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| Pos. | Qty. | Designation | Item priceEUR  | Total priceEUR  |
|  |  | Heating range**CALPEX PUR KING** district heating pipe, heating, suitable up to max. 95°C (sliding) and 6 bar, longitudinally watertight, consisting of:**Medium pipe:** made of cross-linked polyethylene (PEXa) with oxygen diffusion barrier (EVOH)Insulation: made of continuously manufactured CFC-free, polyurethane foam with following -values:CPX PUR-KING: 50 ≤ 0.0199 W/mK (≤ Ø 142 mm)CPX PUR-KING: 50 ≤ 0.0260 W/mK (> Ø 202mm)**Outer casing:** sinusoidally corrugated, seamlessly extruded-on polyethylene (LLD-PE) outer casing, including factory test. Delivery on drums or in rings.Single pipe, CALPEX UNOcont. m CALPEX PUR-KING 25/76cont. m CALPEX PUR-KING 25/91 PLUScont. m CALPEX PUR-KING 32/76cont. m CALPEX PUR-KING 32/91 PLUScont. m CALPEX PUR-KING 40/91cont. m CALPEX PUR-KING 40/111 PLUScont. m CALPEX PUR-KING 50/111cont. m CALPEX PUR-KING 50/126 PLUScont. m CALPEX PUR-KING 63/126cont. m CALPEX PUR-KING 63/142 PLUScont. m CALPEX PUR-KING 75/142cont. m CALPEX PUR-KING 75/162 PLUScont. m CALPEX PUR-KING 90/162cont. m CALPEX PUR-KING 90/182 PLUScont. m CALPEX PUR-KING 110/162cont. m CALPEX PUR-KING 110/182 PLUScont. m CALPEX PUR-KING 110/202 PLUS\*\* |   |  |
| Pos. | Qty. | Designation | Item priceEUR  | Total priceEUR |
|  |  | cont. m CALPEX PUR-KING 125/182cont. m CALPEX PUR-KING 125/202 PLUS\*\*cont. m CALPEX PUR-KING 140/202cont. m CALPEX 160/250 (only available in bars 6 or 12 m)Dual pipe, CALPEX-**DUO**cont. m CALPEX PUR-KING 2 x 25/91cont. m CALPEX PUR-KING 2 x 25/111 PLUScont. m CALPEX PUR-KING 2 x 32/111cont. m CALPEX PUR-KING 2 x 32/126 PLUScont. m CALPEX PUR-KING 2 x 40/126cont. m CALPEX PUR-KING 2 x 40/142 PLUScont. m CALPEX PUR-KING 2 x 50/162cont. m CALPEX PUR-KING 2 x 50/182 PLUScont. m CALPEX PUR-KING 2 x 63/182cont. m CALPEX PUR-KING 2 x 63/202 PLUS\*\*cont. m CALPEX PUR-KING 2 x 75/202 PLUS\*\*\*\*delivery on requestCombined range for heating/sanitaryQuadriple pipe, CALPEX-QUADRIGAcont. m CALPEX H 25+25/S 28+22/142cont. m CALPEX H 32+32/S 28+22/142cont. m CALPEX H 32+32/S 32+22/142cont. m CALPEX H 40+40/S 40+28/162Dual pipe, CALPEX-**DUO**cont. m CALPEX PUR-KING 2 x 25/91cont. m CALPEX PUR-KING 2 x 25/111 PLUScont. m CALPEX PUR-KING 2 x 32/111cont. m CALPEX PUR-KING 2 x 32/126 PLUScont. m CALPEX PUR-KING 2 x 40/126cont. m CALPEX PUR-KING 2 x 40/142 PLUScont. m CALPEX PUR-KING 2 x 50/162cont. m CALPEX PUR-KING 2 x 50/182 PLUScont. m CALPEX PUR-KING 2 x 63/182cont. m CALPEX PUR-KING 2 x 63/202 PLUS\*\*cont. m CALPEX PUR-KING 2 x 75/202 PLUS\*\*\*\*delivery on requestCombined range for heating/sanitaryQuadriple pipe, CALPEX-QUADRIGAcont. m CALPEX H 25+25/S 28+22/142cont. m CALPEX H 32+32/S 28+22/142cont. m CALPEX H 32+32/S 32+22/142cont. m CALPEX H 40+40/S 40+28/162 |  |  |
| Pos. | Qty. | Designation | Item priceEUR | Total priceEUR |
|  |  | CALPEXhouse entry bend, 90°Flank length 1.1 x 1.6 m, longitudinally watertight medium pipe made of cross-linked polyethylene (PEXa) with oxygen diffusion barrier (EVOH), insulation made of 100% CFC-free CO2-blown rigid polyurethane foam, PE foil and protective casing made of PE-HD.Bend, CALPEX UNOUnit: CALPEX 25/76Unit: CALPEX 25/91 PLUSUnit: CALPEX 32/76Unit: CALPEX 32/91 PLUSUnit: CALPEX 40/91Unit: CALPEX 40/111 PLUSUnit: CALPEX 50/111Unit: CALPEX 50/126 PLUSUnit: CALPEX 63/126Unit: CALPEX 63/142 PLUSUnit: CALPEX 75/142Unit: CALPEX 75/162 PLUSUnit: CALPEX 90/162Unit: CALPEX 90/182 PLUSUnit: CALPEX 110/162Unit: CALPEX 110/182 PLUSUnit: CALPEX 110/202 PLUSUnit: CALPEX 125/182Unit: CALPEX 125/202 PLUSUnit: CALPEX 140/225Unit: CALPEX 160/250 |  |  |
| Pos. | Qty. | Designation | Item priceEUR | Total priceEUR |
|  |  | Bend, CALPEX-DUOUnit: CALPEX 2 x 25/91Unit: CALPEX 2 x 25/111 PLUSUnit: CALPEX 2 x 32/111Unit: CALPEX 2 x 32/126 PLUSUnit: CALPEX 2 x 40/126Unit: CALPEX 2 x 40/142 PLUSUnit: CALPEX 2 x 50/162Unit: CALPEX 2 x 50/182 PLUSUnit: CALPEX 2 x 63/182Unit: CALPEX 2 x 63/202 PLUSUnit: CALPEX 2 x 75/202 PLUSBend, CALPEX -QUADRIGAUnit: CALPEX H 25+25/S 28+22/142Heating 2 x DN 20/San. DN 20+16Unit: CALPEX H 32+32/S 28+22/142Heating 2 x DN 25/San. DN 20+16Unit: CALPEX H32+32/S 32+22/142Heating 2 x DN 25/San. DN 25+16Unit: CALPEX H 40+40/S 40+28/162Heating 2 x DN 32/San DN 32+20CALPEX connection piece (screwed connection)To connect onward pipesPEX connection piece (screwed connection)With external thread suitable for: Unit: PEX 25 mmUnit: PEX 32 mmUnit: PEX 40 mmUnit: PEX 50 mmUnit: PEX 63 mmUnit: PEX 75 mmUnit: PEX 90 mmUnit: PEX 110 mm |  |  |
| Pos. | Qty. | Designation | Item priceEUR | Total priceEUR |
|  |  | CALPEX connection piece (screwed connection)With weld-on end in steel, St 37.0 suitable for:Unit: PEX 25 mmUnit: PEX 32 mmUnit: PEX 40 mmUnit: PEX 50 mmUnit: PEX 63 mmUnit: PEX 75 mmUnit: PEX 90 mmUnit: PEX 110 mmCALPEX connection piece (compression joint)With external thread suitable for:Unit: PEX 25 mmUnit: PEX 32 mmUnit: PEX 40 mmUnit: PEX 50 mmUnit: PEX 63 mmUnit: PEX 75 mmUnit: PEX 90 mmUnit: PEX 110 mmUnit: PEX 125 mmUnit: PEX 160 mm |  |  |
|  Pos. | Qty. | Designation | Item priceEUR | Total priceEUR |
|  |  | CALPEX connection piece (compression joint)With weld-on end in steel, St 37.0 suitable for:Unit: PEX 25 mmUnit: PEX 32 mmUnit: PEX 40 mmUnit: PEX 50 mmUnit: PEX 63 mmUnit: PEX 75 mmUnit: PEX 90 mmUnit: PEX 110 mmUnit: PEX 125 mmUnit: PEX 160 mmCALPEX coupling (screwed connection)To connect two CALPEX district heating pipes (without insulating material) suitable for: Unit: PEX 25 mm to 25 mmUnit: PEX 32 mm to 25 mmUnit: PEX 32 mm to 32 mmUnit: PEX 40 mm to 32 mmUnit: PEX 40 mm to 40 mmUnit: PEX 50 mm to 40 mmUnit: PEX 50 mm to 50 mmUnit: PEX 63 mm to 50 mmUnit: PEX 63 mm to 63 mmUnit: PEX 75 mm to 63 mmUnit: PEX 75 mm to 75 mmUnit: PEX 90 mm to 75 mmUnit: PEX 90 mm to 90 mmUnit: PEX 110 mm to 90 mmUnit: PEX 110 mm to 110 mm |  |  |
|  Pos. | Qty. | Designation | Item priceEUR | Total priceEUR |
|  |  | CALPEX coupling (compression joint)Unit: PEX 25 mm to PEX 25 mmUnit: PEX 32 mm to PEX 25 mmUnit: PEX 32 mm to PEX 32 mmUnit: PEX 40 mm to PEX 32 mmUnit: PEX 40 mm to PEX 40 mmUnit: PEX 50 mm to PEX 40 mmUnit: PEX 50 mm to PEX 50 mmUnit: PEX 63 mm to PEX 50 mmUnit: PEX 63 mm to PEX 63 mmUnit: PEX 75 mm to PEX 63 mmUnit: PEX 75 mm to PEX 75 mmUnit: PEX 90 mm to PEX 75 mmUnit: PEX 90 mm to PEX 90 mmUnit: PEX 110 mm to PEX 90 mmUnit: PEX 110 mm to PEX 110 mmUnit: PEX 125 mm to PEX 110 mmUnit: PEX 125 mm to PEX 125 mmUnit: PEX 160 mm to PEX 125 mmUnit: PEX 160 mm to PEX 160 mm |  |  |

