

Company

Coesklima®



building the future together

Technical manual 2017



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Coesklima®

Coesklima Superk® and the system for hot water supply, heating, air conditioning and compressed air.

It consists of a multilayer pipe in PE-Xb/AL/PE-HD, pressfitting multi-profile H-TH-U fittings from Ø 16 to 32mm and U-profile sections from Ø 40 to 75mm and quick coupling Sliding Push-Fit brass fittings Ø16x2, 20x2, 26x3mm.

The multilayer pipe combines the advantages of plastic and aluminium in a single product: robust and resistant to cracking, corrosion and chemical agents; the aluminum core ensures durability, safety and impermeability to oxygen.

The Coesklima Superk® system complies with Italian standard UNI ISO 21003.

The Coesklima Superk® and non-toxic programme is perfectly suitable for the transportation of drinking water and liquid foodstuffs (Italian DM n°174-2004).

- WIDE RANGE OF PIPES, INSULATED, "POLAR" INSULATED WITH CORRUGATED SLEEVE,
- MULTIPROFILE PRESSFITTING H-TH-U FITTINGS WITH Ø16 TO Ø32,
- PRESSFITTING U-PROFILE FITTINGS WITH Ø 40 to Ø 75,
- SLIDING PUSH-FIT FITTINGS Ø16X2, 20X2, 26x3.

TECHNICAL SPECIFICATIONS

Operating temperature (°C)	0-70
Peak temperature (°C)*	95
Max. operating pressure (Bar)	10
Thermal expansion coeff. (mm/m°C)	0,026
Internal roughness (n mm)	0,007
Thermal conductivity of the multilayer pipe (W/m°K)	0,40
Oxygen diffusion (m/l)	0
Manual bending radius (mm)	8-10 x Ø pipe

* For short periods

Malleability

The pipe is stable and flexible to allow shape adjustments during laying.

An appropriate bending spring, which avoids deformation or ovalisation of the pipe section, must be used to achieve particularly tight bend radii.

Durability and safety

The aluminium core allows the pressure of the heating fluid to be absorbed, thereby avoiding the premature aging of the plastic pipe.

Even the "creep", i.e. the elongation of the pipe due to temperatures, is prevented by the aluminium layer.

Expansion

The adhesive layer ensures durable adhesion between the plastic material and the aluminum. Despite different expansion coefficients, the pipe behaves like a single piece.

The aluminum pipe is critical to expansion, which is 0.026 mm/m°K (for more details see the installation section).

Corrosion

The inner layer in PE-Xb and outerlayer in PE-HD prevent any type of corrosion, whether chemical, electrochemical or natural.

Detectability

Coesklima SuperK® pipe can be located using a metal detector, so as to avoid any damage resulting from breakage.

Soundproofing

The inner and outer surfaces of a Coesklima SuperK® pipe are able to absorb and eliminate noise caused by vibrations and water hammering that usually occur in systems built with iron pipes.

Comparing a Coesklima SuperK® pipe with other materials

Linear thermal expansion between 50m with Δt 50°C

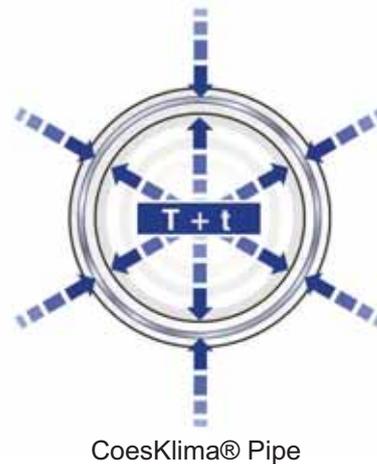
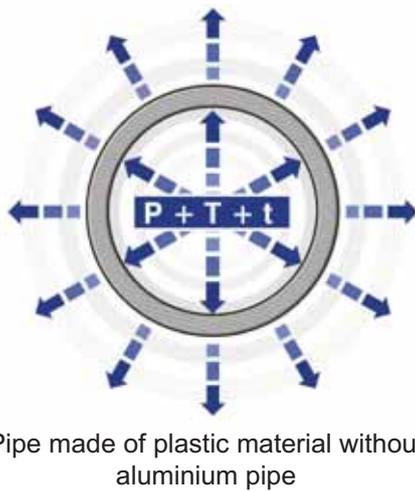
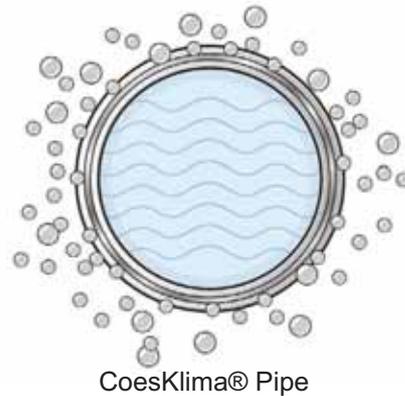
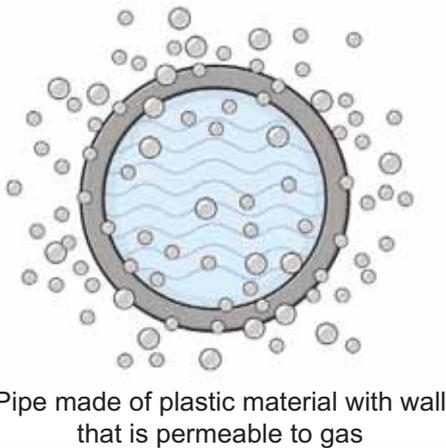
PEX	500mm
PP	450mm
PB	375mm
PVC	200mm
Coesklima SuperK®	65mm
Copper	41,25mm
Galvanised steel	28,5mm
Stainless steel	27,5mm

Oxygen diffusion

The aluminium intermediate layer avoids the permeabilisation of oxygen, a common problem in pipes made of plastic material, avoiding muddy sediments inside the pipe. Consequently, there is a lower probability of damage being caused to boilers, heat metres, fittings, steel pipes, etc. (Fig. 1).

Used in heating systems, plastic pipes are simultaneously subjected to thermal (T), mechanical (P) and time (t) stresses and are subjected to faster mechanical wear phenomena than a metal pipe. (Fig. 2).

Fig.1



Temperature / time / pressure effect

Non toxicity

Coesklima SuperK® pipe is suitable for the transportation of drinking water and liquid foodstuffs, complying with current regulations, both national and international.

Low pressure drop

The particular smoothness of pipe's inner surface, leads to a reduction in pressure drop. Furthermore, this condition means that there are no limestone deposits, allowing the Coesklima SuperK® pipe section to remain unaltered during service life.

TECHNICAL SPECIFICATIONS

Coesklima SuperK® pipe is manufactured using a particular 5 layer extrusion process. It combines the chemical-physical and practical qualities of a plastic pipe and the dimensional stability and strength of a metal pipe in a single product.

Pipe marking

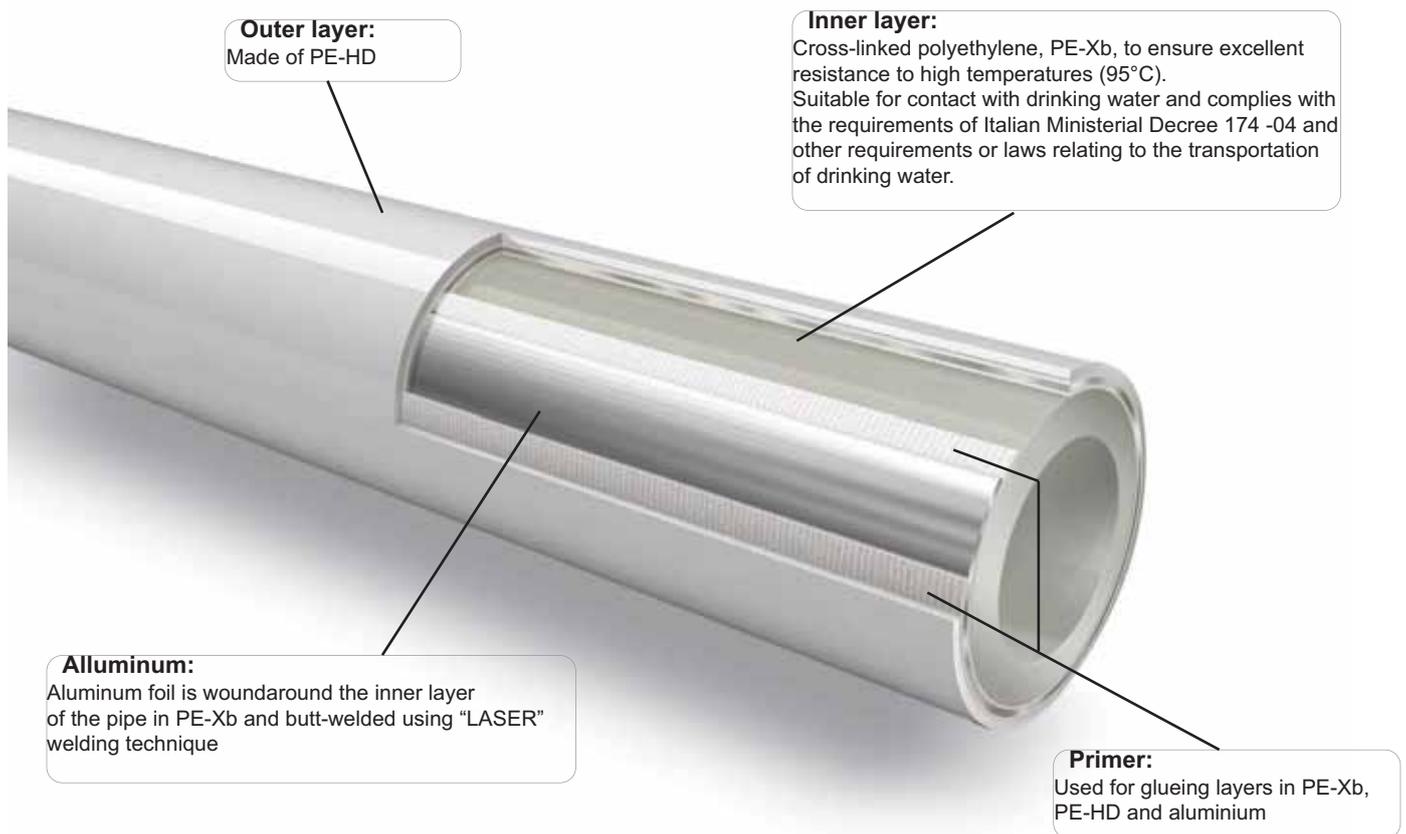
Coesklima Superk® PE-Xb/AL/PE-HD
sanitary/heat Ø x sp.– 10 bar–t max 95°C –

Product compliance with Italian DM n°174/2004 EN 21003 -DIN 472629 - national and international certifications Made in Italy - batch and date of manufacture, anti-counterfeiting code.

Range

From DN 16 to 75 mm.

Bare, Insulated pipe, "Polar" insulated and corrugated sheath pipe.



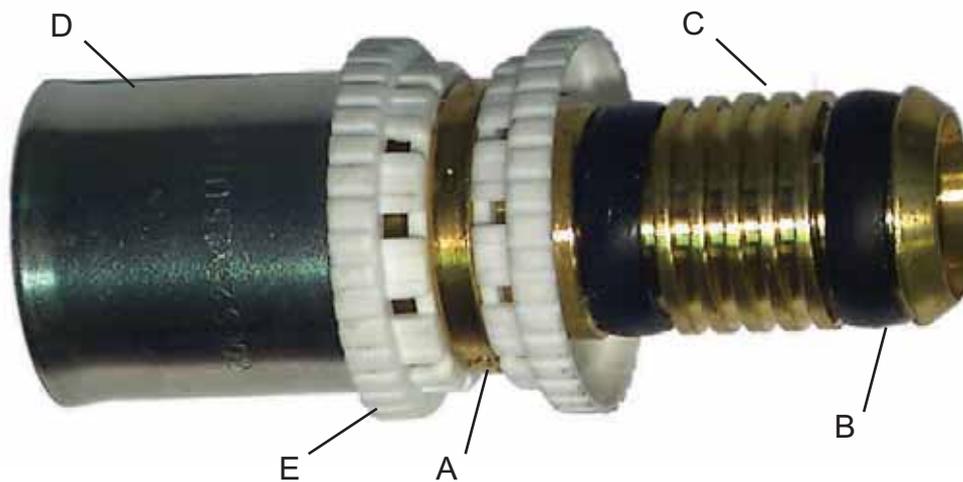
Range

Outer Diameter (mm)	16	20	20	25	26	32	40	50	63	75
Thickness (mm)	2	2	2,25	2,5	3	3	4	4,5	6	7,5
Inner diameter (mm)	12	16	15,5	20	20	26	32	41	51	60
AL thickness (mm)	0,20	0,25	0,25	0,30	0,30	0,50	0,60	0,75	0,95	1,10

PRESSFITTING FITTINGS

Made of brass, designed by COES and used for connection by compression to the multilayer pipe. The fittings bear the diameter for coupling to the pipe and the pressing profile "U, H, TH".

K-Fit pressfittings from 16 to 32 mm diameters



A) Body of the fitting in brass CW617N, UNI EN 12164.

All parts in contact with water are free of nickel and other heavy metals, in compliance with Italian DM n°174-2004 on the matter of potability.

B) 2 K-ring seals

in EPDM suitable for foodstuffs, allows the pressing with the profiles: U, H, TH. The K-ring has a convex profile to simplify the pipe fitting process. The large sealing surface reduces stress on the material of the seal, there by ensuring longer life.

The lubricant used is very special, high performance, durable and suitable for use with foodstuffs. In case of incomplete or incorrect pressing, during system testing the fitting leaks visibly.

C) Patented profile: thanks to the shape of the hosefitting, the seal is more easy to install: flaring is no longer necessary, as it is sufficient to calibrate the pipe, particularly in cases of ovalisation caused by cutting.

D) Bushing in AISI 304 stainless steel marked with the diameter, the thickness of the corresponding pipe and the pressing profile U, H, TH.

