 1/2"	4"	2.44"	1	36	0.17 lbs.



PLUG - PPSU						
Reference	Description	A	B	Units/Bag	Units/Box	Weight
D0301P120000	1/2"	0.83"	0.67"	50	1,750	0.006 lbs.
D0301P340000	3/4"	1.06"	0.94"	25	700	0.011 lbs.
D0301P010000	1"	1.30"	1.18"	10	350	0.021 lbs.



90° ELBOW - PPSU						
Reference	Description	A	B	Units/Bag	Units/Box	Weight
D0090P120012	1/2" - 1/2"	1.25"	1.06"	25	550	0.01 lbs.
D0090P340034	3/4" - 3/4"	1.64"	1.46"	10	200	0.03 lbs.
D0090P010001	1" - 1"	2.05"	1.83"	10	120	0.05 lbs.
D0090P540054	1 1/4" - 1 1/4"	2.53"	2.19"	5	70	0.09 lbs.
D0090P640064	1 1/2" - 1 1/2"	2.91"	2.91"	1	43	0.13 lbs.
D0090P020002	2" - 2"	3.76"	3.76"	1	17	0.38 lbs.

Product range



EQUAL TEE - PPSU						
Reference	Description	A	B	Units/Bag	Units/Box	Weight
D0130P121212	1/2" - 1/2" - 1/2"	2.50"	1.37"	25	400	0.02 lbs.
D0130P343434	3/4" - 3/4" - 3/4"	3.28"	1.90"	10	160	0.04 lbs.
D0130P010101	1" - 1" - 1"	4.10"	2.38"	10	70	0.07 lbs.
D0130P545454	1 1/4" - 1 1/4" - 1 1/4"	5.06"	2.86"	1	40	0.12 lbs.
D0130P656565	1 1/2" - 1 1/2" - 1 1/2"	5.83"	3.66"	1	30	0.18 lbs.
D0130P020202	2" - 2" - 2"	7.52"	4.80"	1	12	0.52 lbs.



REDUCED TEE - PPSU						
Reference	Description	A	B	Units/Bag	Units/Box	Weight
D130RP343412	3/4" - 3/4" - 1/2"	3.09"	1.61"	10	200	0.03 lbs.
D130RP341212	3/4" - 1/2" - 1/2"	2.85"	1.61"	10	240	0.03 lbs.
D130RP341234	3/4" - 1/2" - 3/4"	3.10"	1.89"	10	180	0.03 lbs.
D130RP121234	1/2" - 1/2" - 3/4"	2.76"	1.65"	10	240	0.02 lbs.
D130RP010112	1" - 1" - 1/2"	3.70"	1.87"	10	100	0.05 lbs.
D130RP010134	1" - 1" - 3/4"	3.90"	2.11"	10	80	0.06 lbs.
D130RP013434	1" - 3/4" - 3/4"	3.70"	2.09"	10	100	0.05 lbs.
D130RP013401	1" - 3/4" - 1"	3.92"	2.34"	10	90	0.06 lbs.
D130RP545401	1 1/4" - 1 1/4" - 1"	4.66"	2.59"	1	45	0.10 lbs.
D130RP646401	1 1/2" - 1 1/2" - 1"	5.2"	2.71"	1	35	0.13 lbs.



OPEN MULTIPORT MANIFOLD - PPSU						
Reference	Description	A	B	Units/Bag	Units/Box	Weight
D6532P341234	3/4" - 3/4" - 1/2" - 1/2"	4.33"	1.54"	5	120	0.05 lbs.
D6533P341234	3/4" - 3/4" - 1/2" - 1/2" - 1/2"	5.58"	1.54"	5	90	0.06 lbs.



CLOSED MULTIPORT MANIFOLD - PPSU						
Reference	Description	A	B	Units/Bag	Units/Box	Weight
D6533P341200	3/4" - 1/2" - 1/2" - 1/2"	4.61"	1.54"	5	120	0.06 lbs.
D6534P341200	3/4" - 1/2" - 1/2" - 1/2" - 1/2"	5.87"	1.54"	5	95	0.07 lbs.



XPULLFITT™

SLIDING SLEEVE SYSTEM



PIPEX®
THINK FLEXIBLE

Sliding Sleeve System



Discover **XPullFitt**, our sliding ring system for PE-X pipes that simplifies and speeds up installation. With **XPullFitt**, significantly reduce the installation time of your pipes, optimizing resources and increasing productivity.

Our **XPullFitt** system offers a safe and reliable connection, minimizing the risk of leaks and guaranteeing a robust installation.

Designed to suit different applications and needs, our **XPullFitt** system is compatible with a wide range of PE-Xa pipes. By simplifying the installation process and reducing the need for specialized tools, **XPullFitt** helps you save on labor and material costs.

The **XPullFitt** system and its accessories have been designed and manufactured by the requirements established in the European Standard UNE EN ISO 15875.

Advantage of XPULLFITT

- **Quick and Easy Installation:** The intuitive sliding ring design allows for quick and hassle-free installation, saving time and effort.
- **Secure Connection:** The sliding ring mechanism ensures a firm and airtight connection, reducing the risk of leaks and ensuring optimal long-term performance.
- **Versatile Compatibility:** XPullfitt is compatible with a wide variety of PE-Xa pipes, offering flexibility to adapt to different projects and applications.
- **Durability and Resistance:** Manufactured with high-quality materials, the XPullfitt system offers a durable and resistant solution to adverse conditions, ensuring a long useful life.
- **Economy and Efficiency:** By reducing the time and costs associated with pipe installation, XPullfitt becomes an economical and efficient option for professionals and end users.
- **Safety Union:** the system dispenses with parts that may suffer from aging, such as O-rings and bicones. So a permanent tightness.
- **Higher Flow:** the system does not reduce the flow of the installation, but rather provides the opposite to other union systems.
- **Immediate Use:** the XPullfitt system does not require any waiting time. Once the connection is made, the installation can go into service immediately.

Certified
System



001/007187





XPULLFITTM PN6

SLIDING SLEEVE SYSTEM
PN6 METRIC





Our **XPullFitt PN6** sliding sleeve system (fittings and pipes) is designed for relatively low-pressure applications, making it ideal for situations where the conveyed fluid does not require high-pressure resistance.

These systems are commonly used in small buildings, such as single-family houses, for various plumbing applications, including water supply, drainage, and other low-pressure fluid transport needs. Additionally, they are well-suited for surface heating and cooling, particularly wall heating and cooling, where the ease of venting the installation and the use of a thin plaster layer allow for pipe diameters in the range of 8 - 12 mm.

The system leverages the high elasticity of PE-Xa, PE-Xb, PE-RT, and multilayer pipes, ensuring both efficiency and durability.

Advantages of XPullFitt PN6 System

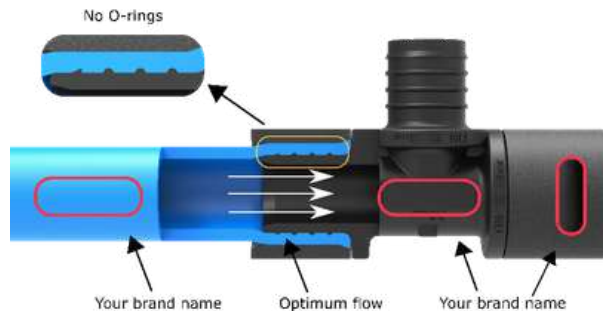
- Simple to assemble and quick to install.
- Compatible with PE-Xa, PE-Xb, PE-RT, and multilayer pipes.
- Higher flow rate, lower pressure drop.
- Secure sealing system with no O-ring required.
- Safe and reliable operation.
- No scale formation and increased corrosion resistance.
- Fittings effectively absorb dimensional variations in plastic tubing.
- Practical tools that save time and money.
- Wide range of fittings.
- 10 year warranty on the entire system (pipes + fittings)*
- Approval system according to UNE-EN ISO 15875.
- Suitable for plumbing, heating, air conditioning, and surface (floor, wall, ceiling) heating/cooling systems.
- Made with materials approved for potable water transportation, ensuring no odours, flavours, or toxicity.
- OEM solutions.

Certifications

- ISO 9001 Quality Management
- AENOR 001/007235 Certificate for the system

Applications

- Sanitary installations
- Classic heating/cooling systems
- Surface heating/cooling systems



(*) See warranty and reliability conditions in our installation guide.

System Components of XPullFitt PN6

The system has been designed to operate within the technical specifications of pressure and temperature, guaranteeing a minimum durability of 50 years.

The fittings of the **XPullFitt PN6** system are designed to use PE-Xa, PE-Xb, PE-RT, and Multilayer pipe according to the applications defined in EN ISO 15875, EN ISO 22391, and EN ISO 21003.

All systems that meet the conditions specified in the table must be suitable for the conduction of cold water for a period of 50 years at a temperature of 20 °C and a design pressure of 10 bar.

Class and Application	Design Temperature TD	Time TD (years)	Tmax	Time Tmax (years)	Tmal	Time Tmal (hours)
Class 1 Supply hot water (60 °C)	60 °C	49	80	1	95	100
Class 2 Supply hot water (70 °C)	70 °C	49	80	1	95	100
Class 4 Radiant floor heating and low-temperature radiators	20 °C followed by 40 °C followed by 60 °C	2.5 followed by 20 followed by 25	70	2.5	100	100
Class 5 High-temperature radiators	20 °C followed by 60 °C followed by 80 °C	14 followed by 25 followed by 10	90	1	100	100

TD: Design Temperature / Tmax: Maximum Temperature / Tmal: Malfunction Temperature

(*) If these conditions are exceeded, the warranty will be voided.

Each country can choose between class 1 or 2 according to its national regulations.

When more than one design temperature appears for any class, times should be added (e.g., the temperature profile for 50 years for class 5 is: 14 years at 20 °C followed by 25 years at 60 °C, 10 years at 80 °C, 1 year at 90 °C, and 100 h at 100 °C)

These standards do not apply to TD, Tmax and Tmal values higher than those indicated in the table.

According to EN ISO 15875, all heating installations must use only water or suitably treated water as the circulating fluid, ensuring compatibility with the piping system.



PE-Xa / PE-Xa EVOH Pipe

Dimensions

12x1.1	16x1.5	16x1.8	20x1.9	25x2.3	32x2.9
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PE-Xa → See technical data on page: 7

PE-Xa EVOH → See technical data on page: 8

PE-Xb / PE-Xb EVOH Pipe

Dimensions

12x1.1	16x1.5	16x1.8	20x1.9	25x2.3	32x2.9
--------	--------	--------	--------	--------	--------

PE-Xb → See technical data on page: 12

PE-Xb EVOH → See technical data on page: 13

PE-RT / PE-RT EVOH pipe

Dimensions

8x1.0	10x1.3	16x2.0	20x1.9	25x2.3	32x2.9
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PE-RT → See technical data on page: 15

PE-RT EVOH → See technical data on page: 16

PE-RT/AL/PE-RT - Multilayer pipe

Dimensions

16x2.0	20x2.0
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See technical data on page: 18

Sliding Sleeve

The sliding sleeves of the **XPullFitt PN6** system are crucial components for securely connecting and sealing pipes to fittings. These sleeves are made from high-quality of technical polymer. Their symmetrical design minimizes the risk of assembly errors and significantly enhances ease of installation.



Fittings

The **XPullFitt PN6** system employs polyphenylsulfone (PPSU) for its plastic fitting bodies, which meet the health legislation of the most stringent countries in the European Union.

The fittings are designed and manufactured according to the UNE-EN ISO 15875 standard, which governs plastic piping systems for hot and cold-water installations.



Benefits of PPSU Fittings

The PPSU version is made from a high-performance material specifically designed for potable water systems, offering several advantages:

- **Minimum internal roughness:** This results in lower pressure losses compared to brass fittings, ensuring better flow.
- **Outstanding chemical resistance:** The material is resistant to chlorine in water, preventing galvanic corrosion and oxidation issues. It is also compatible with a wide range of construction materials.
- **Lightweight:** PPSU fittings are significantly lighter than brass alternatives, making them easier to handle and install.
- **Exceptional impact resistance:** These fittings are robust and durable, able to withstand high impacts without fracturing.
- **High thermal tolerance:** The material can withstand temperatures of up to 134 °C without compromising its integrity.
- **Noise reduction:** Due to its low roughness coefficient, PPSU helps reduce noise from water flow and mitigates water hammer by 2 to 3 times compared to traditional copper or brass systems.



Product range



PE-Xa PIPE		
Reference	Diameter (mm)	Coils (m)
11011211000	12 x 1.1	50/100/200/500/600
11011615000	16 x 1.5	50/100/200/500/600
11011618000	16 x 1.8	50/100/200/500/600
11012019000	20 x 1.9	50/100/200/500/600
11012523000	25 x 2.3	50/100
11013229000	32 x 2.9	50/100



PE-Xa EVOH PIPE - 3 LAYERS		
Reference	Diameter (mm)	Coils (m)
11031211000	12 x 1.1	50/100/200/500/600
11031615000	16 x 1.5	50/100/200/500/600
11031618000	16 x 1.8	50/100/200/500/600
11032019000	20 x 1.9	50/100/200/500/600
11032523000	25 x 2.3	50/100
11033229000	32 x 2.9	50/100



PE-Xa EVOH PIPE - 5 LAYERS		
Reference	Diameter (mm)	Coils (m)
11051211000	12 x 1.1	50/100/200/500/600
11051615000	16 x 1.5	50/100/200/500/600
11051618000	16 x 1.8	50/100/200/500/600
11052019000	20 x 1.9	50/100/200/500/600
11052523000	25 x 2.3	50/100
11053229000	32 x 2.9	50/100

Other dimensions, colours and lengths are available under request

Product range



PE-Xb PIPE		
Reference	Diameter (mm)	Coils (m)
15011211000	12 x 1.1	50/100/200/500/600
15011615000	16 x 1.5	50/100/200/500/600
15011618000	16 x 1.8	50/100/200/500/600
15012019000	20 x 1.9	50/100/200/500/600
15012523000	25 x 2.3	50/100
15013229000	32 x 2.9	50/100



PE-Xb EVOH PIPE - 3 LAYERS		
Reference	Diameter (mm)	Coils (m)
15031211000	12 x 1.1	50/100/200/500/600
15031615000	16 x 1.5	50/100/200/500/600
15031618000	16 x 1.8	50/100/200/500/600
15032019000	20 x 1.9	50/100/200/500/600
15032523000	25 x 2.3	50/100
15033229000	32 x 2.9	50/100



PE-Xb EVOH PIPE - 5 LAYERS		
Reference	Diameter (mm)	Coils (m)
15051211000	12 x 1.1	50/100/200/500/600
15051615000	16 x 1.5	50/100/200/500/600
15051618000	16 x 1.8	50/100/200/500/600
15052019000	20 x 1.9	50/100/200/500/600
15052523000	25 x 2.3	50/100
15053229000	32 x 2.9	50/100

