Application overview – Geberit Mepla

Geberit India, Version: February 2024

Application purposes	Operating temperature	Maximum operating pressure	Pipes			Fittings				O-rings	Flat gaskets for screw connections	Flange gaskets
			Mepla, multilayer pipe	MeplaTherm ML NPW		Plastic	Gunmetal	Brass	Stainless steel	EPDM, black	Fibre composite material	Fibre composite material
Liquid media												
For cold and hot potable water	0–70 °C[3]	10 bar / 1000 kPa	✓			✓	✓	✓		✓	✓	✓
For cold potable water	0–20 °C	16 bar / 1600 kPa[6]	✓			✓	✓	✓		✓	✓	✓
For cooling and heating water without antifreeze agent	0–80 °C[4]	10 bar / 1000 kPa	✓	✓		✓	✓	✓	✓	✓	✓	✓
For cooling and heating water with antifreeze agent	-10 – +40 °C[5]	10 bar / 1000 kPa	✓	✓		✓	✓	✓	✓	✓	✓	✓
For service water and process water	0–70 °C	10 bar / 1000 kPa	7)	7)		7)	7)		7)	7)	7)	7)
For treated water[1]	0–70 °C	10 bar / 1000 kPa	✓8)	✓8)		✓8)	✓8)		✓8)	✓8)	✓8)	✓8)
For rainwater with a pH value of > 6.0	0–70 °C	10 bar / 1000 kPa	✓	✓		✓	✓9)	✓9)	✓	✓	✓	✓
For seawater	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 [2]	0–70 °C	Abs. ≥ 0.2 bar / 20 kPa	✓	✓		✓	✓	✓	✓	✓	✓	✓

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

[1] Range of application according to Technical Information (TI) "Treated waters"
[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] Malfunction temperature in accordance with EN 806-2: Tmal = 95 °C, total 100 h over the course of the service life
[4] Malfunction temperature in accordance with ISO 10508:2006: Tmal = 100 °C, total 100 h over the course of the service life
[5] Higher temperatures after Geberit approval only
[6] 10 bar/1000 kPa for MasterFix and MeplaFix
[7] Following Geberit approval
[8] Application range according to TI "Treated Waters"
[9] pH value ≥ 7.0 permissible in connection with brass
[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"

- 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