

TOPSELLERS

EX PROTECTION PRODUCTS

Safety during filling and sampling processes – EX protection products from Bürkle

Invisible dangers are lurking during filling and sampling processes: electrostatic charge, which can trigger a fire or explosion with a spark. The greatest risk comes from unsuitable filling devices and sample taking equipment. Safe devices must be electrically conductive. The percentage of non-conductive parts is limited by legal restrictions.

EX-protected pumps and samplers from Bürkle have been thoroughly tested by an independent organisation, as verified by a testing seal. In combination with the antistatic set which ensures reliable earthing, and taking into consideration applicable requirements regarding hazardous materials, you can work safely and with no danger with our instruments presented here.



Stainless Steel Barrel Pump | for flammable liquids



! Not suitable for acetone!
When withdrawing flammable liquids, the barrel and pump has to be grounded!
Use Anti-static set!

Barrel pump made of stainless steel with discharge tube

- ▶ Removable discharge tube
- ▶ Immersion tube Ø 32 mm

Barrel pump stainless steel with discharge hose and stopcock

- made of stainless steel and PTFE, can conduct electricity.
- ▶ Immersion tube Ø 32 mm
- ▶ Removable hose, 1.2 m in length
- ▶ Ball valve made of stainless steel NW 8 mm
- ▶ Discharge nozzle Ø 12.8 mm



Anti-static set



When decanting flammable liquids without the machines and containers involved in the process being sufficiently earthed, electrostatic build-up can occur, which for many substances

can result in fire or an explosion.

Bürkle's anti-static set ensures easy and reliable earthing.

The anti-static set consists of three colour-coded connecting copper cables with clamps in a handy plastic case.

① with discharge tube

| Immer- sion depth cm | Total length cm | Pump capacity ml per stroke | Price € | Quan- tity scale from | Scale price € | Item no. |
|-------------------------------|-----------------------|--------------------------------------|---------|--------------------------------|------------------|--------------|
| 36 | 48 | 220 | | | | 5601-0400 N4 |
| 57 | 69 | 350 | | | | 5601-0500 N4 |
| 91 | 103 | 560 | | | | 5601-0800 N4 |

② with discharge hose/stopcock

| Immer- sion depth cm | Total length cm | Pump capacity ml per stroke | Price € | Quan- tity scale from | Scale price € | Item no. |
|-------------------------------|-----------------------|--------------------------------------|---------|--------------------------------|------------------|--------------|
| 36 | 48 | 220 | | | | 5601-0401 N4 |
| 57 | 69 | 350 | | | | 5601-0501 N4 |
| 91 | 103 | 560 | | | | 5601-0801 N4 |

Anti-static set

| Price € | Quantity scale from | Scale price € | Item no. |
|---------|------------------------|---------------|--------------|
| | | | 5602-1000 N4 |

Mini solvent pump



The Mini solvent pump is a high-quality hand pump for small containers such as bottles, canisters and tanks up to about 5 litres. For reliable filling and dosing of solvents and readily flammable liquids. All parts of this hand pump in contact with medium are manufactured from high-quality and inert materials PTFE and stainless steel (1.4301, 1.4404), which feature excellent chemical resistance. The Mini solvent pump is therefore especially well suited for use with high-purity liquids and readily

flammable media such as acetone, isopropanol, ethanol and methanol, etc.

- ▶ Ideal for 1-5 l containers
- ▶ Connecting thread GL 45
- ▶ Adapter available as accessory for S 40, GL 38 and GL 32
- ▶ Parts in contact with medium made of PTFE and stainless steel (1.4301, 1.4404)
- ▶ PTFE hose (6x8 mm) 0.4 m
- ▶ Including grounding cable 2 m

| Material | Connector thread | Price € | Item no. |
|----------------------|------------------|---------|--------------|
| Stainless steel/PTFE | GL 45 | | 5603-4000 N4 |

Solvent pump hand operated

Hand-operated solvent pump for contamination-free removal of organic solvents and flavouring agents. For containers up to 60 l. The pump is gas-tight and completely sealable with two ball valves.

