GEBERIT

EVERYTHING MEPLA

KNOW HOW INSTALLED

AT GEBERIT, WE USE OUR PASSION FOR DESIGN AND TECHNOLOGY TO DELIVER CONTEMPORARY, HIGH QUALITY SOLUTIONS THAT TRANSFORM EFFICIENCY, INCREASE SAFETY AND ENHANCE LIVING AND WORKING ENVIRONMENTS.

As a European market leader in sanitary technology and innovation, we apply our vast Know-How and over 150 years of experience to everything we do. With our continuous focus on research and development, we introduce progressive, pioneering and fully integrated products to market year after year.

By listening to our partners, nurturing relationships and thinking ahead, we are able to constantly update and develop our offering, creating user-friendly, globally renowned solutions and building lasting partnerships founded on mutual trust and values.

GEBERIT VALUES
OUR VALUES. OUR COMMITMENT TO YOU.

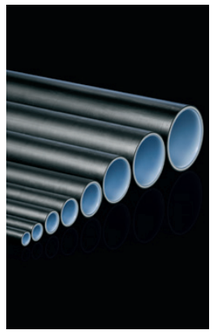
KNOW-HOW
We use our experience and technical expertise to create solutions that make a real and lasting difference, delivering advanced training through our worldwide academies.

INNOVATION
Every new development is based on solid research and the latest innovations. The quality of our R & D ensures that we stay ahead with our new technology.

PARTNERSHIP
Our customers are the focus of everything we do. We build better relationships by working together to discover more effective solutions.

RELIABILITY
We aim to create durable solutions by simplifying the complex and ensuring the safety and dependability of our products and systems throughout their life cycles.

QUALITY OF LIFE
Our intuitive products enhance modern living, by setting new standards in design and functionality. Our focus on water economy is part of our long-term contribution to the environment and society.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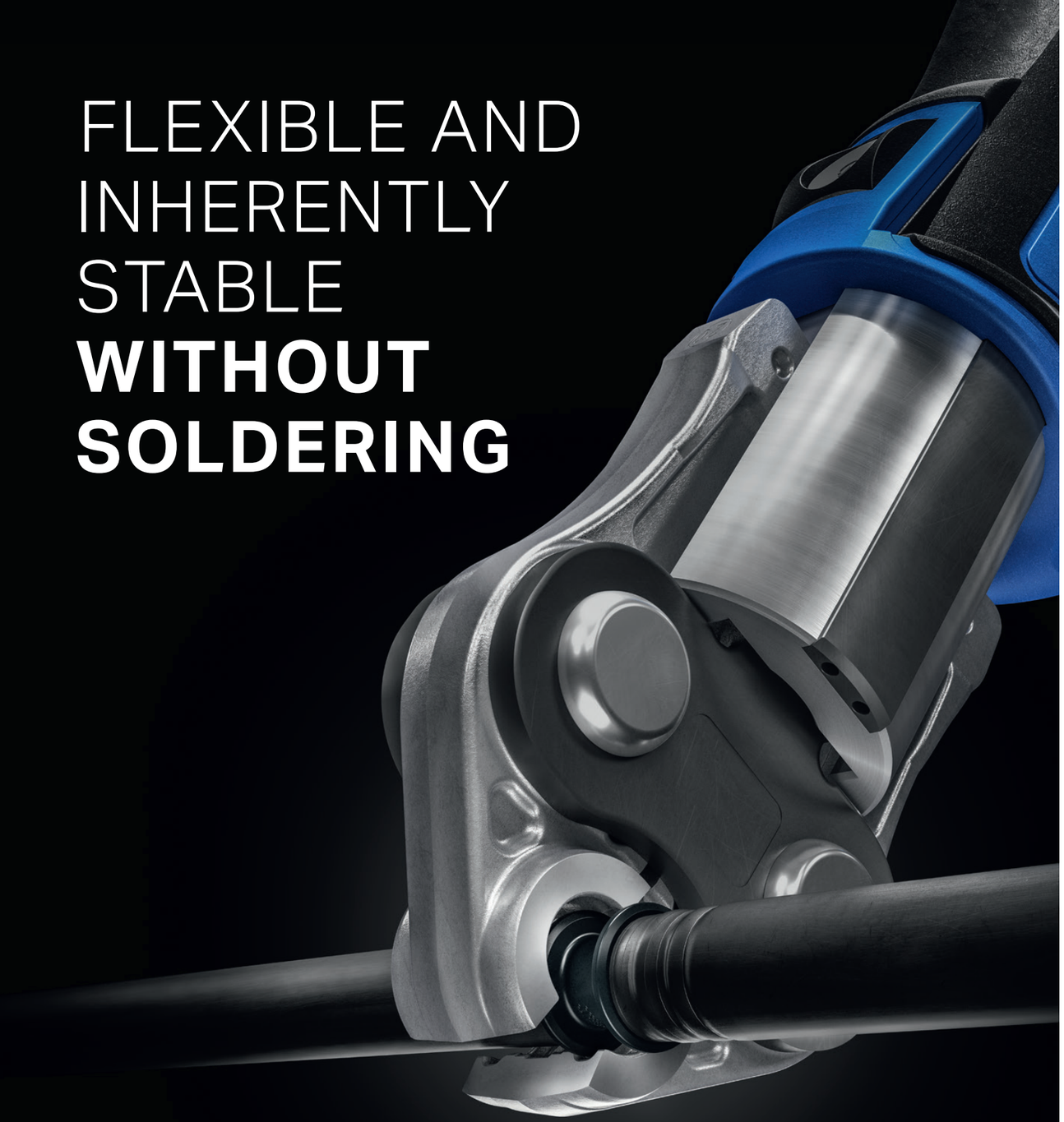
FLEXIBLE AND INHERENTLY STABLE **WITHOUT SOLDERING**