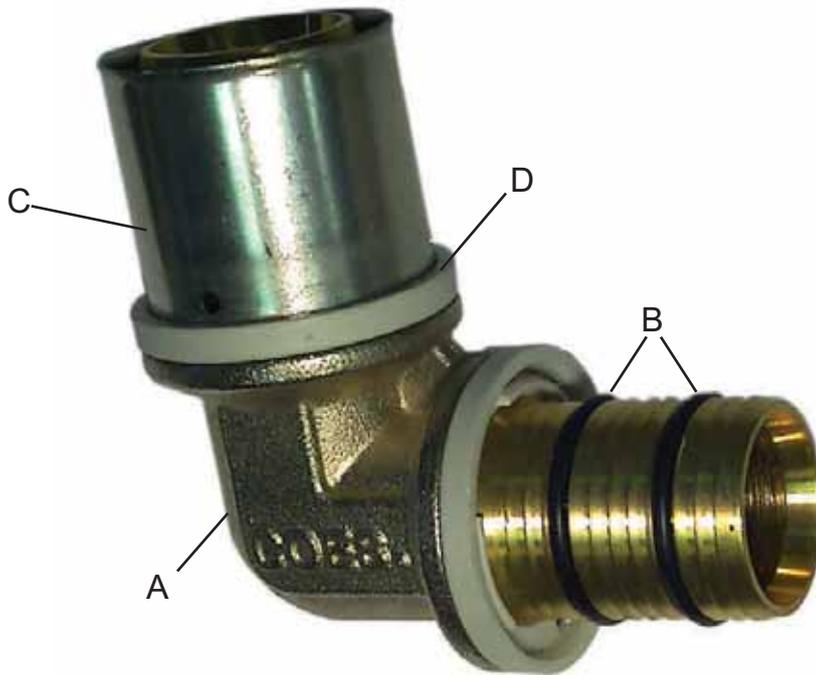
It is produced by a drawing process, thereby ensuring a constant hardness of ~ 160 Hv, for uniform and safe pressing.

The bushing is equipped with dowel holes to identify the abutment of the pipe.

E) Bushing fitting ring in PP with the functions of power supply cut-off between the pipe and fitting and fastening the bushing to the body of the fitting.

K-Fit pressfittings with 16 to 32 mm diameters.

Pressfitting fittings from 40 to 75 mm diameters



A) Body of the fitting in brass CW617N, UNI EN 12164. All parts in contact with water are free of nickel and other heavy metals, in compliance with Italian DM n°174-2004 on the matter of potability.

B) 2 O-rings in EPDM that ensure a surface with an adequate seal and a well-tested profile.

C) Bushing in AISI 304 stainless steel marked with the diameter, and the thickness of the corresponding pipe. It is produced by a drawing process, thereby ensuring a constant hardness of ~ 160 Hv, for uniform and safe pressing. The bushing is equipped with dowel holes to allow visual checking of the correct penetration of the pipe.

D) Bushing fitting ring in PP with the functions of power supply cut-off between the pipe and fitting and fastening the bushing to the body of the fitting.

NOTE:

Pressing with the "U" profiles.

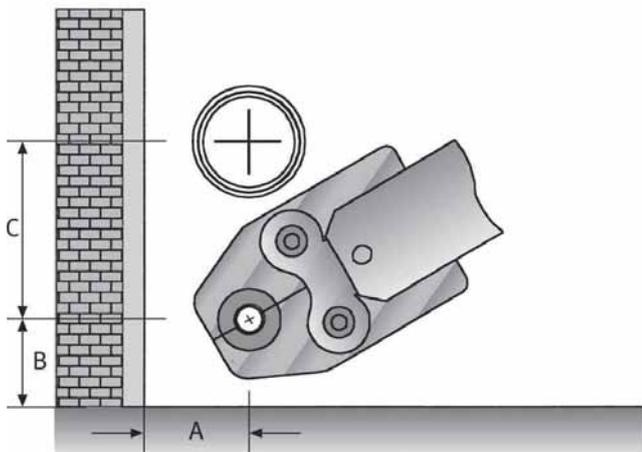
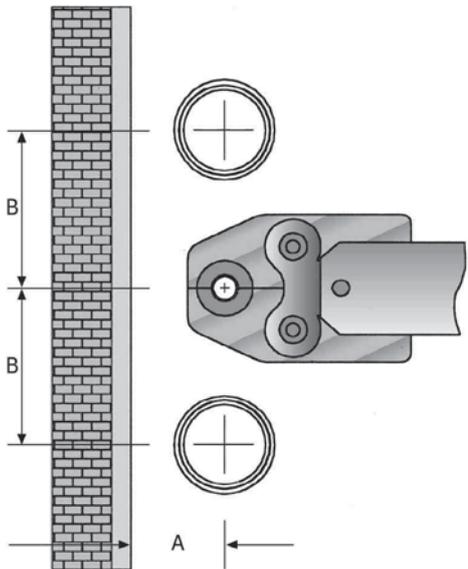
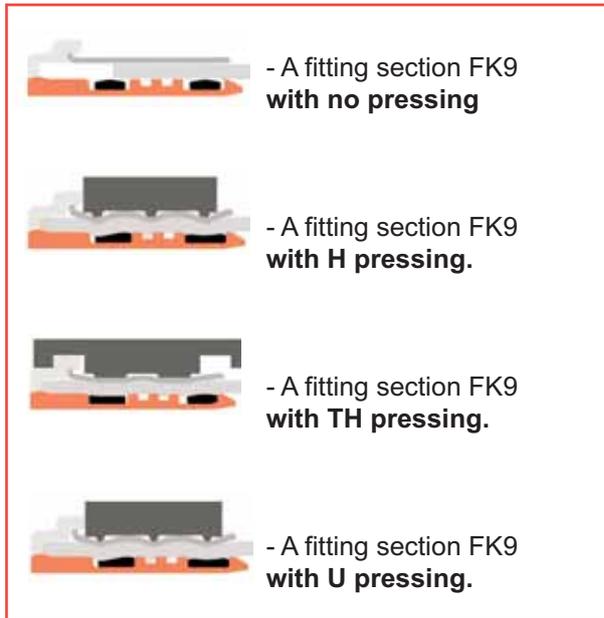
Male threads are knurled to improve the adhesion of the teflon or hemp; female threads are cylindrical according to ISO 7/1 EN 10226-1.

PRESSFITTING CONNECTION

The connection process involves both pipe and fitting, and is carried out by compression using an electro-pneumatic tool or manual equipment. The sealing bushing is deformed so that it can well adhere to pipe's surface, which in turn is pressed against the sealing elements (O-rings or K-rings) on the surface of the fitting, ensuring a hydraulic seal and preventing the pipe from sliding off.

Pressing

View of the K-ring pressfitting section after pressing using the 3 profiles available:



WARNINGS:

Minimum space requirements when using clamps

Ø Pipe	A mm	B mm
16	15	45
20	18	48
25	27	71
32	27	75
40	40	89
50	45	95
63	80	98
75	82	125

Ø Pipe	A mm	B mm	C mm
16	30	30	87,5
20	32	32	90
25	49	49	105
32	50	50	110
40	60	60	128
50	60	60	135
63	75	80	125
75	82	82	125

CONNECTION INSTRUCTIONS

1 - Cut the Coesklima SuperK® pipe at a right angle using a pipe cutter or another suitable cutter, taking care to avoid excessive ovalisation.

2 - Calibrate Coesklima SuperK® pipe using a special cutting tool, that must be fitted and turned into the pipe in order to eliminate the ovalisation created by cutting.

2.1

N.B.: in the case of connections using FK7 pressfittings, flaring is required. The flaring accessory of a drill can be used, but it must not exceed 500 revolutions/min. to avoid overheating the pipe.

Caution!

If there is no flaring or it has been performed poorly, damage may be caused to the sealing elements leading to leaks that may occur over the course of time.

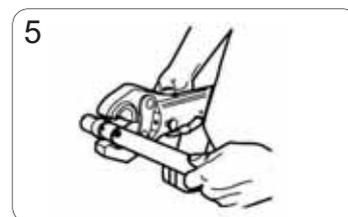
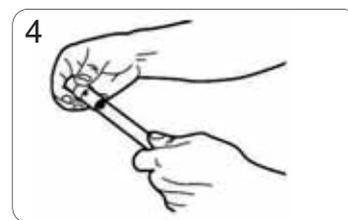
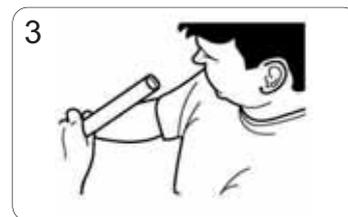
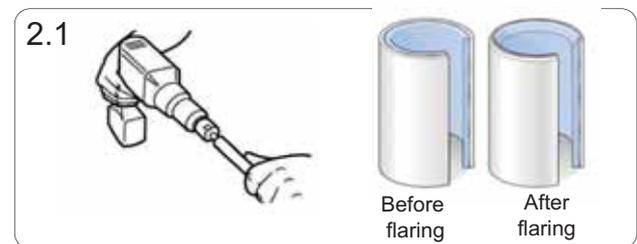
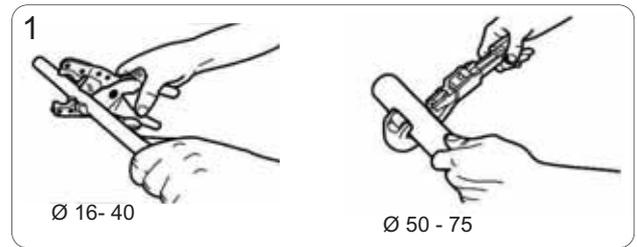
3 - Make sure that calibration is performed properly. Remove any dust or debris inside the pipe using a suitable pad or a clean cloth.

4 - Remove the fittings from the sealed package only when needed for installation, to prevent them from coming into contact with dust or debris that could contaminate the grease on the O-rings and K-rings. Insert the Coesklima SuperK® pipe until the stop point. For correct penetration of the fitting, the pipe must be visible through the reference holes on the steel bush. On K-Fit fittings, if the connection is performed as described above, **insertion requires practically no effort**. This is the best way to check whether assembly has been performed properly.

Caution!

In event of difficult fitting of a K-Fit in a pipe with an angle greater than 20°, the seal will come off and become torn, leading to copious leaking during the testing phase.

5 - Check that the clamps are in good condition. Place the clamp against the bushing fitting ring and press. Check the pressing is correct and perform the water pressure seal test.

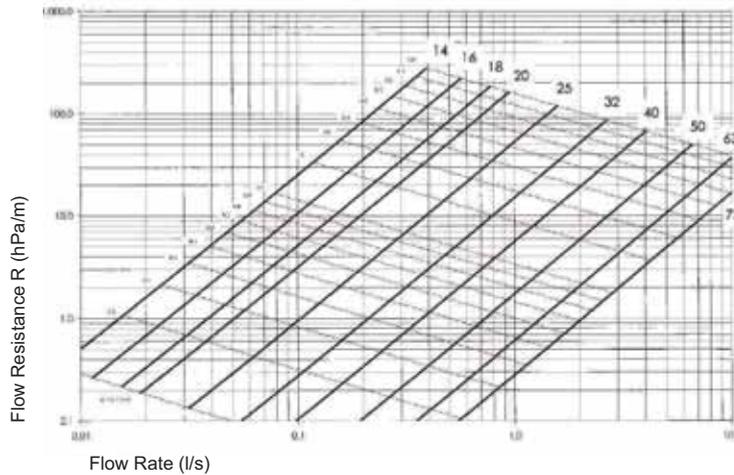


SYSTEM PLANNING AND EXECUTION

We recommend to take into account of any national provision or law. In Italy, the standard is UNI 9182.

Diagram of pressure drop of the Coesklima Superk®

The leakage values for Coesklima Superk® are indicated in the diagram (Fig. 1).



Pressure drop in Coesklima Superk®

Pressure drop coefficients (z) for Coesklima Superk®

		16x2	20x2,25	20x2	25x2,5	32x3	40x4	50x4,5	63x6	75x7,5
90° elbow		3.40	2.60	2.60	2.40	2.10	1.90	1.50	1.40	1.40
45° elbow		-	-	-	1.30	1.10	1.10	0.80	0.80	0.80
Reducer		1.30	1.00	1.00	0.90	0.80	0.80	0.60	0.60	0.50
TE fitting with flowconnector		4.00	3.10	3.10	2.80	2.40	2.30	1.80	1.70	1.70
TE fitting with flow interrupt		0.90	0.70	0.70	0.70	0.60	0.50	0.40	0.40	0.40
TE fitting with flow separation		3.50	2.80	2.80	2.50	2.10	2.00	1.60	1.50	1.50

The concentrated pressure drop values of Coesklima Superk® fittings are obtained using the following formula:

$$\Delta P = \zeta \cdot 5 \cdot V^2 \text{ (mbar)}$$

- Δp = Pressure drop [mbar]
- V^2 = Flow speed [m/s]
- ζ = Pressure drop coefficient (see Table)
- 5 = Numeric constant

EXPANSION

In systems with visible pipes, the Coesklima SuperK® pipe is subjected to temperature variations and thermal expansion.

The phenomenon of expansion, comparable to that in metal pipes, must be taken into account during the installation of the system.

The expansion of the Coesklima SuperK®, pipe length varies proportionally with temperature.

