Drinking Fountain: WATER BOW

Design: IONDESIGN GmbH, Berlin
Producer: H. & Ph. Behr Giesserei GmbH & Co. KG, Berlin

1. Description

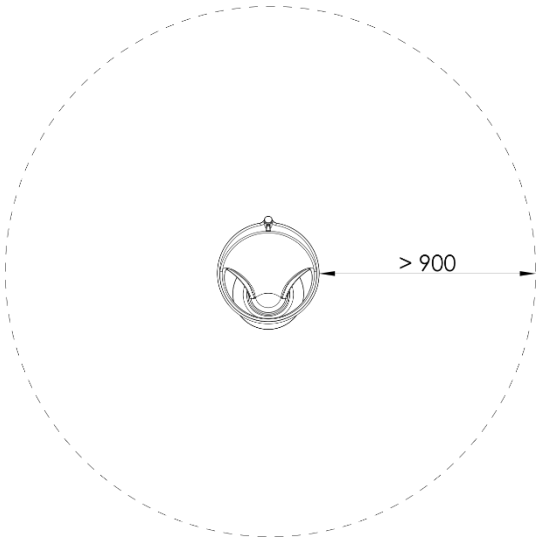
- Drinking water fountain in public spaces for people and animals
- Low-barrier use for adults and children
- Freestanding, accessible from all sides, wheelchair users can approach from all sides, tap accessible from different positions
- Installation in urban environments, parks and green spaces
- Push-button fitting with protected spout
- Water only flows as long as the tap push-button is pressed
- Water flows in a free arc for drinking, rinsing hands and filling drinking bottles
- Animal drinking trough in separate water bowl at the base of the fountain
- robust construction, surface minimised to minimise soiling or vandalism
- Fountain sculpture full of character with high recognition value, curved body appears as if moulded by water
- Awards:
  German Design Award 2025 – Winner
  FOCUS OPEN 2023 – Special Mention
  GOOD DESIGN AWARD 2025
- Internal continuous flushing prevents contamination of standing water
- Shut-off valves, measuring capsule and sampling for inspection accessible behind lockable inspection flap on the back.



2. Location

When selecting the location,

ensure that the site conditions are suitable (load-bearing capacity of the ground, slope, clearance areas). To ensure barrier-free access, a clearance area of 900 mm must be maintained around the drinking fountain. For planning and connection, contact the local water utility. The drinking fountain can be installed and dismantled without the use of heavy equipment.



3. Structure variants

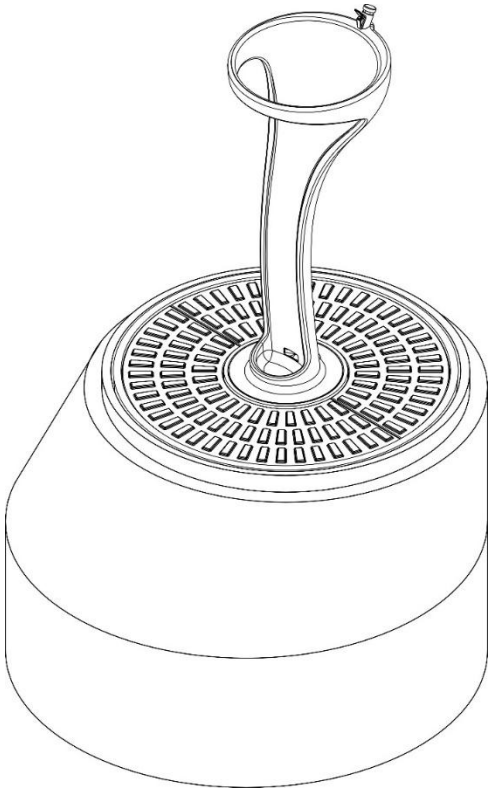
Two variants according to requirements and local conditions.