Other dimensions, colours and lengths are available under request

Product range



PE-RT PIPE		
Reference	Diameter (mm)	Coils (m)
12010810000	8 x 1.0	50/100/200/500/600
12011012500	10 x 1.3	50/100/200/500/600
12011618000	16 x 2.0	50/100/200/500/600
12012019000	20 x 1.9	50/100/200/500/600
15012523000	25 x 2.3	50/100
15013229000	32 x 2.9	50/100



PE-RT EVOH PIPE - 3 LAYERS		
Reference	Diameter (mm)	Coils (m)
12030810000	8 x 1.0	50/100/200/500/600
12031012500	10 x 1.3	50/100/200/500/600
12031618000	16 x 2.0	50/100/200/500/600
12032019000	20 x 1.9	50/100/200/500/600
12032523000	25 x 2.3	50/100
12033229000	32 x 2.9	50/100



PE-RT EVOH PIPE - 5 LAYERS		
Reference	Diameter (mm)	Coils (m)
12050810000	8 x 1.0	50/100/200/500/600
12051012500	10 x 1.3	50/100/200/500/600
12051618000	16 x 2.0	50/100/200/500/600
12052019000	20 x 1.9	50/100/200/500/600
12052523000	25 x 2.3	50/100
12053229000	32 x 2.9	50/100

Other dimensions, colours and lengths are available under request

Product range



PE-RT/AL/PE-RT PIPE		
Reference	Diameter (mm)	Coils (m)
12010810000	16 x 2.0	50/100/200/500/600
12011012500	20 x 2.0	50/100/200/500/600

Other dimensions, colours and lengths are available under request

Insulated pipe



INSULATED PE-Xa WITH AND WITHOUT EVOH			
Reference	PE-Xa diameter (mm)	Foam thickness	Coils (m)
21606S11071-A1011211000	12 x 1.1	6 mm	50/100/200/500/600
21606S11071-A1011615000	16 x 1.5	6 mm	50/100/200/500/600
21606S11071-A1011618000	16 x 1.8	6 mm	50/100/200/500/600
22006S11071-A1012019000	20 x 1.9	6 mm	50/100/200/500/600
22006S11071-A1012523000	25 x 2.3	10 mm	50/100
22006S11071-A1012630000	26 x 3.0	10 mm	50/100
22006S11071-A1013229000	32 x 2.9	10 mm	50/100

Corrugated pipe



CORRUGATED PE-Xa WITH AND WITHOUT EVOH			
Reference	PE-Xa diameter (mm)	Outer diameter corrugated (mm)	Coils (m)
14011121100	12 x 1.1	550/700	50/100
14011161500	16 x 1.5	550/700	50/100
14011161800	16 x 1.8	550/700	50/100
14011201900	20 x 1.9	740	50
14011252300	25 x 2.3	750	50
14011262300	26 x 2.3	750	50
14011322900	32 x 2.9	750	50

Other dimensions and colours are available under request

Product range



SLIDING SLEEVE WITH RIB - PPSU			
Reference	Diameter (mm)	Units/Bag	Units/Box
B0504P080000	8	50	2,400
B0504P100000	10	50	1,950
B0504P120000	12	50	1,250
B0504P160000	16 - 2	50	750
B0504P260000	26	25	350



SLIDING SLEEVE - PPSU			
Reference	Diameter (mm)	Units/Bag	Units/Box
B0503P160000	16 - 1.5	50	800
B0503P200000	20	50	600
B0503P250000	25	25	350
B0503P320000	32	25	250



EQUAL COUPLING - PPSU			
Reference	Diameter (mm)	Units/Bag	Units/Box
B0270P080008	8 - 8	50	1,250
B0270P100010	10 - 10	50	1,000
B0270P120012	12 - 12	50	750
B0270P160016	16 - 16	50	600
B0270P200020	20 - 20	50	500
B0270P250025	25 - 25	25	250
B0270P320032	32 - 32	25	125



REDUCING COUPLING - PPSU			
Reference	Diameter (mm)	Units/Bag	Units/Box
B0243P160008	16 - 8	50	1,000
B0243P160010	16 - 10	50	750
B0243P160012	16 - 12	50	750
B0243P200010	20 - 10	50	550
B0243P200012	20 - 12	50	550
B0243P200016	20 - 16	50	550
B0243P250016	25 - 16	25	275
B0243P250020	25 - 20	25	275
B0243P320025	32 - 25	25	125

Product range



STOPPER - PPSU			
Reference	Diameter (mm)	Units/Bag	Units/Box
B0301P160000	16	50	1,200
B0301P200000	20	50	850



90° ELBOW - PPSU			
Reference	Diameter (mm)	Units/Bag	Units/Box
B0090P120012	12 - 12	50	750
B0090P160016	16 - 16	50	450
B0090P200020	20 - 20	50	400
B0090P250025	25 - 25	25	70
B0090P320032	32 - 32	25	70



REDUCING ELBOW - PPSU			
Reference	Diameter (mm)	Units/Bag	Units/Box
B090RP200008	20 - 8	50	400
B090RP200010	20 - 10	50	400
B090RP200012	20 - 12	50	450



EQUAL TEE - PPSU			
Reference	Diameter (mm)	Units/Bag	Units/Box
B0130P121212	12 - 12 - 12	50	400
B0130P161616	16 - 16 - 16	50	250
B0130P202020	20 - 20 - 20	50	200
B0130P252525	25 - 25 - 25	10	80
B0130P323232	32 - 32 - 32	10	40

Product range



REDUCING TEE - PPSU			
Reference	Diameter (mm)	Units/Bag	Units/Box
B130RP160816	16 - 8 - 16	50	300
B130RP161016	16 - 10 - 16	50	300
B130RP161212	16 - 12 - 12	50	300
B130RP161216	16 - 12 - 16	50	300
B130RP161612	16 - 16 - 12	50	300
B130RP162016	16 - 20 - 16	50	200
B130RP162516	16 - 25 - 16	50	200
B130RP200820	20 - 8 - 20	50	200
B130RP201020	20 - 10 - 20	50	250
B130RP201212	20 - 12 - 12	50	250
B130RP201216	20 - 12 - 16	50	250
B130RP201220	20 - 12 - 20	50	200
B130RP201616	20 - 16 - 16	50	200
B130RP201620	20 - 16 - 20	50	200
B130RP202016	20 - 20 - 16	50	200
B130RP202516	20 - 25 - 16	10	100
B130RP202520	20 - 25 - 20	10	100
B130RP251616	25 - 16 - 16	10	100
B130RP251620	25 - 16 - 20	10	80
B130RP251625	25 - 16 - 25	10	80
B130RP252016	25 - 20 - 16	10	80
B130RP252020	25 - 20 - 20	10	80
B130RP252025	25 - 20 - 25	10	80
B130RP252516	25 - 25 - 16	10	80
B130RP252520	25 - 25 - 20	10	80
B130RP321632	32 - 16 - 32	10	60
B130RP322020	32 - 20 - 20	10	60
B130RP322025	32 - 20 - 25	10	60
B130RP322032	32 - 20 - 32	10	50
B130RP322520	32 - 25 - 20	10	60
B130RP322525	32 - 25 - 25	10	60
B130RP322532	32 - 25 - 32	10	50
B130RP323220	32 - 32 - 20	10	50
B130RP323225	32 - 32 - 25	10	50

Product range



OPEN MULTIPORT - 4 OUTLETS - PPSU			
Reference	Diameter (mm)	Units/Bag	Units/Box
B498DP200820	20 - 8 - 8 - 20 - 8 - 8	10	120
B498DP201020	20 - 10 - 10 - 20 - 10 - 10	10	100



OPEN MULTIPORT - 3 OUTLETS - PPSU			
Reference	Diameter (mm)	Units/Bag	Units/Box
B497DP200820	20 - 8 - 8 - 20 - 8	10	120
B497DP201020	20 - 10 - 10 - 20 - 10	10	100



OPEN MULTIPORT - 2 OUTLETS - PPSU			
Reference	Diameter (mm)	Units/Bag	Units/Box
B496DP200820	20 - 8 - 8 - 20	10	120
B496DP201020	20 - 10 - 10 - 20	10	120
B496DP201220	20 - 12 - 12 - 20	10	80



CLOSED MULTIPORT - 4 OUTLETS - PPSU			
Reference	Diameter (mm)	Units/Bag	Units/Box
B498DP200800	20 - 8 - 8 - 8 - 8	10	140
B498DP201000	20 - 10 - 10 - 10 - 10	10	120



CLOSED MULTIPORT - 3 OUTLETS - PPSU			
Reference	Diameter (mm)	Units/Bag	Units/Box
B497DP200800	20 - 8 - 8 - 8	10	120
B497DP201000	20 - 10 - 10 - 10	10	100



CLOSED MULTIPORT - 2 OUTLETS - PPSU			
Reference	Diameter (mm)	Units/Bag	Units/Box
B496DP200800	20 - 8 - 8	10	180
B496DP201000	20 - 10 - 10	10	170
B496DP201200	20 - 12 - 12	10	100

Product range



CROSS - PPSU			
Reference	Diameter (mm)	Units/Bag	Units/Box
B495CP200820	20 - 8 - 20 - 8	10	200
B495CP201020	20 - 10 - 20 - 10	10	180



DISTRIBUTOR - PPSU			
Reference	Diameter (mm)	Units/Bag	Units/Box
B495DP200800	20 - 8 - 8	10	200
B495DP201000	20 - 10 - 10	10	180

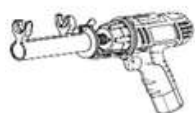
Accessories & Tools



PLASTIC RADIATOR CONNECTION - SET			
Reference	Diameter (mm)	Uts./bag	Qty./ box
U51D23160000	16 - 16	pair	-



MOUNTING PLATE IN U			
Reference	Description	Uts./bag	Qty./ box
A475UA160001	M1 - mono 16-25mm	10	-
A475UA160002	M2 - double 16-25mm	10	-



SET WITH BATTERY TOOL FOR PRESSING			
Reference	Description	Units/Bag	Units/Box
T43019121620	To 20 mm	1	-



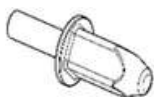
BATTERY TOOL ADAPTER			
Reference	Description	Units/Bag	Units/Box
T42022121620	To 20 mm	1	-

Accessories & Tools



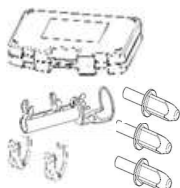
SPECIAL ROTATING EXPANDER FOR PE-X AND PE-RT PIPES

Reference	Diameter	Unit/bag	Qty./ box
T42020080000	8 mm	1	-
T42020100000	10 mm	1	-
T42020120000	12 mm	1	-
T42020160000	16 mm	1	-
T42020200000	20 mm	1	-
T42020250000	25 mm	1	-
T42020250000	32 mm	1	-



SPECIAL ROTATING EXPANDER FOR MULTILAYER PIPES

Reference	Diameter	Unit/bag	Qty./ box
T42021160000	16 mm	1	-
T42021200000	20 mm	1	-



BATTERY TOOL SET - EXPANDING WITH TURNING AND PRESSING TOOL, EXPANDERS AND JAWS ROTATING EXPANDERS

Reference	Diameter	Unit/bag	Qty./ box
T43025120032	12, 16, 20 mm	1	-



JAWS FOR PRESSING TOOL SET

Reference	Diameter	Unit/bag	Qty./ box
T42023080000	8 mm	1	-
T42023100000	10 mm	1	-
T42023120000	12 mm	1	-
T42023160000	16 mm	1	-



SPECIAL ANGLE ADAPTER FOR BATTERY TOOL

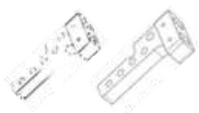
Reference	Diameter	Unit/bag	Qty./ box
T42024080020	8 - 20 mm	1	-

Accessories & Tools



CHAIN MANUAL TOOL FOR ASSEMBLING WITHOUT JAWS

Reference	Diameter	Units/Bag	Units/Box
T12012000000	8 - 32 mm	1	-



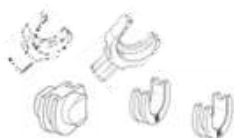
FORKS BASE FOR CHAIN MANUAL TOOL

Reference	Diameter	Unit/bag	Qty./ box
T42013080032	8 - 32 mm	1	-



JAWS SET FOR CHAIN MANUAL TOOL

Reference	Diameter	Unit/bag	Qty./ box
T42023200000	20 mm	1	-



JAWS SET FOR FORKS BASE CHAIN MANUAL TOOL

Reference	Diameter	Unit/bag	Qty./ box
T42023250032	25 - 32 mm	1	-



MANUAL EXPANDER TOOL

Reference	Diameter (mm)	Units/Bag	Units/Box
T12014000000	16-32 mm	1	-



EXPANDING HEAD FOR MANUAL EXPANDER TOOL

Reference	Diameter	Units/Bag	Units/Box
T42016160000	16 x 1.5 mm	1	-
T42016200000	20 x 1.9 mm	1	-
T42016250000	25 x 2.3 mm	1	-
T42016320000	32 x 2.9 mm	1	-



PIPE CUTTER

Reference	Diameter	Unit/bag	Qty./ box
T52070160032	16 - 32 mm	1	-

Accessories & Tools



PIPE IDENTIFICATION			
Reference	Diameter	Unit/bag	Qty./ box
U51D02160018	Red colour 16 - 18 mm	100	1,000
U51D02200023	Red colour 20 - 23 mm	100	650
U51D03160018	Blue colour 16 - 18 mm	100	1,000
U51D03200023	Blue colour 20 - 23 mm	100	650



PIPE DECOILER			
Reference	Description	Unit/bag	Qty./ box
U52D07000000	Horizontal pipe decoiler	1	-
U52D06000000	Vertical pipe decoiler	1	-

Horizontal weight: 11.5 Kg
Vertical weight: 35 Kg



XPULLFITTM PN10

SLIDING SLEEVE SYSTEM
PN10 METRIC



Sliding Sleeve System PN10 Metric



Our **XPullFitt PN10** sliding sleeve system offers quick and easy installation without the need for gluing, soldering, or welding, ensuring maximum reliability and safety. This method of connecting pipes and fittings is widely adopted in plumbing and heating systems. The system leverages the high elasticity of PE-Xa pipes and the shape memory of cross-linked polyethylene, making it both efficient and durable. Due to its ease of installation and proven reliability, **XPullFitt** is very popular for various applications, including potable water supply, heating, and cooling systems.

