Application overview – Geberit Mapress Stainless Steel for liquid media

Geberit South Africa , Version: December 2023

Application purposes	Operating temperature	Maximum operating pressure	Pipes				Fittings		Seal rings				Flat gaskets for screw connections			Flange gaskets
			CrNiMo steel 1.4401 / 316	CrMoTi steel 1.4521 / 444	CrNi steel 1.4301 / 304		Stainless steel blue indicator	Gunmetal white indicator	CIIR, black	FKM, blue	FKM, white	FPM, red	EPDM, black	FPM, green	Fibre composite material	Fibre composite material
For cold and hot potable water	0–100 °C	16 bar / 1600 kPa[3]	✓	✓			✓	✓	✓				✓		✓	✓
For cooling and heating water without antifreeze agent	0–100 °C	16 bar / 1600 kPa	✓	✓	✓		✓	✓	✓[1]				✓[1]		✓	✓
For cooling and heating water with antifreeze agent	–30 – +120 °C[1]	16 bar / 1600 kPa	✓	✓	✓		✓	✓	✓[1]						✓[7]	✓
For district heating water ≤ 120 °C	0–120 °C	16 bar / 1600 kPa	✓	✓	✓		✓	✓	✓[1]					✓	✓[7]	✓
For district heating water ≤ 140 °C	0–140 °C	16 bar / 1600 kPa	✓	✓	✓		✓	✓		✓[1]					✓[7]	✓
For saturated steam ≤ 120 °C	0–120 °C	2 bar / 200 kPa	✓				✓		✓[1]						✓[7]	✓
For saturated steam ≤ 155 °C	0–155 °C	4.5 bar / 450 kPa	✓				✓				✓[1]				✓[7]	✓
For service water and process water	0–100 °C	16 bar / 1600 kPa	5)	5)			5)		5)				5)		5)	5)
For treated water	0–100 °C	16 bar / 1600 kPa	✓6)	✓6)			✓6)		✓6)				✓6)		✓6)	✓6)
For rainwater with a pH value of > 6.0	0–100 °C	16 bar / 1600 kPa	✓	✓			✓		✓				✓		✓	✓
For grey and black water with pH value > 6.0	0–100 °C	16 bar / 1600 kPa	✓	✓			✓		✓				✓		✓	✓
For extinguishing water (wet)	0–100 °C	16 bar / 1600 kPa	✓				✓		✓				✓		✓	✓
For extinguishing water (wet/dry, dry)	0–100 °C	16 bar / 1600 kPa	✓				✓			✓		✓		✓	✓	✓
For sprinklers (wet)	0–100 °C	16 / 10 bar[4] 1600 / 1000 kPa	✓				✓		✓				✓		✓	✓
For sprinklers (wet/dry, dry)	0–100 °C	16 / 10 bar[4] 1600 / 1000 kPa	✓				✓			✓		✓		✓	✓	✓
For thermal media (solar)	–25 – +220 °C[2][1]	16 bar / 1600 kPa	✓	✓	✓		✓	✓		✓				✓	✓[7]	✓
For mineral and lubricating oil	Upon request	Upon request	5)				5)			5)				5)	5)	5)
For motor fuels (e.g. diesel)	Upon request	Upon request	5)				5)			5)				5)	5)	5)
For chemicals and technical liquids	Upon request	Upon request	5)				5)		5)	5)			5)	5)	5)	5)

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

[1] Use of inhibitors, corrosion-protection agents, antifreeze agents only after approval by Geberit
[2] Lifetime with collector standstill: 200 h/a at 180 °C; 60 h/a at 200 °C; total 500 h/lifetime at 220 °C
[3] 10 bar/1000 kPa for MasterFix and MeplaFix
[4] 16 bar / 1600 kPa for d22–76.1 mm, 10 bar / 1000 kPa for d88.9–108 mm
[5] Following Geberit approval
[6] Application range according to TI "Treated Waters"
[7] Only use fittings with union nuts made of CrNi steel

- 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