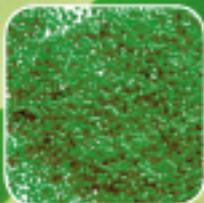
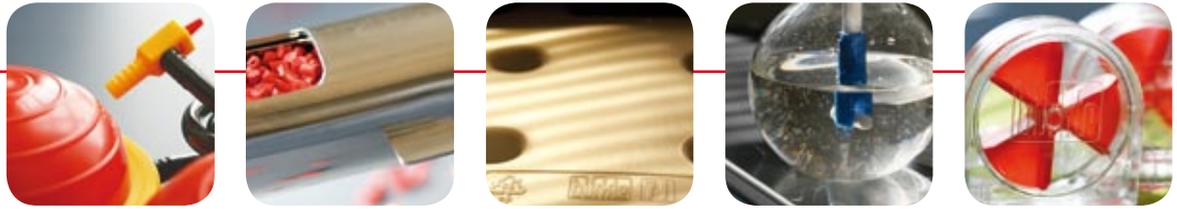


Filling Machines | Sampling | Plastic Labware  
for Laboratory, Industry, Science



2009



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**Pumps**  
for liquids and pastes

## Fill off liquids – but do it safely

Safety is the number one priority

Hazardous liquids must never be filled off by pouring them out directly. Even the use of a funnel does not provide the required degree of safety when filling off hazardous liquids.

- ▶ Increased accident risk by slipping on dirty floors.
- ▶ Skin diseases or poisoning by spilt chemicals.
- ▶ Health hazard from harmful vapors.



OTAL foot pump, p. 10

OTAL Hand pump, p.12

Safety during filling off must be the number one priority – for your own personal protection!

This means that purchasing a suitable pump for filling off hazardous liquids is an investment in the safety and health of your employees which pays for itself in a very short time.

The choice of the correct pump

Apart from the type and size of the container, the required pump capacity and the suitability of the pump for the particular medium are important for the choice of the correct pump. The pump must not only be resistant to the medium to be filled, but in many cases particular occupational safety and environmental protection regulations must also be taken into consideration.

Pump capacity

Electric pumps are the first choice for filling off large amounts at a fixed location.

Their higher pumping capacity saves times and requires less manual effort. However, the purchase of an expensive electric barrel pump does not always pay for itself; there is often no on-site mains supply, e.g. in the open air, during erection work or in working material stores.

Manual pumps are an interesting alternative to electric pumps for filling off small amounts because they do not need a power supply and have a good price-performance ratio. Bürkle offers a wide range of filling devices for manually removing liquids from containers, canisters, drums and tanks.

Type and size of container

Pumps that work according to the excess pressure principle are suitable for filling off the required amounts from canisters and small drums up to a capacity of approx. 60 liters. Air is pumped into the container by a pumping ball or pumping piston. This creates excess pressure in the container and the liquid is transported out via the immersion tube.



Protective clothing, from p.50



Container connections, p. 19 and 22



Gas-tight barrel pump, p.26



Siphon, p.39



Antistatic Set, p.23

Barrel pumps are suitable for larger barrels and open containers, these draw in the liquid and then eject it. This family of pumps is characterized by their robust construction with a good pumping capacity and simple handling. Different immersion tube lengths mean that the pumps fit all the usual commercially available containers. Low-mounted suction valves ensure that almost all the residual liquid is removed.

### Container connections

In contrast to metal drums, which usually have an R2" fine thread, there are no standard connection threads for plastic drums. There are basically two different ways of attaching the pump to the drum or container.

1. The pump can be screwed onto the existing container thread using a barrel screw joint, possibly in combination with an adapter.
2. Universal solutions such as conical drum stoppers can be used.

### Materials

The most suitable pumps are robust industrial pumps made from top-quality materials such as polypropylene (PP) for acids and alkalis or stainless steel V2A (1.4301) for flammable liquids. We always recommend the use of PTFE seals.

Always check that the material is resistant to the medium to be pumped. In many cases a check against the chemical resistance list will help – see page 240.

### Filling aids

Plastic siphons are a low-priced alternative to mechanical pumps. Siphons are easy-to-use devices for safely filling off liquids from a higher container into a lower one. However, their use with aggressive or flammable liquids cannot be recommended. The pump bellows could be attacked by acids and become brittle.

## Acids and alkalis

Acids, alkalis and detergents can be safely handled by plastic pumps made from PP or PVDF. Bürkle offers many plastic pumps with both rigid discharge pipes and also with discharge tubing and shut-off valve for filling distant or higher standing containers. When handling corrosive or aggressive liquids the user should take appropriate precautions. Protective clothing such as gloves, goggles, aprons and face masks is essential.



Barrel pump PP, p.18



Stainless steel barrel pump, p.20

## Flammable liquids

Filling off flammable liquids requires special precautionary measures. It is essential that filling devices for flammable liquids are made of conductive materials. It is essential that any electrostatic charges formed are eliminated completely and without spark formation. Stainless steel barrel pumps meet these requirements when the electrostatic charges are eliminated by using the Antistatic Set.



## Gas-tight filling off

With volatile media, such as acetone or ammonia, hazardous vapors are formed in the container. Their evaporation into the surroundings and the risk to the user can be reduced by using a gas-tight barrel connector. With particularly toxic, noxious and readily volatile media a closed filling system with a gas-shuttle pipe is essential. In this method the gases displaced from the container are returned directly into the original container. The health endangering gases remain in the system; the greatest possible degree of safety during filling off is guaranteed.



## Foodstuffs

If foodstuffs are to be filled off then it must be ensured that the materials used are physiologically harmless. Materials such as stainless steel, polypropylene or PTFE, which also have a neutral taste and odor, can be recommended. The pump must also be easy to clean.



# Overview of pumps

Article	Page	Liquids	Pastes	Gases	Acids and caustic solutions	Acids and caustic solutions, weak	Mineral oils, Diesel etc.	Petrochemicals	Pharmaceuticals/cosmetics	Solvents	Flammable liquids	Foodstuffs	Water	Dosing pumps	Gastight decanting	Storage containers	Bottles up to 2 liters	Canisters up to 20 liters	Laboratory barrels 10/25 liters	Containers up to 60 liters	Barrels up to 220 liters	Open containers/tanks	Conveying capacity l/min		
<b>Manually operated pumps</b>																									
Barrel pump in PP	18	x			x	x			x			x	x								x	x		12	
Barrel pump Ultrapure in PTFE	24	x			x	x		x	x	x	x	x	x								x	x		10	
Battery pump	32	x				x							x												
DosiFüll	46	x						x	x	x	x	x	x	x				x	x	x	x	x		0.005-1	/stroke
DosiPast	48		x						x			x				x								0.005-0.5	/stroke
Dosi-Pump	38	x			x			x			x	x	x				x	x						0.5-20	
Double-diaphragm pump	35	x			x	x		x					x											16	
Gas-tight barrel pump in PP	26	x			x	x							x							x	x			12	
Gas-tight barrel pump in stainless steel	27	x					x	x		x	x		x		x			x	x	x	x				
Hand operated lever pump	33	x					x	x		x			x									x	x	25	
Lever pump	32	x			x	x	x						x									x		15	
Mini pump in PP, OTAL	13	x			x	x		x	x			x	x					x						4	
OTAL liquid transfer pumps	8	x			x			x	x	x		x	x					x	x	x	x			26	
Piston pump	32	x			x	x	x						x									x		15	
Pump-it® container pump	15	x			x	x		x	x	x		x	x					x	x	x				8	
PumpMaster container and barrel pump	16	x						x	x	x			x					x	x	x				8	
Rotary piston pump	33	x					x	x		x	x		x								x	x	x	30-40	
Siphon	39	x			x		x					x	x					x	x	x					
Solvent pump foot operated	14	x					x	x	x	x	x	x	x							x	x	x		20	
Solvent pump hand operated	15	x			x	x	x	x	x	x	x	x	x		x					x				9	
Stainless steel barrel pump	20	x			x	x	x	x	x	x	x	x	x		x			x	x	x	x			12	
Wall mounted dosing machine	49	x					x	x	x	x				x				x	x	x	x	x			
<b>Electrical pumps</b>																									
Drum pump for concentrated acids and alkalis	32	x			x	x			x			x	x									x		80	
Drum pump for mineral oils	33	x					x	x			x		x									x		85	
Drum pump for slight acids and alkalis	32	x				x			x			x	x									x		85	
Electric barrel pump petro	36	x					x	x			x												x	40-55	
Laboratory pump mains operated	31	x			x	x		x	x			x	x								x	x		40-70	
Magnetic centrifugal pump	37	x			x	x				x			x											12/24	
Membrane vacuum pump	39			x																				16	
<b>Accessories</b>																									
Anti-statics set	25										x														
Barrel valve	45	x																				x			
Stop-cocks and ball valves	42	x			x	x						x	x				x	x	x	x	x	x			



## OTAL liquid transfer pump | draw off liquids safely, rapidly and cleanly

The OTAL pump program has been on the market for 50 years. The pumps are known and appreciated for their easy handling in daily use.

Thanks to the simple stopper system OTAL pumps can be used for almost all common containers. OTAL Mini allows even very small containers to be filled.

Only the tube comes into contact with the liquid when OTAL pumps are used, so that almost every liquid can be filled off using the tube models in PP, PVDF and stainless steel 304. The different tube diameters make individual adjustments to required transfer volumes possible.

All OTAL pumps have a stop switch, which enables simple pre-dosing.

The OTAL foot pump has a further great advantage, particularly when filling corrosive liquids. It is designed so that both hands are free during the pumping process.

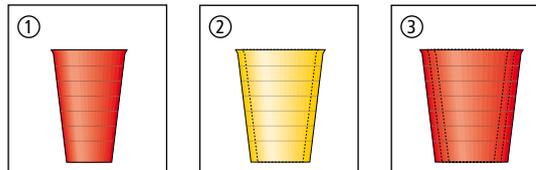
- ▶ Optionally as foot or hand pump available
- ▶ Universal bungs for container openings from 30 – 70 mm diameter
- ▶ Tubes made of PP, PVDF and stainless steel 304 for different liquids

Bürkle OTAL handpumps and footpumps are recommended by trade associations for the safe drawing off of liquids.



### The stopper must fit!

Filling with the time-proven OTAL pumps is particularly easy as the liquid is forced out of the container by the excess air pressure. The liquid flow is uniform without any pulsation. However, it is important that the connection between the pump and the container is airtight. This is ensured by the universal bung made of flexible PVC, which consists of three parts: a conical center (1) and 2 conical sleeves (2 and 3) which can be moved up and down the conical center. This means that it is possible to obtain an airtight seal between OTAL pumps and container openings from 30 to 70 mm dia.



Section through a universal stopper



Please observe the instructions for use and the safety information. Wear protective clothing. See page 50 to 52.



## OTAL foot pumps

- ▶ Safe handling, both hands free
- ▶ Very good transfer volume thanks to the large-volume foot bellows
- ▶ With universal bung for container openings of 30 – 70 mm diameter or with special stoppers

## OTAL foot pumps

with **PP delivery tubes**; resistant against weak acids, caustic solutions and detergents.

with **delivery tubes made of PVDF** for acids and caustic solutions; not for strongly oxidizing acids and caustic solutions. Resistant against chemical bleaching agents.

with **delivery tubes made of AISI 304 stainless steel** for solvents and liquids of VbF Hazard Class AIII (not easily flammable).



# OTAL foot pump | high performance, sturdy, for industrial use



## ① Foot pump made of PP

Delivery tube made of PP and with universal stopper made of soft PVC. When the pump is inserted into the container the telescopic immersion tube adapts itself to the container height. This ensures good removal of residual liquid and means that the pump can be used with different containers.

- ▶ Three sizes available
- ▶ Fits containers with openings 30 – 70 mm dia.

## ② Foot pump with hose and stopcock

Delivery tube made of PP, universal stopper made of soft PVC and 1.5 m delivery tubing 10 mm dia. made of PVC with PP/PE stopcock.

## ③ Foot pump made of PVDF

With universal stopper made of soft PVC and delivery tube made of PVDF. With its special material properties PVDF has an even better chemical resistance than PP.

## ④ Foot pump made of stainless steel

With universal stopper made of soft PVC and stoppers made of PE (48 – 56 mm dia., 54 – 62 mm dia. and 60 – 68 mm dia.)

Make sure to pay attention to the "List of Chemical Resistance"! – <http://www.burkle.de>

① Foot pump with delivery tubes made of PP						
Pump capacity l/min	Tube dia. mm	Length of immersion tube cm	Price/Unit	Price/Unit of (X) units	Article No.	
30	22	90	<b>87,35</b>	(10) 76,95	5000-2200 N4	
26	18	70	79,05		(10) 71,75	
20	15	70	5000-1800 N4			
			76,95	(5) 72,80	5000-1500 N4	

② Foot pump with delivery tubes made of PVC						
Delivery tube made of	Pump capacity l/min	Tube dia. mm	Length of immersion tube cm	Price/Unit	Price/Unit of (X) units	Article No.
② PVC	12	10	70	79,05	(10) 71,75	5000-3012 N4
③ PVDF	20	16	70	118,55	(10) 109,20	5000-4016 N4
④ V2A	26	18	90	118,55	(10) 109,20	5000-5018 N4

## OTAL hand pumps

- ▶ Especially compact, space-saving pumps
- ▶ Good discharge rate
- ▶ With universal bungs for container openings of 30 – 70 mm diameter or with special stoppers (see table)

## OTAL hand pumps

with **delivery tubes made of PP**, resistant against weak acids, caustic solutions and detergents; not resistant against chemical bleaching agents.

with **delivery tubes made of PVDF**, especially for acids and caustic solutions; not for strongly oxidizing acids and caustic solutions

with **delivery tubes made of stainless steel 304**, for solvents and liquids of VbF Hazard Class AIII (not easily flammable).



# OTAL hand pump | to fit most commercial storage drums



## ① Hand pump made of PP

Delivery tube made of PP and with universal stopper made of soft PVC. When the pump is inserted into the container the telescopic immersion tube adapts itself to the container height. This ensures good removal of residual liquid and means that the pump can be used with different containers.

- ▶ Three sizes available
- ▶ All OTAL hand pumps (except Mini pump) fit containers with openings 30 – 70 mm diameter

## ② Hand pump made of PVDF

With universal stopper made of soft PVC and delivery tube made of PVDF. With its special material properties PVDF has an even better chemical resistance than PP. Resistant to chlorine bleaches.

### ① Hand pumps with delivery tubes made of PP

Pump capacity l/min	Tube dia. mm	Length of immersion tube cm	Price/Unit	Price/Unit of (X) units	Article No.
26	18	70	66,55	(5) 63,45	5005-1800 N4
20	15	70	65,50	(10) 60,30	5005-1500 N4
14	12	70	62,40	(10) 55,10	5005-1200 N4

## ③ Hand pump made of stainless steel

With universal stopper made of soft PVC and stoppers made of LDPE (48 – 56 mm dia., 54 – 62 mm dia. and 60 – 68 mm Ø dia.) This pump is suitable for use with flammable liquids of VbF Hazard Class A III .

## ④ Hand pump with hose and stopcock

With 1.5 m delivery tubing made of PVC with PP/PE stopcock, delivery tube made of PP and universal stopper made of soft PVC. The delivery tubing is particularly suitable for filling off from distant containers.

## ⑤ Mini pump made of PP

With delivery tube made of PP and universal stopper made of PVC for container openings 20 – 36 mm dia. Ideal for containers up to 10 liters.

Delivery tube made of	Pump capacity l/min	Tube dia. mm	Length of immersion tube cm	Price/Unit	Price/Unit of (X) units	Article No.
② PVDF	20	16	70	112,30	(10) 102,95	5005-3000 N4
③ V2A	26	18	90	112,30	(10) 102,95	5005-4000 N4
④ PVC	12	10	70	65,50	(10) 58,25	5005-6000 N4
⑤ PP	4	10	45	44,60	(10) 40,25	5005-1000 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 (Viton). The barrel screw joint and stopcock provide a hermetic seal between the container and the pump so that unwanted vapors cannot escape during the filling process. Massive, long-life industrial version.

- ▶ Rigid discharge tube with stainless steel/Teflon® stopcock
- ▶ Stepless adjustment of immersion tube length to suit barrel depth
- ▶ For barrels up to 220 liters
- ▶ Suitable for steel drums with R 2" thread
- ▶ Barrel screw joints for commercially available barrels as accessories
- ▶ New: Clip connection for fast plugging and unplugging of the air hose
- ▶ New: Air filter for extra clean filling available
- ▶ New: Discharge hose available



- ① Clip-connection
- ② Air filter

**⚠** When withdrawing flammable liquids, the barrel and pump has to be grounded!  
Use Anti-static set!



## Solvent pump foot operated

	Immersion depth cm	Screw joint	Pump capacity max. l/min	Price/Unit	Price/Unit of (X) units	Article No.
with rigid discharge tube	max. 95 cm	2" fine	19	348,40		5603-1100 N4
with discharge hose	max. 95 cm	2" fine	19	466,95		5603-3000 N4

## Thread adapters available for

inner DIN 71 inner 2"				12,50	(5) 11,90	0600-1003 N4
DIN 61/31 a.				7,80	(5) 7,45	0600-2001 N4

## Accessories

Air filters, Pack of 10				12,50	(5) 11,90	0600-1003 N4
Anti-static set				39,10		5602-1000 N4

# Solvent pump hand operated

For contamination-free withdrawal of organic solvents and flavouring agents. Fits all containers up to a capacity of 60 l.  
The pump is gastight and can be shut completely with two ball valves.

