

EUROTIS

PRODUCTS CATALOGUE





EUROsolar

PLT-CSST tubes for thermal solar installations

AISI 304 stainless steel PLT-CSST tubes with low thermal insulation 8 mm

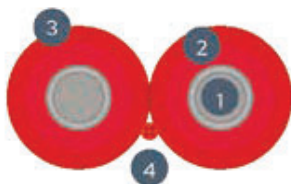
SolarPRESS new line is composed by PLT-CSST tube in AISI 304, thickness 0,3 mm with red color low thickness thermal insulation in expanded polyurethane and covered with red roof color mechanical ware and UV protective film. SolarPRESS tubes are available in:

- **mono version without electric cable**
- **mono version with electric cable**
- **coupled version with electric cable**, that can be separated easily and can be handily bended to make easier the laying of the line both inside and outside the buildings. The electric cable is included in one of the tubes for an immediate identification of delivery and return of the plant.

Only 8 mm of insulation thickness

Thanks to the lower thermal conductivity ($\lambda = 0,030 \text{ W/m K}$) of the flexible expanded polyurethane used as insulating material in the SolarPRESS tubes by Eurotis, it is possible to reduce the thickness of the insulation to 8 mm compared to the value of 13 mm of the traditional insulating materials such as expanded EPDM or NBR while retaining the same thermal resistance (that is the ability to limit the heat losses that reduce the energetic efficiency of the system). Thus it is possible to reduce size encumbrances, facilitating transport, handling and installation even for high lengths of the coils.

Main features of SolarPRESS tube



1. PLT-CSST tube in AISI 304, thickness 0,3 mm (pressure resistance, durability and easy installation);
2. Red low thickness 8 mm flexible polyurethane foam with high insulating capacity;
3. Red roof color mechanical ware and UV protective film;
4. Multipolar electric cable (depending on model).

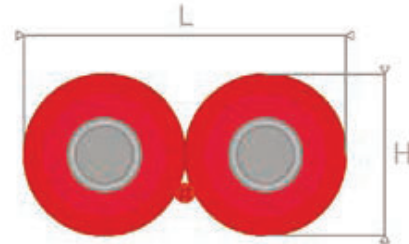
EUROTIS 2300

Solar Mono Pre-insulated tube AISI 304



Max Pressure: 15 bar
Max Temperature: 150 °C

DN	INSULATION THICKNESS	€	
15	8mm		25 m
			50 m
20			50 m



DN Nominal diameter	H Height	L Width
15	38mm	76mm
20	43mm	86mm
25	51mm	102mm

Bending modalities of the PLT-CSST tubes

For extreme bending radii beyond 90° contact our technical department.

EUROTIS 2301

Solar Mono Pre-insulated tube AISI 304 with cable



Max Pressure: 15 bar
Max Temperature: 150 °C

DN	INSULATION THICKNESS	€	
15	8mm		50 m
20			50 m

EUROTIS 2302

Solar Coupled Pre-insulated tube AISI 304 with cable



Max Pressure: 15 bar
Max Temperature: 150 °C

DN	INSULATION THICKNESS	€/m	
15	8mm		25 m
			50 m
20			25 m
			50 m
25			25 m
			50 m



MAXIMUM WORKING TEMPERATURE	MIN. WORKING TEMPERATURE	THERMAL CONDUCTIVITY
150°C (continuous operating temperatures) 175°C (short peak temperature)	-50°C	0,030W/mK

* Value referred to the type of insulation material. Use proper sealing elements depending on the working temperature of the fluid.



EUROwater

PLT-CSST tubes for heating & water systems

AISI 316L stainless steel PLT-CSST tubes

Corrugated pliable PLT-CSST tubes, in AISI 316L stainless steel, suitable for drinking water (*), 0,3 mm thick, up to DN25 and 0,35mm thick in DN32 (designation: 1.4404 - X2CrNiMo17-12-2: austenitic stainless steel complying with EN 10028-7).

AISI 304 stainless steel EUROWATER PLT-CSST tubes with thermal insulation for heating and cooling systems. Suitable for domestic water transport .

Corrugated pliable PLT-CSST tubes in AISI 304 stainless steel for drinking water (*) with expanded polyethylene EPE CFC-free thermal insulating coating and intended for heating and cooling systems. This insulation permits high resistance to water vapour diffusion with the consequent maintenance of the thermal insulation characteristics.

