

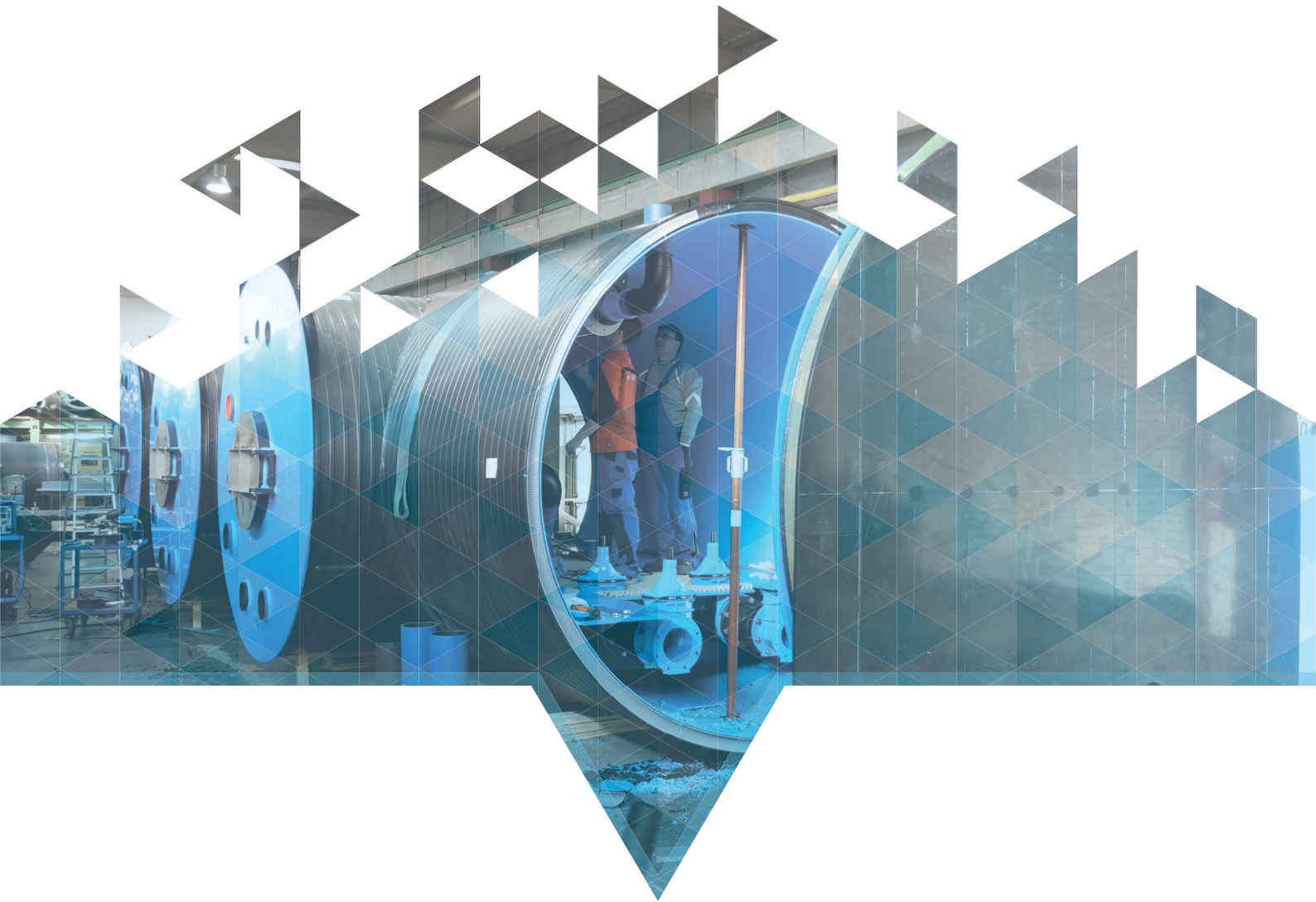
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# hawle kunststoff



## Projects & References

Project reports from potable water,  
sewage water & industrial technology

# The sustainable end-to-end solution

## Plastic shafts made from PP and PE-HD

Our system is based on the plastic profiled winding pipe which can be produced from DN 300 up to DN 3500. Shafts made from polypropylene or polyethylene are remarkably durable with an useful life up to 100 years. The used plastics present the characteristics of high chemical and abrasion resistance.

Thermoplastic synthetics have a high impact strength. Stress crackings or mechanical damage can be almost eliminated. Polypropylene as well as Polyethylene can be recycled completely into mono-materials.

Constructions made of plastic boast a high level of prefabrication. This enables fast and efficient laying on site. Consequently storage tanks up to 150 cbm can be delivered in one piece. Manhole, bottom part and cover as well as pipe openings are completely welded together to ensure a sustainable watertightness. The low weight facilitates transport and logistic of the manhole.

Hawle Kunststoff offers all common connection technologies as Plug-in connection, extrusion or electro fusion welding. The extrusion welding from the inside of the manhole (from  $\geq$  DN 800) guarantees a continuous seamless inner surface which ensures a good self-cleaning function especially appropriate for sewage water use.

Furthermore manholes distinguish themselves by a clear, inspection friendly inner surface and a very low roughness. Due to these good hydraulic properties nucleation and deposition of germs in the pipe and manhole can be reduced. Constructions made from PE and PP are free from solvents which could affect the quality of potable water.

## Advantages of plastic constructions

- ▶ Prefabricated at the plant
- ▶ Short delivery periods
- ▶ Very fast installation on site
- ▶ Low weight
- ▶ Long-lasting material
- ▶ Absolutely noncorrosive
- ▶ Absolutely leak-proof





# Materials and pipe profiles

## Structure of the profile types

Pipes for underground installed ducting or storage systems have to be long-lasting as well as cost-effective. For this reason we have developed and patented the profiled winding technology for PEHD and PP already in 1956. The profiled winding pipe provides higher ring stiffness and simultaneous reduction of material compared to a solid wall pipe.

The durability of our pipe systems is assured by the material PEHD and PP. Both materials offer a high chemical and abrasion as well as temperature resistance. Furthermore both plastics are flexible and shock-resistant enough, in order to avoid damages during installation or fine cracks even at temperatures below 0°C.

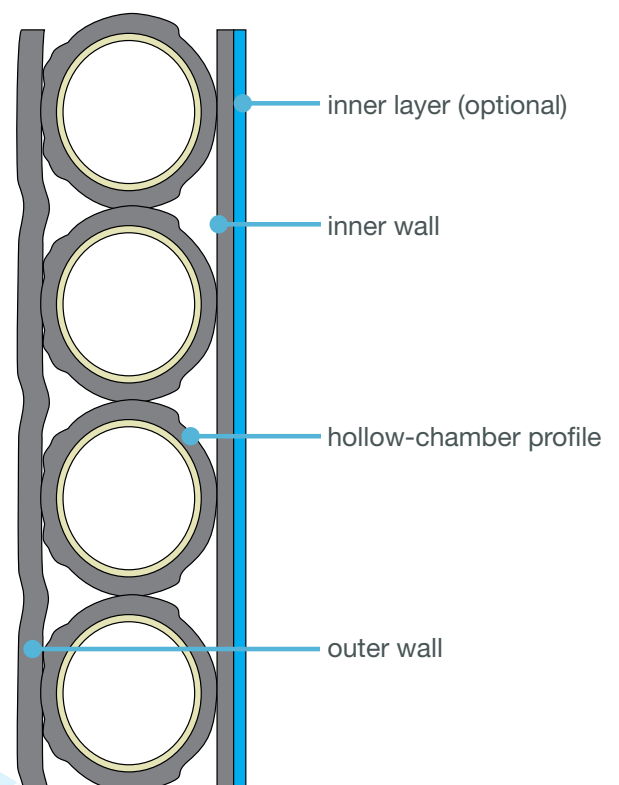
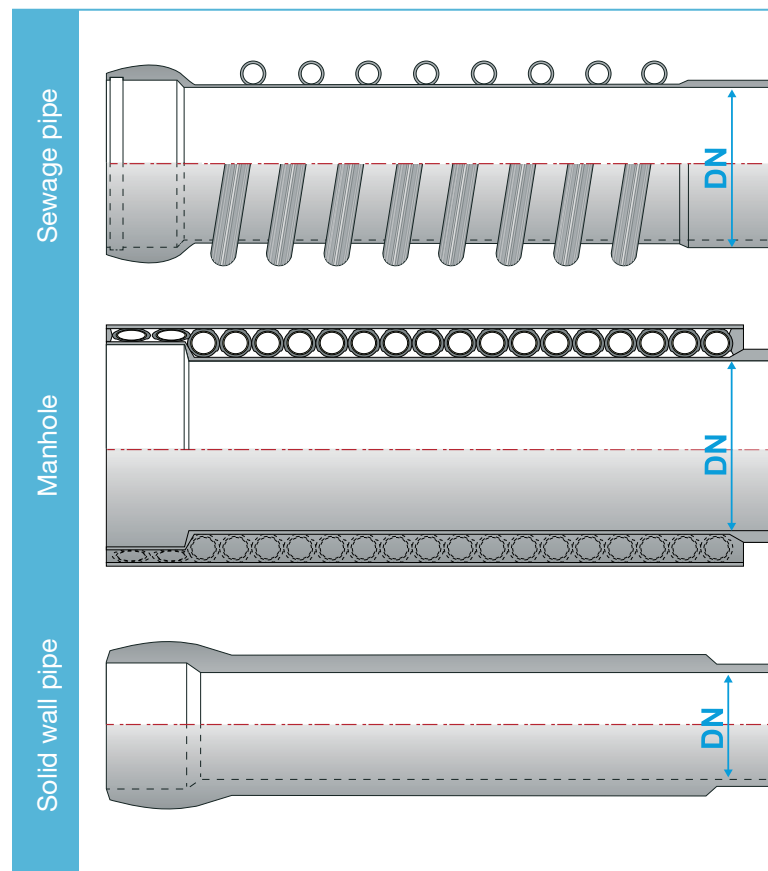
Due to the smooth and non-porous surface of PEHD and PP our pipe system is ideal for the drinking water sector and easy to clean. Solvents, which could reinforce the growth of microorganisms are not used for the production.