The longitudinal expansion coefficient for Coesklima SuperK® pipes is:

$$0,026 \text{ mm/m}^\circ\text{K}$$

The variation in length of a pipe is calculated using the following formula:

$$\Delta L = L \cdot \Delta t \cdot \alpha \text{ (mm)}$$

where:

ΔL = Linear thermal expansion (mm)

α = Longitudinal expansion coefficient mm/m $^\circ$ K

L = Pipe length (m)

Δt = Temperature difference $^\circ$ C

An example of the calculation of the variation in length ΔL :

Pipe length = 16 meters

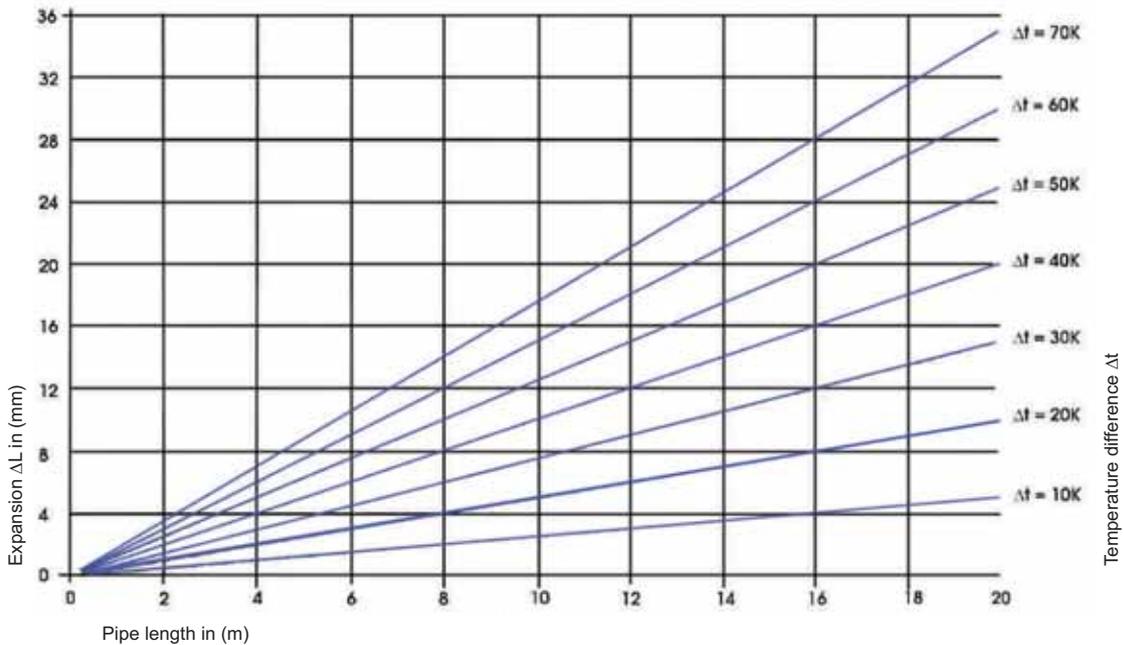
design temperature = + 19 $^\circ$ C

Operating temperature = + 9 $^\circ$ C

$\Delta t = (19^\circ\text{C} - 9^\circ\text{C}) = 10^\circ\text{C}$

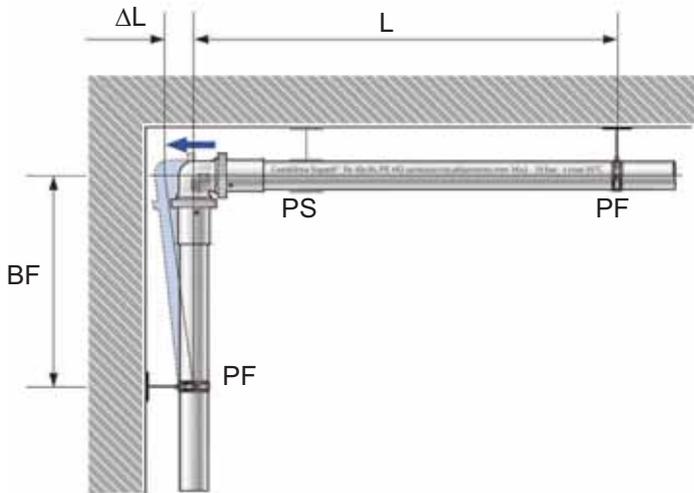
$\Delta L = (16 \cdot 10 \cdot 0.026) = 4,16 \text{ mm}$:

Diagram for determining the variation in length of the Coesklima SuperK® pipe



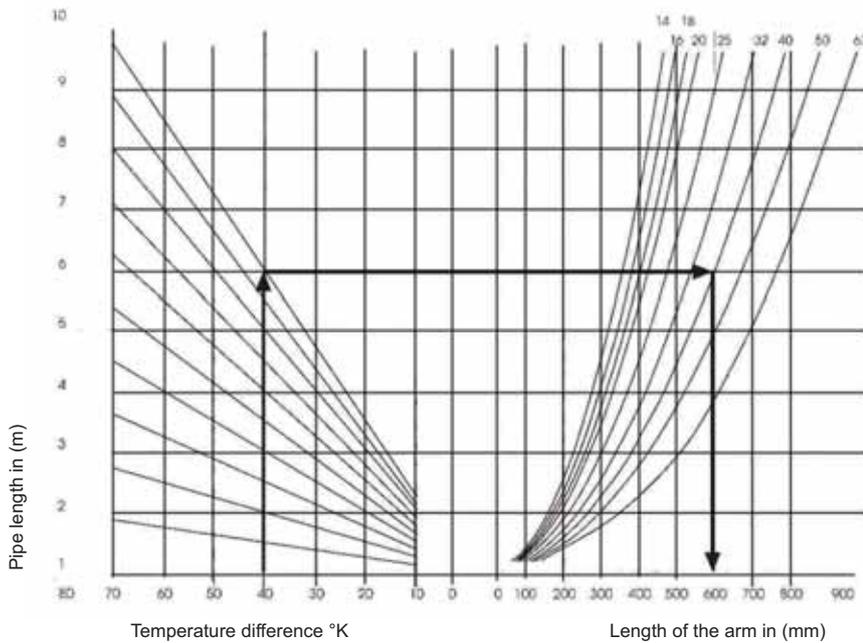
Compensation of expansions in systems with visible pipes

To compensate thermal expansion it is necessary to know the location of all fixed points. Compensation always takes place between two fixed points (PF) via a flexible arm (BF).



PF = Fixed point
 BF = Arm
 PS = Sliding point
 ΔL = Expansion

Graphic determination of the arm length BF



An example of diagram reading:
 Ambient temperature: 20 °C
 Operating temperature: 60 °C
 Temperature difference: 40 °C
 Pipe section length L: 10m
 Pipe size: 40 x 4 mm.
Required arm length BF = 600 mm.

UV exposure

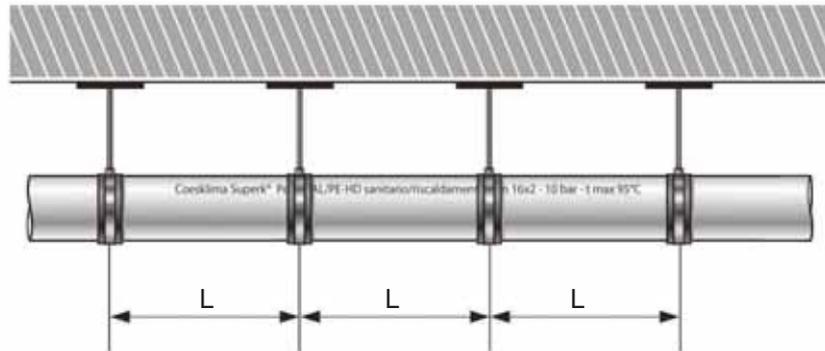
It is recommended not to install Coesklima Superk® pipes in places directly exposed to sunlight, without adequate protection.

LAYING INSTRUCTIONS

Aerial fixing of the pipes

In order to fasten the Coesklima SuperK® system in mid-air, the distance between supports varies depending on the diameter of the pipe.

Ø	L
16	1mt
20	1mt
25	1,5mt
32	2mt
40	2mt
50	2mt
63	2mt
75	2mt



N.B. Fastening of the pipes during installation must take into account expansion.

Mounting method with reference to the “Z” dimension

The “Z” dimension offers the possibility of preparing the job with considerable advantages and easier laying. With the help of data relating to the "Z" measurement provided for all Coesklima SuperK® fittings, an installer can quickly identify the exact Lt length of the pipe between the fittings, without wasting material.

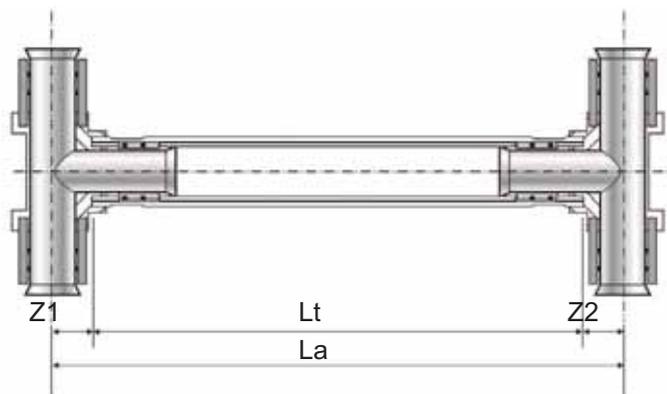
All the necessary tracks must be positioned along the axial line from centre to centre, e.g.:

$$L_t = L_a - Z_1 - Z_2$$

Lt = length of pipe section

Z1 e Z2 = quotas stated, item by item, in the fittings technical tables

See price list.



An example of an installation with a Ø40 mm Pressfitting fitting

HYDRAULIC TEST

Sanitary system

All systems must undergo hydraulic testing.
 Pipes must be filled with water and pressurised before grouting is completed.
 A pressure gauge must be connected at the lowest point of the test system.
 Use pressure gauges that allow the detection of changes in pressure of 0.1 bar.
 Perform the test with a pressure of 15 bar, then reduce the pressure to the operating value.

Test pressure:	15 bar
Max operating pressure:	5 bar
Test duration:	2 hours
Test pressure variation:	≥ 0.2 bar

Hydraulic test with K-Fit® fitting

During testing with pressure set at just 1.5 bar, in case of incomplete or incorrect pressing, the fitting leaks visibly. This is the best way of guaranteeing that the system is properly connected.



Radiator system

Close all of the shutdown devices located upline and downline of the radiators.
 Open all of the manifold valves and perform the test
 With a max. pressure of 5 bars, then decrease the pressure to the working pressure value (2,5 bars).

Test pressure:	5 bar
Max. operating pressure:	2.5 bar
Test duration:	2 hours
Test pressure variation:	≥ 0.2 bar

Visually inspect all connections to check for any leaks.

Caution: product selection and installation must comply with Italian Law 10/91, DPR n° 412/1993 and all other regulations in force; furthermore, the use of the Coesklima Superk® system is suitable for liquids that do not damage the materials used in the system. If you have any questions, please contact COES Company S.r.l.'s Technical Department.

Pipes equipped with linings

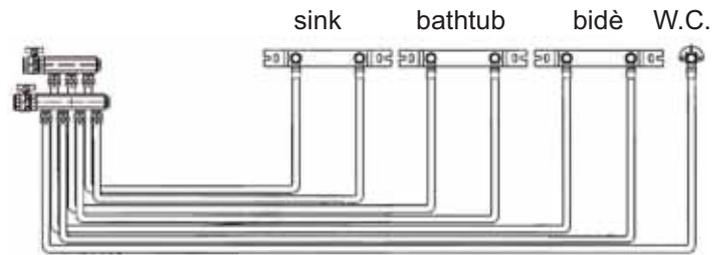
During the Coesklima Superk® pipe lining cutting phase, care must be taken not to damage the outer surface with cutters or blades of any kind, so as not to affect its physical-mechanical characteristics.

Coesklima SuperK® represents the alternative solution to traditional copper pipes for the following systems:

Sanitary

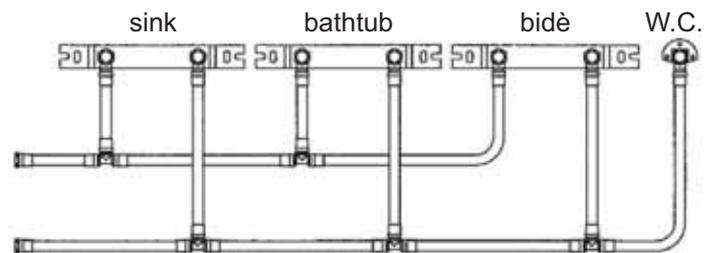
- **with a distribution manifold**

Each utility is individually connected to the manifold. Threaded terminal fittings are used to connect taps and fittings.



- **In branching**

Utilities are connected in series via TEE. Threaded terminal fittings are used to connect taps and fittings.



- **In series –connection**

This system is used for wall distribution systems. It can be prefabricated, mounted as a unit or as separate parts. As well as being used to connect taps and fittings, TEE fittings can be also used to connect other utilities.

Heating

- **Conventional and radiant panel systems**

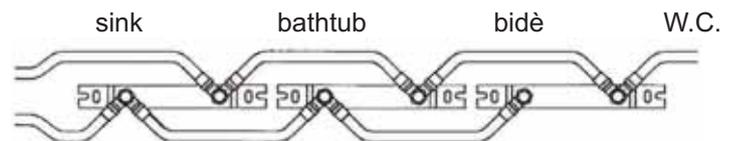
Conditioning

- **Cooled water**

Irrigation

- **Greenhouses and gardens**

Compressed air systems



Pipe diameter comparative table Coesklima Superk® with copper pipes

Ø Coesklima Superk® Pipe	=	Ø Copper pipe
16x2	=	14x1
20x2	=	18x1
20x2,25	=	18x1
25x2,5	=	22x1,5
26x3	=	22x1,5
32x3	=	28x1,5
40x4	=	32x1,5
50x4,5	=	42x1,5
63x6	=	54x1,5
75x7,5	=	63x1,5

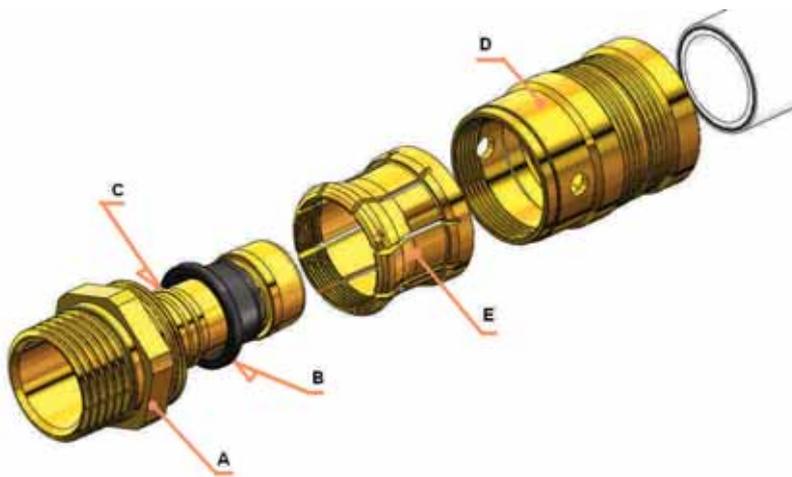
SLIDING PUSH FIT

Made from brass and designed by COES, they are used for connecting multilayer pipes via simple fitting. The fittings are marked with the pipe coupling diameter.

SLIDING PUSH FIT fittings diam. 16x2-20x2-26 x3



The fitting is subject to a worldwide patent



A) Brass fitting body CW617N, UNI EN 12164.

