

The copper pipe system

Overview

Introduction This section contains specifications and an overview of the pipes and components as well as the accessories and tools forming part of our copper pipe system.

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The copper pipe system
Preinsulated copper pipes

Application

The copper pipe system is a complete transmission and distribution system for district heating and cooling as well as cold and hot domestic water.

All specifications in section 7 of this catalogue are based on:

Max. operating pressure = 25 bar

Max. temperature difference when applying design rules: $\Delta t = 120^{\circ}\text{C}$

Continuous operating temperature = 140°C

Max. temperature (short-term) = 150°C

Max. external temperature load (casings) = 50°C

The copper pipe system is applicable for all installation methods, except the E-Comp method.

In connection with other conditions please contact LOGSTOR's technicians.

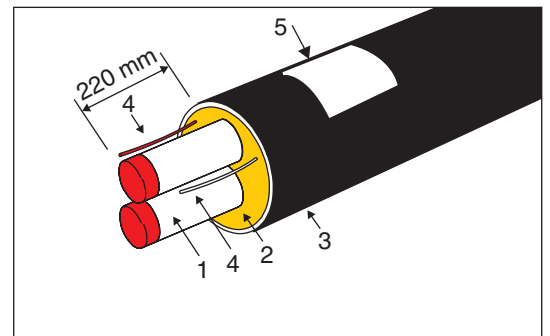
As regards corrosion resistance and requirements to the water quality, see Design Manual or contact LOGSTOR.

Contact local authorities for approvals.

Description

A preinsulated copper pipe consists of:

Pos.	Part	Material
1	Service pipe (1 or 2)	Copper
2	Insulation	Polyurethane foam
3	Outer casing	Polyethylene, PE-HD
4	Wires for surveillance	Copper (one is tinned)
5	Pipe label	



Copper pipes

Type:	Soft, drawn, seamless pipes designed for capillary soldering
Dimensions:	In accordance with EN 12449
Material:	In accordance with EN 12449
Copper content:	99.85% weight
P-content:	0.015 - 0.040% weight
Ultimate stress:	210-270 N/mm ²
Elongation at break:	Min. 40%
Hardness:	Vicker's hardness, approx. 55 HV
Inspection certificate:	EN 10204 - 3.1.B

Insulation

Polyurethane foam:	Properties: Minimum as required in EN 253 Calculated continuous operating temperature (CCOT): $> 140^{\circ}\text{C}$ for 30 years. Maximum short-term operating temperature: 150°C
Blowing agent:	Cyclopentane
Insulating property:	Thermal conductivity (50°C): $< 0.027 \text{ W/mK}$

The copper pipe system

Preinsulated copper pipes

Outer casing	Polyethylene:	PEHD, bimodal (min. PE 80, ISO 12162) Properties: Minimum as required in EN 253 All parts are fully weldable within the melt flow index: MFR variation ≤ 0.5 g/10 min
	Thermal stability:	Calculated continuous surface temperature: $\geq 50^\circ$ C for 30 years. Oxydation induction time (OIT): > 30 min at 210° C
	Resistance against crack formation:	Stress crack resistance (notch sensibility): > 3000 h (full notch, 4 MPa, 80° , EN 253/150 16770) Rapid crack propagation (cold sensibility) > 5 bar (0° C, ISO 13477)
	Internal surface treatment:	All outer casings are corona treated during production. This ensures an optimum adhesion between casing and insulation.

Finished pipes	All pipes are as a minimum produced according to EN 253, but with a wider field of application:
	The calculated continuous operating temperature is 140° C for 30 years. The maximum short peak operating temperature is 150° C. The calculated continuous surface temperature is 50° C for 30 years.
	Free service pipe end: 220 mm \pm 10 mm Lengths delivered: 12 m

Surveillance system	The copper pipes are delivered with 2 copper wires, embedded in insulation (Nordic System). Wires: 1.5 mm ² copper wires (one is tinned) Distance to steel pipe: 15 mm Position in top: ± 3 -20 cm from 12 o'clock position
	The embedded copper wires are the backbone of the electronic surveillance systems which are available for most of our pipelines.
	See description in section 16 of this manual.

The copper pipe system

Preinsulated copper pipes

Application

Preinsulated copper pipes are available in three variants for common construction work within district heating and cooling as well as transmission of hot and cold domestic water.

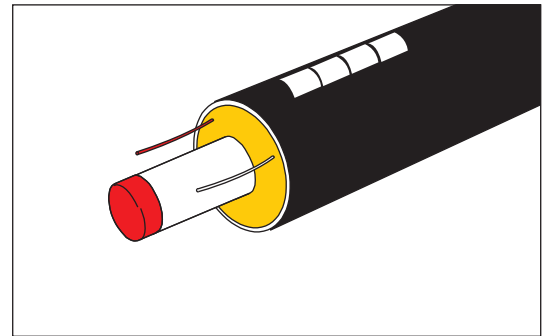
- Single pipe; one service pipe in one casing
- TwinPipe; two service pipes of the same dimension in one casing
- Double pipe; two service pipes with different dimensions in one casing (Primarily hot domestic water with circulation).

All preinsulated copper pipes are 12 m long and supplied with embedded copper wires for surveillance.

Single pipe

Component No. 2000

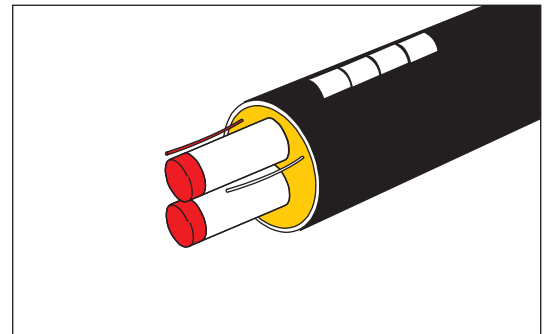
Copper pipe		Outer casing	
ø out.	wall thickness	ø out.	wall thickness
mm	mm	mm	mm
22	1.0	90	3.0
28	1.2	90	3.0
35	1.5	90	3.0
42	1.5	110	3.0
54	1.5	125	3.0
70	2.0	140	3.0
88	2.5	160	3.0