The wall structure of our pipes comprise a inner solid wall, which could include an inner layer with a light inspection-friendly colour (e. g. light blue or yellow). Over this layer we put a coating with round profiles, which bonds permanently and provides high ring stiffness.

The outside bounding can consist again of a solid wall layer if required for example for manholes, fittings or moulded parts. The standard colour for PEHD-pipes is black for PP-pipes light grey.

All nominal diameters can be connected with the extrusion welding technique. The plug-in connection is available for nominal diameters up to DN 1800 and the electro fusion welding is suitable for pipes up to DN 1200. Both can be mounted on the construction site without our fitters.

Our pipe system is manufactured in accordance to the requirements of DIN EN 13476. Moreover we provide test certificates for both materials pursuant to DVGW Code of Practice W 270 and KTW guidelines of the Federal Environmental Agency. The pipes can be recycled into mono-materials at the end of the expected 100 years lifespan.

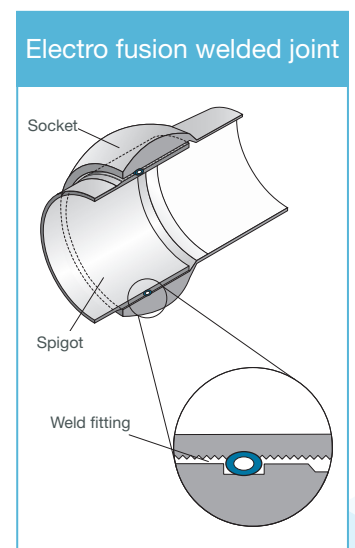
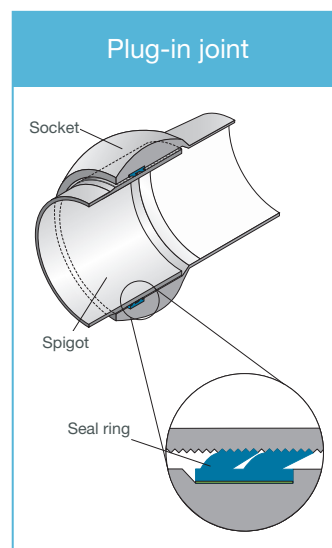
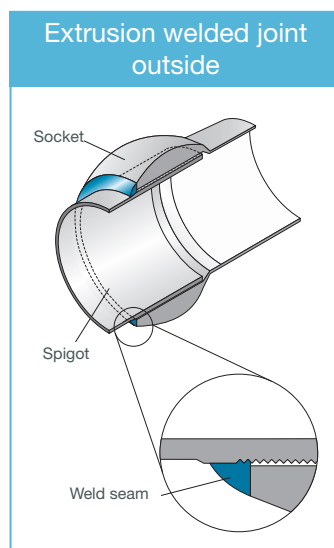
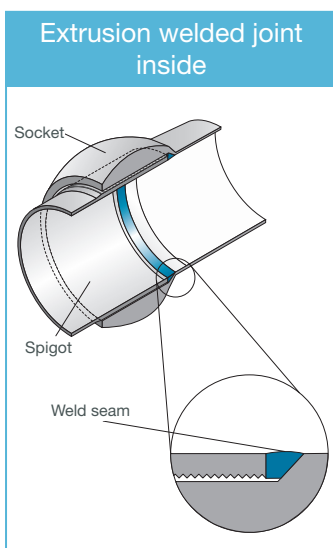


# Sewage pipe, manhole, solid wall pipe

Pipe system with different connection types

Nominal diameter DN [mm]	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1800	2000	2300	2500	2600	3000	3400	3500
Outside diameter * [mm]	390	490	590	690	790	890	990	1090	1190	1330	1430	1530	1630	1730	2000	2200	2500	2700	2800	3200	3600	3700
Max. length [m]	5,90	5,90	5,90	5,90	5,90	5,90	5,90	5,90	5,90	5,90	5,90	5,90	5,90	5,90	5,90	5,75	5,75	5,75	5,75	5,50	5,50	5,50
Weight * [kg/m]	12	15	19	23	26	30	34	37	45	55	60	64	75	90	104	115	159	201	365	421	477	491
Storage volume [cbm/m]	0,07	0,13	0,20	0,28	0,38	0,50	0,64	0,79	0,95	1,13	1,33	1,54	1,77	2,01	2,54	3,14	4,15	4,91	5,31	7,07	9,08	9,62
Extrusion welding connection	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Plug-in connection	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							
Electro fusion welding connection (only PEHD)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	in preparation											
Bendings 5° - 90°	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
House connection, screwed/welded ex works, DN as required	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
House connection for tapping, screwed, DN 150	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓												
House connection for tapping, welded, DN 150	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓												
Manhole connection w/ welded joint	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Manhole connection w/ push fit joint	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							
Manhole liner connection w/ push fit joint	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓												

\* The given values are an approximate indication. The actual values depend on the project-specific installation conditions and the delivered wall thickness.





# Fire fighting water tank

Delivery in two parts with welding on site



## Project details:

<b>Construction:</b>	Tank in two parts
<b>Length:</b>	21 m
<b>Nominal diameter:</b>	DN 2500
<b>Effective volume:</b>	96 m <sup>3</sup>
<b>Connection:</b>	Extrusion welding
<b>Load class:</b>	SLW 60

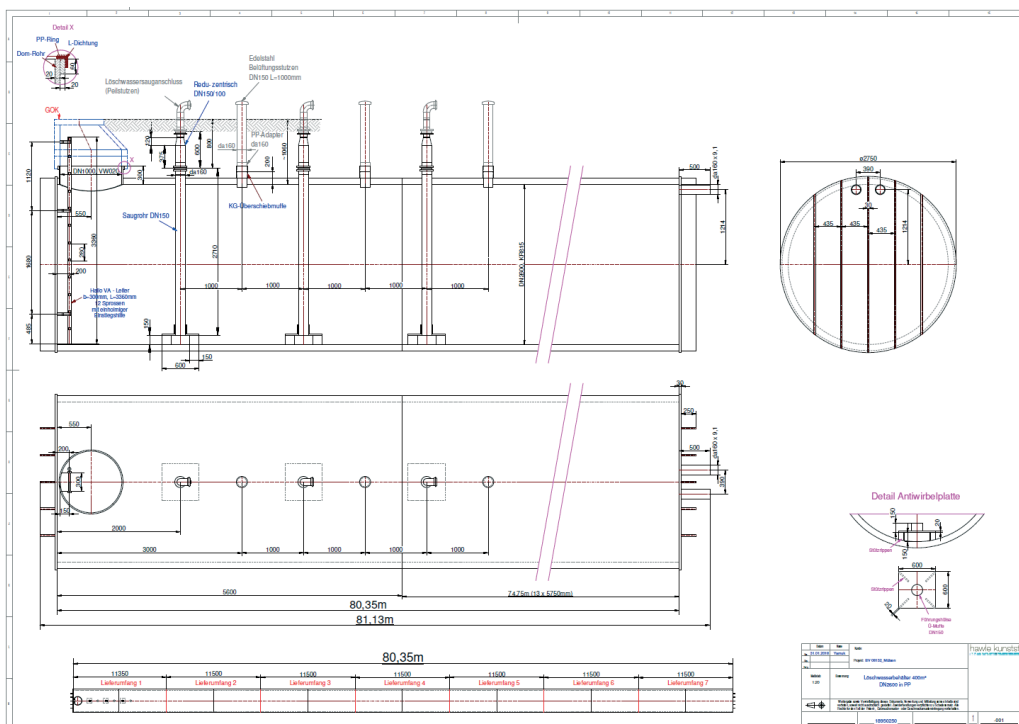




## Fire fighting water tank for the ADAC Rennsportarena Mülsen-Sachsenring



<b>Construction:</b>	Fire fighting water tank
<b>Length:</b>	80 m
<b>Nominal diameter:</b>	DN 2600
<b>Effective volume:</b>	400 m <sup>3</sup>
<b>Connection:</b>	Extrusion welding





# Fire fighting water tank

Fire fighting water tank for a logistics center moved within only 2 hours



## Project details:

<b>Construction:</b>	Tank in three parts
<b>Length:</b>	24 m
<b>Weight:</b>	5.200 kg
<b>Nominal diameter:</b>	DN 2500
<b>Effective volume:</b>	220 m <sup>3</sup>
<b>Connection:</b>	Extrusion welding





# Fire fighting water tank

Fire fighting water tank for an exclusive residential project in Jena



## Project details:

<b>Construction:</b>	Fire fighting water tank
<b>Length:</b>	11 m
<b>Weight:</b>	3.800 kg
<b>Nominal diameter:</b>	DN 2500
<b>Connection:</b>	Extrusion welding





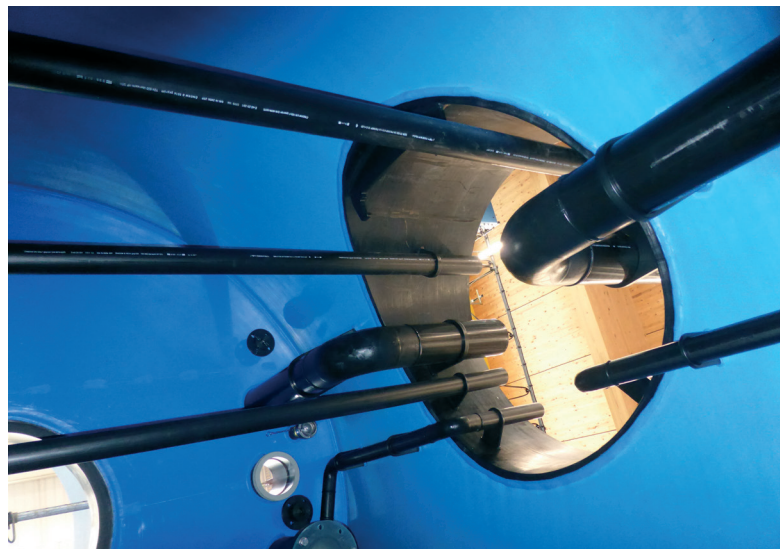
# Spa water reservoir

Reservoir for the iodine-sulphur spring at a spa in Bavaria



## Project details:

<b>Construction:</b>	Spa water reservoir
<b>Length:</b>	14 m
<b>Weight:</b>	8.500 kg
<b>Nominal diameter:</b>	DN 3000
<b>Special features:</b>	Buoyancy control with geotextile





