

## Application overview – Geberit Mapress Stainless Steel for gaseous media

Geberit Great Britain, 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	CrTi steel 1.4520 / 439		Stainless steel blue indicator	CIIR, black	FKM, blue	HNBR, yellow	EPDM, black	FPM, green	Fibre composite material	Fibre composite material
For compressed air (oil purity class 0–3)	0–100 °C	25/16/12 bar 2500/1600/1200 kPa	✓ <sup>3)</sup>	✓ <sup>3)</sup>	✓ <sup>3)</sup>	✓ <sup>3)</sup>	✓	✓ <sup>5)</sup>			✓ <sup>5)</sup>		✓	✓	
For compressed air (oil purity class 0–X)	0–100 °C	25/16/12 bar 2500/1600/1200 kPa	✓ <sup>3)</sup>	✓ <sup>3)</sup>	✓ <sup>3)</sup>	✓ <sup>3)</sup>	✓		✓ <sup>5)</sup>			✓ <sup>5)</sup>	✓	✓	
For negative pressure <sup>1)</sup>	0–100 °C	Abs. ≥ 0,2 bar/20 kPa	✓	4)	4)	4)	✓	✓					✓	✓	
For inert gases (e.g. nitrogen)	0–100 °C	25/16/12 bar 2500/1600/1200 kPa	✓ <sup>3)</sup>	✓ <sup>3)</sup>	✓ <sup>3)</sup>	✓ <sup>3)</sup>	✓	✓			✓		✓	✓	
For industrial gases (e.g. acetylene, shielding gases)	Upon request	Upon request	4)				4)	4)					4)	4)	
For natural gases	-20 – +70 °C	MOP 5/malleable cast iron 5 <sup>2)</sup>	✓				✓			✓			✓	✓	
For liquefied gases	-20 – +70 °C	MOP 5/malleable cast iron 5 <sup>2)</sup>	✓				✓			✓			✓	✓	
For biogases	Upon request	Upon request	4)				4)				4)		4)	4)	

✓ 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> Malleable cast iron 0.1 if thread > 2"

<sup>3)</sup> 25 bar / 2500 kPa for d12–54 mm (d35–54mm only with pressing collars), 16 bar / 1600 kPa for d76.1 mm, 12 bar / 1200 kPa für d88.9–108 mm

<sup>4)</sup> Following Geberit approval

<sup>5)</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"



- 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.