



...thoroughly tried and tested!

# EWE water meter systems

*...more than just a water meter mount*



## EWE water meter systems

EWE water meter systems are the result of our continuous development work in the design and production of fittings and accessories. As the first manufacturer we have now been producing and supplying high quality water meter systems for over five decades. Using the modular principle, we have created a wide range of models but can also provide specific solutions quickly and straightforwardly according to your requirements. A wide choice of accessories rounds off our water meter programme. DVGW certification and compliance with international regulations are significant criteria for the manufacture of our fittings.



### Performance profile

We are a medium sized family company now in its third generation. Our more than 60 years of experience and technical knowhow have made us a leading supplier of high quality fittings. Expertise, reliability, commitment and not least the continuity in management and among the staff are the basic prerequisite for our success. Here you will get not only high quality and reliable fittings for the operation of your supply network but also the appropriate accessories to go with them. As a company that has specialised in the manufacture of domestic connection fittings for water, gas and waste water, we offer suitably customised complete solutions to match your requirements.



### Production facility in Germany

From design and development through manufacture and quality assurance to sales and service, all water meter systems are produced and based at our works in Braunschweig. This means that we are in a position to fulfil the safety requirements in standards, regulations, authorisations and inspections and the high standards expected of quality. The security of knowing that everything is from a single source means confidence in the production of our fittings and dependability for you in quality, function and supply.



### Quality without compromises

An essential component for our fittings is the DVGW certification of our fittings as well as compliance with international regulations. New products are only put on the market after exhaustive testing. Staff with first class training, modern production facilities and compliance with safety and environmental requirements form the basis for our high quality standards. The outstanding quality and long life of our water meter systems is ensured not least by the use of high quality and sound materials such as DR quality brass, stainless steel etc. Innovative and environmentally friendly materials such as silicon brass, which contribute to the reduction of lead content in drinking water, find more and more use in the manufacture of our fittings.

## EWE water meter systems

We offer you as a user, water meter systems which provide outstanding solutions in the most varied of situations in domestic installations and which give confidence by their unusually high technical standards. The EWE water meter systems have been developed and perfected over decades of use by specialists. Low cost, optimum accuracy of fit of the components and high operational reliability are only some of the benefits which the systems offer you.

### The modular principle

EWE water meter systems offer a wide choice of connection and connecting possibilities. Using the flexible modular system we have created a wide range of models. This means that there is not only rapid availability but also comprehensive system expertise. Solutions tailored to your technical needs can therefore be provided promptly and without any complications. Our perfectly coordinated system means we are best equipped and prepared to meet your many and various requirements. The products are easily combined and are supplied pre-assembled.

### Connection mount

#### Water meter mount:

- for water meter Qn 1.5 to Qn 10 and Qn 20 (Austrian model) available for horizontal and vertical meter installation
- steel or cast mount, hot-dip galvanised with additional blue EPC coating
- with bolts, washers and cap nuts galvanised
- alternative stainless steel mount with bolts, washers and cap nuts in stainless steel
- seam at back giving a good flat fit even on uneven walls
- low sound transmission and practical t-fixing slots

#### Water meter mount fittings:

- positive fitting thread length adjustment
- in heavy brass or lead free Si brass
- with coupling nut for connection to the water meter
- with octagon for adjusting the length compensation with the coupling nut
- multithread with high pitch for quick length adjustment
- with lock ring and with casing with external thread
- double O-ring seal without dead space