Advantages of XPullFitt PN10 System

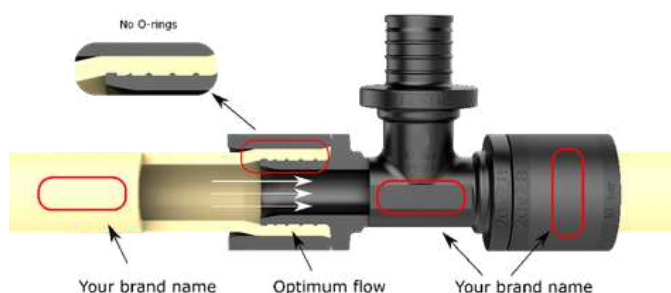
- Simple to assemble and quick to install.
- Compatible with PE-Xa pipes.
- Higher flow rate with lower pressure drops compared to press fittings.
- Secure sealing system with no O-ring required.
- Safe and reliable operation.
- No scale formation and increased corrosion resistance.
- Fittings effectively absorb dimensional variations in plastic tubing.
- Practical tools that save both time and money.
- Wide range of fittings and threaded connections.
- 10-year warranty on the entire system (pipes and fittings)*
- Certified system according to UNE-EN ISO 15875.
- Suitable for plumbing, heating, air conditioning, and surface (floor, wall, ceiling) heating/cooling systems.
- Made with materials approved for potable water transportation, ensuring no odours, flavours, or toxicity.
- OEM solutions.

Certifications

- ISO 9001 Quality Management
- AENOR 001/007235 Certificate for the system

Applications

- Sanitary installations
- Classic heating/cooling systems
- Surface heating/cooling systems



(*) See warranty and reliability conditions in our installation guide.

System Components of XPullFitt PN10

The system has been designed to operate within the technical specifications of pressure and temperature, guaranteeing a minimum durability of 50 years.

The fittings of the **XPullFitt PN10** system are designed to use PE-Xa pipe according to the applications defined in EN ISO 15875.

All systems that meet the conditions specified in the table must be suitable for the conduction of cold water for a period of 50 years at a temperature of 20 °C and a design pressure of 10 bar.

Service conditions according to EN ISO 2103

Class and application	Design temperature TD	TD time (years)	Tmax	Time Tmax (years)	Tmal	Time Tmal (hours)
Class 1 - Supply hot water (60 °C)	60 °C	49	80	1	95	100
Class 2 - Supply hot water (70 °C)	70 °C	49	80	1	95	100
Class 4 - Radiant floor heating and low-temperature radiators	20°C followed by 40°C followed by 60°C	2.5 followed by 20 followed by 25	70	2.5	100	100
Class 5 - High-temperature radiators	20°C followed by 60°C followed by 80°C	14 followed by 25 followed by 10	90	1	100	100

TD: Design Temperature - Tmax: Maximum Temperature - Tmal: Malfunction Temperature

(*) If these conditions are exceeded, the warranty will be voided.

Each country can choose between class 1 or 2 according to its national regulations.

When more than one design temperature appears for any class, times should be added (e.g., the temperature profile for 50 years for class 5 is: 14 years at 20 °C followed by 25 years at 60 °C, 10 years at 80 °C, 1 year at 90 °C, and 100 h at 100 °C)

These standards do not apply to TD, Tmax and Tmal values higher than those indicated in the table.

According to EN ISO 15875, all heating installations must use only water or suitably treated water as the circulating fluid, ensuring compatibility with the piping system.



PE-Xa / PE-Xa EVOH Pipe

Dimensions

16x2.2	20x2.8	25x3.5	32x4.4
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PE-Xa → See technical data on page: 7

PE-Xa EVOH → See technical data on page: 8

Sliding Sleeve

The sliding sleeves of the **XPullFitt PN10** system are crucial components for securely connecting and sealing pipes to fittings. These sleeves are made from high-quality of technical polymer. Their symmetrical design minimizes the risk of assembly errors and significantly enhances ease of installation.



Fittings

The **XPullFitt PN10** system employs polyphenylsulfone (PPSU) for its plastic fitting bodies and high-quality European brass (CW617N) for threaded connections. Both materials meet the health regulations of the most stringent countries in the European Union.

The fittings are designed and manufactured in accordance with the UNE-EN ISO 15875 standard, which governs plastic piping systems for hot and cold-water installations using PE-X.



Benefits of PPSU Fittings

The PPSU version is made from a high-performance material specifically designed for potable water systems, offering several advantages:

- **Minimal internal roughness:** This results in lower pressure loss compared to brass fittings, ensuring better flow.
- **Outstanding chemical resistance:** The material is resistant to chlorine in water, preventing galvanic corrosion and oxidation issues. It is also compatible with a wide range of construction materials.
- **Lightweight:** PPSU fittings are significantly lighter than brass alternatives, making them easier to handle and install.
- **Exceptional impact resistance:** These fittings are robust and durable, able to withstand high impacts without fracturing.
- **High thermal tolerance:** The material can withstand temperatures of up to 134 °C without compromising its integrity.
- **Noise reduction:** Due to its low roughness coefficient, PPSU helps reduce noise from water flow and mitigates water hammer by 2 to 3 times compared to traditional copper or brass systems.
- **Safe for potable water:** Suitable for potable water applications, as the material does not affect taste or odour.

Product range



PE-Xa PIPE		
Reference	Diameter (mm)	Coils (m)
11011622000	16 x 2.2	50/100/200/500/600
11012028000	20 x 2.8	50/100/200/500/600
11012535000	25 x 3.5	50/100
11013244000	32 x 4.4	50/100



PE-Xa EVOH PIPE - 3 LAYERS		
Reference	Diameter (mm)	Coils (m)
11031622000	16 x 2.2	50/100/200/500/600
11032028000	20 x 2.8	50/100/200/500/600
11032535000	25 x 3.5	50/100
11033244000	32 x 4.4	50/100



PE-Xa EVOH PIPE - 5 LAYERS		
Reference	Diameter (mm)	Coils (m)
11051622000	16 x 2.2	50/100/200/500/600
11052028000	20 x 2.8	50/100/200/500/600
11052535000	25 x 3.5	50/100
11053244000	32 x 4.4	50/100

Other dimensions, colours and lengths are available under request

Insulated pipe



INSULATED PE-Xa WITH AND WITHOUT EVOH			
Reference	Diameter (mm)	Foam thickness	Coils (m)
21606S11071-A1011622000	16 x 2.2	6 mm	50/100/200/500/600
22006S11071-A1012028000	20 x 2.8	6 mm	50/100/200/500/600
22510S11071-A1012535000	25 x 3.5	9-10 mm	50/100
23210S11071-A10123244000	32 x 4.4	9-10 mm	50/100

Corrugated pipe



CORRUGATED PE-Xa WITH AND WITHOUT EVOH			
Reference	PE-Xa diameter (mm)	Outer diameter corrugated (mm)	Coils (m)
1401162200	16 x 2.2	700	50/100/200/500/600
14011202800	20 x 2.8	750	50/100/200/500/600
14011253500	25 x 3.5	750	50/100
14011324400	32 x 4.4	750	50/100

Other dimensions and colours are available under request

Product range



SLIDING SLEEVE - PPSU			
Reference	Diameter (mm)	Units/bag	Qty./ box
A0501P160000	16	50	550
A0501P200000	20	50	350
A0501P250000	25	10	190
A0501P320000	32	10	110



EQUAL COUPLING - PPSU			
Reference	Diameter (mm)	Units/bag	Qty./ box
A0270P160016	16 - 16	10	300
A0270P200020	20 - 20	10	200
A0270P250025	25 - 25	10	130
A0270P320032	32 - 32	5	35



REDUCING COUPLING - PPSU			
Reference	Diameter (mm)	Units/bag	Qty./ box
A0243P200016	20 - 16	10	230
A0243P250016	25 - 16	10	180
A0243P250020	25 - 20	10	150
A0243P320025	32 - 25	5	80



90° ELBOW - PPSU			
Reference	Diameter (mm)	Units/bag	Qty./ box
A0090P160016	16 - 16	10	200
A0090P200020	20 - 20	10	140
A0090P250025	25 - 25	10	80
A0090P320032	32 - 32	3	42



EQUAL TEE - PPSU			
Reference	Diameter (mm)	Units/bag	Qty./ box
A0130P161616	16 - 16 - 16	10	160
A0130P202020	20 - 20 - 20	10	90
A0130P252525	25 - 25 - 25	10	60
A0130P323232	32 - 32 - 32	3	27

Product range



REDUCING TEE - PPSU			
Reference	Diameter (mm)	Units/bag	Qty./ box
A130RP162016	16 - 20 - 16	10	130
A130RP162516	16 - 25 - 16	10	100
A130RP201616	20 - 16 - 16	10	130
A130RP201620	20 - 16 - 20	10	120
A130RP202016	20 - 20 - 16	10	100
A130RP202516	20 - 25 - 16	10	80
A130RP202520	20 - 25 - 20	10	80
A130RP251616	25 - 16 - 16	10	90
A130RP251620	25 - 16 - 20	10	90
A130RP251625	25 - 16 - 25	10	70
A130RP252016	25 - 20 - 16	10	80
A130RP252020	25 - 20 - 20	10	80
A130RP252025	25 - 20 - 25	10	60
A130RP252516	25 - 25 - 16	10	70
A130RP252520	25 - 25 - 20	10	60
A130RP253225	25 - 32 - 25	3	39
A130RP321632	32 - 16 - 32	3	39
A130RP322032	32 - 20 - 32	3	39
A130RP322525	32 - 25 - 25	3	39
A130RP322532	32 - 25 - 32	3	33



MALE CONNECTOR - BRASS			
Reference	Diameter (mm)	Units/bag	Qty./ box
A243GB160012	16 - 1/2"M	10	330
A243GB160034	16 - 3/4"M	10	260
A243GB200012	20 - 1/2"M	10	250
A243GB200034	20 - 3/4"M	10	230
A243GB250012	25 - 1/2"M	10	200
A243GB250034	25 - 3/4"M	10	170
A243GB250001	25 - 1"M	10	120
A243GB320034	32 - 3/4"M	10	110
A243GB320001	32 - 1"M	10	80

Product range



FEMALE CONNECTOR - BRASS			
Reference	Diameter (mm)	Units/bag	Qty./ box
A270GB160012	16 - 1/2"F	10	300
A270GB200012	20 - 1/2"F	10	270
A270GB200034	20 - 3/4"F	10	200
A270GB250034	25 - 3/4"F	10	160
A270GB250001	25 - 1"F	10	100
A270GB320001	32 - 1"F	10	90



MALE ELBOW - BRASS			
Reference	Diameter (mm)	Units/bag	Qty./ box
A092GB160012	16 - 1/2"M	10	280
A092GB160034	16 - 3/4"M	10	210
A092GB200012	20 - 1/2"M	10	210
A092GB200034	20 - 3/4"M	10	170
A092GB250034	25 - 3/4"M	10	120
A092GB250001	25 - 1"M	10	90
A092GB320001	32 - 1"M	10	60



FEMALE ELBOW - BRASS			
Reference	Diameter (mm)	Units/bag	Qty./ box
A090GB160012	16 - 1/2"F	10	270
A090GB160034	16 - 3/4"F	10	200
A090GB200012	20 - 1/2"F	10	210
A090GB200034	20 - 3/4"F	10	170
A090GB250034	25 - 3/4"F	10	120
A090GB250001	25 - 1"F	10	90
A090GB320001	32 - 1"F	10	60



FEMALE ELBOW WITH FIXING BASE - BRASS			
Reference	Diameter (mm)	Units/bag	Qty./ box
A473GB160012	16 - 1/2"F	10	140
A473GB200012	20 - 1/2"F	10	120
A473GB200034	20 - 3/4"F	10	100

Product range



FEMALE TEE - BRASS			
Reference	Diameter (mm)	Units/bag	Qty./ box
A130GB161216	16 - 1/2"F - 16	10	190
A130GB201220	20 - 1/2"F - 20	10	120
A130GB203420	20 - 3/4"F - 20	10	100



FEMALE ADAPTER WITH SWIVEL NUT - BRASS			
Reference	Diameter (mm)	Units/bag	Qty./ box
A096GB160012	16 - 1/2"	10	360
A096GB160034	16 - 3/4"	10	290
A096GB200012	20 - 1/2"	10	310
A096GB200034	20 - 3/4"	10	250
A096GB250034	25 - 3/4"	10	200
A096GB250001	25 - 1"	10	130
A096GB320001	32 - 1"	10	100



RADIATOR CONNECTOR			
Reference	Diameter (mm)	Units/bag	Qty./ box
A090SB160015	16 - 15 L250	10	50
A090SB200015	20 - 15 L250	10	50
A090LB160015	16 - 15 L750	20	100
A090LB200015	20 - 15 L750	20	100



EQUAL TEE RADIATOR CONNECTOR			
Reference	Diameter (mm)	Units/bag	Qty./ box
A130LB161516	16 - 15 - 16 L250	10	50
A130LB201520	20 - 15 - 20 L250	10	50

Accessories & Tools



PLASTIC RADIATOR CONNECTION - SET			
Reference	Diameter (mm)	Uts./bag	Qty./ box
U51D23160000	16 - 16	pair	-



MOUNTING PLATE IN U			
Reference	Description	Uts./bag	Qty./ box
A475UA160001	M1 - mono 16 - 25 mm	10	-
A475UA160002	M2 - double 16 - 25 mm	10	-

Tools



BATTERY-POWERED AXIAL PRESS AND EXPANDER 18KN, INCLUDES DOUBLE FORK, ROTATING HEADS, 2 BATTERIES AND BATTERY CHARGER			
Reference	Diameter (mm)	Uts./bag	Qty./ box
T13011000000	16 - 20 - 25 - 32	1	-



EXPANDER HEAD FOR BATTERY-OPERATED EXPANDER, PE-X PIPE			
Reference	Diameter (mm)	Uts./bag	Qty./ box
T12017160000	16 - 2.2	1	-
T12017200000	20 - 2.8	1	-
T12017250000	25 - 3.5	1	-
T12017320000	32 - 4.4	1	-



DOUBLE FORK SET FOR BATTERY-POWERED BALER			
Reference	Diameter (mm)	Uts./bag	Qty./ box
T12018160020	16 - 20	1	-
T12018250032	25 - 32	1	-



BATTERY			
Reference	Description	Uts./bag	Qty./ box
T31055000000	DC 18V 2.0 Ah	1	-



BATTERY CHARGER			
Reference	Description	Uts./bag	Qty./ box
T31056000000	AC 100V-240V 50-60 Hz	1	-



SET WITH MANUAL PRESSING TOOL, FORKS, HEADS AND SUITCASE			
Reference	Diameter (mm)	Uts./bag	Qty./ box
T13010000000	16 - 20 - 25 - 32	1	-



PRESSING TOOL WITHOUT JAWS

Reference	Diameter (mm)	Uts./bag	Qty./ box
T12012000000	16 - 32	1	-



PAIR JAWS FOR PRESSING TOOL

Reference	Diameter (mm)	Uts./bag	Qty./ box
T12013160000	16	2	-
T12013200000	20	2	-
T12013250000	25	2	-
T12013320000	32	2	-



MANUAL EXPANDER TOOL

Reference	Diameter (mm)	Uts./bag	Qty./ box
T12014000000	16 - 32	1	-



EXPANDING HEAD FOR EXPANDING MANUAL TOOL FOR PE-X PIPES

Reference	Diameter (mm)	Uts./bag	Qty./ box
T12016160000	16 - 2.2	1	-
T12016200000	20 - 2.8	1	-
T12016250000	25 - 3.5	1	-
T12016320000	32 - 4.4	1	-

FittPress[®]
PRESS FITTINGS SYSTEM
FOR MULTILAYER PIPE



PIPEX[®]
THINK FLEXIBLE

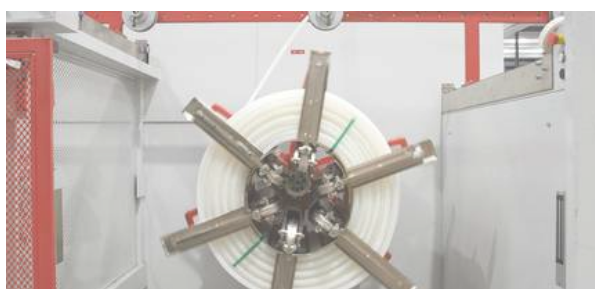
Press Fittings System for Multilayer Pipe

XFittPress is an advanced method for connecting pipes and fittings, widely used in plumbing and heating systems. This system is an efficient and safe alternative to traditional welding or pressing methods.

