

Application overview – Geberit Mepla

Geberit Great Britain, Version: October 2018

Application purposes	Operating temperature	Maximum operating pressure	Pipes		Fittings				O-rings	Flat gaskets for screw connections	Flange gaskets
			Mepla, ML	MeplaTherm, ML, NPW	PVDF	Gunmetal	Brass	Stainless steel	EPDM, black	Centellen® R WS 3825	Centellen® HD WS 3822
Liquid media											
For cold and hot potable water	0–70 °C ²⁾	10 bar / 1000 kPa	✓		✓	✓	✓	✓	✓	✓	✓
For cold potable water	0–20 °C	16 bar / 1600 kPa ⁵⁾	✓		✓	✓	✓	✓	✓	✓	✓
For heating water	0–80 °C ³⁾	10 bar / 1000 kPa	✓	✓	✓	✓	✓	✓	✓ ⁸⁾	✓	✓
For cooling water without antifreeze agent	0–70 °C	10 bar / 1000 kPa	✓	✓	✓	✓	✓	✓	✓	✓	✓
For cooling water with antifreeze agent	-10 – +40 °C ⁴⁾	10 bar / 1000 kPa	✓	✓	✓	✓	✓	✓	✓ ⁹⁾	✓	✓
For service water	0–40 °C	10 bar / 1000 kPa	✓	✓	✓	✓	✓	✓	✓ ⁷⁾	✓	✓
For treated water	0–40 °C	10 bar / 1000 kPa	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾
For rainwater with a pH value of > 6.0	0–40 °C	10 bar / 1000 kPa	✓	✓	✓	✓	✓	✓	✓	✓	✓
For seawater	0–70 °C	10 bar / 1000 kPa	✓	✓	✓	✓	✓	✓	✓	✓	✓
For extinguishing water (wet)	0–70 °C	10 bar / 1000 kPa	✓	✓	✓	✓	✓	✓	✓	✓	✓
For extinguishing water (wet/dry, dry)	0–70 °C	10 bar / 1000 kPa	✓	✓	✓	✓	✓	✓	✓	✓	✓
For chemicals and technical liquids	Upon request	Upon request	✓ ⁷⁾	✓ ⁷⁾	✓ ⁷⁾	✓ ⁷⁾	✓ ⁷⁾	✓ ⁷⁾	✓ ⁷⁾	✓ ⁷⁾	✓ ⁷⁾
Gaseous media											
For compressed air (oil purity class 0–3)	0–70 °C	10 bar / 1000 kPa	✓	✓	✓	✓	✓	✓	✓ ¹⁰⁾	✓	✓
For negative pressure ¹⁾	0–40 °C	Abs. ≥ 0,2 bar / 20 kPa	✓	✓	✓	✓	✓	✓	✓	✓	✓
For inert gases (e.g. nitrogen)	0–40 °C	10 bar / 1000 kPa	✓	✓	✓	✓	✓	✓	✓	✓	✓

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

¹⁾ 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

²⁾ Malfunction temperature in accordance with EN 806-2: Tmal = 95 °C, total 100 h over the course of the service life

³⁾ Malfunction temperature in accordance with ISO 10508:2006: Tmal = 100 °C, total 100 h over the course of the service life

⁴⁾ Higher temperatures after Geberit approval only

⁵⁾ Exclusive MasterFix and MeplaFix

⁶⁾ Application range according to TI „Treated water“

⁷⁾ After Geberit approval

⁸⁾ Only use approved inhibitors

⁹⁾ Only use approved antifreeze agents

¹⁰⁾ 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“