

CALPEX Low Temperature System

Flexibly and efficient towards a safe future



CALPEX low temperature system

For local and district heating systems

CALPEX – the flexible plastic low-temperature system for reliable supply of service water and heat: flexible, energy-efficient, reliable, fast and competent.

CALPEX's new, high-quality, distinctively corrugated outer casing facilitates installation-friendly laying and lastingly protects the high-performance polyurethane composite system. CALPEX reliably and quickly provides access to heating networks and is an energy-efficient system to last for decades: an investment in a secure future.



CALPEX 75+75/202

Up to 80 metres per coil, with a flow rate of up to 70,000 kg/h (1600 kW with ΔT 20°C)

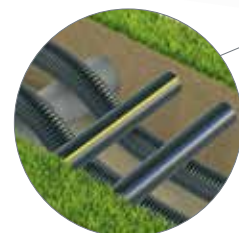


Leak-tight connections for a warm reception

Screw fittings, press fittings and weldable fittings for reliable connections underground and inside buildings.

New! 2. Generation CPX-Clip-Shells

Proven and additionally optimized CALPEX clip shells provide perfect protection for junctions and connections underground. The optimised sealing rings permit an entry angle of CALPEX pipes up to 20°, so you get more flexibility during laying.



CALPEX lets nothing
Any existing gas, water
with sections up to 10

The flexible way to a secure future

The five strengths combined in the CALPEX Low Temperature System



Flexible

Realise small bending radii with low force exertion



Energy-efficient

Reduce energy losses and cut costs



Reliable

Reliability reflected in quality and durability



Fast

Speeding up building and installation work will save time and money



Professional

We listen, innovate and keep our promises



New: Flexibility up by 24% – bending radii down by 30%

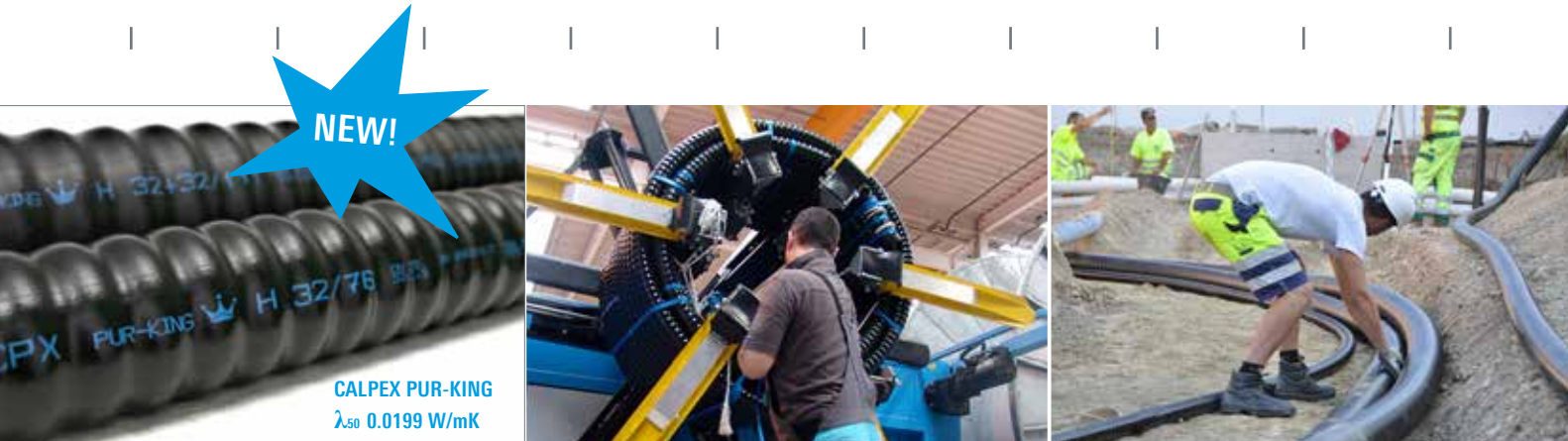
Small bending radii make laying easy

With low force exertion and high flexibility, the pipe can be guided through the trench, even where curves are tight. Costs are reduced and the reliability of the system in operation is increased.

get in its way
er, electric or sewage lines can easily be avoided,
000 metres long.