All parts in contact with water are free of nickel and other heavy metals, in compliance with Italian DM n° 174-2004 on the matter of potability.

B) Seal In EPDM, suitable for foodstuffs, to simplify the pipe fitting process. The large sealing surface reduces stress on the material of the seal, ensuring longer life. The seal also acts to interrupt the electrical continuity between the aluminium in the pipe and the fitting. The lubricant used is very special, high performance, durable and suitable for use with foodstuffs.

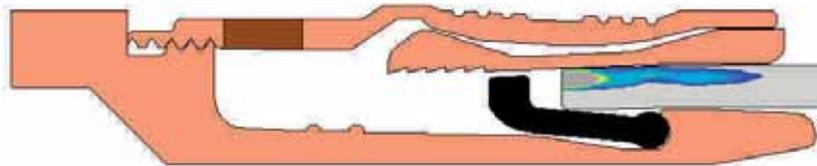
C) Patented profile: thanks to the shape of the hose fitting and the seal, the joint is more agile: it is sufficient to cut the pipe perpendicularly.

D) The bushing is made of brass and marked with the Diameter and the thickness of the corresponding pipe. It is produced by a turning process. The bushing is equipped with dowel holes to identify the abutment of the pipe and the correct position of the seal.

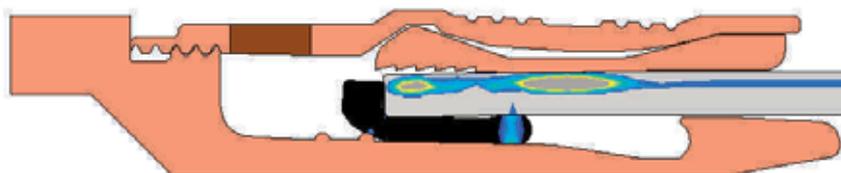
E) Full restraint cage, made of brass, is produced by turning. Thanks to its serration, the full restraint cage prevents the pipe from sliding due to operating pressure, and ensures extreme simplicity when fitting.

SLIDING PUSH-FIT CONNECTION

The connection process between the pipe and the fitting takes place by simple insertion. During insertion, the pipe "locks" onto the seal, and the insertion effort required to the installer is very low thanks to the low angle of the fitting's conical surface. The head of the fitting is designed to calibrate the pipe in case of ovalisation caused by cutting.

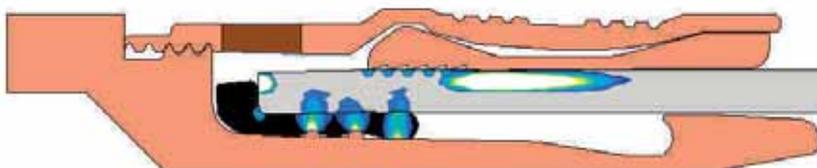


By continuing to insert the pipe into the fitting, the latter makes the seal slide along the conical part of the body of the fitting.



Once inserted, the form of the body of the fitting ensures the necessary compression of the seal between the pipe and the fitting. At abutment, the seal is fully compressed at 3 different points. The seal also acts to interrupt the electrical continuity between the aluminium in the pipe and the fitting.

Inside the bushing is the full restraint cage, made of brass, which prevents the pipe from sliding off the fitting.



INSTRUCTIONS FOR INSERTION

1 - Cut the pipe Coesklima SuperK® at a right angle using an appropriate cutter, taking care to avoid excessive ovalisation. (Fig.1)

Remove any dust or debris inside the pipe using an appropriate pad or a clean cloth.

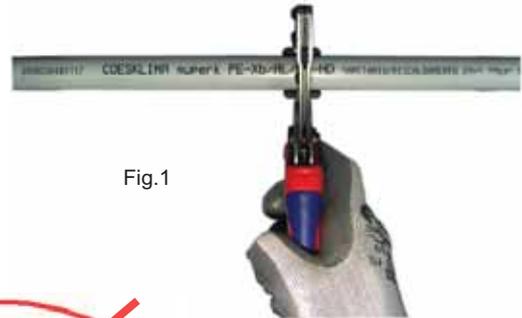
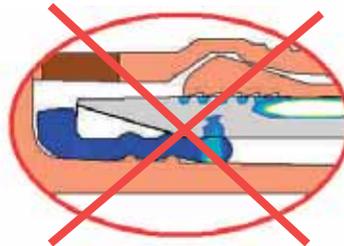


Fig.1

DO NOT FLARE THE PIPE!!!
Any flaring of the pipe causes bad positioning of the seal and, consequently, causes the fitting to leak



2 - Remove the fittings from the sealed package only when needed for installation(Fig.2), to prevent them from coming into contact with dust or debris that could contaminate the grease on the seal of the sliding push-fit fitting.



Fig.2

Insert the Coesklima SuperK® pipe until the stop point (Fig. 3, Fig.4). For correct penetration of the fitting, the pipe must be visible through the reference holes on the steel bush (Fig. 5). The effort of insertion should not be excessive.

This is the best way to check whether assembly has been performed properly.



Fig.3

Caution: the Sliding Push-Fit range does not include swivel nut fittings, since it is possible to screw the fitting without risking that the rotation between the fitting and the pipe might damage the seal.



Fig.5



Fig.4

SALVAGING A FITTING

The Sliding Push-Fit fitting can be disassembled so that it may be salvaged completely. The disassembly of the fitting must be performed in clean conditions, far from debris and dust.

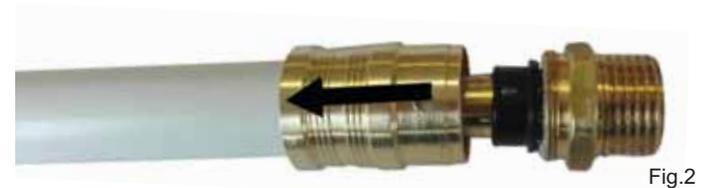
To salvage the fitting follow the steps below:

1 Cut the pipe to remove the fitting

2 Unscrew the bushing from the fitting. Fig.1



3 Remove the bushing together with the piece of pipe. Fig. 2, 3



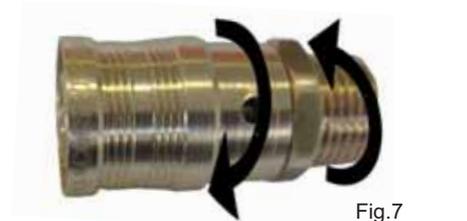
4 Return the seal (Fig.4) to original position. Fig.5



5 Slide off the piece of pipe from the bushing. Fig.6
CAUTION: slide it off by pushing the pipe in the same direction used to insert it.



6 Reassemble the bushing by screwing it to the body of the fitting. Fig. 7



MULTILAYER PIPE WITH OXYGEN BARRIER. FOR SANITARY AND HEATING SYSTEM, FLOOR RADIATING PANEL AND FAN-COIL SYSTEMS (Max working temperature: 95°C)



code	de	di	s		
F07KRS160H	16	12	2	100	1800
F07KRS160L	16	12	2	200	1800
F07KRS160M	16	12	2	500	2500
F07KRE220H	20	16	2	100	1100
F07KRS200H	20	15,5	2,25	100	1100
F07KRS200L•	20	15,5	2,25	200	1600
F07KRS250G	25	20	2,5	50	500
F07KRE260G	26	20	3	50	600
F07KRS320G	32	26	3	50	500

• On order only

MULTILAYER PIPE WITH OXYGEN BARRIER. IN 5 mt BARS. FOR SANITARY, HEATING AND FAN-COIL SYSTEM. (Max temperature: 95°C)



code	de	di	s		
F07KBA1605	16	12	2	125	-
F07KBA2205	20	16	2	80	-
F07KBA2005	20	15,5	2,25	80	-
F07KBA2505	25	20	2,5	50	-
F07KBA2605	26	20	3	50	-
F07KBA3205	32	26	3	35	-
F07KBA4005	40	32	4	40	-
F07KBA5005	50	41	4,5	30	-
F07KBA6305	63	51	6	15	-
F07KBA7505	75	60	7,5	5	-

MULTILAYER PIPE WITH OXYGEN BARRIER. THE PIPE IS PRE-INSULATED WITH A SHEATH IN CLOSED-CELL PE FOAM. FOR SANITARY AND HEATING SYSTEMS.

(Max temperature: 95°C). INSULATING MATERIAL THERMAL CONDUCTIVITY: =0,040W/mk



code	de	di	S	D	insulation thickness*		
F07KIS160G	16	12	2	28	6	50	750
F07KIE220G6 	20	16	2	32	6	50	400
F07KIE220G	20	16	2	40	10	50	400
F07KIS200G6 	20	15,5	2,25	32	6	50	400
F07KIS200G	20	15,5	2,25	40	10	50	400
F07KIS250G	25	20	2,5	45	10	50	400
F07KIE260G	26	20	3	46	10	50	400
F07KIS320B	32	26	3	52	10	25	225

MULTILAYER PIPE WITH OXYGEN BARRIER. THE PIPE IS PRE-INSULATED WITH A BLU/RED +SHEATH IN CLOSED-CELL PE FOAM. FOR SANITARY AND HEATING SYSTEMS.
 (Max working temperature: 95°C). INSULATING MATERIAL THERMAL CONDUCTIVITY: =0,040W/mk



code	de	di	S	D	insulation thickness*		
F07KISB160G	16	12	2	28	6	50	750
F07KISR160G	16	12	2	28	6	50	750
F07KIEB220G6	20	16	2	32	6	50	400
F07KIER220G6	20	16	2	32	6	50	400
F07KIEB260G	26	20	3	46	10	50	400
F07KIER260G	26	20	3	46	10	50	400
F07KISB320B	32	26	3	52	10	25	225
F07KISR320B	32	26	3	52	10	25	225

MULTILAYRE PIPE WITH OXYGEN BARRIER. THE PIPE IS PRE-INSULATED WITH A CORRUGATED BLU/RED SHEATH. FOR SANITARY AND HEATING SYSTEMS.
 (Max working temperature: 95°C).



code	de	di	S		
F07KCR160G	16	12	2	50	750
F07KCB160G	16	12	2	50	750
F07KCR220G	20	16	2	50	700
F07KCB220G	20	16	2	50	700
F07KCR200G	20	15,5	2,25	50	700
F07KCB200G	20	15,5	2,25	50	700
F07KCR260G	26	20	3	50	650
F07KCB260G	26	20	3	50	650

MULTILAYER PIPE WITH OXYGEN BARRIER. THE PIPE IS PRE-INSULATED POLAR WITH A SHEATH IN CLOSED-CELL PE FOAM. FOR REFRIGERATED WATER SYSTEMS.
 (Max temperature: 95°C). INSULATING MATERIAL THERMAL CONDUCTIVITY: =0,040W/mk

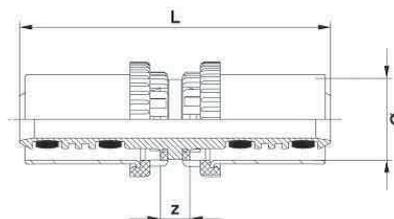


code	de	di	S	D	insulation thickness*		
F07KPO160G	16	12	2	36	10	50	450
F07KPE220G	20	16	2	46	13	50	400
F07KPO200B	20	15,5	2,25	40	13	25	250
F07KPO250B	25	20	2,5	51	13	25	225
F07KPE260G	26	20	3	51	13	50	350
F07KPO320B 	32	26	3	52	13	25	200

POLAR PIPE USE CONDITIONS

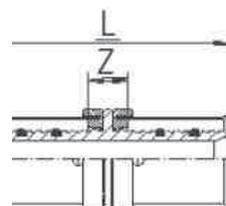
- Ambient temperature = 26±35 °C
- Water temperature = 5±9 °C
- Humidity = 60%

SLEEVE FOR PIPE/PIPE CONNECTION



code	Ø	Z	L	
FK9PM1616MPE	16X2	6	62,2	10
FK9PM2222MPE	20X2	6	63,6	10
FK9PM2020MPE	20X2,25	6	63,6	10
FK9PM2525MPE	25X2,5	6	77	10
FK9PM2626MPE	26X3	6	66,6	10
FK9PM3232MPE	32X3	6	77	10

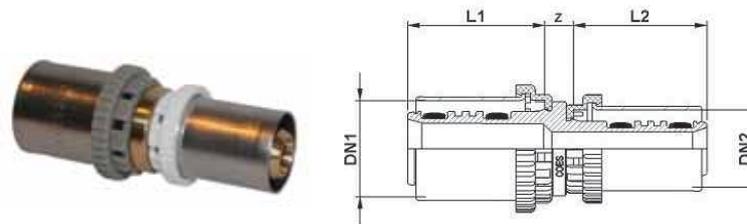
profile clamp U-H-TH



code	Ø	Z	L	
FK7PM4040	40X4	5,6	94	5
FK7PM5050	50X4,5	6,6	95	5
FK7PM6363	63X6	7	146,2	3
FK7PM7575	75X7,5	7	146	2

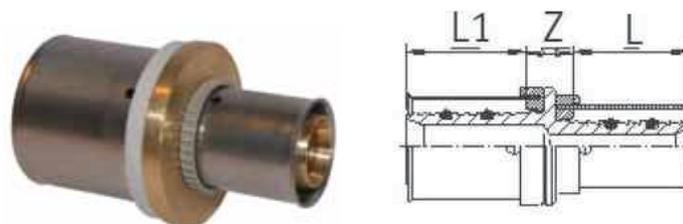
U profile clamp

REDUCER SLEEVE FOR PIPE/PIPE CONNECTION



code	DN1/DN2	Z	L1	L	
FK9PMR2216MPE	(20X2)X(16X2)	6	28,8	28,1	10
FK9PMR2016MPE	(20X2,25)X(16X2)	6	28,8	28,1	10
FK9PMR2516MPE	(25X2,5)X(16X2)	6	35,5	28,1	10
FK9PMR2520MPE	(25X2,5)X(20X2,25)	6	35,5	28,8	10
FK9PMR2616MPE	(26X3)X(16X2)	6	30,3	28,1	10
FK9PMR2622MPE	(26X3)X(20X2)	6	30,3	28,8	10
FK9PMR3220MPE	(32X3)X(20X2,25)	6	35,5	28,28	10
FK9PMR3222MPE	(32X3)X(20X2)	6	35,5	28,8	10
FK9PMR3225MPE	(32X3)X(25X2,5)	6	35,5	35,5	10
FK9PMR3226MPE	(32X3)X(26X3)	6	35,5	35,5	10