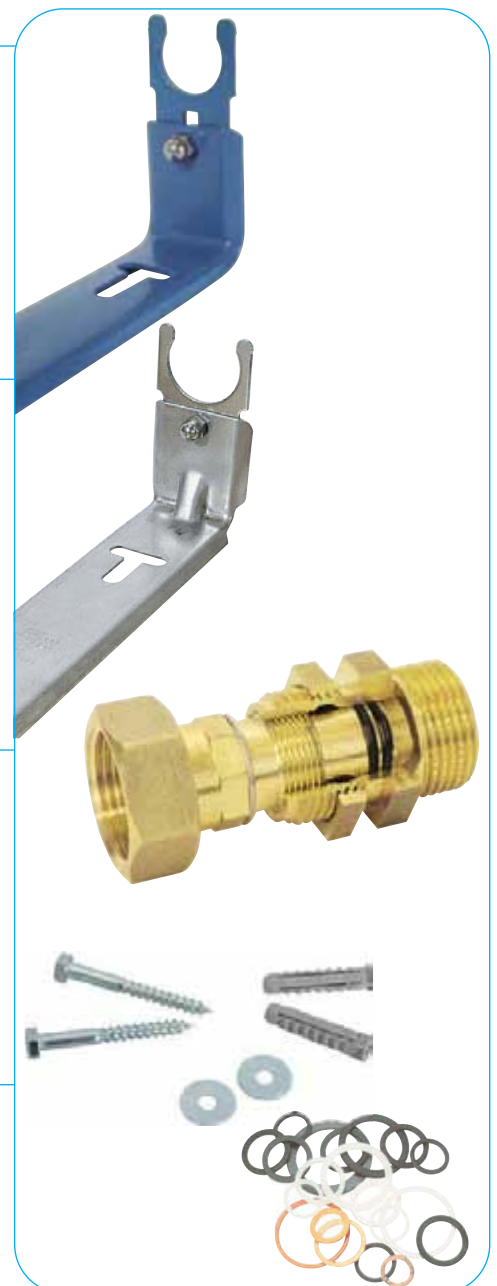
### Fixings and seals

#### Fixing material set

- optional to the water meter system supply, packed in carton
- with PVC dowels, screws and washers, in various versions

#### Water meter seals

- in EPDM (for max. 130°C), in PE (for max. 40°C) or in CE 200 (for max. 200°C)



## EWE valves for water meter systems

EWE water meter systems are suitable for drinking water and available in various versions for all common water meter systems; they are able to effectively handle the range of practical conditions found on site. They are equipped with DVGW certified ball shut-off valves, oblique-seated valves, KSR valves or ball diaphragm backflow preventers. Adjustable support arms allow adaptable wall clearance. All fittings have exterior connection sleeves suitable for the EWE O-ring system. The continuous thread components provide the highest degree of safety. Water meter systems are supplied pre-assembled. Seal points are kept to a minimum.

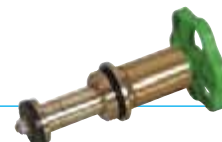


### Ball shut-off valve

- in hot-pressed brass or lead free Si brass
- ball in brass, chromed, alternatively in A4 stainless steel, with relief hole(s) for circulating the ball, keeping it free of dead space and less risk of frost damage
- ball seals in PTFE
- octagon design hot-press brass butterfly grip
- full, smooth throat
- integrated reduction means low pressure loss
- safe and quick shut-off by 90° turn, saving maintenance time

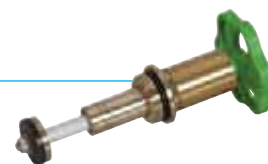
### Oblique-seated valve

- in hot-press brass or lead free Si brass
- drive not in contact with medium, therefore smooth running and free of dead space
- rotation reduced by double feed
- top part can be retrofitted and replaced



### Combined oblique-seated/backflow valve (KSR valve)

- in hot-press brass or lead free Si brass
- one piece design, without loose parts, make installation easier
- drive not in contact with medium, therefore smooth running and free of dead space
- double feed rotation reduction
- Teflon coated brass plunger reduces the risk of deposit build-up



### Ball diaphragm backflow preventer

- in hot-press Si brass
- diaphragm controlled backflow preventer
- maintenance friendly, springless safety valve
- can be retrofitted and replaced
- more details, see page 07 "Ball diaphragm backflow preventer"

## EWE water meter systems

Water meter systems are designed to connect the domestic system to the distribution network. They provide the crossover from the public supply pipe to the customer's private consumption system and therefore serve as interface between the domestic connection, water meter and domestic system. The introduction of DIN 1988 "Technical Regulations for Drinking Water Supply Systems" means that water meter systems are a permanent part of building services and ensure the first line in stress free installation and removal of water meters in pipes.

