

Dipping bottles



Dipping containers are used in various areas to collect liquids for sampling. Bürkle produces the most comprehensive collection of dipping containers by a long way, the right product for every use as it were. Bürkle offers dipping bottles and immersion cylinders for sediments, for the area of environmental issues, for chemically aggressive products, for petrochemistry, for the ex protection area etc. The dipping bottles for the Ex protection area are made of nickel-plated brass, therefore they do not oxidise.

Dipping vessels can be used for point sampling, all-layer samples and bottom sampling.

Dipping vessels are heavy. Lowering requires the use of special manually-operated drum reels with a large winding diameter. Other manually-operated drum reels place too much strain on the user's wrist and could represent a health hazard. Lowering cables and chains made from different materials, as well as manually-operated drum reels, also for Ex-proof applications, available as accessories.

! Observe Ex-proof guidelines when sampling flammable liquids. Only use conductive lowering cables made of nonspark-producing material and conductive hand reels with grounding connection.

Dipping bottle

Dipping bottle with glass container for sampling in sewage plants, for mud and water samples. For testing crude oil, liquid mineral oil products, fuels, special and test fuels, fuel oils, petroleum and liquid lubricants of Hazard Categories IIA and IIB. Completely made from non-spark producing materials. Dipping frame made of nickel-plated brass, easy-click closure made of electrically conductive polyamide.

- ▶ With Easy-Click, safe and practical closure for a rapid bottle exchange
- ▶ High weight (3.2 kg) for fast lowering
- ▶ Bottle made of transparent glass 1000 ml contents
- ▶ Height with handles 330 mm
- ▶ Tested for use in the Ex protection zone 0

! Please order the required lowering cable separately (page 110)

Use

1. Lower the dipping bottle to the required depth.
2. Pull chain/cable with a short, powerful jerk, the stopper opens.
3. The sample flows into the bottle.
4. Raise the bottle with the chain/ cable.
5. Open the Easy-Click closure, remove the bottle.



Dipping bottle			
Capacity ml	Dia. mm	Price €	Item no.
1000	148		5365-4000 N4

Dipping bottle Ex

Dipping bottle for testing mineral oil products Category A, Explosion Categories IIA, IIB and IIC, crude oil, liquid mineral oil products, fuels, special and test fuels, fuel oils, petroleum and liquid lubricants. Completely made from non-spark producing materials, nickel-plated

- Screw-off bottle head - easy cleaning
- Robust handle
- High weight (3.3 kg) for fast lowering
- Height with handles 443 mm
- Tested for use in the Ex protection zone 0

⚠ Please order the required lowering cable separately (page 110).



Use

1. Lower the dipping bottle to the required depth.
2. Pull chain/cable with a short, powerful jerk, the stopper opens.
3. The sample flows into the bottle.
4. Raise the bottle with the chain/cable.
5. Empty the bottle.



Dipping bottle Ex			
Capacity ml	Dia. mm	Price €	Item no.
1000	89		5365-3000 N4

Immersion cylinder

Immersion cylinder for sampling crude oil, liquid mineral oil products, fuels, special and test fuels, fuel oils, petroleum and liquid lubricants in Explosion Categories IIA, IIB and IIC. Completely made from non-spark producing materials, nickel-plated.

- Screw-off top enables easy cleaning
- High weight for fast lowering
- Robust handle
- Tested for use in the Ex protection zone 0

⚠ Please order the required lowering cable separately (page 110).

Use

Point sampling

1. Two lowering cables are required for this (bearer cable and hauling cable).
2. Lower the immersion cylinder to the required depth.
3. When the target has been reached, pull on the hauling cable, the valve opens.
4. The sample flows into the bottle.
5. Release the hauling cable. The valve closes. Pull the cylinder back on the bearer cable.
6. Empty the cylinder via the valve at the bottom.

Bottom sampling

1. Lower the immersion cylinder on the cable to the ground.
2. The valve opens automatically because of the immersion cylinder's own weight.
3. The sample flows into the cylinder.
4. Pull the cylinder back on the cable, the valve closes independently.
5. Empty the cylinder via the valve at the bottom.



Immersion cylinder					
Capacity ml	Dia. mm	Height mm	Weight g	Price €	Item no.
500	75	300	3000		5365-7500 N4
1000	75	450	4300		5365-7000 N4

Dipping vessel

Dipping vessel for taking all-layer samples from tanks, tank wagons, water courses, water purification plants.

- ▶ With Easy-Flow, the flow optimised flow valve
- ▶ High weight for faster lowering
- ▶ Contents 1000 ml
- ▶ Height with handles 427 mm
- ▶ Made of non-spark producing brass or stainless steel AISI 304 (1.4301) for Ex area
- ▶ Tested for use in the Ex protection zone 0, Explosion Categories IIA, IIB and IIC

⚠ Please order the required lowering cable separately (page 110).



Use

1. When the dipping vessel is lowered, the liquid constantly runs through it.
2. When it is pulled back, both valves close automatically.
3. Emptying at the top via the open flaps.

