

Application overview – Geberit Mapress Stainless Steel for liquid media

Geberit India, Version: February 2020

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	CrNiMo steel 1.4401 / 316	Gunmetal	CIIR, black	FKM, blue	FKM, white	FPM, red	EPDM, black	FPM, green	Centellen® R WS 3825	Centellen® HD WS 3822
For cold and hot potable water	0–100 °C	16 bar/1600 kPa ³⁾	✓	✓		✓	✓	✓				✓			✓
For heating water	0–100 °C		✓	✓	✓	✓	✓	✓ ⁷⁾				✓ ⁷⁾			✓
For cooling water without antifreeze agent	0–100 °C		✓	✓	✓	✓	✓	✓				✓			✓
For cooling water with antifreeze agent	-30 – +120 °C		✓	✓	✓	✓	✓	✓ ²⁾						✓ ⁸⁾	✓
For remote network heating water ≤ 120 °C	0–120 °C		✓	✓	✓	✓	✓	✓ ⁷⁾					✓	✓ ⁸⁾	✓
For remote network heating water ≤ 140 °C	0–140 °C		✓	✓	✓	✓	✓		✓ ⁷⁾					✓ ⁸⁾	✓
For saturated steam ≤ 120 °C	0–120 °C		✓			✓		✓ ⁷⁾						✓ ⁸⁾	✓
For saturated steam ≤ 155 °C	5–155 °C		✓			✓				✓ ⁷⁾				✓ ⁸⁾	✓
For service water	0–100 °C		✓	✓		✓	✓	✓ ⁶⁾				✓ ⁶⁾			✓ ⁶⁾
For treated water	0–100 °C		✓ ⁴⁾	✓ ⁴⁾	✓ ⁴⁾	✓ ⁴⁾	✓	✓ ⁴⁾				✓ ⁴⁾			✓ ⁴⁾
For rainwater with a pH value of > 6.0	0–100 °C		✓	✓		✓	✓	✓				✓			✓
For grey and black water with pH value > 6.0	0–100 °C		✓	✓		✓		✓				✓			✓
For extinguishing water (wet)	0–70 °C		✓			✓	✓	✓				✓			✓
For extinguishing water (wet/dry, dry)	0–70 °C		✓			✓					✓		✓		✓
For sprinklers (wet)	0–70 °C		✓ ⁵⁾			✓		✓				✓			✓
For sprinklers (wet/dry, dry)	0–70 °C		✓ ⁵⁾			✓					✓		✓		✓
For thermal media (solar)	-25 – +220 °C ^{1), 2)}		✓	✓	✓	✓	✓		✓				✓	✓ ⁸⁾	✓
For mineral and lubricating oil	Upon request	Upon request	✓			✓	✓		✓				✓	✓ ⁸⁾	✓
For motor fuels (e.g. diesel)	Upon request	Upon request	✓			✓	✓		✓ ⁶⁾				✓ ⁶⁾	✓ ⁸⁾	✓ ⁶⁾
For chemicals and technical liquids	Upon request	Upon request	✓ ⁶⁾			✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾		✓ ⁶⁾	✓ ⁶⁾	✓ ^{6) 8)}	✓ ⁶⁾

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

¹⁾ Service life with collector downtime: 200 h/a at 180 °C; 60 h/a at 200 °C; total of 500 h/service life at 220 °C

²⁾ Only use approved antifreeze agents according to TI „Corrosion-protection and antifreeze agents“

³⁾ 10 bar/1000 kPa for MasterFix and MeplaFix

⁴⁾ Application range according to TI „Treated water“

⁵⁾ 16 bar/1600 kPa for d22–76.1 mm, 10 bar/1000 kPa for d88.9–108 mm

⁶⁾ After Geberit approval

⁷⁾ Only use approved inhibitors according to TI „Corrosion-protection and antifreeze agents“

⁸⁾ Only use fittings with union nuts made of CrNi steel