### Water meter systems

#### with ball shut-off valve

- inflow side ball shut-off valve, outflow side connection

#### with oblique-seated valve

- inflow side oblique-seated valve, outflow side connection

#### with ball shut-off valves

- inflow and outflow sides ball shut-off valves

#### with ball shut-off valve and KSR valve

- inflow side shut-off valve, outflow side KSR valve

#### with oblique-seated valves

- inflow and outflow sides oblique-seated valve

#### with oblique-seated valve and KSR valve

- inflow side oblique-seated valve, outflow side KSR valve

#### with ball shut-off valves and ball diaphragm backflow preventer

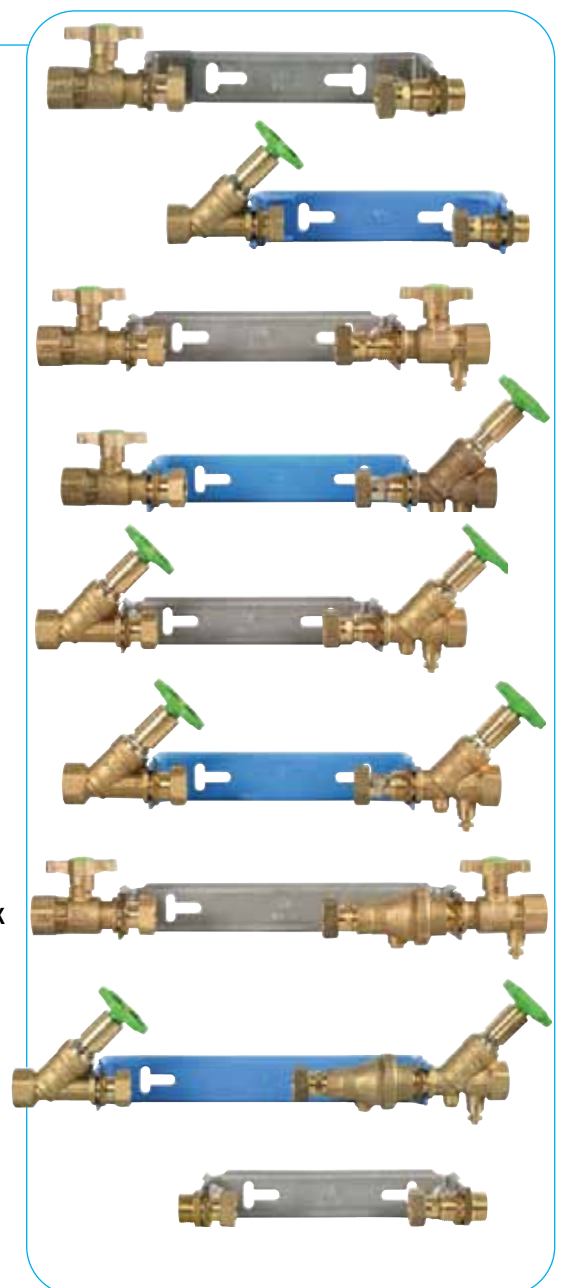
- inflow side ball shut-off valve, outflow side ball shut-off valve with ball diaphragm backflow preventer

#### with oblique-seated valve and ball diaphragm backflow preventer

- inflow side oblique-seated valve, outflow side oblique-seated valve with ball diaphragm backflow preventer

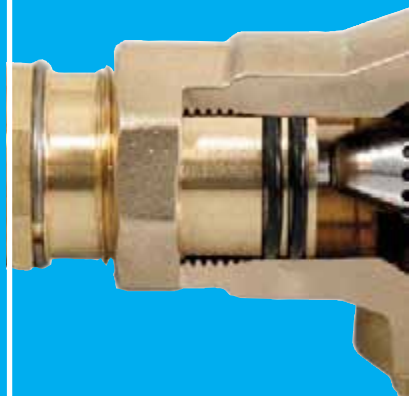
#### Water meter connection mount

- with inflow and outflow connection



## EWE accessories for water meter systems

We supply accessories which are ideally suited to our water meter systems. Specific accessories can be designed for your requirements on request.



