

Application overview – Geberit Mapress Stainless Steel for gaseous 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	HNBR, yellow	EPDM, black	FPM, green	Centellen® HD WS 3822	Centellen® HD WS 3822
For compressed air (oil purity class 0–3)	0–100 °C	25 / 16 / 12 bar 2500 / 1600 / 1200 kPa	✓ ²⁾	✓ ⁴⁾	✓ ⁵⁾	✓	✓	✓ ⁶⁾			✓ ⁶⁾			✓
For compressed air (oil purity class 0–X)	0–100 °C	25 / 16 / 12 bar 2500 / 1600 / 1200 kPa	✓ ²⁾	✓ ⁴⁾	✓ ⁵⁾	✓	✓		✓ ⁶⁾			✓ ⁶⁾		✓
For negative pressure ¹⁾	0–40 °C	Abs. ≥ 0,2 bar / 20 kPa	✓	✓	✓	✓	✓	✓						✓
For inert gases (e.g. nitrogen)	0–100 °C	25 / 16 / 12 bar 2500 / 1600 / 1200 kPa	✓ ²⁾	✓ ⁴⁾	✓ ⁵⁾	✓	✓	✓			✓			✓
For industrial gases (e.g. acetylene, shielding gases)	Upon request	Upon request	✓			✓		✓ ³⁾	✓ ³⁾					✓ ³⁾
For natural gases	-20 – +70 °C	PN 5 / GT 5	✓			✓				✓			✓	✓
For liquefied gases	-20 – +70 °C	PN 5 / GT 5	✓			✓				✓			✓	✓
For biogases	-20 – +70 °C	PN 5 / GT 5	✓ ³⁾			✓ ³⁾				✓ ³⁾			✓ ³⁾	✓ ³⁾

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

¹⁾ 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

²⁾ 25 bar / 2500 kPa for d12–54, 16 bar / 1600 kPa for d76.1, 12 bar / 1200 kPa for d88.9–108

³⁾ After Geberit approval

⁴⁾ 16 bar / 1600 kPa for d15–54

⁵⁾ 16 bar / 1600 kPa for d15–76.1, 10 bar / 1000 kPa for d88.9–108

⁶⁾ 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“