Application overview – Geberit Mapress Stainless Steel for gaseous media

Group, Version: April 2025

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	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	✓[3]	✓[3]	✓	✓[5]			✓[5]		✓	✓
For compressed air (oil purity class 0–X)	0–100 °C	25 / 16 / 12 bar 2500 / 1600 / 1200 kPa	✓[3]	✓[3]	✓		✓[5]			✓[5]	✓	✓
For negative pressure [1]	0–100 °C	Abs. ≥ 0.2 bar / 20 kPa	✓	[4]	✓	✓					✓	✓
For inert gases (e.g. nitrogen)	0–100 °C	25 / 16 / 12 bar 2500 / 1600 / 1200 kPa	✓[3]	✓[3]	✓	✓			✓		✓	✓
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 [2]	✓		✓			✓			✓	✓
For liquefied gases	-20 – +70 °C	MOP 5/malleable cast iron 5 [2]	✓		✓			✓			✓	✓
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

[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] Malleable cast iron 0.1 if thread > 2"
[3] 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
[4] Following Geberit approval
[5] 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