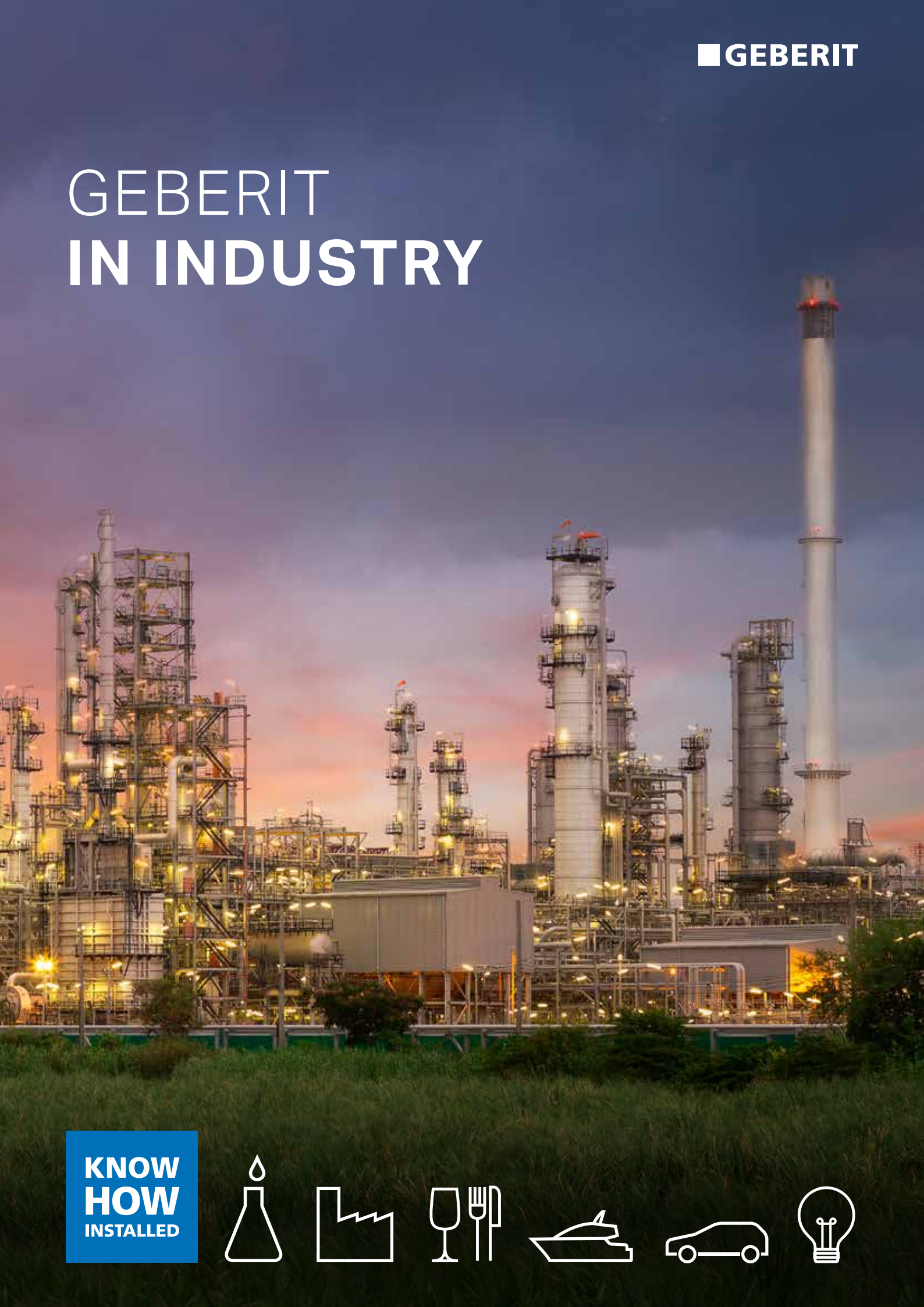
GEBERIT

GEBERIT
IN INDUSTRY



KNOW
HOW
INSTALLED

GEBERIT PIPING SYSTEMS

SOLUTIONS FOR APPLICATIONS **IN INDUSTRY**

Industrial supply and drainage systems transport water, oil, gas, compressed air and many other media, fulfilling the most demanding safety standards in industrial applications.

With Know-How and experience gathered over decades, Geberit develops products and systems that guarantee safe, efficient and reliable solutions for a wide range of specialist applications.

APPROVALS AND MEMBERSHIPS

QUALITY, SAFETY AND RELIABILITY ASSURED

TECHNICAL BUILDING SYSTEM

SHIPBUILDING

INDUSTRY

ASSOCIATIONS

*Mapress Stainless Steel only.

CONTENT

ENERGY
- Fire extinguishing systems
- Compressed air
- Technical gases
- Fuels

CHEMICAL AND PHARMACEUTICAL
- Process, cooling and demineralised water
- Compressed air
- Industrial gases
- Fire extinguishing systems

MANUFACTURING
- Process, cooling and demineralised water
- Compressed air
- Industrial gases
- Technical liquids
- Fire extinguishing systems

FOOD AND BEVERAGE
- Drinking water pipes
- Saturated steam
- Industrial gases
- Cleaning agents/ disinfectants

SHIPBUILDING AND OFFSHORE
- Drinking water pipes and offshore
- Heating/cooling
- Engine room systems
- Seawater pipelines
- Fire extinguishing systems
- Drainage systems

AUTOMOTIVE
- Process, cooling and demineralised water
- Compressed air
- Industrial gases
- Technical liquids
- Oils and fuels

DEDICATED GEBERIT INDUSTRY TEAM

SUPPORTIVE, INNOVATIVE AND SOLUTIONS-FOCUSED

The industry wide experience of the Geberit team ensures consistently high standards across every application. Our trusted transporting, sealing, connecting and supplying expertise means that we can provide you with exceptional service across three key areas:

TECHNICAL EXPERTISE

With our solutions-focused approach, we're always here with the technical advice and support your contractors and engineers need. Our Geberit Industry team are experts in the installation, servicing and repairing of Geberit products across a diverse range of sectors, in the most demanding environments.

PRODUCT EXCELLENCE

Geberit products consistently meet the most rigorous safety and performance criteria. Our team has the detailed Know-How to help you choose the perfect solution for every application, together with national and international approvals and expert reports for our products and systems.

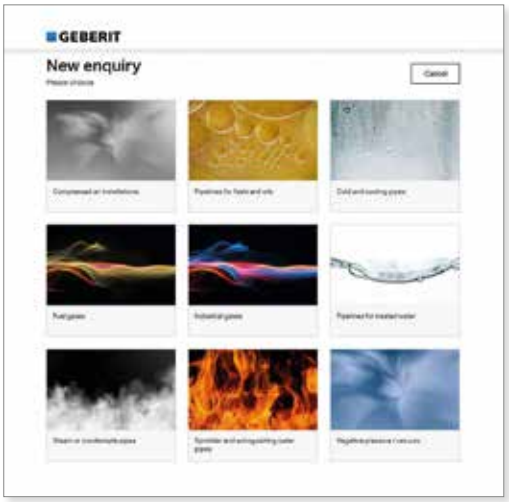
UNRIVALLED INSTALLATION SUPPORT

From pre-installation site inspections to step-by-step installation and maintenance guides, we're here to help. We can provide industry-leading training on-site or at our training academies and because easy installation is a core benefit of every Geberit product, fitting times are significantly reduced, resulting in considerable cost savings. Once installed, each product also carries the added reassurance of our manufacturer's guarantee.

GEBERIT INDUSTRIAL APPLICATION TOOL

JUST A FEW CLICKS AWAY FROM THE PERFECT SYSTEM

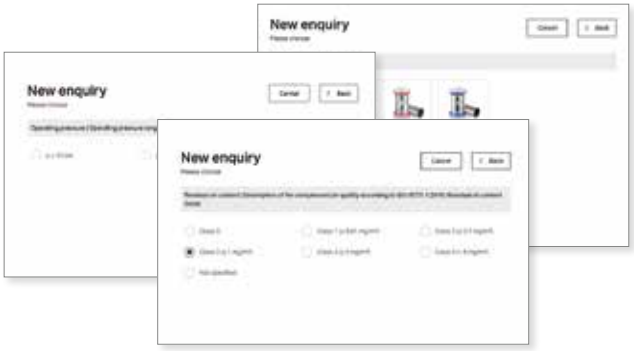
The Geberit Industrial Application Tool is the quick and reliable application test for medium-transporting supply systems from Geberit. The web tool provides clarity in the planning and installation of industrial and shipbuilding piping.



←

1. APPLICATION SELECTION

The first step is to select the application. This is where a selection of standard applications is provided. For very specific topics, a direct link is provided to a written request.



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2. SPECIFICATION OF THE MEDIUM AND THE OPERATING PARAMETERS

After selecting the application and the desired piping system, different parameters can be selected for the medium and the operating and ambient conditions.

←

3. OVERVIEW, RESULT AND APPROVAL

If the parameters correspond to the specifications of the piping system, approval is granted immediately. Users can have this approval sent directly to them by email. If no approval can be given, there is the option of selecting a different piping system or submitting a written request with the details already selected.

Get started now **www.geberit.co.uk/industrytool**

GEBERIT SUPPLY SYSTEMS

VERSATILE FOR **TREATED WATER**

Treated water is used in a variety of applications. Substances are removed or added depending on the intended purpose. The specific and precise change to the water quality is used, for example, in drinking water, filling water for cooling and heating systems or in service water in trade and industry. Geberit offers piping systems for virtually all treated water.

GEBERIT MAPRESS

The Geberit Mapress Stainless Steel pressing system is suitable for nearly all treated water, such as softened or fully desalinated water, as well as ultrapure water with conductivities of ≥ 0.1 µS/cm. It ensures safe hygiene and corrosion resistance at pH values of ≥ 4. As a rule, all methods for producing treated water, such as distillation, ion exchange or reverse osmosis, can be used.

GEBERIT FLOWFIT

The flow-optimised supply system made of metal composite material can be installed effortlessly with just two pressing jaws for eight pipe dimensions.

SMOOTH SYSTEM TRANSITION

Thanks to corresponding system components, making the transition from Geberit FlowFit to Geberit Mapress Stainless Steel could not be simpler.

↑
Geberit Mapress Stainless Steel adapters

↑
Geberit FlowFit transitions made of stainless steel

TREATED WATER FOR INDUSTRIAL APPLICATIONS (EXCEPT HEATING AND COOLING WATER)

	Geberit Mapress Stainless Steel 1.4401	Geberit Mapress Stainless Steel 1.4521	Geberit Mapress Copper CW024A[1]	Geberit FlowFit (PE RT II – Al – PE RT II)	
Softened water > 5° dH	■	■	■	■	
Softened water< 5° dH	■	■	■ [2]	■ [1]	
Demineralised water, level of purity 3	■	■		■ [1]	Conductivity 1 up to 20 µS/cm
Demineralised water, level of purity 2	■	■		■ [1]	Conductivity 0.1 up to < 1 µS/cm
Demineralised water, level of purity 2+	■	■			Conductivity 0.056 up to < 0.1 µS/cm
Demineralised water, level of purity 1					Conductivity > 0.055 up to < 0.056 µS/cm
Demineralised water, level of purity 1+					Conductivity 0.055 µS/cm

■ Applications with black CIIR seal ring for Geberit Mapress system with predetermined operating data

NOTE

Pressing systems are not suitable for waters with increased requirements such as ultrapure water degree 1 or ultra-ultrapure water degree 1+, or waters which are used to prepare medications (highly purified water, Aqua valde purificata) and for injection purposes (water for injection, Aqua ad iniectabilia). Increased requirements may include, for example conductivity < 0.1 µS/cm, CFU < 10/ml and TOC < 10 or seamless pipe joints.

[1] Geberit FlowFit fittings made of gunmetal, copper, silicon bronze and brass are not suitable for softened water of < 5°dH or deionised water LP3 and LP2.

[2] On request

GEBERIT SUPPLY SYSTEMS

PUT OUT THE FIRE **EVERY TIME**

From automatic triggering sprinkler systems to manually operated water conduits for fire extinguishing, wet sprinkler systems to dry sprinkler systems: in the event of a fire, fire protection equipment must perform reliably. Geberit Mapress piping systems fulfil the requirements specified in relevant standards and regulations.

Geberit pressing systems have been used in sprinkler systems and extinguishing water pipes for many years. The quick and flexible installation of these systems saves time and costs. Using Mapress system pipes and fittings allows weight savings of up to 50% compared with conventional systems.

←
GEBERIT MAPRESS STAINLESS STEEL: PRODUCT MATERIAL 1.4401
Tested and approved for wet and dry sprinkler systems. For example, by VdS and FM and according to DIN 14462 also suitable and can be used for 'wet', 'wet/dry' and 'dry' extinguishing water pipes.

APPLICATION RANGES

	Approval	Geberit Mapress Stainless Steel 1.4401
Wet sprinkler systems	VdS	■
	FM	■
	LPCB	■
Dry sprinkler system and dry/wet sprinkler system	VdS	■
	FM	■
Wet extinguishing water pipe in accordance with DIN 14462		■
Dry extinguishing water pipe and dry/wet extinguishing water pipe		■ [1] ■ [2]

■ Applications with black CIIR seal ring with predetermined operating data
■ Applications with blue FKM seal ring with predetermined operating data

[1] According to VdS approval for sprinkler systems
[2] According to FM approval for sprinkler systems

VdS FM APPROVED LPCB TS 1599: Issue Draft 5 Cert/LPCB ref. 1031a

GEBERIT SUPPLY SYSTEMS

PRESSURE RESISTENT FOR **COMPRESSED AIR PIPES**

Whether compressed air is needed as control air in mechanical engineering or the automotive industry, or as process air for production or manufacturing processes, for instance, in the food & beverage industry: the Geberit Mapress pressing systems offer the right pipe and fitting material for any required compressed air quality.