- **Flexible, bendable and yet inherently stable**
- **Clean, safe, easy to process**
- **Reliable press connection**
- **Quick and secure adapters to other systems such as Geberit Mapress**
- **97% recyclable when separated into aluminium and plastic**

The Geberit Mepla multilayer pipe system combines the advantages of metal and plastic.

This easy, reliable processing and a comprehensive range of pipe dimensions and fittings make Geberit Mepla a flexible, economical piping system. Geberit Mepla complies with all the necessary standards and regulations making it suitable for all relevant industrial and commercial applications.

Geberit Mepla is more corrosion-resistant and lighter than metal pipes and is more inherently stable and durable than plastic pipes. It can therefore be bent and processed easily and safely.

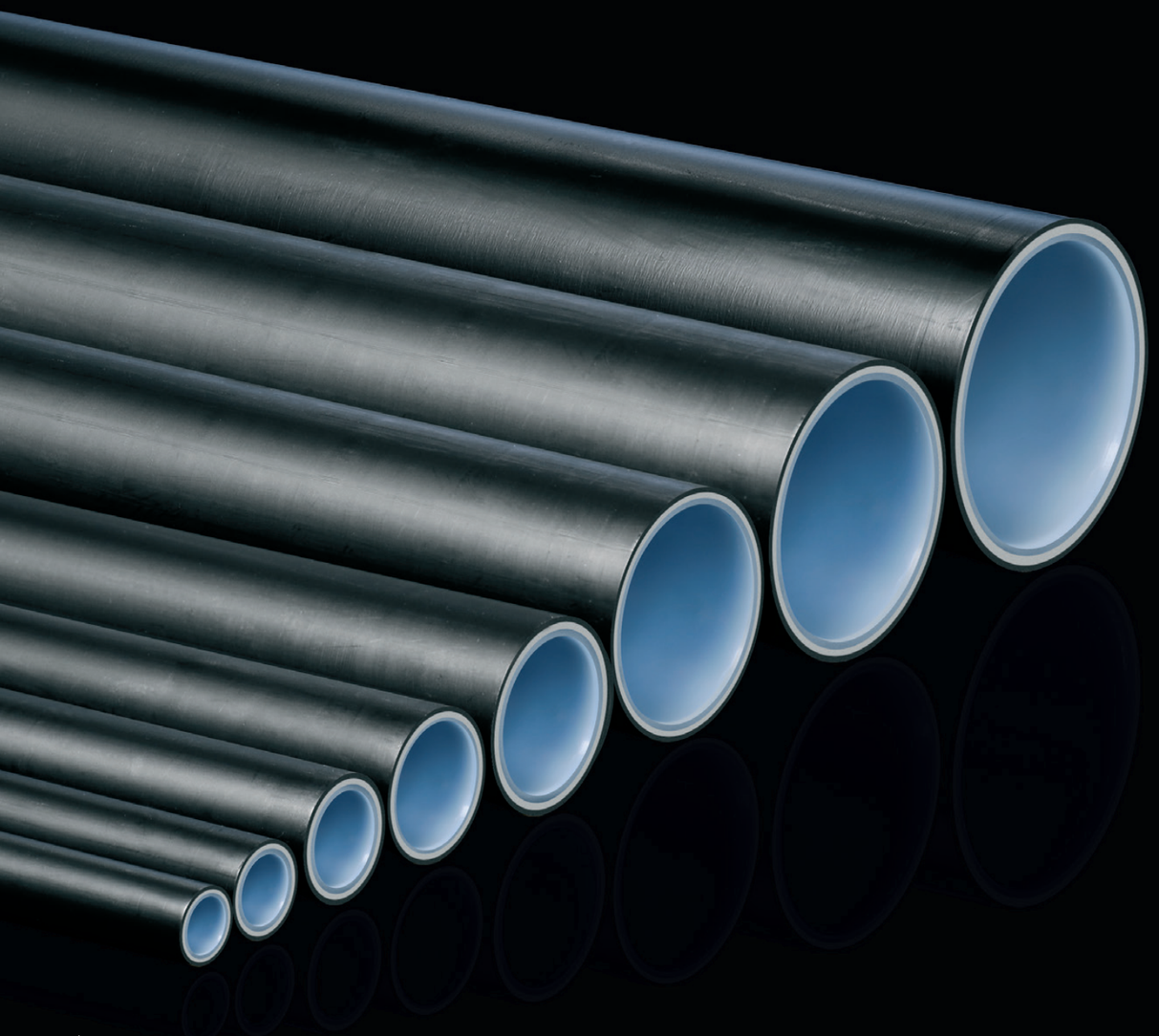
↑
PIPES AND FITTINGS FOR A WIDE RANGE OF APPLICATIONS