- ▶ Parts coming in contact with medium made of stainless steel and FPM (Viton).



**New:** Solvent pump for tin-foil canisters with pull-out spout. No more hazardous decanting of harmful media!

The included thread adapter fits to the standard pull-out spouts.

**!** When withdrawing flammable liquids, the barrel and pump has to be grounded!  
Use Anti-static set!

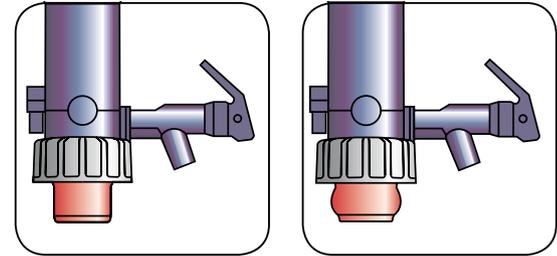
Solvent pump hand operated		NEW					
	Immersion depth	Screw joint	Pump capacity max. l/min	Price/Unit	Price/Unit of (X) units		Article No.
Solvent Pump hand operated	max. 60 cm	2" fine	10	318,25			5603-1000 N4
For tin-foil canisters	max. 60 cm	Pull-out spout	10	334,90			5603-2000 N4
<b>Thread adapters available for</b>							
	inner DIN 71	inner 2"		12,50	(5)	11,90	0600-1003 N4
	DIN 61/31 a.			7,80	(5)	7,45	0600-2001 N4
<b> Accessories</b>							
	Anti-static set			39,10			5602-1000 N4



Antistatic set page 23

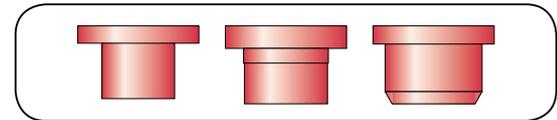


# PumpMaster container and barrel pump | flexible, for universal use



Stopper released

Stopper expanded



Three stopper sizes

PumpMaster container pumps are designed for fast and clean emptying of canisters and small barrels. Excess pressure is generated using the piston handpump, which pushes the liquid out of the container. Pump capacity approx. 9 l/min. The sensitive discharge control valve allows even small amounts of liquid to be discharged.

- ▶ Immersion tube length 950 mm

**⚠** Make sure to pay attention to the "List of Chemical Resistance"! <http://www.buerkle.de>

PumpMaster container and barrel pump, complete with 3 stoppers					
Seal	Color code	Delivery rate l/min	Price/Unit	Price/Unit of (X) units	Article No.
PP/EPDM	red	9	106,10	(10) 94,65	5202-2000 N4
PP/Nitrile rubber	blue	9	106,10	(10) 94,65	5202-3000 N4

PumpMaster is mounted on the container using a flexible stopper with a variable and adjustable diameter. No special thread adapters are required. PumpMaster fits all commercial container openings from 49.5 mm to 60 mm diameter. The immersion tube has a length of 95 cm; depending on the size of the container it can be shortened if necessary.

- ▶ Type red for non-aggressive liquids
- ▶ Type blue for petrochemical liquids

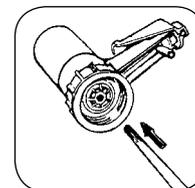
### Chemical resistance

Do you already know about our list containing the chemical resistance of plastics? This list contains information about the resistance of plastics, stainless steel and aluminum to more than 1600 media. It also contains information about viscosities, chemical formulas and CAS numbers.

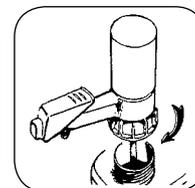
You can find it in on our website: <http://www.buerkle.de>



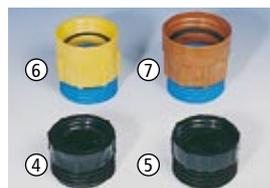
Adapter for different internal threads



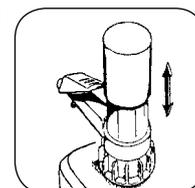
Firmly attach delivery tube to Pump-it®



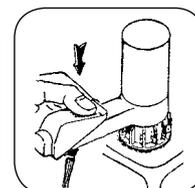
Screw Pump-it® on to container



Adapter for different external threads



Pump air into container



Open drain valve and draw off liquid

Pump-it canister pumps are designed for emptying canisters and small barrels up to 60 l rapidly and cleanly. The hand pump is used to create an overpressure that forces the liquid out of the canister.

Pump-it is suitable for weak acids, bases and petrochemicals. Please take into account the detailed information about chemical resistance given under <http://www.buerkle.de>. Not suitable for hydrochloric acid!

- ▶ Medium-contacting parts made from PP, PE and Viton®
- ▶ For liquids with a viscosity of up to 500 mPas at 20 °C
- ▶ Pump thread fits container thread 64 mm dia. (BSI)
- ▶ Thread adapters for all standard barrel threads are available
- ▶ Exact dosage, no drips
- ▶ Container completely emptied thanks to stepless length adjustment of immersion tube

### Pump-it® container pump (without thread adapter)

Material description	Immersion depth cm	Pump capacity l/min	Price/Unit	Price/Unit of (X) units	Article No.
PP/Viton	100	8	100,15	(10) 90,10	5201-1000 N4

### Accessories

Thread adapter set containing ① to ⑤ see table on the right side	43,15	(10) 38,90	5201-0030 N4
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### Adapter for internal thread

Internal thread	Colour code	Price/Unit	Price/Unit of (X) units	Article No.
① 2" thread, Mauser L-ring	green	9,80	(10) 8,95	0600-3004 N4
② 2" thread Tri-Sure®	brown	9,80	(10) 8,95	0600-3002 N4
③ 2" fine thread steel drum	blue	9,80	(10) 8,95	0600-3003 N4

### Adapter for external thread

④ DIN 60, Mauser-Fasset	black	14,25	(10) 13,00	0600-1014 N4
⑤ DIN 51	black	16,35	(10) 14,65	0600-1016 N4
⑥ DIN 61	yellow/blue	16,35	(10) 14,65	0600-1013 N4
⑦ DIN 71	brown/blue	16,35	(10) 14,65	0600-1001 N4



## PP barrel pump | robust industrial quality

Polypropylene barrel pumps allow the rapid and economical transfer of liquids from barrels, canisters, tanks. The good chemical resistance of PP allows acids, alkalis and aggressive detergents to be transferred. Please take into account the information about chemical resistance. The low-mounted non-return valve ensures good removal of residual liquid.

Two versions of the barrel pump are available:

- ① with rigid discharge tube
- ② with flexible PVC discharge hose, length 1,25 m with stopcock

- ▶ PTFE gaskets
- ▶ Immersion tube 32 mm dia.
- ▶ Pump capacity up to approx. 12 l/min
- ▶ For barrels and tanks from 60 – 1000 liters
- ▶ The barrel screw joints allow the pumps to be safely attached to the container.

The immersion depth can be steplessly adjusted. This ensures good removal of residual liquid.



① PP barrel pump with rigid PP discharge tube  					
Submersible length mm	Total length mm	Pump capacity ml/stroke	Price/Unit	Price/Unit of (x) units	Article No.
500	595	200	116,50	(5) 107,10	5600-0501 N4
650	740	230	116,50	(5) 107,10	5600-0651 N4
800	895	260	120,65	(5) 110,25	5600-0801 N4
1000	1090	300	126,90	(5) 113,35	5600-1001 N4
1250	1340	300	144,55	(5) 135,20	5600-1251 N4
1500	1590	300	151,85	(5) 146,65	5600-1501 N4
② PP barrel pump with discharge hose 1,25 m and stopcock					
500	595	200	116,50	(5) 107,10	5600-0502 N4
650	740	230	116,50	(5) 107,10	5600-0652 N4
800	895	260	120,65	(5) 110,25	5600-0802 N4
1000	1090	300	126,90	(5) 113,35	5600-1002 N4
1250	1340	300	144,55	(5) 135,20	5600-1252 N4
1500	1590	300	151,85	(5) 146,65	5600-1502 N4
C Accessories			Price/Unit	Price/Unit of (x) units	Article No.
PVC discharge hose 1,25 m with stopcock			10,70	(10) 10,30	5600-0100 N4
Wall fixture			15,80	(5) 14,35	5600-0081 N4
Safety stand (see p. 25)			38,15	(5) 34,40	5618-0100 N4
Universal barrel spanner (see p. 22)			21,85	(10) 19,55	5690-0090 N4
 Sealing set			7,70	(10) 7,30	5600-0067 N4
PP barrel screw joint					
③ R2", internal steel-barrel thread			19,55	(5) 17,80	5600-3130 N4
④ Container screw joint			26,50	(5) 25,50	5600-3140 N4
⑤ PVC Barrel plug for 40–70 mm opening diameter			17,70	(5) 15,70	5600-3150 N4
⑥ Mauseur 2", internal coarse thread			23,60	(5) 21,30	5600-3170 N4
⑦ Tri-Sure®, internal coarse thread			23,60	(5) 21,30	5600-3180 N4



## Stainless steel barrel pump | the pump for flammable liquids



The Bürkle barrel pump made of stainless steel is constructed for filling combustible and easily inflammable liquids. The pump can conduct electricity and consequently fulfills the requirements for handling flammable liquids in combination with the accessory antistatic set.

 **DEKRA**  
EXAMINED FOR USE  
IN EXPLOSION  
PROTECTION ZONE 0

**Best  
Seller!**

The PTFE gaskets ensure long-term and maintenance-free use. Pumping capacity approx. 9 – 22 l/min, dependent on pump length.

The wide range of accessories makes it possible to adapt the pump to very different requirements.

Stainless steel barrel pump with conductive discharge hose with stopcock and bolt connection.

# Stainless steel barrel pump | the reliable pump for flammable liquids



- ① Barrel pump with discharge tube
  - ▶ Removable discharge tube
  - ▶ Immersion tube 32 mm diameter
- ② Barrel pump with discharge hose and stainless steel stopcock
  - ▶ Immersion tube 32 mm diameter
  - ▶ Removable PTFE discharge hose, 1.2 m long
  - ▶ Electrical conductive discharge tube
  - ▶ Ball valve nozzle NW 8 made of stainless steel with 12.8 mm outlet



**!** Not suitable for acetone! Use art. no. 5603-1100 or 5603-3000 (p. 14) for acetone.

Article	Price/Unit of (X) units	Article No.
③ Brass barrel screw joint, nickel plated, for flammable liquids, R 2" Internal steel barrel thread	26,50 (5) 25,50	5601-0100 N4
④ Gastight barrel connector (see page 22), R2" steel barrel thread, shut-off valve with 1/8" connection. Nickel plated, gaskets made of Viton	89,45 (5) 82,15	5601-0130 N4
⑤ Anti-static set (see page 23)	39,10 (5) 35,25	5602-1000 N4
Hose with stopcock	145,60 (5) 134,15	5601-0090 N4
Discharge tube	52,00 (10) 46,90	5601-0080 N4
<b>Barrel screw joint Mauser 2", Internal coarse thread</b>	23,60 (5) 21,30	5600-3170 N4
<b>Barrel screw joint Tri-Sure®, Internal coarse thread</b>	23,60 (5) 21,30	5600-3180 N4
⑥ <b>PVC barrel plug, 40 – 70 mm opening-dia.</b>	17,70 (5) 15,70	5600-3150 N4

① Barrel pump with discharge tube					
Submersible length mm	Total length mm	Pump capacity ml/stroke	Price/Unit	Price/Unit of (X) units	Article No.
360	475	220	163,30	(5) 146,65	5601-0400 N4
570	685	350	163,30	(5) 146,65	5601-0500 N4
910	1030	560	170,55	(5) 154,95	5601-0800 N4
② Barrel pump with discharge hose and stopcock					
360	475	220	271,45	(5) 260,00	5601-0401 N4
570	685	350	271,45	(5) 260,00	5601-0501 N4
910	1030	560	279,75	(5) 266,25	5601-0801 N4

## Accessories for barrel pumps | for all-round safety when drawing off liquids



**Brass barrel screw joint** for barrel pumps made of stainless steel. Prevents electrostatic charges in connection with the anti-static set. For safe decanting of flammable and hazardous liquids. For containers with internal R2" steel barrel thread.



**PP barrel screw joint**, for secure connection to barrels with choice of three different thread models. For decanting non-flammable liquids.



**Container screw joint**  
For attaching the barrel pump to any spot in the container wall or even in wide-shoulder screw caps. The 2" screw joint is screwed tight with a 2" counter-nut from inside (mounting hole in container = 60 mm).



**Gas-tight barrel connector**  
R2" internal steel barrel thread, non-return valve with 1/8" connection. Made of nickel-plated brass with Viton seals.



**PVC barrel plug**  
This universal adapter makes decanting even easier and safer with its more secure connection to barrels. For 40 – 70 mm diameter openings.



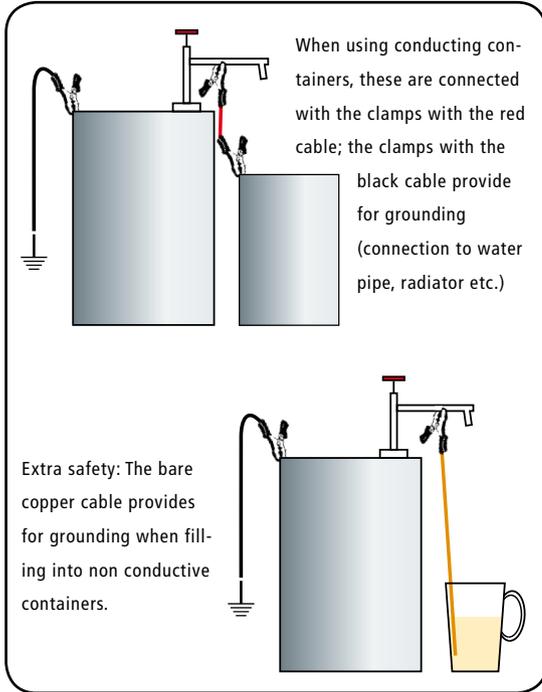
**Universal barrel spanner**  
for easy opening of tight barrel closures sized 3/4" to 2". An indestructible tool made of galvanized sheet steel.

### Suitable thread adapters

We can supply suitable thread adapters for most containers. You will find the adapters on Page 45 of this catalogue. We would be pleased to help you choose a suitable adapter.

Accessories for barrel pumps				
Article	Price/Unit	Price/Unit of (X) units	Article No.	
① <b>Brass barrel screw joint</b> R 2", internal steel barrel thread	26,50	(5) 25,50	5601-0100 N4	
② <b>PP barrel screw joint</b> R 2", internal steel barrel thread	19,55	(5) 17,80	5600-3130 N4	
<b>Mauser 2"</b> , internal coarse thread	23,60	(5) 21,30	5600-3170 N4	
<b>Tri-Sure®</b> , internal coarse thread	23,60	(5) 21,30	5600-3180 N4	
③ <b>Barrel bolt connection</b> for container openings = 59.5 mm	26,50	(5) 25,50	5600-3140 N4	
④ <b>Gastight barrel connector</b> R 2", internal steel barrel thread	89,45	(5) 82,15	5601-0130 N4	
⑤ <b>PVC barrel plug</b> for 40 – 70 mm opening-diameter	17,70	(5) 15,70	5600-3150 N4	
⑥ <b>Universal barrel spanner</b> for thread connectors from 3/4" to 2"	21,85	(10) 19,55	5690-0090 N4	
<b>Anti-static set</b> (see page 23) completely in a plastic case	39,10	(5) 35,25	5602-1000 N4	

# Anti-static set | prevents electrostatic build-up



When decanting flammable liquids without the machines and containers involved in the process being sufficiently grounded, electrostatic build-up can occur, which for many substances can result in fire or an explosion.

Bürkle's Anti-static set ensures easy and dependable grounding.

The Anti-static set consists of 3 color-coded connecting copper cables with clamps in a handy plastic case.

Especially when filling flammable liquids every day, the danger of electrostatic loading is often underestimated.

Photo: © Paul-Georg Meister/  
PIXELIO

Anti-static set	Price/Unit	Price/Unit of (X) units	Article No.
	39,10	(5) 35,25	5602-1000 N4

## PTFE barrel pump Ultrapure



For transferring ultrapure liquids. Liquid-contacting parts made of PTFE and FEP, with their chemical resistance even liquids which attack conventional materials such as PP or PVC can now be safely transferred (except for elemental fluorine). The stopcock prevents hazardous vapors from escaping and stops dripping.