←
All systems are equipped with a pressing indicator and contour seal ring.

Compressed air is always an economical energy source when the procedures involved in generating, processing and distributing compressed air are optimally aligned with one another. Depending on the compressed air quality required, Geberit Mapress Stainless Steel, Carbon Steel or Copper can be used to distribute the compressed air. Geberit pressing systems have been used in compressed air systems for many years.

The consistently reliable seal and the quick, easy installation technology, make this a high-quality and cost-effective connection technology.

APPLICATION RANGES

Maximum operating pressures subject to pipe dimensions, details and higher pressures on request:	Solids/particles class [1]				Moisture/water class[1]					Oil class [1]		
	0	1 – 2	3 – 7	X	0	1 – 4	5 – 6	7 – 9	X	0 – 1	2 – 3	4 – 5
Geberit Mapress Stainless Steel 1.4401 (CrNiMo)	✓	✓	✓	✓	✓	✓	✓	✓	✓	■ ■	■ ■	■
Geberit Mapress Stainless Steel 1.4301 (CrNi)	✓	✓	✓	✓	✓	✓	✓	✓	✓	■ ■	■ ■	■
Geberit Mapress Carbon Steel inside and outside zinc-plated 1.0215			✓	✓	✓	✓	✓				■ ■	■
Geberit Mapress Copper DIN EN 1057:2010-06		✓	✓	✓	✓	✓	✓	✓	✓		■ ■	■
Geberit FlowFit (PE RT II – Al – PE RT II)	On request											

Geberit Mapress Stainless Steel and Geberit Mapress Carbon Steel: 16 bar for dimensions 12–54 mm, 12 bar for dimensions 76.1–108 mm

Geberit Mapress Copper: 12 bar for dimensions 12–54 mm

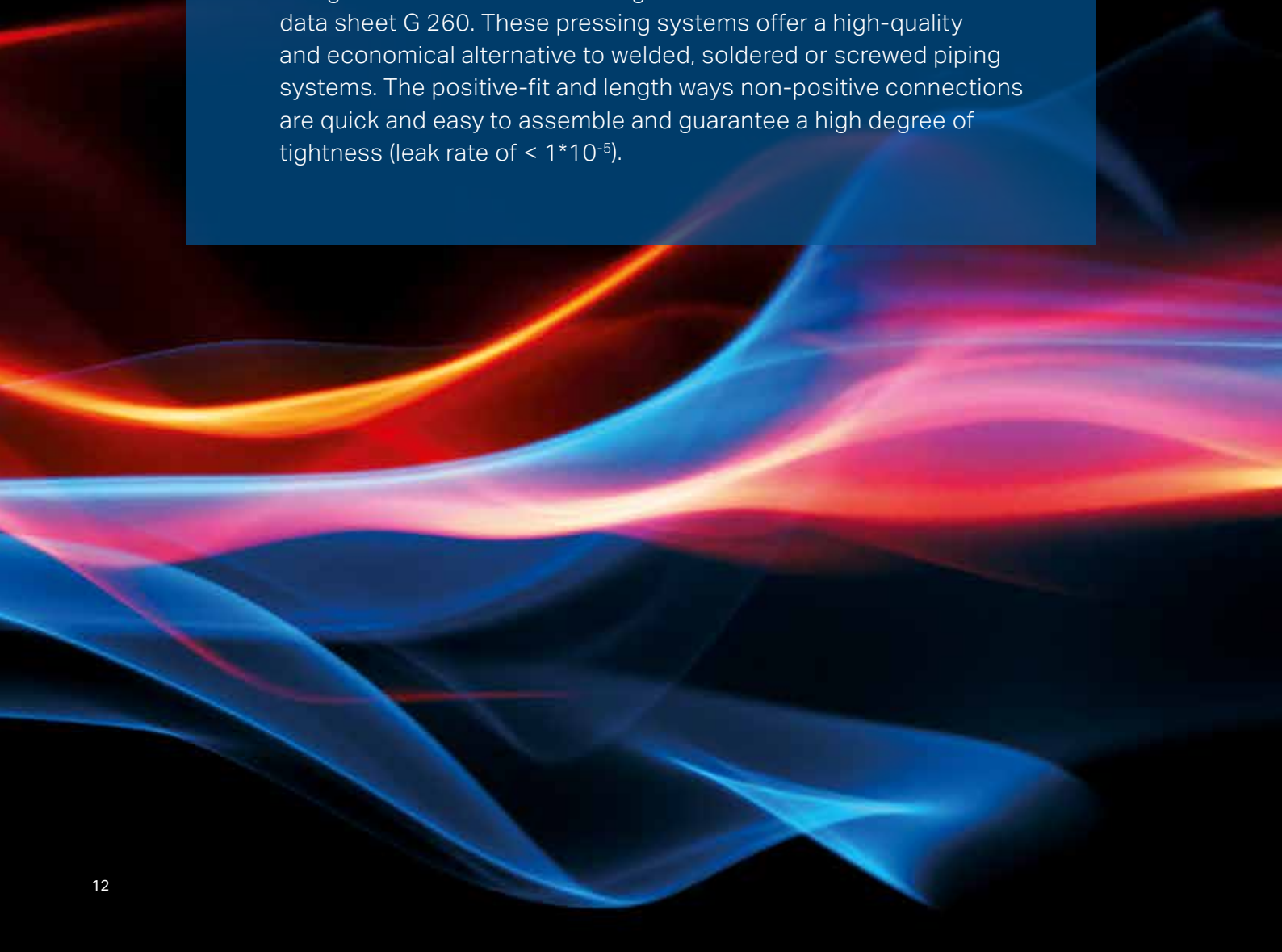
[1] Purity class in accordance with ISO 8573:1: 2010-04 – See Technical Information (TI) on compressed air for more details on compressed air classes

■ Applications with black CIIR seal ring with predetermined operating data
■ Applications with blue FKM seal ring with predetermined operating data

GEBERIT SUPPLY SYSTEMS

PROVEN SAFETY FOR **INDUSTRIAL GASES**

Geberit Mapress Stainless Steel and Mapress Stainless Steel (Gas) are tested and approved systems for a number of industrial gases and gas mixtures as well as fuel gases in accordance with DVGW data sheet G 260. These pressing systems offer a high-quality and economical alternative to welded, soldered or screwed piping systems. The positive-fit and length ways non-positive connections are quick and easy to assemble and guarantee a high degree of tightness (leak rate of $< 1*10^{-5}$).



GAS APPLICATIONS SAFELY UNDER CONTROL

Geberit Mapress Stainless Steel (Gas) and Copper (Gas) possess all the required approvals for fuel gases according to DVGW G 260. The fittings for gas installation have a yellow marking, as well as yellow protection plugs, making them easy to distinguish from other Geberit fittings straight away. To ensure secure sealing when transporting the volatile medium of gas, they are equipped with a yellow O-ring made of hydrogenated acrylonitrile-butadiene rubber (HNBR).

Geberit Mapress Stainless Steel and Mapress Copper can also be used for a variety of inert technical gases using the black standard seal ring according to the TÜV component certificate. Everything from shielding gases for welding applications through to packaging gases for the food industry is possible with the systems. Geberit Mapress Stainless Steel can even be used for various active gases such as oxygen and hydrogen.

↑
For technical gases, the Geberit Mapress pressing system can be used in all dimensions from 15 to 108 mm.

↑
Geberit fittings for gas applications are equipped with a yellow seal ring and yellow cap.

APPLICATION RANGES

	Acetylene	Argon	Natural gas	Helium	Carbon dioxide	Treated biogas	Propane	Oxygen	Nitrogen	Hydrogen (Industrial)	Hydrogen (Fuel blend)	Shielding gases in accordance with DIN EN ISO 14175	Synthetic air
Geberit Mapress Stainless Steel 1.4401	■	■		■	■			■	■	■		■	■
Geberit Mapress Stainless Steel (Gas) 1.4401			■			■	■				■		
Geberit Mapress Copper[1] CW024A		■		■					■			■	■
Geberit Mapress Copper[1] (Gas) CW024A			■			■	■				■		
Temperature range (°C)	–10 to +50	–10 to +60	–20 to +70	–10 to +60	–10 to +60	–20 to +70	–20 to +70	–10 to +60	–10 to +60	–10 to +60	–20 to +70	–10 to +60	–10 to +100

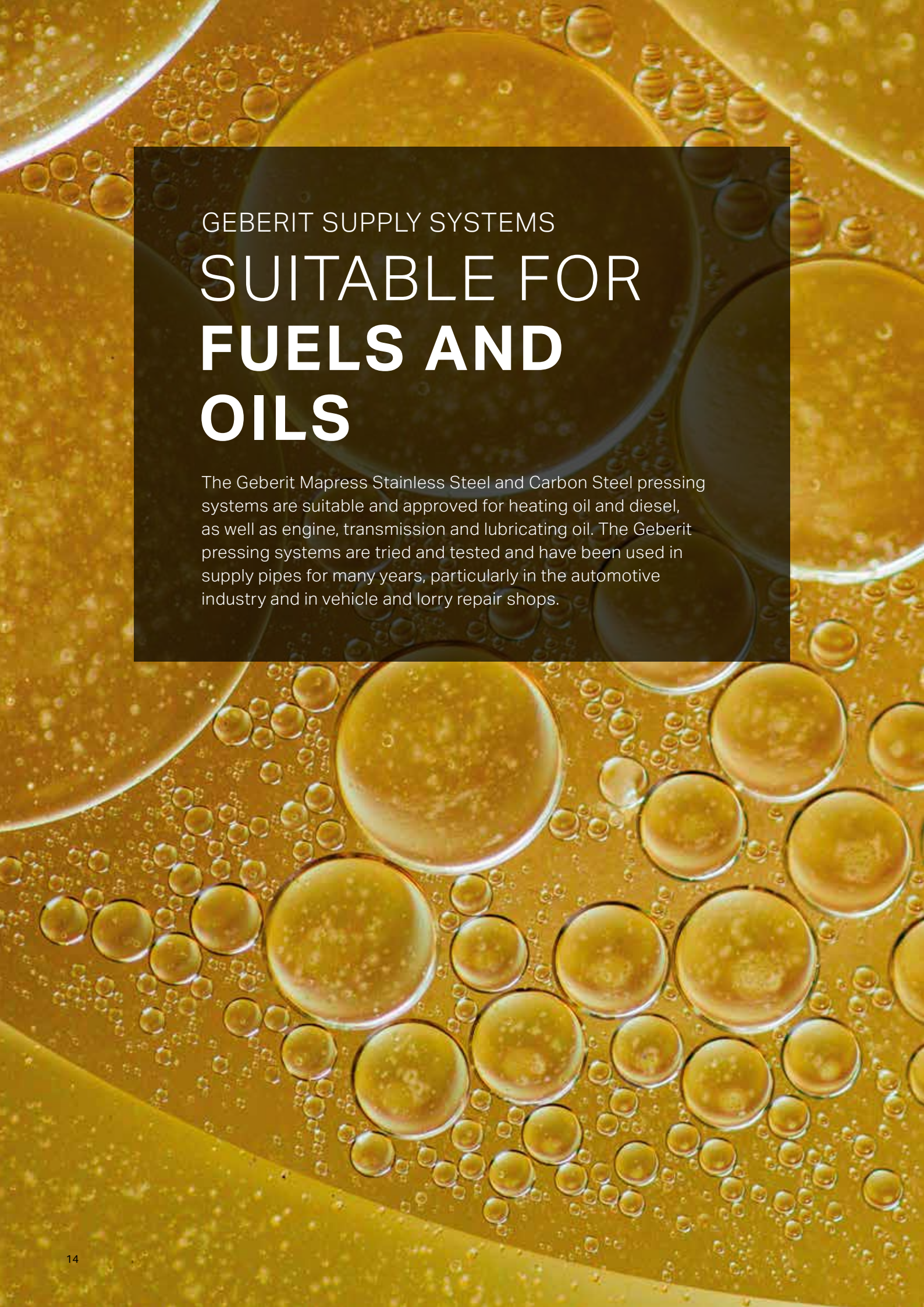
NOTE

Our works standard defines and guarantees high quality standards. All our system pipes and fittings are metallically bright, free of grease and oil, hygienically perfect and free of corrosive materials when delivered. The operating pressures listed in the TÜV component certificate are significantly limited by test reports, expert reports, standards and/or regulations in some cases depending on the medium (gas or combustible liquids, for example). Details available on request.
In connection with quality copper pipes in accordance with DIN EN 1057 and DVGW GW 392. Further gases and max. permissible operating pressures depending on gas type on request.

[1] In connection with quality copper pipes in accordance with DIN EN 1057 and DVGW GW 392. Further gases and max. permissible operating pressures depending on gas type on request.

■ Applications with black CIIR seal ring with predetermined operating data

■ Applications with yellow HNBR seal ring with predetermined operating data



GEBERIT SUPPLY SYSTEMS

SUITABLE FOR **FUELS AND OILS**

The Geberit Mapress Stainless Steel and Carbon Steel pressing systems are suitable and approved for heating oil and diesel, as well as engine, transmission and lubricating oil. The Geberit pressing systems are tried and tested and have been used in supply pipes for many years, particularly in the automotive industry and in vehicle and lorry repair shops.