### Handles and levers

#### Hand wheel with reduction gear, butterfly grip, lever grip

- suitable for EWE water meter ball valves and EWE ball shut-off valves

### Replacement top parts

#### Top parts for KSR valve and oblique-seated valve:

- details see page 04 "Valves for water meter systems"

### Closing devices

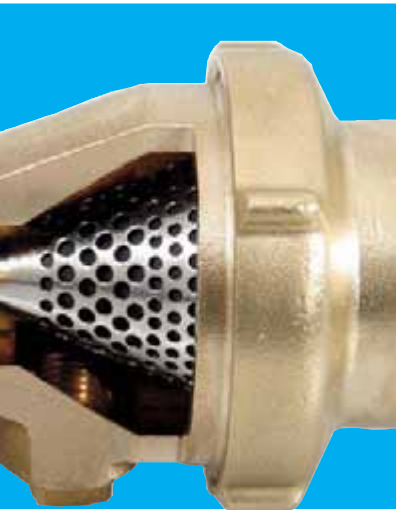
- suitable for EWE water meter ball valves

### Sealing devices

- sealing pliers, sealing pliers insert, seal wire, seals, seal collar

### Connections and crossovers, adapters and couplings

- various connections for secure connection to the water meter
- adaptor to reduce the water meter nominal size
- adaptor replacing water meter



## EWE ball diaphragm backflow preventer (KMR)

EWE KMR are used to prevent back pressure, backflow or back suction of fluids against the required direction of flow and have been well proven in our water meter systems for decades. They operate with a very low pressure loss and with high throughput rate; they are also easy to test or replace in installed water meters. The positioning of the KMR in the water meter mount before the outflow shut-off valve means that there is no need to empty and bleed the water pipe behind the backflow preventer. That saves time and above all costs.

### Ball diaphragm backflow preventer

- for nominal sizes DN 20 - DN 50
- with or without test screw
- brass casing, stainless steel cone support
- with or without drain
- available with various thread connections

### Ball membrane backflow preventer water meter connection

- for nominal sizes DN 20 - DN 50
- without test screw, testing possible by undoing connecting nut
- brass casing, stainless steel cone support
- without drain

### Replacement ball diaphragm backflow preventer

- in same version as the original installation in the EWE KMR system
- easily tested and very easy to change

### Ball diaphragm backflow preventer with flange connection

#### Ball diaphragm intermediate flange backflow preventer

- for nominal sizes DN 40 - DN 80
- with broad collar for direct interconnecting
- stainless steel cone support

#### Ball diaphragm flanged backflow preventer

- for nominal size DN 50 - DN 150
- for interconnecting in pipes
- cast iron casing, EPC coated
- stainless steel cone support

#### Ball diaphragm flange backflow preventer

- for nominal sizes DN 50 - DN 200
- with 1/2" test plugs
- cast iron casing, EPC coated
- stainless steel cone support



## EWE flaming off and sampling valves

The EWE flaming range was developed for use at almost every sampling point. The flaming off valves are designed for sampling in conformance with standards. The EWE sampling valve in addition offers the possibility to bleed the domestic connection pipe and to take a sample before installing the water meter.



### Flaming off ball cock with mount

- to be used in EWE water meter systems with integrated drain valve.