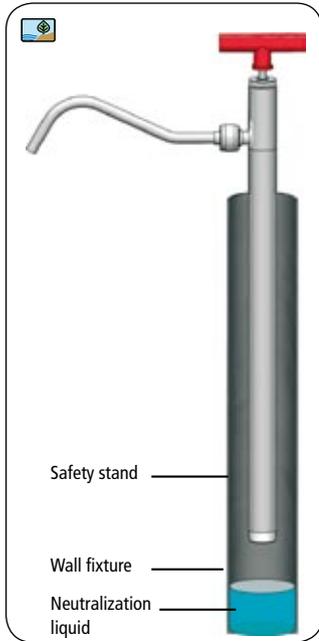
- ▶ Rigid discharge tube with stopcock made of PTFE/Teflon®
- ▶ Screw closures for standard barrels
- ▶ Immersion depth 95 cm
- ▶ All valves made of solid PTFE
- ▶ Top quality – 2-year warranty

### PTFE barrel pump Ultrapure



Immersion depth cm	Immersion tube dia. mm	Pumping capacity ml/stroke	Price/ Unit	Price/Unit of (X) units	Article no.
95	32	300	268,30	(10) 257,90	5606-1000 N4
<b>Accessories</b>					
<b>Wall fixture</b>			15,80	(5) 14,35	5600-0081 N4
<b>Safety stands (see page 25)</b>			38,15	(5) 34,40	5618-0100 N4
<b>PP barrel screw joint (see also pages 22) fits to</b>					
①	R 2", int. steel-barrel thread		19,55	(5) 17,80	5600-3130 N4
②	Mauser 2", int. coarse thread		23,60	(5) 21,30	5600-3170 N4
④	Tri-Sure®, int. coarse thread		23,60	(5) 21,30	5600-3180 N4

## Safety stand for pumps



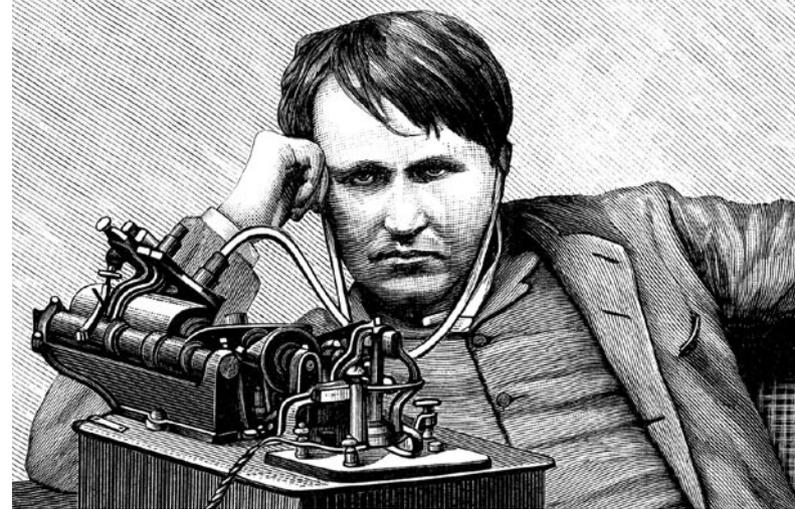
### Safety stand for pumps protects against leaking chemicals

Filled to one third with the appropriate neutralization agent or water, any residual liquid from the pump is diluted, neutralized and rendered safe.

The safety stand is resistant against diluted acids and alkalis.

Safety stand for pumps				
Immersion depth cm	Inner diameter mm	Price/Unit	Price/Unit of (X) units	Article No.
100	55	38,15	(5) 34,40	5618-0100 N4

## Inventor's Market



A good idea that goes to waste in a drawer due to lack of time or money is a help to nobody.

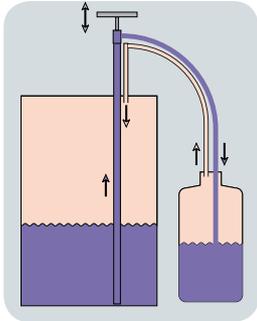
The Inventor's Market is looking for good ideas, product improvements and constructive criticism.

Of course, we are constantly producing more innovative products and improving our traditional ones.

"But what about all the good ideas of our users that lie dormant?" we have asked ourselves. Now we are asking you directly: You have probably cursed at one time or another, because a tool was good in your daily work but not perfect. Help us to make it better.

With our Inventor's Market, we want to promote your good ideas and change them into cash for you and us. If you are interested and have one or more ideas for improvements, see [www.buerkle.de](http://www.buerkle.de) > News > Monthly draw > Edison

# Gas-tight barrel pump PP | odor-free liquid transfer with gas-displacement device



Liquid is pumped in a closed system (blue). Vapors are returned to the container via the gas-shuttle pipe (pink).

- ① The universal adapter prevents leaking and fits container openings of 30 – 70 mm diameter.
- ② The container screw joints can be screwed into the container using  $\frac{3}{4}$ " thread and the lock nut.

## Gas-tight barrel pumps made of PP

- ▶ Parts in contact with the liquid are made of PP and soft PVC (hose)
- ▶ Stepless extendable telescopic tube for barrel depths of 40 – 67 cm
- ▶ Pumping capacity approx. 200 ml per stroke
- ▶ Two adapters for original container

## Vapor-free filling

With normal pumps the escape of vapors into the atmosphere cannot be avoided.

The gas-shuttle method avoids this. Any vapors produced are returned from the container to be filled to the original container via the gas-shuttle pipe.

The gas pipe and the liquid pipe are additionally provided with stopcocks.

Gas-tight pumps are used for strongly smelling substances such as ammonia.



## Gas-tight barrel pumps made of PP

Type with

Price/Unit

Article No.

① Universal adapter 30 – 70 mm diameter

147,70

5610-1030 N4

② 2 screw joint adapters  $\frac{3}{4}$ " with lock nuts

147,70

5610-1040 N4

# Gas-tight barrel pump | odor-free liquid transfer with gas displacement system



3 versions:

① **With rigid discharge tube** for filling off into small bottles and containers. The bottle is pressed against the connection cone manually.

② **With flexible discharge tubing** for filling off into larger canisters and containers. Convenient liquid transfer as the canister can be left standing on the floor. The connection cone is pressed against the canister manually.

③ **With filling station** for small series. The bottle is placed beneath the filling device. A spring presses the connection cone against the bottle to form a seal. Convenient 1-hand liquid transfer. Suitable for bottles with a height of up to 30 cm.

Each of the three versions is equipped with a gas-displacement device for odor-free liquid transfer (see p. 26).

- ▶ Medium-contacting parts: AISI 304 stainless steel, PTFE, nickel-plated brass, conductive PA.
- ▶ With barrel screw joint, 2" thread
- ▶ For bottle openings 16 – 49 mm
- ▶ Screw-on discharge tube/tubing

- ▶ Immersion tube 32 mm dia. The pump can be hermetically sealed with 2 ball valves for odor-free liquid transfer using the gas-displacement method.

Not suitable for acetone! See p. 14/15

① Barrel pump with discharge tube <span style="float: right;">NEW  </span>					
Submersible length mm	Total length mm	Pump capacity ml/stroke	Price/Unit	Price/Unit of (x) units	Article No.
570	685	350	629,20	(5) 575,10	5611-1080 N4
910	1030	560	655,20	(5) 600,10	5611-0080 N4
② Barrel pump with discharge hose and stopcock					
570	685	350	599,05	(5) 548,10	5611-1090 N4
910	1030	560	618,80	(5) 566,80	5611-0090 N4
③ Filling station barrel pump with discharge hose and stopcock					
570	685	350	1047,30	(5) 958,90	5611-1100 N4
910	1030	560	1067,05	(5) 977,60	5611-0100 N4

## Viscosity of liquids

### The right pump for each liquid

Pumps are used in widely different fields of application. Bürkle offers a large number of different versions. However, when choosing a suitable pump several criteria must be considered. The most important are the viscosity, structure and density of the liquid.

How the liquid behaves under the influence of external influences, e.g. variations in temperature and pressure, is also important.

We would be pleased to help you make certain that you choose the correct pump for your application.

### Viscosity – what actually is viscosity?

The viscosity characterizes the flow behavior of a liquid. High-viscosity liquids are thick, low-viscosity liquids thin. This viscosity results from intermolecular forces; these are also known as the internal friction. This internal friction decreases as the temperature increases and increases as the temperature decreases.

The dynamic viscosity is given in Pas, for low-viscosity liquids in mPas. It is defined as the force in newtons that is necessary to displace a liquid layer of 1 m<sup>2</sup> and 1 m height along a boundary parallel to a second layer at a speed of 1 m·s<sup>-1</sup>.

### Viscosity using motor oil as an example

Everyone has heard of the viscosity terms for motor oil. This classification is based on the flow behavior of the motor oil as a function of the temperature. In Winter low-viscosity oils are required. In Summer the oil becomes hotter, but it must still remain sufficiently thick.

For example: SAE 5W-40. The first number defines the viscosity at 0 °F (-18 °C), the second for a temperature of 210 °F (99 °C). An oil with the classification 5W (W=Winter) is therefore thinner than a 15W motor oil  under cold conditions.



### Typical viscosity values in mPas at 20 °C

Kerosine	0,65	Blood (37 °C)	4 – 25	Olive oil	~ 100
Water	1,0	Coffee cream	~ 10	Hydraulic oil	~ 120
Mercury	1,5	Glycol	40	Yogurt	~ 150
Grape juice	2 – 5	Condensed milk	80	Motor oil 15W40	390

## Flow meter | easy to use



Compact electronic flow meter for electric drum and container pumps. For low-viscosity media.

- ▶ Measurement by the turbine wheel principle
- ▶ Can be calibrated depending on the medium
- ▶ Different versions for many different applications
- ▶ Automatic switch-on when flow is recognized
- ▶ Four resettable part-ranges and one fixed total range
- ▶ Measuring accuracy  $\pm 1\%$ , easy recalibration
- ▶ Long-life lithium battery
- ▶ Operating conditions up to 4 bar

Flow meter  				
Description	Flow range l/min	Connection	Price/unit	Article No.
for fuel oil, diesel, hydrochloric acid, sod. hydroxide, etc. Medium-cont. parts: TR 90 PP, Hastelloy C4, Viton®	5 – 90	G $\frac{3}{4}$ (laboratory pump p. 29)	469,60	5700-0111 N2
for fuel oil, diesel, hydrochloric acid, sod. hydroxide, etc. Medium-cont. parts: TR 90 PP, Hastelloy C4, Viton®	5 – 90	G $1\frac{1}{4}$ (pumps on pages 30/31)	463,85	5700-0121 N2
for highly aggressive liquids, chlorine bleaches, nitric acid, sulfuric acid, etc. Medium-contact-ing parts: TR 90 PVDF, Hastelloy C4, Viton®	5 – 90	G $1\frac{1}{4}$ (pumps on pages 30/31)	661,45	5700-0141 N2

## Laboratory pump mains operated



Low weight pumps with high delivery output for the transfer of small quantities of liquids with a viscosity up to 300 mPas from canisters, drums and narrow-necked vessels with a diameter from the mouth from 25 mm upwards.

- ▶ Splash water protected motor 230 V/200 W (IP 44)
- ▶ Built-in safety key as on/off switch
- ▶ Seal-less pump mechanism for acids and alkalis
- ▶ Suitable flow meter available as accessory
- ▶  $\frac{3}{4}$ " thread connection

Laboratory pump with hose connection, without hose 						
Material	Immersion depth mm	Pump tube dia. mm	Delivery height m wc	Quantity l/min	Price/Unit	Article No.
PP	700	25	5	40	504,00	5700-1100 N2
PP	1000	32	6,5	65	552,00	5700-3300 N2
Laboratory pump with 1,5 m PVC-hose, PP nozzle, 2 hose clips, discharge spout, wall bracket						
PP	700	25	5	40	624,00	5700-2200 N2
PP	1000	32	6,5	65	673,00	5700-4400 N2

## Drum pump | for acids and alkalis

## Drum pump | for concentrated acids/alkalis



For weaker acids, such as hydrochloric acid, phosphoric acid, chromic acid, battery acid, citric acid, etc.

For highly aggressive acids and alkalis, such as sulphuric acid, nitric acid, hydrofluoric acid, sodium hypochlorite etc.

- ① **Drum pump:** Motor 230 V, pump tube made of PP and stainless steel Hasteloy HC-4, hose connection PP 1¼"
- ② **Pumpset** consisting of: Motor 230 V, pump tube made of PP and stainless steel Hasteloy HC-4, hose connection PP ¾", 2,5 m PVC-fabric hose ¾", PP nozzle, PP drum adapter.

- ① **Drum pump:** Motor 230 V, pump hose made of PVDF and stainless steel Hasteloy C HC-4, hose connection PTFE 1¼"
- ② **Pumpset** consisting of: Motor 230 V, pump tube made of PVDF and stainless steel Hasteloy HC-4, hose connection PP ¾", 2,5 m special chemical hose ¾", PVDF nozzle, PP drum adapter.

► Delivery height 19 mWS, pump capacity 85 l/min

► Delivery height 17 mWS, pump capacity 80 l/min

Type	Immersion tube dia. mm	Immersion depth mm	Price/ Unit	Article No.
① Drum pump	41	1000	894,70	5762-0010 N2
① Drum pump	41	1200	945,90	5762-0012 N2
② Pump set	41	1000	1085,00	5762-0100 N2
② Pump set	41	1200	1097,20	5762-0101 N2

Type	Immersion tube dia. mm	Immersion depth mm	Price/ Unit	Article No.
① Drum pump	41	1000	1467,80	5762-0020 N2
① Drum pump	41	1200	1518,95	5762-0021 N2
② Pump set	41	1000	2042,00	5762-0200 N2
② Pump set	41	1200	2144,40	5762-0201 N2

## Drum pump | for mineral oils



For light viscous mineral oil products, such as diesel, fuel oil, hydraulic fluid, machinery and motor oil, etc.

- ① **Drum pump:** Motor 230V, aluminium pump tube, aluminium hose connection 1¼"
  - ② **Pump set** consisting of: Motor 230V, aluminium pump tube, aluminum hose connection 1", 2.5 m PVC-fabric hose 1", 2 x hose clips 1", aluminum nozzle, brass hose connection 1", PP drum adapter.
- Parts coming in contact with medium made of aluminum and 316Ti (1.4571), delivery height 19 mWS, pump capacity 85 l/min

Type	Immersion tube dia. mm	Immersion depth mm	Price/ Unit	Article No.
① <b>Drum pump</b>	41	1000	843,50	5763-0010 N2
② <b>Pump set</b>	41	1000	1181,45	5763-0100 N2

## Drum pump | for solvents



For highly flammable hydrocarbons such as ethanol, benzene, butanol, isopropanol, kerosene, methanol, etc.

- ① **Drum pump:** Motor 230V, pump mechanism made of stainless steel, potential compensation cable, hose connection 1¼"
  - ② **Pump set:** Motor 230V, pump mechanism made of stainless steel, potential compensation cable, 2 x hose connections Ms 1", 2.5 m solvent hose 1", brass filling nozzle, PP drum adapter.
- Delivery height 14 m WC, pump capacity 95 l/min

Type	Immersion tube dia. mm	Immersion depth mm	Price/ Unit	Article No.
① <b>Drum pump</b>	41	1000	1845,00	5763-0300 N2
② <b>Pump set</b>	41	1000	2340,20	5763-0301 N2

## Lever pump



Lever pump with hand operated swivel lever and 360° rotatable immersion tube which enables bottles or graduated beakers to be placed on the barrel under the feeding tube.

- ▶ Pump capacity approx 350 ml per stroke
- ▶ Liquids with viscosities up to 2200 mPas can be pumped (not suitable for oil)
- ▶ Can be installed in 2" internal thread
- ▶ Suction tube maximum length 95 cm with stepless extension

Suitable thread adapters on page 45

Please pay attention to the "List of Chemical Resistance"! – [www.burkle.de](http://www.burkle.de)

Lever pump		
Price/Unit	Price/Unit of (X) units	Article No.
43,7022,80	(10) 39,30	5613-0011 N2

## Piston pump



The piston pump is made of polypropylene and polyethylene, for aqueous and petrochemical products. It offers a good price/performance ratio. The piston pump is attached to the container with a 2" or 3/4" internal thread connection. After mounting it can still be rotated about its axis so that containers can be placed on the drum lid and filled.