TwinPipe

Component No. 2090

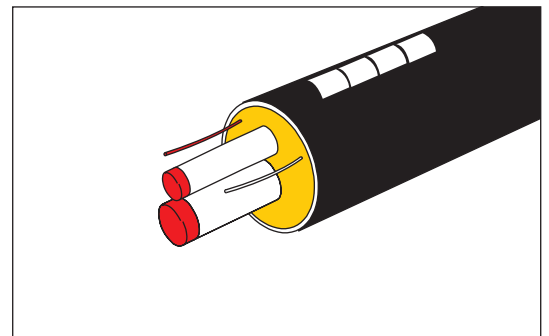
Copper pipe		Outer casing		Distance between pipes
ø out.	thick.	ø out.	thick.	
mm	mm	mm	mm	
22-22	1.0	125	3.0	10
28-28	1.2	140	3.0	10
35-35	1.5	140	3.0	10
42-42	1.5	160	3.0	10
54-54	1.5	200	3.0	10



Double pipe

Component No. 2090

Copper pipe		Outer casing		Distance between pipes
ø out.	thick.	ø out.	thick.	
mm	mm	mm	mm	
28-22	1.2/1.0	110	3.0	6
35-22	1.5/1.0	110	3.0	6
42-22	1.5/1.0	125	3.0	6
54-28	1.5/1.2	140	3.0	6
70-28	2.0/1.2	160	3.0	6



The copper pipe system

Soldering fittings

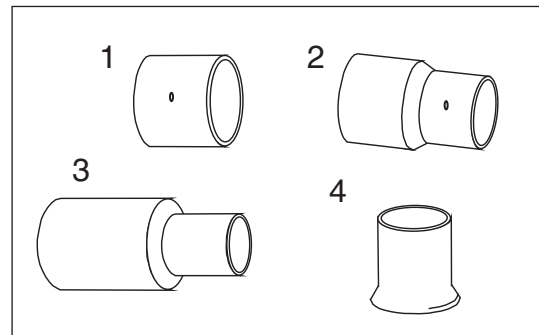
Application

To make joints or branches with the copper pipe system LOGSTOR has a number of soldering fittings, of which some are specially made with a major wall thickness in order to ensure components against high axial stresses.

Description

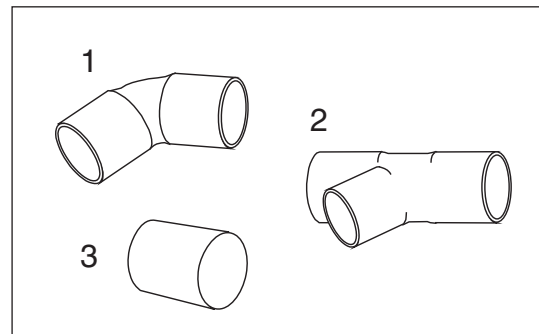
Special soldering fittings:

1. Straight joint
2. Reducing joint
3. Steel-copper transition
4. Saddle pipe piece



Standard soldering fittings:

1. 45° or 90° bend
2. T-piece
3. End joint



Materials

Special soldering fittings:	1, 2, and 4: 3; St/Cu:	EN 12449, Cu-DHP No. CW 024 A Steel part: P235 T1, EN 10217-1
Standard soldering fittings:		EN 12449, Cu-DHP No. CW 024 A.

**The copper pipe system
Soldering fittings**

Component overview Component numbers:
 - Straight joint: 1100
Special soldering fittings - Reducing joint: 1105
 - Saddle pipe piece: 1100
 - Steel/copper transition: 6880

Copper pipe Dim. ø out. mm	Straight joint	Reducing-joint (for ø mm) *	Transition steel/copper (std. ø mm)	Saddle pipe piece ø mm branch dimension						
				18**)	22	28	35	42	54	70
22	x	(15) x	(26,9) x	x						
28	x	(22) x	(33,7) x	x	x					
35	x	(28) x	(42,4) x	x	x	x				
42	x	(32) x	(48,3) x	x	x	x	x			
54	x	(42) x	(60,3) x	x	x	x	x	x		
70	x	(54) x	(76,1) x	x	x	x	x	x	x	
88	x	(70) x	(88,9) x	x	x	x	x	x	x	x

*) One reduction step per pipe length is allowed.

***) Only for branching with CuFlex (see section 3.4)

Component overview Component numbers:
 - 45° and 90° bend: 1110
Standard soldering fittings - End fitting: 1100
 - T-piece: 1100

Dim. Copper pipe ø out. mm	45° bend	90° bend	End fitting	T-pieces ø mm branch dimension				
				18 *)	22	28	35	42
22	x	x	x	x	x			
28	x	x	x	x	x	x		
35	x	x	x	x	x	x	x	
42	x	x	x	x	x	x	x	x
54	x	x	x					
70	x	x						
88	x	x						

*) Only for CuFlex.

Accessories Soldering material for capillary soldering:

- Copper-phosphorus soldering material with 5% silver content. Packet with 500 g. Product No. 9050 0000 027 010.

To order soldering material separately and not included see "Calculation of soldering material" section 15.3 in the Handling & Installation Manual.

The copper pipe system

Press couplings

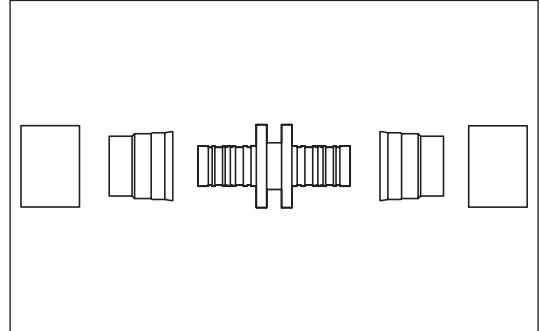
Application

To join pipes and preinsulated components press couplings may be used as an alternative to soldering.

Description

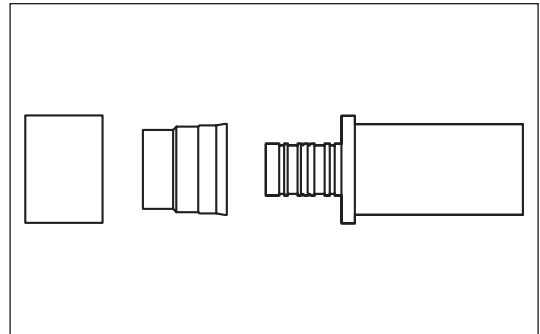
Press coupling for straight joints.

Component No. 6000



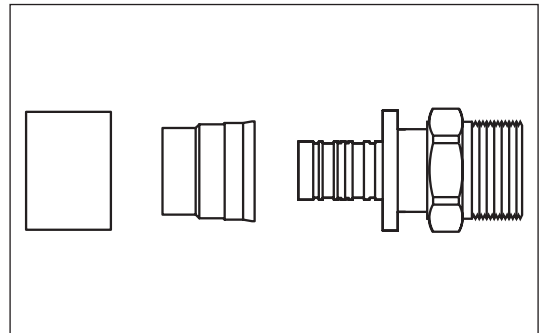
Weld coupling, transition from steel to copper.

