

■ GEBERIT

The cold safely under control.

Geberit Supply Systems for water cooling systems

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HOW
INSTALLED**

Geberit Supply Systems for water cooling systems.

Water cooling systems, also known as water chillers, are generally self-contained circulation systems that produce cold by means of a liquid medium. In contrast to conventional refrigerating machines, water or water/glycol mixtures are used for cooling. What's more, the availability and absolute safety of the cooling medium are significant factors.

Geberit Mapress Stainless Steel/Stainless Steel, LABS-free

The Geberit Mapress Stainless Steel pressing system (material numbers 1.4401, 1.4521 and 1.4301), with dimensions d12–108, can be used with a factory-set seal ring made of chlorinated butyl rubber (CIIR) in open and closed water cooling systems with an operating temperature ranging from -30 °C to 100 °C. The content of water-soluble chloride ions in cooling water should not exceed 250 mg/l.

Geberit Mapress Carbon Steel

The Geberit Mapress Carbon Steel pressing system, material number 1.0034, outside zinc-plated, with dimensions d12–108, can be used with a factory-set seal ring made of chlorinated butyl rubber (CIIR) in closed circuits with an operating temperature* ranging from -30 °C to 100 °C. Geberit Mapress Carbon Steel system pipes are also available with PP jacketing in dimensions d12–54.

Geberit Mepla

The Geberit Mepla supply system, comprising a multilayer pipe (PE-HD aluminium PE-Xb) with fittings made of PVDF and gunmetal, with dimensions d16–75, can be used in water cooling systems with an operating temperature ranging from 0 °C to 85 °C.

Application ranges

	Heating/cooling circuit, closed	Heating/cooling circuit, open	Temperature (°C)	
Geberit Mapress Stainless Steel system pipe, 1.4401, CIIR	×	×	-30 to 100	Protective coating in accordance with German AGI Q 151 only required for increased chloride ion concentration
Geberit Mapress Stainless Steel system pipe, 1.4521, CIIR	×	×	-30 to 100	
Geberit Mapress Carbon Steel system pipe, outside zinc-plated, CIIR	×		-30 to 100	Protective coating for cold water applications required in accordance with AGI Q 151
Geberit Mapress Carbon Steel system pipe with PP jacketing, CIIR	×		-30 to 100	Corrosion protection for fittings with grease tape, e.g. DENSOTEC
Geberit Mepla EPDM	×		0 to +85	

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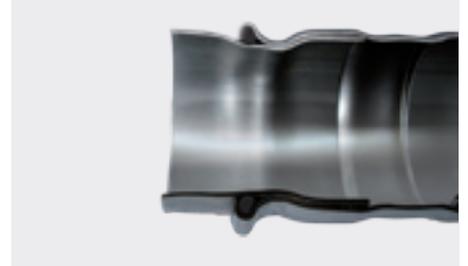
Geberit Mapress Stainless Steel 1.4401 and 1.4521.



High-quality fitting and pipe materials.



Permanently tight lengthways non-positive connections.



In accordance with worksheet AGI Q 151 (German Industrial Construction Association), industrial systems made of non-alloy and low-alloy steels must be provided with additional corrosion protection for surface temperatures ranging from -50 °C to +150 °C. This is important for Geberit Mapress Carbon Steel, outside zinc-plated.

If increased chloride ion concentrations in conjunction with dampness and temperatures > 35 °C cannot be ruled out, stainless, austenitic steels should be protected against corrosion in accordance with the requirements of Q 151.