- ▶ Pump capacity 450 ml per stroke
- ▶ For containers with R2" and 3/4" inner thread
- ▶ Immersion tube length 840 mm

Please pay attention to the "List of Chemical Resistance"! – [www.burkle.de](http://www.burkle.de)

Piston pump		
Price/Unit	Price/Unit of (X) units	Article No.
39,20	(10) 35,25	5613-0030 N2

## Battery pump



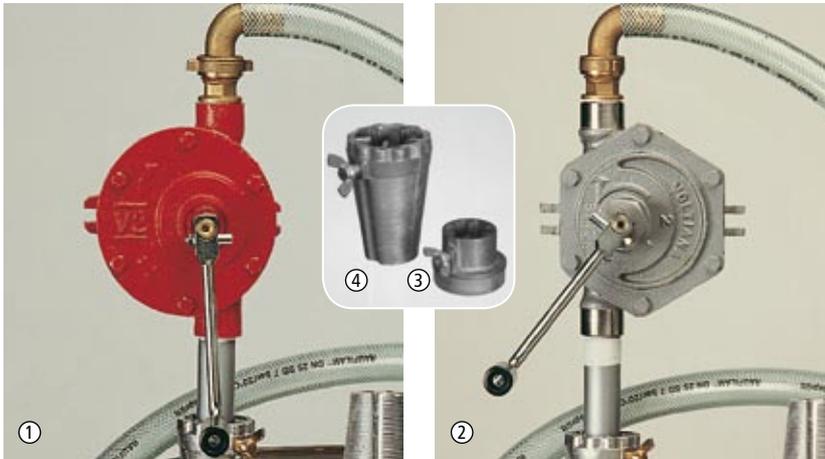
Handpump for safe filling of car batteries with acid or distilled water.

- ▶ With hose reflux valve
- ▶ No overfilling of battery
- ▶ For 40 – 70 mm diameter openings

Wear protective clothing. See page 50 to 52.

Battery pump			
Operation	Price/Unit	Price/Unit of (X) units	Article No.
Hand operation	71,75	(10) 64,50	5005-7000 N4
Foot operation	87,35	(10) 76,95	5000-6000 N4

## Rotary piston pump



Multiple uses: can be used directly between hose connections and also as a barrel pump with a rigid discharge tube or a flexible discharge hose. The rotary piston pump can pump in both directions by rotating backwards and forwards.

- ▶ In cast iron for self-lubricating substances or stainless steel and PTFE
- ▶ Viscosity up to max. 150 cst ISO/11,5° Engler/40 SAE at + 20 °C
- ▶ A tube set comprising of 1.5 mm PVC tube, connection fittings and filler pipe is available as an accessory.

## Hand-operated lever pump



for petrochemical substances, made of stable, silver colored aluminum cast, the valves and the piston are made of plastic (PA).

- ▶ Fits M64 x 4 or R2" barrel thread
- ▶ With closure device
- ▶ delivered with hose kit, hose length 1.5 m, electrically conductive, with outlet elbow and bend protection spring

### Rotary piston pump with standard suction tube 100 cm

Capacity ca. l/min	Housing made of	Rips made of	Pumping height (water column) m	Thread connection	Price/Unit	Article No.
① 30	cast iron	bronze	8	3/4"	156,00	5626-1030 N2
① 40	cast iron	Bronze	7,5	1"	197,60	5626-1040 N2
② 40	AISI 304	PTFE	7	1"	1002,55	5626-2040 N2

### Accessories

<b>Discharge tube</b> , fits to 5626-1030		27,85	5626-0020 N2
<b>PVC discharge hose</b> 1,5 m 3/4" for 5626-1030		19,85	5626-0031 N2
<b>PVC discharge hose</b> 1,5 m 1" for 5626-1040 and 5626-2040		26,30	5626-0030 N2
③ <b>Thread connection</b> 3/4" fits to 5626-1030		13,95	5626-0110 N2
④ <b>Thread connection</b> 1" fits to 5626-1040 and 5626-2040		15,70	5626-0121 N2
Angled 3/4" thread connection for 5626-1030		10,40	5626-0132 N2
Angled 1" thread connection for 5626-1040 and 5626-2040		12,70	5626-0133 N2

### Hand operated lever pump with standard suction hose 100 cm

Capac. ca. l/min	Housing made of	wc/m height	Thread connection	Price/Unit	Article No.
25	AL cast	1	M64x4, R2"	135,20	5627-1000 N2



**Anti-static set** (see description on page 23) 39,10 5602-1000 N4

## Electric barrel pump Petro | for Diesel oil, class D/II fuel oil



### Petro 40

Electric barrel pump for pumping Diesel oil, class D/II fuel oil and other flammable liquids of VbF Hazard Class AIII. The built-in siphon protection prevents leaks if the tube is faulty. Available for 230V power supply. Available with either standard filling nozzle or filling nozzle with automatic shut-off.

Optionally with electronic volume readout with cumulative total; suitable for calibration (supplied uncalibrated).

**Caution! Can't be used with anti-freeze!**

- ▶ Max. capacity 40 l/min
- ▶ With manual suction pump
- ▶ VDE-tested, motor with thermal protection switch
- ▶ Drum threads M 64 x 4 and 2"
- ▶ Suction tube 1.60 m long with filter
- ▶ Perbunan delivery hose 4 m long, with anti-kink spring and standard filling nozzle.



### Petro 40

Filling nozzle	Volume readout	Voltage	Price/Unit	Article No.
Automatic	no	230	326,55	5780-0041 N2
Standard	no	230	222,55	5780-0040 N2

### Accessories

Volume readout single			256,90	5780-0020 N2
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## Oil-free double-diaphragm pump



Oil-free Double-diaphragm pumps operated by compressed air offer the solution for transferring viscous, corrosive, abrasive and flammable liquids. Pump version 1/4" (larger pumps available on request). Pump versions made of polypropylene (PP), PVDF and PA are available.

Diaphragms, valves and valve seats made of Geolast, PTFE and Santoprene are available. Solids up to 1.6 mm dia. can be transported.

- ▶ Max. delivery rate 16 l/min
- ▶ Suction head (dry) 6 m
- ▶ Operating pressure: min. 1.4 bar, max. 6.8 bar
- ▶ Suction/pressure connections: 1/4" BSP IG

### Oil-free Double-diaphragm pump

Description	Price/Unit	Article No.
for water-based liquids, lubricants, mineral oil. PP housing, Geolast diaphragm.	321,80	5766-0001 N2
for corrosive liquids, inorganic acids and alkalis, electroplating bath liquids. PP housing, PTFE diaphragm.	463,85	5765-0002 N2
for water-based liquids, sodium hydroxide solution, milk of lime. PP housing, Santoprene diaphragm.	342,15	5765-0003 N2
for strong acids and alkalis, increased temperatures. PVDF housing, PTFE diaphragm.	463,85	5765-0004 N2

## Magnetic centrifugal pump | packless liquid transfer



① Magnetic centrifugal pump 15 W



② Magnetic centrifugal pump 29 W

The new magnetic centrifugal pumps are suitable for transferring acids, alkalis, solvents, alkaline and electroplating baths, photography chemicals as well radioactive, sterile and highly corrosive liquids. They are packless. The drive via contact-free magnetic force transfer requires no dynamic shaft seals and this makes a hermetically sealed pump housing possible, which means that it cannot leak. By using efficient permanent magnets large transfer forces are guaranteed, even at higher temperatures. The pumps are corrosion-resistant. The Rulon bearings are even suitable for hypochlorite solutions, bromine and chromium compounds.

- ▶ Pump capacity 24 l/min
- ▶ Delivery head up to 8 m
- ▶ Viscosity max. 20 mPas
- ▶ Pump complete with flanged-on AC motor
- ▶ Not self-priming

- ① **Magnetic centrifugal pump 15W**, Motor 230V, material PP (fiberglass reinforced), stainless steel, Rulon, Viton (seal), tubing nozzle 14 mm
- ② **Magnetic centrifugal pump 29W**, Motor 230V, material PP (fiberglass reinforced), stainless steel, Rulon, Viton (seal), ceramics (shaft), suction connection G 3/4" AG (BSP), pressure connection G 3/4" AG (BSP)

### Magnetic centrifugal pump

Performance, thread connection	Price/Unit	Article No.
① 15 Watt, no thread connection	321,80	5766-0001 N2
② 29 Watt, 3/4" outer thread	332,80	5766-0002 N2

## Why not take a vacation in the south ... free of charge!



**Give yourself a treat** in an extremely comfortable house in the Feuerbach valley near Kandern. In the middle of the idyllically located village of you will find, in the old town hall, the guest house of Bürkle GmbH: peace and quiet and fresh air.



**Travel alone, as a pair or with your children.**

As a winner of our monthly draw, you can enjoy our guest house free of charge for one week. **It's easy to be the winner** – just take part in Edison (see pages 25 and 154), in Click or send us a filled-in product pass, which you will find with many of our products.



... in the sunny Markgräflerland, **Germany's Tuscany**, where the sun shines longest and warm winds waft through the "Gateway to Burgundy" into our vineyards to produce the excellent wines.

In the three-country triangle between the Rhine curve near Basle, peaceful Alsace, the green fir trees of the Black Forest and the gentle vineyard slopes of South Baden **life is very enjoyable**.

**Enjoy**, for example, the thermal baths in Badenweiler, Bad Bellingen, Bad Krozingen or the gourmet cuisine of the top chefs in South Baden. Discover the old city center in Basle, the "most beautiful minster in the whole Christian world" in Freiburg, the half-timbered houses of medieval Colmar. Enjoy an evening snack of smoked ham from the Black Forest or succumb to the temptation of a Black Forest cherry gateau.



**Taking part is well worth your while!**

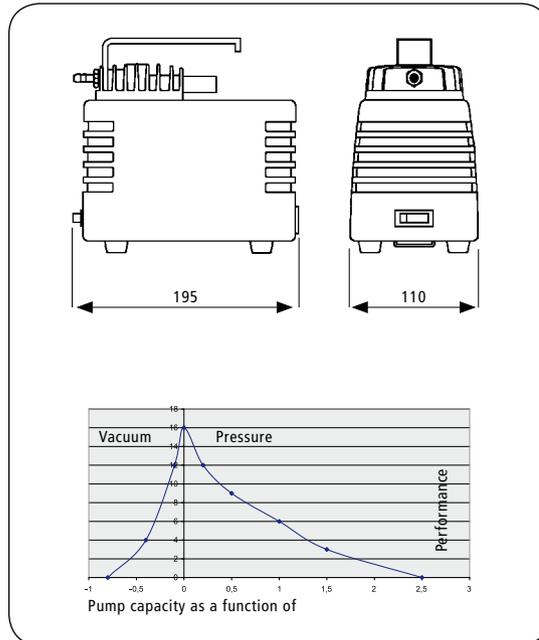
With a little bit of luck you could also be one of the winners – good luck, we are keeping our fingers crossed for you – and, of course, you will find a bottle of Ziereisen wine in the guest house – personally reserved for you. [www.buerkle.de](http://www.buerkle.de) > News > Monthly draw

# Membrane vacuum pump/compressor | for air, gases and vapors (100 % oil-free air)



- ▶ Compact construction
- ▶ Viton membrane
- ▶ Compressor head made of pressure cast zinc
- ▶ Can be mounted in any position
- ▶ Maintenance-free
- ▶ 230 V, 25 W, protection code IP21
- ▶ Pump capacity 16 l/min
- ▶ Ultimate vacuum 75 – 80 %
- ▶ Max. working pressure 2.5 bar
- ▶ Hose nozzle for 5 – 7 mm i.d. hose
- ▶ Weight 3120 g
- ▶ Length 195, width 110, height 180 mm
- ▶ With carrying handle

1-head dry-running membrane pump for versatile use in laboratories, industry and science wherever media have to be transferred unaltered, or compressed, or evacuated.  
 Suitable for slightly aggressive or corrosive gases and vapors (check the chemical resistance of parts coming into contact with the medium).  
 The Viton membrane transfers 100 % oil-free, which guarantees that the medium is not contaminated.



"We have been using your vacuum pump for many years now for the indirect transfer of an aggressive and corrosive pharmaceutical preparation. It has proved to be very reliable and is ideally suitable for continuous operation. This indirect transfer under vacuum is a good solution for small series of products that must not come into contact with metals."

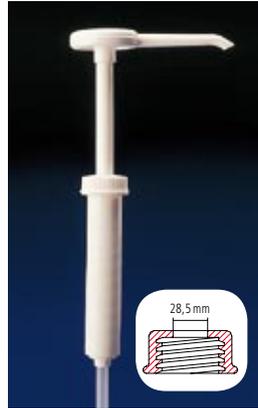
Günter Weber, Production Manager, Dettenhausen

Vakuum pump/compressor	Price/Unit	Article No.
	259,00	5625-1000 N2

# Dosi-Pump, handpumps | ecologically safe, re-usable



**Dosi Pump 1**  
Standard-dosing approx.  
4 ml/stroke.



**Dosi Pump 2**  
Standard-dosing approx.  
30 ml/stroke.



**Dosi Pump 3**  
Standard-dosing approx.  
30 ml/stroke.  
The feeding tube is fixed.



**Dosi Pump 4**  
Standard-dosing approx.  
100 ml/stroke.



**Dosi Pump 5**  
Standard-dosing approx.  
250 ml/stroke.

Dosage pumps for the controlled, environmentally protective and cost-conscious withdrawal of media from canisters, bottles, barrels and bulbs. Dosi-pump is inserted into your container closure.

- ▶ Parts in contact with the contents are PP, PE, stainless steel
- ▶ Suitable for liquid contents of various viscosities
- ▶ Custom fitting to your lid/cap available (minimum 100 pieces – please send us a sample)

High-precision dosing devices 0.5 to 50 ml see page 180

## Dosi-Pump, handpumps

Type	Drill hole at least dia. mm	Stroke approx. ml	Immersion depth mm	Price/ Unit	Price/Unit of (X) units	Article No.
Dosi-Pump 1	21	4	200	6,15	(100) 3,90	5607-1004 N3
Dosi-Pump 2	28,5	30	280	10,30	(100) 7,80	5607-2030 N3
Dosi-Pump 3	22,5	30	355	17,60	(100) 13,00	5607-3030 N3
Dosi-Pump 4	28,5	100	280	44,50	(100) 31,95	5607-4100 N3
Dosi-Pump 5	28,5	250	280	70,70	(100) 64,50	5607-5250 N3



## Siphon | for occasional drawing off of liquids



- ▶ Good view of medium through transparent hoses
- ▶ Bend protection with attachment eye
- ▶ With stopcock
- ▶ Inexpensive emptying devices

**!** Siphon not for filling strong acids and caustic solutions. Use PP barrel pumps for this. Wear protective clothing, see page 50 to 52.

Easy-to-use devices for the rapid transfer of liquids from a higher container to a lower one. Functions according to the siphoning principle – liquids need only to be primed once.

Made of LDPE/PVC with delivery rate of 9 l/min. With robust PP ball valve.

### Siphon

Material	Immers. depth mm	Tube dia.	Pump capacity l/min	Price/Unit	Price/Unit of (X) units	Article No.
LDPE/PVC	100 cm	15	ca. 9	<b>37,45</b>	(10) 34,00	5605-1000 N4



### Why don't you join in?

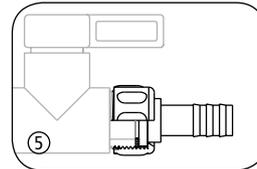
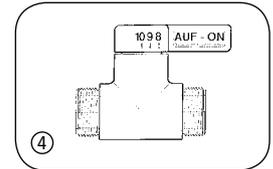
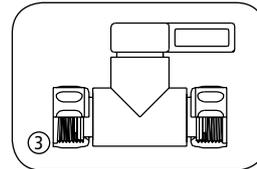
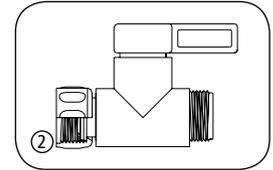
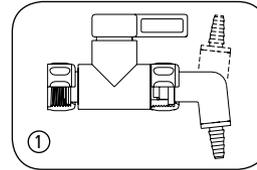
Just photograph Bürkle products in practical use.

See [www.buerkle.de](http://www.buerkle.de) > News > Monthly draw

# Stopcocks for bottles | completely water-tight, easily operated



The rotatable spout prevents dripping of residual liquid. The tapered spout makes discharge possible into narrow openings.



Different StopCock models. Connection thread  $\frac{3}{4}$ " with union nut or external thread.

LaboPlast StopCock Spigots fit all containers with base connection thread offered in this catalogue. Using thread adapters, almost all commercial containers can be connected.

- ▶ Absolutely water-tight
- ▶ Easy and smooth movement
- ▶ Guaranteed vertical position of spigot with connecting union nut
- ▶ With tapered spout for bottles with narrow openings from 6 to 8 mm dia.
- ▶ Dosing scale for reproducible flowthrough
- ▶ With rotatable spout, preventing drips
- ▶ Standardized connection thread fits screw threads with R  $\frac{3}{4}$ "
- ▶ Pressure-proof to 2 bar at 20 °C without discharge angle
- ▶ Gaskets made of PTFE and PE
- ▶ Parts in contact with media made of PP, PE and PTFE

You can find appropriate thread adapters with which you can connect StopCock to most commercially available container threads on page 44.