APPLICATION RANGES

	Approval in acc. with VdTÜV		Approval in acc. with DIBt	
	Geberit Mapress Stainless Steel 1.4401	Geberit Mapress Carbon Steel 1.0034	Geberit Mapress Stainless Steel 1.4401	Geberit Mapress Carbon Steel 1.0034
Heating oil/diesel	■	■ [1)]	■	■
Biodiesel	■	■ [1)]	■	■
Petrol ROZ 95	■			
Benzin ROZ 98	■			
Kerosene	■			
Bioethanol	■■			
Methanol	■■			
Engine oils (SAE)	■	■ [1)]	■	■
Transmission oils (SAE)	■	■ [1)]	■	■
Lubricants and hydraulic oils	■	■ [1)]	■	■
Waste oils (SAE)	■	■ [1)]	■	■
Urea nitrate, e.g. AdBlue	■■		■	

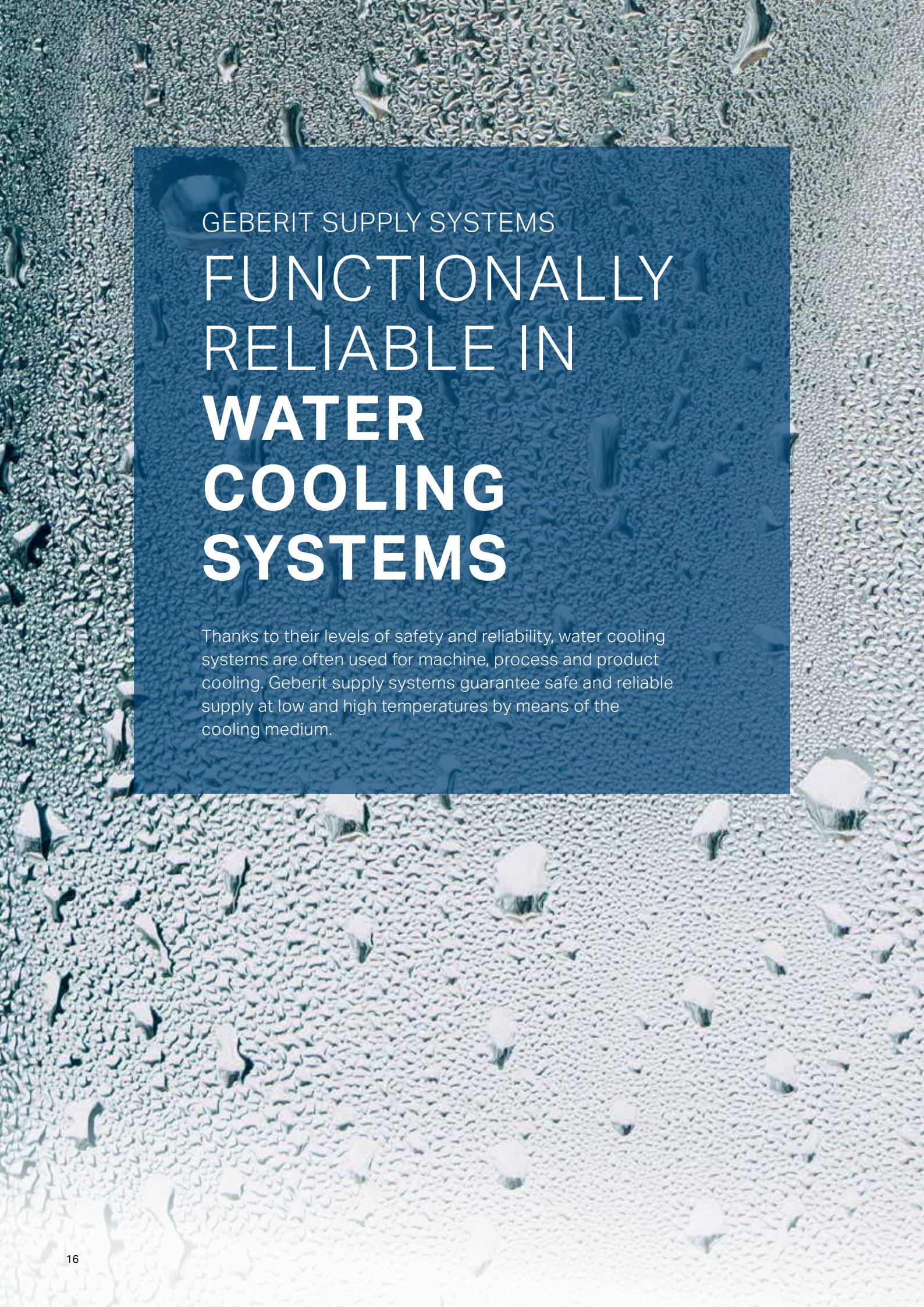
Maximum permitted operating pressure in accordance with DIBt approval: 10 bar (for all dimensions).
Maximum operating pressures subject to pipe dimensions, details and higher pressures on request.

■ Applications with black CIIR seal ring with predetermined operating data
■ Applications with blue FKM seal ring with predetermined operating data

[1)] On request

NOTE
The DIBt approval covers the use of Geberit Mapress for oils/fuels with a flashpoint > 55 °C. On the basis of the TÜV component certificate and in accordance with the requirements of the Pressure Equipment Directive (PED) and the relevant regulations, e.g. the German Federal Water Act (WHG) or the German Ordinance on Facilities for Handling Substances That Are Hazardous to Water (AwSV), the Geberit Mapress Stainless Steel pressing system can, if required, be used for flammable liquids with a flashpoint of < 55 °C. Use of the Geberit Mapress pressing systems for synthetic oils, brake fluids, cooling lubricants, penetrating oils and cutting oils must always be approved by Geberit.

↑
Seal ring, FKM, blue with a wide range of applications.



GEBERIT SUPPLY SYSTEMS

FUNCTIONALLY RELIABLE IN **WATER COOLING SYSTEMS**

Thanks to their levels of safety and reliability, water cooling systems are often used for machine, process and product cooling. Geberit supply systems guarantee safe and reliable supply at low and high temperatures by means of the cooling medium.

Water cooling systems, also known as water chillers, are generally self-contained circulation systems that reduce temperatures 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 is the versatile piping system for technically demanding applications.

↑
The Geberit Mapress Carbon Steel system pipes and fittings are made of non-alloy steel 1.0034 and are available in a variety of types and sizes.

↑
Geberit FlowFit is easy to install and can be safely used even in confined spaces.

	Heating/cooling circuit closed to the atmosphere	Heating/cooling open to the atmosphere	Temperature range (°C)	
Geberit Mapress Stainless Steel, product material 1.4401	✓	✓	–30 to +100	Limit value for chloride ion content, insulating materials according to AGI Worksheet Q 132 or BTGA Rule 3.004 specifications, otherwise corrosion protection coating.
Geberit Mapress Therm	✓		–30 to +100	
Geberit Mapress Carbon Steel, outside zinc-plated, 1.0034	✓		–30 to +100	Corrosion protection coating required in accordance with AGI (German Industrial Construction Association) worksheet Q 151.
Geberit Mapress Carbon Steel, PP-jacketed, 1.0034	✓		–30 to +100	Fittings must be protected with overlapping corrosion protection sleeves on the pipe.
Geberit Mapress Copper, product material CW024A	✓	✓	–30 to +100	
Geberit FlowFit (PE RT II - Al - PE RT II)	✓	✓	–10 to +70	

Applicable for water cooling systems with and without antifreeze agents (glycol-based frost protection).

In accordance with AGI (German Industrial Construction Association) worksheet Q 151, 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 Mapress Carbon Steel, outside zinc-plated.

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

GEBERIT SUPPLY SYSTEMS

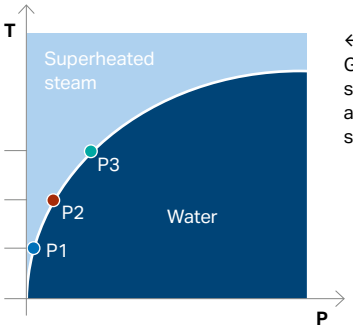
SATURATED STEAM **SAFETY UNDER PRESSURE AND HEAT**

Saturated steam is used in numerous industrial applications, including the chemical, petrochemical, refining, pulp and paper industries, to name just a few. And with temperatures reaching up to 155°C, this places high demands on the piping systems. Geberit Mapress Stainless Steel meets these requirements in conjunction with special seal rings designed for steam and condensate applications.

Two seal rings for steam applications: black up to 120°C, white up to 155°C

IDEAL FOR SATURATED STEAM

In combination with the white fluoro rubber seal ring (FKM white), Geberit Mapress Stainless Steel 1.4401 is capable of withstanding saturated steam and condensate up to a temperature of 155°C* and a pressure of 5.5 bar in dimensions up to DN100. The black CIIR standard seal ring can be used for temperatures up to 120°C and dimensions up to DN100.



← Geberit Mapress is suitable for the areas above and below the saturated steam curve.

APPLICATION AREAS

Seal rings for saturated steam and condensate	Pipe material Geberit Mapress Stainless Steel 1.4401	Dimensions [DN]	Temperature [°C]
CIIR black	✓	10 – 100	100 – 120
FKM white	✓	12 – 100	100 – 155*

VAPOUR PRESSURE TABLE

T [°C]	T [K]	pD [bar abs]	Steam volume [m/kg]
100	373,15	1,014	1,67
110	383,15	1,434	1,21
120	393,15	1,987	0,89
125	398,15	2,322	0,77
130	403,15	2,703	0,67
135	408,15	3,312	0,58
140	413,15	3,615	0,51
145	418,15	4,156	0,45
150	423,15	4,761	0,39
155	428,15	5,434	0,35

*Higher temperatures on request

GEBERIT SUPPLY SYSTEMS

CERTIFIED SYSTEMS FOR **NEGATIVE PRESSURE APPLICATIONS**

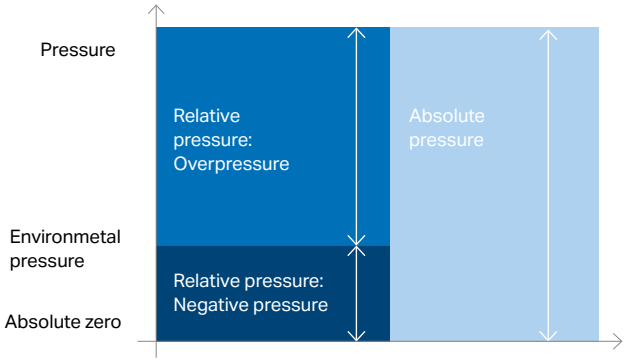
The pipe connections in the Geberit press systems have passed the negative pressure test according to the German Technical and Scientific Association for Gas and Water (DVGW), Worksheet W 534, Section 102 with a negative pressure of -0.8 bar compared to atmospheric pressure. This demonstrates that the press fitting systems from Geberit offer reliable solutions for a wide range of negative pressure applications.

EXTENSIVE APPLICATIONS IN INDUSTRY, TRADE AND RESEARCH

Whether in the packaging industry, in suction lines for oils, fuels and other media, in clean room technology or at the dentist, negative pressure plays a crucial role in a whole host of industrial and commercial applications. This concept refers to the range between atmospheric air pressure and a vacuum, where the absolute pressure is 0 mbar. At sea level, the average atmospheric pressure is 1013.25 hectopascals. This fluctuates by about five per cent during high-pressure and low-pressure weather conditions, and decreases continuously with increasing altitude above sea level. The negative pressure in an application is typically described as 'relative pressure'. This denotes the difference between the actual atmospheric pressure in the surrounding area and the required pressure in the piping system. In practice, the negative pressure ranges from 1013 mbar down to 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 absolute. Applications below 200 mbar absolute can be accommodated on request. Geberit Mapress Stainless Steel, Copper and Carbon Steel are also all DIBt-approved for oils and fuels.