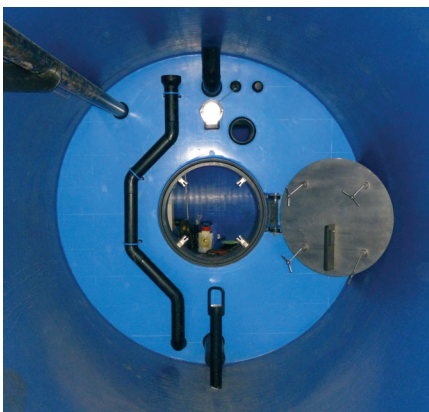
# Potable water reservoir

Embedding of two parallel arranged water reservoirs near Bukarest (Romania)



## Project details:

<b>Construction:</b>	2-chamber system of pipes
<b>Length:</b>	Per reservoir pipe: 30 m Valve chamber: 12 m
<b>Weight:</b>	9.000 kg (valve chamber)
<b>Nominal diameter:</b>	Per reservoir pipe: DN 2600 Valve chamber: DN 3000
<b>Effective volume:</b>	2 x 150 m <sup>3</sup>
<b>Connection:</b>	Extrusion welding
<b>Special features:</b>	Valve chamber manufactured in one piece with pre-installed valves incl. 7 well feeds, watertreatment with UV-unit, control cabinet and pressure boosting system





# Potable water reservoir

Reservoir with 2 x 150 m<sup>3</sup> effective volume



## Project details:

<b>Construction:</b>	Potable water reservoir
<b>Length:</b>	incl. valve chamber: 19 m
<b>Weight:</b>	valve chamber: 4.500 kg per reservoir pipe: 4.500 kg
<b>Nominal diameter:</b>	DN 3000
<b>Effective volume:</b>	2 x 150 m <sup>3</sup>





# Potable water reservoir

Construction of two water reservoirs and total effective volumem of 100 m<sup>3</sup>



## Project details:

<b>Construction:</b>	2-chamber system of pipes
<b>Length:</b>	Reservoir pipes je 10 m
<b>Weight:</b>	14.000 kg
<b>Nominal diameter:</b>	DN 3000
<b>Special features:</b>	pump unit





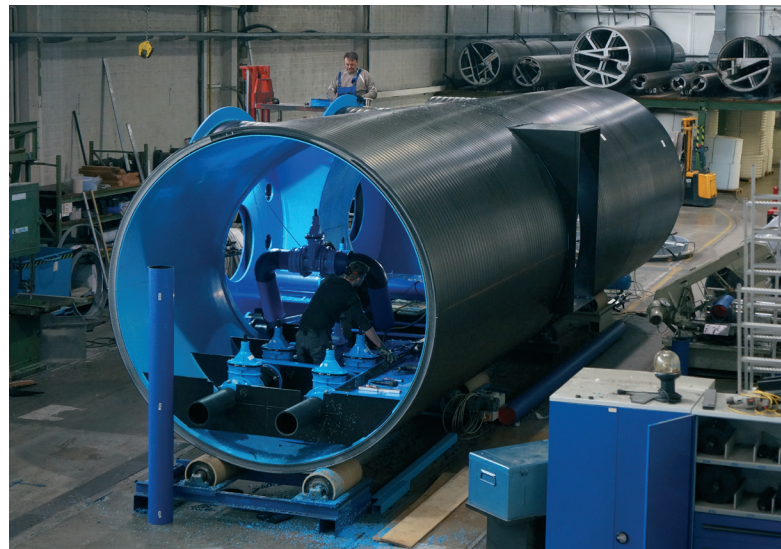
# Potable water reservoir

Water reservoir made of PEHD for the Energie und Versorgung Butzbach GmbH



## Project details:

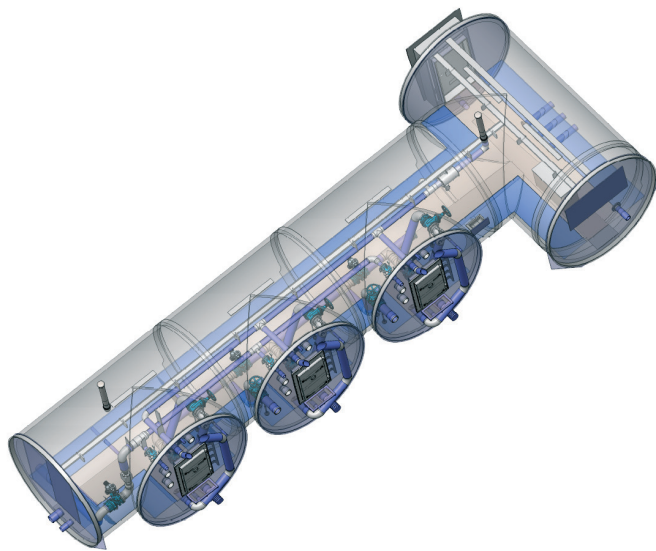
<b>Construction:</b>	3-chamber system of pipes
<b>Length:</b>	Elements je 6 m
<b>Weight:</b>	Valve chamber: 12.000 kg
<b>Nominal diameter:</b>	DN 2600
<b>Effective volume:</b>	500 m <sup>3</sup>
<b>Special features:</b>	Valve with Auma-drive unit





# Potable water reservoir

Follow-up project for the Energie und Versorgung Butzbach GmbH

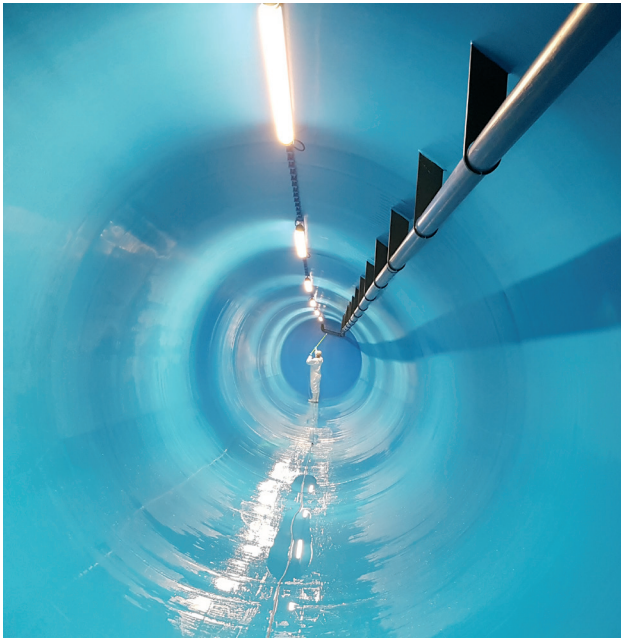


## Project details:

<b>Construction:</b>	3-chamber system of pipes
<b>Length:</b>	3 x 30 m reservoir pipes
<b>Nennweite:</b>	Reservoir pipes: DN 3000
<b>Nominal diameter:</b>	Valve chamber: DN 3400
<b>Special features:</b>	Calculated construction period: Dec / Jan / Feb



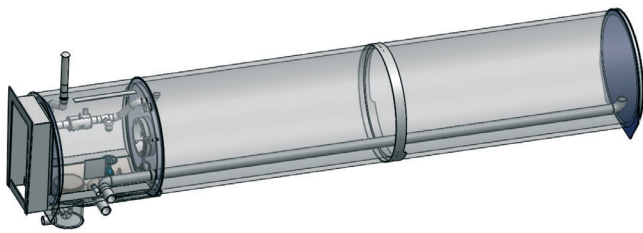






# Potable water reservoir

Suction tank for potable water with 50 m<sup>3</sup> effective volume



## Project details:

<b>Construction:</b>	Suction tank for potable water
<b>Length:</b>	15 m
<b>Weight:</b>	6.000 kg
<b>Nominal diameter:</b>	DN 2500





# Potable water reservoir

Construction of two reservoir pipes with 60 m<sup>3</sup> effective volume each



## Project details:

<b>Construction:</b>	2-chamber system of pipes
<b>Length:</b>	Valve chamber: 8 m Reservoir pipes: 16 m
<b>Nominal diameter:</b>	Valve chamber: DN 3000 Reservoir pipes: DN 2600
<b>Effective volume:</b>	120 m <sup>3</sup>