## LaboPlast stopcocks angled



Inflow	Outflow	Price/Unit of (X) units	Price/Unit	Article No.
① $\frac{3}{4}$ " inner thread cap nut	spout/nozzle	17,35	19,35	0525-1000 N4

## LaboPlast stopcocks straight-through

② $\frac{3}{4}$ " inner thread cap nut	$\frac{3}{4}$ " outer thread	16,95	18,80	0525-5000 N4
③ $\frac{3}{4}$ " inner thread cap nut	$\frac{3}{4}$ " inner thread cap nut	20,30	22,25	0525-7000 N4
④ $\frac{3}{4}$ " outer thread	$\frac{3}{4}$ " inner thread cap nut	18,95	20,90	0525-3000 N4

## Hose nozzles for LaboPlast stopcocks with outer thread

	Price/Unit	Article No.
⑤ Hose nozzle 4 mm	8,10	0525-1304 N4
Hose nozzle 6 mm	8,10	0525-1306 N4
Hose nozzle 8 mm	8,10	0525-1308 N4
Hose nozzle 10 mm	8,10	0525-1310 N4
Hose nozzle 12 mm	8,10	0525-1312 N4
Hose nozzle 16 mm	8,10	0525-1316 N4
Spout with nozzle	6,95	0525-1400 N4

## Ball valve PP



Fits all Bürkle containers with  $\frac{3}{4}$ " bottom connection thread.  
Very stable industrial quality, high throughflow volume.

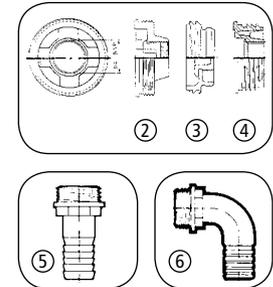
- ▶ Suitable for crystallizing media
- ▶ Suitable up to 4 bar pressure at 20 °C
- ▶ Feed with  $\frac{3}{4}$ " breechlock nut for vertical mounting on containers
- ▶ Incl. discharge angle
- ▶ Tube sleeve 16 mm diameter
- ▶ Attachable to almost all containers with thread adapter
- ▶ Nominal width 12 mm diameter

### Ball valve PP with discharge angle

Price/Unit	Price/Unit of (X) units	Article No.
43,60	(5) 40,05	0500-0100 N4



## Ball valves for barrels | leakproof, adaptable



Ball valves for barrels, made of PP, with thread connection for barrels which are lying on their sides.

**Accessory valve inlet thread adapter:** Thread adapter for the most common barrel threads,  $\frac{1}{2}$ " ,  $\frac{3}{4}$ " or 1" tube threads, 2" fine threads, Mauser-2" or Tri-Sure®-2" coarse thread.

**Accessory valve outlet nozzles:** hose nozzle, straight or with a 90° bend, threaded nipples with external thread.

Connection thread requires sealing tape (see p. 44) for tight seal.

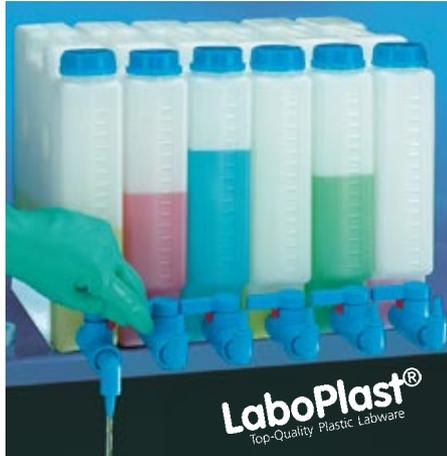
### 1 Ball valves for barrels, PP

Thread, inflowing side	Thread, outflowing side	NW mm	Price/Unit	Price/Unit of (X) units	Article No.
$\frac{1}{2}$ " outside	$\frac{1}{2}$ " inside	15	34,00	(10) 30,80	0500-0112 N4
$\frac{3}{4}$ " outside	$\frac{3}{4}$ " inside	20	39,20	(10) 35,35	0500-0134 N4
$\frac{1}{2}$ " inside	$\frac{1}{2}$ " inside	15	30,35	(5) 27,25	0500-8002 N3
$\frac{3}{4}$ " inside	$\frac{3}{4}$ " inside	20	34,65	(5) 31,10	0500-8003 N3
1" inside	1" inside	25	42,20	(5) 38,05	0500-8001 N3

### 2 Thread adapter fit to

2 Fine thread 2"	0500-0134	5,72	(10) 5,15	0600-0180 N3
3 Coarse thread Mauser 2"	0500-0134	2,91	(10) 2,58	0600-0130 N3
4 Coarse thread Tri-Sure® 2"	0500-0134	1,56	(10) 1,44	0600-0140 N3
5 Hose nozzle, straight	$\frac{1}{2}$ "	0,98	(20) 0,88	8545-0012 N3
5 Hose nozzle, straight	$\frac{3}{4}$ "	1,11	(20) 1,00	8545-0034 N3
5 Hose nozzle, straight	1"	1,36	(10) 1,25	8545-0100 N3
6 Hose nozzle, 90°	$\frac{1}{2}$ "	1,65	(20) 1,52	8547-0012 N3
6 Hose nozzle, 90°	$\frac{3}{4}$ "	1,70	(20) 1,56	8547-0034 N3
6 Hose nozzle, 90°	1"	2,42	(10) 2,19	8547-0100 N3
6 PTFE sealing tape, 12 m long		1,31	(10) 1,19	0006-4514 N3

## Flachmann, the compact canister Spigot "Air"



- ▶ With or without threaded connector  $\frac{3}{4}$ "
- ▶ Transparent PP
- ▶ Autoclavable without stopcock
- ▶ Moulded graduation
- ▶ Canister support made of aluminium for safe stand – see page 171
- ▶ Stopcock as accessory – see page 40

More jerrycans and canisters can be found on pages 168 to 173

Flachmann without threaded connector, with tamper-proof closure

Cap. ltr.	W mm	D mm	H mm	Opening dia. mm	Price/Unit	Price/Unit of (X) units	Article No.
5,0	65	335	335	41	24,25	(10) 21,85	0435-1050 N4

Flachmann with threaded connector, just above base

5,0	65	335	335	41	25,90	(10) 23,20	0435-2050 N4
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Self-venting, in PE, transparent,  $\frac{3}{4}$ " outer thread connection.

- ▶ Self-venting
- ▶ Nominal width 13 mm
- ▶ Natural rubber seal

Spigot "Air", PE self-venting

Price/Unit	Price/Unit of (X) units	Article No.
5,30	(25) 4,84	0533-0010 N3

## Spigot "Brass"



For petrochemical liquids, self-sealing.  $\frac{3}{4}$ " outer thread connection.

- ▶ Nominal width 10 mm

Spigot "Brass"

Price/Unit	Price/Unit of (X) units	Article No.
32,65	(25) 29,45	0535-0010 N3

## Barrel valve



The barrel valve lets you empty even highly viscous liquids quickly and cleanly. It is suitable for metal barrels with a 2" BSP Tri-Sure® thread (see drawing). The barrel valve can also be mounted on tilted barrels.

- ▶ Can also be used for filling barrels
- ▶ Parts to get in contact with the media are made of PP

### Application

1. Mount the barrel valve on the spigot cap.
2. Open the spigot hole by turning the handgrip.
3. Empty the liquid.

Barrel valve PP		
Price/Unit	Article No.	
112,30	0536-0010 N3	

## Spigot Jumbo | with extra-wide tubing, for R2" barrel threads



With large, 50 mm wide tubing, for highly viscous substances, glues, varnishes etc., in transparent PE, 2" outer thread connection.

- ▶ White PE with spindle
- ▶ Seal made of black nitril

Spigot "Jumbo", PE white		
Price/Unit	Price/Unit of (X) units	Article No.
75,90	(5) 68,65	0534-0010 N3



With large, 50 mm wide tubing, for highly viscous substances, glues, varnishes etc., in transparent PE, 2" outer thread connection.

- ▶ Brown PE, low-cost tap

Spigot "Jumbo", PE brown		
Price/Unit	Price/Unit of (X) units	Article No.
23,20	(10) 22,70	0534-0020 N3

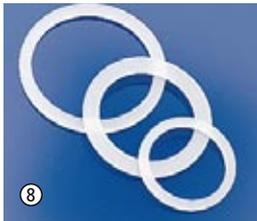
## Accessories | in PE and PA



**Sealing tape for threads**  
made of PTFE, excellent sealing quality, good chemical resistance, 12 mm wide, 12 m long.



**Hexagonal nuts**  
made of white PE, to lock the barrel cocks in place. For 3/4" and 2" thread.



**Flat seal**  
made of soft PE, for spigots with 3/4" and 2".

## Thread adapter LaboPlast



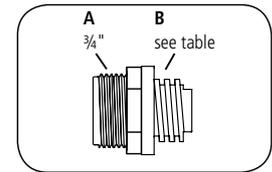
### ① – ⑦ Thread adapters

The StopCock discharge taps and other accessories can be connected to most containers using these thread adapters.

All adapters have an R 3/4" standard outer thread.

### ⑧ Closure caps

The closure caps are required to close the thread connections.



**Thread side A** 3/4" external thread, fits the Bürkle discharge cocks 0525-1000, 0525-5000, 0525-7000 and 0500-0100 and thread fittings with 3/4" inner thread.

**Thread side B** Fits a great range of different manufacturer-specific container threads (see table below).

Accessories for spigots			
	Price/Unit	Price/Unit of (X) units	Article No.
⑥ PTFE thread sealing tape	1,31	(10) 1,19	0006-4514 N3
⑦ PE hexagonal nut 3/4"	1,93	(10) 1,76	8537-0034 N3
PE hexagonal nut 2"	3,17	(10) 2,86	8537-0200 N3
Seals			
	Price/Pack	Price/Pack of (X) packs	Article No.
⑧ PE flat seal 3/4" pack of 10 pcs.	2,10	(10) 2,05	8538-0034 N3
Flat seal 2", pack of 10 pcs.	10,20	(10) 9,15	8538-0200 N3

Thread adapter set consisting of thread adapter no. 0501-1, -2, -15 and hexagonal spanner 0501-10						
Description	Color	Material	Price/Unit	Price/Unit of (X) units	Article No.	
Thread adapter set, completely			14,35	(10) 13,20	0600-0050 N4	
Single thread adapters						
	thread A	thread B				
① 3/4"	Hünersdorff		red	PP	4,17	(10) 3,74 0600-0010 N4
② 3/4"	Kautex		blue	PP	4,17	(10) 3,74 0600-0020 N4
③ 3/4"	cylindr. R 3/4" barrel thread		black	PP	4,17	(10) 3,74 0600-0150 N4
④ 3/4"	conical R 3/4" barrel thread		green	PP	4,17	(10) 3,74 0600-0030 N4
⑤ 3/4"	coarse thread, Tri-Sure® 2"		green/white	PP/PE	9,90	(10) 9,15 0600-0094 N4
⑥ 3/4"	coarse thread, Mauser 2"		green/white	PP/PE	9,90	(10) 9,15 0600-0120 N4
⑦ 3/4"	fine thread 2"		green/white	PP/PE	9,90	(10) 9,15 0600-0190 N4
⑧ –	sealing cap 3/4" inner thread		gray	PVC	4,17	(10) 3,74 0600-0090 N4
⑨ –	hex spanner for thread adapter		blue	PP	2,01	(10) 1,81 0600-0001 N4

# Thread adapters



Here we offer you a wide range of different thread adapters. These allow the canister pump Pump-it (page 17), the discharge valve StopCock (page 40) or the barrel pump screw joints (page 19 and 22) to be safely fixed to most containers.

Die gängigsten Adapter haben wir für Sie zu einem Set zusammengestellt. Durch die Kombination verschiedener Adapter finden Sie für Ihre Anwendung stets die richtige Verbindung.

If you have any questions about choosing the correct thread adapter just give us a call.

We would be pleased to help you.

## Thread adapters

	outer	outer	inner	inner	Color	Material	Price/ Unit	Price/Unit of (X) units	Article No.
<b>Adapter outer/inner</b>									
①		Tri-Sure®	2" BSP		orange	PP	12,80	(10) <b>11,45</b>	0600-1006 N4
②		Mauser	2" BSP		blue	PP	12,80	(10) <b>11,65</b>	0600-1010 N4
③		Tri-Sure®	Mauser		red	PP	12,80	(10) <b>11,45</b>	0600-1011 N4
④		Mauser	Tri-Sure®		bordeaux	PP	12,80	(10) <b>11,45</b>	0600-1012 N4
⑤		US barrel	2" BSP		silver	PP	12,80	(10) <b>11,45</b>	0600-1007 N4
⑥		61 mm	2" BSP		gray	PP	12,80	(10) <b>11,45</b>	0600-1008 N4
⑦		61 mm	3" grob		natural	PP	18,40	(10) <b>17,05</b>	0600-1009 N4
⑧		64 mm (BSI)	DIN 60		black	PP	14,25	(10) <b>13,00</b>	0600-1014 N4
⑨		64 mm (BSI)	DIN 51		black	PP	16,35	(10) <b>14,65</b>	0600-1016 N4
⑩		64 mm (BSI)	DIN 61		yellow/blue	PP	16,35	(10) <b>14,65</b>	0600-1013 N4
⑪		64 mm (BSI)	DIN 71		brown/blue	PP	16,35	(10) <b>14,65</b>	0600-1001 N4
<b>Adapter inner/inner</b>									
⑫		double-thread, 35 mm		2" BSP	black	PP	15,50	(10) <b>14,15</b>	0600-2004 N4
		also for tin-foil canisters with pull-out spout							
⑬			51 mm	2" BSP	green	PP	15,50	(10) <b>14,15</b>	0600-2005 N4
⑭			61 mm	2" BSP	yellow	PP	7,80	(5) <b>7,45</b>	0600-2001 N4
⑮			64 mm	2" BSP	white	PP	15,50	(10) <b>14,15</b>	0600-2006 N4
⑯			71 mm	2" BSP	brown	PP	13,10	(10) <b>11,45</b>	0600-2002 N4
<b>Adapter outer/outer</b>									
⑰	61 mm	Tri-sure®			yellow/black	PP	7,40	(10) <b>6,15</b>	0600-3006 N4
⑱	61 mm	2" BSP			black	PP	7,40	(10) <b>6,15</b>	0600-3007 N4
⑲	2" coarse M.	64 mm (BSI)			green	PP	9,80	(10) <b>8,95</b>	0600-3004 N4
⑳	2" coarse Tri-Sure®	/ 64 mm (BSI)			brown	PP	9,80	(10) <b>8,95</b>	0600-3002 N4
㉑	2" BSP	64 mm (BSI)			blue	PP	9,80	(10) <b>8,95</b>	0600-3003 N4
㉒	Adapter set, consisting of 1, 2, 14 and 16						42,10	(5) <b>38,90</b>	0600-3010 N4

EDELSTAHL®  
**Rost  
 frei**  
 STAINLESS STEEL



- ▶ Self-priming
- ▶ Version for left handed users available on request
- ▶ Exact filling and dosage of all kinds of liquids
- ▶ Dosage accuracy < 1 %
- ▶ Adjustable filling table made of stainless steel with centering device
- ▶ Handwheel and display for precise, stepless adjustment of dosage volume
- ▶ Large containers filled by several strokes
- ▶ Up to 500 fillings per hour
- ▶ 4 sizes for filling volumes from 5 to 1020 ml

## DosiFüll liquid transfer pump | for liquids, ideal for small filling batches

DosiFüll has been specially developed for the exact filling and dosage of all kinds of liquids. DosiFüll is particularly interesting for small production batches for which the purchase of a stationary filling station would be a poor return on investment.

**Equipment:** DosiFüll is available in three different versions:

- ▶ Manual operation
- ▶ Pneumatic foot switch
- ▶ Pneumatic control (on request)

The pneumatic versions are particularly suitable for viscous media. Manually operated instruments can be retrofitted with a pneumatic foot switch or pneumatic control. The pneumatic apparatus requires a 6 bar compressed air supply.

**Areas of application:** cosmetic, pharmaceutical and chemical products, paints, lacquers, foodstuffs and beverages.

**Operation:** DosiFüll fills the medium directly from the original container. The hand lever moves a pressure/suction piston which draws in the medium and then ejects it in exactly metered amounts. The dosage can be adjusted accurately and steplessly with a handwheel without the use of tools; the amount can be read off from a display.

**Maintenance:** DosiFüll is easily dismantled, easy to clean and the maintenance-free drive requires no lubrication.

**Dimensions:** L 600 mm x B 150 mm x H 250 mm

**Materials:** parts coming into contact with the medium are made of stainless steel 316L (1.4404). Seals are made of Teflon® and Viton®. The housing is made of steel and cast aluminum.

**Various filling nozzles** allow the individual filling of a wide range of containers such as bottles, tubes, tubs, crucibles, jars, etc. For filling nozzle diameters above 12 mm a filling nozzle with sieve is essential (Art. No. 5910-0002).

**Special equipment:**

- ▶ Adjustable stainless steel filling table
- ▶ Liquid funnel with attachments
- ▶ Pneumatic drip preventer for high-viscosity products, diameter 15 mm.

When ordering, please state the material to be filled. We will test the chemical resistance.