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| Pos. | Qty. | Designation | Item priceEUR | Total priceEUR |
|  |  | CALPEX shrink-on end cap for damp zonesHeat-shrunk closure for house lead-ins, consisting of:molecular cross-links and modified polyolefin, coated with sealing adhesive with temperature resistance up to 125°C, including temperature measurement strip and abrasive stripShrink-on end cap for CALPEX UNOsuitable for: Unit: CALPEX 25/76 Unit: CALPEX 32/76Unit: CALPEX 40/91Unit: CALPEX 50/111Unit: CALPEX 63/126Unit: CALPEX 75/142 Unit: CALPEX 90/162 Unit: CALPEX 110/162Unit: CALPEX 110/182 PlusUnit: CALPEX 125/182 Unit: CALPEX 160/250 DN 125 |  |  |

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| Pos. | Qty. | Designation | Item priceEUR | Total priceEUR |
|  |  | Shrink-on end cap for CALPEX-DUOUnit: CALPEX 2x 25/91 DN 20Unit: CALPEX 2x 32/111 DN 25Unit: CALPEX 2x 40/126 DN 32Unit: CALPEX 2x 50/162 DN 40Unit: CALPEX 2x 63/182 DN 50Shrink-on end cap for CALPEX-QUADRIGAUnit: CALPEX H 25+25/S 28+22/142Unit: CALPEX H 32+32/S 28+22/142Unit: CALPEX H 32+32/S 32+22/142Unit: CALPEX H 40+40/S 40+28/162CALPEX end cap for dry zonesClosure for house lead-ins, consisting of: plug-on cap made of PE-LDEnd cap for CALPEX UNOUnit: CALPEX 25/76 Unit: CALPEX 32/76 Unit: CALPEX 40/91Unit: CALPEX 50/111Unit: CALPEX 63/126 Unit: CALPEX 75/142 Unit: CALPEX 90/162 Unit: CALPEX 110/162Unit: CALPEX 110/182 Plus DN 100 |  |  |

