

GEBERIT SUPPLY SYSTEMS
CERTIFIED SYSTEMS
FOR **NEGATIVE**
PRESSURE
APPLICATIONS

Whether in the packaging industry, in suction lines for oils, fuels and other media, in clean room technology or in mechanical engineering, negative pressure plays a crucial role in a whole host of industrial and commercial applications.

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Check the chemical resistance
for Geberit pipe systems with
Geberit PipeSelect:
<https://pipeselect.geberit.fi/>



NEGATIVE PRESSURE IN A NUTSHELL

Negative pressure refers to a pressure range lower than the normal air pressure at sea level, known as atmospheric pressure. This is around 1013.25 hectopascals (hPa) on average. Depending on the weather, it can fluctuate by about 5% and decreases steadily with increasing altitude above sea level.

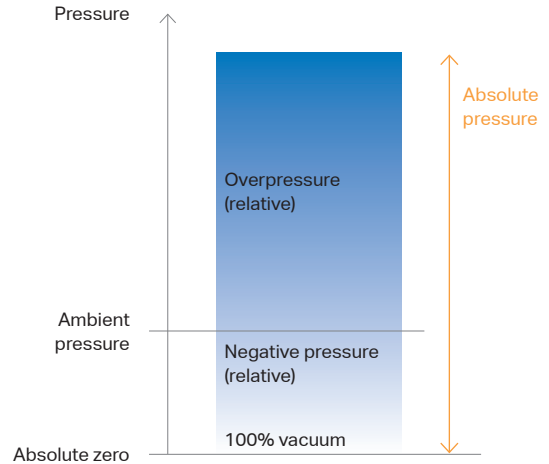
The lowest possible pressure is absolute vacuum, corresponding to 0 mbar. The range between this value and atmospheric pressure is referred to as negative pressure.

In technical applications, negative pressure is usually specified as relative pressure. This means that the difference between the ambient air pressure and the desired system pressure – for example in a pipeline – is measured. In practice, negative pressure levels therefore range between 1013 mbar and 0 mbar.

GEBERIT MEETS REQUIREMENTS FOR NEGATIVE PRESSURE APPLICATIONS

Piping systems in negative pressure applications must be able to rely on a high level of tightness for the pipes and connections. Depending on the application, the level of resistance to corrosion, mineral oil products and other media also plays a role.

Geberit piping systems have been certified by the DVGW up to 200 mbar. Applications below 200 mbar can be accommodated on request. Geberit Mapress Stainless Steel, Copper and Carbon Steel are also all DIBt-approved for oils and fuels. The pipe connections in the Geberit pressing systems have passed the negative pressure test according to the German Technical and Scientific Association for Gas and Water (DVGW), Worksheet W 534, Section 102, with a negative pressure of -0.8 bar relative to atmospheric pressure. Geberit press fitting systems therefore offer reliable solutions for a wide range of negative pressure applications.



↑ Typical negative pressure applications lie in the range between the ambient atmospheric pressure and the vacuum.



↑ CIIR seal ring for secure sealing in general industrial applications.

APPLICATION AREAS

Higher or lower pressures available on request

	Geberit Mapress			Geberitmultilayer systems	
	Geberit Mapress Stainless Steel 1.4401	Geberit Mapress Stainless Steel 1.4521	Geberit Mapress Copper CW024A	Geberit FlowFit	Geberit Mepla
Negative pressure: Maximum value -0.8 bar with a minimum absolute pressure of 200 mbar	○	○	○	✓	✓

○ Applications with black CIIR seal ring with predetermined operating data