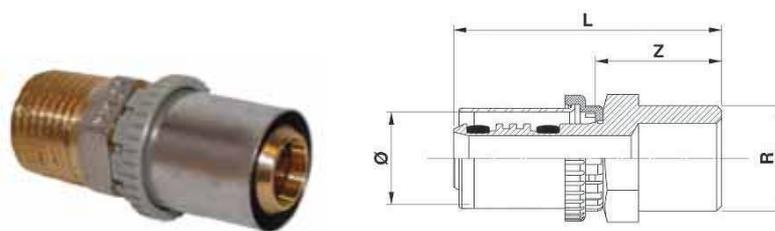
Profile clamp U-H-TH



code	Ø	Z	L1	L	
FK7PMR402	(40X4)X(25X2,5)	4,6	44,2	34,2	5
FK7PMR403	(40X4)X(32X3)	5,6	44,2	34,2	5
FK7PMR503	(50X4,5)X(32X3)	4,6	44,2	34,2	3
FK7PMR504	(50X4,5)X(40X4)	5,6	44,2	44,2	3
FK7PMR634	(63X6)X(40X4)	6,6	69,5	44,2	3
FK7PMR635	(63X6)X(50X4,5)	6,6	69,5	44,2	3
FK7PMR754	(75X7,5)X(40X4)	9	69	44	2
FK7PMR755	(75X7,5)X(50X4,5)	9	69	44	2
FK7PMR756	(75X7,5)X(63X6)	9	69	70	2

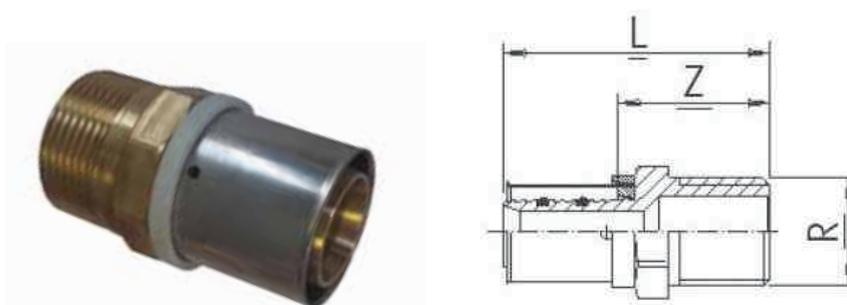
U profile clamp

MALE THREADED CONNECTOR SLEEVE



	Ø	R	L	Z	
FK9PMM016MPE	16X2	3/8"	51,6	23,5	10
FK9PMM116MPE	16X2	1/2"	53,1	25	10
FK9PMM216MPE	16X2	3/4"	54,1	26	10
FK9PMM122MP	20X2	1/2"	53,8	25	10
FK9PMM222MP	20X2	3/4"	54,8	26	10
FK9PMM322MP	20X2	1"	54,8	26	10
FK9PMM120MPE	20X2,25	1/2"	53,8	25	10
FK9PMM220MPE	20X2,25	3/4"	54,8	26	10
FK9PMM320MPE	20X2,25	1"	54,8	26	10
FK9PMM225MP	25X2,5	3/4"	61,5	26	10
FK9PMM325MP	25X2,5	1"	61,5	26	10
FK9PMM226MP	26X3	3/4"	56,3	26	10
FK9PMM326MP	26X3	1"	56,3	26	10
FK9PMM332MPE	32X3	1"	61,5	26	10
FK9PMM432MPE	32X3	1"1/4	67	31,5	10

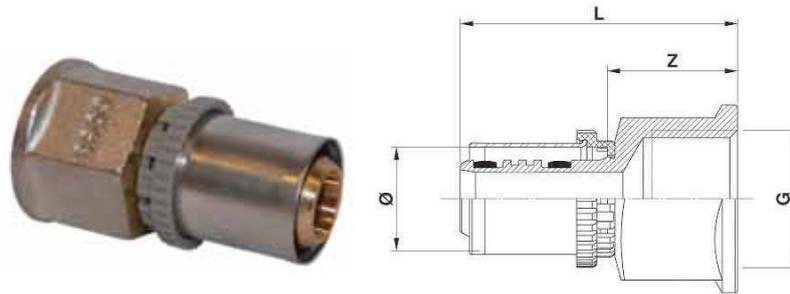
Profile clamp U-H-TH



code	Ø	R	Z	L	
FK7PM40M4	40x4	1"1/4	35,8	80	5
FK7PM50M5	50x4,5	1"1/2	37,8	82	3
FK7PM63M6	63x6	2"	40,5	110	3
FK7PM75M7	75x7,5	2"1/2	40	109	2

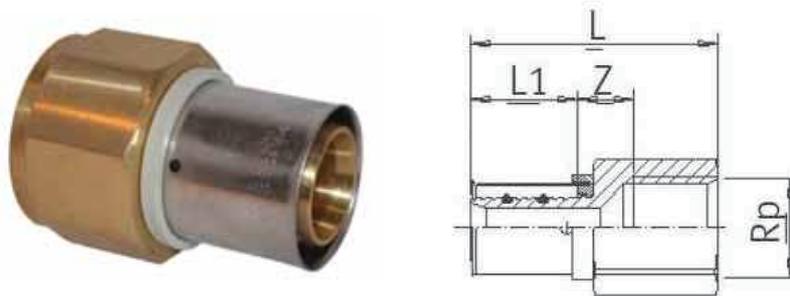
U profile clamp

MALE THREADED CONNECTOR SLEEVE



code	Ø	G	L	Z	
FK9PMF116MPE	16X2	1/2"	51,6	23,5	10
FK9PMF216MPE	16X2	3/4"	53,6	25,5	10
FK9PMF122MP	20X2	1/2"	52,3	23,5	10
FK9PMF222MP	20X2	3/4"	54,3	25,5	10
FK9PMF322MP	20X2	1"	60,3	31,5	10
FK9PMF120MPE	20X2,25	1/2"	52,3	23,5	10
FK9PMF220MPE	20X2,25	3/4"	54,3	25,5	10
FK9PMF320MPE	20X2,25	1"	60,3	31,5	10
FK9PMF225MP	25X2,5	3/4"	61	25,5	10
FK9PMF325MP	25X2,5	1"	67	31,5	10
FK9PMF226MP	26X3	3/4"	55,8	25,5	10
FK9PMF326MP	26X3	1"	61,8	31,5	10
FK9PMF332MPE	32X3	1"	67	31,5	10
FK9PMF432MPE	32X3	1"1/4	69	33,5	10

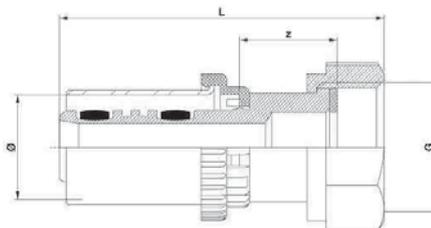
Profile clamp U-H-TH



code	Ø	Rp	Z	L1	L	
FK7PM40F5	40X4	1"1/2	13,8	78	44,2	5
FK7PM50F5	50X4,5	1"1/2	9,8	74	44,2	3
FK7PM63F6	63X6	2"	10,5	104	69,5	3
FK7PM75F7	75,7,5	2"1/2	16	112	69	2

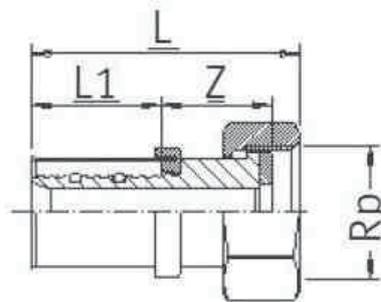
U profile clamp

PIPE UNION FITTING



code	Ø	G	Z	L	
FK9PBF016MPE	16X2	3/8"	15,2	48,9	10
FK9PBF116MPE	16X2	1/2"	15,2	50,6	10
FK9PBF216MPE	16X2	3/4"	17	52,6	10
FK9PBF122MPE	20X2	1/2"	15,2	51,3	10
FK9PBF222MPE	20X2	3/4"	17	53,3	10
FK9PBF120MPE	20X2,25	1/2"	15,2	51,3	10
FK9PBF220MPE	20X2,25	3/4"	17	53,3	10
FK9PBF325MPE	25X2,5	1"	22	68	10
FK9PBF326MPE	26X3	1"	22	62,8	10
FK9PBF432MPE	32X3	1"1/4	25,3	69	10

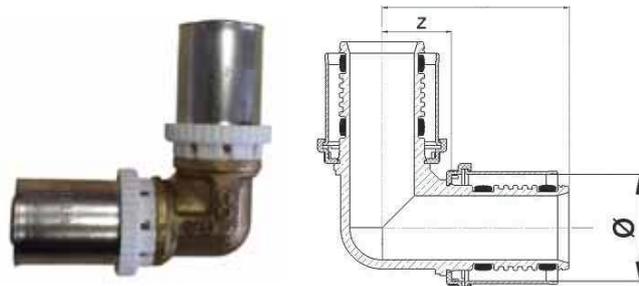
Profile clamp U-H-TH



code	Ø	Rp	Z	L	L1	
FK7PB40F5	40X4	1"1/2	31,3	85	44,2	5
FK7PB50F6	50X4,5	2"	31,3	87,5	44,2	3

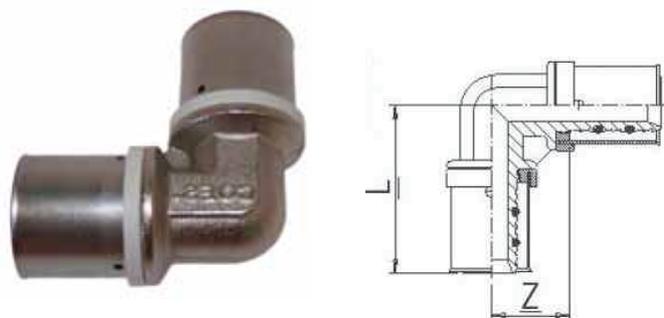
U profile clamp

90° PIPE/PIPE ELBOW



code	Ø	Z	L	
FK9PG1616MPE	16X2	15	43,1	10
FK9PG2222MPE	20X2	17	45,8	10
FK9PG2020MPE	20X2,25	17	45,8	10
FK9PG2525MP	25X2,5	20	55,5	10
FK9PG2626MP	26X3	20	50,3	10
FK9PG3232MPE	32X3	23	58,5	10

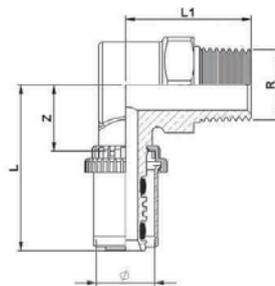
Profile clamp U-H-TH



code	Ø	Z	L	
FK7PG4040	40X4	29,8	74	5
FK7PG5050	50X4,5	36,8	81	3
FK7PG6363	63X6	58	121	2
FK7PG7575	75X7,5	58	127	2

U profile clamp

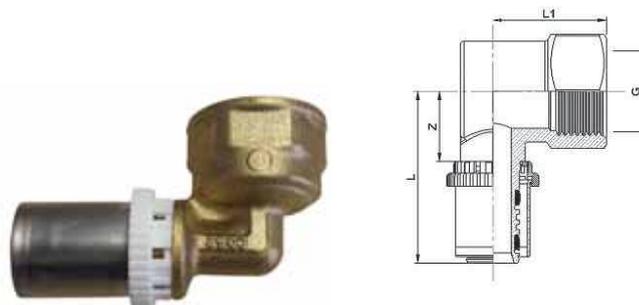
MALE THREADED-PIPE 90° ELBOW



code	Ø	L	Z	L1	R	
FK9PGM016MPE	16X2	46,9	18,8	35	3/8"	10
FK9PGM116MPE	16X2	46,9	18,8	35	1/2"	10
FK9PGM122MPE	20X2	47,6	18,8	37	1/2"	10
FK9PGM222MPE	20X2	51,1	22,3	37	3/4"	10
FK9PGM120MPE	20X2,25	47,6	18,8	37	1/2"	10
FK9PGM220MPE	20X2,25	51,1	22,3	37	3/4"	10
FK9PGM225MP	25X2,5	57,8	22,3	41	3/4"	10
FK9PGM325MP	25X2,5	60,8	25,3	49	1"	10
FK9PGM226MP	26X3	52,6	22,3	41	3/4"	10
FK9PGM326MP	26X3	55,6	25,3	49	1"	10
FK9PGM332MPE	32X3	60,8	60,8	49	1"	10

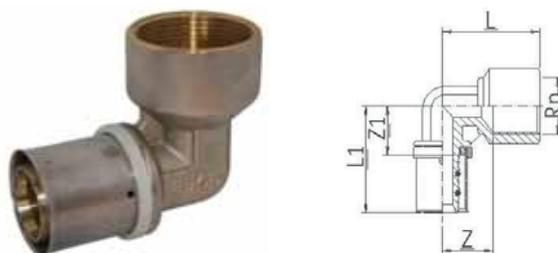
Profile clamp U-H-TH

FEMALE THREADED-PIPE 90° ELBOW



code	Ø	G	L	Z	L1	
FK9PGF116MPE	16X2	1/2	47	18,8	34	10
FK9PGF122MPE	20X2	1/2	48	18,8	34	10
FK9PGF222MPE	20X2	3/4	51	22,3	34	10
FK9PGF120MPE	20X2,25	1/2	48	18,8	34	10
FK9PGF220MPE	20X2,25	3/4	51	22,3	34	10
FK9PGF225MP	25X2,5	3/4	58	22,3	40	10
FK9PGF226MP	26X3	3/4	53	22,3	40	10
FK9PGF332MPE	32X3	1	61	25,3	45	10

