

Application overview – Geberit Mapress Copper

Group, Version: April 2025

| Application purposes                                    | Operating temperature         | Maximum operating pressure      | Pipes  | Fittings               |                          |                       |                             | Seal rings      |             |                 |              | Flat gaskets for screw connections |                 |                          | Flange gaskets           |
|---------------------------------------------------------|-------------------------------|---------------------------------|--------|------------------------|--------------------------|-----------------------|-----------------------------|-----------------|-------------|-----------------|--------------|------------------------------------|-----------------|--------------------------|--------------------------|
|                                                         |                               |                                 | Copper | Copper white indicator | Gunmetal white indicator | Brass white indicator | Carbon steel, copper-plated | CIIR, black     | EPDM, black | FKM, blue       | HNBR, yellow | EPDM, black                        | FPM, green      | Fibre composite material | Fibre composite material |
| Liquid media                                            |                               |                                 |        |                        |                          |                       |                             |                 |             |                 |              |                                    |                 |                          |                          |
| For cold and hot potable water                          | 0–100 °C                      | 16 bar / 1600 kPa <sup>5)</sup> | ✓      | ✓                      | ✓                        |                       |                             | ✓               | ✓           |                 |              | ✓                                  |                 | ✓                        | ✓                        |
| For cooling and heating water without antifreeze agent  | 0–100 °C                      | 16 bar / 1600 kPa               | ✓      | ✓                      | ✓                        | ✓                     | ✓                           | ✓ <sup>4)</sup> | ✓           |                 |              | ✓                                  |                 | ✓                        | ✓                        |
| For cooling and heating water with antifreeze agent     | –30 – +120 °C                 | 16 bar / 1600 kPa               | ✓      | ✓                      | ✓                        | ✓                     | ✓                           | ✓ <sup>4)</sup> |             |                 |              |                                    |                 | ✓                        | ✓                        |
| For district heating water ≤ 120 °C                     | 0–120 °C                      | 16 bar / 1600 kPa               | ✓      | ✓                      | ✓                        | ✓                     |                             | ✓ <sup>4)</sup> | ✓           |                 |              |                                    | ✓               | ✓                        | ✓                        |
| For service water and process water                     | 0–100 °C                      | 16 bar / 1600 kPa               | 7)     | 7)                     | 7)                       | 7)                    |                             | 7)              | 7)          |                 |              | 7)                                 |                 | 7)                       | 7)                       |
| For thermal media (solar)                               | –25 – +220 °C <sup>3/4)</sup> | 10 bar / 1000 kPa               | ✓      | ✓                      | ✓                        | ✓                     |                             |                 |             | ✓               |              |                                    | ✓               | ✓                        | ✓                        |
| For mineral and lubricating oil                         | Upon request                  | Upon request                    | 7)     | 7)                     | 7)                       |                       |                             |                 |             | 7)              |              |                                    | 7)              | 7)                       | 7)                       |
| For motor fuels (e.g. diesel)                           | Upon request                  | Upon request                    | 7)     | 7)                     | 7)                       |                       |                             |                 |             | 7)              |              |                                    | 7)              | 7)                       | 7)                       |
| Gaseous media                                           |                               |                                 |        |                        |                          |                       |                             |                 |             |                 |              |                                    |                 |                          |                          |
| For compressed air (purity class oil 2-3) <sup>1)</sup> | 0–100 °C                      | 12 bar / 1200 kPa <sup>6)</sup> | ✓      | ✓                      | ✓                        |                       |                             | ✓ <sup>8)</sup> |             |                 |              | ✓ <sup>8)</sup>                    |                 | ✓                        | ✓                        |
| For compressed air (purity class oil 0-X) <sup>1)</sup> | 0–100 °C                      | 12 bar / 1200 kPa <sup>6)</sup> | ✓      | ✓                      | ✓                        |                       |                             |                 |             | ✓ <sup>8)</sup> |              |                                    | ✓ <sup>8)</sup> | ✓                        | ✓                        |
| For negative pressure <sup>2)</sup>                     | 0–100 °C                      | Abs. ≥ 0.2 bar / 20 kPa         | ✓      | ✓                      | ✓                        |                       |                             | ✓               | ✓           |                 |              |                                    |                 | ✓                        | ✓                        |
| For inert gases (e.g. nitrogen)                         | 0–100 °C                      | 12 bar / 1200 kPa <sup>6)</sup> | ✓      | ✓                      | ✓                        | ✓                     |                             | ✓               |             |                 |              | ✓                                  |                 | ✓                        | ✓                        |
| For natural gases                                       | –20 – +70 °C                  | MOP 5 / GT 1                    | ✓      | ✓                      | ✓                        | ✓                     |                             |                 |             |                 | ✓            |                                    |                 | ✓                        | ✓                        |
| For liquefied gases                                     | –20 – +70 °C                  | MOP 5 / GT 1                    | ✓      | ✓                      | ✓                        | ✓                     |                             |                 |             |                 | ✓            |                                    |                 | ✓                        | ✓                        |

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

<sup>1)</sup> Usable negative pressure for Geberit piping systems:

The usable negative pressure results from the air pressure at the installation site 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

<sup>2)</sup> 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

<sup>3)</sup> Lifetime with collector standstill: 200 h/a at 180 °C; 60 h/a at 200 °C; total 500 h/lifetime at 220 °C

<sup>4)</sup> Use of inhibitors, corrosion-protection agents, antifreeze agents only after approval by Geberit

<sup>5)</sup> 10 bar/1000 kPa for MasterFix and MeplaFix

<sup>6)</sup> Approved up to d54 mm

<sup>7)</sup> Following Geberit approval

<sup>8)</sup> 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"

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- The operating conditions specified in the relevant approvals, standards and technical regulations must be observed for each application. These may deviate from the aforementioned specifications