↑
MEPLA SYSTEM PIPES UP TO 20MM CAN BE BENT BY HAND WITHOUT DIFFICULTY

THREE LAYERS FOR DRINKING WATER AND HEATING

More corrosion-resistant and lighter than metal pipes, more inherently stable and robust than plastic pipes – easy and safe to process, Geberit Mepla combines the advantages of both types of pipe. Stable, bendable and able to form a barrier against diffusion, Geberit Mepla also remains leakproof when subjected to pressure far in excess of the maximum standard testing pressure of 1.1 MPa (11 bar). The outer plastic layer made of polyethylene (PE-RT of the second generation) protects against corrosion and mechanical damage. The central aluminium layer makes the pipe stable and bendable. The inner layer, which is likewise made of PE-RT, is corrosion resistant and food-safe. Geberit Mepla can therefore be used for all drinking water qualities without analysis.

THE GEBERIT MEPLA RANGE PROVIDES **A SOLUTION FOR ALL APPLICATIONS**



↑
PIPE DIMENSIONS FROM 16 TO 75MM

SAFE INSTALLATION OF DRINKING WATER AND HEATING

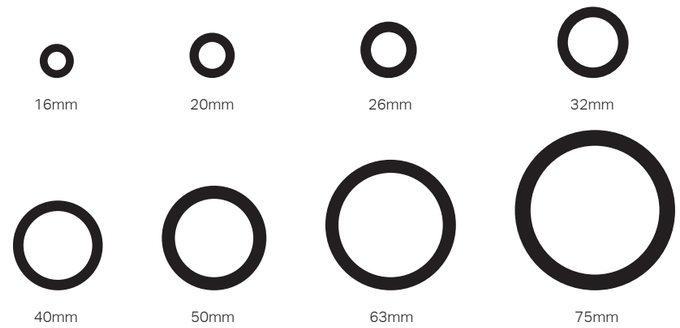
With Geberit Mepla, you only need one single system for the drinking water and heating supply.

Pipe dimensions from 16 to 75mm and a selection of around 300 fittings made of polyvinylidene fluoride (PVDF) and gunmetal offer a solution for almost any installation task. All pipe dimensions are permitted for use in the heating installation from 0 to 80 °C, in the drinking water installation from 0 to 70 °C and for operating pressures up to 1 MPa (10 bar).

Clever connections such as the cross fitting have proven their worth in day-to-day applications such as radiator connections for a connection to two parallel pipes without intersecting.

The Geberit MeplaTherm system pipe is the economical alternative for heating installations.

Pipes are supplied with or without pre-insulation. There are over 300 fittings to choose from, which are made of PVDF, gunmetal or brass which allows for flexibility within the system.



↑ 8 SIZES OF PIPE COVER MOST APPLICATION NEEDS

Geberit Mepla can be bent by hand up to 20mm and can be processed with hand operating pressing tools from 16 to 26mm.

THE ECONOMICAL SYSTEM

The Geberit Mepla Fix (Master Fix) adapter establishes quick connections to the Geberit sanitary systems. Special fittings simplify the transitions of Geberit Mepla to the metal Geberit Mapress systems.

GEBERIT MAPRESS
EASY TO HANDLE

↑
CUT

↑
BEND

↑
DEBURR AND CALIBRATE

↑
INSERT

↑
PRESS

FLEXIBLE, RELIABLE, SAFE AND EASY TO PROCESS

LEAKY IF UNPRESSED

Unpressed Geberit Mepla fittings leak visibly when subjected to leak tests with water. Water flows out of the unpressed connections. This occurs even at low water testing pressure and during leak tests at up to 15 bar. The pressure test cannot be completed successfully unless all the connections have been pressed.

