

# 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 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

#### Stainless steel barrel pump - discharge tube

Barrel pump made of stainless steel with discharge tube.

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

#### Stainless steel barrel pump - discharge hose/stopcock

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



⚠ Not suitable for acetone!



#### ① Stainless steel barrel pump - discharge tube

Immersion depth cm	Total length cm	Pump capacity ml per stroke	Item no.
36	48	220	5601-0400 N4
57	69	350	5601-0500 N4
91	103	560	5601-0800 N4

#### ② Stainless steel barrel pump - discharge hose/stopcock

Immersion depth cm	Total length cm	Pump capacity ml per stroke	Item no.
36	48	220	5601-0401 N4
57	69	350	5601-0501 N4
91	103	560	5601-0801 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 10 litres. For reliable filling and dosing of solvents and readily flammable liquids. The hand pump works according to the excess pressure principle. In this way only the hose, pumping tube and discharge come in contact with the liquid being filled. To ensure safety, a pressure relief valve protects the solvent pump against excessive pressure build-up.

- ▶ Ideal for 1–5 l containers
- ▶ Connecting thread GL 45
- ▶ Parts in contact with medium made of PTFE and stainless steel
- ▶ AISI 304 (1.4301), AISI 316L (1.4404)
- ▶ PTFE hose (6x8 mm) 0.4 m
- ▶ Including grounding cable 2 m
- ▶ Adapter available as accessory for S 40, GL 38 and GL 32

Material	Pump capacity approx. l/min	Thread	Item no.
Stainless steel/PTFE	1.8	GL 45	5603-4000 N4

## Solvent pump hand operated

Hand-operated solvent pump for contamination free removal of organic solvents and flavouring agents.

- ▶ Medium-contacting parts made of stainless steel AISI 304 (1.4301) and PTFE
- ▶ Rigid discharge tube with stopcock made of stainless steel/PTFE
- ▶ Suitable for containers with R 2" thread
- ▶ Thread adapter for commercially available containers available as accessory

Version	Pump capacity approx. l/min	Connector thread	Immersion depth cm	Item no.
Solvent pump hand operated	10	2" fine	60	5603-1000 N4
for tin-foil canisters	10	for pull-out spouts/35 mm dia.	60	5603-2000 N4



## Solvent pump foot operated

Solvent pump foot operated for filling off high purity liquids such as solvents.

- ▶ Immersion tube can be steplessly adjusted to the barrel depth
- ▶ For barrels up to 220 litres
- ▶ Suitable for steel barrels with R 2" thread
- ▶ Thread adapter for commercially available containers and air filters for ultra-pure drawing-off available as accessory

Version	Pump capacity approx. l/min	Connector thread	Immersion depth cm	Item no.
with discharge tube	20	2" fine	95	5603-1100 N4
with discharge hose/stopcock	20	2" fine	95	5603-3000 N4



## Withdrawal system for solvents



The withdrawal system can be used to dispense high-purity liquids quickly and without complications. An excess pressure is produced in the container with pressurised gas (compressed air or nitrogen), thereby pumping the liquid out of the tank. In this way, large amounts of hazardous media such as acetone, ethanol and methanol, etc. can also be safely

dispensed and accurately metered. For use with media sensitive to oxygen or for ultra-pure media, operation with an inert gas (e.g. nitrogen) is possible. The barrel screw connection and shut-off valves seal off the barrel and pump hermetically. This means that no vapours containing solvents can escape after dispensing.

### Withdrawal system for solvents with discharge tube

Immersion depth cm	Purpose	Pump capacity approx. l/min	Item no.
60	for tanks up to approx. 60 l	10	5603-5001 N4
95	for barrels up to approx. 220 l	10	5603-5003 N4

### Withdrawal system for solvents with discharge hose

Immersion depth cm	Purpose	Pump capacity approx. l/min	Item no.
95	for barrels up to approx. 220 l	10	5603-5004 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



### 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	Dia. mm	Item no.
brass	82	5365-1000 N4
AISI 304	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 (3.3 kg) for fast lowering
- ▶ 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. Empty the bottle.

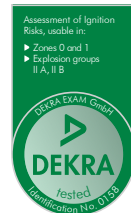


Capacity ml	Dia. mm	Item no.
1000	89	5365-3000 N4

## 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 (3.2 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



### 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	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 for fast lowering
- ▶ Robust handle
- ▶ 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.

### Bottom 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	Ø mm	Height mm	Weight g	Item no.
500	75	300	3000	5365-7500 N4
1000	75	450	4300	5365-7000 N4

## Compact jerrycan, electroconductive

The space-saving canister, made of electrically conductive HDPE, is especially well suited for use in explosion-proof areas. With a specific surface resistance of  $<10^5$  ohms, the canister has a very high electrical conductivity. When correctly earthed, it prevents the danger of ignition due to an accumulation of electrostatic charge. The canister thus helps to meet the requirements of the ATEX 137, TRBS2153 and CENELEC 50404 guidelines. For the version with 3/4" threaded connector, a stop cock can be mounted, for example the StopCock PA, which is electrically conductive.

- ▶ HDPE, black, anti-static
- ▶ With or without thread support 3/4"
- ▶ Canister support made of aluminium for secure stand as accessory (only for 5 l canister)



### Compact jerrycan, electroconductive

Model	Capacity l	Width mm	Depth mm	Height mm	Item no.
without threaded connector	5	65	335	335	0435-1055 N4
without threaded connector	10	125	335	335	0435-1105 N4
with threaded connector 3/4"	5	65	335	335	0435-2055 N4
with threaded connector 3/4"	10	125	335	335	0435-2105 N4


## Profi Sampler aluminium

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

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, 20 seal-it bottle seals, earthing cable.



### Profi Sampler aluminium

	Item no.
	5305-1100 N4
 Accessories	
Description	Item no.
Straight suction tube for ProfiSampler, PA black, el. cond. (10 pcs./220 cm)	5305-1024 N4

## 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.



### 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 dia.: 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. Tensile load max. up to 10 kg.

### Manually-operated reel

Model	Item no.
Manually-operated reel Ex with grounding cable	5309-0030 N4

### Lowering cable

Model	Length m	Dia. mm	Item no.
Copper lowering cable EX with loops	10	4,5	5309-0410 N4
Copper lowering cable EX with loops	25	4,5	5309-0425 N4
Copper lowering cable	50	4,5	5309-0450 N4



### Anti-static set

Item no.
5602-1000 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	Item no.
3/4" inner thread cap nut	spout/nozzle	0525-1100 N4