Flexible and energy-efficient

So that you can realise tight bending radii without problems, while costly energy losses are kept to a minimum



Flexible laying, thanks to small bending radii and low force exertion.

High-quality insulating foam combined with the best long-term lambda values in a composite system.

Excellent energy properties

The revolutionary CALPEX PUR-KING insulating foam achieves the world's lowest Lambda value of 0.0199 W/mK.

The fine-pored, closed-cell PUR-KING insulating foam reduces thermal conductivity to a minimum and guarantees the highest degree of energy efficiency. Independent material testing institutions have confirmed the outstanding energy properties of CALPEX. Using CALPEX PUR-KING reduces heating costs and increases energy efficiency in a sustainable manner.



Distinctive corrugation as a trademark

CALPEX - with its corrugated contours and patented outer casing provides a very high degree of flexibility during laying and reliably protects against mechanical influences. CALPEX makes it possible to achieve small bending radii and to guide the pipe around tight curves along the route with low force exertion.

Flexible on the construction site

The improved flexibility of CALPEX allows us to manufacture coils with a reduced internal diameter - so we can supply in even longer lengths. Thus, CALPEX can cope with all route conditions without limitations and with minimal planning expenditure, bringing additional cost savings.



Reliable and fast

So that you can play it safe and meet schedules without stress



Top quality for reliable product solutions with a long service life.

Reduced laying cost due to long delivery lengths and sophisticated installation technology.

First-class accessories

The permanent press fittings for reliable connections and the new, tool-free CALPEX clip shell for simple, fast and secure insulation reduce the installation time and guarantee a long lifetime.

Lastingly secure

CALPEX, the top-quality composite system, is longitudinally watertight. If the pipe is damaged by external influences, no cavities (in which water could accumulate and flow towards the building) are formed.

Less excavation work

Thanks to the small outer diameter of the bonded pipe, the CALPEX system can be laid in narrow trenches. The smaller volume minimises the excavation work, speeds up the progress of construction work and thus leads to cost savings.



NEW!

CPX Clip Shell ø 76 – 126 mm

- Improved handling
- Entry angle up to 20°
- Installation without tools
- Leak tightness checked and verified up to 0,3 bar
- Use of universal insulating materials



Professional

Advice, experience and innovation included



Innovation, longstanding experience and individual advice according to requirements.

Strong brand

Brugg Pipesystems stands for high quality, innovative products and longstanding experience. We give you individual and goal-oriented advice. The internal quality control system and the observance of all relevant standards ensure that our supplying factories in Germany and Switzerland adhere to the strictest quality standards.

Our development team constantly analyses your future requirements. The obtained findings already get incorporated into today's product solutions, which we optimally adapt to your specific needs. With Brugg Pipesystems, you are on the safe side. One of our strengths is excellent stock availability.

Additional customer benefits

- We produce as per EN 15632-1 /-2
- Medium pipes made of proven PEXa
- Casing material made of LLD-PE for excellent mechanical protection
- Screw, press- and welding connections belong to the standard range
- No thermal compensation measures are necessary
- Cleverly bound ring coils for easy laying
- Special insulation thicknesses are available on request
- Special moulded parts available at short notice



A range of products

whatever the application - CALPEX and CALPEX PLUS

CALPEX-UNO



CALPEX-DUO



CALPEX-QUADRIGA



Operating parameters

Max. permitted operating temp: 95 °C

Max. temp. for continuous operation: 80 °C

Max. operating pressure: 6/10 bar

Product structure

PEXa medium pipes

PUR insulation

LLD-PE protective casing

Applications

Local heating networks, drinking water pipes, sewage pipes, coolant pipes, industrial technology and swimming pool technology