Its popularity has proliferated thanks to its ease of installation and high reliability. **XFittPress** is ideal for a wide range of applications, including potable water supply and heating systems, ensuring a versatile and durable solution for any project.

Advantages of the XFittPress system

- Simple to assemble and quick to install.
- Compatible with PE-RT/AL/PE-RT and PE-X/AL/PE-X multilayer pipe.
- Secure sealing system with **Leak Before Press** (LBP) function.
- Safe and reliable system.
- Availability in different diameters.
- The PPSU accessory provides a good thermal insulator.
- Designed with a minimum volume compared to the tube, which allows the installation to be embedded in both classic (brick) and modern (plasterboard or synthetic materials) partitions.
- Pressure and temperature resistance; The working temperature can be raised to 95°C, with a pressure of 10 bar.
- Up to 10 years system warranty (pipe + accessories)*.
- Suitable for plumbing, heating, air conditioning, and underfloor heating/cooling systems.
- Manufactured with materials approved for the transport of drinking water, providing no odour, taste, or toxicity.



Components of the XFitPress System

System manufactured according to the EN ISO 21003 standard to operate within the technical specifications of pressure and temperature, guaranteeing a minimum durability of 50 years.

XFitPress is designed for joining accessories with multilayer pipes (PE-RT/AL/PE-RT and PE-Xb/AL/PE-Xb) from Auray Managing, through the pressing joining technique. The accessories are available in plastic (PPSU) and metal (Brass) versions. The fixed radial compression bushings are made of stainless steel and are attached to the body of the fitting by a plastic ring.

Service conditions according to EN ISO 2103

Class and application	Design temperature TD	TD time (years)	Tmax	Time Tmax (years)	Tmal	Time Tmal (hours)
Class 1 Hot water supply (60°C)	60 °C	49	80	1	95	100
Class 2 Hot water supply (70°C)	70 °C	49	80	1	95	100
Underfloor heating and low temperature radiators class 4	20°C followed by 40°C followed by 60°C	2.5 followed by 20 followed by 25	70	2.5	100	100
Class 5 high temperature radiators	20°C followed by 60°C followed by 80°C	14 followed by 25 followed by 10	90	1	100	100

TD: Design temperature

Tmax: Maximum temperature

Tmal: Malfunction temperature

(*) If these conditions are exceeded, the warranty will be void.

Each country can choose between class 1 or 2 according to its national regulations.

When several design temperatures appear for a class, durations should be added (for example, the 50-year temperature profile for class 5 is: 14 years at 20 °C followed by 25 years at 60 °C, 10 years at 80 °C, 1 year at 90 °C and 100 h at 100 °C)

These standards do not apply to TD, Tmax and Tmal values higher than those indicated in the table.

According to EN ISO 15875, all heating installations must use only water or suitably treated water as the circulating fluid, ensuring compatibility with the piping system.



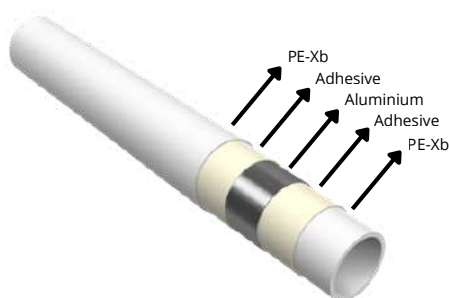
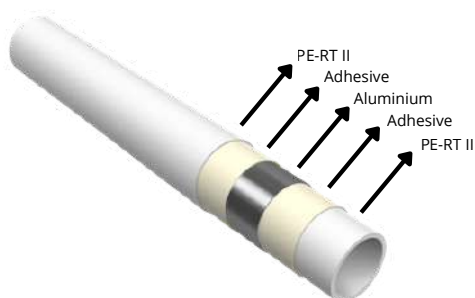
PE-RT/AL/PE-RT and PE-Xb/AL/PE-Xb multilayer pipe

Dimensions

16x2.0	18x2.0	20x2.0	25x2.5	26x.30	32x3.0
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PE-RT/AL/PE-RT → See technical data on page: 18

PE-X/AL/PE-X → See technical data on page: 20



PE Foam

Thickness dimensions

6 mm	9 mm	10 mm
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See technical data on page: 25



Corrugated pipe

See technical data on page: 23

Dimensions

Diameter Pex	B (mm)	C (mm)	Tol. (mm)
A (mm)			
16	26	20	± 0.5
20	32	24	± 0.5
25	40	30	± 0.5
32	50	40	± 0.5
DUO			
16	26	20	± 0.5

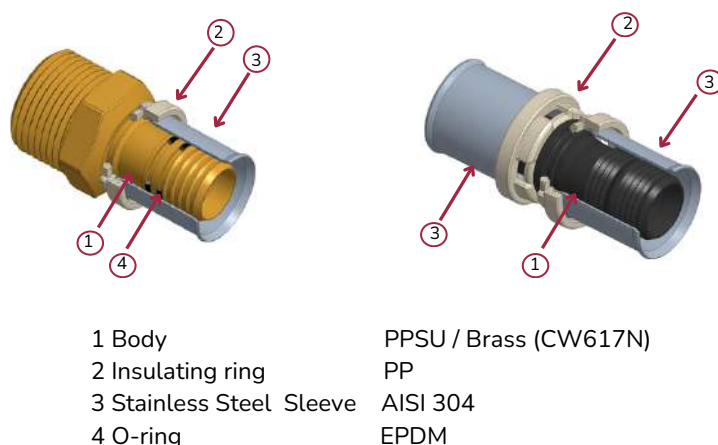
Other colours are available under request



Fittings

The **XFittPress** system uses polyphenyl sulfone (PPSU) for the manufacturing of the plastic accessory bodies and the highest quality European brass (CW617N) for the threaded joints, which complies with the health legislation of the most demanding countries in the European Union. The bushings are made of AISI 304 stainless steel.

The accessories are designed and manufactured according to the EN ISO 21003 standard (Multilayer piping systems for hot and cold water installations inside buildings), a reference standard for plastic piping systems for cold/hot water installations.



The fittings are designed with an LBP (Leak Before Press) system. LBP technology is ready to indicate where pressing has been skipped. If the fitting is not pressed, it will leak through the bushing. This makes it easier to detect the absence of pressing during the pressure test. XFittPress accessories comply with the most demanding regulations, guaranteeing their tightness and sanitary qualities.

The brass fittings incorporate high-quality EPDM O-ring, suitable for contact with hot water. In the case of PPSU accessories, it does not include an O-ring, since it takes advantage of the elasticity of the internal layer (PE-RT or PE-Xb) of the multilayer tube to achieve tightness after pressing.

The plastic bushing holder ring allows for faster assembly, facilitating optimal jaw positioning. In addition, it has the function of avoiding the galvanic couple between the tube and the accessory, in the case of a metallic accessory. The ring has holes that allow you to control the complete and correct insertion of the tube into the accessory.

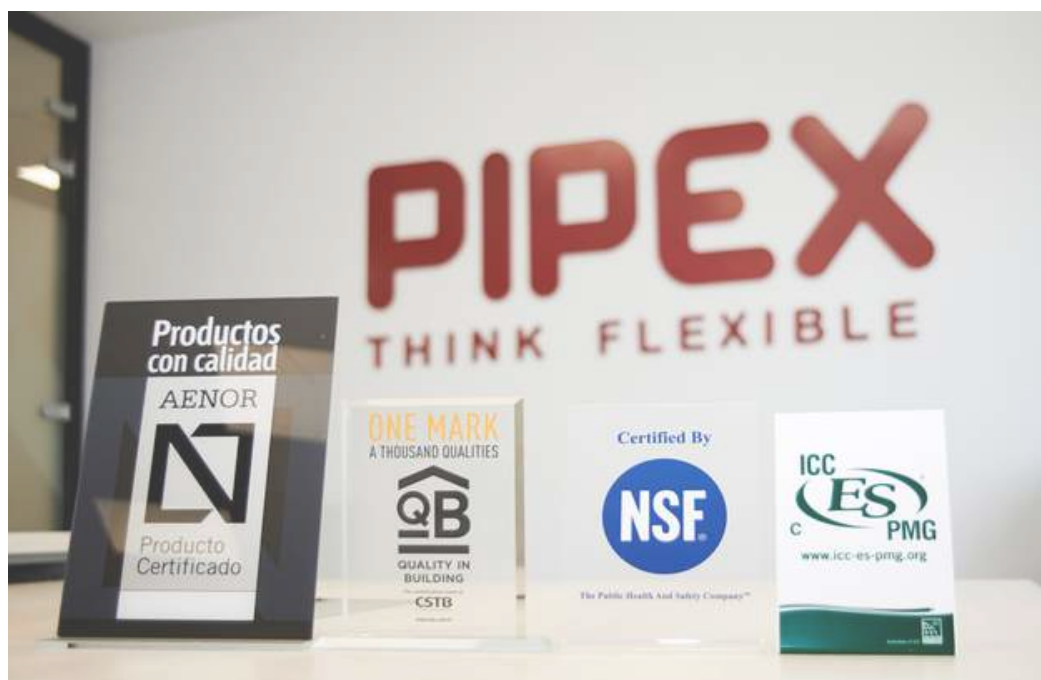
The threaded parts have a hexagonal part allowing the use of a wrench when tightening the accessory. The threaded area is protected with a plastic cap. Thread according to EN ISO 228.

The system is designed to be pressed with "TH" and "U" profile jaws.

Benefits of PPSU fittings

The PPSU version uses a high-performance material designed specifically for use in potable water installations:

- **Minimum internal roughness:** this results in lower pressure losses compared to brass fittings.
- **Outstanding chemical resistance:** the material is immune to the effect of chlorine in water, avoiding galvanic corrosion and oxidation problems. In addition, its composition makes it compatible with a wide range of construction materials.
- **Lightweight:** PPSU fittings are considerably lighter than their brass counterparts.
- **Exceptional impact resistance:** These fittings are robust and durable, able to withstand strong impacts without fracturing.
- **High thermal tolerance:** the material can withstand temperatures up to 134°C without compromising its integrity.
- **Not noise disturbance:** the PPSU material prevents noise produced by water circulation, due to its low roughness coefficient, cushioning water hammer 2 to 3 times compared to traditional copper or brass systems.



Product range

PE-RT/AL/PE-RT PIPE		
Reference	Diameter (mm)	Coils (m)
13021620010	16 x 2.0	50/100/200/500/600
13021820010	18 x 2.0	50/100/200/500/600
13022020010	20 x 2.0	50/100/200/500/600
13022525010	25 x 2.5	50/100
13022630010	26 x 3.0	50/100
13023230010	32 x 3.0	50/100



PE-Xb/AL/PE-Xb PIPE		
Reference	Diameter (mm)	Coils (m)
13041620010	16 x 2.0	50/100/200/500/600
13041820010	18 x 2.0	50/100/200/500/600
13042020010	20 x 2.0	50/100/200/500/600
13042525010	25 x 2.5	50/100
13042630010	26 x 3.0	50/100
13043230010	32 x 3.0	50/100



INSULATED PIPE			
Reference	Multilayer pipe diameter	Foam thickness	Coils (m)
21606S11071-A3021620010	16 x 2.0 mm	6 mm	50/100
21806S11071-A3021820010	18 x 2.0 mm	6 mm	50/100
22006S11071-A3022020010	20 x 2.0 mm	6 mm	50/100
22510S11071-A3022525010	25 x 2.5 mm	10 mm	25/50
22610S11071-A3022630010	26 x 3.0 mm	10 mm	25/50
23210S11071-A3033230010	32 x 3.0 mm	10 mm	25/50
DUO			
U21606S110711-A3021620010	16 x 2.0 mm	6 mm	50/100



CORRUGATED PIPE			
Reference	Multilayer pipe diameter	Outer diameter corrugated (mm)	Coils (m)
14031162010	16 x 2.0 mm	550	50/100
14031182010	18 x 2.0 mm	740	50/100
14031202010	20 x 2.0 mm	740	50/100
14031252510	25 x 2.5 mm	750	25/50
14031263010	26 x 3.0 mm	750	25/50
14031323010	32 x 3.0 mm	750	25/50
DUO			
14032162010	16 x 2.0 mm	780	50/100



Other colours and diameters are available under request

Product range

EQUAL COUPLING - PPSU			
Reference	Diameter (mm)	Uts./Bag	Uts./Box
E0270P160016	16 - 16	25	300
E0270P200020	20 - 20	25	300
E0270P250025	25 - 25	15	180
E0270P260026	26 - 26	15	180
E0270P320032	32 - 32	10	120



EQUAL COUPLING - BRASS*			
Reference	Diameter (mm)	Uts./Bag	Uts./Box
E0270B160016	16 - 16	25	300
E0270B200020	20 - 20	25	300
E0270B250025	25 - 25	15	180
E0270B260026	26 - 26	15	180
E0270B320032	32 - 32	10	120



REDUCED COUPLING - PPSU			
Reference	Diameter (mm)	Uts./Bag	Uts./Box
E0240P200016	20 - 16	25	300
E0240P250016	25 - 16	15	180
E0240P250020	25 - 20	15	180
E0240P260016	26 - 16	15	180
E0240P260020	26 - 20	15	180
E0240P320025	32 - 25	10	120
E0240P320026	32 - 26	10	120