**For other fluids contact our technical department. Use proper sealing elements depending on the working temperature and the fluid.*



EUROTIS 2303

Mono Tube AISI 316 for Water Systems, Heating & Cooling



Max Pressure: 15 bar
Max Temperature: 550 °C

DN	TUBE THICKNESS	€	
12	0,3 mm		5 / 25 / 50 m
15			
20			
25	0,35mm		30 m
32			

EUROTIS 2304

Mono Pre- insulated Tube AISI 304 for Water Systems, Heating & Cooling



Max Pressure: 15 bar
Max Temperature: 95 °C

DN	TUBE THICKNESS	€	
15	6 mm		50 m
20			

Main features of PLT-CSST tube with thermal insulation (code 2304) for heating and cooling systems

Maximum working temperature *	Min. working temperature *	Thermal Conductivity	Reaction to fire class
95°C (continuous)	-40°C	0,039 W/mK (at 40°C)	UNI 9177: cl. 1 DIN 4102: cl. B2

* Value referred to the type of insulation material. Use proper sealing elements depending on the working temperature of the fluid.

Bending modalities of the PLT-CSST tubes

For extreme bending radii beyond 90° contact our technical department.

Dimensions of the AISI 304 and AISI 316L austenitic stainless steel PLT-CSST tubes



Di: Internal diameter
De: External diameter
S: Thickness
P: Pitch

DN	Tube	Thread connection	Di	De	S	P	Inner lineic surface	Outer lineic surface	Lineic volume
12	AISI 316	1/2"	12,0 mm	15,8 mm	0,3 mm	5,0 mm	0,0540 m ² /m	0,0568 m ² /m	0,150 l/m
15	AISI 304 & AISI 316	3/4"	15,8 mm	20,0 mm	0,3 mm	5,5 mm	0,0702 m ² /m	0,0730 m ² /m	0,248 l/m
20	AISI 316	1"	19,7 mm	25,0 mm	0,3 mm	6,4 mm	0,0912 m ² /m	0,0942 m ² /m	0,383 l/m
25	AISI 316	1 1/4"	26,5 mm	33,0 mm	0,3 mm	7,1 mm	0,1313 m ² /m	0,1345 m ² /m	0,700 l/m
32	AISI 316	1 1/2"	33,0 mm	41,0 mm	0,35 mm	7,6 mm	0,1757 m ² /m	0,1799 m ² /m	1,046 l/m



EUROklima

PLT-CSST Tubes for heating pumps and for hydronic connections

AISI 304 stainless steel PLT-CSST tubes with thermal insulation 13 mm.

PLT-CSST EUROKLIMA corrugated tubes made of AISI 304 stainless steel with 13mm of thermal insulation. Studied and designed to meet the specific requirements of heat pump systems, and for any type of hydronic connection for heating or cooling. EUROKLIMA tubes offer an advanced solution that guarantees energy efficiency and optimal performance.

Main features of EUROKLIMA tubes



1. PLT-CSST tube in AISI 304, thickness 0,3 mm (pressure resistance, durability and easy installation)
2. 13 mm thermal insulation made of extruded and expanded elastomer according to EN 14304 free of CFCs, HCFCs and PVC, specially developed for hydronic connections to heat pumps
3. Scratch and UV-resistant PE outer protective coating with water vapour resistance factor $\geq 15,000$ according to EN ISO 12086.



EUROTIS 2305

KLIMA Mono Pre-insulated tube AISI 304



Max Pressure: 15 bar
Max Temperature: 150 °C

DN	INSULATION THICKNESS	€	Icon
20	13 mm		50m
25			25/50m
32			30mm

EUROTIS 2306

Protection Heat - Shrink Sheat for KLIMA tubes



DN	SHEAT LENGTH	€	Icon
20	100mm		2
25	120mm		2
32	140mm		2

Main features of PLT-CSST tubes with thermal insulation, for Heating and Cooling systems

Maximum working temperature *	Min. working temperature *	Thermal Conductivity	Reaction to fire class
150°C (continuous) 175°C (short peak temperature)	-50°C	0,042 W/mK (at 40°C) (EN ISO 8497)	EN 13501-1:E / DIN 4102:B2

* Value referred to the type of insulation material.

Use proper sealing elements depending on the working temperature of the fluid.

Bending modalities of the PLT-CSST tubes

For extreme bending radii beyond 90° contact our technical department.