- ▶ Medium-contacting parts: stainless steel (1.4301)/PTFE
- ▶ When withdrawing flammable liquids, the barrel and pump has to be grounded! Use Anti-static set!



Solvent pump for tin-foil canisters fits on pull-out spouts



| Version | Pump capacity approx. l/min | Connector thread | Immersion depth cm | Price € | Item no. |
|----------------------------|-----------------------------|---------------------|--------------------|---------|--------------|
| Hand-operated solvent pump | 10 | 2" fine | max. 60 | | 5603-1000 N4 |
| for tin-foil canisters | 10 | for pull-out spouts | max. 60 | | 5603-2000 N4 |

Solvent pump foot operated

For filling off high-purity liquids. All parts coming into contact with the media are made of stainless steel and FPM. The barrel screw joint and stopcock provide a hermetic seal between the container and the pump.

- ▶ Rigid discharge tube with stainless steel/PTFE stopcock

- ▶ Stepless adjustment of immersion tube length
- ▶ For barrels up to 220 liters
- ▶ Barrel screw joints for commercially available barrels as accessories
- ▶ Clip connection for fast plugging and unplugging of the air hose

| Version | Pump capacity approx. l/min | Connector thread | Immersion depth cm | Price € | Item no. |
|------------------------------|-----------------------------|------------------|--------------------|---------|--------------|
| with discharge tube | 30 | 2" fine | max. 95 | | 5603-1100 N4 |
| with discharge hose/stopcock | 30 | 2" fine | max. 95 | | 5603-3000 N4 |



StopCock PA, electroconductive



Commercially available spigots made of the materials polyethylene or polypropylene cannot be used for solvents.

The spigot StopCock PA is made of electrically conductive polyamide and therefore perfectly suitable for solvents.

StopCock PA fits onto 3/4" outer threads and with the supplied adapter onto 3/4" inner threads and therefore onto nearly all commercially available canisters and barrels where the discharge thread is at the bottom.

- ▶ With discharge angle and rotatable spout preventing drips
- ▶ With tapered spout for bottles with narrow openings with a diameter from 6 to 8 mm.
- ▶ Media-contacting parts PA conductive to electricity and PTFE
- ▶ Supplied with PA adapter conductive to electricity for 3/4" inner thread

| Thread, inflowing side | Thread, outflowing side | Price € | Quantity scale from | Scale price € | Item no. |
|---------------------------|-------------------------|---------|---------------------|---------------|--------------|
| 3/4" inner thread cap nut | spout/nozzle | | | | 0525-1100 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 (1.9 or 2.1 kg) for faster lowering
- ▶ Contents 1000 ml
- ▶ Height with handles 400 mm
- ▶ Made of non-spark producing brass or stainless steel V2A (1.4301) for Ex area
- ▶ Explosion Categories IIA and IIB
- ▶ Tested for use in the Ex protection zone 0



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.

| Material | Weight g | Dia. mm | Price € | Item no. |
|----------|----------|---------|---------|--------------|
| brass | 2100 | 82 | | 5365-1000 N4 |
| AISI 304 | 1900 | 82 | | 5365-2000 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 (3.2 kg) for fast lowering
- ▶ 1000 ml contents
- ▶ Height with handles 443 mm
- ▶ Tested for use in the Ex protection zone 0



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 closure, empty the bottle

| Capacity ml | Dia. mm | Price € | Item no. |
|-------------|---------|---------|--------------|
| 1000 | 89 | | 5365-3000 N4 |

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 (3.3 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



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

| Capacity ml | Dia. mm | Price € | Item no. |
|-------------|---------|---------|--------------|
| 1000 | 148 | | 5365-4000 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 (4.1 kg) for fast lowering
- ▶ Robust handle
- ▶ 1000 ml contents
- ▶ Height with handles 438 mm
- ▶ Tested for use in the Ex protection zone 0



