EWE ARMATUREN

Tried and tested.

We are Family

FLEXORIPP water meter pit

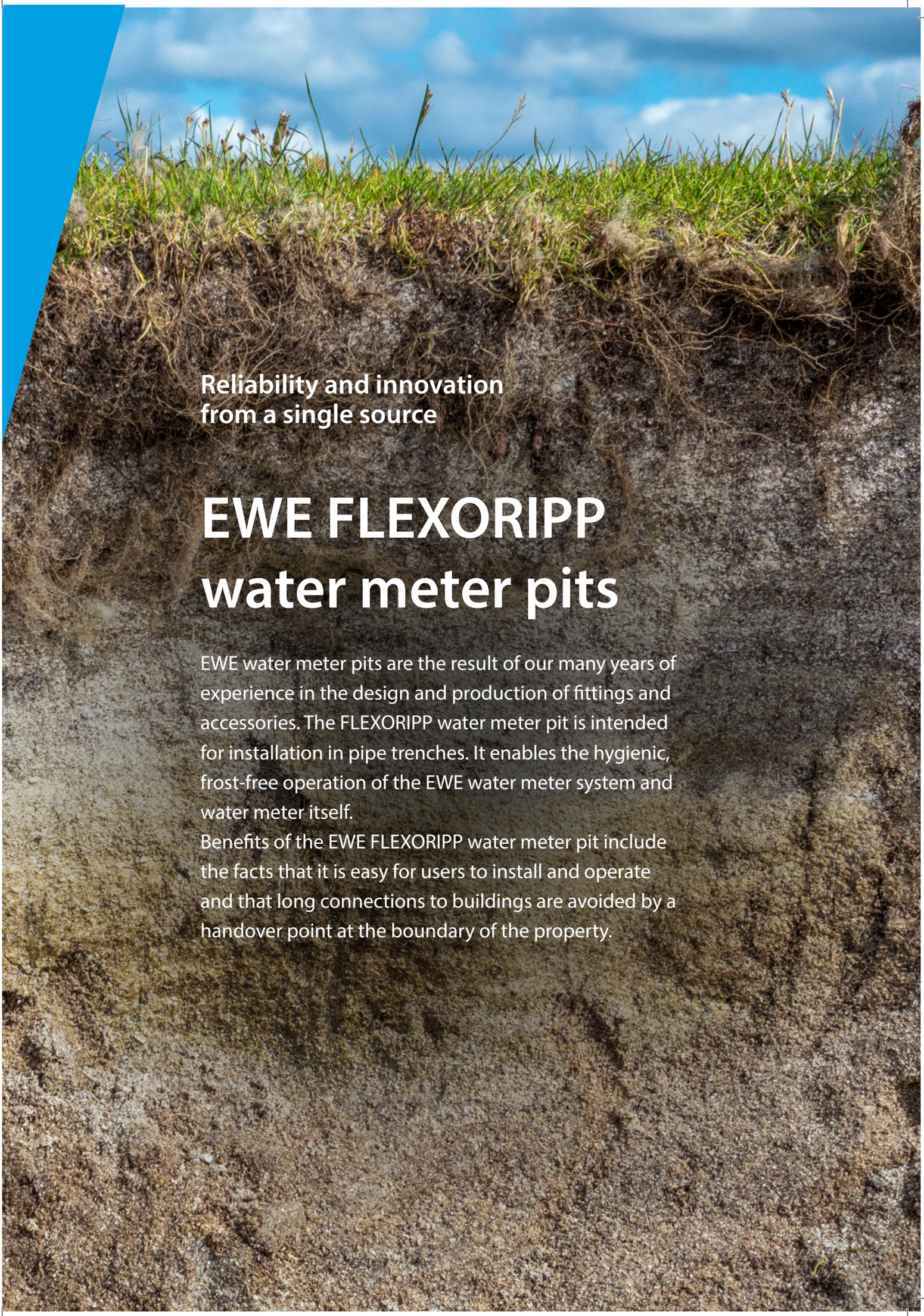
FLEXORIPP, DOUBLE FLEXORIPP, MEGARIPP 1000



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Reliability and innovation from a single source

EWE FLEXORIPP water meter pits

EWE water meter pits are the result of our many years of experience in the design and production of fittings and accessories. The FLEXORIPP water meter pit is intended for installation in pipe trenches. It enables the hygienic, frost-free operation of the EWE water meter system and water meter itself.