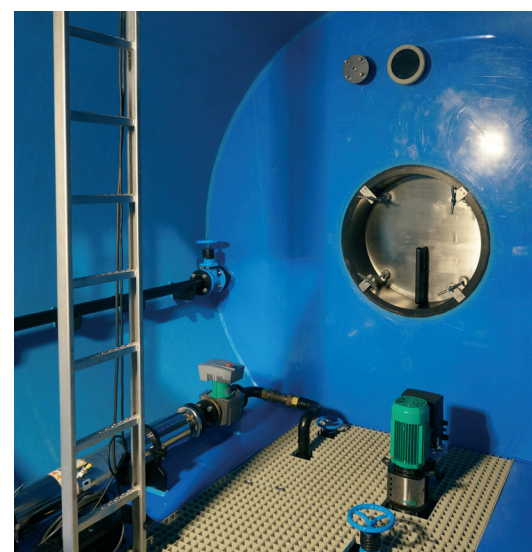
# Potable water reservoir

Construction of a potable water reservoir as spare tank in case of a breakdown



## Project details:

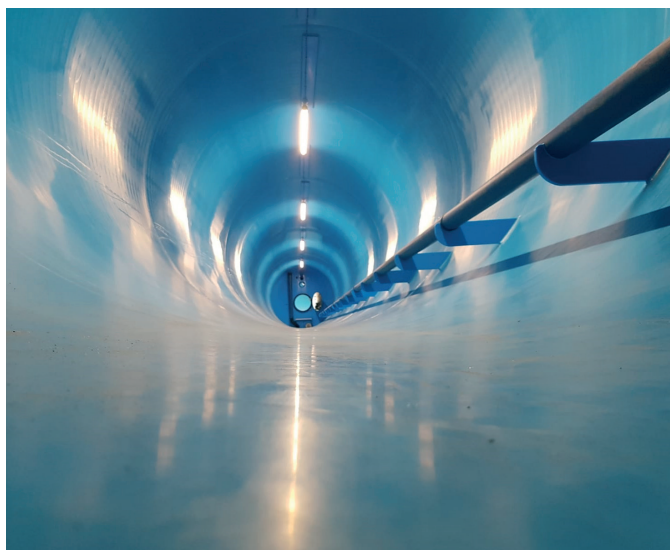
<b>Construction:</b>	Potable water reservoir
<b>Length:</b>	12,5 m
<b>Weight:</b>	9.100 kg (total)
<b>Nominal diameter:</b>	DN 3000
<b>Effective volume:</b>	70 m <sup>3</sup>
<b>Special features:</b>	incl. Hawle valves an on-site supply with WILO-pumps and UV-unit





# Potable water reservoir

Modern PE-reservoir replaces old concrete tank



## Project details:

<b>Construction:</b>	3-chamber system of pipes
<b>Length:</b>	Valve chamber: 14 m Reservoir: 30 m
<b>Nominal diameter:</b>	DN 3000
<b>Effective volume:</b>	600 m <sup>3</sup>





# Potable water reservoir

Two PE-pipe storage with 100 m<sup>3</sup> effective volume each

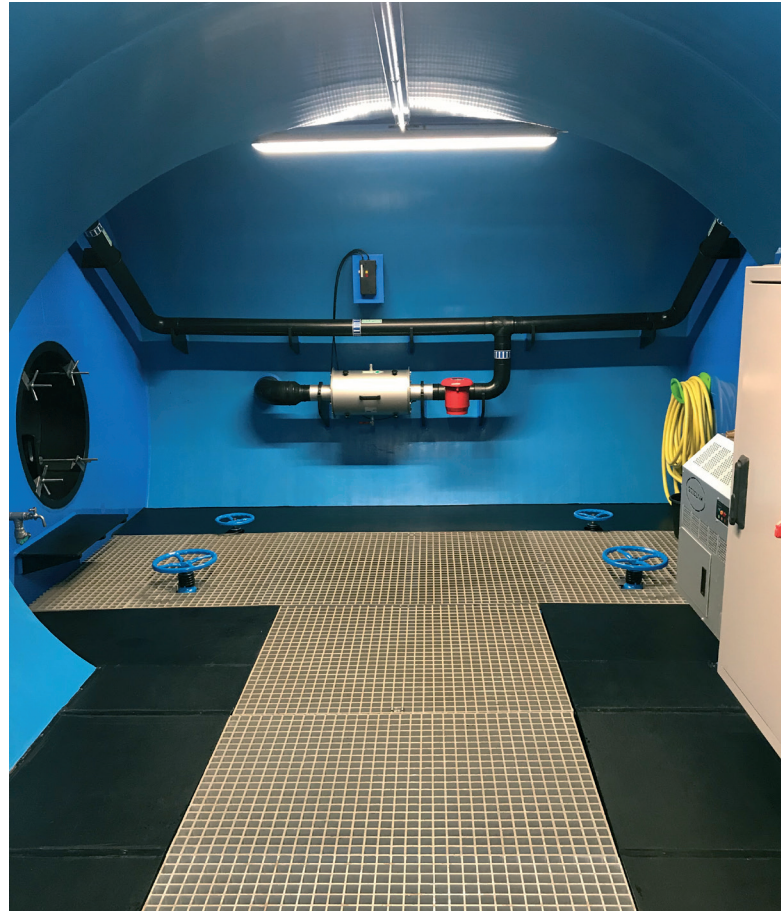


## Project details:

<b>Construction:</b>	2-chamber system of pipes
<b>Length:</b>	34 m (gesamt)
<b>Weight:</b>	21.000 kg with valve chamber 5.000 kg
<b>Nominal diameter:</b>	DN 3000
<b>Effective volume:</b>	2 x 100 m <sup>3</sup>
<b>Special features:</b>	Buoyancy control with liquid soil



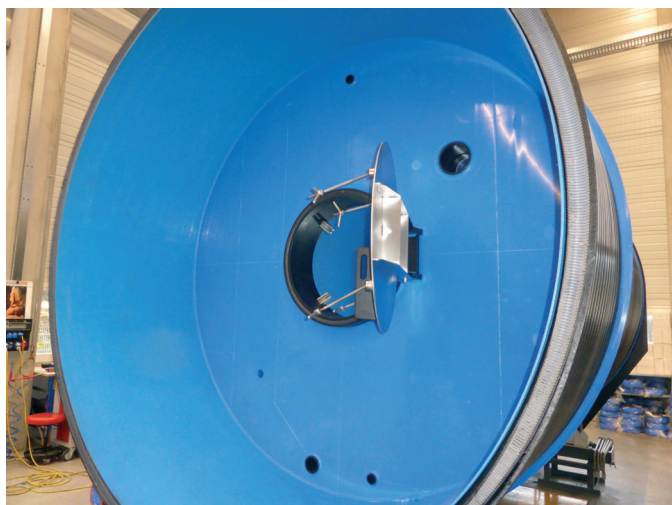






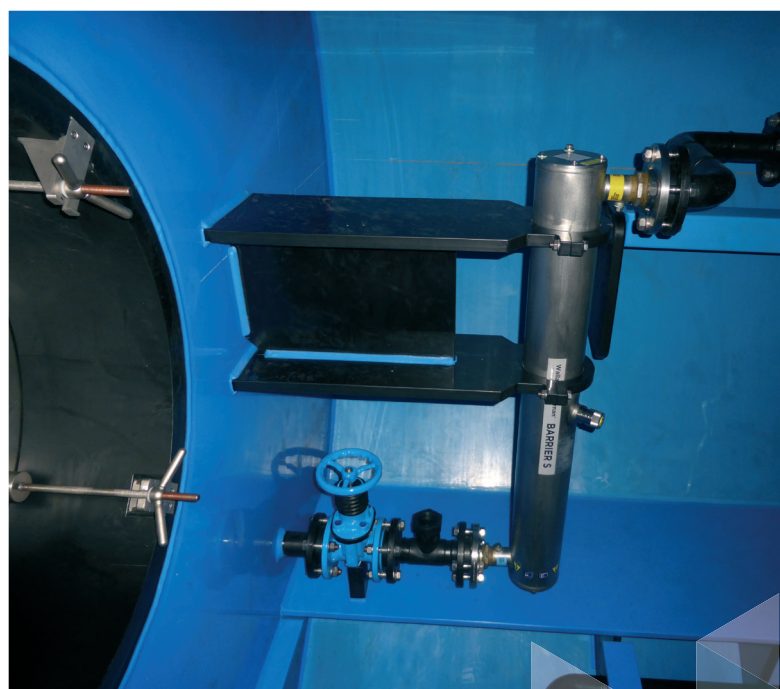
# Potable water reservoir

Elevated tank with UV-unit, turbidity measurement and pressure reducing valve



## Project details:

<b>Construction:</b>	Potable water reservoir
<b>Length:</b>	5 m
<b>Weight:</b>	4.200 kg
<b>Nominal diameter:</b>	DN 3000
<b>Effective volume:</b>	ca. 7 m <sup>3</sup>
<b>Special features:</b>	Valve with Auma-drive unit, UV-system, turbidity measurement, pressure reducing valve





# Well shaft

New construction of a well shaft with front entry



## Project details:

<b>Construction:</b>	Well shaft
<b>Weight:</b>	5.000 kg
<b>Nominal diameter:</b>	DN 3000
<b>Special features:</b>	Wellhead DN 800, Inspection opening DN 600





# Well shaft

New construction of a well shaft with front entry by stainless steel door



## Project details:

<b>Construction:</b>	2 Well shafts
<b>Nominal diameter:</b>	DN 3000
<b>Weight:</b>	3.500 kg
<b>Special features:</b>	Wellhead DN 800 Inspection opening for pump DA 600





