

## Application overview – Geberit Mapress Carbon Steel

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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	
<b>Liquid media</b>														
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>6)</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)
<b>Gaseous media</b>														
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



- 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