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| Pos. | Qty. | Designation | Item priceEUR | Total priceEUR |
|  |  | End cap for CALPEX-DUOUnit: CALPEX 2x 25/91Unit: CALPEX 2x 32/111Unit: CALPEX 2x 40/126Unit: CALPEX 2x 50/162Unit: CALPEX 2x 63/182End cap for CALPEX-QUADRIGAUnit: CALPEX H 25+25/S 28+22/142Unit: CALPEX H 32+32/S 28+22/142Unit: CALPEX H 32+32/S 32+22/142Unit: CALPEX H 40+40/S 40+28/162CALPEX sealing ringComprising a specially profiled neoprene ringsuitable for:Unit: outer pipe 76 mmUnit: outer pipe 91 mmUnit: outer pipe 111 mmUnit: outer pipe 126 mmUnit: outer pipe 142 mmUnit: outer pipe 162 mmUnit: outer pipe 182 mmUnit: outer pipe 250 mm |  |  |
| Pos. | Qty. | Designation | Item priceEUR | Total priceEUR |
|  |  | Sealing ring for wall leadthrough for CALPEX district heating pipe in buildings or shafts, impermeable to water pressure < 0.5 bar, seal insert type A (centering) and type C40 (sealing) for core bore or cement pipe liners. The pipe liner must be provided and installed by the customer or others.Unit: for CALPEX outer pipe ∅ 76 mm core bore ∅ 150 mm Unit: for CALPEX outer pipe ∅ 91 mm core bore ∅ 150 mm Unit: for CALPEX outer pipe ∅ 111 mm core bore ∅ 200 mm Unit: for CALPEX outer pipe ∅ 126 mm core bore ∅ 200 mm Unit: for CALPEX outer pipe ∅ 142 mm core bore ∅ 200 mm Unit: for CALPEX outer pipe ∅ 162 mm core bore ∅ 250 mm Unit: for CALPEX outer pipe ∅ 182 mm core bore ∅ 250 mm Unit: for CALPEX outer pipe ∅ 250 mm core bore ∅ 350 mm  |  |  |
| Pos. | Qty. | Designation | Item priceEUR | Total priceEUR |
|  |  | CALPEX pipe warning tapeprinted with the words "Caution! District heating pipe!"m warning tapeCALPEXUNO T-pieceFor PEX pipes (without insulating material) up to multiple-stage reductions, suitable for: CALPEX UNO T-piece: (screwed connection)Unit: PEX 22-22-22 mmUnit: PEX 25-25-25 mmUnit: PEX 28-28-28 mmUnit: PEX 32-32-32 mmUnit: PEX 32-28-32 mmUnit: PEX 32-25-32 mmUnit: PEX 32-22-32 mmUnit: PEX 32-28-28 mmUnit: PEX 32-25-25 mmUnit: PEX 40-40-40 mmUnit: PEX 40-32-40 mmUnit: PEX 40-28-40 mmUnit: PEX 40-25-40 mmUnit: PEX 40-22-40 mmUnit: PEX 40-32-32 mmUnit: PEX 40-28-32 mmUnit: PEX 40-25-32 mmUnit: PEX 40-22-32 mmUnit: PEX 50-50-50 mmUnit: PEX 50-40-50 mmUnit: PEX 50-32-50 mmUnit: PEX 50-28-50 mmUnit: PEX 50-25-50 mmUnit: PEX 50-22-50 mmUnit: PEX 50-40-40 mmUnit: PEX 50-32-40 mmUnit: PEX 50-28-40 mmUnit: PEX 50-25-40 mmUnit: PEX 50-22-40 mm |  |  |

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| Pos. | Qty. | Designation | Item priceEUR | Total priceEUR  |
|  |  | Unit: PEX 63-63-63 mmUnit: PEX 63-50-63 mmUnit: PEX 63-40-63 mmUnit: PEX 63-32-63 mmUnit: PEX 63-28-63 mmUnit: PEX 63-25-63 mmUnit: PEX 63-22-63 mmUnit: PEX 63-50-50 mmUnit: PEX 63-40-50 mmUnit: PEX 63-32-50 mmUnit: PEX 63-28-50 mmUnit: PEX 63-25-50 mmUnit: PEX 63-22-50 mmUnit: PEX 75-75-75 mmUnit: PEX 75-63-75 mmUnit: PEX 75-50-75 mmUnit: PEX 75-40-75 mmUnit: PEX 75-32-75 mmUnit: PEX 75-28-75 mmUnit: PEX 75-25-75 mmUnit: PEX 75-22-75 mmUnit: PEX 75-63-63 mmUnit: PEX 75-50-63 mmUnit: PEX 75-40-63 mmUnit: PEX 75-32-63 mmUnit: PEX 75-28-63 mmUnit: PEX 75-25-63 mmUnit: PEX 75-22-63 mmUnit: PEX 90-90-90 mmUnit: PEX 90-75-90 mmUnit: PEX 90-63-90 mmUnit: PEX 90-50-90 mmUnit: PEX 90-40-90 mmUnit: PEX 90-32-90 mmUnit: PEX 90-28-90 mmUnit: PEX 90-25-90 mmUnit: PEX 90-22-90 mmUnit: PEX 90-75-75 mmUnit: PEX 90-63-75 mmUnit: PEX 90-50-75 mmUnit: PEX 90-40-75 mmUnit: PEX 90-32-75 mmUnit: PEX 90-28-75 mmUnit: PEX 90-25-75 mm |  |  |

