

Application overview – Geberit Mapress Stainless Steel for liquid media

Geberit Great Britain, Version: October 2018

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 ²⁾	✓	✓		✓	✓	✓				✓			✓	
For heating water	0–100 °C	16 bar / 1600 kPa	✓	✓	✓	✓	✓	✓ ⁶⁾				✓ ⁶⁾			✓	
For cooling water without antifreeze agent	0–100 °C	16 bar / 1600 kPa	✓	✓	✓	✓	✓	✓				✓			✓	
For cooling water with antifreeze agent	-30 – +120 °C	16 bar / 1600 kPa	✓	✓	✓	✓	✓	✓ ⁷⁾						✓ ⁸⁾	✓	
For remote network heating water ≤ 120 °C	0–120 °C	16 bar / 1600 kPa	✓	✓	✓	✓	✓	✓ ⁶⁾					✓	✓ ⁸⁾	✓	
For remote network heating water ≤ 140 °C	0–140 °C	16 bar / 1600 kPa	✓	✓	✓	✓			✓ ⁶⁾					✓ ⁸⁾	✓	
For saturated steam ≤ 120 °C	0–120 °C	2 bar / 200 kPa	✓	✓	✓	✓		✓ ⁶⁾						✓ ⁸⁾	✓	
For saturated steam ≤ 155 °C	5–155 °C	5 bar / 500 kPa	✓			✓				✓ ⁶⁾				✓ ⁸⁾	✓	
For service water	0–100 °C	16 bar / 1600 kPa	✓	✓		✓	✓	✓ ⁵⁾				✓ ⁵⁾			✓ ⁵⁾	
For treated water	0–100 °C	16 bar / 1600 kPa	✓ ³⁾	✓ ³⁾		✓ ³⁾		✓ ³⁾				✓ ³⁾			✓ ³⁾	
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)	0–70 °C	16 bar / 1600 kPa	✓			✓	✓	✓				✓			✓	
For extinguishing water (wet/dry, dry)	0–70 °C	16 bar / 1600 kPa	✓			✓					✓		✓		✓	
For sprinklers (wet)	0–70 °C	16 / 10 bar 1600 / 1000 kPa	✓ ⁴⁾			✓		✓				✓			✓	
For sprinklers (wet/dry, dry)	0–70 °C	16 / 10 bar 1600 / 1000 kPa	✓ ⁴⁾			✓					✓		✓		✓	
For thermal media (solar)	-25 – +220 °C ¹⁾	16 bar / 1600 kPa	✓	✓	✓	✓	✓			✓			✓		✓	
For mineral oils	Upon request	Upon request	✓	✓	✓	✓	✓			✓			✓		✓	
For fuels	Upon request	Upon request	✓	✓	✓	✓	✓			✓ ⁵⁾			✓ ⁵⁾		✓ ⁵⁾	
For chemicals and technical liquids	Upon request	Upon request	✓ ⁵⁾	✓ ⁵⁾	✓ ⁵⁾	✓ ⁵⁾	✓ ⁵⁾	✓ ⁵⁾	✓ ⁵⁾	✓ ⁵⁾		✓ ⁵⁾	✓ ⁵⁾	✓ ^{5) 8)}	✓ ⁵⁾	

✓ 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⁾ 10 bar / 1000 kPa for MasterFix and MeplaFix

³⁾ Application range according to TI „Treated water“

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

⁵⁾ After Geberit approval

⁶⁾ Only use approved inhibitors

⁷⁾ Only use approved antifreeze agents

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