



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

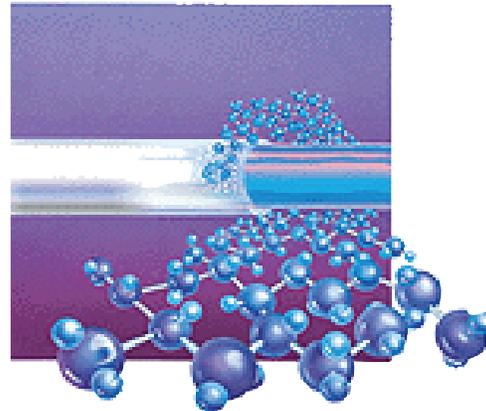
Available dimension	Ø 16, 20, 25, 32, 40 mm
Standard lengths	5, 6 and 50 m
Connection variants	straight, elbow, T-pipe

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.