Component No. 6000



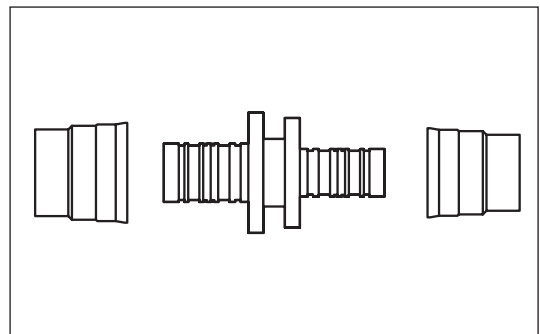
Threaded coupling, house installation.

Component No. 6000



Reduction coupling.

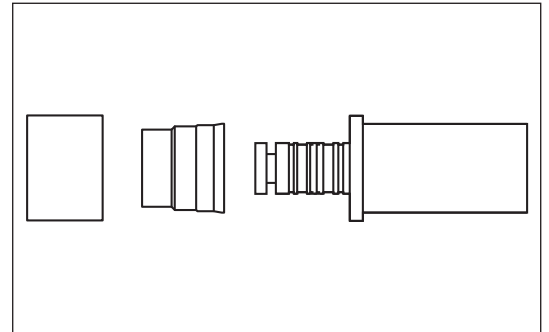
Component No. 6000



The copper pipe system
Press couplings

Description,
continued

Closed coupling.
Component No. 6000



Materials

Press fittings for copper consist of:

1. Base unit: Brass or red brass dependent on the dimension
2. Press ring: Brass
3. Squeezing ring: Brass

The base unit of the weld coupling and the closed coupling is made of weldable steel.

Component
overview

Copper pipe ø out. mm	Straight coupling	Weld coupling steel ø mm	Threaded coupling 3/4" male	Reduction coupling	Closed coupling
18	x	(26.9) x	x		(26.9) x
22	x	(26.9) x	x	(18) x	(26.9) x
28	x	(33.7) x	x (+1")	(22) x (18) x	(33.7) x
35	x	(42.4) x			(42.4) x
42	x	(42.4/48.3) x			
54	x	(60.3) x			

The copper pipe system

Straight casing joints

Casing joint types

All LOGSTOR casing joints for foaming can be used for the copper pipe system, see section 2.2.

However, for BandJoints on TwinPipes and double pipes a supplementary set of accessories are required:

- BandJoint ø 125-200, see section 2.2.2
- BandJoint ø 225-630, see section 2.2.3

Foam pack numbers for single pipes, see the relevant casing joints in section 15.

Foam pack numbers for TwinPipes and double pipes, see the relevant casing joints in the TwinPipe section, 15.3.

The copper pipe system

Horizontal directional changes

Bend types

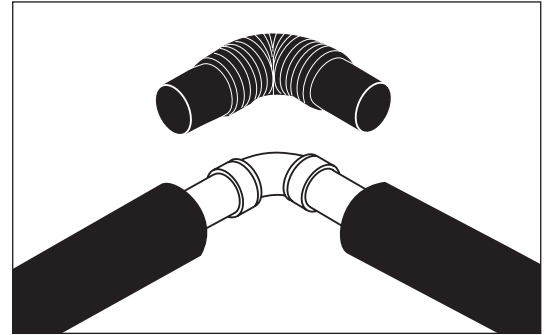
There are three possibilities of horizontal directional changes with the copper pipe system :

- 90° joint bend
- On-site curved pipe
- 90° preinsulated bend

SteelJoint, 90°

90° directional change is carried out with a combination of 90° soldering joint and 90° joint bend.

See section 2.3.2.



Alternative

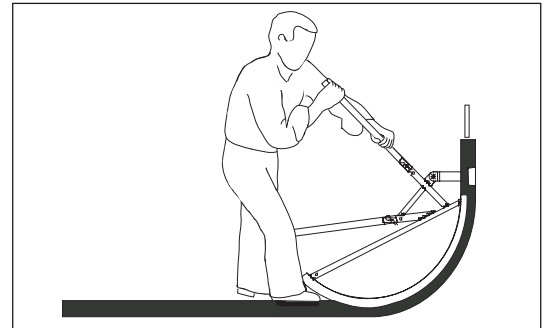
For angles of max. 45° SXBJoints may be used as an alternative; it must however be ensured that no harmful bending impacts arise.

On-site curved pipe

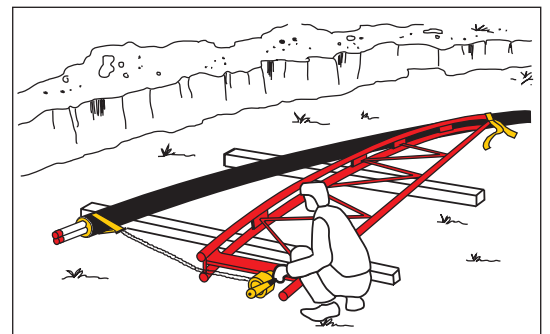
Ordinary preinsulated copper pipes can be bent on site by means of a special tool. (See section 17.6.5)

(Single pipes can also be bent vertically).

ø 90 mm



ø 90 - 160 mm



The copper pipe system

Horizontal preinsulated bends, 90°

Application

The preinsulated 90° bends in this section are used for directional changes.

If preinsulated bends with other degree measures are required, it must be ascertained that no harmful bending impacts arise.

90° bends are applicable for all relevant installation methods.

Description

Preinsulated horizontal bends are delivered for operating pressure 25 bar.

The copper pipes are bent mechanically.

All bends have embedded copper wires for surveillance.

Materials

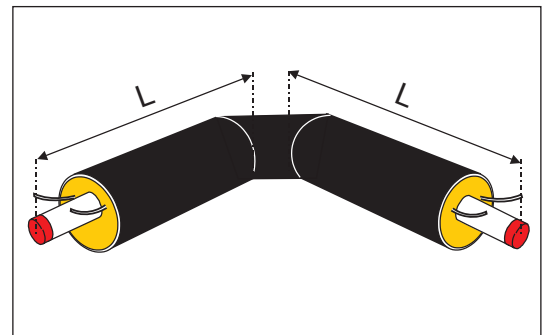
Copper pipes: Hard copper. EN 12449, Cu-DHP No. CW 024A

Other materials as for straight pipes.