### Flaming off drain valve

- to be used temporarily for the possibility of flaming off in place of the normal drain valve
- available in external thread sizes G 1/4" or G 3/8", with self-sealing O-ring

### Flaming off range

moulded foam lined, blue plastic case with:

- flaming drain valve with G 1/4" thread
- flaming drain valve with G 3/8" thread
- flaming ball cock with stainless pipe for an integrated drain valve
- ball cock without stainless pipe with internal Rp 1/4" thread
- hexagon key for hexagon socket head cap screw on the flaming ball cock
- pressure check gauge

### Water meter system with sampling valve

- stainless steel sampling valve, can be flamed off
- with ball shut-off valve and KSR valve or
- with oblique-seat valve and KSR valve with backflow preventer
- the sampling valve is also available as an individual item

### Sampling valve

- in place of the water meter in the water meter system
- to flush the domestic connection system, to measure the flow and static pressure, for water sampling
- brass casing
- inflow external thread for G 1" water meter connection
- with gauge
- built-in flaming valve with stainless steel casing
- stainless steel flaming off pipe
- ball valve at outflow with GEKA coupling for a flushing hosepipe



## EWE distributor and EWE connection fittings

The EWE distribution system is based on a connector system which makes fast provision of drinking water distribution installations possible. The modular principle employed means that all the required types and meter connections can be connected together without special tools. EWE connection fittings and adaptors enable a system-compatible and straightforward connection between water meter system and piping.

### EWE distributor

- EWE distributor system model EPZ
- suitable for EWE water meter system Qn 1.5, Qn 2.5 or Qn 3/7 (Austrian model)
- available in brass in DN 25 and DN 40 versions
- permanent connection, secured by a stainless steel plain rectangular pressure ring
- two O-rings ensure the seal (connection remains rotatable)
- all thread connections fit the EWE O-ring system
- different components are available for every installation situation

### Connection fittings

- all fitting are suitable for the EWE O-ring system

#### PE connections:

- for water
- clamp connector to connect to the PE pipe, made of DR brass or polypropylene
- rotatable brass angle mount for flexible use

#### PE welded hexagon nipple:

- for water and gas
- for all makes of welded sleeve, manufactured in DR brass or lead free brass

#### Coupling:

- for water
- for stress free installation of water meter system
- one side external G 1" thread, other side internal G 1" thread



## EWE water meter pits

EWE water meter pits are intended for installation in pipe trenches. They can be used in many ways, thus for example as domestic connection, as construction site water connection, in the park or allotments, on camping sites or in graveyards and cemeteries. The compact size means that the water meter pit can be easily installed in pipe trenches without extensive excavation. It is surface water proof, hygienically clean and allows frost free operation of EWE water meter systems and the water meter. It is not necessary or possible to enter the EWE water meter pit. The relevant accident prevention regulations do not therefore apply.



### Water meter pit

- for water meters Qn 2.5, Qn 6 or Qn 3/7 (Austrian model)
- pipe cover 1.00 m – 1.75 m
- with water meter systems in various versions
- the EWE water meter system can be easily extracted, the meter can be read and be easily installed or removed.
- pit bodies are in waterproof PE material, grab bar in stainless steel, lockable cover in cast grey iron with seal.
- protection ring surround in PA protects the cover from soil and ensures easy, clean access to the pit
- with EWE insulation cover as additional low temperature insulation and condensate reducer
- both sides brass internal thread Rp 1" (Qn 2.5, Qn 3/7) or Rp 1 1/4" (Qn 6), suitable for the EWE O-ring system
- the water meter pit installation silicon hoses are sheathed in a hardwearing stainless web sleeve for optimum mechanical protection
- traffic loadability of the pit tested to Class A 15 and B 125 (in conjunction with EWE pit surround) according to DIN EN 124
- Supplied without water meter

### Telescopic water meter pit

- as EWE water meter pit
- but telescopic, it is infinitely adjustable in height on site by up to 50 cm to suite the required height for the pipe cover
- specially developed moulded seal between pit and pit body effectively prevents moisture penetrating from the surrounding ground.