VERSATILE AND ECONOMICAL IN INDUSTRY

The Geberit Mepla pressing system is used in the automotive, chemical, pharmaceutical and food and beverage industries for compressed air systems, vacuum systems, cooling systems, process and potable water pipes as well as heating. Geberit Mepla permits easy, reliable and flexible processing. It has high hygiene standards and is both reliable and permanently leakproof in operation.

THREE LAYERS FOR RELIABLE APPLICATION

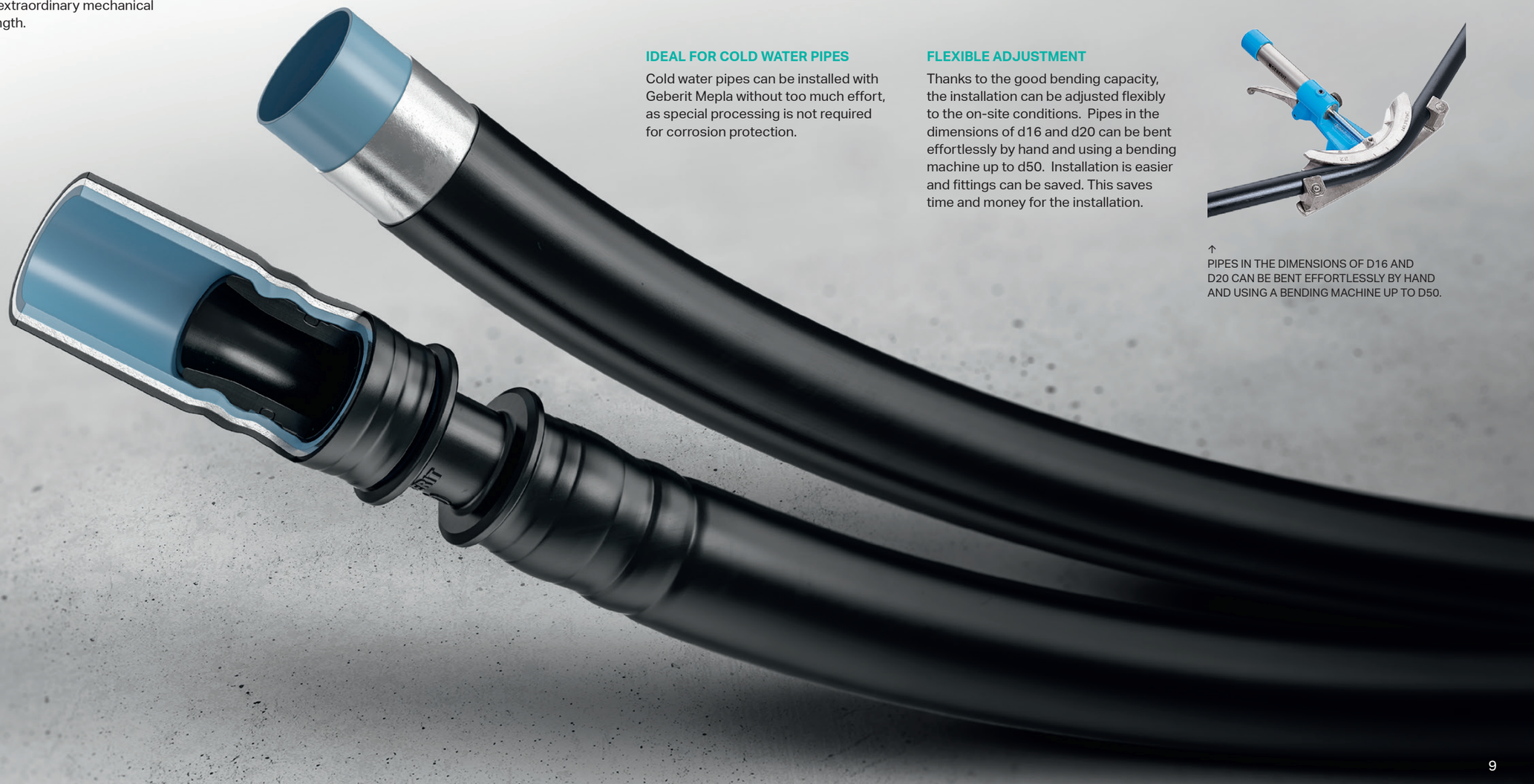
Geberit Mepla system pipes combine the quality advantages of both plastic and metal. The stabilising core comprising an aluminium pipe is surrounded on the outside by a protective coating of PE-RT, which provides protection against corrosion and mechanical loads. The central, longitudinally butt-welded aluminium layer makes the pipe stable, bendable and forms a barrier against diffusion. The inner layer of PE-RT is corrosion-resistant.