Benefits of the EWE FLEXORIPP water meter pit include the facts that it is easy for users to install and operate and that long connections to buildings are avoided by a handover point at the boundary of the property.



FLEXORIPP

The benefits

- Easy installation into pipe trenches without extensive earthwork thanks to small dimensions
- No long connections to buildings, handover at property boundary
- Easy removal of EWE water meter system, easy reading, installation, and deinstallation of meter
- Surface-waterproof, hygienic, frost-free operation of EWE water meter system and water meter itself
- FLEXORIPP water meter pit does not need to be (and cannot be) entered, so accident prevention regulations on entering shafts do not apply



FLEXORIPP

Regulations

In various places in the regulations, water meter pits are named as possible frost-free installation options for water meters.

- EN 806-2 states that water meter systems inside and outside buildings (in rooms and pits) must comply with EN 805 and the regulations of the water supplier.
- The relevant product regulations, including DVGW inspection principle W570 for fittings and W543 for hose lines, apply for the installations in the pits.
- In addition, water meters should be installed in a dry and clean place in accordance with W406.
- DVGW W400-1&3 and DIN 1988-200 state that pits must be easily accessible and positioned outside traffic areas if possible.
- Pit covers as per DIN EN124 provide safety relating to load-bearing capacity and child safety.

Diverse possible usages

In cemeteries and parks



On new housing estates as a building connection or construction water meter pit



At camp sites, on allotments, and at weekend cottages



At events such as the Bad Wildungen State Garden Show



FLEXORIPP

Pit element



FLEXORIPP

with DIBt approval

The advantages of the EWE FLEXORIPP water meter pit with approval from the DIBt

- Approved by the German Institute for Structural Engineering (DIBt)
- General building approval for construction products for which there are still no generally recognised rules of technology
- Can be used for structural installations that fall under the auspices of regional building regulations (e.g. exhibition venues, sports and games areas, camp sites, holiday camps, leisure and amusement parks)
- For users who require pit approval and verification of stability
- Pit element made from DIBt-approved white PE



Deutsches Institut für Bautechnik DIBt

What is the DIBt?

- The German Institute for Structural Engineering
- A technical authority that acts on behalf of the federal government and 16 states
- A central certification body for new and unregulated construction products and methods

FLEXORIPP

Shortening the pit

Pit tube that can be shortened flexibly

Consisting of:

- Single-part with variable construction height
- Quick and easy can be shortened in multiples of 2.5 cm using a suitable tool or EWE cutter









FLEXORIPP

Lengthening the pit

TELERIPP extension

- For a subsequent sealed extension to the pit element, any desired height from 70 to 250 mm

Consisting of:

- TELERIPP attachment
- Frame seal
- TELERIPP seal
- 150 g lubricant









FIXRIPP

- For an extension of 250 mm, can be shortened to a maximum of 75 mm extension

Consisting of:

- Rigid attachment for FLEXORIPP
- With seals and assembly grease



FLEXORIPP

Pit lead-throughs and installations

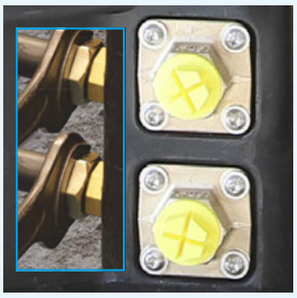
Pit lead-throughs

- With a single output
- Inner thread with O-ring contour
- Made from lead-free silicon brass
- Twist-proof and extraction-proof
- Triple O-ring seal
- Universal transition to connection fittings of all kinds