Dimensions of the AISI 304 austenitic stainless steel PLT-CSST tubes

DN Nominal diameter	L Width
20	51mm
25	59mm
32	67mm



Di: Internal diameter
De: External diameter
S: Thickness
P: Pitch

DN	Thread Connection	Di	De	S	P	Inner lineic surface	Outer lineic surface	Lineic volume
20	1"	19,7 mm	25,0 mm	0,3 mm	6,4 mm	0,0912 m ² /m	0,0942 m ² /m	0,383 l/m
25	1 1/4"	26,5 mm	33,0 mm	0,3 mm	7,1 mm	0,1313 m ² /m	0,1345 m ² /m	0,700 l/m
32	1 1/2"	33,0 mm	41,0 mm	0,35 mm	7,6 mm	0,1757 m ² /m	0,1799 m ² /m	1,046 l/m



In full compliance with the regulations in force, EUROTIS srl presents the first patented press-fitting system for corrugated tubes PLT-CSST. The ePRESS Technology summarizes the best traditions of reliability, flexibility and safety of the Eurotis PLT-CSST corrugated tubes with the practicality and speed of installation of the pressing system.

Quick and easy installation

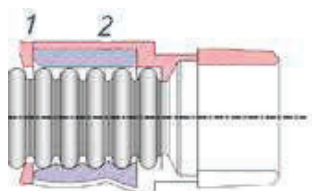
It is possible to manually process and bend the PLT-CSST tube without using specific tools. This is possible thanks to the specific morphology of the corrugations and to a minimum thickness of 0.3 mm which give the pipe the maximum performance during bending.

Seal quality

The seal of the joint (pipe/fitting) is guaranteed by two pressing points. All ePRESS fittings are made of brass, with a EPDM PEROX gasket suitable for transporting drinking water and resistant up to 150 °C continuous operating temperatures.

The 1st point deforms the entrance of the fitting where there is a “tooth” which, after pressing, locks the tube and inserts itself in the last corrugation preventing it from slipping off.

The 2nd pressing point deforms the gasket, allowing it to penetrate into the corrugations of the PLT-CSST tube and ensuring a secure and lasting seal.





EUROTIS 2341

E-Press Male Fitting



CONNECTION		FOR TUBE	€	
DN12	1/2"	AISI 316		20
DN15	1/2"	AISI 304 & 316		10
DN15	3/4"	AISI 304 & 316		10
DN20	3/4"	AISI 304 & 316		5
DN20	1"	AISI 304 & 316		5
DN25	1"	AISI 304 & 316		5
DN25	1 1/4"	AISI 304 & 316		5
DN32	1"	AISI 304 & 316		5
DN32	1 1/4"	AISI 304 & 316		5

EUROTIS 2343

E-Press Coupling



CONNECTION		FOR TUBE	€	
DN12	DN12	AISI 316		20
DN15	DN15	AISI 304 & 316		10
DN20	DN20	AISI 304 & 316		5
DN25	DN25	AISI 304 & 316		5
DN32	DN32	AISI 304 & 316		2

EUROTIS 2342

E-Press Female Fitting



CONNECTION		FOR TUBE	€	
DN12	1/2"	AISI 316		20
DN15	1/2"	AISI 304 & 316		10
DN15	3/4"	AISI 304 & 316		10
DN20	1/2"	AISI 304 & 316		5
DN20	3/4"	AISI 304 & 316		5
DN20	1"	AISI 304 & 316		5
DN25	1/2"	AISI 304 & 316		5
DN25	3/4"	AISI 304 & 316		5
DN25	1"	AISI 304 & 316		5
DN25	1 1/4"	AISI 304 & 316		5
DN32	1"	AISI 304 & 316		2
DN32	1 1/4"	AISI 304 & 316		2

EUROTIS 2346

E-Press Reducing Coupling



CONNECTION		FOR TUBE	€	
DN15	DN12	AISI 304 / AISI 316		10
DN20	DN15	AISI 304 & 316		5
DN25	DN15	AISI 304 & 316		5
DN25	DN20	AISI 304 & 316		5
DN32	DN25	AISI 304 & 316		2

EUROTIS 2321

E-Press Tee - Fitting

CONNECTION			FOR TUBE	€	
DN12	DN12	DN12	AISI 316		10
DN15	DN15	DN15	AISI 304 & 316		5
DN20	DN20	DN20	AISI 304 & 316		5
DN25	DN25	DN25	AISI 304 & 316		4
DN32	DN32	DN32	AISI 304 & 316		1