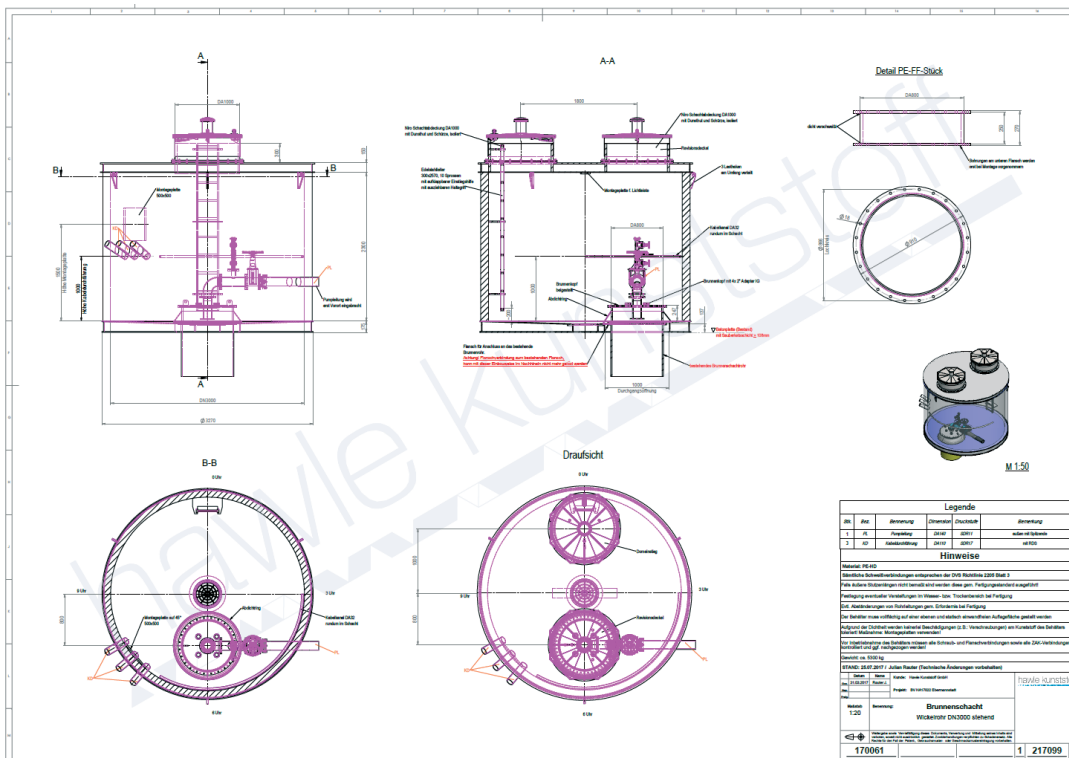




## Renovation of a well shaft with Domseinstieg with entry from above



<b>Construction:</b>	Well shaft
<b>Weight:</b>	5.300 kg
<b>Nominal diameter:</b>	DN 3000
<b>Special features:</b>	Wellhead DN 800





# Source collection chamber

Two source collection chambers with front entry



## Project details:

<b>Construction:</b>	Source collection chamber 1/2
<b>Weight:</b>	810 kg / 1.165 kg
<b>Nominal diameter:</b>	DN 1500 / 2000
<b>Special features:</b>	Hawle gate valve DN 80/100/150





# Source collection chamber

Horizontal source collection chamber with 5 inflows



## Project details:

<b>Construction:</b>	Source collection chamber
<b>Length:</b>	2,8 m
<b>Weight:</b>	2.300 kg
<b>Nominal diameter:</b>	DN 2500
<b>Special features:</b>	5 inflows





# Source collection chamber

New spring tapping for a water supply association



## Project details:

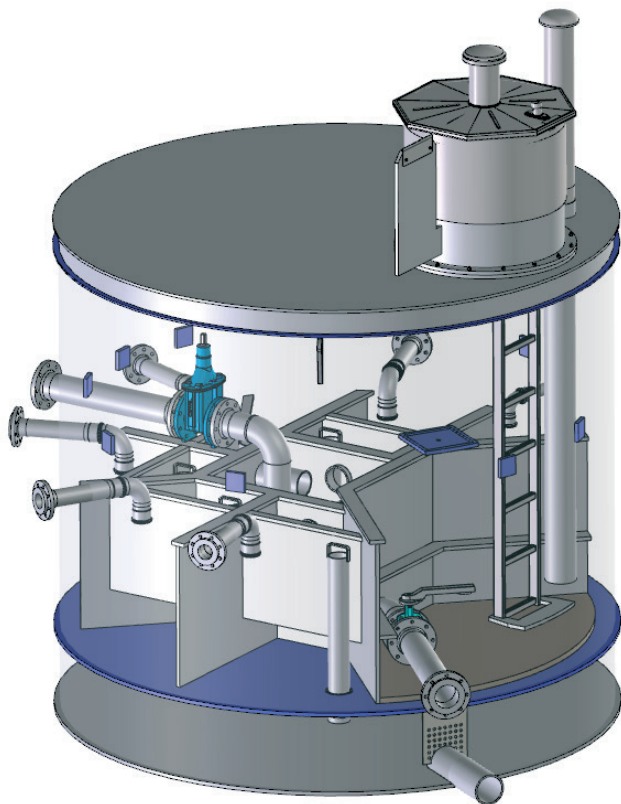
<b>Construction:</b>	Source collection chamber
<b>Weight:</b>	750 kg
<b>Nominal diameter:</b>	DN 1500
<b>Special features:</b>	Spring tapping, filling with gravel, collection chamber, drainage pipe, 2 inflows, 2 stainless steel measuring weirs for fill measurement





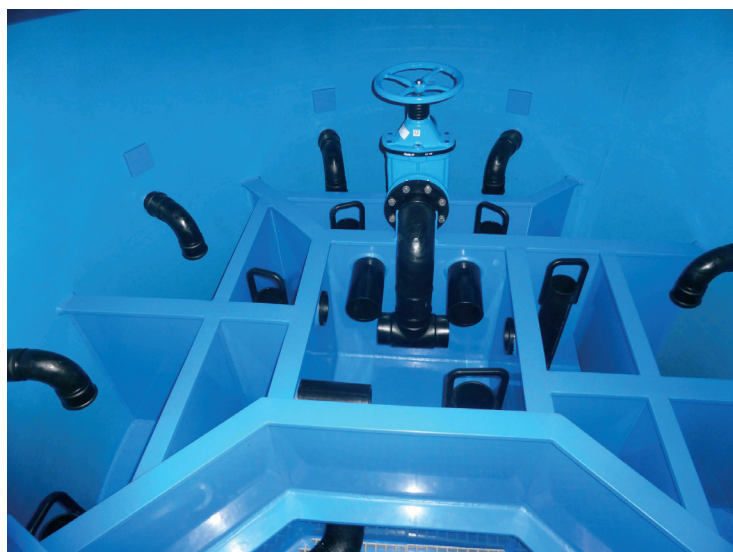
# Source collection chamber

Source collection chamber with 7 inflows in total



## Project details:

<b>Construction:</b>	Source collection chamber
<b>Weight:</b>	1.700 kg
<b>Nominal diameter:</b>	DN 2600
<b>Special features:</b>	7 inflows





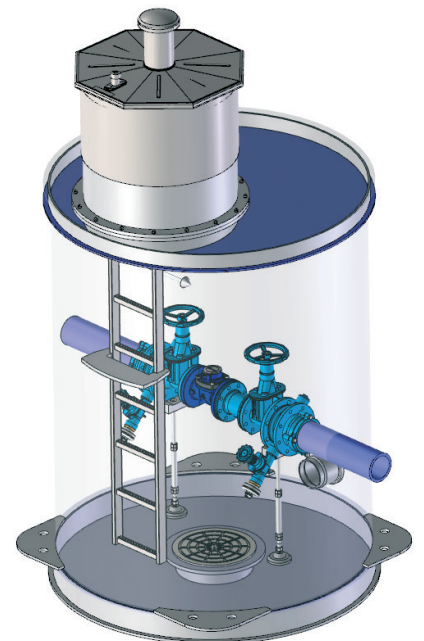
# Potable water valve chamber

Vertical transition chute



## Project details:

<b>Construction:</b>	Transition chute
<b>Weight:</b>	1.600 kg
<b>Nominal diameter:</b>	DN 1500
<b>Special features:</b>	Buoyancy control, mobile-bypass-function





# Potable water valve chamber

Water supply association „Weddel-Lehre“ applies PE-chamber





# Potable water valve chamber

Pressure reducing shaft to improve perfusion in case of feed-in



## Project details:

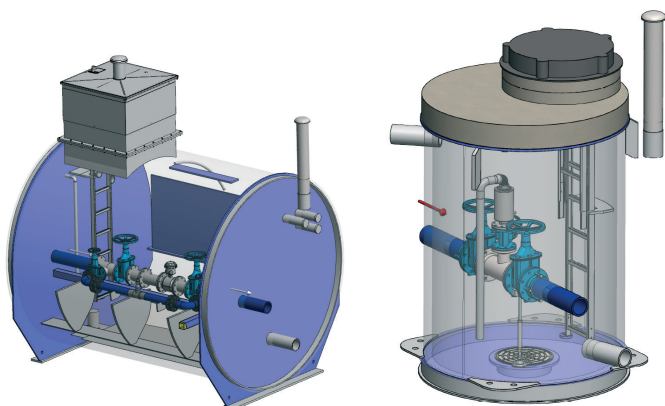
<b>Construction:</b>	Pressure reducing shaft
<b>Length:</b>	4,5 m
<b>Weight:</b>	3.500 kg (inkl. valves)
<b>Nominal diameter:</b>	DN 2500
<b>Special features:</b>	Pressure reducing valve DN 200