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| Pos. | Qty. | Designation | Item priceEUR  | Total priceEUR |
|  |  | Unit: PEX 110-110-110 mmUnit: PEX 110-90-110 mmUnit: PEX 110-75-110 mmUnit: PEX 110-63-110 mmUnit: PEX 110-50-110 mmUnit: PEX 110-40-110 mmUnit: PEX 110-32-110 mmUnit: PEX 110-28-110 mmUnit: PEX 110-25-110 mmUnit: PEX 110-22-110 mmUnit: PEX 110-90-90 mmUnit: PEX 110-75-90 mmUnit: PEX 110-63-90 mmUnit: PEX 110-50-90 mmUnit: PEX 110-40-90 mmUnit: PEX 110-32-90 mmUnit: PEX 110-28-90 mmUnit: PEX 110-25-90 mmUnit: PEX 110-22-90 mmCALPEX UNO T-piece: (compression joint)Unit: PEX 22-22-22 mmUnit: PEX 25-25-25 mmUnit: PEX 28-28-28 mmUnit: PEX 32-32-32 mmUnit: PEX 32-28-32 mmUnit: PEX 32-25-32 mmUnit: PEX 32-22-32 mmUnit: PEX 32-28-28 mmUnit: PEX 32-25-25 mmUnit: PEX 40-40-40 mmUnit: PEX 40-32-40 mmUnit: PEX 40-28-40 mmUnit: PEX 40-25-40 mmUnit: PEX 40-22-40 mmUnit: PEX 40-32-32 mmUnit: PEX 40-28-32 mmUnit: PEX 40-25-32 mm |  |  |

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|  |  | Unit: PEX 50-50-50 mmUnit: PEX 50-40-50 mmUnit: PEX 50-32-50 mmUnit: PEX 50-28-50 mmUnit: PEX 50-25-50 mmUnit: PEX 50-22-50 mmUnit: PEX 50-40-40 mmUnit: PEX 50-32-40 mmUnit: PEX 50-28-40 mmUnit: PEX 50-25-40 mmUnit: PEX 50-22-40 mmUnit: PEX 63-63-63 mmUnit: PEX 63-50-63 mmUnit: PEX 63-40-63 mmUnit: PEX 63-32-63 mmUnit: PEX 63-28-63 mmUnit: PEX 63-25-63 mmUnit: PEX 63-22-63 mmUnit: PEX 63-50-50 mmUnit: PEX 63-40-50 mmUnit: PEX 63-32-50 mmUnit: PEX 63-28-50 mmUnit: PEX 63-25-50 mmUnit: PEX 63-22-50 mmUnit: PEX 75-75-75 mmUnit: PEX 75-63-75 mmUnit: PEX 75-50-75 mmUnit: PEX 75-40-75 mmUnit: PEX 75-32-75 mmUnit: PEX 75-28-75 mmUnit: PEX 75-25-75 mmUnit: PEX 75-22-75 mmUnit: PEX 75-63-63 mmUnit: PEX 75-50-63 mmUnit: PEX 75-40-63 mmUnit: PEX 75-32-63 mmUnit: PEX 75-28-63 mmUnit: PEX 75-25-63 mmUnit: PEX 75-22-63 mm |  |  |

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| Pos. | Qty. | Designation | Item priceEUR | Total priceEUR |
|  |  | Unit: PEX 90-90-90 mmUnit: PEX 90-75-90 mmUnit: PEX 90-63-90 mmUnit: PEX 90-50-90 mmUnit: PEX 90-40-90 mmUnit: PEX 90-32-90 mmUnit: PEX 90-28-90 mmUnit: PEX 90-25-90 mmUnit: PEX 90-22-90 mmUnit: PEX 90-75-75 mmUnit: PEX 90-63-75 mmUnit: PEX 90-50-75 mmUnit: PEX 90-40-75 mmUnit: PEX 90-32-75 mmUnit: PEX 90-28-75 mmUnit: PEX 90-25-75 mmUnit: PEX 90-22-75 mmUnit: PEX 110-110-110 mmUnit: PEX 110-90-110 mmUnit: PEX 110-75-110 mmUnit: PEX 110-63-110 mmUnit: PEX 110-50-110 mmUnit: PEX 110-40-110 mmUnit: PEX 110-32-110 mmUnit: PEX 110-28-110 mmUnit: PEX 110-25-110 mmUnit: PEX 110-22-110 mmUnit: PEX 110-90-90 mmUnit: PEX 110-75-90 mmUnit: PEX 110-63-90 mmUnit: PEX 110-50-90 mmUnit: PEX 110-40-90 mmUnit: PEX 110-32-90 mmUnit: PEX 110-28-90 mmUnit: PEX 110-25-90 mmUnit: PEX 110-22-90 mmUnit: PEX 125-125-125 mm\*Unit: PEX 125-110-125 mm\*Unit: PEX 125-90-125 mm\*Unit: PEX 125-75-125 mm\*Unit: PEX 125-63-125 mm\*Unit: PEX 125-50-125 mm\*Unit: PEX 125-40-125 mm\*Unit: PEX 125-32-125 mm\*Unit: PEX 125-25-125 mm\* |  |  |
| Pos. | Qty. | Designation | Item priceEUR | Total priceEUR |
|  |  |  Unit: PEX 160-160-160 mm\*Unit: PEX 160-125-160 mm\*Unit: PEX 160-110-160 mm\*Unit: PEX 160-90-160 mm\*Unit: PEX 160-75-160 mm\*Unit: PEX 160-63-160 mm\*Unit: PEX 160-50-160 mm\*Unit: PEX 160-40-160 mm\*Unit: PEX 160-32-160 mm\*Unit: PEX 160-25-160 mm\*\* Dimensions 125 mm and 160 mm are delivered fully pre-insulatedCALPEX Y-pipePre-insulated longitudinally watertight connecting element between two single pipes and one CALPEX-DUO pipe. CALPEX -DUO to CALPEX UNO medium pipe (PE-Xa) suitable for:Unit: 25+25/91 to 1 x 25/76 ea.Unit: 32+32/111 to 1x 32/76 ea.Unit: 40+40/126 to 1 x 40/91 ea.Unit: 50+50/162 to 1 x 50/111 ea.Unit: 63+63/182 to 1 x 63/126 ea. |  |  |

