

Application overview – Geberit Mapress Carbon Steel

Geberit Great Britain, Version: January 2022

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	Carbon steel, outside zinc-plated	Brass	CIIR, black	FKM, blue	EPDM, black	FPM, green	Centellen® R WS 3825	Centellen® HD WS 3822
Liquid media														
For heating water	0–100 °C	16 bar/1600 kPa	✓ ⁴⁾	✓ ⁴⁾			✓ ⁴⁾	✓ ⁴⁾	✓ ⁷⁾		✓ ⁷⁾			✓
For cooling water without antifreeze agent	0–100 °C	16 bar/1600 kPa	✓ ⁴⁾	✓ ⁴⁾			✓ ⁴⁾	✓ ⁴⁾	✓		✓			✓
For cooling water with antifreeze agent	-30 – +120 °C	16 bar/1600 kPa	✓ ⁴⁾	✓ ⁴⁾			✓ ⁴⁾	✓ ⁴⁾	✓ ⁸⁾				✓	✓
For remote network heating water ≤ 120 °C	0–120 °C	16 bar/1600 kPa	✓ ⁴⁾				✓ ⁴⁾	✓ ⁴⁾	✓ ⁷⁾			✓ ⁷⁾	✓	✓
For remote network heating water ≤ 140 °C	0–140 °C	16 bar/1600 kPa	✓ ⁴⁾				✓ ⁴⁾	✓ ⁴⁾		✓ ⁷⁾			✓	✓
For extinguishing water (wet)	0–70 °C	16 bar/1600 kPa				✓	✓		✓		✓			✓
For thermal media (solar)	-25 – +220 °C ³⁾	10 bar /1000 kPa	✓ ⁴⁾				✓	✓		✓		✓		✓
For mineral and lubricating oil	Upon request	Upon request	✓				✓	✓		✓		✓		✓
For motor fuels (e.g. diesel)	Upon request	Upon request	✓				✓	✓		5)		5)		5)
Gaseous media														
For compressed air (oil purity class 3) ¹⁾	0–100 °C	25 / 16 / 12 bar ⁴⁾ 2500 / 1600 / 1200 kPa	✓	✓		✓	✓	✓	✓		✓			✓
For compressed air (oil purity class 3–X) ²⁾	0–100 °C	25 / 16 / 12 bar ⁴⁾ 2500 / 1600 / 1200 kPa	✓	✓		✓	✓	✓		✓		✓		✓
For inert gases (e.g. nitrogen)	Upon request	Upon request	5)				5)	5)	5)		5)			5)

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

¹⁾ 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"

²⁾ 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'

³⁾ Service life with collector downtime: 200 h/a at 180 °C, 60 h/a at 200 °C, total of 500 h/service life at 220 °C

⁴⁾ Closed systems only

⁵⁾ Following Geberit approval

⁷⁾ Only use approved inhibitors according to TI "Corrosion-protection and antifreeze agents"

⁸⁾ Only use approved antifreeze agents



- 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.