REDUCED COUPLING - BRASS*			
Reference	Diameter (mm)	Uts./Bag	Uts./Box
E0243B200016	20 - 16	25	300
E0243B250016	25 - 16	15	180
E0243B260016	26 - 16	15	180
E0243B250020	25 - 20	15	180
E0243B260020	26 - 20	15	180
E0243B320025	32 - 25	10	120
E0243B320026	32 - 26	10	120



*These accessories will be available soon

Product range

90° ELBOW - PPSU			
Reference	Diameter (mm)	Uts./Bag	Uts./Box
E0090P160016	16 - 16	20	240
E0090P200020	20 - 20	20	240
E0090P250025	25 - 25	8	96
E0090P260026	26 - 26	8	96
E0090P320032	32 - 32	6	72



90° ELBOW - BRASS*			
Reference	Diameter (mm)	Uts./Bag	Uts./Box
E0090B160016	16-16	20	240
E0090B200020	20-20	20	240
E0090B250025	25-25	8	96
E0090B260026	26-26	8	96
E0090B320032	32-32	6	72



EQUAL TEE - PPSU			
Reference	Diameter (mm)	Uts./Bag	Uts./Box
E0130P161616	16 - 16 - 16	15	180
E0130P202020	20 - 20 - 20	15	180
E0130P252525	25 - 25 - 25	8	96
E0130P262626	26 - 26 - 26	8	96
E0130P323232	32 - 32 - 32	5	60



EQUAL TEE - BRASS*			
Reference	Diameter (mm)	Uts./Bag	Uts./Box
E0130B161616	16 - 16 - 16	15	180
E0130B202020	20 - 20 - 20	15	180
E0130B252525	25 - 25 - 25	8	96
E0130B262626	26 - 26 - 26	8	96
E0130B323232	32 - 32 - 32	5	60



*These accessories will be available soon

Product range

REDUCED TEE - PPSU			
Reference	Diameter (mm)	Uts./Bag	Uts./Box
E130RP162016	16 - 20 - 16	15	180
E130RP201616	20 - 16 - 16	15	180
E130RP201620	20 - 16 - 20	15	180
E130RP202016	20 - 20 - 16	15	180
E130RP251616	25 - 16 - 16	10	120
E130RP251620	25 - 16 - 20	10	120
E130RP251625	25 - 16 - 25	10	120
E130RP252016	25 - 20 - 16	10	120
E130RP252020	25 - 20 - 20	10	120
E130RP252025	25 - 20 - 25	10	120
E130RP252516	25 - 25 - 16	10	120
E130RP252520	25 - 25 - 20	10	120
E130RP253225	25 - 32 - 25*	10	120
E130RP261616	26 - 16 - 16	10	120
E130RP261620	26 - 16 - 20	10	120
E130RP261626	26 - 16 - 26	10	120
E130RP262016	26 - 20 - 16	10	120
E130RP262020	26 - 20 - 20	10	120
E130RP262026	26 - 20 - 26	10	120
E130RP262616	26 - 26 - 16	10	120
E130RP262620	26 - 26 - 20	10	120
E130RP263226	26 - 32 - 26*	10	120
E130RP321632	32 - 16 - 32	8	96
E130RP322032	32 - 20 - 32	8	96
E130RP322525	32 - 25 - 25	8	96
E130RP322532	32 - 25 - 32	8	96
E130RP322626	32 - 26 - 26	8	96
E130RP322632	32 - 26 - 32	8	96



*These accessories will be available soon

Product range

REDUCED TEE - BRASS*

Reference	Diameter (mm)	Uts./Bag	Uts./Box
E130RB162016	16 - 20 - 16	15	180
E130RB201616	20 - 16 - 16	15	180
E130RB201620	20 - 16 - 20	15	180
E130RB251620	25 - 16 - 20	15	180
E130RB261620	26 - 16 - 20	10	120
E130RB202016	20 - 20 - 16	10	120
E130RB252025	25 - 20 - 25	10	120
E130RB251625	25 - 16 - 25	10	120
E130RB252020	25 - 20 - 20	10	120
E130RB252520	25 - 25 - 20	10	120
E130RB253225	25 - 32 - 25	10	120
E130RB262020	26 - 20 - 20	10	120
E130RB262026	26 - 20 - 26	10	120
E130RB263226	26 - 32 - 26	10	120
E130RB262620	26 - 26 - 20	10	120
E130RB261626	26 - 16 - 26	10	120
E130RB322532	32 - 25 - 32	8	96
E130RB322032	32 - 20 - 32	8	96
E130RB322632	32 - 26 - 32	8	96



END CAP - PPSU

Reference	Diameter (mm)	Uts./Bag	Uts./Box
E0301P160000	16	30	360



MALE CONNECTOR - BRASS

Reference	Diameter (mm)	Uts./Bag	Uts./Box
E243GB1600R2	16 - 1/2"	25	300
E243GB2000R2	20 - 1/2"	20	240
E243GB2000R3	20 - 3/4"	20	240
E243GB2500R2	25 - 1/2"	20	240
E243GB2500R3	25 - 3/4"	20	240
E243GB2500R4	25 - 1"	10	120
E243GB2600R2	26 - 1/2"	20	240
E243GB2600R3	26 - 3/4"	20	240
E243GB2600R4	26 - 1"	10	120
E243GB3200R4	32 - 1"	10	120



*These accessories will be available soon

Product range

FEMALE CONNECTOR - BRASS

Reference	Diameter (mm)	Uts./Bag	Uts./Box
E270GB1600R2	16 - 1/2"	25	300
E270GB2000R2	20 - 1/2"	20	240
E270GB2000R3	20 - 3/4"	20	240
E270GB2500R3	25 - 3/4"	20	240
E270GB2600R3	26 - 3/4"	20	240
E270GB3200R4	32 - 1"	10	120



FEMALE ADAPTER WITH SWIVEL NUT - BRASS

Reference	Diameter (mm)	Uts./Bag	Uts./Box
E359GB1600R2	16 - 1/2"	25	300
E359GB2000R2	20 - 1/2"	25	300
E359GB2000R3	20 - 3/4"	25	300
E359GB2500R3	25 - 3/4"	20	240
E359GB2600R3	26 - 3/4"	20	240
E359GB3200R4	32 - 1"	15	180



ADAPTER FOR COPPER - BRASS

Reference	Diameter (mm)	Uts./Bag	Uts./Box
E873MB160012	16 MTL-12 Copper	20	240
E873MB160015	16 MTL-15 Copper	20	240
E873MB160018	16 MTL-18 Copper	20	240
E873MB200018	20 MTL-18 Copper	20	240
E873MB200020	20 MTL-20 Copper	20	240



MALE ELBOW - BRASS

Reference	Diameter (mm)	Uts./Bag	Uts./Box
E092GB1600R2	16 - 1/2"	20	240
E092GB2000R2	20 - 1/2"	20	240
E092GB2000R3	20 - 3/4"	20	240
E092GB2500R3	25 - 3/4"	15	180
E092GB2600R3	26 - 3/4"	15	180



FEMALE ELBOW - BRASS

Reference	Diameter (mm)	Uts./Bag	Uts./Box
E090GB1600R2	16 - 1/2"	20	240
E090GB2000R2	20 - 1/2"	20	240
E090GB2000R3	20 - 3/4"	20	240
E090GB2500R3	25 - 3/4"	10	120
E090GB2600R3	26 - 3/4"	10	120
E090GB3200R4	32 - 1"	10	120



Product range

FEMALE ELBOW WITH FIXING BASE - BRASS

Reference	Diameter (mm)	Uts./Bag	Uts./Box
E473GB1600R2	16 - 1/2"	15	180
E473GB2000R2	20 - 1/2"	10	120
E473GB2000R3	20 - 3/4"	10	120
E473GB2500R3	25 - 3/4"	10	120
E473GB2600R3	26 - 3/4"	10	120



HIGH ELBOW WITH FIXING BASE - BRASS

Reference	Diameter (mm)	Uts./Bag	Uts./Box
E471GB1600R2	16 - 1/2"	15	180
E471GB2000R2	20 - 1/2"	10	120



FEMALE ELBOW WITH SWIVEL NUT - BRASS

Reference	Diameter (mm)	Uts./Bag	Uts./Box
E096GB1600R2	16 - 1/2"	20	240
E096GB2000R2	20 - 1/2"	15	180



FEMALE TEE - BRASS

Reference	Diameter (mm)	Uts./Bag	Uts./Box
E130GB16R216	16 - 1/2" - 16	15	180
E130GB20R220	20 - 1/2" - 20	15	180
E130GB20R320	20 - 3/4" - 20	10	120
E130GB25R325	25 - 3/4" - 25	8	96
E130GB26R326	26 - 3/4" - 26	8	96



Tools

19 KN BATTERY-POWERED PRESSING TOOL - 2 BATTERIES, CHARGER, AND CARRYING CASE

Reference	Diameter (mm)	Uts./Bag	Uts./Box
T33050160032	TH profile - Diameters:16/20/26/32mm	1	-
T33051160032	U profile - Diameters:16/20/25/32mm	1	-



COMPACT PRESS JAWS U PROFILE

Reference	Diameter (mm)	Uts./Bag	Uts./Box
T32053160000	16	1	-
T32053200000	20	1	-
T32053250000	25	1	-
T32053320000	32	1	-



Tools

COMPACT PRESS JAWS TH PROFILE

Reference	Diameter (mm)	Uts/Bag	Uts/Box
T32052160000	16	1	-
T32052200000	20	1	-
T32052250000	25	1	-
T32052260000	26	1	-
T32052320000	32	1	-



BATTERY

Reference	Description	Uts/Bag	Uts/Box
T31055000000	18V LI-ion 2.0 Ah	1	-



BATTERY CHARGER

Reference	Description	Uts/Bag	Uts/Box
T31056000000	AC 100V-240V 50-60 Hz	1	-



PIPE CUTTER

Reference	Diameter (mm)	Uts/Bag	Uts/Box
T52070160032	16 - 20 - 25 - 32	1	-



PIPE BEVELER

Reference	Diameter (mm)	Uts/Bag	Uts/Box
T53071162025	16 - 20 - 25	1	-
T53071162026	16 - 20 - 26	1	-



PIPE BEVELER

Reference	Diameter (mm)	Uts/Bag	Uts/Box
T52072320000	32	1	-



NEXXUS PUSH-FIT™
PUSH-FIT SYSTEM



PIPEX®
THINK FLEXIBLE

Push-Fit System



Nexus – Push-Fit System

Nexus is an innovative Push-Fit connection system designed to provide maximum efficiency and safety in plumbing and heating installations. It is compatible with PE-Xa, PE-Xa EVOH 5-layer, PE-Xa UV Black, PE-RT, PE-RT EVOH 5-layer, and multilayer pipes. Its components, made of PPSU (Polyphenylsulfone), ensure exceptional resistance to oxidation and corrosion, as well as to key chemical compounds, cement, plaster, and lime.

Nexus guarantees a quick installation without the need for special tools, offering a secure and leak-tight connection. Its optimized design reduces assembly time and enhances system reliability, providing a versatile solution for both residential and commercial applications.

Advantages of the Nexus system

- **Time and Stock Savings** – Installation up to 70% faster and up to 50% reduction in fittings thanks to its compatibility with multilayer, PE-Xa, and PE-RT pipes.
- **Maximum Resistance** – Withstands temperatures up to 95°C and pressures up to 10 bar, ensuring safe and long-lasting performance.
- **Long Service Life** – Designed to last over 50 years under optimal usage conditions.
- **Lightweight and Compact** – Minimal volume design allows for embedding in various types of partition walls and facilitates transport and installation.
- **Safety and Health** – Certified materials for potable water, free of odor, taste, and toxicity, with AENOR certification according to UNE-EN ISO 15875 (PE-Xa) and UNE-EN ISO 21003 (multilayer) standards.
- **Commitment** - Up to 10 years warranty on the entire system (pipe + fittings)
- **Noise-Free** – PPSU material prevents noise caused by water flow due to its low roughness coefficient, reducing water hammer effects by 2 to 3 times compared to traditional brass or copper systems.

Certified System



Components of the Nexus System

The **Nexus** system is AENOR-certified under UNE-EN ISO 15875 for PE-Xa pipes and UNE-EN ISO 21003 for multilayer pipes. It ensures operation within the specified pressure and temperature parameters and guarantees a minimum durability of 50 years.

Nexus system fittings are made entirely of PPSU and designed for PE-Xa, PE-RT, and multilayer pipes, according to the applications defined in the corresponding standards.

Service conditions according to UNE-EN ISO 21003 / UNE-EN ISO 15875 / UNE-EN ISO 22391

Class and Application	Design Temperature TD	TD Time (years)	Tmax	Tmax Time (years)	Tmal	Tmal Time (hours)
Class 1 Hot water supply (60°C)	60 °C	49	80	1	95	100
Class 2 Hot water supply (70°C)	70 °C	49	80	1	95	100
Class 4 Underfloor heating and low-temperature radiators	20°C followed by 40°C followed by 60°C	2.5 followed by 20 followed by 25	70	2.5	100	100
Class 5 High-temperature radiators	20°C followed by 60°C followed by 80°C	14 followed by 25 followed by 10	90	1	100	100

TD: Design Temperature

Tmax: Maximum Temperature

Tmal: Malfunction Temperature

(*) If these conditions are exceeded, the warranty will be void.

Each country can choose between Class 1 or 2 according to its national regulations.

When multiple design temperatures are listed for a class, the durations must be added together (for example, the 50-year temperature profile for Class 5 is: 14 years at 20°C, followed by 25 years at 60°C, 10 years at 80°C, 1 year at 90°C, and 100 hours at 100°C).

According to UNE-EN ISO 15875, UNE-EN ISO 22391 and UNE-EN ISO 21003, all heating installations must use only water or adequately treated water as the circulating fluid, ensuring compatibility with the piping system.

These standards do not apply to TD, Tmax, and Tmal values higher than those indicated in the table.