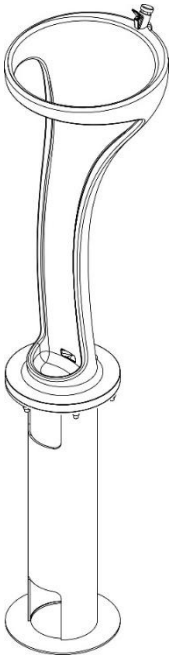
Standard well shaft variant

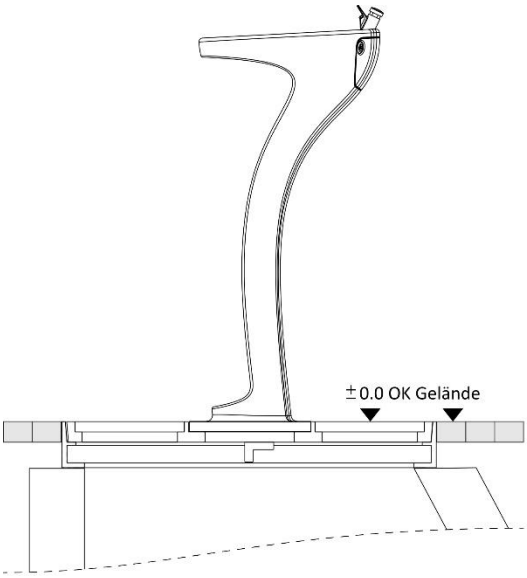
Well with 2 base plates in the frame inserted into a well shaft with shaft cover (ACO M-Topp Plus, class D400 LW.800 art. no. 210609) provided by the customer

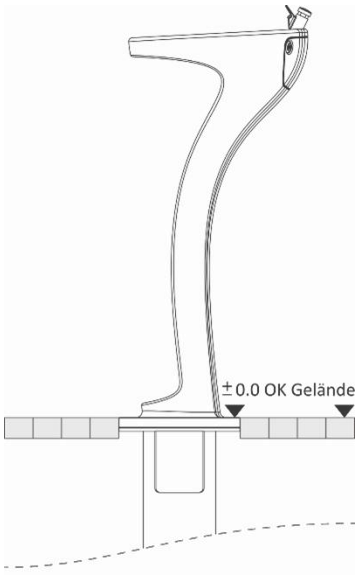
Prefabricated steel foundation variant

Fountain mounted on the prefabricated steel foundation supplied, floor covering flush-mounted.

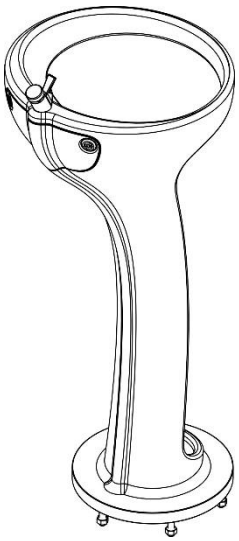








4. Scope of delivery

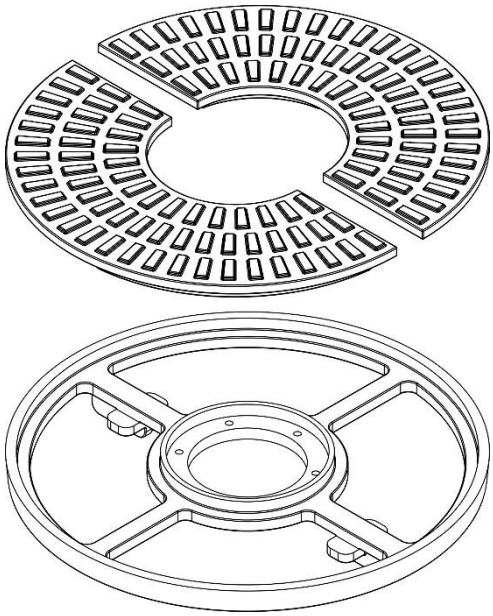


Fountain body

- Hollow fountain body with faucet
- Inspection flap with 2 locks (double-bit key)
- Internal pipework
- bolts for bolting to manhole cover or prefabricated foundation
- Screw nuts

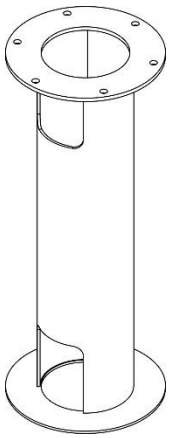
Standard well shaft variant

Floor panels in frame



Prefabricated steel foundation variant

Prefabricated steel foundation for backfilling in an earth shaft.