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| Pos. | Qty. | Designation | Item priceEUR | Total priceEUR |
|  |  | CALPEX Y-pipe plastic casing pipePlastic casing pipe to CALPEX-DUOMedium pipe in steel, St 37.0suitable for:Unit: 2 x 26.9-110 to 25+25/91 (reduction joint)Unit: 2 x 33.7-110 to 32+32/111Unit: 2 x 42.4-125 to 40+40/126Unit: 2 x 48.3-125 to 50+50/162Unit: 2 x 60.3-140 to 63+63/182Tool for rent for compression connectorDimensions: ø 22 – 40 mmTool for dimensions DN 16 – 32, consisting of: tool box, opening/widening tool and compression tool UnitTool set for rent for compression connectorDimensions: ø 50 – 110 mmSet consisting of: 2 tool boxes1 tool box with opening/widening tool, DN 40 - 1001 tool box with compression tool, DN 40 - 100Both tool boxes are needed1 SetTool set for rent for compression connectorDimensions: ø 125 – 160 mmSet consisting of: 2 tool boxes1 tool box with opening/widening tool, DN 125 - 1601 tool box with compression tool, DN 125 - 160Both tool boxes are needed1 Set |  |  |

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| Pos. | Qty. | Designation | Item priceEUR | Total priceEUR |
|  |  | SanitaryCALPEX district heating pipe, sanitary standardSuitable up to max. 95°C (sliding) and 10 bar, longitudinally watertight, consisting of: medium pipe made of cross-linked polyethylene (PE-Xa) with oxygen diffusion barrier (EVOH), insulation made of continuously manufactured CFC-free, CO2-blown flexible rigid polyurethane foam, PE foil and a sinusoidally corrugated, seamlessly extruded-on polyethylene (LLD-PE) outer casing, including factory test. Delivery on drums or in rings.Single pipe, CALPEX UNOcont. m CALPEX 22/76 DN 16cont. m CALPEX 28/76 DN 20cont. m CALPEX 32/76 DN 25cont. m CALPEX 40/91 DN 32cont. m CALPEX 50/111 DN 40cont. m CALPEX 63/126 DN 50Dual pipe, CALPEX-DUOcont. m CALPEX 28+22/91 DN 20+16cont. m CALPEX 32+22/111 DN 25+16cont. m CALPEX 40+28/126 DN 32+20cont. m CALPEX 50+32/126 DN 40+25 |  |  |

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| Pos. | Qty. | Designation | Item priceEUR | Total priceEUR |
|  |  | CALPEX district heating pipe, sanitary, with heating strip conduit for hot water tracing or frost protectionSuitable up to max. 95°C (sliding) and 10 bar, longitudinally watertight, consisting of medium pipe made of cross-linked polyethylene (PE-Xa) with oxygen diffusion barrier (EVOH), foamed-in heating strip conduit, insulation made of continuously manufactured CFC-free, CO2 -blown flexible rigid polyurethane foam, PE foil and a sinusoidally corrugated, seamlessly extruded-on polyethylene (LLD-PE) outer casing, including factory test.Delivery on drums or in rings.Single pipe, CALPEX UNO with heating strip cablecont. m CALPEX 32/111 DN 25cont. m CALPEX 40/126 DN 32cont. m CALPEX 50/126 DN 40CALPEXhouse entry bend, 90°Flank length 1.1 x 1.6 m, longitudinally watertight,medium pipe made of cross-linked polyethylene (PE-Xa) with oxygen diffusion barrier (EVOH), insulation made of 100% CFC-free CO2-blown rigid polyurethane foam, PE foil and protective casing made of PE-HD. Bend, CALPEX UNOUnit: CALPEX 22/76 DN 16Unit: CALPEX 28/76 DN 20Unit: CALPEX 32/76 DN 25Unit: CALPEX 40/91 DN 32Unit: CALPEX 50/111 DN 40Unit: CALPEX 63/126 DN 50Bend, CALPEX DuoUnit: CALPEX 28+22/91 DN 20+16Unit: CALPEX 32+22/111 DN 25+16Unit: CALPEX 40+28/126 DN 32+20Unit: CALPEX 50+126 DN 40+25 |  |  |

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| Pos. | Qty. | Designation | Item priceEUR  | Total priceEUR |
|  |  | CALPEX connection pieceTo connect onward pipesPEX connection piece (screwed connection)With external thread suitable for:Unit: PEX 22 mmUnit: PEX 28 mmUnit: PEX 32 mmUnit: PEX 40 mmUnit: PEX 50 mmUnit: PEX 63 mmPEX connection piece (screwed connection)With weld-on end in steel, St 37.0 suitable for:Unit: PEX 22 mmUnit: PEX 28 mmPEX connection piece (compression joint)With external thread suitable for:Unit: PEX 22 mmUnit: PEX 28 mmUnit: PEX 32 mmUnit: PEX 40 mmUnit: PEX 50 mmUnit: PEX 63 mm |  |  |

