

 **GEBERIT**

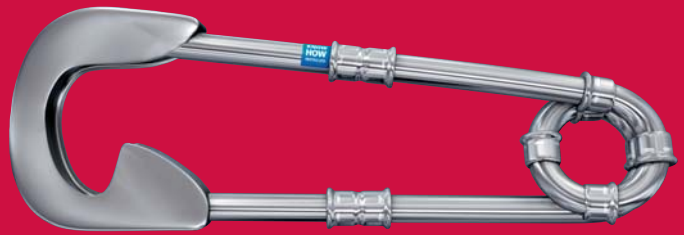
# Geberit Supply Systems Sprinkler Systems

October 2007



# Geberit Pressfitting Systems

With VdS, FM (Factory Mutual) and shipbuilding approvals the Mapress Pressfitting system offers an excellent solution for your sprinkler installations.



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 unpressed 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 high molybdenum content of Mapress Stainless Steel pipes ensures excellent durability.

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

## The Mapress system components:

### for fire prevention:

#### Mapress pressfittings:

Stainless Steel - BS316  
Carbon Steel - galvanised  
CuNiFe

#### Mapress pipe:

Stainless Steel - BS316  
Carbon Steel - outside galvanised  
Carbon Steel - inside and outside galvanised  
CuNiFe

#### Mapress press tools:

Pressing units - 12/14VDC battery,  
115V & 230V AC mains  
Jaws - 12mm - 35mm  
Collars - 42mm - 108mm

#### Mapress special fittings:

Stainless Steel valves



Mapress fittings and tools



Patented leak path seal rings (unpressed joints)

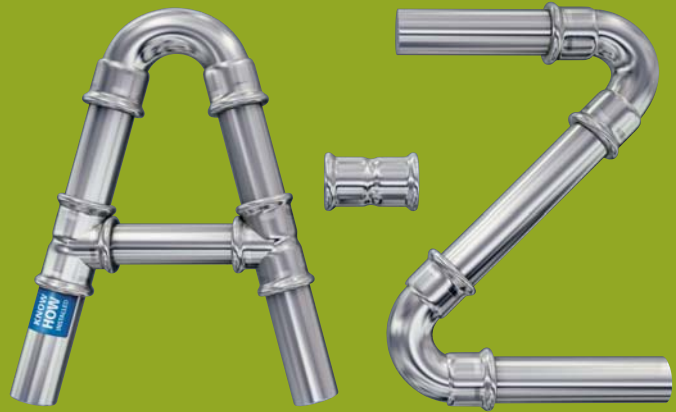


Mapress in/out galvanised Carbon Steel pipe and fittings



Mapress in use: simple and clean

# Advantages and Applications



## Advantages

- **Fast:** installation of pipework that will hasten follow-on construction installation processes
- **Easy handling:** Mapress pipes and fittings offer weight savings of up to 60% compared to traditional products
- **Reduced cost:** typical installation time reductions of over 35% compared to welded or threaded joints  
Additionally, Mapress joints require no consumable materials such as gases, solvents or sealing compounds, offering additional savings
- **Ideal for fabrication and modular design:** sections can be easily pre-assembled to save additional time during installation
- **High reliability:** Mapress Steel pipes and fittings use high-grade steels and surface treatments to eliminate rusting and microbiologically influenced corrosion, resulting in an excellent service life and minimising the chance of sediment blocking sprinkler heads
- **Permanent:** deformation during jointing of the pipe and fittings ensures joints do not loosen over the service life of the system
- **No fire hazard:** all joints are made cold with no naked flames required. Ideal for new, modernisation and repairs to existing systems
- **Suitable for use in clean environments:** no sealing compounds, lubricants or flames required - minimising disruption during fitting and maintenance in existing environments
- **Aesthetically:** no bulky threaded or clamped joints.

## Applications

- Mapress Stainless Steel pipes and fittings are suitable for wet and dry fire prevention systems, both spray and mist types

- Mapress Carbon Steel pipes are available in inside and outside-galvanised form to prevent corrosion of pipes that may not always be filled with water
- Factory fitted black CIIR butyl rubber seal rings are certified for use in wet sprinkler, foam and fire main systems
- Red FKM seal rings ensure compatibility with wet and dry fire prevention systems where the piping system may be exposed to freezing conditions
- For sprinkler applications aboard marine vessels, Mapress bulkhead penetration sleeves provide a means of safely welding the piping system to steel bulkheads without risk of puncturing the pipe.



Application	Material
Wet sprinkler	✓ ✓ ✓
Dry sprinkler	✓ ✓
Wet fire main	✓ ✓
Water spray/foam	✓ ✓

Mapress Stainless Steel ✓  
 Mapress Carbon Steel ✓  
 Mapress CuNiFe ✓



Approval body	Stainless 12-108mm	CuNiFe 15-108mm	Carbon
VdS	✓		✓
Factory Mutual	✓		✓
LPCB	Approval applied for		
American Bureau of Shipping	✓	✓	✓
Bureau Veritas	✓	✓	✓
Det Norske Veritas	✓	✓	✓
Germanischer Lloyd	✓	✓	✓
Lloyds Register	✓	✓	✓
Registro Italiano Navale	✓	✓	

# Training and Reference Projects

Geberit offers training courses for Mapress Pressfitting systems at the Geberit Academy facilities in Aylesford, Kent, alternatively, training can be provided at customer's premises or on site. The training courses are provided free of charge and can be tailored to any specific Geberit product or application.

## Reference Projects

### Industrial Sprinkler Systems

- Cognis, chemical plant - Dusseldorf
- Bayer AG, chemical plant - Wuppertal
- Ciba Speciality Chemicals, chemical plant - Lampertheim,
- Metsä Tissue, paper production - Raubach
- Mitsubishi Papers, paper production - Bielefeld
- BMW, automobile production - Leipzig
- Skoda, automobile production - Czech Republic
- Factory - Newport

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## Commercial Sprinkler Systems

- The Gate, office building - Dubai
- Green Community, hotel and apartments - Dubai
- Seestern, office building - Düsseldorf
- Skala, multi-story office building - Frankfurt
- Belgrade Airport - Serbia
- Apollo Theatre - Siegen
- Passau Mitte, shopping centre - Germany
- Hospital Deventer - Netherlands
- Retail Outlets - Aberdeen

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## Marine Sprinkler Systems

- Cunard - Queen Mary II
- Various cruise liners
- Various cross channel ferries
- Various private yachts
- Offshore drilling rigs / accommodation platforms
- Various military vessels including frigates, corvettes and support ships

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## 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 prefabrication
- 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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