Double Pit lead-throughs

- With dual output
- Inner thread with O-ring contour
- Made from lead-free silicon brass
- Twist-proof and extraction-proof
- Triple O-ring seal
- Universal transition to connection fittings of all kinds



Installations

- Lead-free water meter systems
- Positioned at height of connection line
- Frost-proof thanks to choice of pipe cover
- For 1" x 190 mm or 1 1/4" x 260 mm water meter
- Dual pivot bearing stainless steel silicon hoses
- Available in various designs with ball cocks, angle seat valves, combined angle seat check valves, ball membrane non-return-flow valves, pressure regulators etc.
- All installations can be replaced and retrofitted





Example with one output:



Example with a double output:



Certified installations:



Hose lines



Angle seat/combined angle seat check valves



Ball cocks



Ball membrane non-return-flow valves



Pit covers

FLEXORIPP

Operation of the pit system

- Pull out the water meter pit system using the lifting cable after removing the lid and insulating lid.



- Thanks to the flexible hoses, the water meter pit system can be positioned next to the pit opening and operated easily.



- Alternatively, the pit system can be affixed to the base on the edge of the pit.



- Lower the water meter pit system using the lifting cable.
- The hose lines fall into position automatically.



FLEXORIPP

Adaptable load-bearing capacity through lid choice

Insulating lid

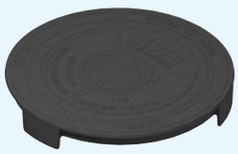
- Not accessible
- Permanently connected to the lifting cable
- Made from waterproof EPP
- Additional pit cover required



Pit cover options:

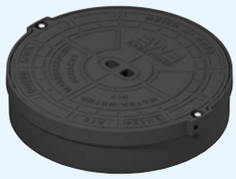
FLEXORIPP cover head, 200 kg

- Made from grey cast iron
- For load-free installation situations (flowerbed, rockery)
- Accessible up to 200 kg
- Installation above ground level



FLEXORIPP pit cover A15, EN124

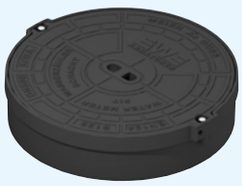
- Made from grey cast iron
- Comprising frame, lid, and lid seal
- Surface-waterproof
- With position lips and lock
- For traffic areas (e.g. presence of cyclists, pedestrians), load class A15
- Certified in accordance with DIN EN 124
- alternatively with stud bolts