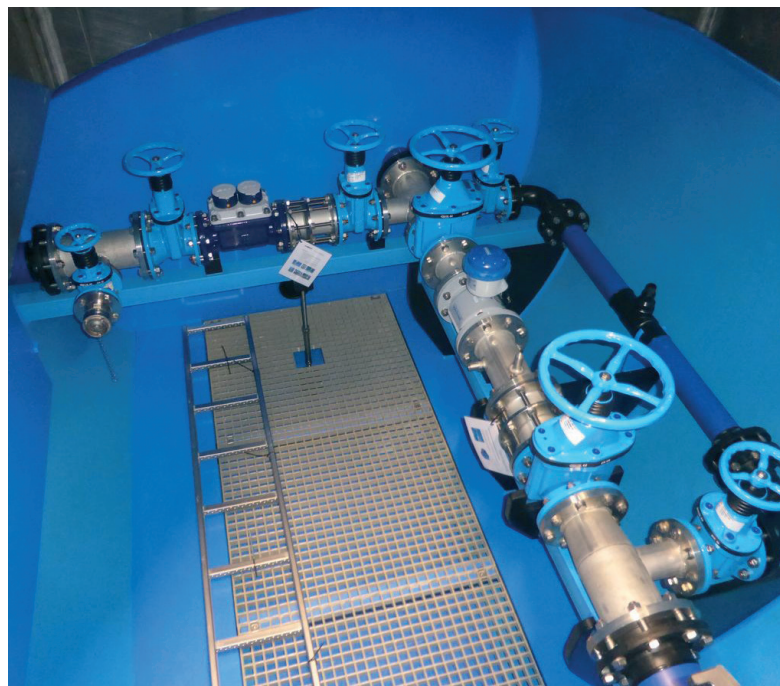
# Potable water valve chamber

Horizontal transition chute and air valve chamber



## Project details:

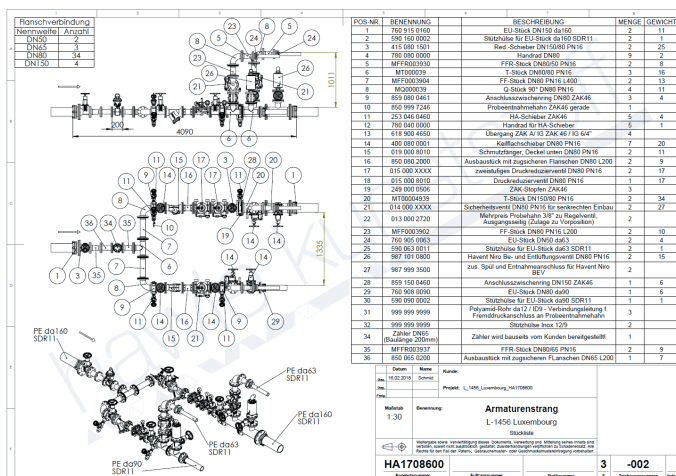
<b>Construction:</b>	Water meter / air valve shaft
<b>Length:</b>	4 m
<b>Weight:</b>	2.704 kg / 1.300 kg
<b>Nominal diameter:</b>	DN 2500 / DN 1500
<b>Special features:</b>	HaVent air valve DN 80 buoyancy control with geo textile





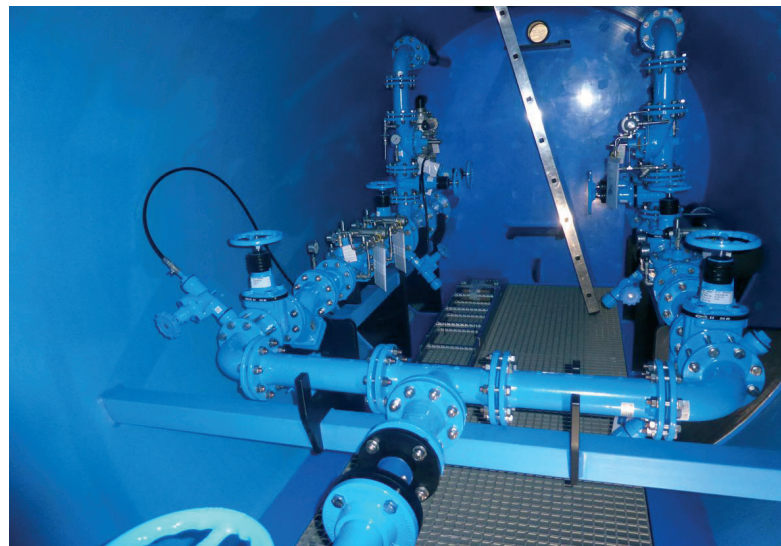
# Potable water valve chamber

Trafficable valve chamber with 5 control valves in total



## Project details:

Construction:	Valve chamber
Length:	5 m
Weight:	3.360 kg
Nominal diameter:	DN 2500
Special features:	Gate valves DN 80 - 150, HaVent air valve DN 80, 5 control valves DN 80, pressure reducing valve, safety valve





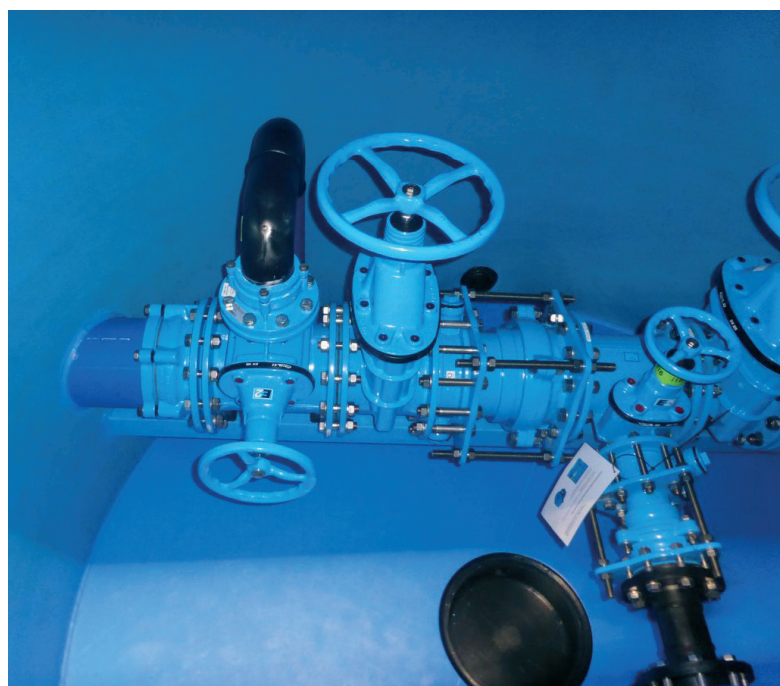
# Potable water valve chamber

Before and after comparison



## Project details:

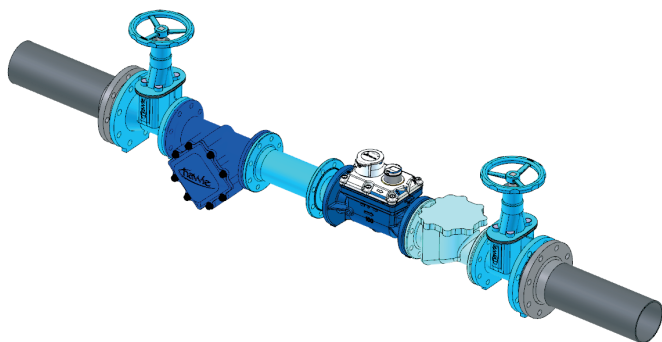
<b>Construction:</b>	Valve chamber
<b>Weight:</b>	3.300 kg
<b>Nominal diameter:</b>	DN 2500
<b>Special features:</b>	Check valve DN 80, buoyancy controlled, trafficable





# Potable water valve chamber

Water meter shaft for a shopping center



## Project details:

<b>Construction:</b>	Water meter shaft
<b>Nominal diameter:</b>	DN 2300
<b>Special features:</b>	Reducing gate DN 150, strainer DN 100, check valve DN 100, buoyancy control





# Potable water valve chamber

Shaft for protection in case of leakages or pipe breakage



## Project details:

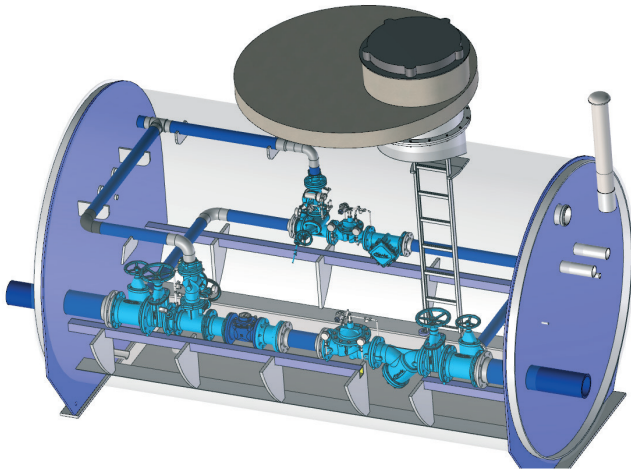
<b>Construction:</b>	Valve chamber
<b>Length:</b>	5,2 m
<b>Weight:</b>	4.200 kg
<b>Nominal diameter:</b>	DN 2500
<b>Special features:</b>	2 butterfly valves DN 400, AUMA-drive unit, flow monitor