Pipes

PE-Xa pipe - PE-Xa EVOH pipe 5 layers

Dimensions

16x1.8	16x2.0	20x1.9	20x2.0	25x2.3	25x2.5	32x2.9	32x3.0
--------	--------	--------	--------	--------	--------	--------	--------

PE-Xa → See technical data on page: 7

PE-Xa EVOH → See technical data on page: 8

PE-Xa UV Black pipe - Protection

Dimensions

16x2.0	20x2.0	25x2.3	32x2.9
--------	--------	--------	--------

See technical data on page: 9

PE-RT pipe - PE-RT EVOH pipe 5 layers

Dimensions

16x1.8	16x2.0	20x1.9	20x2.0	25x2.3	32x2.9
--------	--------	--------	--------	--------	--------

PE-RT → See technical data on page: 15

PE-RT EVOH → See technical data on page: 16

PE-RT/AL/PE-RT - Multilayer pipe

Dimensions

16x2.0	20x2.0	25x2.5	32x3.0
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See technical data on page: 18

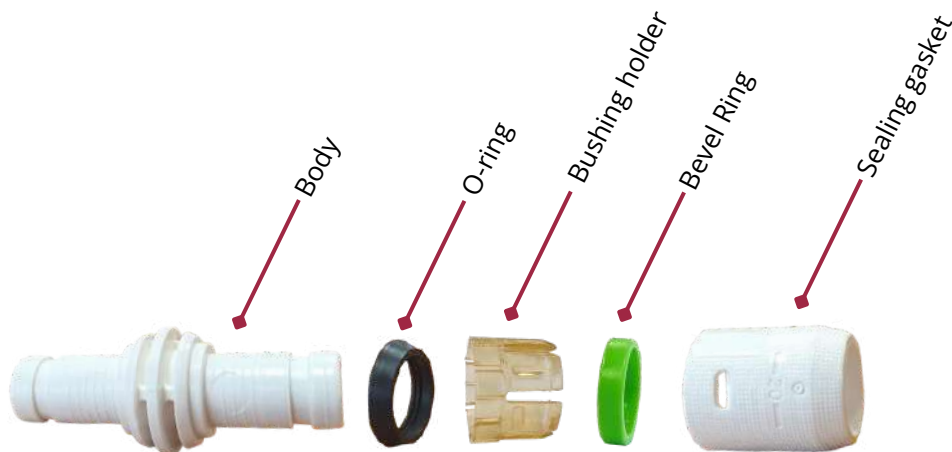




Nexus System Accessories

The **Nexus** system uses polyphenylsulfone (**PPSU**) plastic for the fitting bodies and the highest quality European brass (**CW617N**) for the threaded connections, complying with the health legislation of the most demanding European Union countries.

Quick-connect fittings available in 16, 20, 25, and 32 mm diameters designed for professionals seeking efficiency and safety in plumbing, radiant heating, heating (high and low temperature), air conditioning, compressed air, and industrial installations.



- Body: **PPSU** - Brass **CW617N**
- O-ring: **EPDM** Peróxide 70
- Bushing holder: **PPSU**
- Bevel ring: **POM** (Polyacetal)
- Sealing gasket: **PPSU**

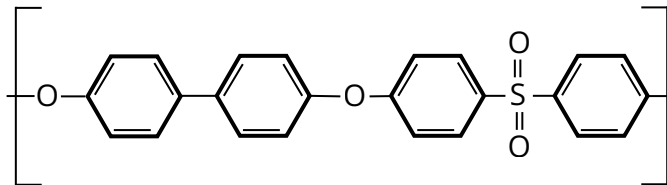
Technical Properties

Maximum temperature	140 °C
Minimum temperature	-40 °C
Maximum pressure at 95 °C	10 Bar
Maximum pressure at 20 °C	100 Bar

Thread: BSP under standard UNE-EN ISO 228-1
Male thread: external anti-curl fastening system.

PPSU

PPSU, sometimes called PPSF, is a high-performance thermoplastic with excellent mechanical, thermal, and chemical characteristics.



- Its low ionic impurities make it suitable for applications where a high level of purity is required.
- It has a high strength-to-weight ratio while maintaining dimensional stability under varying temperature conditions.
- **PPSU** is an amorphous polymer with a low moisture absorption rate and a high glass transition temperature.
- It can withstand continuous exposure to heat and still absorb tremendous impact without cracking or breaking.
- High stiffness over a wide temperature range, high dimensional stability, excellent resistance to high energy radiation (X-rays and gamma rays).
- It is inherently flame retardant and offers exceptional resistance to alkalis and other chemicals.
- **PPSU** polymer is more resistant to sterilisation by superheated steam, detergents and disinfectants than other polymers in its class.

Brass - CW617N

- Brass is an alloy of copper and zinc. The proportions of copper and zinc can vary to create a variety of brasses with different properties.
- The **CW617N** type is the European brass, complying with the UNE-EN ISO 12164 /12165 standard.
- The material is mainly composed of 59 % copper, 39 % zinc, and 2 % lead, finely dispersed in its microstructure.
- It has an excellent combination of hot working and machining properties and is mainly used for the production of more complex hot-pressed components.
- Corrosion resistant and capable of withstanding a pressure of 10 bar, it is ideal for use with potable water.



Composition	Cu	Al	Fe	Ni	Pb	Sn
Brass CW617N	57.0 - 59.0	Max. 0.05	Max. 0.30*	Max. 0.1*	1.6 - 2.2*	Max. 0.30

*Low lead and nickel content in accordance with European Directive 98/83/EC and German Standard DIN 50930.

O-ring (EPDM - Peroxide 70)

- **EPDM** is a copolymer of ethylene and propylene, and also an ethylene terpolymer.
- Ethylene propylene rubber has excellent resistance to ozone, sunlight and weathering, and has very good low temperature flexibility, good chemical resistance (many dilute acids and alkalis, polar solvents) and good electrical insulation properties.
- Peroxide cured **EPDM** compounds have superior chemical and thermal resistance to sulphur cured compounds.
- Peroxide cured **EPDM** has better heat resistance and lower compression set, with high resistance to prolonged use.
- Peroxide cured **EPDM** can withstand temperatures up to 150 °C.

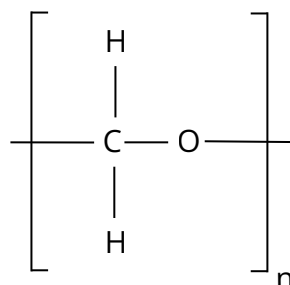


Technical Properties

Property	Value
Hardness	70 Shore A
Density	~1.2 g/cm ³
Tensile strength	≥ 10 MPa
Elongation at break	≥ 250%
Compression set (70h at 150 °C)	≤ 25%
Maximum operating temperature	150 °C

Bevel ring (POM)

- **POM** plastic (polyoxymethylene acetal) is a semi-crystalline thermoplastic with high mechanical strength and rigidity.
- It has good sliding characteristics and excellent wear resistance, as well as low moisture absorption.



- Excellent dimensional stability and outstanding fatigue strength, as well as easy machinability.
- Increases resistance to stress and compression.

Brass Adapters (CW617N)

- Brass is an alloy of copper and zinc. The proportions of copper and zinc can vary to create a variety of brasses with different properties.
- The **CW617N** type is the European brass, complying with the UNE-EN ISO 12164 /12165 standard.
- The material is mainly composed of 59 % copper, 39 % zinc, and 2 % lead, finely dispersed in its microstructure.
- It has an excellent combination of hot working and machining properties and is mainly used for the production of more complex hot pressed components.
- Corrosion resistant and capable of withstanding a pressure of 10 bar, it is ideal for use with potable water.

		16 - 1/2"			16 - 1/2"
		16 - 3/4"			16 - 3/4"
		20 - 1/2"			20 - 1/2"
		20 - 3/4"			20 - 3/4"
		25 - 3/4"			25 - 3/4"
	Female Adapter	25 - 1"			Male Adapter
		32 - 1"			32 - 1"
		16 - 1/2"			16 - 1/4"
		20 - 3/4"			
		25 - 1"			
Mobile Nut Adapter			Pressure Gauge-T Adapter		
		16 - CU15			16 - 16
		16 - Cu18			20 - 20
		20 - Cu22			25 - 25
Copper Welded Adapter				Pipe Adapter	
		25 - 16			16 - 16
		25 - 20			20 - 20
		32 - 20			25 - 25
Reduced Coupling Adapter				Elbow Adapter	

Manifold / Distributor

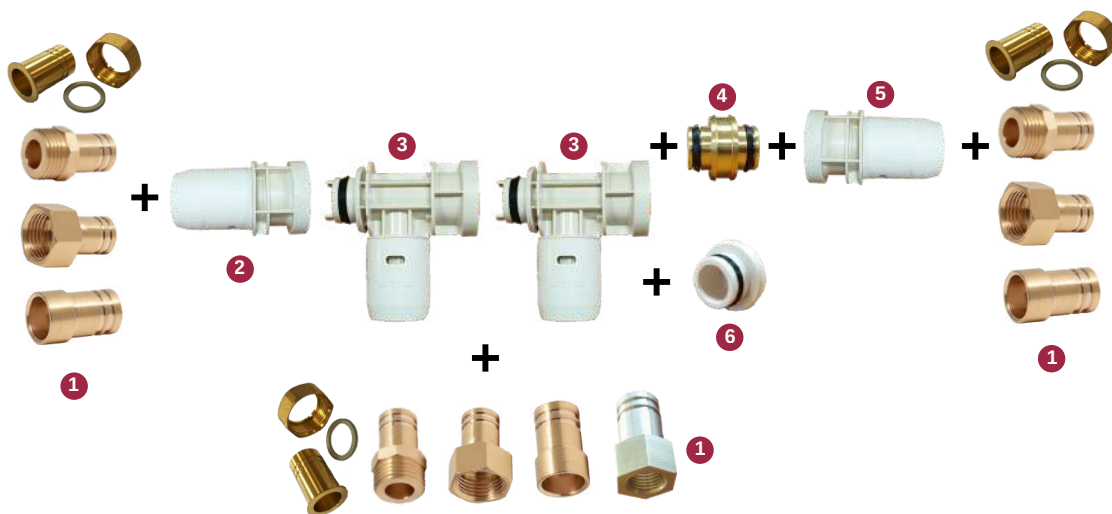
- Manufactured entirely from **PPSU** and 360° adjustable.
- From 2 to 12 outlets.
- Inlet diameters: 20/25 mm.
- Outlet diameters: 16/20 mm.
- Both inlet and outlet diameters, as well as their distribution, can be customized according to customer preferences.
- Option for an end cap or a 20/25 mm outlet, converting it into a distributor.
- Distance between outlets: 48 mm.
- Distance between outlets with an extender: 102 mm.
- Option for a fitting both at the inlet connection and at the various outlets using adapters.



Manifold / Distributor advantages

- Push-Fit **Nexus** Connection System.
- Can be installed on walls or ceilings.
- 360° adjustable.
- Compatible with PE-Xa, multilayer, and PE-RT pipes.
- All inlets and outlets can be fitted with adapters.
- Endless combinations tailored to customer needs.
- Reduces time and stock requirements.
- Minimal space required.
- Corrosion-resistant.
- Lightweight.
- Noise-free.
- Long service life.

Manifold / Distributor components



- 1 Adapter
- 2 Inlet module Ø20/25 mm
- 3 Outlet module Ø16/20 mm

- 4 Distributor adapter
- 5 Inlet module Ø20/25 mm
- 6 Outlet module Ø16/20 mm

Product range



PE-Xa		
Reference	Diameter (mm)	Coil (m)
11011618000	16 x 1.8	50/100/200/500/600
11011620000	16 x 2.0	50/100/200/500/600
11012019000	20 x 1.9	50/100/200/500/600
11012020000	20 x 2.0	50/100/200/500/600
11012523000	25 x 2.3	50/100
11012525000	25 x 2.5	50/100
11013229000	32 x 2.9	50/100
11013230000	32 x 3.0	50/100



PE-Xa EVOH - 5 LAYERS		
Reference	Diameter (mm)	Coil (m)
11051618000	16 x 1.8	50/100/200/500/600
11051620000	16 x 2.0	50/100/200/500/600
11052019000	20 x 1.9	50/100/200/500/600
11052020000	20 x 2.0	50/100/200/500/600
11052523000	25 x 2.3	50/100
11052525000	25 x 2.5	50/100
11053229000	32 x 2.9	50/100
11053230000	32 x 3.0	50/100



PE-Xa UV BLACK PROTECTION		
Reference	Diameter (mm)	Coil (m)
11011618090	16 x 1.8	50/100/200/500/600
11011620090	16 x 2.0	50/100/200/500/600
11012019090	20 x 1.9	50/100/200/500/600
11012020090	20 x 2.0	50/100/200/500/600
11012523090	25 x 2.3	50/100
11012525090	25 x 2.5	50/100
11013229090	32 x 2.9	50/100
11013230090	32 x 3.0	50/100



PE-RT		
Reference	Diameter (mm)	Coil (m)
12011618000	16 x 1.8	50/100/200/500/600
12011620000	16 x 2.0	50/100/200/500/600
12012019000	20 x 1.9	50/100/200/500/600
12012020000	20 x 2.0	50/100/200/500/600
12012523000	25 x 2.3	50/100
12013229000	32 x 2.9	50/100

Other colours and dimensions available on request.

Product range



PE-RT EVOH - 5 LAYERS		
Reference	Diameter (mm)	Coil (m)
12051618000	16 x 1.8	50/100/200/500/600
12051620000	16 x 2.0	50/100/200/500/600
12052019000	20 x 1.9	50/100/200/500/600
12052020000	20 x 2.0	50/100/200/500/600
12052523000	25 x 2.3	50/100
12053229000	32 x 2.9	50/100



PE-RT/AL/PE-RT		
Reference	Diameter (mm)	Coil (m)
13021620010	16 x 2.0	50/100/200/500/600
13022020010	20 x 2.0	50/100/200/500/600
13022525010	25 x 2.5	50/100
13023230010	32 x 3.0	50/100

Other colours and dimensions available on request.