5. Installation

Preparation

- Contact the local water supplier for planning and connection
- Observe the distance from the main connection to the drinking fountain
- For the best possible water quality, connection to ring main with flow divider (e.g. Kemper) recommended
- to be checked according to local conditions: Water meter, drain valve, shut-off valve in the well shaft, in a separate shaft or in a nearby building
- Lay the supply and wastewater pipe, drainage if necessary, in consultation with the local water supplier

Installation with material to be provided by the customer

Standard well shaft variant

- Excavation of the earth shaft
- Installing the well shaft (precast concrete parts)
- Attach the frame of the standard shaft cover to the well shaft (ACO M-Topp Plus, class D400 LW.800 art. no. 210609)
- Install water inlet and outlet pipes with shut-off valves in the shaft
- Remove the standard manhole cover provided by the customer (if necessary, keep it for the winter break)
- To avoid tripping hazards, connect the surrounding surface to the edge of the manhole without thresholds (paving, floor slabs, water-bound path surface)

Prefabricated steel foundation variant

- Excavation of the earth shaft
- Install water inlet and outlet pipes
- Install valves and water meter in a separate shaft or in directly neighbouring buildings
- Provide an external device for shutting off the water and ensuring that there is no water in winter
- After installing the well, backfill the shaft, prepare the surrounding surface at the base of the well (paving, floor slabs, water-bound path surface)

Installation with delivered material

Standard well shaft variant

- Insert the new frame into the standard well frame, fasten using brackets with M12 bolts/nuts



- Attach the body, fix with M12 nuts
- Connect the supply and wastewater pipes
- Disinfect / clean
- Insert and screw on the supplied covers

Prefabricated steel foundation variant

- Lay the prefabricated steel foundation
- Place well body on top, fix with M12 nuts
- Connect the supply and wastewater pipes
- Disinfect / clean

6. Implementation

To set the continuous flush, open the inspection cover at the rear of the fountain using the double-bit spanner supplied.



Set the desired flow rate at the right-hand angle valve. Check the flow rate by looking into the open spout. Check the flow rate regularly, as significant changes in temperature or water pressure can affect the valve's flow rate.



Use the screw on the front of the fitting to adjust the water jet so that it hits the centre of the inner surface of the fountain in an arc without splashing.

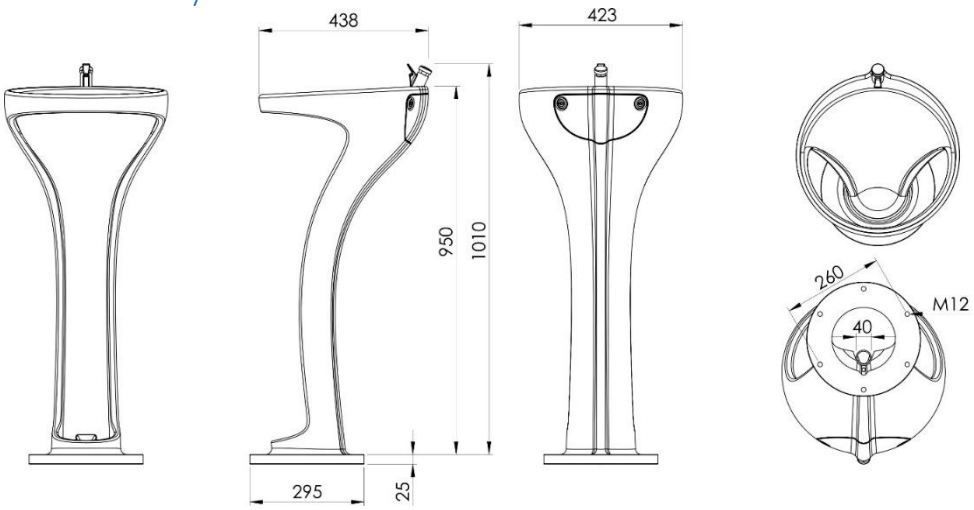
Note: The ideal aiming point of the water jet is approx. 30 cm below the top edge of the fountain.