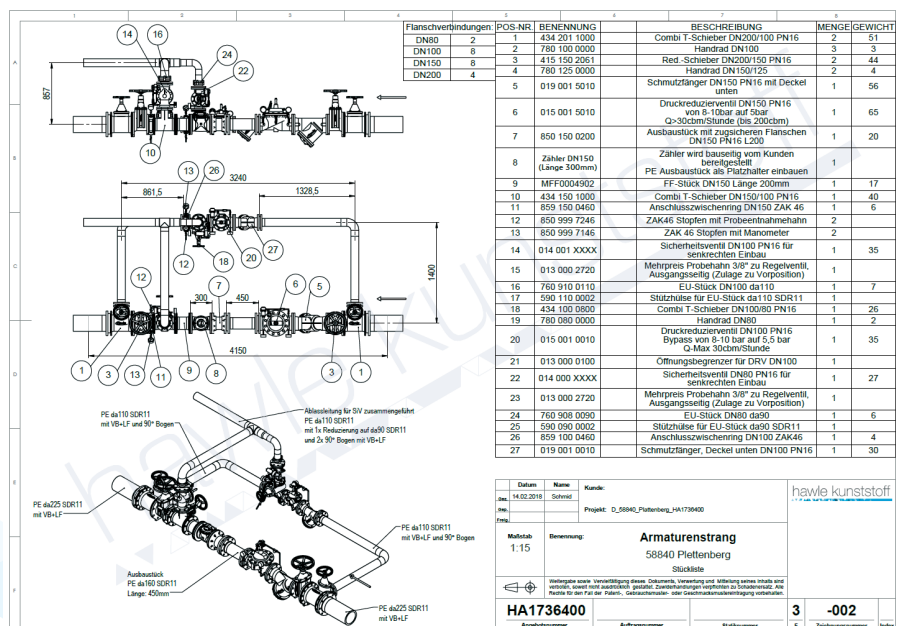
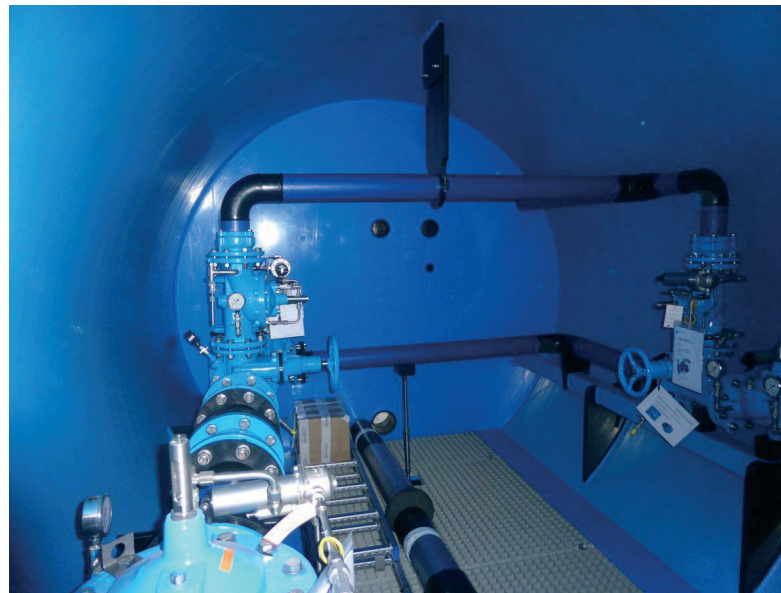
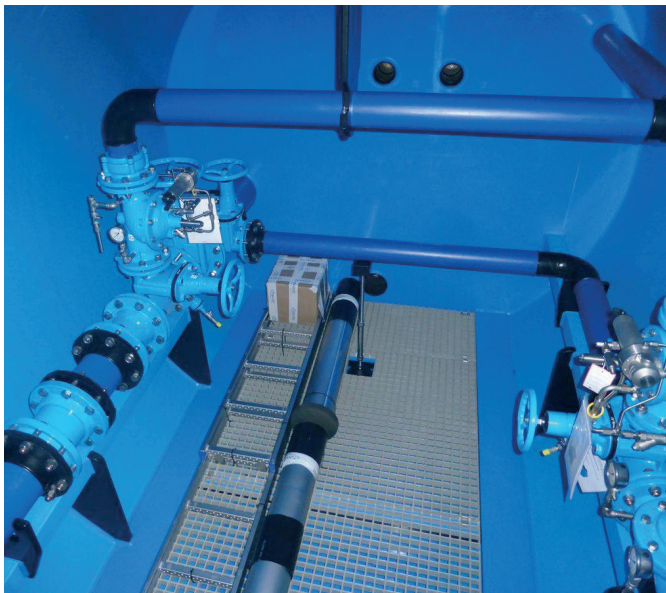
# Potable water valve chamber

## Trafficable valve chamber with 4 control valves



## Project details:

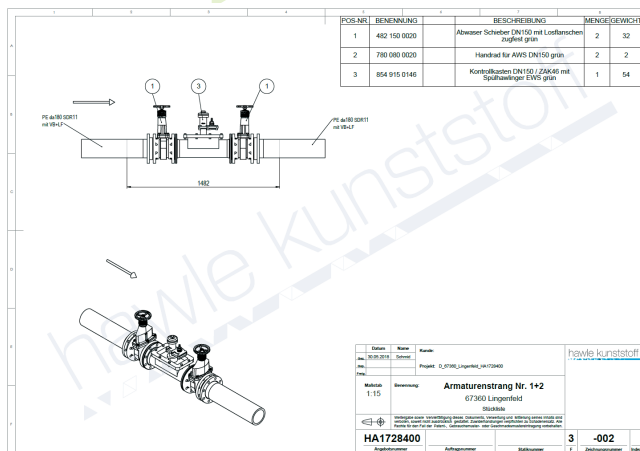
<b>Construction:</b>	Valve chamber
<b>Length:</b>	4,5 m
<b>Weight:</b>	3.350 kg
<b>Nominal diameter:</b>	DN 2500
<b>Special features:</b>	Gate valves DN 80 - DN 200, 2 pressure reducing valves, 2 safety valves





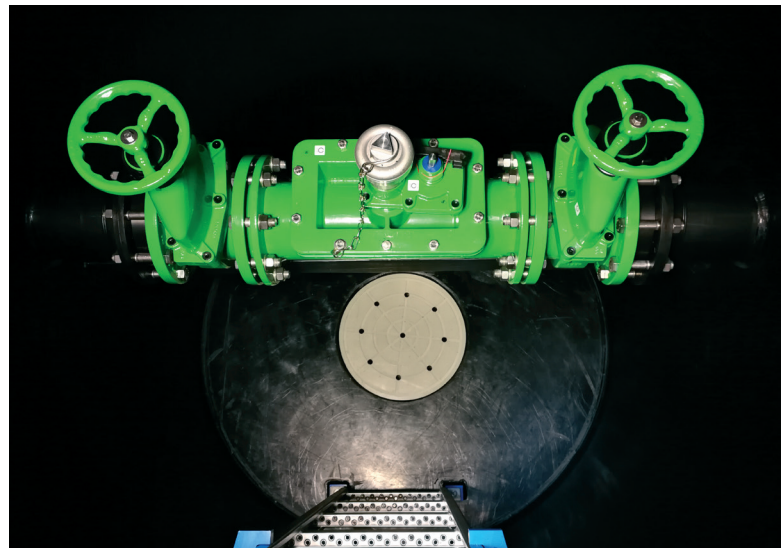
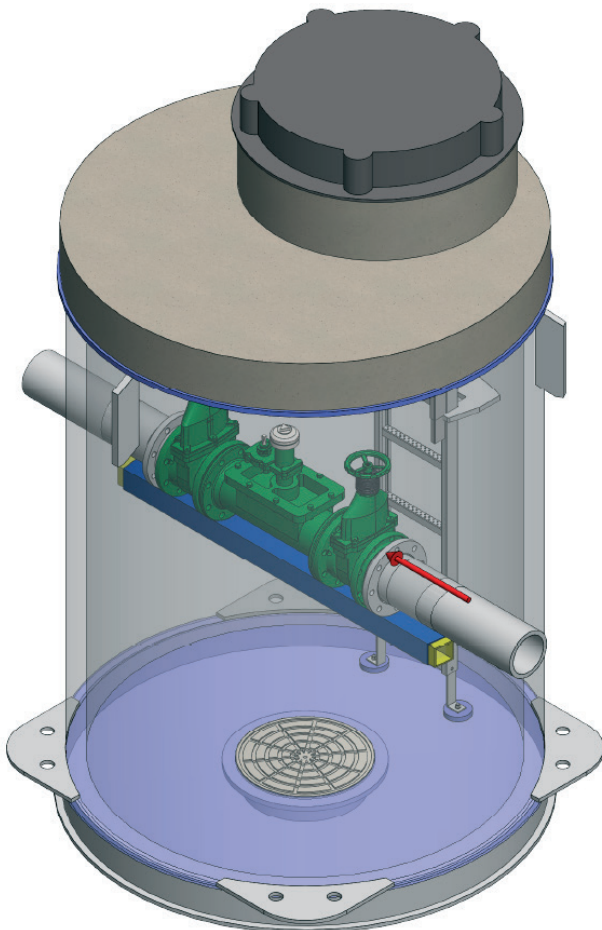
# Sewage water valve chamber

Three valve chambers buoyancy controlled and trafficable



## Project details:

<b>Construction:</b>	Valve chamber
<b>Weight:</b>	1.200 kg
<b>Nominal diameter:</b>	DN 1500
<b>Special features:</b>	Sewage pressure pipe, 2 sewage water gate val- ves DN 150, hatchbox with ZAK-outlet, trafficable, with buoyancy control





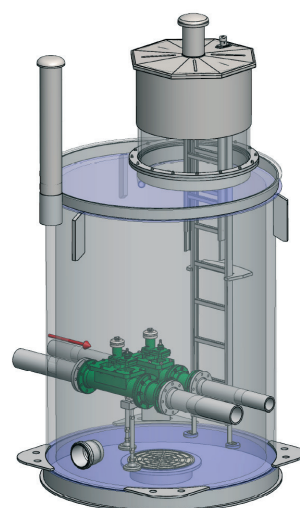
# Sewage water valve chamber

Sewage water inspection shaft with buoyancy control



## Project details:

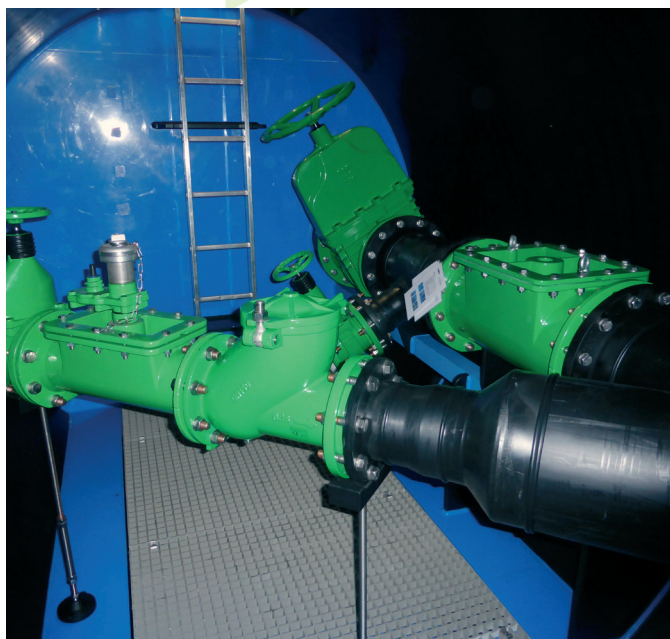
<b>Construction:</b>	Inspection shaft
<b>Weight:</b>	1.350 kg
<b>Nominal diameter:</b>	DN 1500
<b>Special features:</b>	Cleaning and controlling box DN 125, with buoyancy control