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| Pos. | Qty. | Designation | Item priceEUR  | Total priceEUR |
|  |  | PEX connection piece (compression joint)With weld-on end in steel, St 37.0 suitable for:Unit: PEX 22 mmUnit: PEX 28 mmCALPEX couplingTo connect two CALPEX district heating pipes (without insulating material) suitable for: CALPEX coupling (screwed connection)Unit: PEX 22 mm to PEX 22 mmUnit: PEX 28 mm to PEX 28 mmUnit: PEX 32 mm to PEX 28 mmUnit: PEX 32 mm to PEX 32 mmUnit: PEX 40 mm to PEX 32 mmUnit: PEX 40 mm to PEX 40 mmUnit: PEX 50 mm to PEX 40 mmUnit: PEX 50 mm to PEX 50 mmUnit: PEX 63 mm to PEX 50 mmUnit: PEX 63 mm to PEX 63 mmCALPEX coupling (compression joint)Unit: PEX 22 mm to PEX 22 mmUnit: PEX 28 mm to PEX 28 mmUnit: PEX 32 mm to PEX 28 mmUnit: PEX 32 mm to PEX 32 mmUnit: PEX 40 mm to PEX 32 mmUnit: PEX 40 mm to PEX 40 mmUnit: PEX 50 mm to PEX 40 mmUnit: PEX 50 mm to PEX 50 mmUnit: PEX 63 mm to PEX 50 mmUnit: PEX 63 mm to PEX 63 mm |  |  |
| Pos. | Qty. | Designation | Item priceEUR  | Total priceEUR  |
|  |  | CALPEX shrink-on end cap for damp zonesHeat-shrunk closure for house installations, consisting of:molecular cross-linked and modified polyolefin, coated with sealing adhesive with temperature resistance up to 125° C. Including temperature measuring strip and abrasive strip.Shrink-on end cap for CALPEX UNOsuitable for: Unit: CALPEX 22/76Unit: CALPEX 28/76Unit: CALPEX 32/76Unit: CALPEX 32/111Unit: CALPEX 40/91Unit: CALPEX 40/126Unit: CALPEX 50/111Unit: CALPEX 50/126Unit: CALPEX 63/126Shrink-on end cap for CALPEX-DUOsuitable for: Unit: CALPEX 28+22/91Unit: CALPEX 32+22/111Unit: CALPEX 40+28/126Unit: CALPEX 50+32/126 |  |  |
| Pos. | Qty. | Designation | Item priceEUR  | Total priceEUR |
|  |  | CALPEX end cap for dry zonesClosure for house lead-insComprising: plug-on cap made of PE-LDEnd cap for CALPEX UNOsuitable for: Unit: CALPEX 22/76Unit: CALPEX 28/76Unit: CALPEX 32/76Unit: CALPEX 32/111Unit: CALPEX 40/91Unit: CALPEX 40/126Unit: CALPEX 50/111Unit: CALPEX 50/126Unit: CALPEX 63/126End cap for CALPEX-DUOsuitable for: Unit: CALPEX 28+22/91Unit: CALPEX 32+22/111Unit: CALPEX 40+28/126Unit: CALPEX 50+32/126 |  |  |

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|  |  | CALPEX sealing ringComprising a specially profiled neoprene ring, suitable for:Unit: outer pipe 76 mmUnit: outer pipe 91 mmUnit: outer pipe 111 mmUnit: outer pipe 126 mmSealing ring for wall leadthrough for CALPEX district heating pipe in buildings or shafts, impermeable to water pressure < 0.5 bar, available as seal insert type A (centering) and type C40 (sealing) for core bore or cement pipe liners. The pipe liner must be provided and installed by the customer or others.Unit: for CALPEX outer pipe ∅ 76 mm core bore ∅ 150 mm Unit: for CALPEX outer pipe ∅ 91 mm core bore ∅ 150 mm Unit: for CALPEX outer pipe ∅ 111 mm core bore ∅ 200 mm Unit: for CALPEX outer pipe ∅ 126 mm core bore ∅ 200 mm CALPEXpipe warning tapeprinted with the words "Caution! District heating pipe!"m warning tape |  |  |
|  Pos. | Qty. | Designation | Item priceEUR  | Total priceEUR |
|  |  | CALPEXUNO T-pieceIn brass, for PEX pipes (without insulating material) up to multiple-stage reductions, suitable for:On request:Tool for rent for compression connectorDimensions: ø 22 – 40 mmTool for dimensions DN 16 – 32, consisting of: tool box, opening/widening tool and compression tool UnitTool set for rent for compression connectorDimensions: ø 50 – 110 mmSet consisting of: 2 tool boxes1 tool box with opening/widening tool, DN 40 - 1001 tool box with compression tool, DN 40 - 100Both tool boxes are needed1 SetTool set for rent for compression connectorDimensions: ø 125 – 160 mmSet consisting of: 2 tool boxes1 tool box with opening/widening tool, DN 125 - 1501 tool box with compression tool, DN 125 - 150Both tool boxes are needed1 Set |  |  |
| Pos. | Qty. | Designation | Item priceEUR  | Total priceEUR |
|  |  | CALPEX joint setType CALPEX-CALPEXFor 6 and 10 bar pipes, with PE foam, consisting of: one PE-HD joint pipe (for reduction joints: reduced on one side), two PE shrink-on sleeves and one abrasive strip.Joint set, CPX-CPX for CALPEX UNO with PE foam, suitable for:Unit: outer pipe 76 mm to 76 mmUnit: outer pipe 91 mm to 91 mmUnit: outer pipe 91 mm to 76 mmUnit: outer pipe 111 mm to 111 mmUnit: outer pipe 111 mm to 91 mmUnit: outer pipe 126 mm to 126 mmUnit: outer pipe 126 mm to 111 mmUnit: outer pipe 142 mm to 142 mmUnit: outer pipe 142 mm to 126 mmUnit: outer pipe 162 mm to 162 mmUnit: Outer pipe, 162 mm to 142 mmUnit: outer pipe 182 mm to 182 mmUnit: outer pipe 182 mm to 162 mm |  |  |

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|  |  | Joint set, CPX-CPX for CALPEX-DUO with PE foam, suitable for:Unit: outer pipe 91 mm to 91 mmUnit: outer pipe 111 mm to 111 mmUnit: outer pipe 111 mm to 91 mmUnit: outer pipe 126 mm to 126 mmUnit: outer pipe 126 mm to 111 mmUnit: outer pipe 142 mm to 142 mmUnit: outer pipe 142 mm to 126 mmUnit: outer pipe 162 mm to 162 mmUnit: outer pipe 162 mm to 142 mmUnit: outer pipe 182 mm to 182 mmUnit: outer pipe 182 mm to 162 mm |  |  |

