

CALPEX® Low Temperature System

The pipe system that pays for itself



Sustainability by means of quality

CALPEX®



Testing and monitoring



Production



Coiling

CALPEX® is a high-quality plastic low temperature system for supplying service water and heat: flexible, self-compensating, lightweight and corrosion resistant. The advanced insulation technology with polyurethane foam and the sustainability of the system make CALPEX® a long-lasting solution. CALPEX® can be laid out in a quick and uncomplicated way, and remains operational for decades: an investment that more than pays for itself in the long term.

CALPEX® for heating: Lambda 0.0237 W/mK

The quality of a low temperature system lies in the heat insulation. The insulation of the CALPEX® tubes consists of fine-pored polyurethane foam that is blown using pentane. With a low volume and thin insulation, this achieves an excellent Lambda value of 0.0237 W/mK. The low heat loss saves heating costs and reduces energy consumption over the long term.

CALPEX® doesn't give longitudinal water a chance: the material compound retains its sealing effect

Longitudinal water is hardly worth thinking about with CALPEX® because a bond is created between the inner tube and the insulating foam with the CALPEX® system. Should the tube be damaged by outside influences, no cavities in which water can collect and flow in the direction of the building will appear.

CALPEX® saves time and money

The fewer connections a tube system has, the better. Each connection that can be dispensed with reduces the amount of routing, keeps costs down and increases the reliability of the system during operation. CALPEX® is supplied as an "endless product" in rings and can be unrolled like a hose when being laid. Obstacles can therefore be elegantly avoided without complicated corner connections.

The pipe system that pays for itself

CALPEX®



Central heating station: up to 95 °C
The heart of the heating system and the service water supply.



Tight house connections
Expanding seal inserts hold back water under pressure, and neoprene sealing rings keep moisture at bay.



**NEW and sophisticated:
the CALPEX® Clip T-shell**
The newly developed T-shell is the perfect protection for branches.

Simply on the top or underneath
CALPEX® lets nothing get in its way. CALPEX® tubes circumvent all existing gas, water, electrical and waste water pipes as if they weren't there.



Pipe layout

Easy to move, quick to route

The CALPEX® pipe system is light and mobile. A shallow trench is all that is needed for laying.

Fittings

NEW for reliable connections: electric welding sleeve

The new electric welding sleeve and the wide range of the brass fittings provide 100% tightness.

T-assembly

NEW and sophisticated: the CALPEX® Clip T-shell

The newly developed T-shell is the perfect protection for branches. Fitted fast and easy by using snap-on clamps and filled with insulating pentane polyurethane foam on site.



It's better to go round a bend than spend all your time welding

The flexibility of CALPEX® prevents time-consuming and expensive on-site installation work.

A range of products

whatever the application

CALPEX®-UNO



CALPEX®-DUO



CALPEX®-QUADRIGA



Operating parameters

Max. operating temperature: 95 °C

Max. operating pressure: 6/10 bar

Applications

Local heating networks, drinking water, waste water and refrigeration lines, industrial and swimming pool technology.

CALPEX®-UNO Heating

Type mm	Diameter nominal		Bending radius m	Weight kg/m	Delivery length m
	DN	Inches			
25/76	20	¾"	0.7	0.90	520/807
32/76	25	1"	0.7	1.00	520/807
40/91	32	1¼"	0.8	1.39	377/590
50/111	40	1½"	0.9	1.97	271/429
63/126	50	2"	1.0	2.60	192/305
75/142	65	2½"	1.1	3.39	143/229
90/162	80	3"	1.2	4.56	92/149
110/162	100	4"	1.2	5.10	92/149
110/182 Plus	100	4"	1.4	6.38	52/86
125/182	125	5"	1.4	6.37	52/86
160/250	150	6"	–	11.31	12 (bars)

CALPEX®-UNO Sanitary

22/76	16	⅝"	0.7	0.96	520/807
28/76	20	¾"	0.7	1.06	520/807
32/76	25	1"	0.7	1.12	520/807
40/91	32	1¼"	0.8	1.56	377/590
50/111	40	1½"	0.9	2.25	271/429
63/126	50	2"	1.0	3.06	192/305

CALPEX®-DUO Heating

25+25/91	20+20	2x¾"	0.8	1.34	377/590
32+32/111	25+25	2x1"	0.9	1.87	271/429
40+40/126	32+32	2x1¼"	1.0	2.48	192/305
50+50/162	40+40	2x1½"	1.2	3.96	92/149
63+63/182	50+50	2x2"	1.4	5.28	52/86

CALPEX®-DUO Sanitary

28+22/91	20+16	¾" + ⅝"	0.8	1.47	377/590
32+22/111	25+16	1" + ⅝"	0.9	1.95	271/429
40+28/126	32+20	1¼" + ¾"	1.0	2.60	192/305
50+32/126	40+25	1½" + 1"	1.0	2.92	192/305

CALPEX®-QUADRIGA Heating and Sanitary

25+25+28+22/142	20+20+20+16	¾" + ¾" + ¾" + ⅝"	3.25	110/169
32+32+28+22/142	25+25+20+16	1" + 1" + ¾" + ⅝"	3.39	110/169
32+32+32+22/142	25+25+25+16	1" + 1" + 1" + ⅝"	3.41	110/169
40+40+40+28/162	32+32+32+20	1¼" + 1¼" + 1¼" + ¾"	4.15	65/101

Pipe system expertise

without limits



Your partner for pipe systems

We are just the people to contact if you are looking for efficient solutions for transporting liquids. Our project engineers, our development department, our in-house manufacturing systems and our professional installation team put us in a position to accompany your project in a competent and reliable way. Be it local or district heating, filling station construction, industrial system 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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