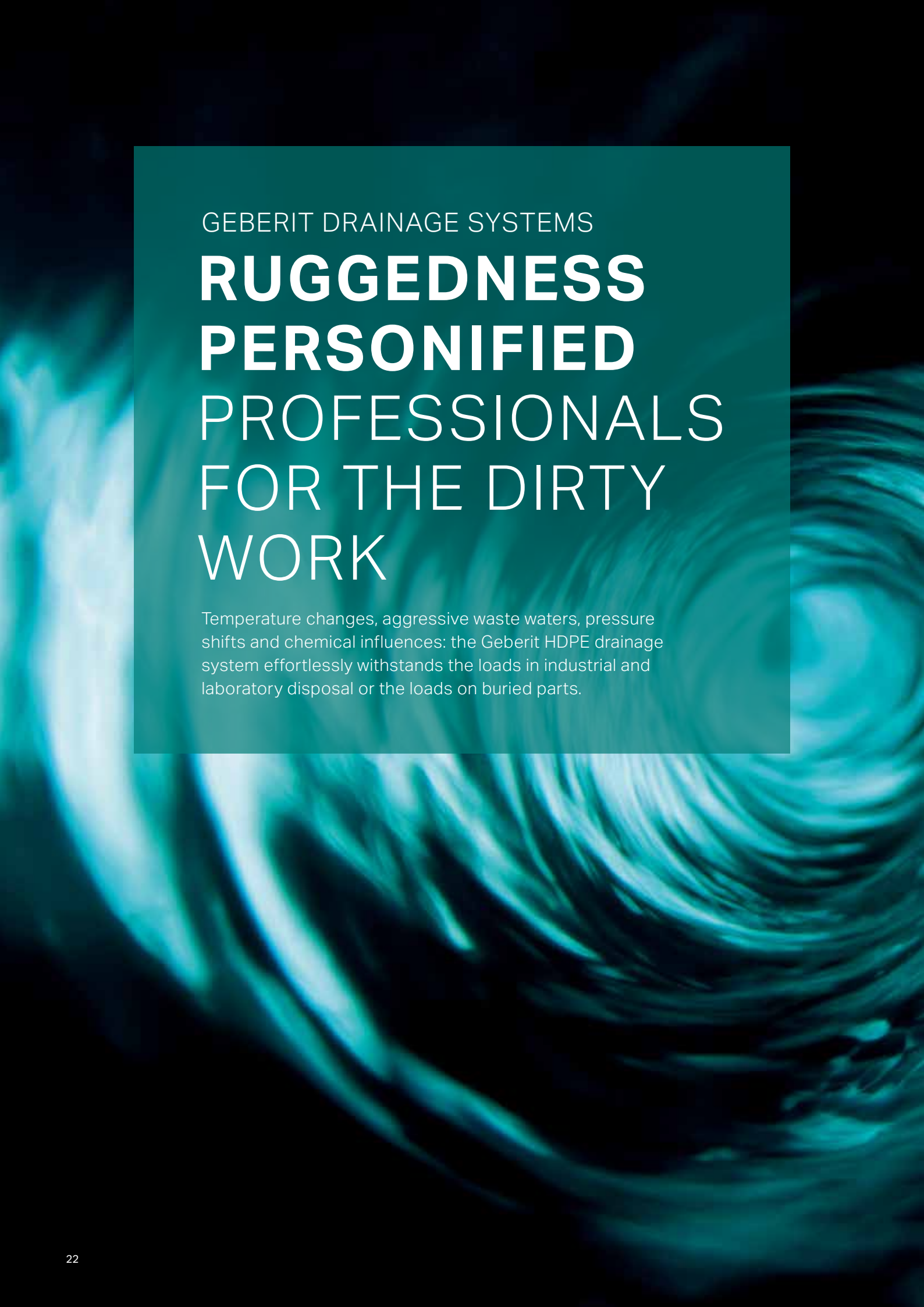
↑
Typical negative pressure applications lie in the range between the ambient atmospheric pressure and the vacuum.

↑
CIIR seal ring for a secure seal when used in negative pressure applications.

NEGATIVE PRESSURE TABLE

Pressing system	Maximum negative pressure*	Minimum absolute pressure*
Geberit Mapress Stainless Steel 1.4401 with CIIR seal ring	–0,8 bar	200 $mbar_{abs.}$
Geberit Mapress Stainless Steel 1.4521 with CIIR seal ring	–0,8 bar	200 $mbar_{abs.}$
Geberit Mapress Copper CW 024 A	–0,8 bar	200 $mbar_{abs.}$
Geberit FlowFit	–0,8 bar	200 $mbar_{abs.}$

*Higher or lower pressures on request



GEBERIT DRAINAGE SYSTEMS

RUGGEDNESS PERSONIFIED PROFESSIONALS FOR THE DIRTY WORK

Temperature changes, aggressive waste waters, pressure shifts and chemical influences: the Geberit HDPE drainage system effortlessly withstands the loads in industrial and laboratory disposal or the loads on buried parts.

The Geberit HDPE drainage system provides safety and efficiency for use in industrial and laboratory drainage as well as for buried discharge pipes. The robust and shockproof piping material of high-density polyethylene (HDPE) is resistant to abrasion, not affected by acids, lyes or other aggressive waste waters, as well as resistant to heat for hot water up to 80 °C, short-term up to 100 °C without simultaneous mechanical load, as well as resistant to cold down to -40 °C.

↑
Removable connections with loose flange or screw connection

↑
Lengthways non-positive connections by means of butt and electrofusion welding

VARIED SOLUTIONS

The comprehensive assortment of fittings with special fittings and accessories makes Geberit HDPE the universal solution for numerous drainage tasks. It is suitable, among other things, for use in industry, trade, laboratories, for buried underground pipes and for roof drainage with Geberit Pluvia.

APPLICATION RANGES WITH GEBERIT HDPE

		Share (%)	Room temperature (20 °C)	Increased temperature (60 °C)
Alkalis	Caustic potash	Up to 50	✓	✓
	Caustic soda	All	✓	✓
Acids	Sulphuric acid*	Up to 70	✓	✓
	Hydrochloric acid*	Up to 28	✓	✓
	Nitric acid	Up to 25	✓	✓
	Phosphoric acid	Up to 50	✓	✓
Salts	Phosphoric acid	All	✓	✓
	Sodium chloride (salt)	All	✓	✓

* The connections must be produced by means of butt or electrofusion welding. Use with seals only on request from Geberit.

- Tailored economical solutions for a wide range of installation projects
- Reliably detect unpressed fittings thanks to a defined leak path
- Geberit pressing tool for quick and reliable progress
- Perfectly coordinated tool components

↑
The Geberit pressing tool ensures permanently reliable connections.

↑
Coloured indicators identify unpressed Mapress fittings even before the pressure test.

↑
Easy to identify even in dark corners: Either the pressing indicator is still on the Geberit FlowFit fitting or the connection has already been pressed.

GEBERIT PRESSING SYSTEMS

CONNECTED **QUICKLY AND RELIABLY**

Your customers expect reliable and durable pipe joints. They value quick and economical work on the building site. Geberit Supply Systems, which have been used successfully for decades, enable you to achieve both goals.

SPEED MEANS COST-EFFECTIVENESS

The pipe and/or fitting change shape when they are pressed with a pressing tool developed for this purpose. Geberit press connections create solid mechanical connections which are permanent and lengthways non-positive. The resilience of the deformed seal rings ensures that the fittings are permanently and hydraulically leakproof. Pressing and insertion are quick connection methods which save a lot of time in comparison to traditional methods such as soldering or welding. As open flames are not required, many time-consuming protection measures can also be dispensed with.

↑
Mechanically stable and hydraulically leakproof: a pressed Mapress joint.

VISIBLY SECURE

Geberit Supply Systems have different mechanisms for ensuring correct processing.

Correct insertion depth
With Geberit FlowFit, the pipe is inserted until it reaches a stop position on or in the fitting. It is easy to see the correct connection.

Tool guide
In all pressing systems, the pressing jaws are designed in such a way that it is almost impossible to position the tool incorrectly. This reduces or prevents failed pressing sequences.

Pressing indicator
Unpressed Geberit Mapress fittings are identified immediately by coloured pressing indicators. The coloured pressing indicators at the ends of the fittings are easy to remove after the pressing procedure. In the case of Geberit FlowFit, the pressing indicator simply falls off after the pressing operation.

Leaky if unpressed
If Geberit FlowFit and Geberit Mapress[1)] fittings are not firmly pressed, they will certainly be leaky when subjected to a pressure test with air or water. Defined leak paths ensure that connections which have not yet been pressed are detected reliably. You and your customer can therefore be assured that the fittings will remain leakproof.

[1)] Only applies to seal rings CIIR, black, typically used in technical building systems.

GEBERIT MAPRESS

FOR VARIOUS **INDUSTRIAL REQUIREMENTS**

- Geberit pressing technology for reliable leakproof connections
- Multiple national and international approvals

For the last 50 years, the name Mapress has stood for a technologically advanced piping system with economically superior and more intelligent connection technology. Geberit Mapress has already paved the way for generations of installers who are now abandoning complex connection technologies in favour of simple and reliable pressing. With the wide range of robust product materials, the comprehensive product range, as well as the numerous combination options, Geberit Mapress sets itself apart from the rest due to its universality and is now indispensable in everyday industrial installations.

THE GROUNDBREAKING SYSTEM

Geberit Mapress is available in stainless steel, carbon steel or copper. Thanks to the large spectrum of pipe dimensions, fittings in different product materials and with different seal rings, Geberit is able to provide solutions for virtually any application in technical building systems and industry. Geberit Mapress CuNiFe is also available for use in shipbuilding projects.

EASY CONNECTION

Making the connection couldn't be easier: the whole deburred pipe is inserted into the fitting. The pressing jaw's groove is positioned over the predetermined pressing contour and the procedure is performed resulting in a permanent connection. The pen marking is useful for checking the insertion depth retroactively. The risk of an error during the pressing operation is virtually zero.

PROTECTION AGAINST DUST AND DIRT

The pressing sockets of the metal fittings are fitted with protection plugs which offer protection against dust and dirt on the building site and therefore ensure hygienically clean installations from the start. The protection plugs are transparent for general applications and yellow for gas application fittings.

←
CIIR BLACK
General applications in technical building systems and industry.

←
FKM BLUE
High temperature and chemical resistance.

←
HBNR YELLOW
The specialist for gas applications.

←
FKM WHITE
The expert for saturated steam applications.

- For high requirements in terms of hygiene and load bearing capacity
- Can be chemically and thermally disinfected
- Extremely high corrosion resistance and excellent hygiene characteristics
- Suitable for different – even aggressive – media

GEBERIT MAPRESS STAINLESS STEEL 1.4401

GLOSSY FINISH FOR HIGH REQUIREMENTS

Geberit Mapress Stainless Steel is the versatile installation system which meets high technical requirements. The product material demonstrates its performance capability in the drinking water supply, in complex industrial applications and in installations with high hygienic requirements, such as those in hospitals or laboratories.

System pipes made of high-alloy, austenitic, stainless CrNiMo steel with material number 1.4401 according to DIN EN 10088, available in pipe dimensions of 12–108 mm.

HIGH MOLYBDENUM CONTENT

The Geberit Mapress Stainless Steel 1.4401 system has a minimum molybdenum content of 2.2%. This value is higher than the usual standards and therefore ensures an extremely high corrosion resistance.

↑
Geberit Mapress Stainless Steel is approved for sprinkler systems.

HYGIENICALLY PURE ALL THE TIME

Geberit Mapress Stainless Steel system pipes and fittings are delivered to wholesalers from the factory free of grease and oil and hygienically perfect, sealed with plugs and caps. If required, Geberit Mapress Stainless Steel can be used for chemical and thermal disinfection in accordance with local drinking water regulations.

APPROVED

Geberit has a number of approvals for Mapress Stainless Steel in technical building system installations and industrial and shipbuilding applications. For example, Geberit Mapress Stainless Steel is approved for drinking water installations, certified by DVGW in Germany with the system approval mark DW-8501AT2552 and UKReg4 in the UK. Sprinkler systems are certified in Germany by VdS G 4990013 and G 4910039 and LPCB in the UK, and for fluids in Groups 1 and 2 in accordance with the Pressure Equipment Directive (PED) 2014/68/EU, certified by TÜV component certificate TÜV A.271-17.

A COMPREHENSIVE SYSTEM

With eleven nominal widths and around 500 fittings and adapters, Geberit Mapress Stainless Steel offers a comprehensive range of application options. The Geberit Mapress Stainless Steel fittings are identified by the blue indicator ring.

GEBERIT MAPRESS CARBON STEEL

CLOSED CIRCUITS RELIABLY PRESSED

Geberit Mapress Carbon Steel is an economical solution for piping systems that are closed to the atmosphere. Typical application ranges include heating and cooling circuits, solar systems and “wet” sprinkler and extinguishing water pipes.

JACKETED OR ZINC-PLATED

The Geberit Mapress Carbon Steel pressing system comprises system pipes and fittings, outside zinc-plated with material number 1.0034, as well as system pipes, plastic-jacketed (PP) with material number 1.0034, and system pipes, inside and outside zinc-plated with material number 1.0215. Geberit Mapress Carbon Steel is available in pipe dimensions of 12–108 mm; the plastic-jacketed system pipes are available in dimensions of 12–54 mm.

BROAD RANGE OF APPLICATIONS

With its 8 µm thick zinc layer, Geberit Mapress Carbon Steel, outside zinc-plated, meets the requirements of stress stage 1 in accordance with DIN EN ISO 2081. Geberit Mapress Carbon Steel is therefore suitable for laying in dry, heatable interiors (corrosivity category C1). The plastic-jacketed system pipe with cream polypropylene jacketing is particularly suitable for visually unobtrusive surface mounting, as well as cooling circuits closed to the atmosphere. The inside and outside zinc-plated system pipe is the economical alternative for compressed air installations.

- For atmospherically closed circuits and compressed air systems
- Easy and safe processing

GEBERIT MAPRESS THERM

ECONOMICAL **FOR NON-POTABLE WATER**

Geberit Mapress Therm is suitable for use in many applications where moisture can occur and no approvals for drinking water are required.

EASY RECOGNITION

The Geberit Mapress Therm fittings are clearly identifiable by the orange pressing indicator, while the Geberit Mapress Therm system pipes feature a continuous orange line that runs along the length of the pipe.

SUITABLE FOR VARIOUS APPLICATIONS

The Geberit Mapress Therm system is suitable for a wide range of applications in technical building systems and industrial environments, including heating and cooling circuits (with or without frost protection), as well as compressed air, inert gas and negative pressure applications.