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|  |  | CALPEX joint setType CALPEX - plastic casing pipe (PCP)For 6 and 10 bar pipes, with PE foam,consisting of:one PE-HD joint pipe (for reduction joints: reduced on one side), two PE shrink-on sleeves, PE foam and one abrasive strip.Joint set, CPX-PCPfor single pipe with PE foam, suitable for:Unit: outer pipe 91 mm to 76 mmUnit: outer pipe 76 mm to 90 mmUnit: outer pipe 76mm to 110 mmUnit: outer pipe 76 mm to 125 mmUnit: outer pipe 91 mm to 90 mmUnit: outer pipe 91 mm to 110 mmUnit: outer pipe 91 mm to 125 mmUnit: outer pipe 91 mm to 140 mmUnit: outer pipe 111 mm to 90 mmUnit: outer pipe 111 mm to 110 mmUnit: outer pipe 111 mm to 125 mmUnit: outer pipe 111 mm to 140 mmUnit: outer pipe 126 mm to 110 mmUnit: outer pipe 126 mm to 125 mmUnit: outer pipe 126 mm to 140 mmUnit: outer pipe 126 mm to 160 mmUnit: outer pipe 142 mm to 125 mmUnit: outer pipe 142 mm to 140 mmUnit: outer pipe 142 mm to 160 mmUnit: outer pipe 142 mm to 180 mmUnit: outer pipe 162 mm to 140 mmUnit: outer pipe 162 mm to 160 mmUnit: outer pipe 162 mm to 180 mmUnit: outer pipe 162 mm to 200 mmUnit: outer pipe 162 mm to 225 mmUnit: outer pipe 162 mm to 250 mmUnit: outer pipe 182 mm to 140 mmUnit: outer pipe 182 mm to 160 mmUnit: outer pipe 182 mm to 180 mmUnit: outer pipe 182 mm to 200 mmUnit: outer pipe 182 mm to 225 mmUnit: outer pipe 182 mm to 250 mm |  |  |
| Pos. | Qty. | Designation | Item priceEUR  | Total priceEUR |
|  |  | Joint set, CPX-PCP for dual pipe with PE foam, suitable for: Unit: outer pipe 91 mm to 90 mmUnit: outer pipe 111 mm to 110 mmUnit: outer pipe 126 mm to 125 mmUnit: outer pipe 142 mm to 140 mmUnit: outer pipe 162 mm to 160 mmUnit: outer pipe 182 mm to 180 mm |  |  |

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|  |  | CALPEX jointsInsulating material: PUR foam packingCALPEX joint setType CALPEX-CALPEXFor 6 and 10 bar pipes, with polyurethane foam packing, consisting of: one PE-HD joint pipe (for reduction joints: reduced on one side), two PE shrink-on sleeves, foam packing and one abrasive strip.Joint set, CPX-CPXfor CALPEX UNO with PUR foam packingsuitable for:Unit: outer pipe 76 mm to 76 mmUnit: outer pipe 91 mm to 91 mmUnit: outer pipe 91 mm to 76 mmUnit: outer pipe 111 mm to 111 mmUnit: outer pipe 111 mm to 91 mmUnit: outer pipe 126 mm to 126 mmUnit: outer pipe 126 mm to 111 mmUnit: outer pipe 142 mm to 142mmUnit: outer pipe 142 mm to 126 mmUnit: outer pipe 162 mm to 162 mmUnit: outer pipe 162 mm to 142 mmUnit: outer pipe 182 mm to 182 mmUnit: outer pipe 182 mm to 162 mmUnit: outer pipe 250 mm to 250 mmUnit: outer pipe 250 mm to 182 mm |  |  |

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|  |  | Joint set, CPX-CPXfor CALPEX Duo with PUR foam packingsuitable for:Unit: outer pipe 91 mm to 91 mmUnit: outer pipe 111 mm to 111 mmUnit: outer pipe 111 mm to 91 mmUnit: outer pipe 126 mm to 126 mmUnit: outer pipe 126 mm to 111 mmUnit: outer pipe 142 mm to 142 mmUnit: outer pipe 142 mm to 126 mmUnit: outer pipe 162 mm to 162 mmUnit: outer pipe 162 mm to 142 mmUnit: outer pipe 182 mm to 182 mmUnit: outer pipe 182 mm to 162 mm |  |  |