CALPEX-UNO Heating

Type mm	DN	Inches "	Bending radius (m)	Delivery length (m)
25/ 76	20	¾	0.45	up to 1000*
25/ 91 PLUS			0.65	up to 715*
32/ 76	25	1	0.50	up to 1000*
32/ 91 PLUS			0.70	up to 715*
40/ 91	32	1¼	0.55	up to 715*
40/111 PLUS			0.75	up to 450*
50/111	40	1½	0.60	up to 450*
50/126 PLUS			1.20	up to 291*
63/126	50	2	1.00	up to 291*
63/142 PLUS			0.85	up to 260*
75/142	65	2½	0.70	up to 260*
75/162 PLUS			0.90	up to 149
90/162	80	3	1.00	up to 149
90/182 PLUS			1.20	up to 86
110/162	100	4	1.10	up to 149
110/182			1.20	up to 86
110/202 PLUS			1.40	up to 80**
125/182	125	5	1.30	up to 86
125/202 PLUS			1.50	up to 80**
140/202	125	5	1.40	up to 80
160/250	150	6	-	12 (bars)

CALPEX-UNO Sanitary

Type mm	DN	Inches "	Bending radius (m)	Delivery length (m)
22/ 76	16	⅝	0.45	up to 1000
28/ 76	20	¾	0.50	up to 1000
32/ 76	25	1	0.50	up to 1000
40/ 91	32	1¼	0.55	up to 715
50/111	40	1½	0.60	up to 450
63/126	50	2	1.00	up to 291

CALPEX-QUADRIGA Heating/Sanitary

Type mm	DN	Inches "	Bending radius (m)	Delivery length (m)
25+25+28+22/142	20+20+20+16	¾+¾+¾+⅝	0.70	up to 180
32+32+28+22/142	25+25+20+16	1+1+¾+⅝	0.70	up to 180
32+32+32+22/142	25+25+25+16	1+1+1+⅝	0.70	up to 180
40+40+40+28/162	32+32+32+20	1¼+1¼+1¼+¾	1.10	up to 105

Other dimensions on request

CALPEX-DUO Heating

Type mm	Bending radius (m)	Delivery length (m)
25+25/ 91	0.55	up to 715*
25+25/111 PLUS	0.75	up to 450*
32+32/111	0.60	up to 450*
32+32/126 PLUS	1.20	up to 291*
40+40/126	1.00	up to 291*
40+40/142 PLUS	0.85	up to 260*
50+50/162	1.10	up to 149
50+50/182 PLUS	1.30	up to 86
63+63/182	1.20	up to 86
63+63/202 PLUS	1.40	up to 80**
75+75/202	1.40	up to 80**



* CALPEX PUR-KING with λ_{50} 0,0199 W/mK

Other dimensions are available from autumn 2018.

**Available on request

CALPEX-DUO Sanitary

Type mm	DN	Inches "	Bending radius (m)	Delivery length (m)
28+22/ 91	20+16	¾+⅝	0.55	up to 715
32+22/111	25+16	1+⅝	0.60	up to 450
40+28/126	32+20	1¼+¾	1.00	up to 291
50+32/126	40+25	1½+1	1.00	up to 291

Pipe systems for the future

Heating systems – Industry – Petrol stations – System packages



Your partner for pipe systems

We are the people you should talk to when you need to find efficient solutions for transporting liquids. With our project engineers, development department, in-house production unit and our professional team of fitters, we have the know-how and the resources to look after your projects competently and reliably. For all types of heating systems, petrol station construction, industrial plant construction and system packages.

Customer-specific solutions

Brugg is the full service provider in the field of single-wall, double-wall and insulated pipe systems. This know-how allows us to manufacture project-specific customised items.

Give us a call!

Our engineers would be pleased to advise you and find a made-to-measure solution.

International network

Our global partnership network can be reached on site at any time. More than 34 partners in 20 different countries will look after you wherever you are.

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