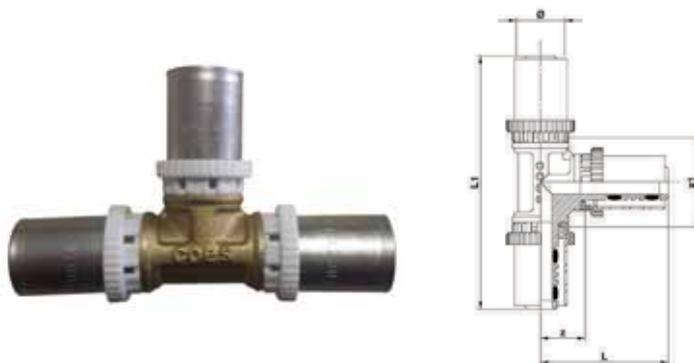
Profile clamp U-H-TH



code	Ø	Rp	Z	Z1	L	L1	
FK7PG40F5	40X4	1"1/2	40	32,8	60	77	5
FK7PG50F5	50X4,5	1"1/2	40	36,8	60	81	5

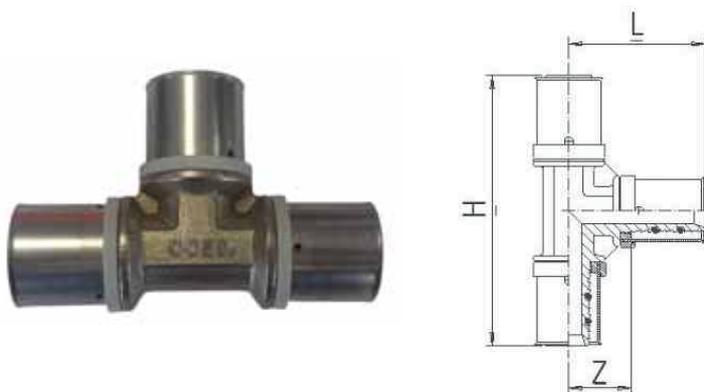
U profile clamp

TEE



code	Ø	L	Z	L3	Z3	
FK9PT161616MPE	16X2	43,1	15	86,2	30	10
FK9PT222222MPE	20X2	45,8	17	91,6	34	10
FK9PT202020MPE	20X2,25	45,8	17	91,6	34	10
FK9PT252525MP	25X2,5	55,5	20	111	40	10
FK9PT262626MP	26X3	50,3	20	100,6	40	10
FK9PT323232MPE	32X3	58,5	23	117	46	10

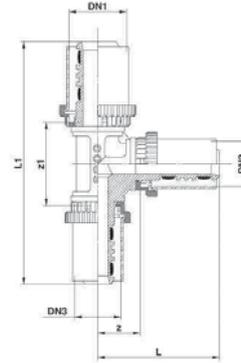
Profile clamp U-H-TH



code	Ø	Z	L	H	
FK7PT40X3	40X4	29,3	74	146	5
FK7PT50X3	50X4,5	36,8	81	155	3
FK7PT63X3	63X6	58	121	235	2
FK7PT75X3	75X7,5	58	127	250	1

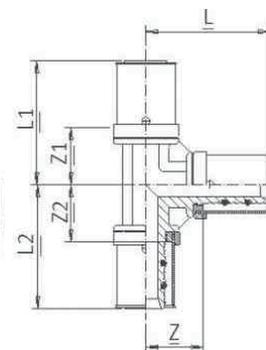
U profile clamp

PIPE/PIPE REDUCER TEE



code	DN1	DN2	DN2	z1	L1	z	L	
FK9PTR162216MPE	16X2	20X2	16X2	30	86,2	15	43,8	10
FK9PTR162016MPE	16X2	20X2,25	16X2	30	86,2	15	43,8	10
FK9PTR221616MPE	20X2	16X2	16X2	30	86,9	15	43,1	10
FK9PTR221622MPE	20X2	16X2	20X2	30	87,6	15	43,1	10
FK9PTR222216MPE	20X2	20X2	16X2	30	86,9	15	43,8	10
FK9PTR201616MPE	20X2,25	16X2	16X2	30	86,9	15	43,1	10
FK9PTR201620MPE	20X2,25	16X2	20X2,25	30	87,6	15	43,1	10
FK9PTR202016MPE	20X2,25	20X2,25	16X2	30	86,9	15	43,8	10
FK9PTR251616MPE	25X2,5	16X2	16X2	37	100,6	18,5	46,6	10
FK9PTR251625MP	25X2,5	16X2	25X2,5	37	108	18,5	46,6	10
FK9PTR252020MP	25X2,5	20X2,25	20X2,25	37	101,3	18,5	47,3	10
FK9PTR252025MP	25X2,5	20X2,25	25X2,5	37	108	18,5	47,3	10
FK9PTR253225MP	25X2,5	32X3	25X2,5	44	115	22	57,5	10
FK9PTR261616MP	26X3	16X2	16X2	37	95,4	18,5	46,6	10
FK9PTR261626MP	26X3	16X2	26X3	37	97,6	18,5	46,6	10
FK9PTR262222MP	26X3	20X2	20X2	37	96,1	18,5	47,3	10
FK9PTR262226MP	26X3	20X2	26X3	37	97,6	18,5	47,3	10
FK9PTR263226MP	26X3	32X3	26X3	44	104,6	22	57,5	10
FK9PTR321632MPE	32X3	16X2	32X3	44	115	22	50,1	10
FK9PTR322232MPE	32X3	20X2	32X2	44	115	22	50,8	10
FK9PTR322032MPE	32X3	20X2,25	32X3	44	115	22	50,8	10
FK9PTR322525MPE	32X3	25X2,5	25X2,5	44	115	22	57,5	10
FK9PTR322532MPE	32X3	25X2,5	32X3	44	115	22	57,5	10
FK9PTR322626MPE	32X3	26X3	26X3	44	109,8	22	52,3	10
FK9PTR322632MPE	32X3	26X3	32X3	44	115	22	52,3	10

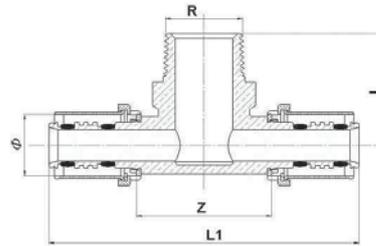
Profile clamp U-H-TH



code	Ø	Z	Z1	Z2	L	L1	L2	
FK7PTR352	(32X3)X(50X4,5)X(32X3)							3
FK7PTR424	(40X4)X(20X2,25)X(40X4)	30,5	20	20	55,4	57	64,5	5
FK7PTR454	(40X4)X(25X2,5)X(40X4)	30	22	22	62,9	64	66,5	5
FK7PTR433	(40X4)X(32X3)X(32X3)	30	26	26	62,9	64	70	5
FK7PTR434	(40X4)X(32X3)X(40X4)	30	26	26	62,9	64	70	5
FK7PTR555	(50X4,5)X(25X2,5)X(50X4,5)	35	27	27	69,2	69	71	3
FK7PTR545	(50X4,5)X(40X4)X(50X4,5)	37	32	32	79,3	61	76,5	3
FK7PTR634	(63X6)X(40X4)X(63X6)	45,8	39,5	39,5	93,8	90	109	2
FK7PTR757	(75X7,5)X(50X4,5)X(75X7,5)	54	45	46	99,1	98	114	1

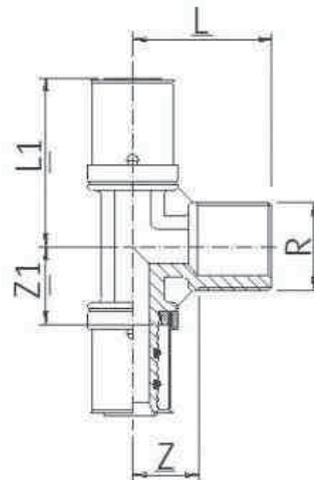
U profile clamp

MALE THREADED PIPE/PIPE TEE



code	Ø	R	
FK9PTM116MPE	16X2	1/2"	10
FK9PTM122MPE	20X2	1/2"	10
FK9PTM222MPE	20X2	3/4"	10
FK9PTM120MPE	20X2,25	1/2"	10
FK9PTM220MPE	20X2,25	3/4"	10
FK9PTM225MP	25X2,5	3/4"	10
FK9PTM325MP	25X2,5	1"	10
FK9PTM226MP	26X3	3/4"	10
FK9PTM326MP	26X3	1"	10
FK9PTM232MPE	32X3	3/4"	10
FK9PTM332MPE	32X3	1"	10

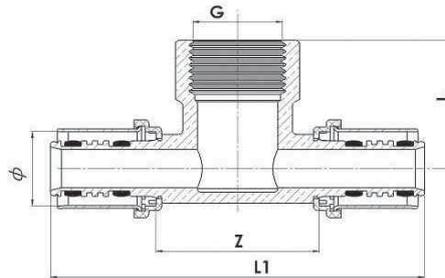
Profile clamp U-H-TH



code	Ø	R	Z	Z1	L	L1	
FK7PT75M4	75X7,5	1"1/4	43,5	45	87	228	1

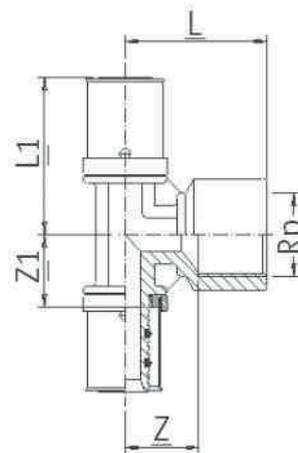
U profile clamp

FEMALE THREADED PIPE/PIPE TEE



code	Ø	G	L	L1	Z	
FK9PTF116MPE	16X2	1/2"	33,5	93,8	37,6	10
FK9PTF122MPE	20X2	1/2"	33,5	95,2	37,6	10
FK9PTF222MPE	20X2	3/4"	35,5	102,2	44,6	10
FK9PTF120MPE	20X2,25	1/2"	33,5	95,2	37,6	10
FK9PTF220MPE	20X2,25	3/4"	35,5	102,2	44,6	10
FK9PTF125MP	25X2,5	1/2"	35,5	108,6	37,6	10
FK9PTF225MP	25X2,5	3/4"	40	115,6	44,6	10
FK9PTF126MP	26X3	1/2"	35,5	98,2	37,6	10
FK9PTF226MP	26X3	3/4"	40	105,2	44,6	10
FK9PTF232MPE	32X3	3/4"	45	121,6	50,6	10
FK9PTF332MPE	32X3	1"	45	121,6	50,6	10

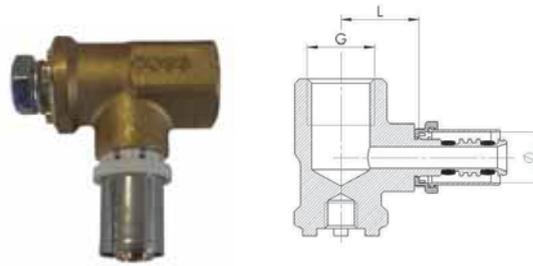
Profile clamp U-H-TH



code	Ø	Rp	Z	Z1	L	L1	
FK7PT40F2	40X4	3/4"	22	26,5	48	130	5
FK7PT50F3	50X4,5	1"	29	32	56	148	3

U profile clamp

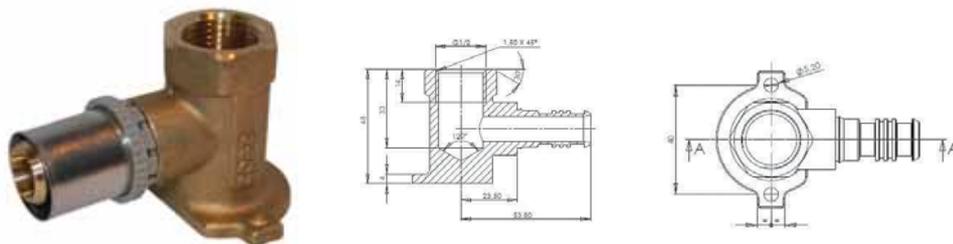
END FITTING



code	d	G	L	
FK9PFF16MPE	16X2	1/2"	25	10
FK9PFF22MPE	20X2	1/2"	25	10
FK9PFF20MPE	20X2,25	1/2"	25	10

Profile clamp U-H-TH

END FITTING WITH BRACKET



code	d	G	
FK9PSF116MPE	16X2	1/2"	10
FK9PSF216MPE	16X2	3/4"	10
FK9PSF122MPE	20X2	1/2"	10
FK9PSF222MPE	20X2	3/4"	10
FK9PSF120MPE	20X2,25	1/2"	10
FK9PSF220MPE	20X2,25	3/4"	10

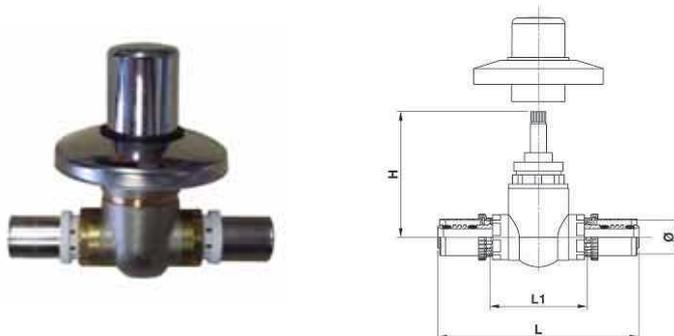
Profile clamp U-H-TH

REPAIR AND COMPENSATION COUPLING



code	d	
FK9PMFF1	1/2"	5
FK9PMFF2	3/4"	5
FK9PMFF3	1"	5
FK9PMFF4	1"1/4	5
FK9PMFF5	1"1/2	5
FK9PMFF6	2"	5

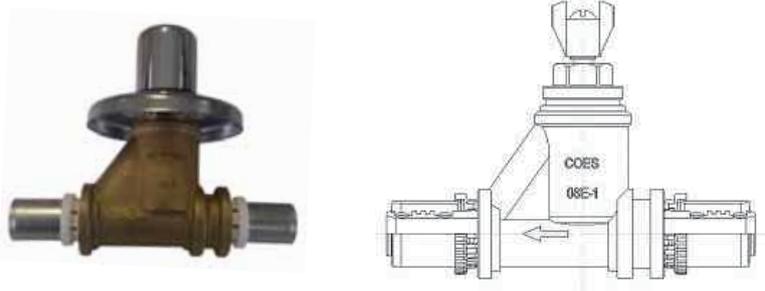
BALL VALVE WITH COUPLINGS



code	Ø	L	L1	H	
FK9VS16MPE	16X2	108,7	52,5	68,5	1
FK9VS22MPE	20X2	110,1	52,5	68,5	1
FK9VS20MPE	20X2,25	110,1	52,5	68,5	1

Profile clamp U-H-TH

STOP TAP



code	Ø	
FK9RC16MPE	16X2	1
FK9RC22MP	20X2	1
FK9RC20MPE	20X2,25	1
FK9RC25MPE	25X2,5	1
FK9RC26MPE	26X3	1

Profile clamp U-H-TH

EXTENSION CORD



code	
C26606063	1

CHROME-PLATED SLEEVE



code	
C26606020	1

CHROME-PLATED HEAD



code	
C26606030	1

SHORT STICK 3/4"