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|  |  | CALPEX joint setType CALPEX - plastic casing pipe (PCP)For 6 and 10 bar pipes, with foam packing, consisting of: one PE-HD joint pipe (for reduction joints: reduced on one side), two PE shrink-on sleeves, foam packing and one abrasive strip.Joint set, CPX-PCP for single pipe with PUR foam packing, suitable for:Unit: outer pipe 76 mm to 90 mmUnit: outer pipe 76 mm to 110 mmUnit: outer pipe 76 mm to 125 mmUnit: outer pipe 91 mm to 90 mmUnit: outer pipe 91 mm to 110 mmUnit: outer pipe 91 mm to 125 mmUnit: outer pipe 91 mm to 140 mmUnit: outer pipe 111 mm to 90 mmUnit: outer pipe 111 mm to 110 mmUnit: outer pipe 111 mm to 125 mmUnit: outer pipe 111 mm to 140 mmUnit: outer pipe 126 mm to 110 mmUnit: outer pipe 126 mm to 125 mmUnit: outer pipe 126 mm to 140 mmUnit: outer pipe 126 mm to 160 mmUnit: outer pipe 142 mm to 125 mmUnit: outer pipe 142 mm to 140 mmUnit: outer pipe 142 mm to 160 mmUnit: outer pipe 142 mm to 180 mmUnit: outer pipe 162 mm to 140 mmUnit: outer pipe 162 mm to 160 mmUnit: outer pipe 162 mm to 180 mmUnit: outer pipe 162 mm to 200 mmUnit: outer pipe 162 mm to 225 mmUnit: outer pipe 162 mm to 250 mmUnit: outer pipe 182 mm to 140 mmUnit: outer pipe 182 mm to 160 mmUnit: outer pipe 182 mm to 180 mmUnit: outer pipe 182 mm to 200 mmUnit: outer pipe 182 mm to 225 mmUnit: outer pipe 182 mm to 250 mm |  |  |
| Pos. | Qty. | Designation | Item priceEUR | Total priceEUR |
|  |  | Joint set, CPX-PCP for CALPEX DUO pipe with PUR foam packingsuitable for: Unit: outer pipe 91 mm to 90 mmUnit: outer pipe 111 mm to 110 mmUnit: outer pipe 126 mm to 125 mmUnit: outer pipe 142 mm to 140 mmUnit: outer pipe 162 mm to 160 mmUnit: outer pipe 182 mm to 180 mmCALPEX assembly T-piece: (≤ ø 126 mm)CALPEX UNO T-piece set consisting of:two ABS half-shells made of highly resistantacrylonitrile-butadiene-styrene (ABS), including reduction rings for the relevant outer pipe diameters, fast-action adhesive, venting plugs (3 x), fast-action clamps (16 x) and one polyurethane foam pack, suitable for: Unit: outer pipe 76-76-76 mmUnit: outer pipe 91-91-91 mmUnit: outer pipe 91-76-91 mmUnit: outer pipe 91-76-76 mmUnit: outer pipe 111-111-111 mmUnit: outer pipe 111-91-111 mmUnit: outer pipe 111-76-111 mmUnit: outer pipe 111-76-91 mmUnit: outer pipe 111-76-76 mmUnit: outer pipe 111-91-91 mmUnit: outer pipe 111-76-91 mmUnit: outer pipe 111-76-76 mmUnit: outer pipe 126-126-126 mmUnit: outer pipe 126-111-126 mmUnit: outer pipe 126-91-126 mmUnit: outer pipe 126-76-126 mmUnit: outer pipe 126-111-111 mmUnit: outer pipe 126-91-111 mmUnit: outer pipe 126-76-111 mmUnit: outer pipe 126-91-91 mmUnit: outer pipe 126-91-76 mmUnit: outer pipe 126-76-91 mmUnit: outer pipe 126-76-76 mm |  |  |

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|  |  | CALPEX assembly T-piece: (≥ ø 126 mm)CALPEX UNO T-piece set consisting of:two GFK half-shells in break-resistant glass fiber polyester (incl. reduction rings for the corresponding outer pipe diameters), screw valve in brass, sealing strip, screw set and one polyurethane foam pack, suitable for: Unit: outer pipe 142-142-142 mmUnit: outer pipe 142-126-142 mmUnit: outer pipe 142-111-142 mmUnit: outer pipe 142-91-142 mmUnit: outer pipe 142-76-142 mmUnit: outer pipe 142-126-126 mmUnit: outer pipe 142-111-126 mmUnit: outer pipe 142-91-126 mmUnit: outer pipe 142-76-126 mmUnit: outer pipe 162-162-162 mmUnit: outer pipe 162-142-162 mmUnit: outer pipe 162-126-162 mmUnit: outer pipe 162-111-162 mmUnit: outer pipe 162-91-162 mmUnit: outer pipe 162-76-162 mmUnit: outer pipe 162-142-142 mmUnit: outer pipe 162-126-142 mmUnit: outer pipe 162-111-142 mmUnit: outer pipe 162-91-142 mmUnit: outer pipe 162-76-142 mmUnit: outer pipe 182-182-182 mmUnit: outer pipe 182-162-182 mmUnit: outer pipe 182-142-182 mmUnit: outer pipe 182-126-182 mmUnit: outer pipe 182-111-182 mmUnit: outer pipe 182-91-182 mmUnit: outer pipe 182-182-162 mmUnit: outer pipe 182-162-162 mmUnit: outer pipe 182-142-162 mmUnit: outer pipe 182-126-162 mmUnit: outer pipe 182-111-162 mmUnit: outer pipe 182-91-162 mmUnit: outer pipe 182-182-142 mmUnit: outer pipe 182-162-142 mmUnit: outer pipe 182-142-142 mmUnit: outer pipe 182-126–142 mmUnit: outer pipe 182-111–142 mmUnit: outer pipe 182-91–142 mm |  |  |

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|  |  |  CALPEXdistributor shaftIn polyethylene with 8 x pipe connection sockets for all CALPEX dimensions to fit T-pieces, couplings and shut-off valves. The heat insulation for the shaft pipework must be provided by the customer or others.Seal set for pipe connection socket, distributor shaftUnit: for CALPEX outer pipe ∅ 76 mm with additional centering ringUnit: for CALPEX outer pipe ∅ 91 mm with additional centering ringUnit: for CALPEX outer pipe ∅ 111 mm Unit: for CALPEX outer pipe ∅ 126 mm with additional centering ringUnit: for CALPEX outer pipe ∅ 142 mm Unit: for CALPEX outer pipe ∅ 162 mm with additional centering ringUnit: for CALPEX outer pipe ∅ 182 mm |  |  |

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|  |  | Transport of de CALPEX ringsMax. delivery height: 2800 mmMax. delivery width: 800/1200 mmMax. delivery length: up to 760 m depending on dimensionDelivery weight: 1 – 6.38 kg/mAccessories: cardboard-packsWhen using a fork-lift to unload the rings, the forks should be protected in order to avoid cutting into the pipe casing.Storage of the CALPEX ringsBefore laying, pipes must be stored at min. 5 °CDo not remove protective caps before layingStore dry cardboard with accessoriesLaying of the CALPEX ringsDo not roll the CALPEX-ring out over edges, and do not pull the unrolled pipe over long distances on the asphalt. This can cause damage to the protective polyethylene casing. Damaged points on the casing can be repaired, using the shrink socket.If necessary (e.g. if the laying temperature is low, or the pipe diameter is large) curved pipe ends can be bent straight with the help of an aligning rail.IMPORTANT!CALPEX-rings are under tension! Under no circumstances must you cut all the fixing tapes together.Uncontrolled release of the tension in the rings is DANGEROUS (spring effect). |  |  |