### Accessories for water meter shafts

our accessory range for water meter pits includes:

- pit rim for water meter pit cover to increase the traffic loadability to the level of Class B 125
- waterproof pit cover
- EWE extension and pit header to fit to top of pit body to alter the height on site to the local construction conditions
- Pit key to lock the EWE water meter pit

## EWE water meter pits

Pit hydrants, special pits and garden water meter pits complete our comprehensive range for water meter pits. The compact, robust design makes the garden water meter pit particularly suitable for use in frost free conditions, such as parks, allotments or on camping sites.



### Pit hydrant

- for taking water direct from the water meter pit
- e.g. water resulting from construction work
- frost resistant by self activating emptying
- with from one to three brass draw off taps and a GEKA coupling
- optionally with either backflow preventer or BA system diverter
- conduit on all pit pipe cover projecting 50 cm over the pit cover

### Pit set

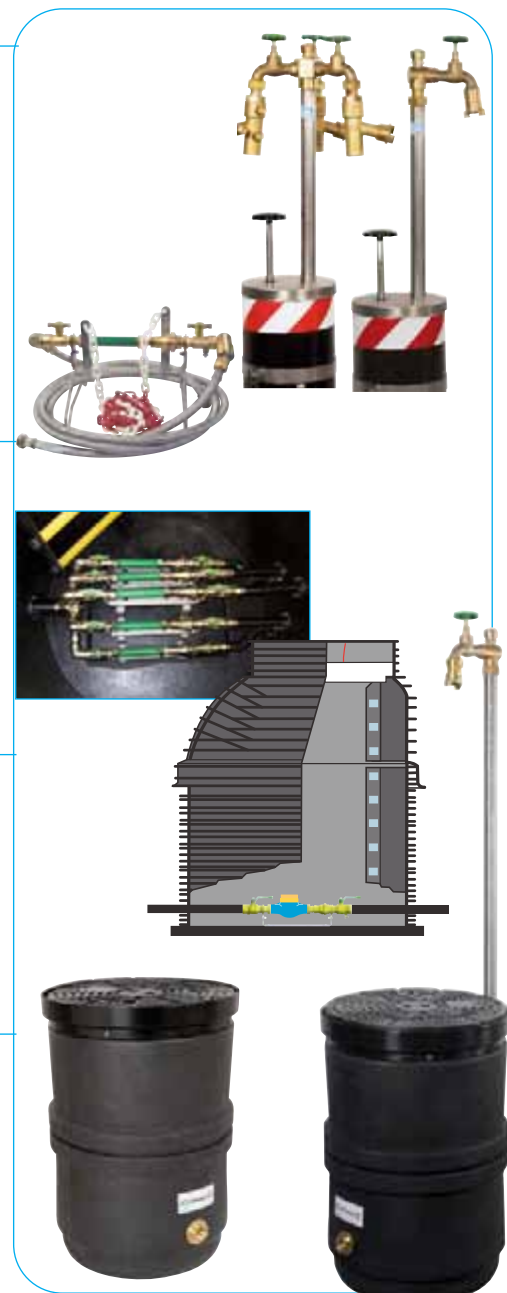
- for installing water meters in existing pits
- available in various versions
- after installation it is not necessary to enter the pit again

