



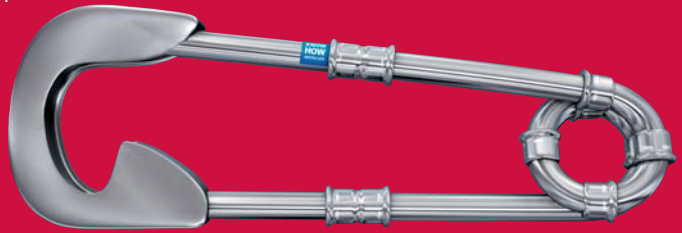
■ GEBERIT

Geberit Supply Systems Industry: Processing

May 2007

Geberit Pressfitting Systems

Modern processing industry involves a wide variety of applications for supply pipework systems- including coolants, control air, chilled and heated water, lubricants, fire extinguisher systems, compressed air and potable water. The mapress pressfit piping system meets all the requirements of these uses and is approved for use with over 200 chemicals.



Cold pressed jointing offers many benefits over threading, soldering, brazing or welding. Custom press tools ensure precision pressing of joints with no hot work, open flames, hazardous substances or chemicals, which is especially important in areas where flammable materials may be present.

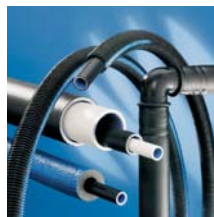
Mapress pipe systems are lighter than conventional alternatives and easier to handle during installation. The unique geometry of Mapress press fittings gives greater seal contact area for added security and our patented leak path o-ring seal provides an instant visual indication of un-pressed joints, removing the need for subsequent inspection.

Available in outside diameters from 12mm to 108mm with working pressures to 16 bar, Mapress pipes and fittings are available in Stainless Steel (BS316 and BS304), Carbon Steel and Copper.

Our comprehensive range reduces the number of fittings required during installation - perfect for complex systems in confined spaces.

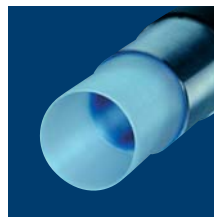
High grade pipe materials allow consistent on-site bending and high corrosion resistance. The risk of corrosion is minimised with fully annealed seam welds and the high Molybdenum content of Mapress steel pipes ensures excellent durability.

All components are 100% pressure tested to ensure perfectly tight, reliable connections that cannot be pulled apart.



A multi layered composite piping system suitable for hot and cold water, heating and chilled water supplies,

Mepla system pipes and fittings are available in diameters from 16mm to 75mm and are suitable for an operating pressure of up to 10 bar and operating temperatures of up to 70°C.



The composite structure offers the flexibility and ease associated with the installation of plastic pipes

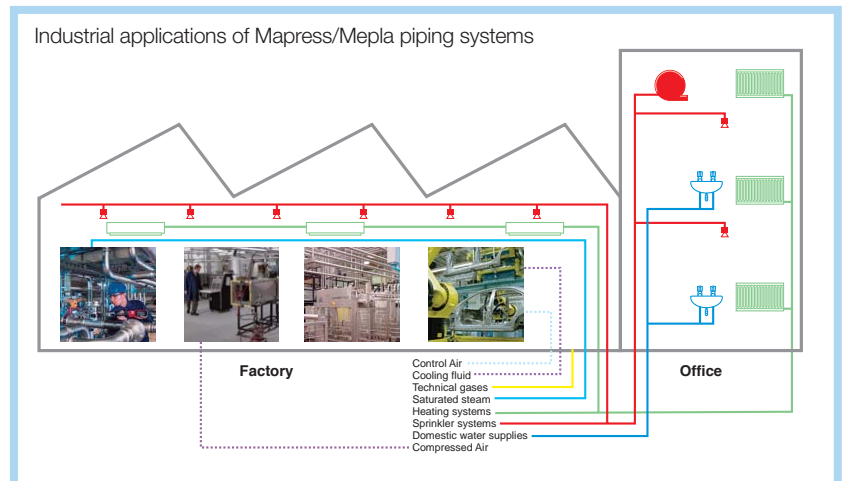
combined with the durability and stability of a metallic system. The internal PEX core prevents limescale and bacteria build up increasing hygiene, whilst the edge welded aluminium middle layer provides strength and stability; the HDPE outer gives excellent impact and abrasion resistance.



