

Application overview – Geberit Mapress Carbon Steel

Group, Version: April 2025

Application purposes	Operating temperature	Maximum operating pressure	Pipes			Fittings		Seal rings		Flat gaskets for screw connections			Flange gaskets
			Carbon steel, outside zinc-plated	Carbon steel, outside PP-jacketed	Carbon steel, inside and outside zinc-plated	C-steel red indicator	Brass white indicator	CIIR, black	FKM, blue	EPDM, black	FPM, green	Fibre composite material	Fibre composite material
Liquid media (closed systems)													
For cooling and heating water without antifreeze agent	0–100 °C	16 bar / 1600 kPa	✓ <sup>7)</sup>	✓ <sup>7)</sup>		✓ <sup>7)</sup>	✓ <sup>7)</sup>	✓ <sup>3)</sup>		✓ <sup>3)</sup>		✓	✓
For cooling and heating water with antifreeze agent	–30 – +120 °C <sup>3)</sup>	16 bar / 1600 kPa	✓ <sup>7)</sup>	✓ <sup>7)</sup>		✓ <sup>7)</sup>	✓ <sup>7)</sup>	✓ <sup>3)</sup>				✓	✓
For district heating water ≤ 120 °C	0–120 °C	16 bar / 1600 kPa	✓ <sup>7)</sup>			✓ <sup>7)</sup>	✓ <sup>7)</sup>	✓ <sup>3)</sup>			✓ <sup>3)</sup>	✓	✓
For district heating water ≤ 140 °C	0–140 °C	16 bar / 1600 kPa	✓ <sup>7)</sup>			✓ <sup>7)</sup>	✓ <sup>7)</sup>		✓ <sup>3)</sup>			✓	✓
For extinguishing water (wet)	0–100 °C	16 bar / 1600 kPa			✓	✓		✓		✓		✓	✓
For sprinklers (wet)	0–100 °C	16 / 12 / 10 bar			✓	✓		✓		✓		✓	✓
		1600 / 1200 / 1000 kPa <sup>5)</sup>											
For thermal media (solar)	–25 – +220 °C <sup>4)3)</sup>	10 bar / 1000 kPa	✓ <sup>7)</sup>			✓	✓		✓		✓	✓	✓
For mineral and lubricating oil	Upon request	Upon request	8)			8)			8)		8)	8)	8)
For motor fuels (e.g. diesel)	Upon request	Upon request	8)			8)			8)		8)	8)	8)
Gaseous media													
For compressed air (oil purity class 2–3) <sup>1)</sup>	0–100 °C	25 / 16 / 12 bar			✓	✓		✓		✓		✓	✓
		2500 / 1600 / 1200 kPa <sup>6)</sup>											
For compressed air (oil purity class 3–X) <sup>2)</sup>	0–100 °C	25 / 16 / 12 bar			✓	✓			✓		✓	✓	✓
		2500 / 1600 / 1200 kPa <sup>6)</sup>											

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

<sup>1)</sup> Purity class oil according to ISO 8573-1:2010E; for details on humidity and particles see Technical Information "Geberit piping systems for compressed air installations"

<sup>2)</sup> Oil purity class in accordance with ISO 8573-1:2010E. For details on moisture and particles, refer to the Technical Information on 'Geberit piping systems for compressed air installations'

<sup>3)</sup> Use of inhibitors, corrosion-protection agents, antifreeze agents only after approval by Geberit


<sup>4)</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>5)</sup> 16 bar / 1600 kPa for d22–54mm, 12 bar / 1200 kPa for d66.7–76.1mm, 10 bar / 1000 kPa for d88.9–108mm

<sup>6)</sup> 25 bar / 2500 kPa for d12–28mm, 16 bar / 1600 kPa for d35–54mm, 12 bar / 1200 kPa for d66.7–108mm

<sup>7)</sup> Closed systems only

<sup>8)</sup> Following Geberit approval

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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