Dipping vessel					
Material	Dia. mm	Weight g	Price €	Item no.	
brass	82	2300		5365-1000	N4
stainless steel AISI 304	82	2000		5365-2000	N4

Mini immersion cylinder

For sampling liquids in narrow places where access is difficult. Can also be used in curved dipping tubes and barrels with narrow openings.

- ▶ Diameter only 32 mm
- ▶ Weight 330 g
- ▶ Stainless steel AISI 304 (1.4301)
- ▶ Screw-off top enables easy cleaning
- ▶ Tested for use in the Ex protection zone 0, Explosion Categories IIA and IIB

⚠ Please order the required lowering cable separately (page 110).



Use

1. When the dipping vessel is lowered, the liquid constantly runs through it.
2. When it is pulled back, both valves close automatically.
3. It can be emptied via the base valve or the upper screw-off cap.

Mini immersion cylinder					
Capacity ml	Dia. mm	Height mm	Price €	Item no.	
50	32	180		5365-5000	N4

Target immersion cylinder



Precise liquid samples can be taken with the Target immersion cylinder.

- Weight 2.6 kg
- Incl. venting lowering cable (5 m), valve and cable reel
- Screw-off top enables easy cleaning

Use

1. Lower the immersion cylinder to the required depth on the high-tensile, closed hose.
2. When the target has been reached, open the air valve at the tube end.
3. This vents the immersion cylinder and fills it.
4. Retrieve the immersion cylinder.
5. Open the cover and pour out the sample.

Target immersion cylinder

Capacity ml	Dia. mm	Height mm	Price €	Item no.
500	75	210		5365-6000 N4

AquaSampler



Sampler for ground water samples from wells, pits and other sources. Fits all normal well shafts with control openings to Ø 2", without tilting or getting stuck. Ultra pure materials guarantee the highest degree of sample purity. Easy to clean thanks to rounded edges and threads.

- FEP/PTFE ultra pure, anti adhesive surface

⚠ Please order the required lowering cable separately (page 110).

AquaSampler

Capacity ml	Total length cm	Outer dia. mm	Price €	Quantity scale from	Scale price €	Item no.
350	40	46		5		5308-0350 N4
700	76	46		5		5308-0700 N4
1050	107	46		5		5308-1050 N4

Manually-operated reels



Manually-operated drum reel PP



Manually-operated drum reel PA electrically-conductive



Manually-operated reel Ex with grounding cable

The manually-operated drum reels are used to lower dipping bottles and immersion cylinders safely to the required depth in shafts, wells and tanks and then to pull them up again. The manually-operated drum reels can be equipped with various cables or chains.

If flammable or highly flammable liquids are to be collected, then electrically conductive manually-operated drum reels must be used together with an earthing cable. The dipping bottles must be made of non-sparking metal.



- High winding capacity of up to 150 m for cable 2 mm dia.
- Reel width: inner 44 mm, outer 55 mm, reel diameter: inner 100 mm, outer 180 mm

! Please order the required lowering cable separately.

Manually-operated reel

Model	Price €	Item no.
① Manually-operated reel PP		5309-0010 N4
② Manually-operated reel PA		5309-0020 N4
③ Manually-operated reel Ex with grounding cable		5309-0030 N4

Lowering cables



Stainless steel lowering cable, PTFE-coated



Lowering cable AISI 316L



Lowering cable plastic



Copper lowering cable EX with loops

Lowering cables

For dipping bottles and immersion cylinders, matching manually-operated drum reels made of various materials. Tensile load max. up to 10 kg.



Lowering/hoisting chain stainless steel



Snap-hook AISI 316L



Brass shackle

Lowering cables

Model	Length m	Dia. mm	Price €	Item no.
④ Stainless steel lowering cable, PTFE-coated	10	2		5309-0110 N4
④ Stainless steel lowering cable, PTFE-coated	25	2		5309-0125 N4
④ Stainless steel lowering cable, PTFE-coated	50	2		5309-0150 N4
⑤ Stainless steel lowering cable	10	1.25		5309-0301 N4
⑤ Stainless steel lowering cable	25	1.25		5309-0302 N4
⑤ Stainless steel lowering cable	50	1.25		5309-0305 N4
⑥ Lowering cable made of PP cord	10	2		5309-0201 N4
⑥ Lowering cable made of PP cord	25	2		5309-0202 N4
⑥ Lowering cable made of PP cord	50	2		5309-0205 N4
⑦ Copper lowering cable EX with loops	10	4.5		5309-0410 N4
⑦ Copper lowering cable EX with loops	25	4.5		5309-0425 N4
⑦ Copper lowering cable EX with loops	50	4.5		5309-0450 N4
⑧ Stainless steel chains	10	2.3		5309-0510 N4
⑧ Stainless steel chains	25	2.3		5309-0525 N4
⑧ Stainless steel chains	100	2.3		5309-0550 N4
⑨ Snap hooks AISI 316L		5		0006-5300 N4
⑩ Brass shackle		4.5		0006-5301 N4