Drinking fountains must be cleaned at regular intervals, and the continuous flushing system and drain must be checked and cleared of any blockages.
The quality of the drinking water must be checked regularly. Drinking fountains provide drinking water to the public. They are therefore subject to the Drinking Water Ordinance (TrinkwV) and, consequently, to monitoring by the responsible public health department (see DVGW Information Sheet W 274 (M), January 2022).

7. Dimensions and Material

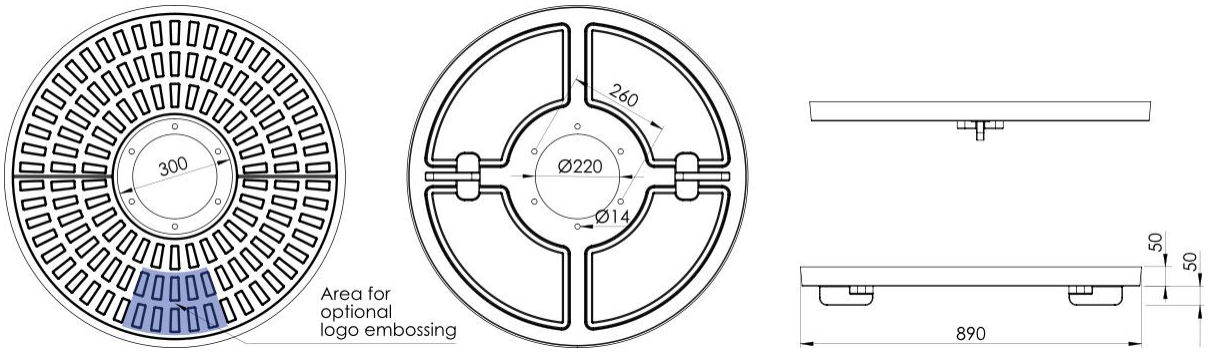
Fountain body



Fountain body: top ring Ø 423mm, base Ø 295mm
Height of fountain body: 950mm, height of fitting: 60mm, total height: 1010mm above top edge of pavement
Opening size of inspection flap: approx. 240mm x140mm
Weight: approx. 17kg
Material / surface:

- Fountain body made of cast aluminium G-AlSi9Mg
- All visible surfaces of the fountain body powder-coated (powder coating: Interpon D 2525 Futura Collection Sumela, colour Y2208I sand silver, C5 = heavy corrosion protection)
- Other colours / surfaces on request;
- Surface easy to clean, not rough, resistant

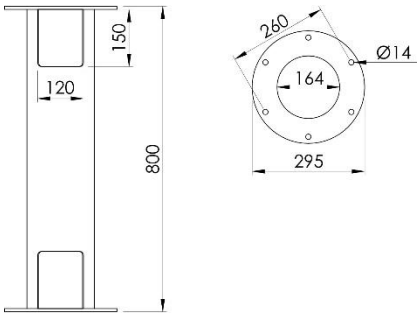
Base panels in the frame



2 half floor plates: weight approx. 15kg each
in the frame: Ø 890mm x height 100mm, weight: approx. 20kg
Material / surface:

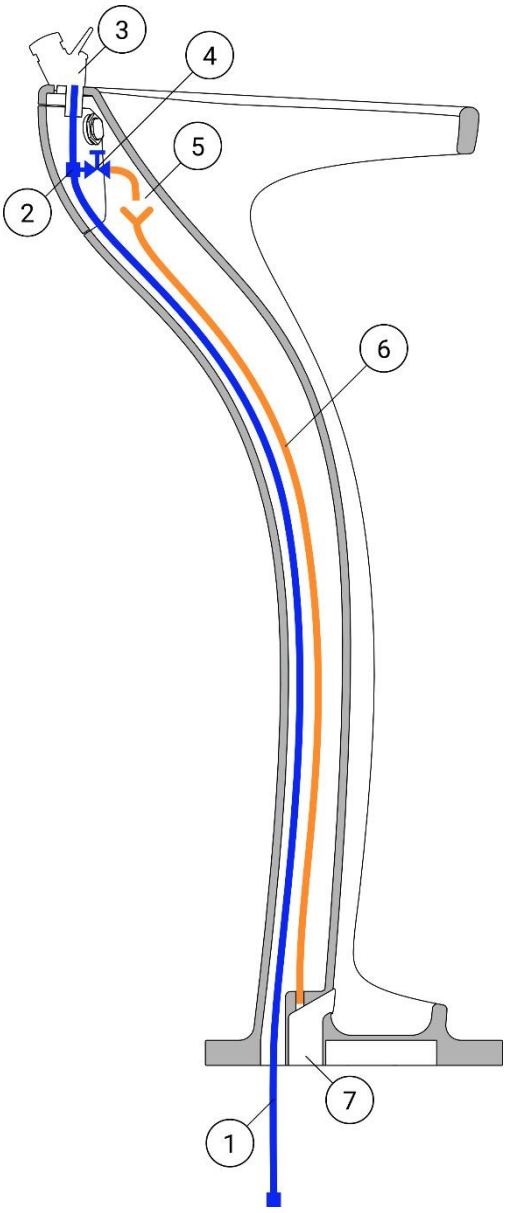
- Base plates in frame in cast aluminium, powder-coated (powder coating: colour DB 703)
- Customisation optional at extra cost: insertion of an individual logo relief
- Suitable for installation in manhole cover (ACO M-Topp Plus, class D400 LW.800 item no. 210609)

Steelfoundation



Height: Ø 295mm x height 800mm
Weight: approx. 20kg
Material / surface:
· Welded steel, galvanised

8. Components in the order of water flow



1. Inlet pipe
   · Ø 8mm copper pipe
   · with a ½" threaded connection

2. red brass fittings

3. drinking fountain faucet with self-closing mechanism

4. angled valve
   · setting continuous flush

5. free outlet

6. drainpipe
   · Ø 8mm pipe for dripping water

7. drain
   · Outside diameter 40mm

All components that come into contact with drinking water (with the exception of the faucet) are certified for drinking water use in accordance with DVGW standards. The faucet has a hygiene certificate from the manufacturer, including a declaration of conformity with the relevant regulations, such as the Drinking Water Ordinance (TrinkwV).

A combined free-flow valve with a backflow preventer and testing device, and, if necessary, a pressure reducer, should be installed upstream of the well.
Drainage should be via a siphon and a check valve.
Details regarding this should be discussed with the local water utility.

9. Water Consumption

One drop of water is approximately 0.05 ml to 0.1 ml.

Set to 1 drop per second (0.1 ml/drop):
· Per day: approx. 8.6 liters
· Per month: approx. 259 liters
· Per season (6 months): approx. 1,555 liters

Set to larger drops (0.6 ml/drop):
· Per day: approx. 52 liters
· Per month: approx. 1,555 liters
· Per season (6 months): approx. 9,331 liters

10. Producer

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11. Design

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12. NOTES

Registered European design: EUIPO 009192099-001

Please observe the specifications for the installation of drinking water wells: “Technical Note - Code of Practice DVGW W 274 (M) January 2022, Planning, construction and operation as well as self-monitoring of public drinking water wells” and the regulations of the local water operators.