Point sampling

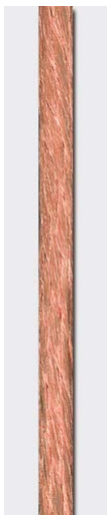
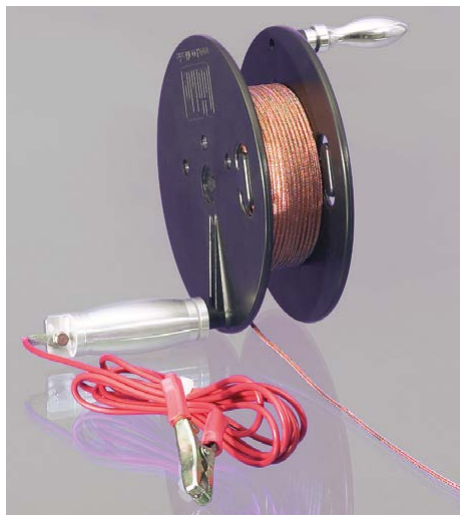
1. Two lowering cables required: (bearer cable and hauling cable)
2. Lower the immersion cylinder to the required depth
3. When the target has been reached, pull on the hauling cable, the valve opens.
4. The sample flows into the bottle
5. Release the hauling cable. The valve closes. Pull the cylinder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

Soil sample

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, valve closes independently

| Capacity ml | Dia. mm | Length mm | Price € | Item no. |
|-------------|---------|-----------|---------|--------------|
| 1000 | 75 | 438 | | 5365-7000 N4 |

Manually-operated reels, lowering cables



Manually-operated reel Ex with grounding cable

- ▶ 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.

Lowering cables

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



Manually-operated reel

| Model | Price € | Item no. |
|----------------------|---------|--------------|
| with grounding cable | | 5309-0030 N4 |

Lowering cable

| Model | Length m | Dia. mm | Price € | Item no. |
|-----------------------|----------|---------|---------|--------------|
| Copper lowering cable | 10 | 4,5 | | 5309-0410 N4 |
| Copper lowering cable | 25 | 4,5 | | 5309-0425 N4 |
| Copper lowering cable | 50 | 4,5 | | 5309-0450 N4 |

ProfiSampler aluminium | vacuum-operated sample collector for robust industrial use



ProfiSampler aluminium for solvents and flammable liquids in Explosion Categories IIA and IIB. With bottle thread GL 45 (suitable for Schott glass bottles 100 ml to 1000 ml).

When taking samples of flammable liquids, the device must be earthed. For this, earthing cable and, possibly in addition, anti-static set should be used, see accessories.

ProfiSampler aluminium, consisting of: Vacuum pump made of aluminium, with feet, venting valve and bottle thread GL 45 with glass bottle 500 ml, 5 suction tubes PA black, 220 cm long, electrically conductive, hose cutter, brass hose weight, 24 seal-it bottle seals, Earthing cable.



| Price € | Quantity scale from | Scale price € | Item no. |
|---------|---------------------|---------------|--------------|
| | | | 5305-1100 N4 |

Accessories

| Description | Price € | Item no. |
|--|---------|--------------|
| Straight suction tube for ProfiSampler, PA black, el. cond. (10 pcs./220 cm) | | 5305-1024 N4 |

Electrically conductive canister with UN approval



Canister made of electrically conductive HDPE for preventing ignition sources. The canisters are capable of diverting a charge (surface resistance <math><10^9</math> ohms) and can be earthed, which makes them suitable for use with flammable liquids.

- ▶ HDPE, capable of diverting a charge
- ▶ With carrying handle and screw cap
- ▶ With UN approval for transport
- ▶ Stackable

| Capacity l | L x W x H mm | UN approval | Thread | Weight g | Price € | Quantity scale from | Scale price € | Item no. |
|------------|-----------------|--------------|--------|----------|---------|---------------------|---------------|--------------|
| 10 | 300 x 200 x 258 | 3H1/Y1.5/200 | DIN 61 | 770 | | | | 1428-0010 N4 |
| 20 | 300 x 200 x 495 | 3H1/Y1.5/150 | DIN 61 | 1320 | | | | 1428-0020 N4 |
| 30 | 364 x 240 x 455 | 3H1/Y1.5/150 | DIN 61 | 1350 | | | | 1428-0030 N4 |