SAFETY FOR HIGH LOADS

The tremendous tensile strength of the Geberit Mepla press connection ensures a reliable, long-lasting connection. The quality of the press connection is monitored during manufacturing and exceeds the values demanded in the standards many times over. This guarantees a high standard of reliability, even in piping systems subjected to high loads.

HIGH SUSTAINABILITY

The relatively thick aluminium layer in Geberit Mepla multilayer pipes ensures a high level of sustainability and extraordinary mechanical strength.



SMOOTH SURFACES FOR MINIMUM ADHESION

The inner plastic layer of Geberit Mepla pipes, the high-quality PE-RT, has a surface roughness of only 0.7µm so it is more difficult for limescale and biofilm to adhere to the smooth surface.

HYGIENICALLY PERFECT

Geberit Mepla fittings and pipes have protective caps which facilitate hygienic safety when stored or during an installation break.

IDEAL FOR COLD WATER PIPES

Cold water pipes can be installed with Geberit Mepla without too much effort, as special processing is not required for corrosion protection.

FORMS A BARRIER AGAINST DIFFUSION

Oxygen cannot diffuse through the aluminium layer meaning that Geberit Mepla is an ideal solution for heating applications.

LARGE DIAMETER

Geberit Mepla is available up to a dimension of d75 and can therefore be used in a broad range of applications. Larger construction projects can be installed with Geberit Mepla.

FLEXIBLE ADJUSTMENT

Thanks to the good bending capacity, the installation can be adjusted flexibly to the on-site conditions. Pipes in the dimensions of d16 and d20 can be bent effortlessly by hand and using a bending machine up to d50. Installation is easier and fittings can be saved. This saves time and money for the installation.

↑
UNPRESSED GEBERIT MEPLA FITTINGS LEAK VISIBLY WHEN SUBJECTED TO LEAK TESTS WITH WATER

↑
PIPES IN THE DIMENSIONS OF D16 AND D20 CAN BE BENT EFFORTLESSLY BY HAND AND USING A BENDING MACHINE UP TO D50.

SIMPLY **PRESSED**

PRESSING COLLARS - FOR THE BIG JOBS.

The Geberit Mepla pressing collars are small, light and robust to ensure easy handling for more speedy time effective jobs.

Pressing collars with 63mm and 75mm dimensions are used for pressing Geberit Mepla pipes. The collars are held firmly in place on the press fitting thanks to a snap mechanism. The adaptor jaw can also be used to adapt the pressing tool.

THE NEW GEBERIT MEPLA PRESSING JAWS ARE AVAILABLE FOR DIMENSIONS 16MM TO 50MM

Dimension	16 mm	20 mm	26 mm	32 mm	40 mm	50 mm	63 mm	75 mm	
Compatibility [1] Geberit pressing tool ACO 102	✓	✓	✓	✓	✓				Pressing jaw [1]*
Compatibility [2] **Geberit pressing tool ACO 203** **Geberit hand-operated pressing tool MFP 2**	✓	✓	✓	✓	✓	✓	✓	✓	Pressing jaw [2] Pressing collar [2]* adapter jaw ZB 203

* Geberit Mepla pressing jaws [1] and pressing collars [2] still require external service. The next mandatory maintenance date for the pressing jaws and pressing collars is specified on the test badge

PRESSING JAWS
MAXIMUM PERFORMANCE. MINIMUM MAINTENANCE.

The Geberit pressing tools are compact, lightweight and provide a high level of convenience. They are either driven electrohydraulically or with the use of modern lithium-ion batteries with a long running time meaning less down time.
Two 1.5 Ah rechargeable batteries are always contained in battery operated pressing tools which means it is possible to work with one rechargeable battery while the second is on charge.

The Geberit Mepla pressing jaws generate a balanced distribution of force, ensuring a high pressing performance. Incorrect pressing will become a thing of the past thanks to the precise pressing jaw guide of the fitting

Geberit Mepla pressing jaws should not require any external maintenance throughout the entire life span. As a result you will have no down time, saving you overall cost. Even after intensive use, the corrosion-resistant surfaces the tool remains in excellent working order.

- → Compact and lightweight with high performance
- → Suitable for restricted construction situations
- → Slim, non-slip handle for reliable handling
- → Electrohydraulic drive
- → Good visibility in dark corners thanks to integrated LEDs on the ACO 203plus
- → Easy maintenance thanks to the brushless motor (selected models)

←
ACO 103PLUS, ACO 203PLUS AND ACO 203XLPLUS COME WITH A BLUETOOTH® INTERFACE FOR THE NOVOCHECK APP, WHICH ALLOWS TO READ THE TOOL INFORMATION AND THE PRESSING RECORDS.