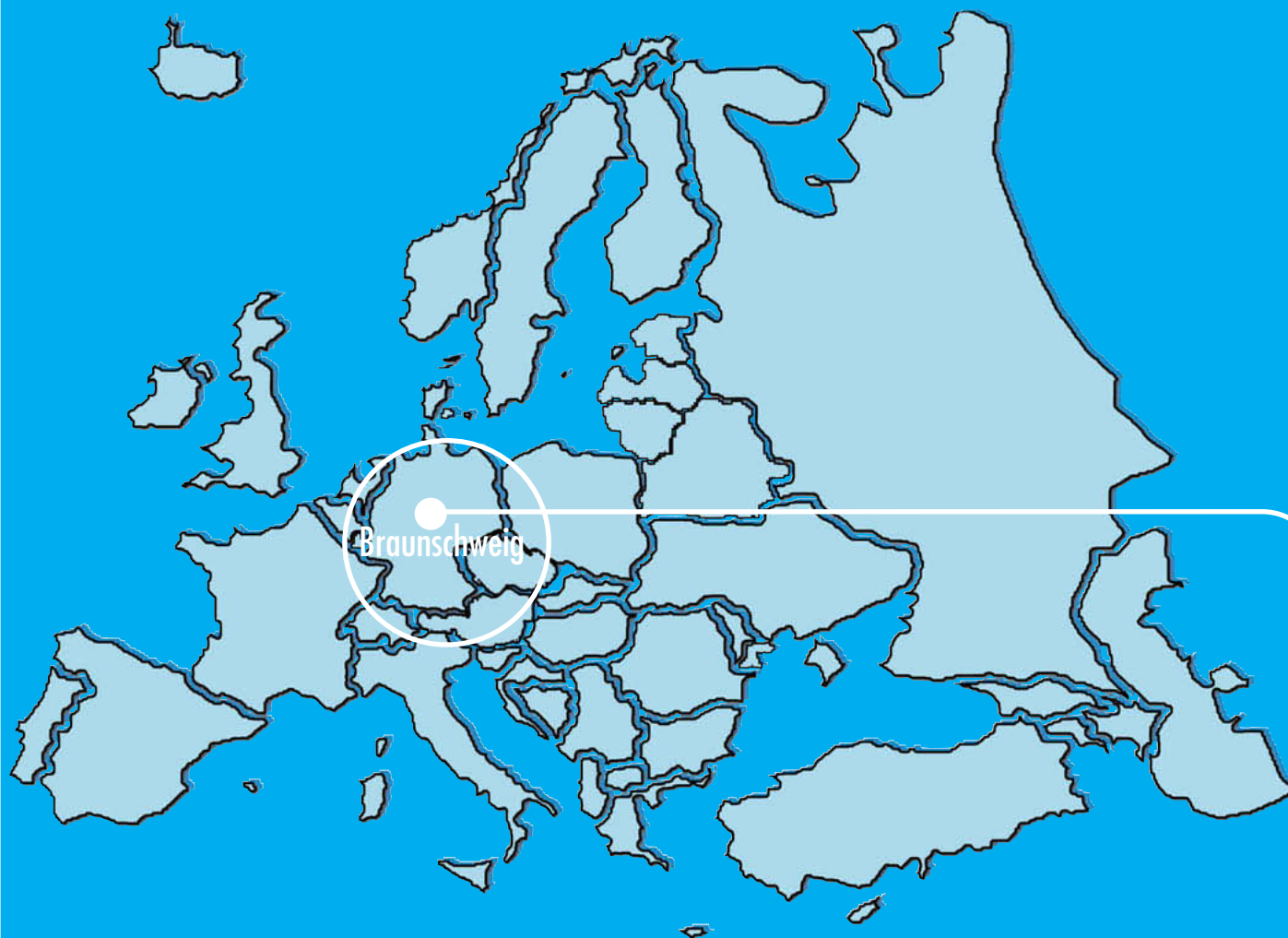
### Special pit in man-sized access version

- man-sized pit in plastic (PE-HD)
- largest internal diameter 1000 mm
- with integrated ladder in PE-HD/GRP and access aid in stainless steel
- equipped as required, e.g. with water meter system Qn 10 or with several meter system sets

### Garden water meter pit with or without tap point

- smaller dimensions than the EWE water meter pit for pipes with less depth of cover
- ensures safe operation of the EWE water meter installation and of the water meter
- not frost resistant
- for water meter Qn 2.5 or Qn 3/7 (Austrian model)





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