

Application overview – Geberit Mapress Copper

Geberit Great Britain, Version: October 2018

| Application purposes | Operating temperature | Maximum operating pressure | Pipes | Fittings | | | | Seal rings | | | | Flat gaskets for screw connections | | | Flange gaskets | |
|--|-----------------------------|--|-----------------|----------|----------|-------|-----------------------------|-----------------|-----------------|-----------------|--------------|------------------------------------|-----------------|----------------------|-----------------------|-----------------------|
| | | | Copper | Copper | Gunmetal | Brass | Carbon steel, copper-plated | CIIR, black | EPDM, black | FKM, blue | HNBR, yellow | EPDM, black | FPM, green | Centellen® R WS 3825 | Centellen® HD WS 3822 | Centellen® HD WS 3822 |
| Liquid media | | | | | | | | | | | | | | | | |
| For cold and hot potable water | 0–100 °C | 16 bar / 1600 kPa ³⁾ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | | ✓ | | | | ✓ |
| For heating water | 0–100 °C | 16 bar / 1600 kPa | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ⁵⁾ | ✓ ⁵⁾ | | | ✓ ⁵⁾ | | | | ✓ |
| For cooling water without antifreeze agent | 0–100 °C | 16 bar / 1600 kPa | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | | | | ✓ |
| For cooling water with antifreeze agent | -30 – +120 °C | 16 bar / 1600 kPa | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ⁶⁾ | | | | | | ✓ | | ✓ |
| For remote network heating water ≤ 120 °C | 0–120 °C | 16 bar / 1600 kPa | ✓ | ✓ | ✓ | ✓ | | ✓ ⁵⁾ | ✓ | | | | ✓ | ✓ | | ✓ |
| For service water | 0–100 °C | 16 bar / 1600 kPa | ✓ | ✓ | ✓ | ✓ | | ✓ ⁷⁾ | ✓ ⁷⁾ | | | ✓ ⁷⁾ | | | | ✓ ⁷⁾ |
| For thermal media (solar) | -25 – +220 °C ²⁾ | 10 bar / 1000 kPa | ✓ | ✓ | ✓ | ✓ | | | | ✓ | | | ✓ | | | ✓ |
| For mineral oils | Upon request | Upon request | ✓ | ✓ | ✓ | ✓ | | | | ✓ | | | ✓ | | | ✓ |
| For fuels | Upon request | Upon request | ✓ | ✓ | ✓ | ✓ | | | | ✓ ⁷⁾ | | | ✓ ⁷⁾ | | | ✓ ⁷⁾ |
| Gaseous media | | | | | | | | | | | | | | | | |
| For compressed air (oil purity class 0–3) | 0–100 °C | 16 / 10 / 8 bar 1600 / 1000 / 800 kPa | ✓ ⁴⁾ | ✓ | ✓ | ✓ | | ✓ ⁸⁾ | ✓ ⁸⁾ | | | ✓ ⁸⁾ | | | | ✓ |
| For compressed air (oil purity class 0–X) | 0–100 °C | 16 / 10 / 8 bar 1600 / 1000 / 800 kPa | ✓ ⁴⁾ | ✓ | ✓ | ✓ | | | | ✓ ⁸⁾ | | | ✓ ⁸⁾ | | | ✓ |
| For negative pressure ¹⁾ | 0–40 °C | Abs. ≥ 0,2 bar / 20 kPa | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | | | | | | ✓ |
| For inert gases (e.g. nitrogen) | 0–100 °C | 16 / 10 / 8 bar 1600 / 1000 / 800 kPa | ✓ ⁴⁾ | ✓ | ✓ | ✓ | | ✓ | ✓ | | | ✓ | | | | ✓ |
| For natural gases | -20 – +70 °C | PN 5 / GT 1 | ✓ | ✓ | ✓ | ✓ | | | | | ✓ | | | | ✓ | ✓ |
| For liquefied gases | -20 – +70 °C | PN 5 / GT 1 | ✓ | ✓ | ✓ | ✓ | | | | | ✓ | | | | ✓ | ✓ |

✓ Application generally approved if the defined additional requirements are met in accordance with the footnotes

¹⁾ Usable negative pressure for Geberit piping systems:

The usable negative pressure is calculated on the basis of the air pressure at the place of installation minus the absolute pressure of 200 mbar.

Example: 980 mbar air pressure - 200 mbar absolute pressure = 780 mbar usable negative pressure in the piping system

²⁾ Service life with collector downtime: 200 h/a at 180 °C, 60 h/a at 200 °C, total of 500 h/service life at 220 °C

³⁾ 10 bar / 1000 kPa for MasterFix and MeplaFix

⁴⁾ 16 bar / 1600 kPa for d12–54, 10 bar / 1000 kPa for d66.7–88.9.8 bar / 800 kPa for d108

⁵⁾ Only use approved inhibitors

⁶⁾ Only use approved antifreeze agents

⁷⁾ After Geberit approval

⁸⁾ Oil purity class in accordance with ISO 8573-1:2010E; for details on moisture and particles, see technical information „Geberit Piping Systems for Compressed Air Installations“