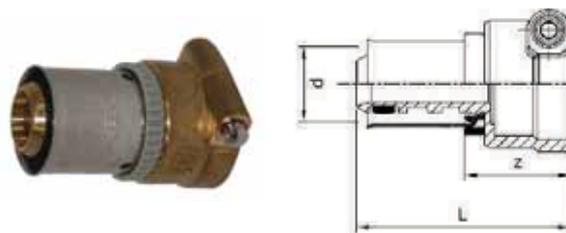
code	
C26606034	1

COPLANAR MANIFOLD COMPLETE WITH BUILT-IN CISTERN



code	L	H	prof.	P.max	lc	ld	Zd	
FK8KF0001	220	160	72	85	60	38	30	1

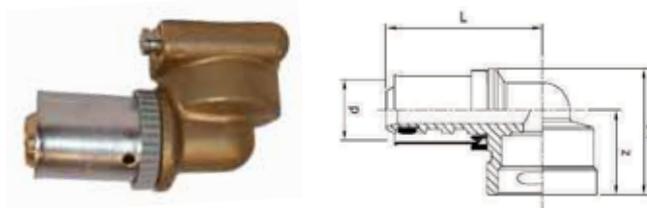
STRAIGHT FITTING, QUICK CONNECTION FOR PRESSFITTING



code	d	L	Z	
FK8KM16FF	16X2	43	21,2	10
FK8KM20FF	20X2,25	43,6	21,2	10
FK8KM25FF	25X2,5	-	-	10

U profile clamp

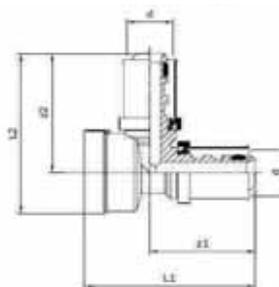
90° BEND FITTING, QUICK CONNECTION FOR PRESSFITTING



code	d	L	L1	Z	
FK8KG16FF	16X2	39	32,5	20	10
FK8KG20FF	25X2,5	40	34	22	10

U profile clamp

TEE FITTING, QUICK CONNECTION FOR PRESSFITTING



code	d	L1	L2	Z1	Z2	
FK8KT16FF	16X2	57	53	36	38,8	10

U profile clamp

POLISHED CHROME PLATE



code		
FK8KF0010M	With knobs*	1
FK8KF0010N	Without knobs**	1

ROD EXTENSION AND SLEEVE



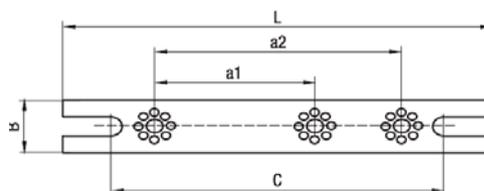
code	
FK8KF0010P	1

FLEXIBLE BALL RODSLEEVE CHROMED



code	
FK8KF0010S	1

WALL-MOUNTING BRACKET FOR END FITTINGS



code	a1/a2	
F07KDZ003	100÷155mm	1

TWO-BRANCHES MANIFOLD

code	d	R	
FKMC2VM216	16X2	3/4"	1

THREE-BRANCHES MANIFOLD

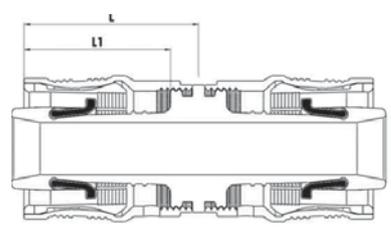
code	d	R	
FKMC3VM216	16X2	3/4"	1

FOUR-BRANCHES MANIFOLD

code	d	R	
FKMC4VM216	16X2	3/4"	1

SLEEVE FOR PIPE/PIPE CONNECTION

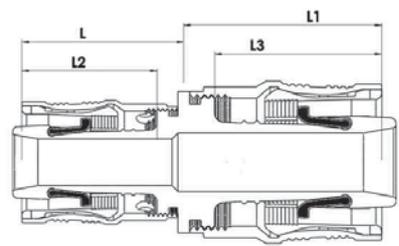
NEW



code	Ø	L	L1	
FK10PMPF1616	16X2	34,3	29	20
FK10PMPF2222	20X2	34,3	29	20
FK10PMPF2626	26X3	42,0	35,9	10

REDUCER SLEEVE FOR PIPE/PIPE CONNECTION

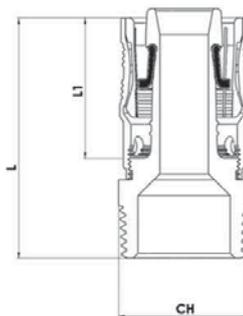
NEW



code	Ø	L	L1	L2	L3	
FK10PMPFR2216	(20X2)X(16X2)	34,3	34,3	29	29	20
FK10PMPFR2616	(26X3)X(16X2)	34,3	42	29	35,9	10
FK10PMPFR2622	(26X3)X(20X2)	34,3	42	29	35,9	10

MALE THREADED CONNECTOR SLEEVE

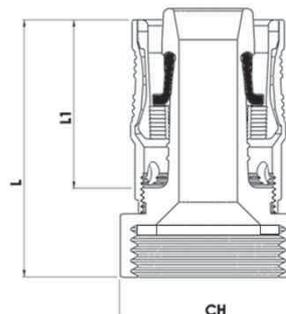
NEW



code	Ø	L	L1	R	CH	
FK10MPFM116	16X2	50,9	29	1/2"	22	20
FK10MPFM122	20X2	50,9	29	1/2"	24	20
FK10MPFM222	20X2	50,9	29	3/4"	27	20
FK10MPFM226	26X3	59,4	36	3/4"	30	15
FK10MPFM326	26X3	64,4	36	1"	34	10

MALE THREADED CONNECTOR SLEEVE

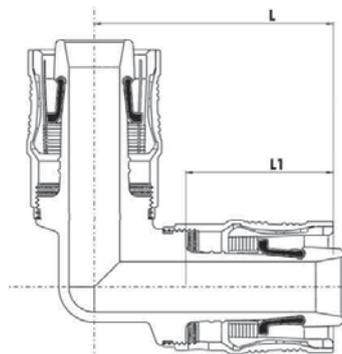
NEW



code	Ø	L	L1	R	CH	
FK10MPFF116	16X2	45	29,03	1/2"	24	20
FK10MPFF122	20X2	45	29,03	1/2"	24	20
FK10MPFF222	20X2	45	29,03	3/4"	30	20
FK10MPFF226	26X3	52	35,90	3/4"	30	15
FK10MPFF326	26X3	55	35,90	1"	38	15

90° PIPE/PIPE ELBOW

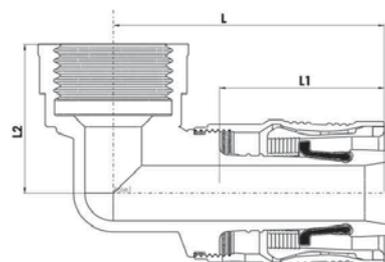
NEW



code	Ø	L	L1	
FK10PGPF1616	16X2	45	29	15
FK10PGPF2222	20X2	47	29	10
FK10PGPF2626	26X3	58	35,9	5

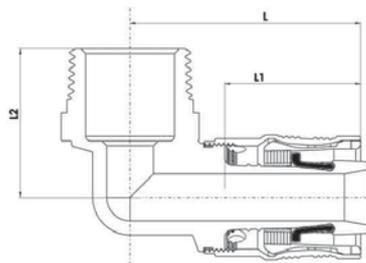
FEMALE THREADED-PIPE 90° ELBOW

NEW



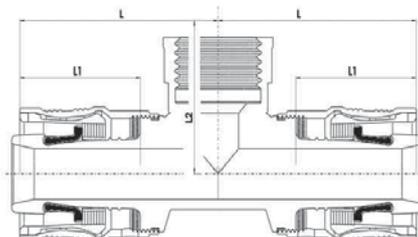
code	Ø	L	L1	L2	R	
FK10PGPFF116	16X2	29	47,8	24,9	1/2"	15
FK10PGPFF122	20X2	29	47,8	26,9	1/2"	10
FK10PGPFF222	20X2	29	51,5	26,9	3/4"	10
FK10PGPFF226	26X3	35,9	59,3	29,9	3/4"	5

MALE THREADED-PIPE 90° ELBOW

NEW

code	Ø	L	L1	L2	R	
FK10PGPFM116	16X2	46,5	29	29,6	1/2"	15
FK10PGPFM122	20X2	46,5	29	31,6	1/2"	10
FK10PGPFM222	20X2	49,3	29	31,6	3/4"	10
FK10PGPFM226	26X3	57	35,9	34,6	3/4"	10
FK10PGPFM326	26X3	61,3	35,9	41,6	1"	5

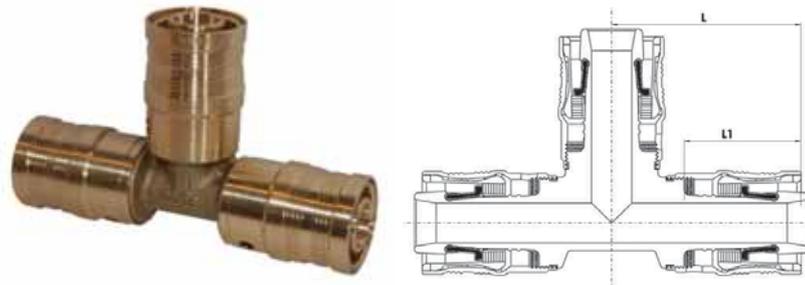
FEMALE THREADED PIPE-PIPE TEE

NEW

code	Ø	L	L1	L2	R	
FK10PTPFF116	16X2	29	47,8	24,9	1/2"	10
FK10PTPFF122	20X2	29	47,8	26,9	1/2"	10
FK10PTPFF222	20X2	29	51,5	26,9	3/4"	10
FK10PTPFF226	26X3	35,9	59,3	29,9	3/4"	5

PIPE/PIPE TEE

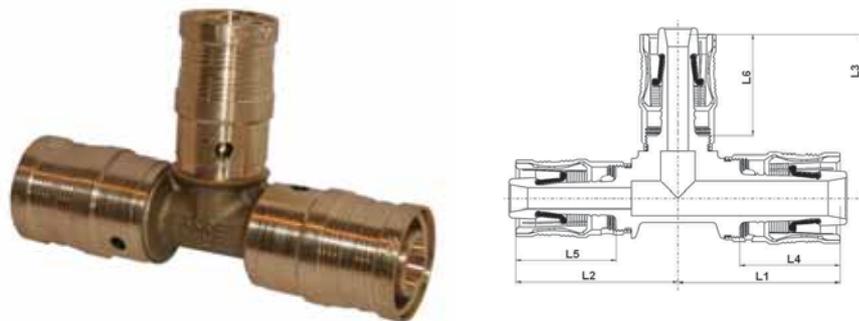
NEW



code	Ø	L	L1	
FK10PTPF16	16X2	45	29	10
FK10PTPF22	20X2	47	29	10
FK10PTPF26	26X3	58	35,9	5

PIPE/PIPE REDUCER TEE

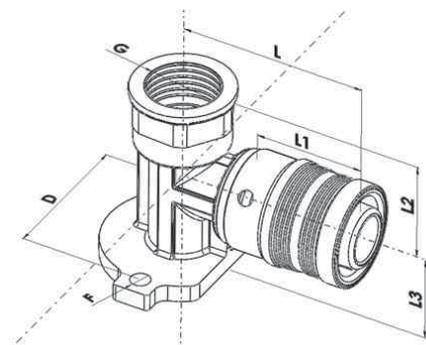
NEW



code	Ø	L1	L2	L3	L4	L5	L6	
FK10TPPFR221616	(20X2)X(16X2)X(16X2)	47	47	47	29	29	29	10
FK10TPPFR221622	(20X2)X(16X2)X(20X2)	47	47	47	29	29	29	10
FK10TPPFR222216	(20X2)X(20X2)X(16X2)	47	47	47	29	29	29	10
FK10TPPFR261616	(26X3)X(16X2)X(16X2)	57,8	50	50	35,9	29	29	5
FK10TPPFR261626	(26X3)X(16X2)X(26X3)	57,8	57,8	50	35,9	35,9	29	5
FK10TPPFR262222	(26X3)X(20X2)X(20X2)	57,8	50	50	35,9	29	29	5
FK10TPPFR262226	(26X3)X(20X2)X(26X3)	57,8	57,8	50	35,9	35,9	29	5

END FITTING WITH BRACKET

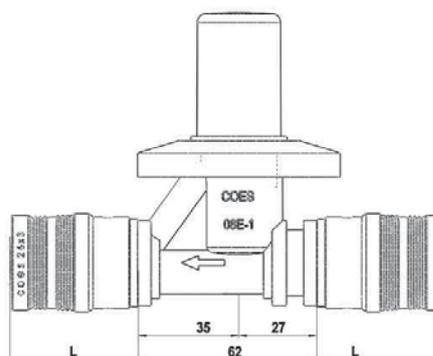
NEW



code	Ø	L	L1	L2	L3	Rp	F	D	
FK10SPFF116	16X2	49,8	29	26,5	23	1/2"	5,2	40	10
FK10SPFF122	20X2	49,8	29	26,5	23	1/2"	5,2	40	10
FK10SPFF222	20X2	49,8	29	26,5	23	3/4"	5,2	40	10

STOP TAP

NEW



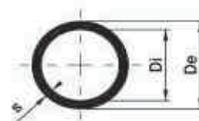
code	Ø	Thread*	L	
FK10RCPF16	16X2	3/4"	35,5	2
FK10RCPF22	20X2	3/4"	35,5	2
FK10RCPF26	26X3	3/4"	44,4	2



