

## Application overview – Geberit Mapress Stainless Steel for gaseous 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	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		✓ <sup>3)</sup>	✓ <sup>5)</sup>	✓ <sup>6)</sup>		✓	✓	✓ <sup>7)</sup>			✓ <sup>7)</sup>			✓
For compressed air (oil purity class 0–4)	0–100 °C		✓ <sup>3)</sup>	✓ <sup>5)</sup>	✓ <sup>6)</sup>		✓	✓		✓ <sup>7)</sup>			✓ <sup>7)</sup>		✓
For negative pressure <sup>1)</sup>	0–100 °C		✓	✓	✓		✓	✓	✓						✓
For inert gases (e.g. nitrogen)	0–100 °C		✓ <sup>3)</sup>	✓ <sup>5)</sup>	✓ <sup>6)</sup>		✓	✓	✓			✓			✓
For industrial gases (e.g. acetylene, shielding gases)	Upon request	Upon request	✓				✓		✓ <sup>4)</sup>						✓ <sup>4)</sup>
For natural gases	-20 – +70 °C	MOP 5/malleable cast iron <sup>5 2)</sup>	✓				✓				✓			✓	✓
For liquefied gases	-20 – +70 °C	MOP 5/malleable cast iron <sup>5 2)</sup>	✓				✓				✓			✓	✓
For biogases	Upon request	Upon request	✓ <sup>4)</sup>				✓ <sup>4)</sup>				✓ <sup>4)</sup>			✓ <sup>4)</sup>	✓ <sup>4)</sup>

✓ 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, 16 bar/1600 kPa for d76.1 mm, 12 bar/1200 kPa for d88.9–108 mm

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

<sup>5)</sup> 16 bar/1600 kPa for d15–54 mm

<sup>6)</sup> 16 bar/1600 kPa for d15–76.1 mm, 10 bar/1000 kPa for d88.9–108 mm

<sup>7)</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“