Fittings and pipes are marked with the 'non-potable water' warning sign.
←

- Affordable stainless steel alternative when drinking water approval is not required
- Corrosion-resistant
- For cooling circuits and compressed air
- Compatible with the familiar Geberit Mapress pressing tools

GEBERIT MAPRESS COPPER

ROBUST CLASSIC WITHOUT SOLDERING

Robust, convenient and hygienic: this is why many installers regularly use copper. With Geberit Mapress fittings, you benefit from the contemporary press-fit connection technology, which is processed reliably without soldering and therefore without fire risk.

The Geberit Mapress selection of copper products includes fittings from DHP copper with material number CW024A, gunmetal with material number CC449K and brass with material numbers CW602N and CW617N.

VERSATILE APPLICATIONS

In drinking water installations, heating and cooling water systems, as well as gas and compressed air pipes – copper is found on many building sites even today. Geberit Mapress Copper is also suitable for special applications with increased requirements.

SAFE PROCESSING WITHOUT AN OPEN FLAME

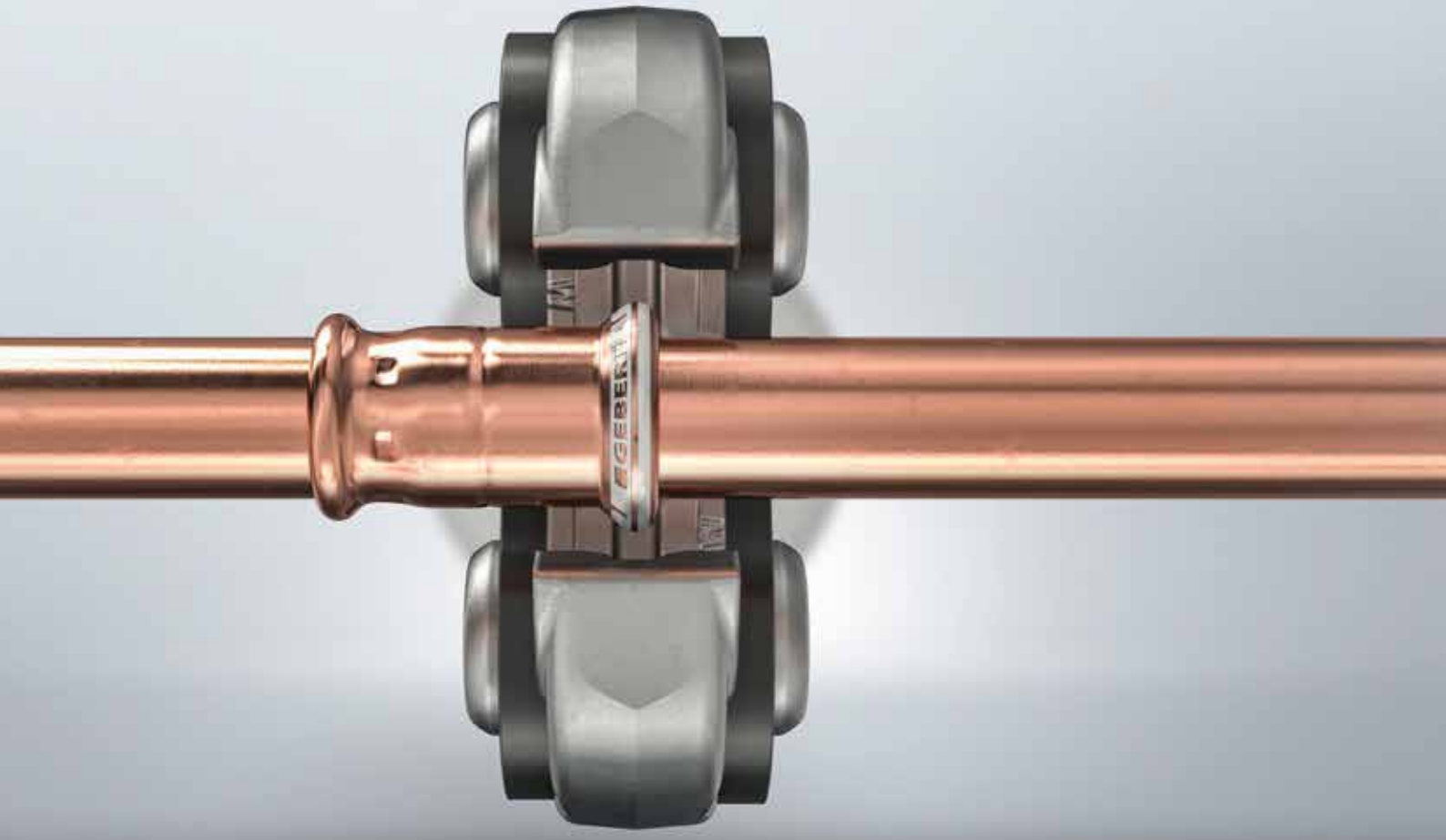
Pressing rather than soldering – Geberit Mapress Copper is based on this principle. This increases safety on the building site, as an open flame is not used. Complex fire protection measures are therefore not required.

COMPREHENSIVE FITTING ASSORTMENT

The Geberit Mapress copper range comprises a variety of fittings in dimensions of 12–108 mm for Mapress Copper and dimensions of 12–54 mm for Mapress Copper (Gas). Geberit recommends using quality copper pipes in accordance with DIN EN 1057 and DVGW GW 392 – annealed (R220), half-hard (R250) or hard (R290) depending on the dimension.

←
Geberit Mapress copper fittings for a variety of applications.

- Quickly pressed without open flame compared to soldered joints
- Robust connection through cold deformation of pipe and fitting
- Safety thanks to clear detection of unpressed connections
- High pressure and temperature resistance



GEBERIT MAPRESS CUNIFE

WHEN YOUR WATER IS SEAWATER

Seawater has a corrosive effect on many metals due to its chloride content. Geberit Mapress CuNiFe system pipes and fittings are THE specialists for applications involving contact with seawater, and are therefore fit for use in a range of shipbuilding and offshore projects.

Geberit Mapress CuNiFe system pipes and fittings consist of a CuNi10Fe1.6Mn alloy with material number CW325H.

PROVEN EFFECTIVENESS IN CONTACT WITH SEAWATER

Geberit Mapress system pipes and fittings made of CuNiFe have an excellent corrosion resistance to seawater. This high corrosion resistance is due to a natural, thin protective coating that quickly forms upon contact with clean seawater. This complex protective coating is mainly made up of copper oxide and is improved by additional nickel and iron, ensuring excellent corrosion resistance.

WIDE RANGE OF APPLICATIONS

The reliability and corrosion resistance of the Geberit Mapress CuNiFe system pipes and fittings have proven themselves in a variety of applications in which installations carry seawater. Shipyards, shipping companies and system suppliers put their trust in this system, using it in shipbuilding and offshore projects for machine systems, fire extinguishing systems and sanitary technology systems. A further area of application is in seawater desalination plants.

RELIABLE PROCESSING WITHOUT NEW TOOLS

Geberit Mapress CuNiFe is suitable for piping systems up to pressures of 13 bar. The tried-and-tested Geberit pressing tools are also used for Geberit Mapress CuNiFe, guaranteeing the mechanical strength and tightness of the connections. As is standard practice at Geberit, Geberit Mapress CuNiFe system pipes and fittings are delivered with protective plugs to protect them from impurities and maintain installation hygiene right up to the processing stage.
The system pipes are available in dimensions of 15–108 mm.

↑
Geberit Mapress CuNiFe fittings can be identified by their material colour as well as the black pressing indicators.

- Excellent corrosion resistance to seawater
- Black protective caps on the pipe ends and protective caps on the fittings prevent the accumulation of dust and dirt
- Special thermal and mechanical treatments of the pipes and fittings create a homogeneous, high-quality material structure

- Effortless installation involving just a few steps
- Flow-optimised supply system
- Just two pressing jaws for eight pipe dimensions
- Pressing indicator signals unpressed connections even in difficult visibility conditions
- Virtually no failed pressing sequences thanks to reliable tool attachment

GEBERIT FLOWFIT

FLUID INSTALLATION

When it comes to the practical side of installing supply systems, installers are confronted with workflows that are frequently interrupted. With Geberit FlowFit, a new supply system has been created that removes all disruptive factors from the installation process. This makes the installation as fluid and straightforward as it should be.

EFFORTLESS INSTALLATION

Geberit FlowFit makes it possible to handle a complete installation up to d40 without changing tools, as it only requires two pressing jaws to cover eight dimensions. Working with such a small number of tools – which are clearly colour-coded according to the individual dimensions – makes it almost impossible to mix up the pressing jaws. The pipe is cut to length and inserted into the fitting without the need for calibration or deburring. Inspection windows in the fittings clearly indicate whether a pipe has been inserted fully.

The pressing indicators have been designed to act as a clear tool guide rim. They fall off after pressing, making it obvious which connections have already been pressed.

MINIMAL PRESSURE LOSSES

The bent swept-entries of the fittings achieve reduced pressure losses compared to typical standard systems. These are made possible by innovative production technology. The hydraulic optimisation of fitting and pipe geometry makes it possible to achieve pipe diameters with smaller dimensions and an overall leaner installation with reduced pipe contents and draw-off times.

↑
Just two pressing jaws are required to press all eight dimensions. The colour coding of the pressing indicator and pressing jaw makes it easy to identify which tool is the right one to use. Even the large dimensions are processed with a pressing jaw instead of a pressing collar.

GEBERIT FLOWFIT

CLEAN INSTALLATION EVEN ON A DIRTY BUILDING SITE
All Geberit FlowFit fittings, including the threaded connections and pipes, are fully protected against dirt and transport damage with protective caps.

QUICKER INSTALLATION
The Geberit FlowFit system does not require any calibration or deburring of the pipe. What's more, the elimination of this process also serves to speed up the installation. A specially designed calibration tool is provided for non-round pipes to reduce insertion forces.

VISIBLE UNPRESSED FITTINGS
Following a successful pressing procedure, the pressing indicator detaches so that it is clear to see any unpressed connections in no time when carrying out a subsequent connection check – even in poor lighting conditions. What's more, defined leaks make unpressed fittings visible at a glance in the pressure test.

NO MORE FAILED PRESSING SEQUENCES
The tool and pressing indicator fit together like a lock and key. This virtually eliminates the risk of a failed pressing sequence caused by incorrect positioning.

NO ELECTRICITY REQUIRED
Is it possible to install an entire project with just one tool? With Geberit FlowFit, it couldn't be easier thanks to the hand-operated pressing pliers, which can be used up to d40 mm to make additional tools and pressing jaws redundant. Hand-operated pressing pliers do not need to be connected to the power supply to install pipes, which means the tool is always available, and there are no unnecessary interruptions to the process for replacing batteries or charging rechargeable batteries.

CLEAN MATERIAL
An environmental product declaration exists for Geberit FlowFit for corresponding building certifications. Lead-free fittings comply with future legal drinking water regulations.

100% QUALITY CONTROL
The fully automated production process includes permanent quality assurance in various sub-processes. Each fitting has a unique identifier based on its production date and time as well as its batch number.

INSERTION DEPTH ACCURACY

The fitting has its own inspection window that provides information about the insertion depth. What's more, the clear visual distinction between the silver grey pipes and the black fittings prevents any potential ambiguity.

COMPREHENSIVE ASSORTMENT

Available in eight dimensions from d16 to d75 mm and in the pipe variants bars, coils, with protective tube and pre-insulated, Geberit FlowFit covers the usual practical applications in drinking water and heating installations. Pre-insulated pipes make for a quick and economical solution for the installer. The assortment also provides for the installation of a pipe-in-pipe hot water circulation system. With almost 500 articles, Geberit FlowFit offers a professional solution for virtually every construction task and situation.

CORRECT POSITION EVERYTIME

The lateral pressing point can be continuously rotated and optimally aligned to suit the processor. This makes it possible to work safely and effortlessly even in hard-to-reach installation locations.

PRESSING EVEN IN TIGHT CONSTRUCTIONAL SITUATIONS

It is no longer essential to fully enclose the pipe during the pressing process, as the tool only has to be applied to the laterally positioned pressing indicator. This makes it easy to work safely even in corners or narrow places.

GEBERIT DRAINAGE SYSTEMS

SOLUTIONS FOR **WASTE WATER**

GEBERIT HDPE
ROBUST RESISTANCE NO MATTER WHAT

Massive temperature changes, aggressive waste waters and soils, pressure shifts and chemical influences: when high resistance is required in drainage technology, Geberit HDPE is the ideal system, fulfilling all the relevant standards.

- Large range of products and wide range of dimensions
- High temperature and chemical resistance
- Robust and shockproof
- Various connection options
- Fully welded system

GEBERIT PLUVIA
ROOF DRAINAGE WITH NEGATIVE PRESSURE

Geberit Pluvia drains roofs efficiently and reliably even under the heaviest rainfall. Because significantly less product material and space is required for siphonic roof drainage than for conventional systems, free space is opened up. More design freedom in planning, higher profitability during installation and in operation: good reasons to opt for Geberit competence. Through tried-and tested technology, innovative details and comprehensive service, Geberit Pluvia has been setting new standards for many years.

- Fewer roof outlets
- Fewer underground pipe connections needed
- Smaller pipe diameter
- Self-cleaning system
- No slope so no loss of space

FIRE PROTECTION
RELIABLE PROTECTION AGAINST FIRE SPREAD

Wall and ceiling openings as well as installation ducts can make it easier for fires in buildings to spread if they are not sealed in a proper standard-compliant way. The Geberit fire protection sleeve RS90 Plus EN seals the pipe opening in case of fire and prevents smoke, fire and heat spreading to other rooms or parts of the building. The fire protection sleeve RS90 Plus EN can be used with all Geberit drainage systems.

