

## Application overview – Geberit Mapress Copper

Geberit South Africa , Version: January 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
<b>Liquid media</b>																
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)</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)
<b>Gaseous media</b>																
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"



- 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