THE NEW RECHARGEABLE BATTERIES WITH 5 AH FOR ACO 203PLUS AND ACO 203XL PLUS ALLOW THREE TIMES MORE PRESSINGS FOR LARGER SIZES.

POWERTEST

To ensure your tool is calibrated and performing correctly you can carry out a Geberit PowerTest. This will ensure you have up to date information above the condition of the pressing jaw. To operate, how the Geberit PowerTest at the front between the Geberit Mepla jaw and press a Geberit Mepla fitting. If the Geberit PowerTest changes colour, the Geberit Mepla pressing jaw can continue to be used.

TECHNICAL **DATA**

APPLICATION	Operating conditions: GEBERIT MEPLA – Operating temperature	Operating conditions: GEBERIT MEPLA – Max. operating pressure	Operating conditions: GEBERIT MAPRESS – Operating temperature	Operating conditions: GEBERIT MAPRESS – Max. operating pressure	GEBERIT MEPLA – Mepla	GEBERIT MEPLA – Mepla Therm
Hot and cold potable water	0 – 70 °C [7]	10 bar	0 – 100 °C	16 bar	✓	
Cold potable water	0 – 20 °C	16 bar			✓[11]	
Heating water [2]	0 – 80 °C [8]	10 bar	0 – 100 °C	16 bar	✓	✓
Cooling water without antifreeze agent	0 – 70 °C	10 bar	0 – 100 °C	16 bar	✓	✓
Cooling water with antifreeze agent [3]	-10 – +40 °C [4]	10 bar	-10 – +40 °C	16 bar	✓	✓
Remote network heating water ≤ 120 °C [2]			0 – 120 °C	16 bar		
Remote network heating water ≤ 140 °C [2]			0 – 140 °C	16 bar		
Saturated steam [2] **≤ 120 °C**			0 – 120 °C	2 bar		
Saturated steam [2] **≤ 155 °C**			5 – 155 °C	5 bar		
Service water [1]	0 – 40 °C	10 bar	0 – 100 °C	16 bar	✓	✓
Treated water [6]	0 – 40 °C	10 bar	0 – 100 °C	16 bar	✓	✓
Rainwater with a pH value > 6.0	0 – 40 °C	10 bar	0 – 100 °C	16 bar	✓	✓
Salt water	0 – 70 °C	10 bar			✓	✓
Grey and black water with pH value > 0.6			0 – 100 °C	16 bar		
Extinguishing water (wet)	0 – 70 °C	10 bar	0 – 70 °C	16 bar	✓	✓
Extinguishing water (wet/dry; dry)	0 – 70 °C	10 bar	0 – 70 °C	10 bar/16 bar	✓	✓
Sprinkler (wet)			0 – 70 °C	Varies depending on Ø		
Sprinkler (wet/dry; dry)						
For thermal medium (solar) [10]			-25 – +220 °C	10 bar/16 bar		
For mineral oils	Temperature and pressure available on request					
For fuels [1]	Temperature and pressure available on request					
Chemicals and technical liquids [1]	Temperature and pressure available on request				✓	✓
Compressed air (oil purity class 0-3) [9]	0 – 70 °C	10 bar	0 – 100 °C	Varies depending on Ø	✓	✓
Compressed air (oil purity class 0-X) [9]			0 – 100 °C	Varies depending on Ø		
Negative pressure	0 – 40 °C	≥ 0.2 bar (absolute)	0 – 40 °C	≥ 0.2 bar (absolute)	✓	✓
Inert gases (e.g. nitrogen)	40 °C	10 bar	0 – 100 °C	Varies depending on Ø	✓	✓
For industrial gases [1] **(e.g. acetylene, shielding gases)**	Temperature and pressure available on request					
Natural gases			-20 – +70 °C	Varies depending on system		
Liquefied gases			-20 – +70 °C	Varies depending on system		
Biogases [1]			-20 – +70 °C	5 bar		

	Mepla	Mepla Therm
Surface roughness (µm)	7	7
Thermal expansion (mm / (m·K))	0.026	0.026
Thermal conductivity (W / (m·K))	0.43	0.43

DN DIMENSIONS	Mepla	Mepla Therm
10		
12	16 x 2.25	16 x 2.25
15	20 x 2.5	20 x 2.5
20	26 x 3.0	26 x 3.0
25	32 x 3.0	32 x 3.0
32	40 x 3.5	
40	50 x 4.5	
50	63 x 4.5	
65	75 x 4.7	
80		
100		

