



# VI. Pex Piping Systems

## Piping System **MCC Pex**

# Easy, economical, reliable and revolutionary

The MCCPex is an innovative and economically priced piping system for glycol based heating systems. MCC's Pex proven design has been used in buses for over a decade. Unlike traditional rigid copper piping, the MCCPex uses

flexible polyethylene piping and combined with simple installation/ coupling process, it greatly reduces weight, the amount of parts used during installation, thus reducing total system and labour cost.



### Features

- State of the art crosslink thermoplastic design
- Designed for vehicles with glycol based heating systems
- Pipes will not corrode
- Easy to install (ideal for prototyping)
- High R value
- Simple tooling (No welding and brazing)
- Low flow resistance
- Substantial savings compare to traditional system
  - Cost considerably less than copper piping systems
  - Save up to 30% in weight compare to copper pipes (improved fuel savings)
  - Save up to 50% installation time (reduced labour time)

**Quick and easy mounting –  
Quick and simple installation**



1. Push support ring over the PEX pipe



2. Expand the PEX pipe with the hydraulic expanding tool



3. Insert coupling. The PEX pipe will contract and create a tight connection. (Allow one hour for PEX pipe to set before pressure testing.)

**Standard MCCPex range**

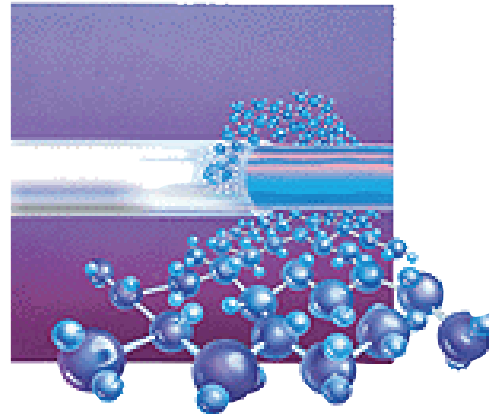
|                     |                         |
|---------------------|-------------------------|
| Available dimension | Ø 16, 20, 25, 32, 40 mm |
| Standard lengths    | 5, 6 and 50 m           |
| Connection variants | straight, elbow, T-pipe |

**Customized MCCPex**

MCCPex can be ordered with customized bends and couplings. MCC will bend and insert couplings according to the customer’s drawings. To make installation simple and effortless, MCC can also pre-bend PEX piping according to customer’s specifications, to be delivered in a kit for immediate installation

**About the material**

The MCCPex piping is made of crosslink (X) polyethylene (PE) where long polyethylene chains are cross-linked with peroxide to improve high temperature properties.



**Typical bus installation**

With its flexible design, heating components can be connected by bending the PEX pipe without the use of elbows and couplings thus reducing installation labour and maintenance costs.