EQUAL COUPLING - PPSU			
Reference	Diameter (mm)	Uts./Small box	Uts./Large box
H0270P160016	16 - 16	30	360
H0270P200020	20 - 20	20	240
H0270P250025	25 - 25	12	144
H0270P320032	32 - 32	6	72



REDUCING COUPLING - PPSU			
Reference	Diameter (mm)	Uts./Small box	Uts./Large box
H0243P200016	20 - 16	20	240
H0243P250016	25 - 16	15	180
H0243P250020	25 - 20	15	180
H0243P320025	32 - 25	8	96



REDUCING COUPLING - BRASS			
Reference	Diameter (mm)	Uts./Small box	Uts./Large box
H0243B320016	32 - 16	8	96
H0243B320020	32 - 20	8	96



90° ELBOW - PPSU			
Reference	Diameter (mm)	Uts./Small box	Uts./Large box
H0090P160016	16 - 16	25	300
H0090P200020	20 - 20	18	216
H0090P250025	25 - 25	8	96
H0090P320032	32 - 32	5	60

Product range



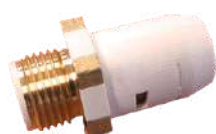
EQUAL TEE - PPSU			
Reference	Diameter (mm)	Uts./Small box	Uts./Large box
H0130P161616	16 - 16 - 16	12	96
H0130P202020	20 - 20 - 20	8	96
H0130P252525	25 - 25 - 25	5	60
H0130P323232	32 - 32 - 32	3	36



REDUCING TEE - PPSU			
Reference	Diameter (mm)	Uts./Small box	Uts./Large box
H130RP162016	16 - 20 - 16	12	144
H130RP201616	20 - 16 - 16	12	144
H130RP201620	20 - 16 - 20	10	120
H130RP202016	20 - 20 - 16	10	120
H130RP251625	25 - 16 - 25	8	96
H130RP252020	25 - 20 - 20	6	72
H130RP252025	25 - 20 - 25	6	72
H130RP252520	25 - 25 - 20	6	72
H130RP322525	32 - 25 - 25	4	48



REDUCING TEE - BRASS			
Reference	Diameter (mm)	Uts./Small box	Uts./Large box
H130RB202516	20 - 25 - 16	6	72
H130RB202520	20 - 25 - 20	6	72
H130RB251616	25 - 16 - 16	6	72
H130RB251620	25 - 16 - 20	6	72
H130RB252016	25 - 20 - 16	6	72
H130RB252516	25 - 25 - 16	6	72
H130RB321632	32 - 16 - 32	4	48
H130RB322025	32 - 20 - 25	4	48
H130RB322032	32 - 20 - 32	4	48
H130RB322520	32 - 25 - 20	4	48



MALE CONNECTOR - PPSU			
Reference	Diameter (mm)	Uts./Small box	Uts./Large box
H243GP1600R2	16 - 1/2"	30	360
H243GP2000R2	20 - 1/2"	25	300
H243GP2000R3	20 - 3/4"	20	240
H243GP2500R3	25 - 3/4"	15	180
H243GP3200R4	32 - 1"	8	96

Product range



MALE CONNECTOR - BRASS			
Reference	Diameter (mm)	Uts./Small box	Uts./Large box
H243GB1600R1	16 - 3/8"	30	360
H243GB1600R2	16 - 1/2"	30	360
H243GB2000R2	20 - 1/2"	25	300



FEMALE CONNECTOR - PPSU			
Reference	Diameter (mm)	Uts./Small box	Uts./Large box
H270GP1600R2	16 - 1/2"	20	240
H270GP2000R2	20 - 1/2"	15	180
H270GP2000R3	20 - 3/4"	15	180
H270GP2500R3	25 - 3/4"	10	120



FEMALE CONNECTOR - BRASS			
Reference	Diameter (mm)	Uts./Small box	Uts./Large box
H270GB1600R1	16 - 3/8"	20	240
H270GB1600R2	16 - 1/2"	20	240
H270GB2000R2	20 - 1/2"	15	180



FEMALE CONNECTOR WITH SWIVEL NUT - PPSU			
Reference	Diameter (mm)	Uts./Small box	Uts./Large box
H359GP1600R2	16 - 1/2"	20	240
H359GP2000R2	20 - 1/2"	20	240
H359GP2000R3	20 - 3/4"	15	180
H359GP2500R3	25 - 3/4"	12	144
H359GP2500R4	25 - 1"	8	96
H359GP3200R4	32 - 1"	6	72

*Includes flat seal



MALE ELBOW - PPSU			
Reference	Diameter (mm)	Uts./Small box	Uts./Large box
H092GP1600R2	16 - 1/2"	20	240
H092GP2000R2	20 - 1/2"	20	240
H092GP2500R3	25 - 3/4"	10	120



FEMALE ELBOW - PPSU			
Reference	Diameter (mm)	Uts./Small box	Uts./Large box
H090GP1600R2	16 - 1/2"	20	240
H090GP2000R2	20 - 1/2"	20	240
H090GP2000R3	20 - 3/4"	10	120
H090GP2500R3	25 - 3/4"	8	96

Product range



FEMALE ELBOW - BRASS			
Reference	Diameter (mm)	Uts./Small box	Uts./Large box
H090GB3200R4	32 - 1"	6	72



FEMALE ELBOW WITH FIXING BASE - PPSU			
Reference	Diameter (mm)	Uts./Small box	Uts./Large box
H473GP1600R2	16 - 1/2"	15	180
H473GP2000R2	20 - 1/2"	12	144



FEMALE ELBOW WITH FIXING BASE - BRASS			
Reference	Diameter (mm)	Uts./Small box	Uts./Large box
H473GB2500R3	25 - 3/4"	10	120



DOUBLE U ELBOW - BRASS			
Reference	Diameter (mm)	Uts./Small box	Uts./Large box
H472GB1600R2	16 - 1/2" - 16	4	48
H472GB2000R2	20 - 1/2" - 20	4	48



FEMALE ELBOW WITH SWIVEL NUT - PPSU			
Reference	Diameter (mm)	Uts./Small box	Uts./Large box
H096GP1600R2	16 - 1/2"	15	180
H096GP2000R3	20 - 3/4"	12	144
H096GP2500R4	25 - 1"	7	84

*Includes flat seal



RADIATOR CONNECTOR - PPSU			
Reference	Diameter (mm)	Uts./Bag	Uts./Large box
H090SP160015	16 - 15 / 300	1	-
H090LP160015	16 - 15 / 750	1	-



FEMALE TEE - PPSU			
Reference	Diameter (mm)	Uts./Small box	Uts./Large box
H130GP16R216	16 - 1/2" - 16	15	180
H130GP20R220	20 - 1/2" - 20	10	120

Product range



FEMALE TEE WITH SWIVEL NUT - PPSU

Reference	Diameter (mm)	Uts./Small box	Uts./Large box
H133GP16R216	16 - 1/2" - 16	10	120
H133GP16R316	16 - 3/4" - 16	10	120
H133GP20R220	20 - 1/2" - 20	7	84
H133GP20R320	20 - 3/4" - 20	7	84
H133GP25R225	25 - 1/2" - 25	5	60
H133GP25R325	25 - 3/4" - 25	5	60
H133GP25R425	25 - 1" - 25	4	48

*Includes flat seal



RADIATOR EQUAL TEE CONNECTOR - PPSU

Reference	Diameter (mm)	Uts./Bag	Uts./Large box
H130SP161516	16 - 15 - 16 / 300	1	-
H130SP201516	20 - 15 - 16 / 300	1	-
H130SP201520	20 - 15 - 20 / 300	1	-
H130SP251525	25 - 15 - 25 / 300	1	-
H130LP161516	16 - 15 - 16 / 750	1	-
H130LP201516	20 - 15 - 16 / 750	1	-
H130LP201520	20 - 15 - 20 / 750	1	-
H130LP251525	25 - 15 - 25 / 750	1	-



PIPE/PIPE ADAPTER - BRASS

Reference	Diameter (mm)	Uts./Small box	Uts./Large box
H0270B160016	16 - 16	30	360
H0270B200020	20 - 20	20	240
H0270B250025	25 - 25	20	240
H0270B320032	32 - 32	6	72



REDUCING ADAPTER - BRASS

Reference	Diameter (mm)	Uts./Small box	Uts./Large box
HA243B250016	25 - 16	25	300
HA243B250020	25 - 20	20	240
HA243B320020	32 - 20	15	180



90° ELBOW ADAPTER - BRASS

Reference	Diameter (mm)	Uts./Small box	Uts./Large box
H0090B160016	16 - 16	25	300
H0090B200020	20 - 20	18	216
H0090B250025	25 - 25	8	96
H0090B320032	32 - 32	5	60

Product range



MALE ADAPTER - BRASS			
Reference	Diameter (mm)	Uts./Small box	Uts./Large box
HA43GB1600R2	16 - 1/2"	30	360
HA43GB1600R3	16 - 3/4"	30	360
HA43GB2000R2	20 - 1/2"	30	360
HA43GB2000R3	20 - 3/4"	30	360
HA43GB2500R3	25 - 3/4"	30	360
HA43GB2500R4	25 - 1"	20	240
HA43GB3200R4	32 - 1"	20	240



FEMALE ADAPTER - BRASS			
Reference	Diameter (mm)	Uts./Small box	Uts./Large box
HA70GB1600R2	16 - 1/2"	30	360
HA70GB1600R3	16 - 3/4"	30	360
HA70GB2000R2	20 - 1/2"	30	360
HA70GB2000R3	20 - 3/4"	30	360
HA70GB2500R3	25 - 3/4"	25	300
HA70GB2500R4	25 - 1"	20	240
HA70GB3200R4	32 - 1"	15	180



FEMALE ADAPTER WITH SWIVEL NUT - BRASS			
Referencia	Diámetro (mm)	Uds./C. Peq.	Uds./C. Gde.
H359GB1600R2	16 - 1/2"	30	360
H359GB2000R3	20 - 3/4"	30	360
H359GB2500R4	25 - 1"	20	240



ADAPTER FOR COPPER - BRASS			
Reference	Diameter (mm)	Uts./Small box	Uts./Large box
HA873B160015	16 - Cu15	30	360
HA873B160018	16 - Cu18	30	360
HA873B200022	20 - Cu22	20	240



PRESURE GAUGE ADAPTER - BRASS			
Referencia	Diámetro (mm)	Uds./C. Peq.	Uds./C. Gde.
H270MB1600R8	16 - 1/4"	30	360

Product range



DISTRIBUTOR - PPSU			
Reference	Diameter (mm)	Uts./Bag	Uts./Large box
H496DP251625	25/16-16/ 25	1	-
H6534P252016	25/20-16-16-16/ 25	1	-
H6534P202016	20/20-16-16-16/ 20	1	-

*Consult for other arrangements



MANIFOLD - PPSU			
Reference	Diameter (mm)	Uts./Bag	Uts./Large box
H496DP251600	25 / 16 - 16	1	-
H497DP251600	25 / 16 - 16 - 16	1	-
H497DP252016	25 / 20 - 16 - 16	1	-
H498DP251600	25 / 16 - 16 - 16 - 16	1	-
H499DP251600	25 / 16 - 16 - 16 - 16 - 16	1	-
H498DP252016	25 / 20 - 16 - 16 - 16	1	-
H499DP252016	25 / 20 - 16 - 16 - 16 - 16	1	-
H496DP252000	25 / 20 - 20	1	-
H497DP252000	25 / 20 - 20 - 20	1	-
H498DP252000	25 / 20 - 20 - 20 - 20	1	-
H499DP252000	25 / 20 - 20 - 20 - 20 - 20	1	-
H497DP201600	20 / 16 - 16 - 16	1	-
H498DP201600	20 / 16 - 16 - 16 - 16	1	-
H499DP201600	20 / 16 - 16 - 16 - 16 - 16	1	-
H498DP202000	20 / 20 - 20 - 20 - 20	1	-
H496DP252016	25 / 20 - 16	1	-
H498DP202016	20 / 20 - 16 - 16 - 16	1	-
H497DP202016	20 / 20 - 16 - 16	1	-
H499DP202016	20 / 20 - 16 - 16 - 16 - 16	1	-
H496DP202016	20 / 20 - 16	1	-
H496DP201600	20 / 16 - 16	1	-
H494DP252000	25 / 20 - 20 - 20 - 20 - 20 - 20	1	-

*Consult for other arrangements



SURFACE BALL VALVE - BRASS			
Reference	Diameter (mm)	Uts./Small box	Uts./Large box
H728VB160016	16 - 16	6	72
H728VB200020	20 - 20	5	60
H728VB250025	25 - 25	4	48
H728VB320032	32 - 32	3	36

Product range



BUILT-IN BALL VALVE - BRASS			
Reference	Diameter (mm)	Uts./Small box	Uts./Large box
H727VB160016	16 - 16	6	72
H727VB200020	20 - 20	5	60
H727VB250025	25 - 25	4	48
H727VB320032	32 - 32	3	36



BUILT-IN IN U BALL - BRASS			
Reference	Diameter (mm)	Uts./Small box	Uts./Large box
H727UB160016	16 - 16	5	60
H727UB200020	20 - 20	5	60
H727UB250025	25 - 25	3	36



EXTENSION IN BRASS + BOLT			
Reference	Diameter (mm)	Uts./Small box	Uts./Large box
H727AB000000	-	100	1,200



BALL VALVE CONTROL			
Reference	Diameter (mm)	Uts./Small box	Uts./Large box
H727MB000000	Lever	5	60
H727OB000000	Hidden	10	120
H727PB000000	Knob	10	120



TERMINATION WALL SET WITH CASE - PPSU			
Reference	Diameter (mm)	Uts./Small box	Uts./Large box
H480WPR20000	16 - 1/2" 20 - 1/2"	10	120



TERMINATION WALL SET WITH PLATE - PPSU			
Reference	Diameter (mm)	Uts./Small box	Uts./Large box
H480PPR20000	16 - 1/2" 20 - 1/2"	3	36



WALL FASTENING PLATE			
Reference	Diameter (mm)	Uts./Small box	Uts./Large box
H475FA000000	-	50	600

Product range



WALL FASTENING PLATE IN "U"			
Reference	Diameter (mm)	Uts./Bag	Uts./Large box
H475UA000000	-	1	-



CLAMP KIT			
Reference	Description	Uts./Bag	Uts./Large box
H475KA010000	2 short clamps + 1 metal plate	1	-
H475KA020000	2 short clamps + 2 long clamps + 2 metal plates	1	-



PVC PLASTIC CABINET FOR MANIFOLD			
Reference	Diameter (mm)	Uts./Small box	Uts./Large box
U21A23000000	350 x 350 x 90	1	-
U21A24000000	350 x 500 x 90	1	-



FLOOR™

UNDERFLOOR HEATING & COOLING
SYSTEM



PIPEX®
THINK FLEXIBLE



Underfloor Heating System



XFloor is a low-temperature radiant climate control system that operates by channelling water through a network of pipes installed beneath the floor of a home or commercial premises. This system turns the floor into a large thermal emitter that distributes heat and cooling evenly, providing climate control throughout the rooms.

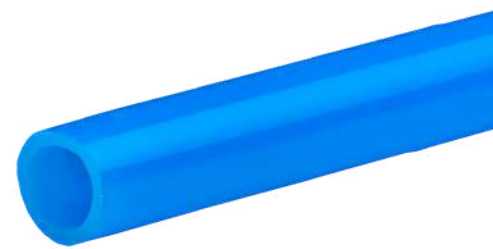
The basic principle of this climate control system is the circulation of water at medium temperature (around 40°C in winter and 16°C in summer), achieving a floor surface temperature of 24°C to 27°C for optimal comfort. It never exceeds 29°C in heating mode and remains around 20–21°C in cooling mode, allowing indoor temperatures of between 19°C and 21°C in winter and between 24°C and 26°C in summer.