- Fire protection products for a high level of safety
- Reliable sealing of component openings
- Proof of fire protection for various constructional situations


GEBERIT
GEBERIT
GEBERIT

GEBERIT TOOLS FOR PRESSING SYSTEMS

STRONG FOR RELIABLE **PRESSING OPERATIONS**

Low weight, faster work and convenience: this is what the Geberit pressing tools have to offer. Alongside the Geberit pressing collars with snap mechanism and the maintenance-free Geberit pressing jaws, Geberit tools ensure quick processing and a reliable connection when installing supply systems.

CONVIENIENT PROCESSING

The Geberit pressing tools are compact, lightweight and provide a high level of convenience. Their easy handling and low weight are particularly noticeable when performing overhead work.

EFFECTIVE WORK

The battery-operated Geberit pressing tools are fitted with modern lithium-ion batteries. Thanks to the long battery running time, the Geberit pressing tools require charging less often and, due to short charging times, they can be put back into operation more quickly.

DIGITALLY CONNECTED

The Geberit pressing tools ACO 103plus, ACO 203plus and ACO 203XLplus each have a Bluetooth® interface for the NovoCheck app, which can be used to read out device information and pressing documentation.

NO MAINTENANCE THROUGHOUT THE ENTIRE SERVICE LIFE

High pressing performance without the need for external maintenance: the maintenance-free Geberit pressing jaws ensure a balanced distribution of force which lasts throughout the entire service life.

FOR LARGE DIMENSIONS

Regardless of how the pipes are aligned, these are held firmly onto the press fitting by a snap mechanism in the Geberit pressing collars, thereby ensuring easy and reliable handling.

↑
Integrated LEDs ensure good visibility in dark corners.

↑
Geberit PowerTest enables easy checking of the jaw's condition.

↑
For larger Mapress diameters, pressing collars are used.

SOLUTIONS FOR PIPING AND INTERIOR OUTFITTING

GEBERIT **SHIPBUILDING**

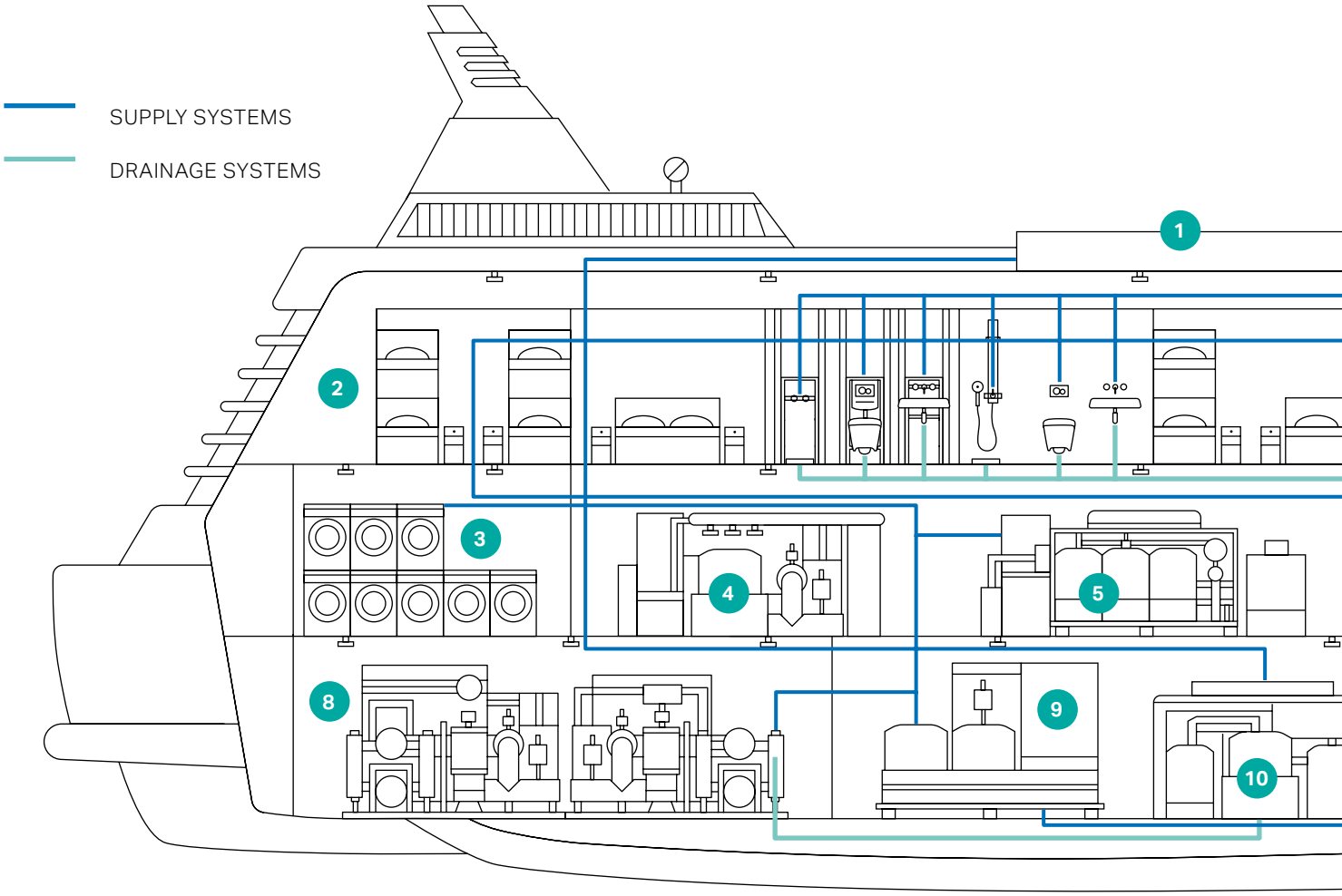
Modern ships and offshore installations make high demands on the materials from which they are manufactured. Geberit provides cutting-edge reliable, durable and installation-friendly piping systems for sanitary, machinery and safety systems as well as sanitary equipment at the highest level of design and ease of assembly for interior outfitting. Made for applications ranging from harsh conditions to luxury interiors: quality and longevity is our promise.

SUPPLY SYSTEMS

Geberit delivers the solutions that allow its functions to work reliably and consistently. Potable water, heating, cooling, firefighting, seawater, gas, compressed air and other media: Geberit supply systems for shipbuilding provide the confidence your customers expect from you.

DRAINAGE SYSTEMS

Geberit drainage systems use gravitation and vacuum principles to ensure reliable drainage of greywater and black water. The PP and PE plastic pipes are much lighter than the pipes used in conventional systems and can be easily fitted or welded with secure results.



1 POOL
2 CABIN AND PASSENGER AREAS
3 LAUNDRY
4 SPRINKLER AND FIRE-EXTINGUISHING SYSTEMS
5 AIR-CONDITIONING SYSTEM COOLING WATER
6 HEATING
7 POTABLE WATER
8 ENGINE ROOM
9 SERVICE WATER
10 SEAWATER
11 WASTE WATER

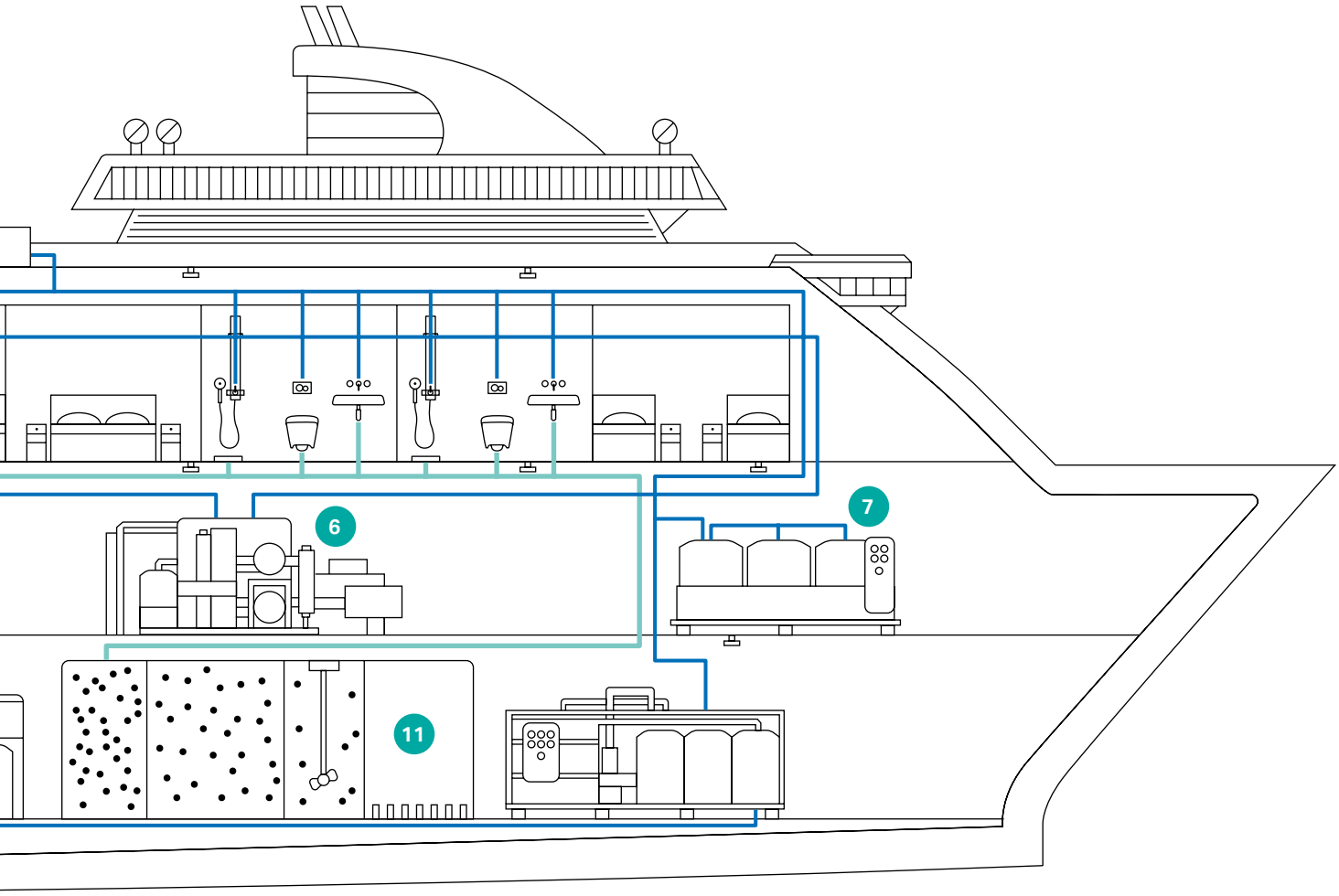
SEAL RING APPLICATIONS

GEBERIT MAPRESS SEAL RING

APPLICATION	Inert gases	Compressed air	Antifreeze	Refridgerant (Freon)	Lubricant	Mineral oils SAE	Oil-water emulsions	Extinguisher pipes	Sprinkler systems	Bilge water	Sea water	Demineralised water	Process water	Coolants	Potable water
CIIR - black	■	■ ■	■ ■ □					■ ■	■ ■		■	■ ■	■ □ ■	■ ■ ■	■ □
FKM - blue		■ ■	■ ■		■ ■	■ ■	■ ■		■		■				
HNBR - yellow				■											
EPDM - black		■									■				■

■ Geberit Mapress Stainless Steel □ Geberit Mapress Copper ■ Geberit FlowFit ■ Geberit Mapress Carbon Steel ■ Geberit Mapress CuNiFe

Maximum operating pressure, see Vd-TÜV admission table



INSTALLATION SYSTEMS

Geberit installation systems offer a variety of flexible options for configuring and installing ceramic sanitary appliances plus supply and discharge pipes, and are easy, fast and safe to handle.

CERAMIC SANITARY APPLIANCES

Geberit ceramic sanitary appliances come in a whole range of designs from simple to opulent, and can be used in anything from high-end bathrooms on yachts and cruise ships to straightforward wet units on freight ships and offshore accommodation modules.

ALWAYS WELL SUPPLIED

GEBERIT **SUPPLY SYSTEMS**

Supply pipes must carry out a wide range of tasks in shipbuilding and offshore and meet complex requirements with respect to safety and hygiene. They transport fluids safely to their point of use and must satisfy the highest safety standards in special applications. The variety of Geberit supply system ensures you will find the ideal and economical solution for your specific requirements in your shipbuilding and offshore projects.

GEBERIT MAPRESS

From potable water supply to complex marine piping systems – Geberit Mapress metallic pressing systems promise a wide range of applications. They offer highly effective supply systems which can be used for diverse media.

GEBERIT FLOWFIT

The Geberit FlowFit multilayer pipe and pressing system is ideal for potable water, heating and air-conditioning applications. It can be processed quickly and is inherently stable, flexible and resistant to pressure and corrosion.

FROM LEFT:

→ Geberit Mapress Copper
Available in dimensions:
12mm - 108mm

→ Geberit Mapress Carbon Steel
Available in dimensions:
12mm - 108mm

→ Geberit Mapress Therm
Available in dimensions:
12mm - 108mm

→ Geberit Mapress Stainless Steel
Available in dimensions:
12mm - 108mm

→ Geberit Mapress CuNiFe
Available in dimensions:
15mm - 108mm

FIND OUT MORE
geberit.co.uk/industry

SAFE SYSTEMS FOR
GRAVITY AND VACUUM DRAINS

GEBERIT **DRAINAGE SYSTEMS**

Geberit drainage systems use gravitation and vacuum principles to ensure reliable drainage of greywater and black water. The PP and PE plastic pipes are much lighter than the pipes used in conventional systems and can be easily fitted or welded with secure results.