**Component overview/
measurements**

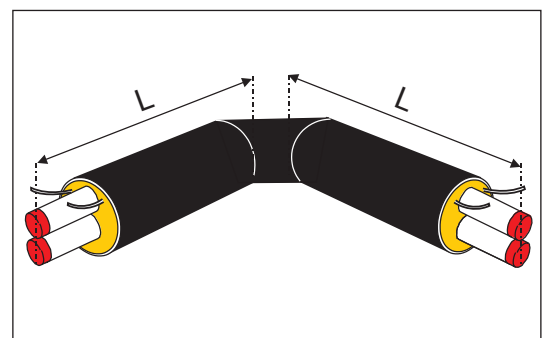
Single pipe, component No. 2500

Copper pipe ø out. mm	Outer casing ø mm	L mm
22	90	1000
28	90	1000
35	90	1000
42	110	1000
54	125	1000
70	140	1000
89	160	1000



TwinPipe, component No. 2590

Copper pipe ø out. mm	Outer casing ø mm	L mm
22-22	125	1000
28-28	140	1000
35-35	140	1000
42-42	160	1000
54-54	200	1000



Distance between copper pipes = 10 mm

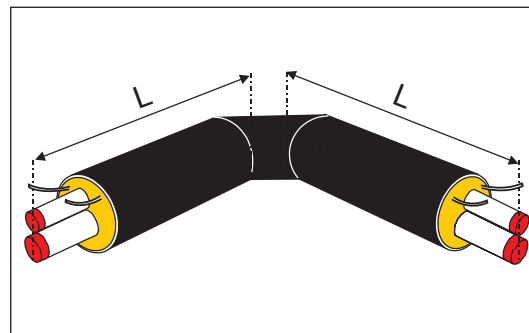
The copper pipe system

Horizontal preinsulated bends, 90°

Component
overview/
measurements,
continued

Double pipe, component No. 2590

Copper pipe, \varnothing out. mm		Outer casing	L
d2	d1	\varnothing mm	mm
28	22	110	1000
35	22	110	1000
42	22	125	1000
54	28	140	1000
70	28	160	1000



Distance between copper pipes = 6 mm

The copper pipe system
Vertical bends, 90°

Application

Preinsulated vertical 90° bends are used for vertical directional changes e.g. in connection with terrain offsets or introduction in buildings.

As a standard they are available in 90°. If other degree measures are required, it must be ascertained that no harmful bending impacts arise.

90° bends are applicable for all relevant installation methods.

Description

The bends are available for operating pressure: 25 bar.

The copper pipes are bent mechanically.

All bends are delivered with embedded copper wires for surveillance.

Materials

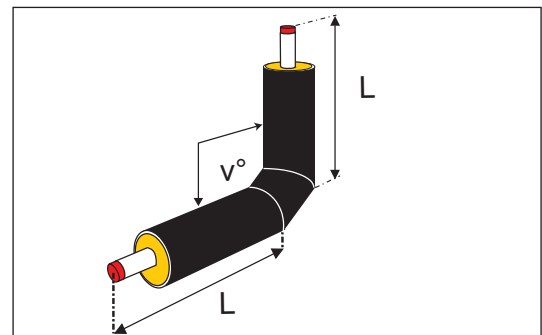
Copper pipes: Hard copper. EN 12449, Cu-DHP No. CW 024A.

Other materials as for straight pipes.

Component overview/ measurements

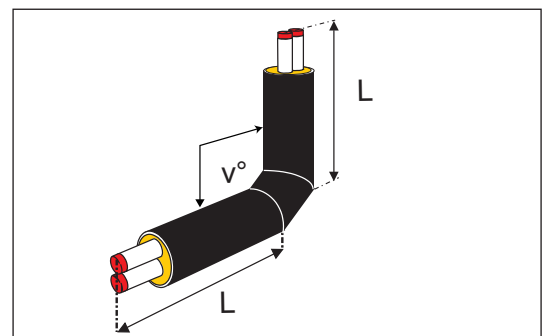
Single pipe, component No. 2500

Copper pipe ø out. mm	Outer casing ø mm	L mm
22	90	1500
28	90	1500
35	90	1500
42	110	1500
54	125	1500
70	140	1500
88	160	1500



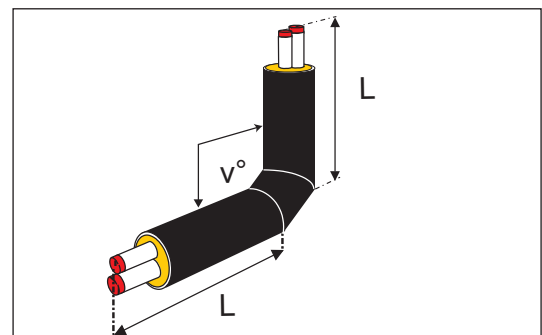
TwinPipe, component No. 2591

Copper pipe ø out. mm	Outer casing ø mm	L mm
18-18	110	1500
22-22	125	1500
28-28	140	1500
35-35	140	1500
42-42	160	1500
54-54	200	1500



Double pipe, component No. 2591

Copper pipe, ø out. mm		Outer casing ø mm	L mm
d ₂	d ₁		
28	22	110	1500
35	22	110	1500
42	22	125	1500
54	28	140	1500



The copper pipe system
House entry pipes, 90°

Application Preinsulated 90° house entry pipes are used for introduction in buildings without cellar.
They are applicable for all relevant installation methods.

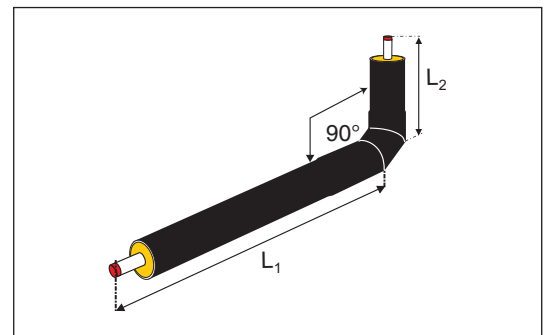
Description The bends are available for operating pressure: 25 bar.
The copper pipes are bent mechanically.
All bends are delivered with embedded copper wires for surveillance.
In TwinPipe and double pipe house entries the vertical pipes have been turned, so they are parallel with the wall.
Matching pipe ends are marked with a colour code.
The shown pipe route is the standard.