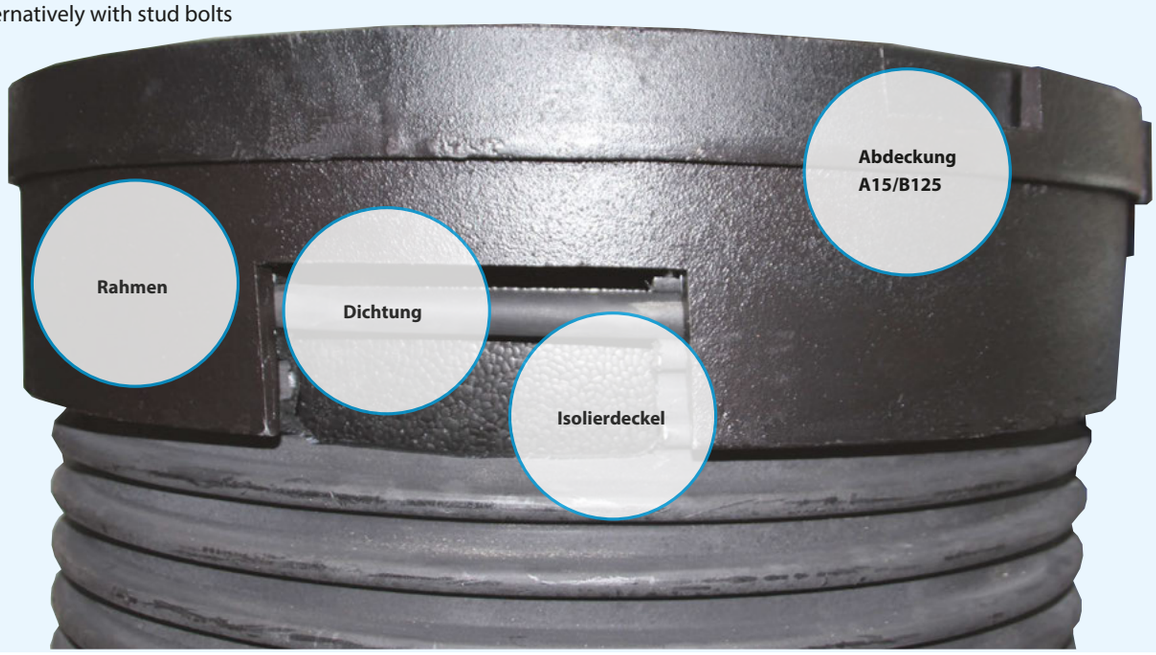


FLEXORIPP pit cover B125, EN124

- Made from grey cast iron
- Comprising frame, lid, and lid seal
- Surface-waterproof
- With position lips and lock
- For traffic areas (e.g. car parks), load class B125
- Certified in accordance with DIN EN 124
- alternatively with stud bolts







FLEXORIPP

Installation examples

Cover head

- Install the cover head above ground level.
- Precipitation and surface water is channelled off due to the raised installation position.
- The cover hood can only be lifted via the edge of the lid.



Pit cover A15/B125

These pit covers can be installed flush with the surface but awoid to install in depression.



- Place the sealing ring into the upper rib cavity.



- Place the lid frame onto the upper lid of the pit element.



- Close the lid.



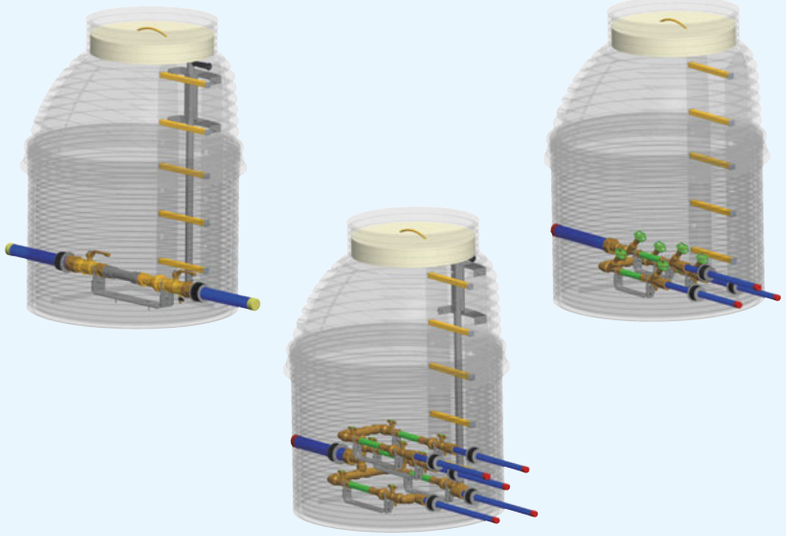
- Fit the lid frame into the cover layer.

MEGARIPP 1000

Technical features

- Walk-in shaft made of plastic (PE-HD)
- Largest inner diameter 1,000 mm
- Total construction height 1.50 m to a maximum of 6.00 m
- With integrated ladder made of PE-HD/GRP and boarding aid made of stainless steel according to accident prevention regulations
- Equipment can be designed individually, e.g. B. with water meter system Q3 16 or with up to 5 water meter systems
- Now more than 2200 variations thanks to optimized built-in components
- Lead-free fittings