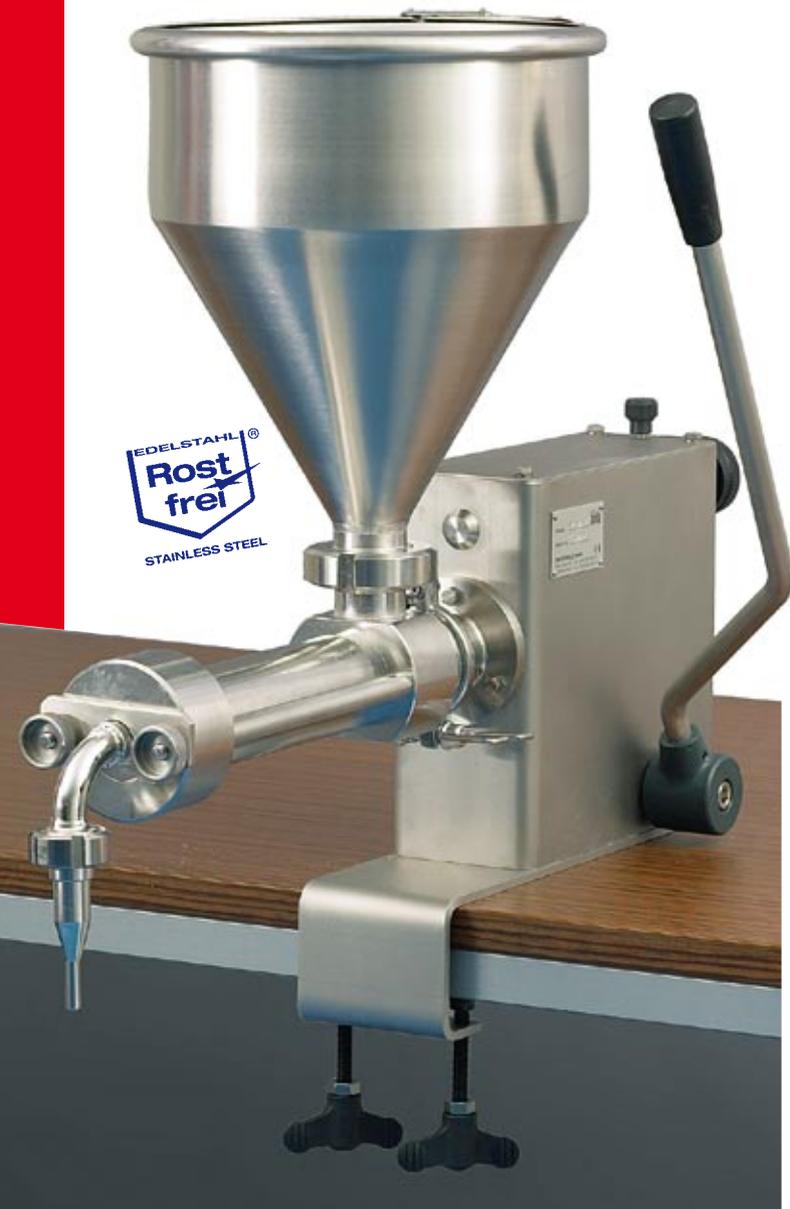
Viscosity of liquids: for information see page 28

DosiFüll for liquids, manually operated			
Dosage volume from – to ml	Standard filling nozzle dia. mm	Price/Unit	Article No.
5 to 55	6	2798,65	5910-0020 N2
20 to 210	8	3025,35	5910-0210 N2
50 to 550	10	3176,15	5910-0550 N2
50 to 1020	10	3659,75	5910-1000 N2
DosiFüll for liquids, pneumatic, volumetric foot operation			
5 to 55	6	4520,90	5910-0021 N2
20 to 210	8	4520,90	5910-2110 N2
50 to 550	10	4725,75	5910-0551 N2
50 to 1020	10	5220,80	5910-1011 N2

Accessories		
	Price/Unit	Article No.
Feeding tube without sieve, available sizes: 6, 8, 10, 12, 14, 16 and 18 mm outside diameter <sup>1</sup>	111,30	5910-0001 N2
Feeding tube with sieve, available sizes: 10, 12, 14, 16 and 18 mm outside diameter <sup>1</sup>	155,80	5910-0002 N2
Feeding tube with mechanical drip-preventer	716,00	5910-1117 N2
Filling table	447,35	5910-1115 N2
adjustable height with centering device		
Centering device for bottleneck	340,50	5910-1116 N2
Pneumatic control for pneumatic-operated equipment.	5554,65	5910-1118 N2
Surcharge for later upgrade		
Teflon sealing set (surcharge)	571,80	5910-9922 N2

<sup>1</sup> Please always indicate the desired size when ordering filling tubes.

DosiPast hand filling device | for pasty media such as creams, salves, emulsions, from 5 to 550 ml



- ① Variable filling table with centering device
- ② Handwheel and counter display
- ③ The filling tubes can be exchanged easily

### DosiPast – ideal for small filling series

Specially developed for manually filling off highly viscous products such as creams, salves, emulsions, shampoos, etc.

**Fields of use:** Cosmetics industry, chemotechnical industry, dispensaries, drugs, food industry, adhesives and for filling off honey.

**DosiPast** is always suitable when the acquisition of an expensive filling machine usually intended for large series is not worth while. The manually operated device is simple to use, works economically and with high filling accuracy.

**How it works:** DosiPast can be quickly installed at any workplace and is immediately ready for use. DosiPast is self-priming. The hand lever is used to move a suction/pressure piston which draws in the medium and meters it out accurately.

The filling amount is set precisely and steplessly using a hand wheel – no tools are required – and can be read off from a display. It is easy to dismantle and clean. This makes rapid medium change possible.

## DosiPast hand filling device | for pasty media

Suitable for both left-handers and right-handers, as hand lever can be repositioned.

**Versions:** DosiPast is available in two sizes for filling volumes from 5 ml to 550 ml. Metering accuracy is  $\pm 1\%$ . Filling nozzles from 6 mm to 18 mm dia. are available; standard nozzle is 10 mm dia. Filling funnels with 15 l and 30 l capacity.

**Materials:** Parts coming into contact with the medium are made of AISI 316 stainless steel (1.4404). Seals are Teflon® and Viton®.

### Special versions

- ▶ Adjustable stainless steel filling table
- ▶ Nozzles with various diameters
- ▶ Pneumatic drive
- ▶ Pneumatic drop preventer for viscous products, e.g. honey (for use with pneumatic drive) 15 mm dia.

## Wall-mounted dosing machines



Parts in contact with the liquid: glass, PTFE and stainless steel.

**Wall-mounted dosing machines** for simple, clean and precise dosing of liquids, resins, varnishes, peroxides, epoxies, and many other pumpable materials. The equipment is designed for stationary use at a workstation.

### Operation

1. Push pump lever up. The dosage quantity can be read exactly from the glass cylinder's blue scale. Volumes will be dosed by the pump's piston. Dosage volumes set using piston (not fixed).
2. Push the pump lever down, and the liquid is pumped directly into the container, which is to be filled via the discharge hose.

Parts coming in contact with the liquid are made of glass, PTFE and stainless steel. Although the machine is easy to clean, it is suggested that a stationary pump is allotted to every liquid needed regularly. All pumps are prepared for easy mounting on a wall. The machines with 1000 ml dosage cylinders are driven pneumatically (compressed air is necessary). The cylinder is controlled by two buttons – "suck" and "fill". All machines are delivered with a PA suction hose.

### Wall-mounted dosing machines

Material	Operation mode	Dosage vol. ml	Suction tube Ø mm	Smallest grad. ml	Price/Unit	Article No.
Stainl. steel	manual	100	10	1	562,65	5912-0100 N2
Stainl. steel	manual	250	22	5	894,40	5912-0250 N2
Stainl. steel	manual	500	29	5	1100,30	5912-0500 N2

### DosiPast for pasty substances complete with funnel and cover

Dosage vol. from – to ml	Filling cap. funnel l	Filling quant. per hour appr.	Standard filling nozzle dia. mm	Price/Unit	Article No.
5 to 210	15	up to 400	10	4430,40	5911-0200 N2
50 to 550	15	up to 400	10	5490,15	5911-0500 N2

Viscosity of liquids: for information see page 28

Accessories		Price/Unit	Article No.
Feeding tube without sieve, available sizes: 6, 8, 10 and 12 mm outside diameter <sup>1</sup>		<b>111,30</b>	5910-0001 N2
Feeding tube with sieve, available sizes: 10, 12, 14, 16 and 18 mm outside diameter <sup>1</sup>		<b>155,80</b>	5910-0002 N2
Feeding tube with mechanical drip-preventer		<b>716,00</b>	5910-1117 N2
Pneumatic, adjustable foot operation for manually-operated equipment. Surcharge for later upgrade.		<b>1691,00</b>	5910-1110 N2

<sup>1</sup> Please always indicate the desired size when ordering filling tubes.

# Safety goggles | personal protection for the decantation of dangerous substances



**Color safety spectacles – model A**  
Modern design with perfect seat thanks to Softflex side frames adjustable in length and inclination and soft adjustable nose-piece. All-round tight fit. Available in 5 different colors. Complies with EN standard.



**Sport safety goggles – model A**  
Super sporting look. High-quality PC lens to EN standard, unobstructed view. With Softflex side frames.



**Ultralight safety goggles**  
Modern, extremely light protective goggles with additional built-in side and brow shields. Steplessly adjustable side frames for optimal comfort. Complies with EN standard. Suitable for wearers of spectacles.



**Color safety spectacles – model B**  
4 colours, super-light. Unlimited lateral view, the lateral protection is integrated in the plane. Wings adjustable, pane in highly shock-resistant PC. According to DIN 4646/47.



**Casual style safety goggles – model B**  
Extremely light safety goggles with a casual design. For the highest degree of wearing comfort, according to German industrial and EN standards.



**Astrolite safety goggles**  
Lightweight, unlimited lateral sight and sporty design. Variable side-pieces, side-piece length can be set in 3 different lengths, lateral safety shields integrated in the goggle's glass.

**Color safety spectacles – model A**

Frame	Price/Unit	Price/Unit of (X) units	Article No.
black	16,00	(5) 14,45	2502-0023 N3
blue	16,00	(5) 14,45	2502-0025 N3
orange	16,00	(5) 14,45	2502-0024 N3
red	16,00	(5) 14,45	2502-0022 N3

**Color safety spectacles – model B**

yellow/black	15,00	(5) 13,85	2502-1004 N3
blue	15,00	(5) 13,85	2502-1005 N3
silver gray	15,00	(5) 13,85	2502-1010 N3
violet/green	15,00	(5) 13,85	2502-1012 N3

**Sport safety goggles – model A**

Frame	Price/Unit	Price/Unit of (X) units	Article No.
blue	14,45	(5) 12,80	2502-0035 N3

**Sport safety goggles – model B**

black/yellow	21,20	(5) 20,10	2502-2010 N3
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**Ultralight safety goggles**

Frame	Price/Unit	Price/Unit of (X) units	Article No.
black/blue	16,00	(5) 14,45	2502-0041 N3

**Astrolite safety goggles**

black/blue	15,90	(5) 14,35	2502-4000 N3
black/red	15,90	(5) 14,35	2502-4001 N3



**UltraVision safety goggles – model A**  
 Non-fogging lens thanks to indirect ventilation. All-round pressure-free tight fit – greatest protection against liquid penetration. Complies with EN standard. Suitable for wearers of spectacles.



**Visitor protective goggles**  
 Modern over-goggles for wearing over prescription spectacles. Large built-in side and brow shields. Steplessly adjustable side frames.



**Belt bag**  
 Practical belt bag for holding most protective goggles, which are always to hand while still being protected.



**UltraVision safety goggles – model B**  
 Suitable for wearers of glasses, anti-fog goggles. Unrestricted lateral view, 180° field of vision. Excellent for wearers of glasses, closely fitting, no pressure spots. According to DIN 4646/47.



**Panorama safety goggles**  
 Suitable for wearers of glasses, extremely light, panorama-panes with 180° lateral ventilation through the wings. According to DIN 4646/47.



**SafetyBox**  
 For decanting hazardous liquids: panorama safety goggles and protective gloves for personal safety, stored cleanly in a box. Recommended by trade associations.

**UltraVision safety goggles – model A**

Frame	Price/Unit	Price/Unit of (X) units	Article No.
crystal	22,45	(5) 20,20	2502-0040 N3

**UltraVision safety goggles – model B**

gray-transparent	19,45	(5) 17,90	2502-3001 N3
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**Visitor protective goggles**

Frame	Price/Unit	Price/Unit of (X) units	Article No.
black	16,85	(5) 15,20	2502-0042 N3

**Panorama safety goggles**

glass clear	9,15	(5) 8,30	2502-1001 N3
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**Beltbag**

	Price/Unit	Price/Unit of (X) units	Article No.
anthrazit	7,05	(5) 6,35	2502-0001 N3

**SafetyBox**

	32,05	(10) 29,00	2507-9000 N3
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# Protective gear | personal protection for the decantation of dangerous substances

**Rubiflex protective gloves** long or short.  
Safe working with fats, mineral oils and many acids and caustic solutions.



- ▶ Very flexible, soft grip
- ▶ High resistance to abrasion and cuts
- ▶ Comfortable cotton/interlock inside
- ▶ According to EN 374 standard



**Protective gloves** with turn-up cuff, made of nitrile, well-proven for work with acids, fats and solvents, cut-resistant.



**Protective gloves PVC DIN EN 374: 1998**, universal size 35 cm long, with long turn-back sleeve, particularly robust design, strong textile inner lining.



**Plastic apron made of PVC** with eyelets, neck band and waist band welded into the apron, industry quality, black, fabric reinforced, size 80 cm x 100 cm.



**Face protection shield** Modern, rigid design. Visor with protective aluminum rim. Can be set for any size of head. Stepless visor raising. Visor easily replaceable. Complies with EN standard.

## Rubiflex protective gloves

Description	Length cm	Price/pair	Price of (X) pairs	Article No.
long wrist	60	38,60	(10) 35,05	2507-0003 N3
Standard	37	20,20	(10) 18,40	2507-0002 N3



## Protective gear

Description	Price/pair	Price of (X) pairs	Article No.
③ Protective gloves, light green	5,60	(10) 5,05	2507-0004 N3
④ Protective gloves, green	16,95	(10) 16,50	2507-0001 N3
⑤ Plastic apron, black	22,80	(10) 20,80	2507-1001 N3
⑥ Face mask	44,60	(5) 42,35	2502-0010 N3

## Safety equipment | for emergency use when handling dangerous substances



**Cold protection gloves** for work in cold treatment plants, with coolants, as well as for handling liquefied or dry ice gases like nitrogen. Don't wear unsuitable and thus dangerous "protective clothing" such as leather gloves! Our cold protection gloves offer protection against the danger when working with ultra low temperatures down to -160 °C. Two versions: water-resistant and 100 % waterproof.

### Cold protection gloves water-resistant

Size	Price/Pair	Article No.
M	201,75	9805-0002 N2
L	201,75	9805-0003 N2

### Cold protection gloves waterproof

M	249,60	9805-0005 N2
L	249,60	9805-0006 N2



### "Eyes Fresh" Mini eyewash station

Perfect for laboratories, filling stations and all work places, where aggressive substances are used. EyesFresh delivers streams of cold water immediately upon opening the tap. For normal use of the tap, just press the button. Afterwards, EyesFresh returns automatically to eyewash-function. Eyes Fresh can be fitted onto all cold water taps with 1/2" thread (outer thread M22x1) without extra installation work.

### Eyes Fresh Mini eyewash station

Price/Unit	Price/Unit of (X) units	Article No.
115,45	(5) 106,10	2515-0100 N3



① **Eye rinsing bottle** transparent PE, unfilled 600 ml capacity, with valve, dust protection cap, drain-tube and Instructions printed on the bottle.

② **Wall fixture** Green surface coating

### Eye rinsing bottle DIN

Price/Unit	Price/Unit of (X) units	Article No.
25,40	(10) 23,00	2507-2000 N3

### Wall fixture

13,20	(10) 12,60	2507-2001 N3
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## Directory of samplers



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  - 90 ... frozen goods
  - 92 ... bulk goods  
for powders, granulates, grains, dust particles, seeds, nuts etc.
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## Samplers

for liquids, powders and granulates, pastes, muds, gases, soil samples

## Take samples – but do it right!

Correct sampling is very important in the context of quality assurance. It is essential if you want to have reliable and accurate data about the quality, properties or composition of a specific material.



You can carry out very precise material analyses using the most modern techniques. However, if a mistake is made in sampling then even these modern techniques are useless because the initial sampling error is carried through all the steps of the analysis and incorrect results will be obtained. This means that a correct statement about the properties of a substance can only be made if the samples are taken and handled with the same care and accuracy as is used in the subsequent analysis. It all comes down to the fact that the properties and composition of the sample itself must correspond exactly to those of the material from which it has been taken.

### Take samples, but how?

A few basic steps must be observed when taking samples. It is recommended that you operate according to an internal company procedure, which should be a fixed component of the quality standards of every company. In this checklist, all relevant sampling steps should be written down and carried out accordingly.