Materials Copper pipes: Hard copper. EN 12449, Cu-DHP No. CW 024A.
Other materials as for straight pipes.

Component overview/ measurements

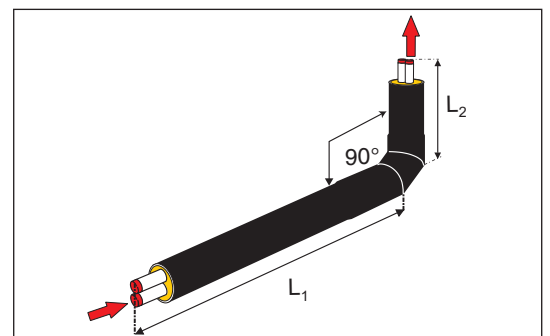
Single pipe, component No. 2500

Copper pipe ø out. mm	Outer casing ø mm	L ₁ xL ₂ mm
22	90	2500x1500
28	90	2500x1500
35	90	2500x1500
42	110	2500x1500
54	125	2500x1500
70	140	2500x1500
89	160	2500x1500



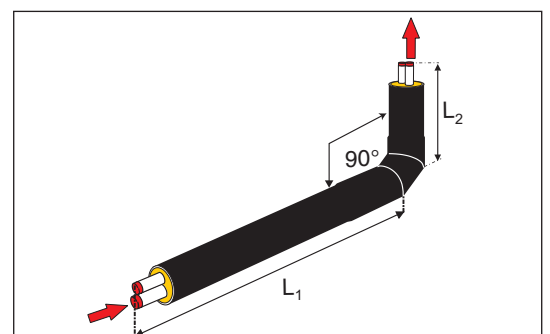
TwinPipe, component No. 2592

Copper pipe ø out. mm	Outer casing ø mm	L ₁ xL ₂ mm
18-18	110	2500x1500
22-22	125	2500x1500
28-28	140	2500x1500
35-35	140	2500x1500
42-42	160	2500x1500
54-54	200	2500x1500



Double pipe, component No. 2592

Copper pipe, ø out. mm		Outer casing ø mm	L ₁ xL ₂ mm
d ₂	d ₁		
28	22	110	2500x1500
35	22	110	2500x1500
42	22	125	2500x1500
54	28	140	2500x1500



The copper pipe system

Overview, branches

Branch types

For the copper pipe system LOGSTOR can deliver a number of different branch types and combinations dependent on dimension, kind of project, and the customer's actual wishes:

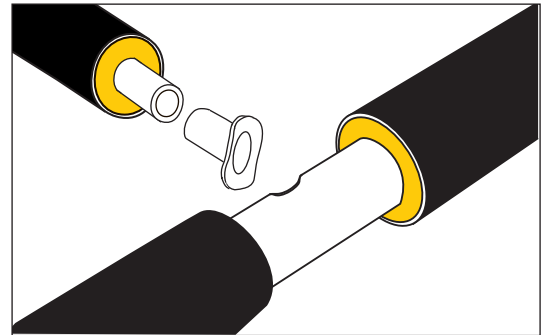
- From single pipe to single pipe, TwinPipe to TwinPipe, double pipe to double pipe:
 - BandJoint, straight branch
 - TXJoint, straight branch
 - SXTJoint, straight branch
- From TwinPipe to two single pipes (primarily FlexPipes)
 - BandJoint, straight branch with two branches
 - Straight branch with T-shrink joints
- Preinsulated branches

Connection of branch pipe

Connection with saddle pipe piece:

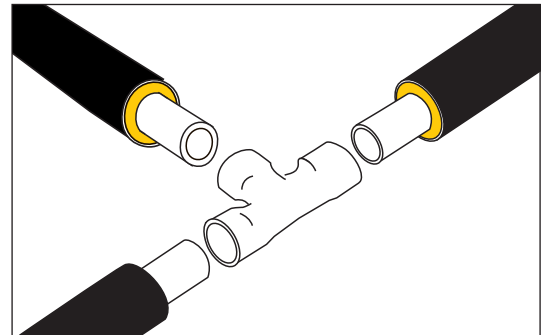
- Dimension Cu-pipe, main pipe:
28 - 88 mm
- Dimension Cu-pipe, branch:
22 - 70 mm

Note! Branches must always be at least one dimension smaller than the main pipe.



Connection with soldering-T:

- Dimension Cu-pipe, main pipe:
22 - 42 mm
- Dimension Cu-pipe, branch:
22 - 42 mm



The copper pipe system

Overview, branch joints

BandJoint branch, straight

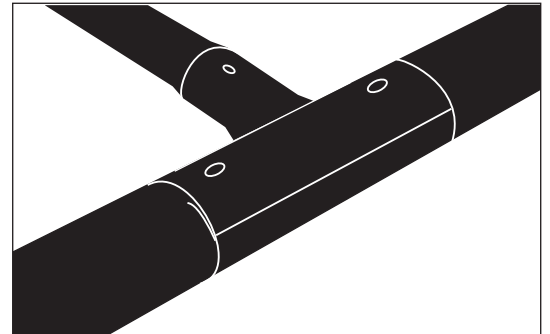
Straight BandJoint branch.

Main pipe (outer casing):
ø 90 - 200 mm

Branch (outer casing):
ø 90 - 160 mm

Component No. 5640.

Description see 6.6.1.1.



TXJoint, straight branch

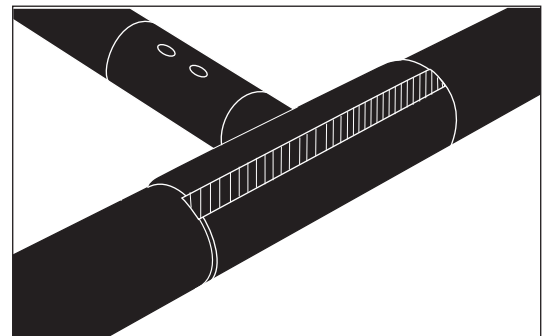
Straight shrink branch (Twin - Twin).

Main pipe (outer casing):
ø 125 - 200 mm

Branch (outer casing):
ø 90 - 140 mm

Component No. 5191.

Description see 6.6.2.1.



