

## Application overview – Geberit Mapress Therm

Geberit Singapore, Version: February 2025

Application purposes	Operating temperature	Maximum operating pressure	Pipes				Fittings		Seal rings		Flat gaskets for screw connections			Flange gaskets
			CrTi steel 1.4520 / 439	Stainless steel orange indicator	Gunmetal white indicator	Brass white indicator			CIIR, black	FKM, blue	EPDM, black	FPM, green	Fibre composite material	Fibre composite material
<b>Liquid media (closed systems)</b>														
For cooling and heating water without antifreeze agent	0–100 °C	16 bar / 1600 kPa	✓	✓	✓	✓		✓ <sup>2)</sup>		✓ <sup>2)</sup>		✓	✓	
For cooling and heating water with antifreeze agent	–30 – +120 °C <sup>2)</sup>	16 bar / 1600 kPa	✓	✓	✓	✓		✓ <sup>2)</sup>				✓	✓	
For district heating water ≤ 120 °C	0–120 °C	16 bar / 1600 kPa	✓	✓	✓	✓		✓ <sup>2)</sup>			✓	✓	✓	
For district heating water ≤ 140 °C	0–140 °C	16 bar / 1600 kPa	✓	✓	✓	✓			✓ <sup>2)</sup>			✓	✓	
For sprinklers (wet)	0–100 °C	16 / 10 bar <sup>4)</sup> 1600 / 1000 kPa	✓ <sup>5)</sup>	✓ <sup>5)</sup>				✓ <sup>5)</sup>		✓ <sup>5)</sup>		✓ <sup>5)</sup>	✓ <sup>5)</sup>	
For extinguishing water (wet)	0–100 °C	16 bar / 1600 kPa	✓ <sup>5)</sup>	✓ <sup>5)</sup>				✓ <sup>5)</sup>		✓ <sup>5)</sup>		✓ <sup>5)</sup>	✓ <sup>5)</sup>	
For thermal media (solar)	–25 – +220 °C <sup>3,2)</sup>	16 bar / 1600 kPa	✓	✓	✓				✓		✓	✓	✓	
<b>Gaseous media</b>														
Für Druckluft (Reinheitsklasse Öl 1–3)	0–100 °C	25 / 16 / 12 bar 2500 / 1600 / 1200 kPa	✓ <sup>6)</sup>	✓				✓		✓		✓	✓	
Für Druckluft (Reinheitsklasse Öl 1–X)	0–100 °C	25 / 16 / 12 bar 2500 / 1600 / 1200 kPa	✓ <sup>6)</sup>	✓					✓		✓	✓	✓	
For negative pressure <sup>1)</sup>	0–100 °C	Abs. ≥ 0.2 bar / 20 kPa	✓	✓				✓				✓	✓	
For inert gases (e.g. nitrogen)	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> 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>2)</sup> Use of inhibitors, corrosion-protection agents, antifreeze agents only after approval by Geberit

<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> 16 bar / 1600 kPa for d22–76.1 mm, 10 bar / 1000 kPa for d88.9–108 mm

<sup>5)</sup> d76.1–108 mm mit Rohren aus CrNiMo-Stahl 1.4401

<sup>6)</sup> 25 bar / 2500 kPa for d12–42 mm (d35–42mm only with pressing collars), 16 bar / 1600 kPa for d54–76.1 mm, 12 bar / 1200 kPa for d88.9–108 mm



- 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