EUROTIS 2344

E-Press Swivel Nut



CONNECTION		FOR TUBE	€	
DN12	1/2"	AISI 316		20
DN12	3/4"	AISI 316		20
DN15	3/4"	AISI 304 & 316		10
DN15	1"	AISI 304 & 316		5
DN20	1"	AISI 304 & 316		5
DN25	1"	AISI 304 & 316		5
DN25	1 1/4"	AISI 304 & 316		5
DN32	1 1/4"	AISI 304 & 316		2
DN32	1 1/2"	AISI 304 & 316		2

EUROTIS 2347

E-Press Tee Reducing Fitting



CONNECTION			FOR TUBE	€	
DN15	DN12	DN15	AISI 304 / AISI 316 / AISI 304		5
DN20	DN12	DN20	AISI 304 / AISI 316 / AISI 304		5
DN20	DN15	DN15	AISI 304 & 316		5
DN20	DN15	DN20	AISI 304 & 316		5
DN20	DN20	DN15	AISI 304 & 316		5
DN25	DN15	DN25	AISI 304 & 316		4
DN25	DN20	DN25	AISI 304 & 316		4
DN32	DN25	DN32	AISI 304 & 316		1

EUROTIS 2332

E-Press Female Elbow



CONNECTION		FOR TUBE	€	
DN12	1/2"	AISI 316		10

EUROTIS 2333

E-Press Female Elbow with Fixing bracket



CONNECTION		FOR TUBE	€	
DN12	1/2"	AISI 316		10
DN15	1/2"	AISI 304 & 316		5



Double o-ring system

From DN 12 to DN 32

The double O-rig system has been studied to guarantee a processing without dedicated equipment in a simple and intuitive way.

The special corrugation of the PLT-CSST tubes allows the insertion of two o-rings inside the first two grooves of the hose (hydraulic seal) and in the third groove a metal ring (mechanical seal).

The hydraulic seal is guaranteed especially for solar applications with water and is powered with an o-ring in EPDM and a second o-ring in FKM. The FKM gasket is renowned for its resistance to high temperatures, while the EPDM gasket for high performance in the hydraulic seal.

The double o-ring system has been designed and built for tubes ranging from DN 12 to DN 32.



EUROTIS 2361

Double O-ring Male



CONNECTION		FOR TUBE	€	
DN12	1/2"	AISI 316		1
DN15	3/4"	AISI 304 & 316		1
DN20	1"	AISI 304 & 316		1
DN25	1 1/4"	AISI 304 & 316		1
DN32	1 1/2"	AISI 304 & 316		1

EUROTIS 2362

Double O-ring Female



CONNECTION		FOR TUBE	€	
DN12	1/2"	AISI 316		1
DN15	3/4"	AISI 304 & 316		1
DN20	1"	AISI 304 & 316		1
DN25	1 1/4"	AISI 304 & 316		1
DN32	1 1/2"	AISI 304 & 316		1

EUROTIS 2365

Double O-ring Male Reducing



CONNECTION		FOR TUBE	€	
DN15	1"	AISI 304 & 316		1

EUROTIS 2366

Double O-ring Female Reducing



CONNECTION		FOR TUBE	€	
DN15	1"	AISI 304 & 316		1

EUROTIS 2363

Double O-ring Coupling



CONNECTION		FOR TUBE	€	
DN12	DN12	AISI 316		1
DN15	DN15	AISI 304 & 316		1
DN20	DN20	AISI 304 & 316		1
DN25	DN25	AISI 304 & 316		1
DN32	DN32	AISI 304 & 316		1

EUROTIS 2367

Double O-ring Coupling with Copper Tubes



CONNECTION		FOR TUBE	€	
DN15	Ø18	AISI 304 & 316		1
DN15	Ø22	AISI 304 & 316		1
DN20	Ø22	AISI 304 & 316		1

UAP3L

Battery & Power Supply



UAP3L • Tool Case Set



CODE	TOOL CASE SET	€
UAP3L	Crimping Tool / Battery / Charger	

UNP2

Power Supply



EUROTIS

E-PRESS 2390

Jaw for Crimping Tools
UAP3L & UNP2



CODE	DIMENSION	FOR PIPE	€
2390	DN12	AISI 316	
	DN15	AISI 304 & 316	
	DN20	AISI 304 & 316	
	DN25	AISI 304 & 316	
	DN32	AISI 304 & 316	

UNP2 • Tool Case Set



CODE	TOOL CASE SET	€
UNP2	Crimping Tool	