Accesories

Extension for MEGARIPP 1000

- Extension modules from 125 mm to 1,000 mm

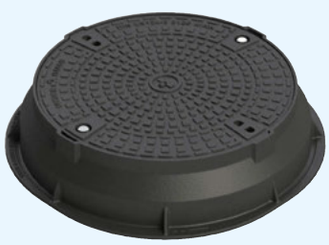


6-point key for pit cover B 125



Pit covers for MEGARIPP 1000

- Pit cover B 125



- Concrete support ring LW 600



Pit hydrant

Water extraction directly from the water meter pit

- For taking water directly at the water meter pit
- E.g. for taking construction water
- Frost-resistant thanks to self-draining
- With one to three brass outlet valves and a GEKA coupling
- With a choice of non-returnflow valve or BA system separator
- Sheath tube protruding 50 cm above the pit lid for all pit cover depths



Installation example

- Pit hydrant with BA system separator
- FLEXORIPP water meter pit with ball shut-off valves



FLEX pit set

The problem

- For decades, water meters have been installed in shafts for various purposes, particularly to provide a drinking water connection to sites without suitable buildings to house the water meter (such as campsites, exhibition grounds, cemeteries, etc.).
- There are still numerous 'accessible' water meter pits in older buildings, some of which were constructed as makeshift solutions, whereas modern water meter pits already feature a removable water meter bracket to avoid the need to enter the water meter pit.
- Safety issues for operators and users – Operators must ensure that the water meter pit can be used safely; in particular, where it is used for commercial purposes, this must comply with the requirements of the employers' liability insurance association.
- It is difficult for laypeople to be aware of and comply with the relevant regulations, for example when a tenant reads the meter – a pre-programmed risk of accidents!

The requirements

For commercial users, the professional association guidelines on 'entering manholes' are binding and quite comprehensive. These begin with the requirement that only two people should enter a manhole at any one time, go on to stipulate the use of lifting equipment for heavy manhole covers, and set out rules for assessing the atmosphere inside the manhole and ensuring air exchange, extending as far as entry aids.

The solution

- By using the components in the kit, old water meter pits can be easily converted by transforming the water meter installation into a pull-out version.
- This eliminates the risk of falling into the water meter pit and improves operational safety, even for those with no prior experience.
- Meter reading, maintenance or replacement of the water meter can be carried out safely at ground level.
- Converting the existing water meter pit is incredibly easy thanks to a wide range of accessories.
- The FLEX pit set is made from lead- and arsenic-free materials, such as silicon brass.

Installation example

- FLEX pit set version ball shut-off valve and KSR valve
- With 1" x 190 mm hose connector
- With FLEX hose assembly, 2500 mm











- FLEX pit set version ball shut-off valve and KSR valve
- With 1" hose connection thread adapter
- With FLEX hose assembly, 2500 mm











EWE - thoroughly tried and tested! Because we're a team.







Our products are our passion. As a team consisting of both managers and employees, we prove that this isn't just a cliché. Quality and continuity form the basis for trusting teamwork. The dedication and skills of each individual allow us to look to the future with self-assurance. Our success is grounded in reliability and the honesty with which we treat our customers. This has made us into a leading supplier of high-quality fittings for the supply of gas and water and the disposal of waste water. And we're proud of it! We're also a 3rd-generation family company.



Blue Responsibility

Sustainable Water Technology





Production location: Germany

We produce our ground shut-off and garden fittings at our plant in Braunschweig. From design & development through production & quality control to sales & service, all of our processes are realised via one and the same site. This means that we can meet all requirements relating to safety, guidelines, permits, and quality checks at our site and from a single source.

Quality without compromise

DVGW certification and compliance with international guidelines are key when it comes to our fittings. All of our products are subjected to thorough checks and quality controls before being launched on the market. Our quality standards are based on a workforce trained to the highest standards, modern production facilities, and safety and environmental regulations. We use durable, robust materials such as dezincing-resistant brass and stainless steel. This allows us to ensure the quality and sustainability of our products. To protect the environment, we use innovative environmentally-friendly materials such as lead-free silicon brass.

EWE ARMATUREN

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Ausgabe 05/2026