

Application overview – Geberit Mapress CuNiFe

Geberit South Africa , Version: January 2025

Application purposes	Operating temperature	Maximum operating pressure	Pipes	Fittings	Seal rings		Flat gaskets for screw connections			Flange gaskets
			CuNiFe	CuNiFe black indicator	CIIR, black	FKM, blue	EPDM, black	FPM, green	Fibre composite material	Fibre composite material
Liquid media										
For cooling and heating water without antifreeze agent	0–100 °C	13 bar / 1300 kPa	✓	✓	✓			✓		✓
For cooling and heating water with antifreeze agent	-30 – +120 °C	13 bar / 1300 kPa	✓	✓	✓ ⁴⁾					✓
For service water and process water	0–100 °C	13 bar / 1300 kPa	3)	3)	3)			3)		3)
For grey and black water with pH value > 6.0	0–100 °C	13 bar / 1300 kPa	✓	✓	✓			✓		✓
For seawater	0–100 °C	13 bar / 1300 kPa	✓	✓	✓			✓		✓
For extinguishing water (wet)	0–70 °C	13 bar / 1300 kPa	✓	✓	✓			✓		✓
For sprinklers (wet)	0–70 °C	13 bar / 1300 kPa	✓	✓	✓			✓		✓
For mineral and lubricating oil	Upon request	Upon request	3)	3)			3)		3)	3)
For motor fuels (e.g. diesel)	Upon request	Upon request	3)	3)			3)		3)	3)
Gaseous media										
For compressed air (purity class oil 0–3) ¹⁾	0–100 °C	10 bar / 1000 kPa	✓	✓	✓					✓
For compressed air (oil purity class 0–X) ¹⁾	0–100 °C	10 bar / 1000 kPa	✓	✓		✓		✓		✓
For negative pressure ²⁾	0–40 °C	Abs. ≥ 0.2 bar / 20 kPa	✓	✓	✓			✓		✓
For inert gases (e.g. nitrogen)	Upon request	Upon request	3)	3)	3)			3)		3)

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

¹⁾ 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"

²⁾ 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

³⁾ Following Geberit approval

⁴⁾ 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