SXTJoint, straight joint

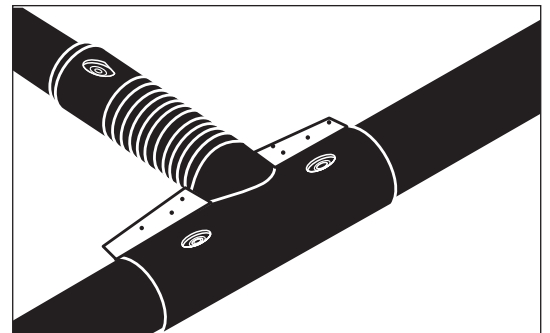
Straight shrink joint (Twin - Twin).

Main pipe (outer casing):
ø 90 - 200 mm

Branch (outer casing):
ø 90 - 160 mm

Component No. 5207.

Description see 6.6.3.1.



BandJoint Straight branch joint with two branches

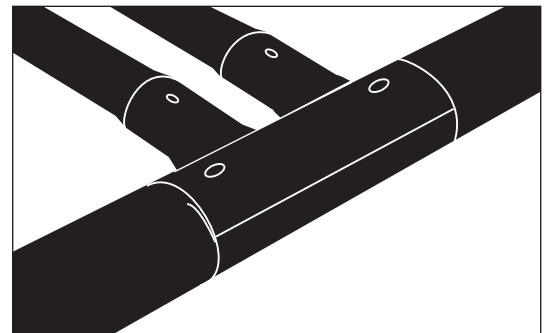
Straight branch with BandJoint branch
(Twin - single pipe):

Main pipe (outer casing):
ø 125 - 200 mm

Branch (outer casing):
ø 77 - 110 mm

Component No. 5640.

Description see 6.6.4.1.



The copper pipe system

Overview, branch joints

Straight branch T-joint, double

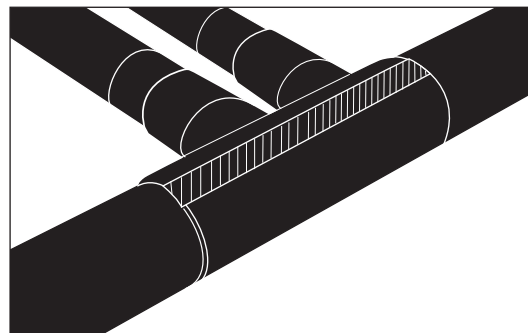
Straight T-joint branch
(Twin - single pipe):

Main pipe (outer casing):
ø 140 - 200 mm

Branch (outer casing):
ø 77-110 mm

Component No. 5190.

Description see 6.6.5.1.



The copper pipe system

Overview, preinsulated branches

Application Preinsulated branches are an alternative to branch joints.

There are two types of branches:

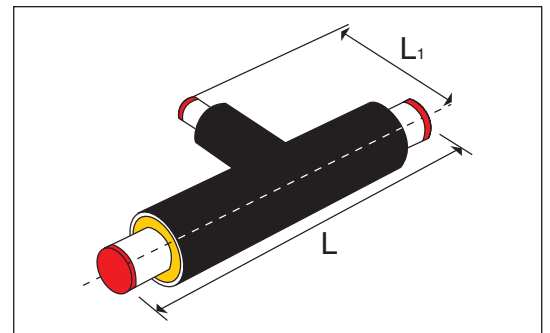
- Straight, horizontal branches in single, Twin and double version
- 45° perpendicular branches in single, Twin and double version

Description The branches are available for operating pressure 25 bar. They are applicable for all relevant installation methods. All branches are delivered with embedded copper wires for surveillance. (See illustrations below for the individual types).

Materials Copper pipes: Hard copper. EN 12449, Cu-DHP No. CW 024A.

Other materials as for straight pipes.

**Component overview/
Straight branches** Straight branch for single pipes.
Component No. 3400.



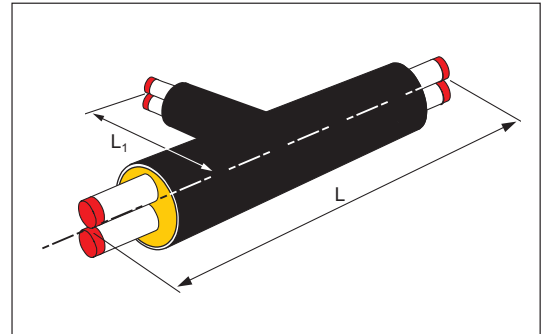
Main pipe ø d, mm			Branch pipe ø d, series 1						
			22	28	35	42	54	70	88
ø d, mm	Series 1	L, mm	Length L1, mm = 700 mm						
22	90	1150	X	-	-	-	-	-	-
28	90	1150	X	X	-	-	-	-	-
35	90	1150	X	X	X	-	-	-	-
42	110	1150	X	X	X	X	-	-	-
54	125	1150	X	X	X	X	X	-	-
70	140	1150	X	X	X	X	X	X	-
88	160	1150	X	X	X	X	X	X	X

The copper pipe system Overview, preinsulated branches

Component overview/
Straight branches
continued

Straight branch for TwinPipes.

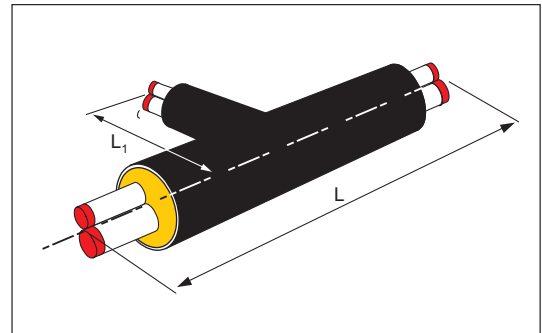
Component No. 3490.



Main pipe ø d, mm			Branch pipe ø d, series 1				
			22-22	28-28	35-35	42-42	54-54
ø d, mm	Series 1	L, mm	Length L1, mm = 700 mm				
22-22	125	1150	X	-	-	-	-
28-28	140	1150	X	X	-	-	-
35-35	140	1150	X	X	X	-	-
42-42	160	1150	X	X	X	-	-
54-54	200	1150	X	X	X	X	X

Straight branch for double pipe.

Component No. 3490.