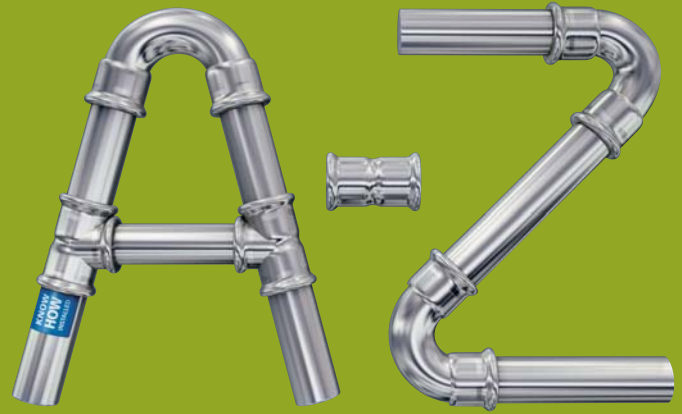
Mapress in use: simple and clean



Patented leak path seal rings



Advantages and Applications



Advantages

- **Fast installation:** minimum machinery downtime ensures maximum plant availability.
- **Cost reduction:** fast and safe assembly methods allow typical installation time reductions of over 35% compared to welded or threaded joints.
- **Easy handling:** Mapress pipes and fittings offer weight savings of up to 60% compared to traditional products.
- **Suitable for use in clean environments:** no sealing compounds, lubricants or flames- minimising disruption during fitting and maintenance.
- **Ideal for fabrication and modular design:** large sections can be pre-assembled to save time on-site.
- **No fire hazard:** all joints made cold, ideal for repairing and modifying existing systems - no naked flame.
- **High quality:** Mapress stainless steel pipes and fittings have an increased molybdenum content to resist corrosion resulting in a longer service life.

Applications

- Hot and cold general water supplies, e.g. cooling water for production line machinery, potable water supplies.
- Low pressure control air where high system reliability is needed.
- Compressed air supply lines up to 16 bar both with and without lubrication.
- Supply of fuels, coolants, cooking fats, brine solutions and other liquids to production line machinery.
- Range of stainless steel fittings with pre-installed yellow H-NBR seal rings for use with natural gas and LPG for industrial burners.
- FM approval for sprinkler system installation.

Application	Material
Cooling water	✓✓✓✓
Process liquids	✓✓✓
Demineralised water	✓
Oil/water emulsion	✓✓
Cooking fats	✓✓
Fuel oils (based on mineral oils)	✓
Cooling liquid / anti freeze	✓
Brine solutions	✓
Alcohol solutions	✓
Control air	✓
Compressed air	✓✓✓
Nitrogen	✓
Oxygen	✓
Natural gas / LPG	✓
Solvents	✓

Geberit Mapress stainless steel ✓
 Geberit Mapress carbon steel ✓
 Geberit Mapress copper ✓
 Geberit Mepla ✓

Application	Mapress seal ring material				
	Butylic Rubber (black)	H-NBR (Yellow-brown)	FEKM (light green)	FKM (dark green)	FKM (red)
Belt lubricants					✓
Detergent	✓				
Fruit oils					✓
Colour Pigments	✓				✓
Mould release agents					✓
Alcohol solutions	✓				✓
Bleach	✓				
Cooking fats					✓
Cooling fluid					✓
Disinfectant					✓
Dry air	✓				
Dry sprinkler					✓
Fuel gases		✓			
Fuel oil					✓
Lubricated air					✓
Oxygen	✓				
Solar systems				✓	
Steam			✓		
Water	✓				
Wet sprinkler	✓				✓

Approvals and References

References

- Drinks producer, Cologne (production of lemonade)
- Food producer, Grasbrunn (production of fancy food)
- Food production, Bargteheide (production of honey)
- Food production (slaughter house)
- Food production (Sweet manufacturing)
- Food preparation, Newcastle
- Food production, Plymouth (Sweet manufacture)
- Drink producer, London Food preparation

Approvals



Factory Mutual approval for use in wet and dry sprinkler systems.



VdTUV approval for special industrial applications.



Underwriters Laboratories, EX3985 for use in wet, fire extinguishing systems.



DVGW Code of Practice W270.

Other products available from Geberit

Geberit HDPE drainage systems

- Above and below ground soil waste and roof drainage systems
- HDPE suitable for chemical waste
- Suitable for both Industrial and Commercial applications
- Ideal for on/off site fabrication
- Offer fast reliable jointing
- Geberit Silent db20 - Acoustic drainage system

Geberit Installation systems for wall-hung sanitaryware, infra-red flushing controls and taps. Concealed flushing systems for WC's and urinals.

- Easy to install
- Hygienic
- Offer excellent water saving technology
- Maintenance friendly with easy access

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