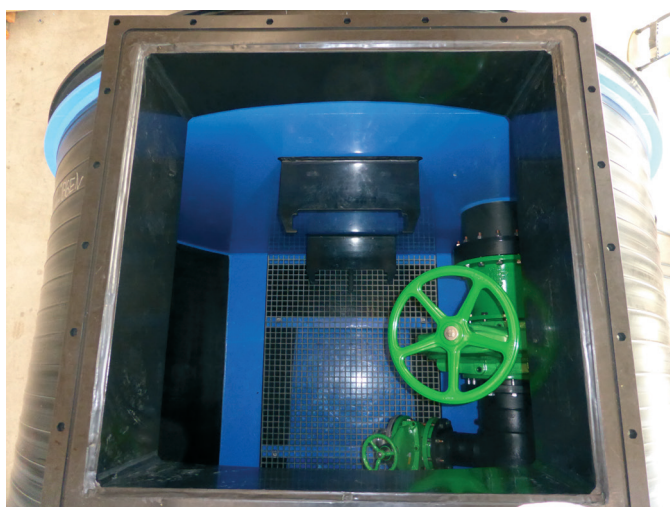
# Sewage water valve chamber

Coupling shaft for two sewage pressure pipes and shaft as measuring point



## Project details:

<b>Construction:</b>	Sewage water valve chamber Water meter shaft (vertical)
<b>Length / Nominal diameter:</b>	Shaft horizontal: 4 m / DN 2600 Shaft vertical: DN 2300
<b>Weight:</b>	Shaft horizontal: 3.400 kg (incl. installation) Shaft vertical: 3.300 kg
<b>Special features:</b>	Pipe dimension DA 400, gate valve DN 300, with pos- sibility for rinsing, ball check valve, Cleaning box with B-coupling





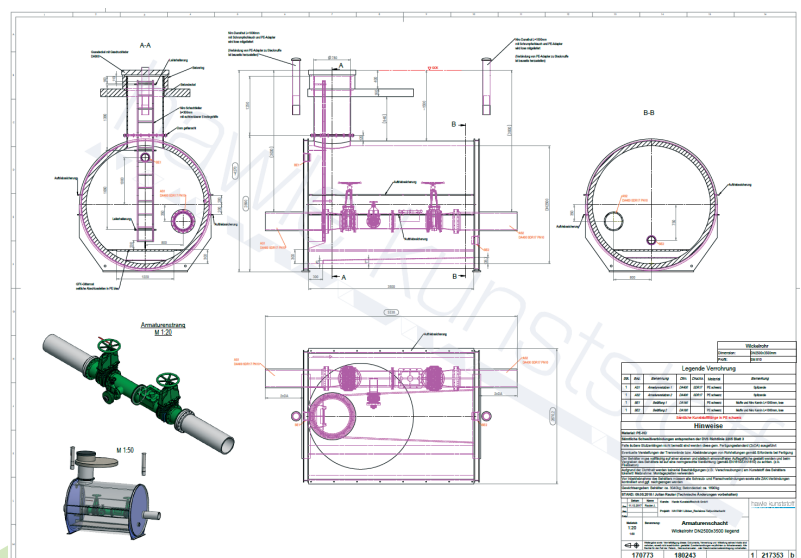
# Sewage water valve chamber

Follow-up project for the Stadtentwässerung Lübben



## Project details:

<b>Construction:</b>	Inspection shaft
<b>Length:</b>	5 m
<b>Weight:</b>	3.040 kg
<b>Nominal diameter:</b>	DN 2500
<b>Special features:</b>	Sewage water gate valve DN 150 und DN 300, hatchbox DN 300, stainless steel-B-coupling for rinsing





# Drainpiping - Remediation

53 manholes und 2000 m piping laid in Bonn-Beuel



## Project details:

### Double wall pipes „SAFE“

DN 1200 » 850 m  
DN 1000 » 150 m  
DN 800 » 900 m  
DN 300 » 30 m

### Double wall tangential manholes, verifiable 43 manholes

DN 1000/800 22 pieces  
DN 1200/800 1 pieces  
DN 1000/1000 3 pieces  
DN 1200/1200 9 pieces  
DN 1000/1200 8 pieces

### Double wall manholes DN 1000, verifiable 10 manholes





# Sewage water pipe with E-socket

Connection of the pipes with innovative electro fusion welding



## Project details:

<b>Construction:</b>	Doppelstrang DN 1100 mit je 2 tangential manholes
<b>Length per strand:</b>	237 m
<b>Material:</b>	PE 100, royal blue
<b>Special features:</b>	Electro fusion connection with E-socket Slight gradient with only 1,7 per mil





# Sewage water valve chamber

Restructuring of 5 sewage water pump stations for the WWAZ



## Project details:

<b>Construction:</b>	5 sewage water pump stations
<b>Installation depth:</b>	up to 5,95 m
<b>Nominal diameter:</b>	DN 1000 - 1500
<b>Special features:</b>	2 pump stations trafficable prefabricated at the plant incl. sockets, pressure piping, Y-section, possibility for rinsing, ball check valve, gate valves and sliding tubes





# Sewage water valve chamber

Air valve chamber made of plastic replaces old concrete shaft



## Project details:

<b>Construction:</b>	Air valve chamber
<b>Length:</b>	Sewage water pressure pipe with 4,3 km length, DN 300, built 1996
<b>Nominal diameter:</b>	DN 1800
<b>Weight:</b>	1.900 kg
<b>Special features:</b>	pipes DA 315, Air valve 986, cleaning and controlling box DN 300





# Storm water tank

Storm water tank with built-in dry weather gutter



## Project details:

<b>Construction:</b>	Storm water tank with built-in dry weather gutter
<b>Length:</b>	approx. 75 m
<b>Nominal diameter:</b>	DN 1800
<b>Connection:</b>	Socket joint with rubber seal





# Storm water relief

Storm water relief made of acid-resistant plastic against corrosive sewage water



## Project details:

<b>Construction:</b>	Storm water relief with storm water tank and tangential manholes
<b>Length:</b>	9 m
<b>Nominal diameter:</b>	DN 1000 / DN 1200
<b>Special features:</b>	Socket joint with rubber seal





# Storm water tank

Plastic convinces with flexibility for the construction of a storm water tank



## Project details:

<b>Construction:</b>	Storm water tank 3 parts
<b>Length:</b>	9 m
<b>Nominal diameter:</b>	DN 1000
<b>Connection:</b>	Socket joint with rubber seal
<b>Special features:</b>	Support on site from Hawle Kunststoff





# Ventilation duct

Challenging restructuring of a ventilation duct for a leading German meat marketer



## Project details:

<b>Construction:</b>	Ventilation duct
<b>Length:</b>	approx. 184 m
<b>Nominal diameter:</b>	PE sewage pipes DN 1800, DN 1200 T-transition pipe from DN 1800 to DN 1200 Ed fitting piece incl. manhole
<b>Connection:</b>	Extrusion welding





# Apparatus and tank building

Expansion tank, storage tank, silo, circular and rectangle container



Expansion tank for a pool



Pool



Expansion tank for a pool



PE-Expansion tank for a pool



Pool installed



# Apparatus and tank building

Expansion tank, storage tank, silo, circular and rectangle container



Glue tank



PE circular tank with collection tray  
to store 40% urea



PE-HD storage tank



Ammoniac / caustic soda storage tanks 40 m<sup>3</sup>



Storage tank with collection tray  
for precipitants and caustic soda



# Apparatus and tank building

Expansion tank, storage tank, silo, circular and rectangle container



PE-container as mobile watering system



Water container incl. toolbox for mounting on a truck



PE-container as mobile watering system



Desludging tank



PE coolant reservoir



PP-H washing container

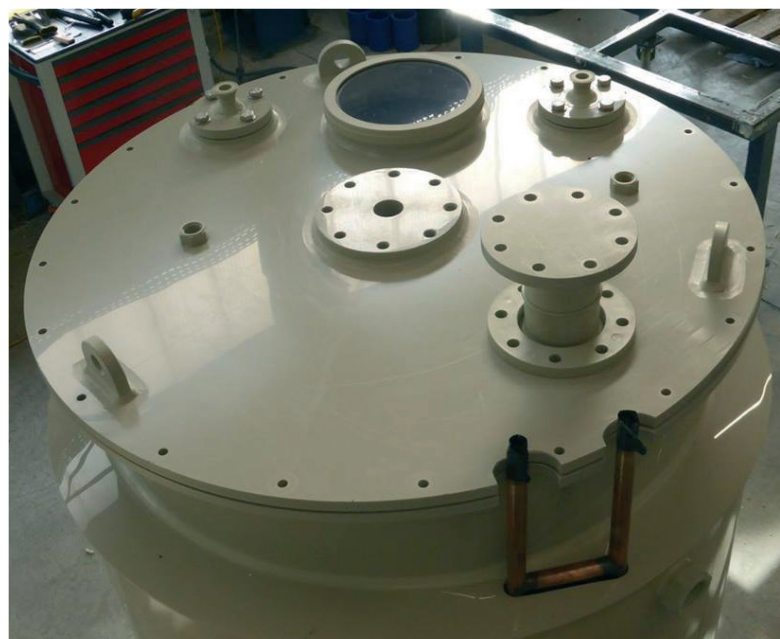


# Apparatus and tank building

Expansion tank, storage tank, silo, circular and rectangle container



PP circular tank



Tank for homogenisation with cooling loop



PE sedimentation tank



PP container for process water



Tank for homogenisation with cooling loop



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