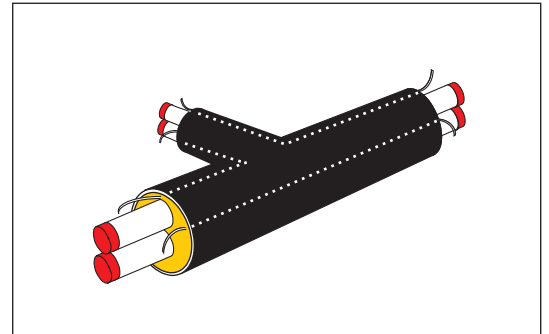


Main pipe ø d, mm			Branch pipe ø d, series 1					
			22-15	28-22	35-22	42-22	54-28	70-28
ø d, mm	Series 1	L, mm	Length L1, mm = 700 mm					
22-15	90	1150	X	-	-	-	-	-
28-22	90	1150	X	X	-	-	-	-
35-22	90	1150	X	X	X	-	-	-
42-22	110	1150	X	X	X	X	-	-
54-28	125	1150	X	X	X	X	X	-
70-28	140	1150	X	X	X	X	X	X

The copper pipe system Overview, preinsulated branches

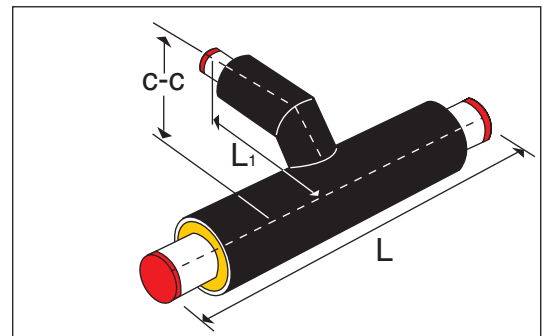
**Alarm wires.
Straight branches**

The alarm wires are placed in single, Twin and double pipes as shown in the illustration.



**Component
overview./
45° branches**

45° branch for single pipes.
Component No. 3000.



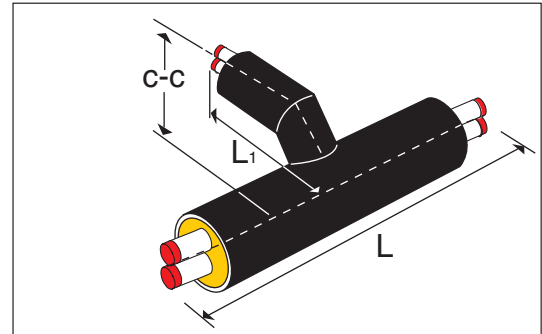
Main pipe ø d, mm			Branch pipe ø d, series 1						
			22	28	35	42	54	70	88
ø d, mm	Series 1	L, mm	Length L1, mm = 1000 mm C-C, mm						
22	90	1150	155	155	155	165	175	180	190
28	90	1150	155	155	155	165	175	180	190
35	90	1150	165	165	165	175	185	190	200
42	110	1150	175	175	175	185	190	200	200
54	125	1150	180	180	180	190	200	205	215
70	140	1150	190	190	190	200	210	215	225
88	160	1150	190	190	190	200	210	215	225

The copper pipe system Overview, preinsulated branches

Component overview./
45° branches,
continued

45° branch for TwinPipes.

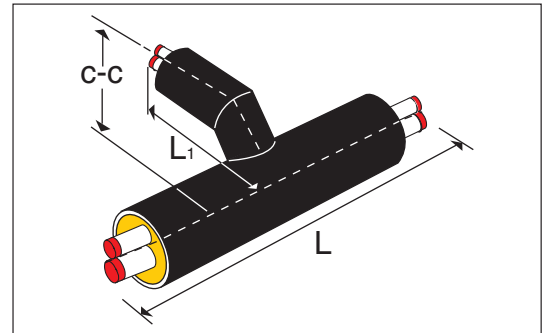
Component No. 3090.



Main pipe ø d, mm			Branch pipe ø d, series 1				
			22-22	28-28	35-35	42-42	54-54
ø d, mm	Series 1	L, mm	Length L1, mm = 1000 mm C-C, mm				
22-22	125	1150	190	-	-	-	-
28-28	140	1150	200	205	-	-	-
35-35	140	1150	200	205	205	-	-
42-42	160	1150	210	215	215	225	-
54-54	200	1150	225	235	235	245	265

45° branch for double pipes.

Component No. 3090.

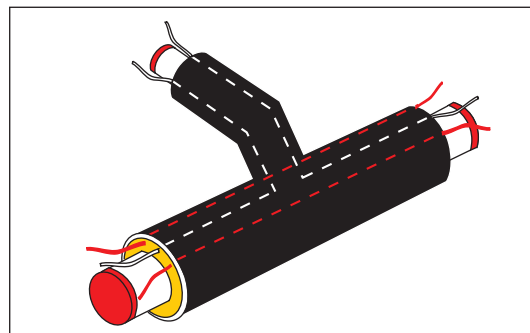


Main pipe ø d, mm			Branch pipe ø d, series 1					
			22-15	28-22	35-22	42-22	54-28	70-28
ø d, mm	Series 1	L, mm	Length L1, mm = 1000 mm, C-C, mm					
22-15	90	1150	155	-	-	-	-	-
28-22	90	1150	155	155	-	-	-	-
35-22	90	1150	155	155	155	-	-	-
42-22	110	1150	165	165	165	175	-	-
54-28	125	1150	175	175	175	185	190	-
70-28	140	1150	180	180	180	190	200	205

The copper pipe system Overview, preinsulated branches

Alarm wires. 45° branches

The alarm wires are placed in single, Twin and double pipes as shown in the illustration.



The copper pipe system

Transition pipe, Twin - single pipe

Application

Preinsulated transition pipe is used in connection with straight transition from a single pipe system to a TwinPipe system.

As the flow pipe is always placed at the bottom, the transition is available in a “type 1” as well as a “type 2” version dependent on the flow direction, see illustrations below.

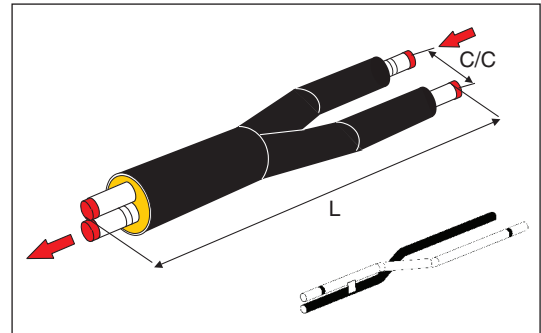
They are applicable for all relevant installation methods.

Max. operating pressure: 25 bar.

