

## Application overview – Geberit Mepla

Geberit India, Version: February 2020

Application purposes	Operating temperature	Maximum operating pressure	Pipes		Fittings				O-rings	Flat gaskets for screw connections	Flange gaskets
			Mepla, multilayer pipe	MeplaTherm, multilayer pipe, non-potable water	PVDF	Gunmetal	Brass	Stainless steel	EPDM, black	Centellen® R WS 3825	Centellen® HD WS 3822
<b>Liquid media</b>											
For cold and hot potable water	0–70 °C <sup>2)</sup>		✓		✓	✓	✓		✓	✓	✓
For cold potable water	0–20 °C	16 bar/1600 kPa <sup>5)</sup>	✓		✓	✓	✓		✓	✓	✓
For heating water	0–80 °C <sup>3)</sup>		✓	✓	✓	✓	✓	✓	✓ <sup>8)</sup>	✓	✓
For cooling water without antifreeze agent	0–70 °C		✓	✓	✓	✓	✓	✓	✓	✓	✓
For cooling water with antifreeze agent	-10 – +70 °C <sup>4)</sup>		✓	✓	✓	✓	✓	✓	✓ <sup>9)</sup>	✓	✓
For service water	0–70 °C		✓	✓	✓	✓		✓	✓ <sup>7)</sup>	✓	✓
For treated water	0–70 °C		✓ <sup>6)</sup>	✓ <sup>6)</sup>	✓ <sup>6)</sup>	✓ <sup>6)</sup>		✓ <sup>6)</sup>	✓ <sup>6)</sup>	✓ <sup>6)</sup>	✓ <sup>6)</sup>
For rainwater with a pH value of > 6.0	0–70 °C		✓	✓	✓	✓		✓	✓	✓	✓
For seawater	0–70 °C		✓	✓	✓	✓		✓	✓	✓	✓
For extinguishing water (wet)	0–70 °C		✓	✓	✓	✓	✓	✓	✓	✓	✓
For extinguishing water (wet/dry, dry)	0–70 °C		✓	✓	✓	✓	✓	✓	✓	✓	✓
For chemicals and technical liquids	Upon request	Upon request	✓ <sup>7)</sup>	✓ <sup>7)</sup>	✓ <sup>7)</sup>	✓ <sup>7)</sup>	✓ <sup>7)</sup>	✓ <sup>7)</sup>	✓ <sup>7)</sup>	✓ <sup>7)</sup>	✓ <sup>7)</sup>
<b>Gaseous media</b>											
For compressed air (oil purity class 0–3)	0–70 °C		✓	✓	✓	✓	✓	✓	✓ <sup>10)</sup>	✓	✓
For negative pressure <sup>1)</sup>	0–70 °C		✓	✓	✓	✓	✓	✓	✓	✓	✓
For inert gases (e.g. nitrogen)	Upon request	Upon request	✓ <sup>7)</sup>	✓ <sup>7)</sup>	✓ <sup>7)</sup>	✓ <sup>7)</sup>	✓ <sup>7)</sup>	✓ <sup>7)</sup>	✓ <sup>7)</sup>	✓ <sup>7)</sup>	✓ <sup>7)</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> Malfunction temperature in accordance with EN 806-2: Tmal = 95 °C, total 100 h over the course of the service life

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

<sup>4)</sup> Higher temperatures after Geberit approval only

<sup>5)</sup> Exclusive MasterFix and MeplaFix

<sup>6)</sup> Application range according to TI „Treated water“

<sup>7)</sup> After Geberit approval

<sup>8)</sup> Only use approved inhibitors

<sup>9)</sup> Only use approved antifreeze agents

<sup>10)</sup> 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“