#### Sampling site

The site where sampling is carried out must be as clean as possible. If this is impossible due to external factors then, at the very least, care should be taken that clean equipment and auxiliary devices are used. During the sampling process care must be taken that no external factors alter the sample. The slightest extraneous impurities can greatly falsify the investigation result. Detergents that are used for cleaning the sampler and sample packaging can also falsify the investigation result.

### Take samples, but who?

#### Skilled workers

Only skilled workers with special training should take the samples. Sampling has to be carried out exactly in accordance with the given guidelines. Skilled workers are able to recognise altered on-site conditions and react quickly to minimize the risk of sample contamination. A skilled worker recognises malfunctions and changed conditions more quickly and analyses them accordingly.



Take samples, but using what?

### Sampling equipment

The selection of the correct equipment is subject to many criteria. It depends on the material properties as well as the type of sampling, the containers in which the material is located, and the frequency of sampling.

In addition to individual requirements, all equipment should fulfil the basic principles explained below.

### Material

The equipment should be made of inert materials from which nothing can escape to contaminate the sample. Of course, this depends on the corrosiveness of the medium to be sampled. As a rule, equipment made of stainless steel and high quality synthetic or plastic material – especially Teflon – is well suited.

### Cleaning

It should be easy to clean the equipment quickly and – under certain conditions – to sterilize it. Depending on your needs, sterile-packed disposable samplers could be appropriate; these can be disposed of after use.

### Processing

Equipment that is reused should not have any grooves or crevices. Residual material collects in such crevices and cannot be easily removed; this means that cross-contamination and memory effects can no longer be ruled out.



### Surfaces

Equipment with especially smooth surfaces has proved to be especially well suited, for example, electropolished stainless steel or Teflon. This prevents material from being deposited and greatly simplifies cleaning. When selecting sampling equipment you should take care to check that it is properly finished both inside and outside. Equipment with only a smooth external surface will not meet any quality standards.

### Sampling techniques – Physical and analytical sampling

A distinction is made between physical and analytical sampling. In physical sampling, the bulk density, material distribution, material properties and – when required – coloring or contamination are determined. It is especially important in this case that the sampler does not change or destroy the material while withdrawing it. Also keep in mind that a sample taken on site still has to be transported. You must also take care during transport and packing that the sample reaches the laboratory uncontaminated.

In the analytical method, special attention must be paid to purity in addition to the aspects listed above. On the other hand, the material properties can be disregarded sometimes, because the sample will be specially processed. In this case equipment can be used which changes the physical properties of the material.



## Sampling techniques

### Multilayer sample

A sample is taken through all material layers to provide a representative cross-section.

### Targetted sample

A targetted sample is taken from a pre-determined point. This is done to determine the material state precisely at this point or several targetted samples are taken over a larger area or in a large volume container. All target-point samples averaged together provide a representative cross-section of the material content.

### Completion of the sampling procedure

After the sample has been withdrawn, the sample must be packed for transport. Clean sampling containers connected directly to the sampling equipment – without intermediaries – are ideal. The sample has no contact with the outside environment and is packed for transport at the same time. The same conditions relating to the sampling equipment apply to packaging, storage, and transport. Here too you should pay attention to the cleanliness of the packaging material and the risk of contamination from escaping substances.

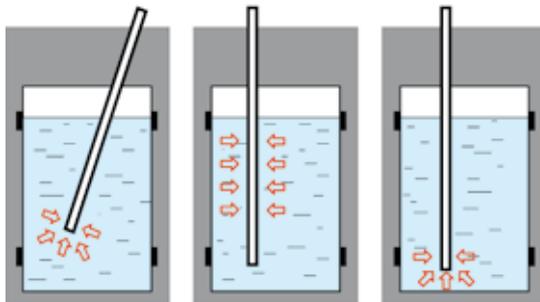
The containers are then labelled and taken to a laboratory – if necessary in coolers. Coolers with temperature monitors are ideal, to ensure that peak storage temperature is maintained.

### Tip

If you take samples from sacks or bags, the insertion points can be reclosed with special labels. You can write on these labels, which will even stick firmly onto very dirty surfaces.

### Any more questions?

We would be happy to advise you.



Point sampling

Cross-sectional sampling Bottom sampling

# Overview on sampling equipment

Product	Page	Liquids, normal	Liquids, aggressive	Liquids, flammable	Viscous substances/muds	Ice	Bulk goods, powders	Gases	Bottom sampling	Sampling transport	Pharma	Steril	Accessories
All-layer sampler	114						x						
AquaSampler	70	x	x										
Beafsteaker	90			x									
Chemistry scoop	75	x	x	x									
ChemoSampler	74	x	x										
close-it control-seal	106						x		x	x	x		x
close-it food	109						x		x	x			x
Detector scoops and scrapers	92						x						
Dip sampler	64	x											
Dipping bottle glas	81	x		x									
Dipping bottle Ex	82	x		x									
Dipping vessel	81	x											
DispoPipette	98	x											
Disposable Disposampler	99	x	x	x							x	x	
Disposable plunging siphon	64	x	x										
EasySampler	122				x				x				
EasyScoop	102						x						
GeoSampler	134								x				
Ice Drill	90				x	x							
IceSampler	91				x	x							
Immersion cylinder	83	x		x									
Immersion cylinder Mini	83	x		x									
Immersion cylinder Target	82	x											
Liquid-sampler	64	x											
LiquiSampler	78	x	x										
MicroSampler	123						x				x		
Milky	119						x						
Mini ViscoSampler	88				x						x		
MiniSampler	66	x	x										
Mole	135						x		x				
Novartos	128						x				x		
PharmaPicker	130						x				x		
PharmaScoop	102				x		x				x		
PharmaSpoon	131				x		x						
Pigment lance	89						x						
PowderDispo	98						x						
PowderProof®	112						x				x		
PowerSampler	124						x						
ProfiSampler	68	x	x										

Product	Page	Liquids, normal	Liquids, aggressive	Liquids, flammable	Viscous substances/muds	Ice	Bulk goods, powders	Gases	Bottom sampling	Sampling transport	Pharma	Steril	Accessories
QualiRod	89				x								
QuickPicker	104						x				x		
SampleSafe seal	119									x			x
Sampling containers	136-137									x			
Scrapers	93				x	x							
Scoops made of PP	93						x		x				
Scoop made of PTFE	74	x	x								x		
Scoop V2A (304)	102				x	x							
All-layer scratcher	122						x						
seal-it, seal labels	120									x			x
SiloDrill	127						x						
SiloPicker	130						x						
SnowPack dry ice machine	203									x			
Spatula	89				x	x	x						x
Spiralus zone sampler	118						x						
Stainless steel scoop	77	x		x	x		x				x	x	
SteriBag	101	x			x	x	x		x	x	x	x	
SteriBag black	102	x			x	x	x		x	x	x	x	
SteriBag kit	102	x			x	x	x		x	x	x	x	
SteriPlast sampling cutlery	97	x			x	x	x						x
SteriPlast sample spoons	96	x			x	x	x						x
SteriPlast sampling spades	95				x		x						x
SteriPlast sampling tube	94	x	x										x
SteriPlast syringes	94	x	x		x								x
SteriPlast spatula	96						x						x
StickProof	131						x				x		
TeleScoop	76	x											
Tubus	118						x						
UniSampler	70	x											
UniSampler „Ex“	71			x									
Valve lance	88						x						
Vampire	72	x	x										
ViscoSampler	79				x								
Zone sampler	113						x				x		



Distributor head for sample tubes with different shapes and sizes

Feed channel and distribution head vibrate at the same frequency

Simple sample tube insertion with one hand

Reproducible part amounts < 1g

Operated via touch-sensitive keyboard

Ideal for sample division for laser diffraction spectroscopy

Minimal standard deviation, typically < 0.5 %



## Repro | high-precision sample divider

What use is the high precision of modern analytical systems in the ppb-range, if sampling and sample division are not carried out with the same degree of accuracy?

Inadequate sampling and sample division result in unsatisfactory and even incorrect analyses. These are worthless, or unnecessarily expensive, because faulty analyses can only produce incorrect results from which any conclusions obtained are "paid for dearly".

Reliable information about the properties of particle systems involving powders, suspensions and emulsions are only possible if:

1. Representative cross-sectional samples are taken with a suitable sampler.
2. The usually far too large amount of sample is reduced to a practical amount of sample while retaining exactly the original composition.

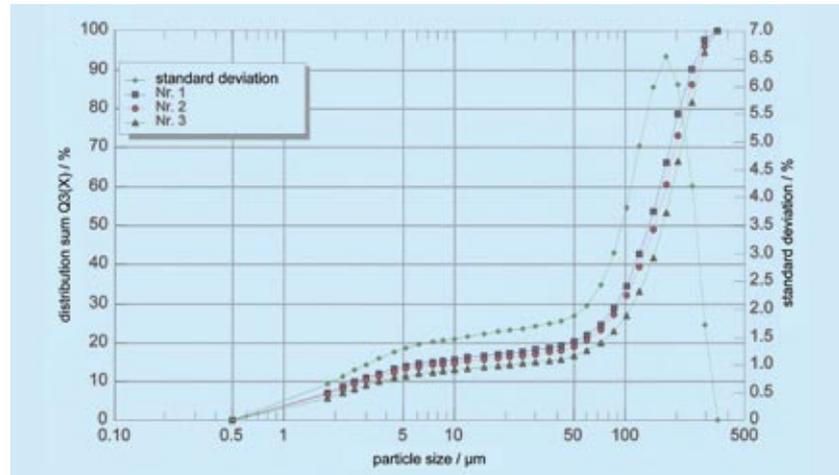
The Repro high-precision sample divider meets these demands for the first time, thereby setting a new standard worldwide. The patented vibration system of the Repro allows reproducible sample division in the milligram range with the highest degree of accuracy.

### What is the difference between the Repro and conventional sample dividers?

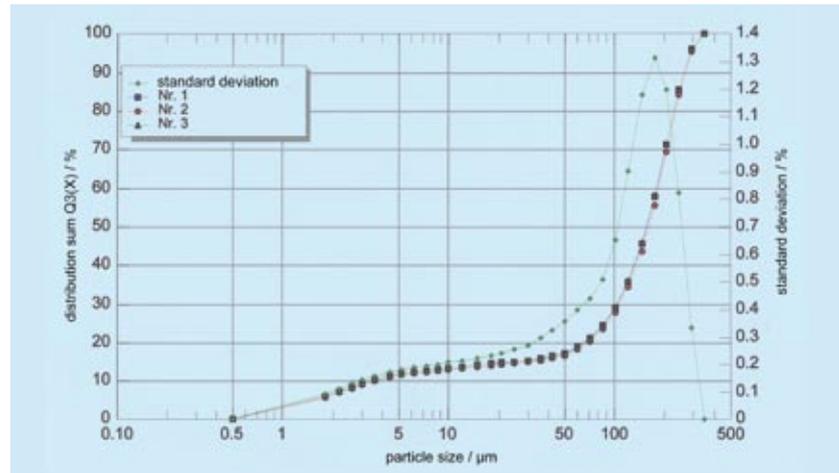
In the Repro it is not just the feed channel that vibrates, but the complete distributor head. In this way samples, particularly poorly flowing substances such as lactose, are transported better in the vibrating distributor head. As in all great inventions, this is a small but crucial advantage which is why this principle has been patented! This new technique has decisive advantages if small,

very small or toxic samples have to be divided and/or the highest degree of accuracy is required for the sample division which must also be reproducible.

This is why our sample divider is called Repro!



Variation with a sample divided by hand



Variation with a sample divided by Repro

## Repro | high-precision sample divider



①

### Customer-specific sample vessels

The Repro adapts itself to your requirements. You can use your usual sample tubes of all shapes and sizes (max. diameter 30 mm, height 73 mm). The sample tubes are simply inserted in the quick-action clamps of the distributor head.

### Sample division in a fume cupboard

The sample divider and control unit are separate, which permits sample division in a fume cupboard, e.g. with toxic substances.

### The protective cabin

allows sample division of toxic substances even without a fume cupboard in a safe room – for the protection of the operating personnel.

### Cleaning function/Residue removal

ensures residue-free emptying of the feed channel and distributor head and guarantees that the whole of the original sample amount is fed through the sample divider. Nothing is retained, which is the only way of ensuring that all of the original sample is contained in all the part-samples.

### Vibration steplessly adjustable

The strength of vibration of the feed channel and distributor head can be set steplessly between 0 % and 100 %. This means that the material flow, depending on the flow behavior of the sample, can be controlled during the whole division process.



②

## Repro | high-precision sample divider

### The predivider avoids agglomerates

Greasy or moist bulk materials tend to form agglomerates. These disturb the continuous flow of the sample in the feed channel, so sample division does not work accurately. The strong vibrating pre-divider destroys the agglomerates and provides a fully homogenous structure. The predivider is an indispensable accessory if agglomerates must be divided. If a predivider is required then only the funnel needs to be replaced.



### Laser diffraction

A typical field of application for the new Repro has been opened up in particle size analysis by laser diffraction spectroscopy, in which sample amounts of < 0.1 g are used for analyses in the laboratory. The Repro vastly improves the reproducibility and meaningfulness of the results.

### Simple handling

The operation and handling of the instrument is simple. The sample tubes are easily and quickly inserted in the self-locking holders and sample division can start immediately. Operation is by a protective touch-sensitive keyboard.

### High-quality materials

All parts coming into contact with the sample are made from stainless steel and aluminum provided with an abrasion-resistant non-stick coating for optimal sample transport.

The housing is made of electropolished stainless steel.

### Summary

Samples divided with the high-performance sample divider Repro are characterized by a significantly lower variation between all part-samples. As a result of the vibration of all sample transporting instrument parts both sample feed and sample division are considerably more uniform and therefore more exact than was previously possible. The cleaning function guarantees complete sample removal, the sample is divided down to the last particle.

In this way the Repro defines a new technological standard and should always be used wherever the best possible analytical results are required. Only when all the links in the chain of sampling, sample division and analysis are of the same strength will the results and the conclusions drawn from them lead to success.

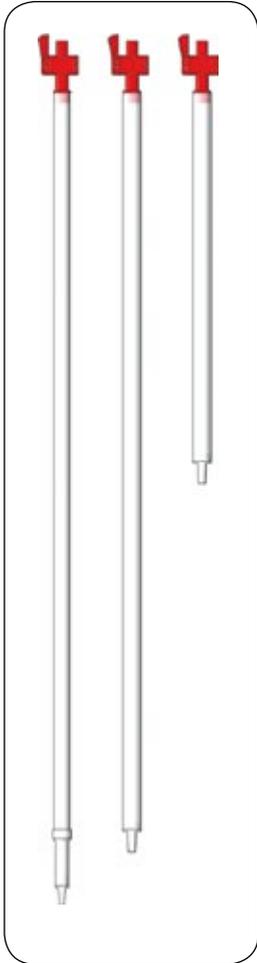


### High-precision sample divider

		Price/Unit	Article No.
①	Repro A	8412,55	5500-1000 N2
②	Protective cabin made of Plexiglass for Repro A	1472,20	5500-0100 N2
	<b>Accessories</b>		
	Capacity ml	Dia. x H mm	Price/Unit
			Article No.
	Sample tubes with lid	5,0 19 x 40	2,29 5500-0915 N2
	Sample tubes with lid	10,0 22 x 44	2,29 5500-0916 N2
	Predivider		435,75 5500-0200 N2

## Dip sampler | for liquids

## Disposable plunging siphon



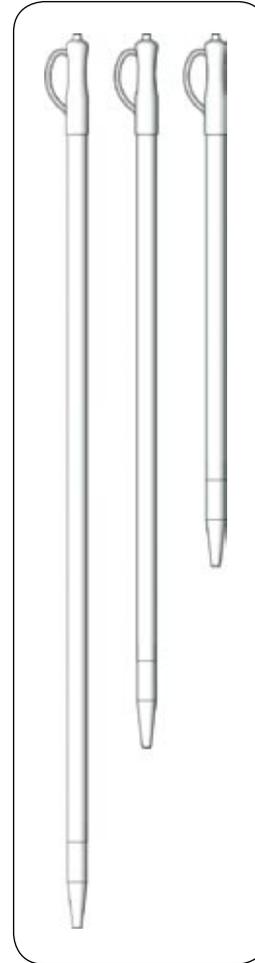
Made of PP for rapid and simple spot checks of liquids. The dip samplers are transparent and enable the contents to be seen clearly. Upper end with reflux valve, lower end with ball valve.

- ▶ Transparent PP
- ▶ Type 200 variable step by step from 100 to 200 cm
- ▶ Special sizes on request
- ▶ All-layer sample and target sample

### Operation

**All-layer sample** 1. Insert the dip sampler with opened valve slowly into the liquid 2. Close the valve 3. Withdraw the dip sampler. Remove the sample.

**Target sample** 1. Insert the dip sampler with closed valve into the liquid until the target spot 2. Open the valve. The liquid flows in 3. Close the valve 4. Withdraw the dip sampler. Remove the sample.



If strongly adhesive liquids are sampled, it can be a lot less expensive to dispose of the sampler properly than to employ a long and complicate cleaning process.