Furthermore, due to the low temperatures required, underfloor radiant climate control is the most efficient alternative to conventional systems, as it is compatible with renewable energy sources, thereby offering greater efficiency and a lower environmental impact.



designed by freepik





COMPONENTS OF THE SYSTEM

PE-Xa EVOH pipe

Dimensions (mm)

12x1.1	12x2.0	14x2.0	15x1.5	15x2.5	16x1.5	16x1.8
16x2.0	16x2.2	17x2.0	18x2.0	20x1.9	20x2.0	25x2.3

PE-Xa EVOH → See technical data on page: 8
Available in 3 and 5 layers

PE-Xb EVOH pipe

Dimensions (mm)

12x1.1	12x2.0	16x1.5	16x1.8	16x2.2	20x1.9	20x2.0	25x2.3
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PE-Xb EVOH → See technical data on page: 13
Available in 3 and 5 layers

PE-RT EVOH pipe

Dimensions (mm)

8 x 1.0	10 x 1.25	12 x 1.2	14 x 2.0	15 x 1.5	15 x 2.0
16 x 1.8	16 x 2.0	17 x 2.0	18 x 2.0	20 x 2.0	25 x 2.3

PE-RT EVOH → See technical data on page: 16
Available in 3 and 5 layers

KLETT System - Hook and Loop

Dimensions (mm)

PE-Xa EVOH		16 x 1.5	16 x 1.8	16 x 2.0	17 x 2.0	18 x 2.0	20 x 2.0
PE-Xb EVOH		16 x 1.5	16 x 1.8	16 x 2.0			20 x 2.0
PE-RT EVOH	15 x 1.5		16 x 1.8	16 x 2.0	17 x 2.0	18 x 2.0	20 x 2.0
PE-RT/AL/PE-RT				16 x 2.0			20 x 2.0

KLETT System → See technical data on page: 17

PE-RT/AL/PE-RT pipe

Dimensions (mm)

16 x 2.0	18 x 2.0	20 x 2.0
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PE-RT/AL/PE-RT → See technical data on page: 18

DUOFLEX - PE-RT/AL/PE-RT pipe

Dimensions (mm)

16 x 2.0

Duoflex pipe → See technical data on page: 19

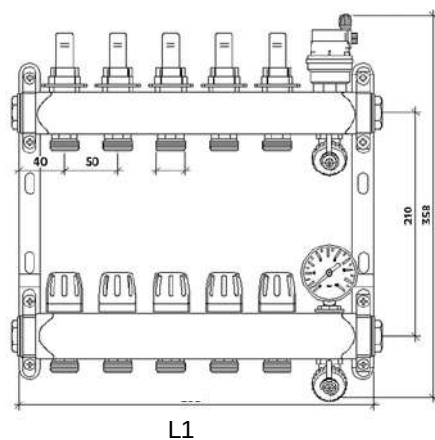


Manifolds

The manifolds for radiant floor heating are essential components of the system, responsible for controlling and distributing the hot water that circulates through the system's pipes. These manifolds act as regulators of water flow and temperature to ensure consistent heat in all designated areas.

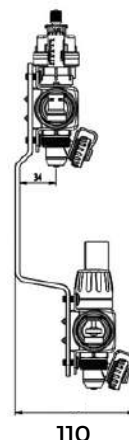
Pre-assembled stainless steel manifold

Pre-assembled and complete unit with 0-5 l/min range flow meters on the supply side, and thermostatic valve on the return side. Automatic air vent and fill/purge valves on both the supply and return sides. Compatible with various pipe sizes up to 20 mm. The manifolds have a separation distance of 210 mm between the supply and return manifolds. 3/4" Eurocone outlets with a 50 mm spacing between them. To facilitate installation, we recommend using pipes with a maximum diameter of 20 mm. The inlet connections on the supply and return sides are 1" female thread.



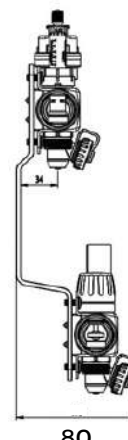
L1

Standard brackets



110

Brackets type B



80

Reference	Manifold	Width L1
U12C02000000	2 outlets	180 mm
U12C03000000	3 outlets	230 mm
U12C04000000	4 outlets	280 mm
U12C05000000	5 outlets	330 mm
U12C06000000	6 outlets	380 mm
U12C07000000	7 outlets	430 mm
U12C08000000	8 outlets	480 mm
U12C09000000	9 outlets	530 mm
U12C10000000	10 outlets	580 mm
U12C11000000	11 outlets	630 mm
U12C12000000	12 outlets	680 mm

(*) For brackets type B (less depth) the last number of references will be 1 instead of 0

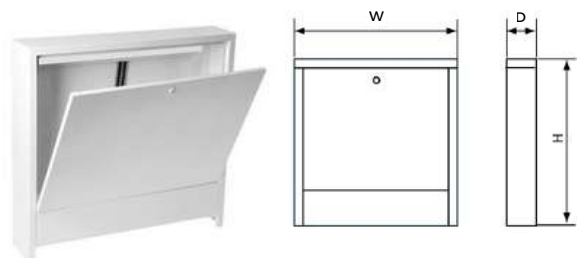
Metal Cabinets

Metal cabinets available for exterior or built-in:

- White color (RAL 9003).
- The rear wall is equipped with rails and bolts for fixing the collector.
- Adjustable collector height inside the cabinet.
- Side walls with pre-drilled holes for the entry and return pipes.
- Feet to fix the cabinet to the floor.
- Removable entrance door.
- Adjustable height in the built-in model.
- Adjustable depth in the built-in version.
- Cabinet doors with lock and key.

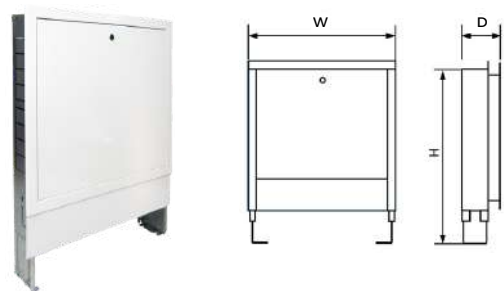
Exterior metal cabinet

Reference	Dimensions	
	Width - High - Depth	Circuits
U22A02000000	760 x 580 x 120 mm	To 8
U22A03000000	845 x 580 x 120 mm	From 8 to 10
U22A04000000	1,015 x 580 x 120 mm	From 11 to 12



Built-in metal cabinet

Reference	Dimensions	
	Width - High - Depth	Circuits
U22A31000000	530 x 690-790 x 80-135 mm	To 5
U22A32000000	680 x 690-790 x 80-135 mm	From 6 to 9
U22A33000000	830 x 690-790 x 80-135 mm	From 10 to 12
U22A34000000	1,030 x 690-790 x 80-135 mm	From 13 to 16



Plastic Cabinet

Manifold cabinets for heating and plumbing applications, flush mount. With different widths depending on the number of collector outlets

Reference	Size	Dimensions
		Width - High - Depth
U21A21000000	3/4"	320 x 280 x 90 mm
U21A22000000	1"	460 x 290 x 90 mm



Manifold connector

3-piece connectors connect the pipe to the manifold, achieving a reliable and secure connection between the components.

Thread 3/4" Eurocone.

Reference	Dimensions (mm)
U32B01R30012	12 x 2.0
U32B01R30046	16 x 1.5
U32B01R30056	16 x 1.8
U32B01R30016	16 x 2.0
U32B01R30017	17 x 2.0
U32B01R30020	20 x 2.0
U32B01R30025	25 x 2.3

*Available in other sizes under request



Pair of brackets

Used for mounting manifolds.

Reference	Description
U52D08000000	Pair of Brackets for S.S. manifold - depth. 110 mm
U52D28000000	Pair of Brackets for S.S. manifold - depth. 80 mm



Isolation valves

Shut-off valves are to be placed at the inlet and outlet of the collector group. They incorporate a thermometer on the side. Thread 1" M/F

Reference	Description
U52V01R400R4	Straight with thermometer 1" M-H
U52V02R400R4	Straight without thermometer 1" M-H



Controls & Regulation

Manifold actuators

Easy installation actuator in 230V or 24V options. The unit comes in the normally closed (NC) position. Consumption < 2W.

The 2-wire cable, with an extended length of 780 mm.

M30x1.5 connection

Protection: IP 45

Reference	Voltage
U43R01000000	230 V
U43R02000000	24 V



Dial thermostats

For heating systems, adjustable temperature range between 12 °C - 35 °C. Yo

Power: 230V. Consumption < 2W.

Protection IP 20

Reference	Dimensions
U43R03000000	82x82x35.5 mm



Anti-tamper thermostat

For heating systems with comfort selectors (day, night, and off), adjustable temperature ranges between 5 °C - 30 °C. LED indication when heating is activated.

Power: 230V.

Protection Class II - IP 30

Reference	Dimensions
U43R20000000	80x80x30 mm



Programmable thermostat

Programmable digital room thermostat that offers users 6 periods throughout the day to adjust the heating system. Elegant and easy-to-use design. Adjustment range 5 °C - 30 °C. Available with a black and white finish.

Power: 230V and 24V. Consumption < 1.5 W. Dimensions 86x86x14 mm.

Reference	Voltage	Colour
U43R05000001	230 V	White
U43R05000002	230 V	Black
U43R25000001	24 V	White



Wireless programmable thermostat

Wi-Fi wireless heating thermostat with single channel receiver. Incorporates 7-day programming with smart application capability, 6 periods throughout the day. Adjustment range between 5°C - 35°C. WiFi App Control with IOS and Android. Available with a white finish.

Thermostat power: 2 AA batteries. Receiver power: 230V. Receiver and thermostat dimensions 86x86x15

Reference	Description
U43R09000000	Thermostat + Receptor



Programmable thermostat (Wi-Fi)

Like design and features such as the programmable thermostat. Use by Wi-Fi connection to link with the smart home system.

Programmable thermostat that offers users 6 periods throughout the day to adjust the heating system. Elegant and easy-to-use design. Adjustment range 5 °C - 30 °C. Available with a black and white finish.

Power: 230V and 24V. Consumption < 1.5 W. Dimensions 86x86x14 mm.

Reference	Voltage	Colour
U43R06000001	230 V	White
U43R06000002	230 V	Black
U43R26000001	24 V	White



Wiring Centre

230V connection box. It has easy-to-install connection terminals and LED indicators. The unit is equipped with a boiler connection, pump, and 3-way valve and timer port, for use with underfloor heating systems. For 8 zones.

Protection IP20

Reference	Description
U43R13000000	280x110x43.5 mm



Sensor probe

The floor temperature sensor is mainly used as a floor heating thermostat to measure floor temperature, allowing for more accurate floor detection. It is also suitable for monitoring pipe water temperature, indoor temperature, and outdoor temperature. MF58 10K resistor.

Reference	Dimensions
U43R12000000	L = 2.5 m



CONTROLLERS EVO RANGE

Wireless programmable thermostat

By associating this TEVO thermostat with the junction box and wireless gateway, heating management can be carried out from the phone and locally. A simple and minimal user interface allows users to enjoy a clear and easy-to-use one-touch control panel. Internal and external sensors to control air and/or soil temperature. Our 5+1+1 six-period programming system allows for flexible temperature control. WiFi App Control with IOS and Android. Adjustment range 5°C - 45°C. Available with a black and white finish. Power: 2 AA batteries. Dimensions 86x86x26 mm.

Reference	Colour
U43R15000001	White
U43R15000002	Black



Wireless RF central control centre

230V connection box. It has easy-to-install connection terminals and LED indicators. The unit is equipped with a boiler connection, pump, and 3-way valve and timer port, for use with underfloor heating systems. This wiring center can also be used for central control of multi-purpose systems using independent control outputs for hot water zone control and a dedicated channel for a radiator zone valve. For 8 zones, power supply: 230V, dimensions 280x110x43.5 mm. Protection: IP20.

This wiring center can control the activation of the heat source through a voltage-free output, in addition to offering a 230V output to the collector circulation pump. Includes optional pump delay function, pump exercise function, start switches, and zone LED indicators.

Reference	Description
U43R14000000	8 zones



Multifunctional Gateway

By pairing the TEVO thermostat with the wireless central control box, this multifunctional gateway takes advantage of the smart Wi-Fi capabilities of both devices. Compatible with ZigBee and Bluetooth protocols, users can design multi-device systems using Smartlife and Tuya apps. Operating range: -10°C - 55°C. Power: Micro USB DCSV.

Reference	Colour
U43R16000000	White



HEATING & COOLING RANGE

Wiring Centre

230 V connection box with easy-to-install terminals and LED indicators. The unit includes connections for a generator, pump and 3-way valve, as well as a switch for selecting cooling or heating mode. It is designed for use with underfloor heating and cooling systems. For 8 zones. Protection IP20

Reference	Dimensions	Colour
U43R43000000	280x110x43.5 mm	White



Heating and Cooling Switch

The Heating and Cooling Switch is used to change between summer cooling and winter heating operation when used in conjunction with a heating and cooling thermostat.

Reference	Power	Colour
U43R44000000	230 V	White



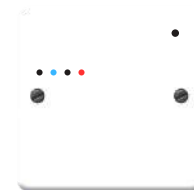
Dew Point Sensor

It is designed for use in conjunction with a heating and cooling thermostat, the Heating and Cooling Switch, and the dew point sensor.

The sensor probe is strapped to the underfloor manifold body and disables the wiring centre's demand and pump signals, while also closing the system zone valve as the manifold body approaches the dew point.

The sensor is supplied with a 2.5 m fly-lead probe and an 8 A volt-free switching relay.

Reference	Colour
U43R45000000	White



Programmable thermostat

Programmable digital room thermostat with six daily time periods for precise control of the heating and cooling system. Elegant and user-friendly design. Adjustment range: 0 °C to 45 °C.

Equipped with internal and external sensors for monitoring air and/or floor temperature, with connection and control via the Tio Climate app.

Consumption < 1.5 W

Reference	Dimensions	Colour
U43R41000000	86 x 86 x 14 mm	White
U43R42000000	86 x 86 x 14 mm	Black



ACCESSORIES

Pipe conduit with slit

This corrugated tube is used to protect the tubes that pass through expansion joints in underfloor heating systems. This one-piece tube can easily be adapted to an already laid pipe.

Reference	Dimensions
1400C120009	25 m



Edge with Tape & Overlap

Adhesive perimeter band with a skirt. The perimeter band is fixed before placing the insulating plate and performs mechanical and thermal functions. It perfectly and independently insulates the base of the system and the exterior and interior walls, allowing for the expansion that the mortar slab will suffer due to heating and avoiding thermal bridges.

Reference	Dimensions
U51D16000025	150 x 80 - L=25 m
U51D16000050	150 x 80 - L=50 m



Pipe bend support

The guide elbow allows pipes to be bent in a 90-degree arc without damaging them. The elbow can be used to guide pipe through floors to the manifold closet.

Reference	Dimensions (mm)
U51D01140018	14 - 18
U51D01200022	20 - 22
U51D01250025	25



Pipe identifier

Reference	Dimensions
U51D02160018	Red 16 - 17 - 18 mm
U51D02200023	Red 20 - 23 mm
U51D03160018	Blue 16 - 17 - 18 mm
U51D03200023	Blue 20 - 23 mm

Red: hot

Blue: cold



Pipe cutter

Reference	Dimensions
T52070160032	16 – 32 mm



Pipe decoiler

The pipe decoiler is used to quickly unwind pipes during underfloor system installation.

Reference	Description
U52D07000000	Horizontal: 170 x 260 x 620
U52D06000000	Vertical: 1,027 x 750 x 1,095

Horizontal weight: 11.5 Kg

Vertical weight: 35 Kg



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