MULTILAYERS PIPES PE-Xb/AL/PE-HD **Pag.50**

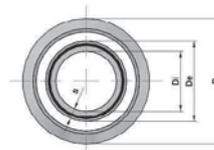
PRESSFITTING FITTINGS **Pag.51**

MULTILAYER PIPE WITH GAS BARRIER



code	de	di	s		
FK9KRS160HGAS	16	12	2	100	2200
FK9KRS220HGAS	20	16	2	100	1100
FK9KRS260GGAS	26	20	3	50	550

PRE-INSULATED WITH CORRUGATED SHEAT



code	de	di	s	D		
FK9KCG160GGAS	16	12	2	25	50	750
FK9KCG220GGAS	20	16	2	28	50	700
FK9KCG260GGAS	26	20	3	35	50	700

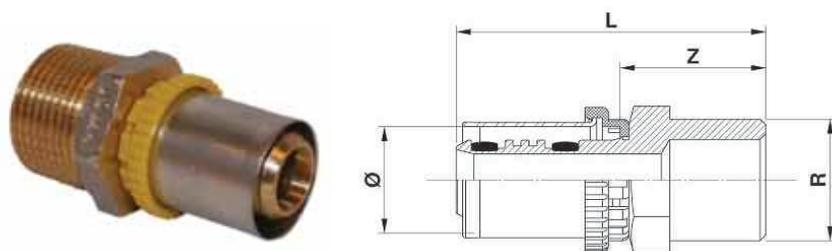
SLEEVE FOR PIPE/PIPE CONNECTION



code	Ø		L	
FK9PM1616GAS	16X2	6	62,2	10
FK9PM2222GAS	20X2	6	63,6	10
FK9PM2626GAS	26X3	6	66,6	10

U - H - TH profile clamp

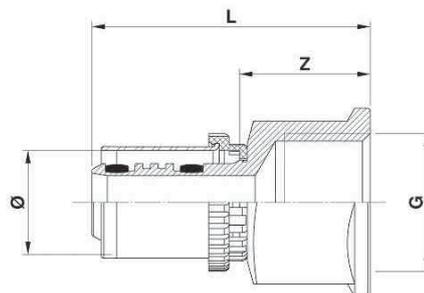
MALE THREADED CONNECTOR SLEEVE



code	Ø	R	Z	L	
FK9PMM116GAS	16X2	1/2"	25	67	10
FK9PMM222GAS	20X2	3/4"	26	104	10
FK9PMM326GAS	26X3	1"	26	156	10

U - H - TH profile clamp

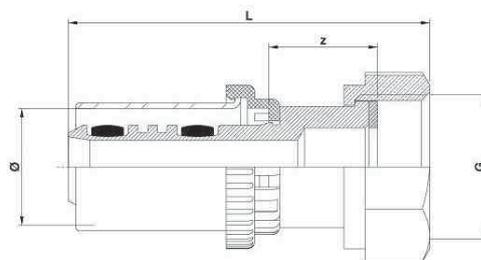
FEMALE THREADED CONNECTOR SLEEVE



code	Ø	G	Z	L	
FK9PMF116GAS	16X2	1/2"	23,5	51,6	10
FK9PMF222GAS	20X2	3/4"	25,5	54,3	10
FK9PMF326GAS	26X3	1"	31,5	61,8	10

U - H - TH profile clamp

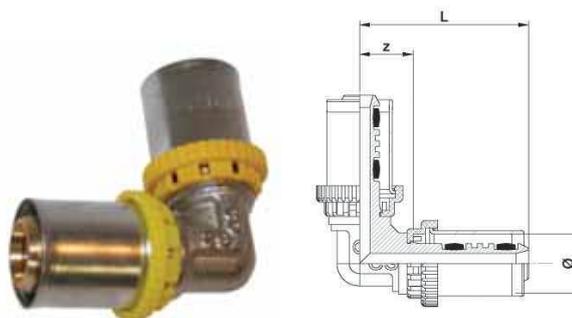
PIPE UNION FITTING



code	Ø	R	Z	L	
FK9PBF116GAS	16X2	1/2"	15,2	50,6	10
FK9PBF222GAS	20X2	3/4"	17	53,3	10
FK9PBF326GAS	26X3	1"	22	62,8	10

U - H - TH profile clamp

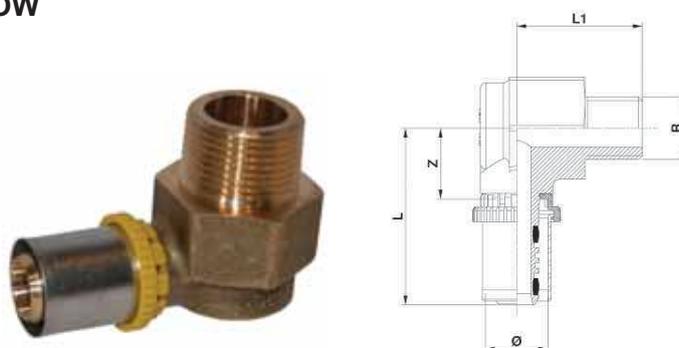
90° PIPE/PIPE ELBOW



code	Ø	Z	L	
FK9PG1616GAS	16X2	15	43,1	10
FK9PG2222GAS	20X2	15	43,8	10
FK9PG2626GAS	26X3	18	48,3	10

U - H - TH profile clamp

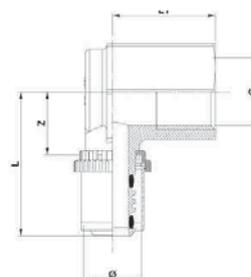
MALE THREADED-PIPE 90° ELBOW



code	Ø	R	L	Z	L1	
FK9PGM116GAS	16X2	1/2"	46,9	18,8	33	10
FK9PGM222GAS	20X2	3/4"	51,1	22,3	36	10
FK9PGM326GAS	26X3	1"	55,6	25,3	48	10

U - H - TH profile clamp

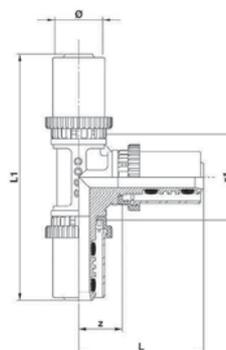
FEMALE THREADED-PIPE 90° ELBOW



code	Ø	G	Z	L	L1	
FK9PGF116GAS	16X2	1/2"	18,2	46,9	33	10
FK9PGF222GAS	20X2	3/4"	22,3	51,1	36	10

U - H - TH profile clamp

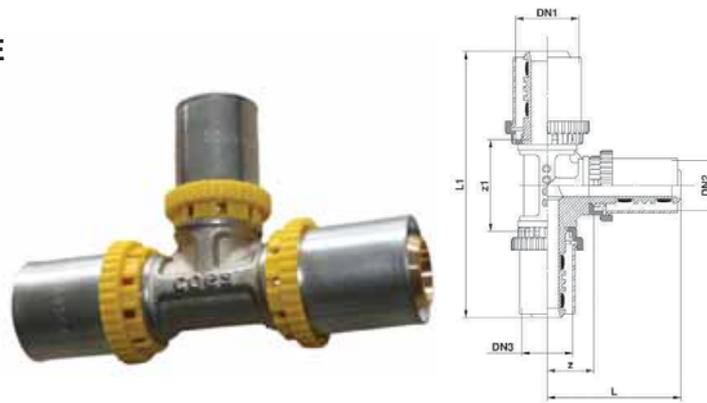
PIPE/PIPE TEE



code	Ø	Z	L	Z1	L1	
FK9PT161616GAS	16X2	15	43,1	30	86,2	10
FK9PT222222GAS	20X2	15	43,8	30	87,6	10
FK9PT262626GAS	26X3	19	48,8	37	97,6	10

U - H - TH profile clamp

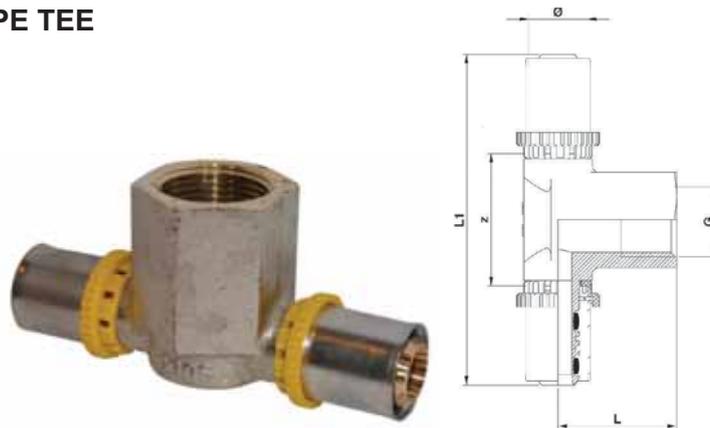
PIPE/PIPE REDUCER TEE



code	DN1/DN2/DN3	Z1	L1	Z	L	
FK9PTR162216GAS	(16X2)X(20X2)X(16X2)	30	86,2	15	43,8	10
FK9PTR221616GAS	(20X2)X(16X2)X(16X2)	30	86,9	15	43,1	10
FK9PTR221622GAS	(20X2)X(16X2)X(20X2)	30	87,6	15	43,1	10
FK9PTR262222GAS	(26X3)X(20X2)X(20X2)	37	96,1	18,5	47,3	10
FK9PTR262226GAS	(26X3)X(20X2)X(26X3)	37	97,6	18,5	47,3	10

U - H - TH profile clamp

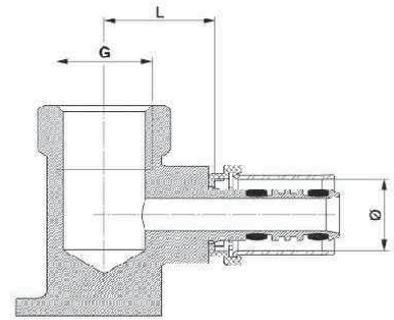
FEMALE THREADED PIPE/PIPE TEE



code	Ø	G	L	L1	Z	
FK9PTF116GAS	16X2	1/2"	33	93,8	37,6	10
FK9PTF222GAS	20X2	3/4"	36	102,2	44,6	10

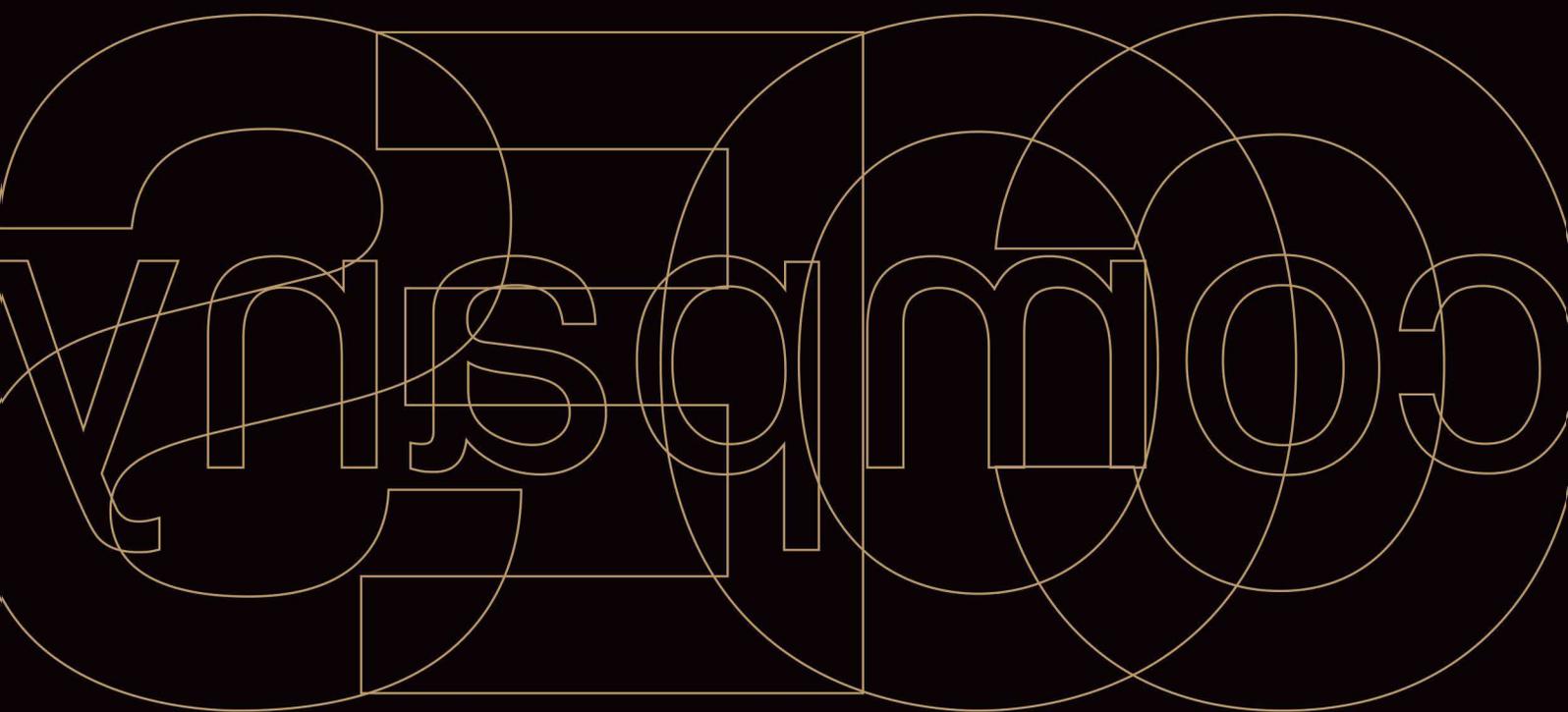
U - H - TH profile clamp

END FITTING WITH BRACKET



code	Ø	G	L	
FK9PSF116GAS	16X2	1/2"	25	10
FK9PSF222GAS	20X2	3/4"	25	10

U - H - TH profile clamp



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INDUSTRIE COMPOSIZIONE STAMPATI S.r.l.

Registered Office

Strada Prov.le per Gioia
Centro Aziendale Quercete
81016 **SAN POTITO SANNITICO** (CE)
Part. IVA: IT 03629690615

Headquarter and Building Division Plant

Via Caduti del Lavoro, 9/A
20096 - **Pioltello** (MI) Italy
tel. +39 02 921361 - fax +39 02 92136227

Infrastructure Division Plant

Via degli Artigiani, 27 località Palude
06024 - **Gubbio** (PG) Italy
tel. +39 075 6210501

info@coes.it

www.coescompany.com



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