

BRUGG

Pipes

CALPEX Low-Temperature systems

Flexibly and efficiently towards a safe future



AFRICAN PEX PIPE SYSTEMS (PTY) LTD



CALPEX PUR-KING

The energy-efficient district heating system

CALPEX PUR-KING – the flexible low-temperature system for efficient heating and the **CALPEX SANITARY** system for reliable service water supply: **FLEXIBLE, ENERGY-EFFICIENT, RELIABLE, FAST AND PROFESSIONAL**

MAGIC THRESHOLD EXCEEDED –

CALPEX PUR-KING is the energy-saving world champion when it comes to pre-insulated pipes – the insulating material has a thermal conductivity of only λ **0.0199 W/m*K**, thereby surpassing a magical threshold.

CALPEX systems reliably and quickly connect heating and service water networks and will remain energy-efficient for decades to come, making them an investment in a secure future



Leak-tight connections for a warm reception

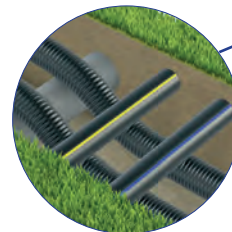
Screw fittings, press fittings and weldable fittings for reliable connections underground and inside buildings.



Proven and additionally optimised

CALPEX clip shells provide perfect protection for junctions and connections underground.

CALPEX pipes can have entry angles of up to 20°, offering you more flexibility during laying work.



CALPEX lets no

Any existing gas
with sections up

CALPEX SANITARY

The reliable service water system



Flexible

Achieve small bending radii with low levels of force



Energy-efficient

Prevent energy losses and reduce costs



Reliable

Reliability reflected in quality and durability



Fast

Speeding up building and installation work will save time and money



Professional

Expert advice and innovation you can rely on



Nothing get in its way

Water, electric or sewage lines can easily be avoided, and the pipe can be up to 1000 metres long.



Small bending radii make laying work easy

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

FLEXIBLE/ENERGY-EFFICIENT

Enabling you to achieve tight bending radii with ease and keep costly energy losses to a minimum

Flexibility during laying work thanks to small bending radii and the low levels of force required.

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/m*K.

The fine-pored, closed-cell PUR-KING high-pressure 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.

Distinctive corrugation is our trademark

With its corrugated contours and patented outer casing, CALPEX offers a very high degree of flexibility during laying and provides reliable protection against mechanical influences. CALPEX makes it possible to achieve small bending radii and to guide the pipe around tight bend along the route with low levels of force.

Flexibility on the construction site

The tight coiling radii of CALPEX allow us to manufacture coils with the smallest possible internal diameter without them becoming kinked, so we can supply in even longer lengths and reduce the number of underground connections required. As a result, CALPEX can cope with all route conditions without limitations and with minimal planning expenditure, bringing additional cost savings.



Your advantages

- Thermal conductivity **0.0199 W/m*K**
- Closed-cell structure 99%
- Long-lasting stability



Your advantages

- Small bending radii
- Bypass obstacles with ease
- No expansion elements

RELIABLE/FAST

Enabling you to play it safe and stay on schedule without the stress

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

Reduced laying work 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.



Long-lasting durability

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 required and speeds up the progress of construction work, leading to cost savings.



Your advantages

- Reliable connection technology
- Ingenious post-insulation technique
- Short delivery times



Your advantages

- No tools required
- Leak tightness tested to 0.3 bar
- Entry angle up to 20°

PROFESSIONAL

Benefit from our advice, experience and innovative spirit

Innovation, long-standing experience and individual advice according to requirements



Strong brand

BRUGG Pipesystems stands for high quality, innovative products and long-standing experience. We provide you with personalised advice to help you meet your objectives. Our internal quality control system and the fact that we comply with all relevant standards ensure that our factories in Germany and Switzerland adhere to the strictest quality standards.

Our development team is constantly working to determine your future requirements. Their findings are already being incorporated into today's product solutions, which we optimise to meet your specific needs. With BRUGG Pipesystems, you are in safe hands. One of our strengths is excellent stock availability.

In choosing CALPEX systems, our customers benefit from a comprehensive range of services. We are also there to assist our customers even once our products have been delivered.



Your advantages

- We manufacture our products in line with EN 15632-1/-2
- Certified to ISO 9001 since 1985



CALPEX PUR-KING was tested by the IMA Dresden in April 2017 and certified by the German Accreditation Body.

OUR RANGE OF PRODUCTS

CALPEX PUR-KING  / CALPEX SANITARY - the solution for every application

CALPEX PUR-KING Heating, UNO



Type mm	bending-radius (m)	Delivery length (m)
25/76	0.45	up to 1000
25/91 PLUS	0.65	up to 715
32/76	0.50	up to 1000
32/91 PLUS	0.70	up to 715
40/91	0.55	up to 715
40/111 PLUS	0.75	up to 450
50/111	0.60	up to 450
50/126 PLUS	0.80	up to 291
63/126	0.65	up to 291
63/142 PLUS	0.85	up to 260
75/142	0.70	up to 260
75/162 PLUS	0.90	up to 149
90/162	1.00	up to 149
90/182 PLUS	1.20	up to 86
110/162	1.10	up to 149
110/182	1.20	up to 86
110/202 PLUS	1.40	up to 80**
125/182	1.30	up to 86
125/202 PLUS	1.50	up to 80**
140/202	1.40	up to 80
160/250	-	12 (bars)

CALPEX PUR-KING Heating, DUO



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	0.80	up to 291
40+40/126	0.65	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**

** on request

CALPEX SANITARY, UNO



Type mm	bending-radius (m)	Delivery length (m)
20/76	0.45	up to 1000
25/76	0.50	up to 1000
32/76	0.50	up to 1000
40/91 PLUS	0.55	up to 715
50/111	0.60	up to 450
63/126	0.65	up to 291

CALPEX SANITARY, DUO



Type mm	bending-radius (m)	Delivery length (m)
25+20/91	0.55	up to 715
32+20/111	0.60	up to 450
40+25/126	0.65	up to 291
50+32/126	0.65	up to 291

CALPEX QUADRIGA Heating/SANITARY



Type mm	bending-radius (m)	Delivery length (m)
25+25+25+20/142	0.70	up to 180
32+32+25+20/142	0.70	up to 180
32+32+32+20/142	0.70	up to 180
40+40+40+25/162	1.10	up to 105

Areas of application

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

Operating parameters

Max. permitted operating temp.: 95 °C

Max. temp. for continuous operation: 80 °C

Max. operating pressure: 6/10 bar

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