GEBERIT HDPE
The Geberit HDPE drainage system delivers optimum performance. The system pipes and fittings are easily welded and guarantee high mechanical strength and absolute water tightness. Geberit HDPE is ideal for prefabrication.

REASONS FOR GEBERIT HDPE:
- Impact-resistant and highly flexible
- Completely leakproof
- Wide range of diameters
- Easy to prefabricate off-site

GEBERIT SILENT-PP
The Geberit Silent-PP is a sound optimised pipe system. The plug-in system installs easily and quickly, and thus also economically.

REASONS FOR GEBERIT SILENT-PP:
- Economic piping system
- Hydraulically optimised for high drainage capacity
- Simple push-fit connection
- High ring stiffness and leakproof materials
- Low linear expansions
- Wide range of diameters

FIND OUT MORE

geberit.co.uk/silentpp
geberit.co.uk/hdpe

FUNCTIONAL AND DESIGN-DRIVEN
FOR BATHROOMS AND WET-UNITS

GEBERIT **SANITARY PRODUCTS**

Geberit offers solutions to fulfil the different needs for bathrooms and wet-units in shipbuilding and offshore. High quality with focus on simplicity, functionality and longevity combined with design for bodily well-being.

GEBERIT CERAMICS

Geberit offers a huge variety of ceramic products either in simple design for wet room on ferries, cargo ships and offshore accommodation modules or in sophisticated, more visually appealing design for luxury on yachts and cruise ships. Most of the products can be finished with Geberit KeraTect special glaze. The special glazing ensures many years of ceramic surface protection.

GEBERIT AQUACLEAN

Geberit AquaClean is the solution for comfort and the feeling of freshness and cleaniless in the bathroom. Geberit AquaClean shower toilets combine timeless elegance of design with highest quality materials.

GEBERIT FLUSH PLATES

Reliable and attractively designed, Geberit flush plates come in different styles, flush options, colours and finishes to complement all kinds of domestic bathroom and public toilet decor. They offer functionality that will withstand years of repeated actuation.

Geberit also offers remote flush actuation which can be the best solution in many construction situations.

GEBERIT URINALS

In public and semi-public areas, safe and reliable operation of urinal systems is particularly important. All urinals from Geberit are therefore designed to achieve a high degree of functional reliability.

- → Easy maintenance
- → Water-saving
- → For mains, battery or self-sustaining operation
- → Waterless operation possible

GEBERIT CISTERNS

Today, developing flushing systems is all about ensuring clean flushing out, saving water, creating an appealing look, providing customised functions and keeping operation pleasantly quiet. Geberit products and systems deliver all these aspects to the very highest standards and are a byword for outstanding quality across the globe. Over the past 50 years and more, millions of them have been installed in locations worldwide.

GEBERIT TAP SYSTEM

The Geberit tap system provides functional reliability, particularly in highly frequented areas, combined with elegant design:

- → Easy maintenance
- → Water-saving
- → Very hygienic
- → Vandal-resistant
- → For mains or battery operation

GEBERIT DUOFIX

Geberit Duofix is a statically load-bearing element that offers a range of options for configuring and securely fastening cisterns, toilets and washbasins. It is easy to handle, making it quick to install.

INDUSTRY
CASE STUDIES

PIPEKIT SUPPLIES GEBERIT FLOWFIT TO THE SOUTH WEST'S PREMIER PRODUCER OF WILD CAUGHT SEAFOOD

→ PROJECT INFORMATION

Location: The Winter of Ladram Vessel

Project Completion: 2023

→ GEBERIT KNOW-HOW

Challenge: To improve the water quality of the vessel's holding tank to maximise the life and freshness of the shellfish when still at sea

Solution: Geberit FlowFit was installed alongside a new air pump to create a superior aerating systemsleek bathroom

→ PROJECT OVERVIEW

Pipekit has recently supplied family-owned fishing company, Waterdance, with the innovative Geberit FlowFit pipe system to meet the individual needs of the producer's latest vessel, the Winter of Ladram.

The Winter of Ladram, operating across the South West, is a 21-metre crabber, and the Waterdance company was looking to improve the water quality of the vessel's holding tank to maximise the life and freshness of the shellfish when still at sea. Pipekit worked alongside the Waterdance team to advise on and supply Geberit FlowFit, as part of the bespoke pipe solution required, and Geberit FlowFit was specifically selected due to its innovative jointing system and simple installation process.

Part of the Greendale Group, Waterdance owns over 20 boats in Devon and Cornwall, and part of its strategy is to continually modernise its fleet to ensure the best quality of fish is sustainably caught and sold. The multi-layer Geberit FlowFit system, in 32mm and 63mm sizing, was installed in the Winter of Ladram's Vivia tank, an existing shellfish sea water tank, alongside a new air pump to create a superior aerating system. Holes were drilled into the Geberit Flowfit pipework, designed to run down the frames of the water tank, and to aerate the water in the tank. Not only helping to improve the life and freshness of the shellfish but just as significantly, allowing the crew to enter shallow harbours without fear of dragging up dirty muddy water into the Vivia tank.

→ WHY GEBERIT?

The Geberit FlowFit system was selected due to ease of installation, reducing the constraints of working in a small space and optimising the quality of water supply. The simplicity of the system offers significant reduction in installation times, which was particularly favourable for the fishing company to ensure the vessel would be back in the water as quickly as possible. As it is not essential to fully envelop the pipe during the pressing process of Geberit FlowFit, it makes it easier to work safely in space restricted situations, which was ideal for working on the tight constraints of the Winter of Ladram. Plus, the flow optimised design of Geberit FlowFit results in minimal pressure losses, which means it can be designed with smaller diameters and helps offer shorter draw off times, reduced water volumes and less stagnation in the pipe. All big plusses for ensuring sustainable fishing methods and high-quality standards are met for the Winter of Ladram crew.

→ DELIVERING THE SOLUTION

Commenting on the installation Ollie from Waterdance said: "We had budgeted two days to refit the sea water tank and improve its water quality, so we were delighted when we completed it in a day. The press fit technology of Geberit's FlowFit system was very impressive, being both quick and easy to install, and allowing us to complete the new aerated system ahead of time. Saving a day in installation allowed the Winter of Ladram to be back at sea a day earlier than expected which for our operation is priceless. We will certainly be using Geberit FlowFit and the services of Pipekit for other Waterdance vessels in the future".

For further information on Pipekit, visit **www.pipekit.co.uk**. Pipekit stock and supply various leading pipework systems and drainage solutions and offers a dedicated sales and customer service team to support customers across a range of sectors.

GEBERIT MAPRESS
RELIABLE PIPING FOR TAILORED FUEL DISTRIBUTION

→ PROJECT INFORMATION

Location: Lichfield, Staffordshire

Project Completion: September 2023

→ GEBERIT KNOW-HOW

Challenge: A reliable pipework system was needed to dispense diesel and AdBlue

Solution: Geberit Mapress Stainless Steel allowed for a tailored fuel distribution, ensuring a substantial supply of up to 500 litres per minute through the pipework to accommodate the needs of large vehicles and machinery on the site

→ PROJECT OVERVIEW

Premier fuel storage solution providers, OTS Group, supplied two storage tanks to meet the demand for a robust fuel system for heavy-duty machinery at the HS2 construction site near Lichfield, Staffordshire.

A pipework system was needed to dispense diesel and AdBlue, a solution designed to help diesel vehicles meet the latest Euro 6 exhaust emission regulations, from the storage tanks to fuel construction transport on-site, such as cranes, machinery and lorries. OTS Group needed to find a reliable partner to supply quality pipework to connect the fuel storage tanks to the dispensers.

→ SOLUTION

Collaborating with Geberit, OTS Group used Geberit Mapress at the high-speed railway construction site. The press-fit piping system's adaptability in different sizes and diameters allowed for a tailored fuel distribution, ensuring a substantial supply of up to 500 litres per minute through the pipework to accommodate the needs of large vehicles and machinery on the site.

The use of stainless steel components and a diverse range of fittings facilitated a compact, durable and reliable installation. Using a press-fit system ensured a secure, maintenance-free network, eliminating fuel leak risks that are associated with traditional threaded systems.

→ RESULTS

Geberit Mapress provided a reliable system from the fuel storage tanks to the fuel dispensers which helped day-to-day work on-site run efficiently for the HS2 construction workers. Both OTS Group and HS2 were happy with the final result, and praised the uniform nature, clean bends and appearance of the installation.

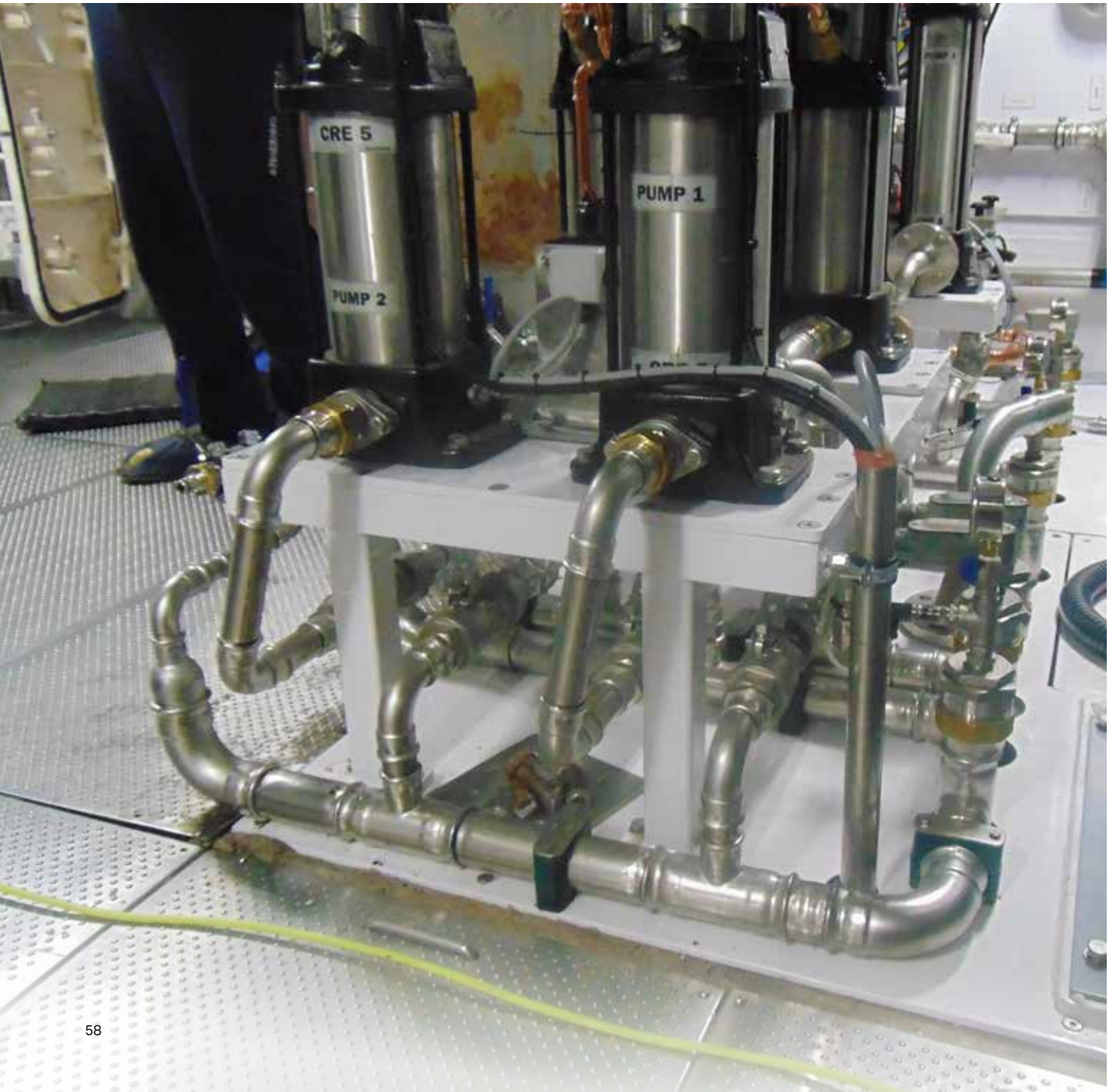
Neil Betteridge, Project Director at OTS Group, said:

"THE GEBERIT MAPRESS INSTALLATION PROCESS DELIVERED A LEAK-FREE, DEPENDABLE SOLUTION, WITH A SLEEK DESIGN THAT NOT ONLY ENHANCED AESTHETICS BUT MADE FOR AN EFFICIENT PIPEWORK SYSTEM."

"With a 25-year guarantee*, Geberit Mapress stands out for its longevity, robustness and low-maintenance approach. It sets the bar for efficient and reliable pipework in fuel distribution systems."

*Standard manufacturer's guarantee is 10 years. Longer guarantees may be agreed subject to conditional criteria.
Contact your local Geberit Technical Sales Manager for more information.

INNOVATIVE PIPING SOLUTIONS: A SUPERYACHT WITH GEBERIT MAPRESS ONBOARD



→ PROJECT INFORMATION

Location: Pendennis Shipyard

Project Completion: April 2023

→ GEBERIT KNOW-HOW

Challenge: To refit the piping system in a superyacht; an unconventional environment which presents challenges due to the lack of straight lines. In addition, the various piping applications require different materials.

