

TOPSELLERS

EX PROTECTION PRODUCTS



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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
57	69	350				5601-0500
91	103	560				5601-0800

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
57	69	350				5601-0501
91	103	560				5601-0801

Anti-static set			
Price €	Quantity scale from	Scale price €	Item no.
			5602-1000

Gas-tight stainless steel pump



Gas-tight barrel pump with flexible discharge hose for filling off into large canisters and containers. Convenient transfer because the canister can stay on the floor. The connection cone is held onto the container.

Pump has been developed in cooperation with Ludwig-Maximilians University, Munich.

- ▶ Gas-displacement device for odor-free transfer
- ▶ Parts in contact with media: Stainless steel (1.4301), PTFE, nickel-plated brass, PA that can conduct electricity
- ▶ Incl. gas-tight barrel screw joints (2" fine thread)
- ▶ For bottle openings from 16 – 49 mm
- ▶ Immersion tube Ø 32 mm
- ▶ The pump can be hermetically sealed with two ball valves

Immersion depth cm	Total length cm	Pump capacity ml per stroke	Price €	Quantity scale from	Scale price €	Item no.
57	69	350				5611-1090
91	103	560				5611-0090

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
for tin-foil canisters	10	for pull-out spouts	max. 60		5603-2000

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
with discharge hose/stopcock	30	2" fine	max. 95		5603-3000



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.

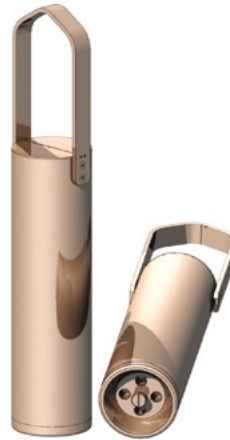
- ▶ With discharge angle and rotatable spout preventing drips
- ▶ With tapered spout for bottles with narrow openings with a diameter from 6 to 8 mm.
- ▶ Media-contacting parts PA conductive to electricity and PTFE
- ▶ Supplied with PA adapter conductive to electricity for 3/4" inner thread

Thread, inflowing side	Thread, outflowing side	Price €	Quantity scale from	Scale price €	Item no.
3/4" inner thread cap nut	spout/nozzle				0525-1100

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	81		5365-1000
AlSi 304	1900	81		5365-2000

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 (3.0 kg) for fast lowering
- ▶ 1000 ml contents
- ▶ Height with handles 385 mm
- ▶ Tested for use in the Ex protection zone 0



Use

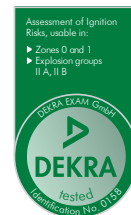
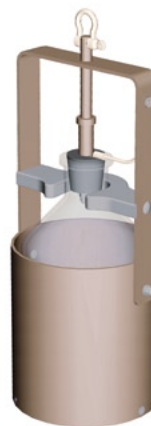
1. Lower the dipping bottle to the required depth.
2. Pull chain/cable with a short, powerful jerk, the stopper opens.
3. The sample flows into the bottle
4. Raise the bottle with the chain/ cable.
5. Open the closure, empty the bottle

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

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 (3.1 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

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 380 mm
- ▶ Tested for use in the Ex protection zone 0



Point sampling

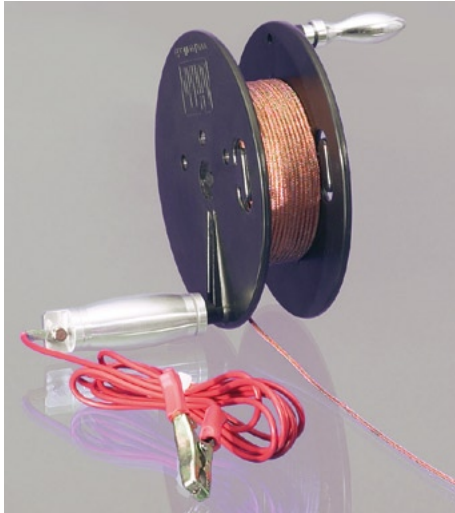
1. Two lowering cables required: (bearer cable and hauling cable)
2. Lower the immersion cylinder to the required depth
3. When the target has been reached, pull on the hauling cable, the valve opens.
4. The sample flows into the bottle
5. Release the hauling cable. The valve closes. Pull the cylinder 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	380		5365-7000

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

Lowering cable

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

Profi Sampler 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

Accessories

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

UniSampler "Ex"



Especially developed for sampling flammable liquids of Hazard Category AI (VbF, e.g. fuel). Glass bottle and hose are connected in such a way that they conduct electricity and are earthed via an earthing cable.

- ▶ Complete in a handy transport case incl. 4m hose, glass bottle 1000 ml, bottle adapter, vacuum pump, earthing cable and hose-weight made of brass
- ▶ PTB approval D-333-009 618/00

Use

1. Earth the device.
2. Lower the suction hose to the required depth.
3. Attach the adapter to the sampling bottle.
4. Create a vacuum using the handpump and collect the sample.
5. Remove the filled sample bottle, close and label it.

Price €	Quantity scale from	Scale price €	Item no.
			5314-3000