Description

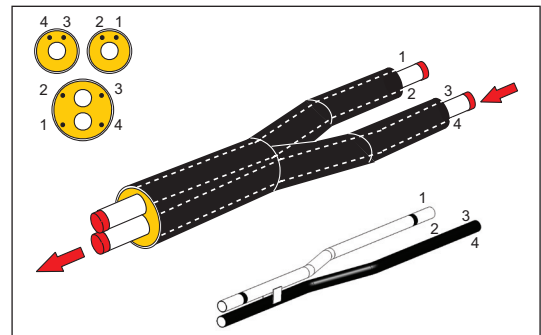
Preinsulated straight transition pipes are available for all TwinPipe dimensions.

The illustration shows the “type 2” version.



All preinsulated transitions have 4 embedded copper wires for surveillance.

From the illustration the “type 1” version and the alarm wire position appear.



Materials

Copper pipes: Hard copper EN 12449, Cu-DHP No CW 024A.

Other materials as for straight pipes.

Component No./ data

Transition, Twin - single pipe

Component No. 3071.

When ordering specify type 1 or 2.

Dimension		Type		L mm	C/C mm
Twin ø out. mm	Single ø out. mm	1	2		
22/125	22/90	x	x	1700	245
28/140	28/90	x	x	1700	245
35/140	35/90	x	x	1700	245
42/160	42/110	x	x	1800	260
54/200	54/125	x	x	1800	260

**The copper pipe system
Other components**

General

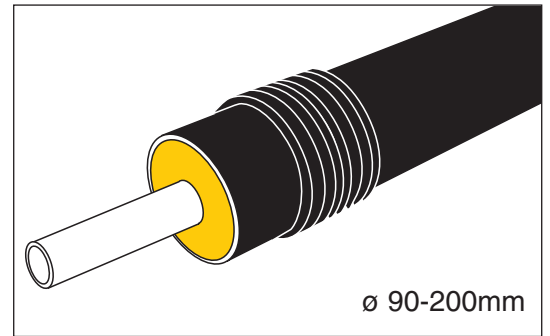
For the copper pipe system a number of other products which are described in this section are offered.

For further information about application fields, technical specifications see the various references.

Wall entry sleeves

For sealing between outer casing and the surrounding concrete in connection with termination in wall, wall entry sleeves for all copper pipe dimensions are available.
(Also see section 2.7.3)

Component No. 5800.

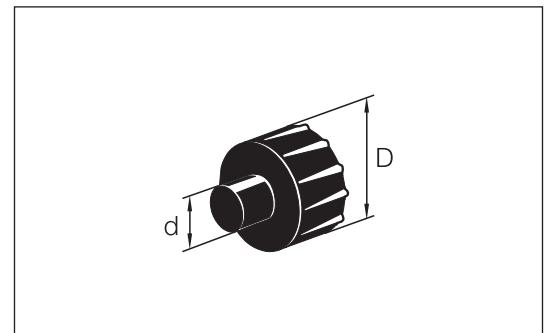


End cap

End caps are used to protect the foam ends against moisture ingress. Applicable for a max. service pipe temperature of 100°C.
(Also see section 2.7.4).

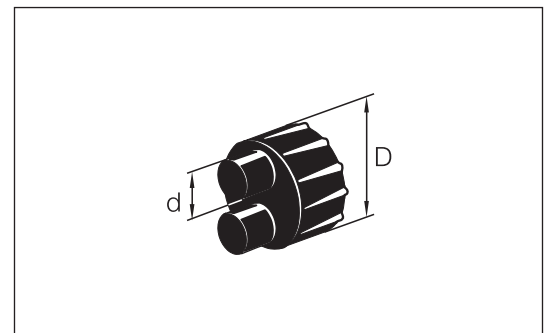
Shrinkable end cap for single pipe.
Component No. 5600

Service pipe ø out. mm	Outer casing ø out. mm	DHEC No.
22-28-35	90	2100
42	110	2200
54	125	2300
70	140	2400
88	160	2500



Shrinkable end cap for TwinPipe.
Component No. 5600

Service pipe ø out. mm	Outer casing ø out. mm	DHEC No.
22-22	125	3350-P604
28-28	140	3280
35-35	145	3280
42-42	160	3350-02
54-54	200	3350-02

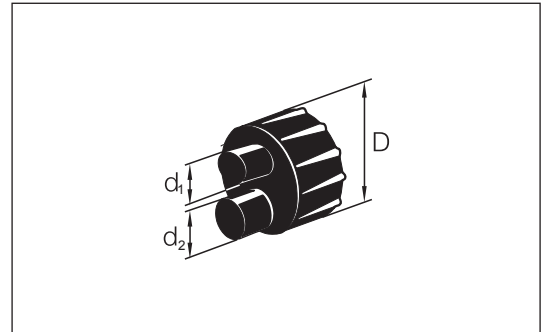


**The copper pipe system
Other components**

**End cap,
continued**

Shrinkable end cap for double pipe.
Component No. 5600

Service pipe ø out. mm	Outer casing ø out. mm	DHEC No.
22-28	110	3250-P604
22-35	110	-
22-42	125	3280
28-54	140	3280
28-70	160	-



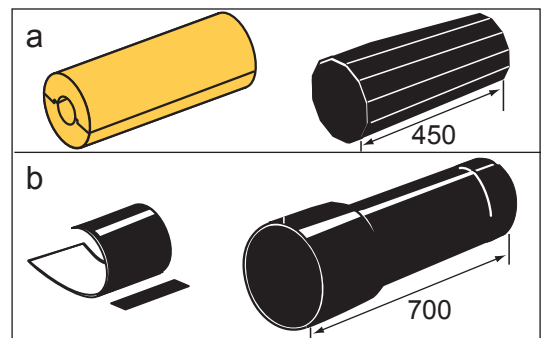
End fitting

To terminate a pipe system a PE end fitting is used.
Component No. 5700.

Type a: For single pipes

Type b: For TwinPipes and double pipes.
To be foamed

Also see specifications in section 2.7.5. End fitting for single pipes.



Irrespective of the service pipe dimension the end fitting is ordered according to the outer casing dimension. This means, that sometimes there will be a little gap between the service pipe and the insulation shell. This is of no practical importance.

700 mm end fittings are always used in connection with temporary, disposable valves.

(x) = not standard delivery.

End fittings for TwinPipes and double pipes.

Component No. 5700.

See foam pack table section 15.

Casing ø out. mm	Insul. shells ø int/out. mm	Service pipe range ø out. mm	Lengths, mm	
			450	700
90	33/90	22-35	x	(x)
110	48/110	42	x	(x)
125	60/125	54	x	(x)
140	75/140	70	x	(x)
160	88/160	88	x	(x)

Casing ø out. mm	L = 700 mm
110	x
125	x
140	x
160	x
200	x