Piping system

GEBERIT MAPRESS CARBON STEEL: Carbon steel, outside zinc-plated 1.0034 / 1009	GEBERIT MAPRESS CARBON STEEL: Carbon steel, outside PP-jacketed 1.0034 / 1009	GEBERIT MAPRESS CARBON STEEL: Carbon steel, inside and outside zinc-plated 1.0215 / 1009	GEBERIT MAPRESS COPPER	GEBERIT MAPRESS STAINLESS STEEL: CrNiMo steel 1.4401 / 316	GEBERIT MAPRESS STAINLESS STEEL: CrMoTi steel 1.4521 / 444	GEBERIT MAPRESS STAINLESS STEEL: CrNi steel 1.4301 / 304
			■	■	■	
■[5]	■[5]		■	■	■	■
■[5]	■[5]		■	■	■	■
■[5]	■[5]		■	■	■	■
■[5]			■	■	■	■
■[5]				■	■	■
				■	■	■
				■		
			■	■	■	
				■	■	
				■	■	
				■	■	
		■		■		
				■[13]		
		■[14]		■[13]		
				■		
■[5]			■	■	■	■
■			■	■	■	■
■[5]			■	■	■	■
■			■	■	■	■
				■■	■■	■■
■[15]	■[15]	■[15]	■[16]	■[17]	■[21]	■[18]
■[15]	■[15]	■[15]	■[16]	■[17]	■[21]	■[18]
			■	■	■	■
Upon request			■[16]	■[17]	■[21]	■[18]
				■■		
			■[19]	■[20]		
			■[19]	■[20]		
				■		

GEBERIT MAPRESS CARBON STEEL: Carbon steel, outside zinc-plated 1.0034 / 1009	GEBERIT MAPRESS CARBON STEEL: Carbon steel, outside PP-jacketed 1.0034 / 1009	GEBERIT MAPRESS CARBON STEEL: Carbon steel, inside and outside zinc-plated 1.0215 / 1009	GEBERIT MAPRESS COPPER	GEBERIT MAPRESS STAINLESS STEEL: CrNiMo steel 1.4401 / 316	GEBERIT MAPRESS STAINLESS STEEL: CrMoTi steel 1.4521 / 444	GEBERIT MAPRESS STAINLESS STEEL: CrNi steel 1.4301 / 304
10	10	10	-	1.5	1.5	1.5
0.012	0.012	0.012	-	0.0165	0.0104	0.016
60	60	60	-	15	23	15

DN DIMENSIONS	GEBERIT MAPRESS CARBON STEEL: Carbon steel, outside zinc-plated 1.0034 / 1009	GEBERIT MAPRESS CARBON STEEL: Carbon steel, outside PP-jacketed 1.0034 / 1009	GEBERIT MAPRESS CARBON STEEL: Carbon steel, inside and outside zinc-plated 1.0215 / 1009	GEBERIT MAPRESS COPPER	GEBERIT MAPRESS STAINLESS STEEL: CrNiMo steel 1.4401 / 316	GEBERIT MAPRESS STAINLESS STEEL: CrMoTi steel 1.4521 / 444	GEBERIT MAPRESS STAINLESS STEEL: CrNi steel 1.4301 / 304
	d x wall thickness in mm						
10	12 x 1.2	12 x 1.2	-	x	12 x 1.0	12 x 1.0	-
12	15 x 1.2	15 x 1.2	15 x 1.5	x	15 x 1.0	15 x 1.0	15 x 1.0
15	18 x 1.2	18 x 1.2	18 x 1.5	x	18 x 1.0	18 x 1.0	18 x 1.0
20	22 x 1.5	22 x 1.5	22 x 1.5	x	22 x 1.2	22 x 1.2	22 x 1.2
25	28 x 1.5	28 x 1.5	28 x 1.5	x	28 x 1.2	28 x 1.2	28 x 1.2
32	35 x 1.5	35 x 1.5	35 x 1.5	x	35 x 1.5	35 x 1.5	35 x 1.5
40	42 x 1.5	42 x 1.5	42 x 1.5	x	42 x 1.5	42 x 1.5	42 x 1.5
50	54 x 1.5	54 x 1.5	54 x 1.5	x	54 x 1.5	54 x 1.5	54 x 1.5
65	66.7 x 1.5 76.1 x 2.0		76.1 x 2.0	x	76.1 x 2.0		76.1 x 1.5
80	88.9 x 2.0		88.9 x 2.0	x	88.9 x 2.0		88.9 x 1.5
100	108 x 2.0		108 x 2.0	x	108 x 2.0		108 x 2.0

Applications generally approved if the defined additional requirements are met in accordance with the footnotes.