Solution: A reliable press-fit piping solution with a simple and flexible installation method. Used in stainless steel, copper and CuNiFe for a variety of applications.

→ PROJECT OVERVIEW

Pendennis Shipyard, renowned for its expertise in refitting, restoring and custom-building superyachts, collaborated with Geberit to successfully integrate Geberit's Mapress piping system into a high-end superyacht project.

Established in 1988 in Falmouth, Pendennis Shipyard has grown to become a globally renowned company known for handling a diverse range of refit programmes as well as one-off custom-built sail and motor yacht projects.

This project involved various stages including gutting the interiors, performing hot works such as fabrication and steelwork, painting, and the installation of new pipework. Unlike conventional installations, boats often lack straight lines, presenting a complex arrangement. To address this challenge, Pendennis Shipyard sought a quality, easy to install solution. With applications ranging from potable water and tank suctions to vent pipework and transit corridor pipework, the shipyard required an efficient, reliable and top-tier piping system.

→ WHY GEBERIT?

The Geberit Mapress press-fit system was used in stainless steel, copper and CuNiFe across the superyacht project. Under the right conditions, CuNiFe can last well over 30 years and is particularly suited to saltwater applications thanks to its high level of corrosion resistance. Compare this to galvanised steel, the usual material used in marine environments which can corrode and deteriorate within a few years of exposure to saltwater, and CuNiFe is an ideal solution.

Mapress offers a faster and more cost-effective installation approach compared to conventional methods that involve hot works, soldering and threading. The process is straightforward: cut the pipe to the required length, deburr the pipe edges inside and outside, indicate the socket depth on the pipe, insert the pipe into the fitting's socket, and finally, secure the joint and connecting pipe using the pressing tool.

In addition, Mapress provides absolute reassurance with Geberit's all-inclusive technical support and a standard 10 year guarantee.

→ DELIVERING THE SOLUTION

Pendennis Shipyard, said: "Boat piping installations are often complex due to the lack of straight lines. Geberit's Mapress system simplified this challenge. The press-fit method ensured secure connections, reducing errors during installation.

"HAVING USED GEBERIT MAPRESS IN NUMEROUS PROJECTS, IT'S OUR PREFERRED PIPEWORK SYSTEM. GEBERIT HAS THE ADVANTAGES OF EASY INSTALLATION, DURABILITY, RELIABILITY AND EXCELLENT TECHNICAL SUPPORT."

GEBERIT MAPRESS GAS ENSURES AN EASY INSTALLATION AT LINCOLNSHIRE FOOD FACTORY

→ PROJECT INFORMATION

Location: Lincolnshire food factory

Project Completion: November 2021

→ GEBERIT KNOW-HOW

Challenge: To update the existing welded gas main pipe that was undersized

Solution: Geberit Mapress Gas

→ PROJECT OVERVIEW

When pipework contractors MFL Mechanical were enlisted to replace the undersized gas main pipe in a Lincolnshire food factory, they had no hesitation in specifying Geberit's Mapress solution.

→ WHY GEBERIT?

Impressed by the quality of the pipework, MFL Mechanical chose Mapress for its reliable connections, ease and flexibility of installation, and the added confidence of Geberit's technical support and 25-year warranty.

With no hot works, no soldering and no threading, Mapress is both quicker and cheaper to install than traditional jointing methods. Installers simply need to cut the pipe to size, debur the inside and outside, mark the socket insertion depth on the pipe, push the pipe into the socket of the fitting, then press the joint and connecting pipe using the pressing tool.

MFL Mechanical's site team also benefitted from coloured pressing indicators which are fitted in the seal rings, which offer easy identification of both the material and any unpressed joints during the installation process.

If that's not enough, Mapress offers complete peace of mind thanks to Geberit's comprehensive technical support, 800˚C fire endurance rating and 25-year warranty.

→ DELIVERING THE SOLUTION

Greg Smith, Operations Director for MFL Mechanical, said: "The existing welded mild steel gas main pipe was undersized and the customer originally proposed a prefabricated steel solution, but it soon became clear that Mapress would be the better option.

"Our only access to the roof void was a vertical ladder around eight metres high and the logistics of prefabricating pipework then getting it up to the roof void wouldn't be practical. Mapress also enabled us to avoid hot works on site too.

"We used 88.9mm Mapress stainless steel 316, piped from the service vale at low level up the required points. Once the gas main was live we also did switchovers to connect the various appliances.

"MAPRESS ALLOWED US TO INSTALL QUICKER, WITH NO HOT WORKS AND COMPLETELY RELIABLE CONNECTIONS THANKS TO THE GAS FITTING YELLOW SEAL RINGS INCLUDED."

GEBERIT MAPRESS PIPES OFFER A SOPHISTICATED FUEL PIPING SOLUTION AT TRUCK STOP

→ PROJECT INFORMATION

Location: Southampton

Project Completion: September 2020

→ GEBERIT KNOW-HOW

Challenge: Sophisticated pipework system required for the supply of fuel

Solution: Geberit Mapress

→ PROJECT OVERVIEW

Unmanned 24/7 truck stops require sophisticated pipework to efficiently and correctly deliver and monitor the supply of fuel.

Using different materials which may need a variety of fitting methods can add significant time to the installation job, which is why Geberit's Mapress press fit pipes and fittings proved to be the perfect solution for above and below ground fuel pipes at Certas Energy's 24 hour HGV refuelling truck stop in Southampton.

As experts in the fuelling business, Certas Energy's Southampton facility allows up to eight HGVs to fill up simultaneously, using high-speed pumps that fill 120 litres of fuel per minute. Multiple above and below ground pipes offer a selection of fuels, including diesel, gas oil, AdBlue and Shell GTL.

Contractor OTS Group Ltd, a leader in delivering advanced fuel storage systems, was awarded the contract to provide full M&E works covering the supply and installation of all above and below ground fuel pipelines. This amounted to approximately 1km of pipework, along with the supply and installation of tank monitoring and PLC operational/environmental controls.

The fuel dispensing system featured submersible pumps serving Gilbarco MPD dispensers, located on remote fuel islands, supplied and installed by OTS Group.

→ WHY GEBERIT?

OTS Group designed the fuel delivery system based on tried and tested technology provided by Geberit Mapress Stainless Steel products. This was borne out by OTS Group's decision that all above ground pipelines installed by OTS Group would feature Mapress Stainless Steel, a decision made three years ago to great success.

Building on an existing relationship with the contractor, Geberit was able to supply a single solution for all uses which combined speed of installation with operational benefits for the client.

The Mapress press fit technology is quicker and cheaper to install than traditional jointing methods because it requires no hot works, no soldering and no threading. Installers simply need to cut the pipe to size, debur the inside and outside, mark the socket insertion depth on the pipe, push the pipe into the socket of the fitting, then press the joint and connecting pipe using the pressing tool. Coloured pressing indicators are fitted in the seal rings, which offer easy identification of both the material and any unpressed joints during the installation process.

→ DELIVERING THE SOLUTION

Steve Gain, Managing Director at OTS Group, said:

"GEBERIT MAPRESS PRESS PIPES AND FITTINGS WERE THE OBVIOUS CHOICE FOR THIS PROJECT, ENABLING US TO COMPLETE THE JOB EFFICIENTLY FOR OUR CLIENT, YET STILL MAINTAIN THE VERY HIGHEST OF STANDARDS."

"Having used Geberit Mapress technology previously, I'm very familiar with its benefits and it's a no brainer for us to use on projects of this kind – even before you factor in the excellent support we receive from the team at Geberit when it's needed."

Geberit Mapress is available in range of materials including carbon steel, copper, stainless steel, and CuNiFe.

GEBERIT MAPRESS
SAVING TIME AND IMPROVING STANDARDS FOR FIRE SUPPRESSION SYSTEMS

→ PROJECT INFORMATION

Location: LNG Facility

Project Completion: December 2020

→ GEBERIT KNOW-HOW

Challenge: Piping systems for various applications. For Fire Suppression Installations

Solution: Geberit Mapress Stainless Steel Marine grade. And Carbon Steel inc fittings and valves

→ PROJECT OVERVIEW

Based in Quarrington, Lincolnshire, Fire Shield Systems Ltd is recognised as one of the leading fire protection installers of fixed automated, local and vehicle fire suppression systems in the UK. The company offers a full range of fire protection products using leading technologies within its field of expertise including supply, installation, and maintenance of installed and adopted systems.

The Head Office is the hub for the collective design, package supply of all available suppression systems including leading technologies in automatic control, sophisticated detection and externally monitored systems.

Fire Shield Systems knows that is crucial to minimise the labour time and cost of systematic piping and valving installation in order to be able to offer systems within the customer scope and budgets. With Geberit, it can achieve this without any compromise on quality.

→ WHY GEBERIT?

Available in a range of materials including copper, stainless steel, CuNiFe and carbon steel, the Geberit Mapress pressing solution offers quicker installation and a cleaner, neater job, with no need for hot works.

It is designed so that any connections not pressed during installation can be visibly detected during testing. The pressing indicator consists of a thin plastic foil encasing the pressing shoulder, which gives a visible indication of a pressed joint as the foil is removed during correct installation.

With no hot works and therefore no subsequent cooling down period, Fire Shield engineers can fit pipework easier and quicker within the tight confines of an internal / external system or pumphouse with great reliability and efficiency.

Crucially, press fit systems have been proven to take 30% less time to install than their traditional counterparts according to a BSRIA report, helping reduce the cost of jobs by approximately 27% compared with screwed steel pipework.

It's easy to see why Mapress has become the pipe fitting solution of choice across all aspects of Fire Shield Systems Ltd projects.

→ DELIVERING THE SOLUTION

The Geberit range offers a solution for every requirement, whether a complete or integrated supply system, with guaranteed quality for complete confidence when handing over high-end products to a client.

All Fire Shield Systems Ltd projects comprise of the Geberit piping supply solution, backed by the invaluable Geberit support network when required on a technical or supply basis.

Nathan Dolby, Project Manager at Fire Shield Systems Ltd, said:

"GEBERIT MAPRESS HAS A GREAT SELECTION TO CHOOSE FROM WITH EASE OF INSTALLATION REDUCING VALUABLE LABOUR HOURS BACKED BY A QUALITY PRODUCT WITH AN IMPRESSIVE SUPPLY CHAIN".

GEBERIT MAPRESS
THE PERFECT SOLUTION FOR MULTIPLE APPLICATIONS IN A FACTORY SETTING

→ PROJECT INFORMATION

Location: Whittlesford, Cambridgeshire

Project Completion: November 2020

→ GEBERIT KNOW-HOW

Challenge: A complex system of pipework is required for various uses in new manufacturing plant

Solution: Geberit Mapress

→ PROJECT OVERVIEW

Manufacturing facilities often require a complex system of pipework suitable for the supply of various services including hot and cold water, compressed air and other specific industrial lines. Using different materials which may need a variety of fitting methods can add significant time to the job, which is why Geberit's Mapress press fit pipes and fittings proved to be the perfect solution for a range of industrial uses at a new factory unit in Whittlesford, Cambridgeshire.

As specialists in the manufacture of contact lenses and cataract lenses, Peterborough and Cambridge Business Development needed a piping product that would be suitable for chilled water, low temperature heating water, compressed air, nitrogen lines, vacuum lines, mains cold water and pressure relief lines; a complex system of pipework required for various uses in its new facility.

It tasked local contractor Graham Day of GD Pipeworks with specifying the correct solution, who turned to Geberit Mapress Stainless Steel 316 pipe and fittings, with press fitting for quicker, easier and more reliable connections.

→ WHY GEBERIT?

Building on an existing relationship with the contractor, Geberit was able to supply a single solution for all uses which combined speed of installation with operational benefits for the client.

The Mapress press fit technology is quicker and cheaper to install than traditional jointing methods because it requires no hot works, no soldering and no threading. Installers simply need to cut the pipe to size, debur the inside and outside, mark the socket insertion depth on the pipe, push the pipe into the socket of the fitting, then press the joint and connecting pipe using the pressing tool. Coloured pressing indicators are fitted in the seal rings, which offer easy identification of both the material and any unpressed joints during the installation process.

GD Pipeworks specified Stainless Steel 316 pipes and fittings with black CIIR seal rings, a reliable all-rounder with high corrosion resistance and high mechanical strength for pressure lines, ensuring it is suitable for all required applications in the new facility.

→ DELIVERING THE SOLUTION

Graham Day from GD Pipeworks said:

"STAINLESS STEEL 316 WAS THE OBVIOUS CHOICE FOR THIS JOB BECAUSE OF THE DIFFERENT APPLICATIONS AND I KNOW GEBERIT MAPRESS WELL, HAVING USED IT FOR MANY YEARS."

"It is quicker to install, safer on site because there is no need for hot works and always reliable. Crucially, it's also available from 15mm up to 108mm diameter which meant it was suitable for all uses in the factory. I had already used Mapress for this particular customer on another job so he knew the benefits too."

"When I quoted for this job it also came out cheaper than another quote from another supplier using a different system, because of the savings that can be achieved through quicker installation on site."

Geberit Mapress is available in range of materials including carbon steel, copper, stainless steel, and CuNiFe.

Geberit Sales Ltd
Geberit House
Edgehill Drive
Warwick
CV34 6NH

T 01926 516800
E enquiries@geberit.co.uk

Literature: 0800 007 5133

www.geberit.co.uk/industry

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