1) After Geberit approval
2) Only use approved inhibitors
3) Use only approved antifreeze agents
4) Higher temperature only after approval by Geberit
5) Closed systems only
6) Application range according to TI "Treated waters"
7) Malfunction temperature according to EN 806-2: Tmal = 95 °C, total 100 h over the course of the service life
8) Malfunction temperature in accordance with ISO 10508:2006: Tmal = 100 °C, total 100 h over the course of the service life
9) Oil purity class in accordance with ISO 8573-1:2010DEE; for details on moisture and particles, see Technical Information "Geberit Piping Systems for Compressed Air Installations"
10) Service life with collector downtime of 200 h/a at 180 °C, 60 h/a at 200 °C, total of 500 h/service life at 220 °C
11) Exclusively MeplaFix
12) Maximum operating pressure of 6 bar
13) Maximum operating pressure: 16 bar for d22 – 76.1 mm, 10 bar for d88.9 – 108 mm
14) Maximum operating pressure: 16 bar for d22 – 54 mm; 12 bar for d66.7 – 76.1 mm; 10 bar for d88.9 – 108 mm
15) Maximum operating pressure: 25 bar for d12 – 28 mm; 16 bar for d35 – 54 mm; 12 bar for d66.7 – 108 mm
16) Maximum operating pressure: 16 bar for d12 – 54 mm; 10 bar for d66.7 – 88.9 mm; 8 bar for d108
17) Maximum operating pressure: 25 bar for d12 – 54 mm; 16 bar for d76.1 mm; 12 bar for 88.9 – 108 mm
18) Maximum operating pressure 16 bar for d15 – 76.1 mm; 10 bar for d88.9 – 108 mm
19) Maximum operating pressure: 1 bar
20) Maximum operating pressure: 5 bar
21) Maximum operating pressure: 16 bar for d15 – 54 mm

Only applicable to Geberit Mapress systems

- ■ Application with black CIIR seal ring with predetermined operating data.
- ■ Application with blue FKM seal ring with predetermined operating data.
- ■ Application with yellow HNBR seal ring with predetermined operating data.
- ■ Application with white FKM seal ring with predetermined operating data.

Applications apply with standard fitting and seals. For applications with additional fittings and seals, please see the applications in the tables contained in the catalogue for the respective piping system.

TECHNICAL **DATA**

	Geberit ACO 103plus	Geberit ACO 203plus	Geberit ACO203XLplus
			
Compatibility	1	2	2XL
Characteristics			
LED pressing point light		✓	✓
Bluetooth®	✓	✓	✓
Brushless motor		✓	✓
Swivelling head	✓		
Power supply	Rechargeable battery	Rechargeable battery	Rechargeable battery
Technical data			
Nominal force (kN)	19	32	32
Protection degree	IP20	IP20	IP20
Cable length (m)	-	-	-
Power consumption (W)	240	450	450
Operating temperature	-20 – +60 °C	-20 – +60 °C	-20 – +60 °C
Sound pressure level at user's ear	75.5 db(A)	76.5 db(A)	76.5 db(A)
Vibration emission value (m/s^2)	≤ 2.5	≤ 2.5	≤ 2.5
Weight (kg)	1.7	2.8	3.8

THE PRESSING TOOLS FOR GEBERIT MEPLA

	d16	d20	d26	d32	d40	d50	d63	d75	
Geberit Mepla hand-operated pressing pliers	✓	✓	✓						
Compatibility [1] Geberit pressing tool ACO 103plus	✓	✓	✓	✓	✓				Geberit Mepla pressing jaw [1]
Compatibility [2] Geberit hand-operated pressing tool MFP 2 Geberit pressing tool ACO 203plus	✓	✓	✓	✓	✓	✓			Geberit Mepla pressing jaw [2]
Geberit pressing tool ACO 203XLplus							✓	✓	Geberit Mepla pressing collar [2] Geberit adapter jaw ZB203 [2]

THE PRESSING TOOLS FOR GEBERIT MAPRESS

	d12	d15	d18	d22	d28	d35	d42	d54	d66.7	d76.1	d88.9	d108	
Compatibility [1] Geberit pressing tool ACO 103plus	✓	✓	✓	✓	✓	✓							Geberit Mapress pressing jaw [1]
Compatibility [2] Geberit pressing tool ACO 203plus	✓	✓	✓	✓	✓	✓							Geberit Mapress pressing jaw [2]
Compatibility [2XL] Geberit pressing tool ACO 203XLplus Geberit hand-operated pressing tool MFP 2						✓	✓	✓	✓				Geberit Mapress pressing collar [2] [3] Geberit adapter jaw ZB203 [2]
Compatibility [2XL] Geberit pressing tool ACO 203XLplus										✓	✓	✓/✓	Geberit Mapress pressing jaw [3] Geberit Mapress adapter jaw ZB 221 [2XL] / ZB 222 [2XL]

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