The disposable plunging siphons were specially developed for this. They are made of PE, transparent and allow easy recognition of their contents. PE provides a surface that resists adhesion of the sample material, minimising sample retention and loss.

### Operation

1. Insert/fill collector into liquid.
2. Close thumbhole above the handle using your thumb.
3. Remove plunging siphon, and empty liquid into the sampling bottle.

### DipSampler



Length cm	Dia. mm	Price/Unit	Price/Unit of (X) units	Article No.
50	22	35,15	(10) 32,05	5315-0050 N4
100	22	37,75	(10) 34,40	5315-0100 N4
200 <sup>1</sup>	22	45,35	(10) 40,75	5315-0200 N4

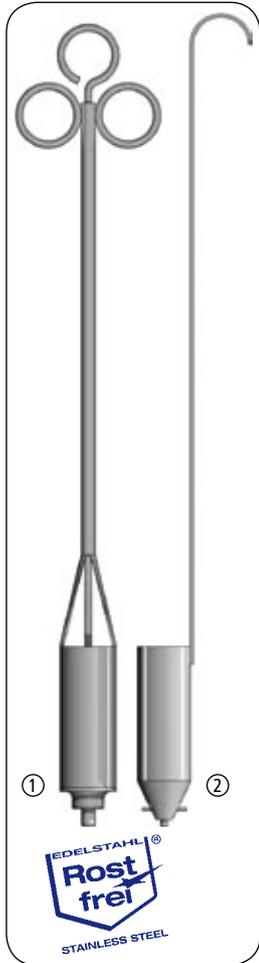
<sup>1</sup> variable step by step from 100 cm to 200 cm

### Disposable Plunging Siphon complete with handle



Total length cm	Plunging depth cm	Capacity ml	Tube dia. mm	Price/Unit	Price/Unit of (X) units	Article No.
50	35	75	27	7,30	(25) 6,65	5387-0050 N4
75	60	175	27	13,20	(25) 11,65	5387-0075 N4
100	85	275	27	18,80	(25) 17,05	5387-0100 N4

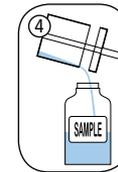
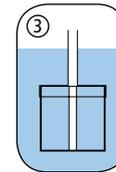
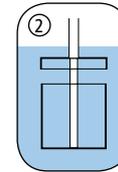
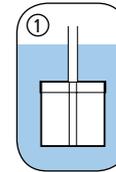
## Liquid-sampler | single hand operation



Liquid-Sampler for single hand operation. The valve is opened and closed using your thumb for type 1 or semi-automatically for type 2. Made of AISI 304 stainless steel.



## Liquid CupSampler



1. Place the collector at the desired depth.
2. Open the lid using the handle. The liquid flows in.
3. Close the filled collector and remove it.
4. Empty the sample into the sample bottle.



Collects liquids of varying viscosity. Media containing particles can also be sampled without difficulty. The sampler can be used in the fields of chemistry, foodstuffs and cosmetics. The cup can be unscrewed from the stem, allowing easy cleaning. Made completely of AISI 316 stainless steel.

### Liquid-Sampler

	Total length mm	Dia. mm	Capacity ml	Price/Unit	Price/Unit of (X) units	Article No.
①	460	32	50	121,70	(5) 119,10	5326-0001 N4
①	540	32	100	134,15	(5) 129,05	5326-0002 N4
②	455	32	50	149,15	(5) 134,65	5326-0003 N4
②	535	32	100	160,25	(5) 145,75	5326-0004 N4

### Liquid CupSampler

Container capacity ml	Container diameter mm	Total length mm	Price/Unit	Article No.
	55	1120	594,00	5357-0001 N2

## MiniSampler and ProfiSampler | taking samples – comfortable, quick and clean sampling



With the **MiniSampler** and **ProfiSampler** the sample liquid only comes into contact with the suction hose and the sample bottle. The possibility of cross-contamination is greatly reduced therefore. Immediately after having taken the sample, the bottles are sealed using an airtight cap and with tamper-evident safety ring seal. The single-use, flexible, suction hose can be quickly replaced, thus ensuring that the samples are never contaminated. If necessary, a new hose can be used for every single sample. Due to its small diameter (8 mm) and flexibility the hose can reach sampling areas which are otherwise inaccessible.

Three models are available

**MiniSampler PE** for general sampling, max. suction lift 5 m\*

**MiniSampler PTFE** for ultra-pure sampling, max. suction lift 5 m\*

**ProfiSampler PP** for industrial use, max. suction lift 6 m\*

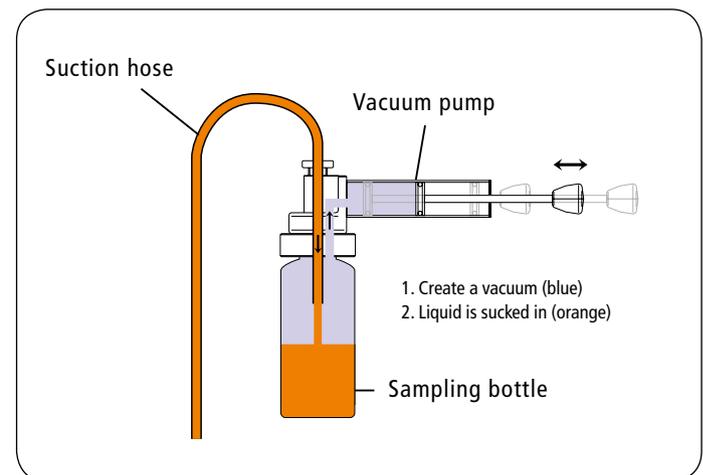
\*depending on medium

- ▶ Also suitable for viscous oils
- ▶ Complete in a practical transport case

Not for aggressive acids. Vapors could destroy pump.

### Operation

1. Place hose and bottle in pump.
2. Insert hose end to desired sample depth.
3. Move the pump piston back and forth and collect the sample.  
The liquid flows directly into the bottle.
4. Take off the filled bottles, close and label them.



## MiniSampler PE | for general sampling

## MiniSampler PTFE | for ultrapure sampling



Ideal for sampling from drums, canisters, tanks.  
Sampler with accessories complete in transport case.

Ideal wherever the highest degree of purity is required.  
Sampler with accessories complete in transport case.

### MiniSampler PE



Contents: Vacuum pump, 10 PE bottles 100 ml, 10 m PE suction hose 6 x 8 mm,  
1 hose cutter, 1 hose weight made of stainless steel AISI 304, 20 seal-it bottle seals

Description	Price/Unit	Price/Unit of (X) units	Article No.
MiniSampler case, PE	<b>139,35</b>	(5) 123,75	5305-0100 N4
Sample bottle, PE, 100 ml	1,35	(25) 1,26	0340-0100 N3
Sample bottle, PE, 250 ml	1,65	(25) 1,60	0340-0250 N3
Sample bottle, PE, 500 ml	1,94	(25) 1,86	0340-0500 N3
Sample bottle, PE, 1000 ml	2,51	(20) 2,40	0340-1000 N3
Suction hose, PE, reel of 100 m	35,65	(10) 32,05	8878-0608 N3
Suction hose, PE, reel of 10 m	11,35		8805-0608 N3
Label Reference Sample sheet of 24 adhesive labels	2,52	(10)2,27	5399-0004 N4
MiniSampler pump	60,30	(5) 49,20	5305-0010 N4
Hose cutter	6,35	(10) 5,80	0006-9506 N3
Adapter for glass thread GL45	107,10		5305-0209 N4

### MiniSampler PTFE



Contents: Vacuum pump, 1 PFA bottle 180 ml, 5 m PTFE suction hose 6 x 8 mm,  
1 hose cutter, 1 hose weight made of stainless steel AISI 304, 20 seal-it bottle seals

Beschreibung	Price/Unit	Price/Unit of (X) units	Article No.
MiniSampler case PTFE	<b>228,80</b>	(5) 208,00	5305-0110 N4
Sample bottle, PFA, 90 ml	43,45	(10) 39,60	6205-0090 N3
Sample bottle, PFA, 180 ml	56,15	(10) 49,80	6205-0180 N3
Suction hose, PTFE, reel of 5 m	34,00	(20) 29,75	8804-0608 N3
Label Reference Sample sheet of 24 adhesive labels	2,52	(10) 2,27	5399-0004 N4
MiniSampler-Pump w/o Adapter	49,50	(5) 44,80	5305-0011 N4
Adapter PTFE for sampling tubs 6205-0090 and 6205-0180	65,50		5305-1020 N2
Hose cutter	6,35	(10) 5,80	0006-9506 N3
Adapter PTFE for glass thread	107,10		5305-0209 N4

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



### ProfiSampler

While the MiniSampler (see page 69) is designed for laboratory use, the ProfiSampler has been specially developed for rough industrial use.

### Uses

Sampling liquids in drums, tanks, road tankers, railroad wagons, ships, lakes, ground water.

### Vacuum samplers

have the advantage that the liquid only comes into contact with the sample tubing and not with the pump itself. This ensures that contamination is kept as low as possible and that the purity of the sample is ideal. The liquid passes through the sample tubing, enters the original sample bottle directly and then goes straight to the laboratory.

### Advantages

- ▶ Larger dimensions and ergonomic handle allow handling with rubber gloves, as is often required in practical sampling.
- ▶ Three feet ensure that the ProfiSampler has a stable stand.
- ▶ Can be supplied with rolls of PE or PTFE sampling hose wherever the highest degree of purity is required.
- ▶ Can be supplied with optimized, straight suction tube for simpler sampling.
- ▶ Transport case for tidy transport and disposal
- ▶ Filling level control, automatic return flow and overflow protection by built-in venting valve.
- ▶ Optimized suction volume 200 ml, suction pressure 0.5 bar and suction depth down to 4 m/water.

### Two versions

#### 1. ProfiSampler Aluminum

For solvents and flammable liquids of VbF Hazard Class AI (VbF is the German Regulation concerning Flammable Liquids\*). With GL 45 bottle thread (fits Schott glass bottles from 100 ml to 1000 ml). The instrument must be grounded when sampling flammable liquids. Use grounding cable.\*

#### 2. ProfiSampler PP

For general sampling, for weak acids, bases, detergents, chemical baths\*.

Made of solid, chemical-resistant polypropylene. With GL 40 bottle thread for Multi-Bottle 500 ml.

\* Always check the chemical resistance of parts coming into contact with the sample. Wear protective clothing!

### Accessories

The ProfiSampler can be extended by useful accessories developed in practice.



### ① + ② Suction tubes PE or PA, straight

have the advantage that they are not slightly bent like the standard tubing (from the roll) and can therefore be immersed absolutely straight in the container. The suction tubes are available in transparent PE for general sampling and black PA for flammable liquids of VbF Hazard Class AI (electrically conducting). 220 cm long with bent end piece which can be inserted directly in the ProfiSampler. Diameter 6 x 8 mm. **Contamination banned!** In practice the low-priced tubes are only used once and then disposed of, instead of being subjected to a costly cleaning process. Therefore, the tubes are not autoclavable.

### ③ Suction tube case

for the practical transport of new suction tubes and the safe storage of used ones. For 100 suction tubes 220 cm long.

- ▶ Sampling bottles in different materials and sizes
- ▶ Sampling bottles 5314-0050 and -0100 now made of borosilicate glass for even better temperature and acid resistance
- ▶ Suction height from surface of liquid 5 m WC

#### ProfiSampler Aluminum

Consisting of: aluminum vacuum pump, with feet, venting valve and GL 45 bottle thread, 1 x 500 ml glass bottle, 5 suction tubes PA black, 220 cm long, conductive, 1 tubing cutter, 1 hose weight made of brass, 24 sample labels, 24 seal-it bottle seals, grounding cable.

Description	Price/Unit	Price/Unit of (X) units	Article No.
ProfiSampler Aluminum	<b>356,10</b>	(5) 323,80	5305-1100 N4

Sampling of flammable liquids. Use anti-static set (see Accessories).

#### ProfiSampler PP

Consisting of: solid PP vacuum pump, with feet, venting valve and GL 40 bottle thread, 1 x 250 ml PP bottle, 10 m PE suction hose (roll), 1 tubing cutter, 1 hose weight made of AISI 304 stainless steel, 24 sample labels, 24 seal-it bottle seals.

Description	Price/Unit	Price/Unit of (X) units	Article No.
ProfiSampler PP	<b>213,65</b>	(5) 190,25	5305-1000 N4

#### Accessories

Description	Price/Unit	Price/Unit of (X) units	Article No.
 Anti-static set	39,10	(5) 35,25	5602-1000 N4
 Suction hose on roll	35,65	(10) 32,05	8878-0608 N3
PE, 6 x 8 mm, roll with 10 m	11,35		8805-0608 N3
PE, 6 x 8 mm, roll with 100 m	35,65	(10) 32,05	8878-0608 N3
PTFE, 6 x 8 mm, Roll with 5 m	34,00		8804-0608 N2
 Sampling bottle made of glass			
100 ml with cap (GL 45)	5,60		5314-0010 N3
250 ml with cap (GL 45)	9,45	(100) 7,70	5314-0025 N3
500 ml with cap (GL 45)	9,05		5314-0050 N3
 1000 ml with cap (GL 45)	10,60		5314-0100 N3
Sampling bottle made of PP			
 250 ml (GL 40)	1,61	(50) 1,20	0319-0250 N3
Suction tubes, straight			
① PE transparent, 220 cm long, pack of 10 pcs.	89,45	(10) 79,05	5305-1022 N4
② PA black, 220 cm long, electrical conductive, pack of 10 pcs.	113,35	(10) 109,20	5305-1024 N4
③ Transport case for straight suction tube	102,95		5305-1029 N4
No. 5305-120 and 5305-130			

## AquaSampler | ultra-pure, non-stick, highly transparent

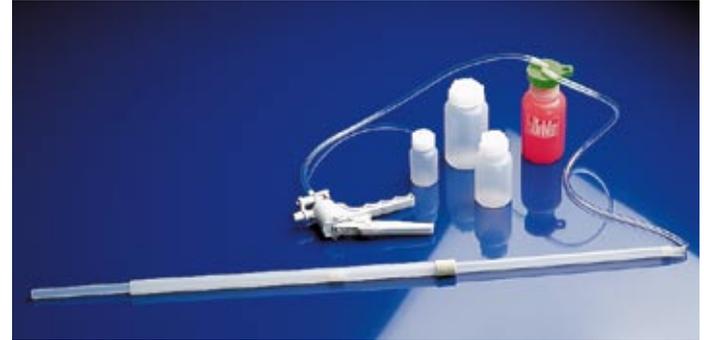
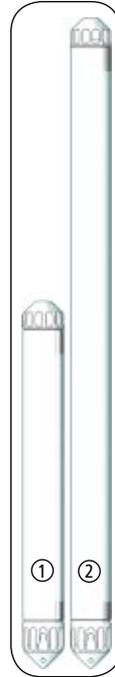
## UniSampler | with telescopic suction lance



Safe and sure pouring



Hand-reel



AquaSampler collects ground water samples from wells, pits and other sources. Fits all normal well shafts down to 2" diameter without tilting or getting stuck. Ultrapure materials guarantee the greatest possible sample purity. Easy to clean thanks to rounded edges and threads.

- ▶ FEP/PTFE – ultrapure, anti-adhesive surface

### Accessories

- ▶ Sturdy manually operated cable reel
- ▶ Plunging cable, AISI 304 stainless steel, PTFE coated

With telescopic suction tube for sampling of liquids from precisely predetermined depths. Telescopic suction lance can be varied at will from 100 cm to a maximum length of 150 cm.

### Operation

1. Set the desired sampling depth by moving the suction lance
2. Attach the sampling bottle to the adapter
3. Lower the suction lance into the medium
4. Create a vacuum using the handpump and collect the sample
5. Remove the filled sampling bottle, close and label it.

- ▶ PP suction lance, PVC suction hose
- ▶ Sample bottles available in 4 sizes
- ▶ Vakuum pump available in aluminum on request

AquaSampler without cable					
	Capacity ml	Total length mm	Outside dia. mm	Price/Unit	Article No.
①	350	400	46	217,35	5308-0350 N4
②	700	760	46	239,20	5308-0700 N4
	1050	1070	46	283,90	5308-1050 N4
Hand-spool PP with wire cable AISI 316, covered with PTFE					
③	Hand-spool, without cable			60,30	5309-0010 N4
	Wire cable, 10 m, AISI 304/PTFE			27,65	5309-0110 N4
	Wire cable, 25 m, AISI 304/PTFE			65,50	5309-0125 N4
	Wire cable, 50 m, AISI 304/PTFE			126,90	5309-0150 N4
	Transport case			80,10	3600-2120 N4
You can find additional reels and cables on page 84 in this catalogue.					

UniSampler with telescopic suction lance		
	Price/Unit	Article No.
incl. 5 sample bottles 250 ml and 500 ml each, hand-driven vacuum pump and adapter for sample bottles, 20 seal-it bottle seals	169,50	5314-1000 N4
Sample bottle 100 ml	1,18	0319-0100 N3
Sample bottle 250 ml	1,61	0319-0250 N3
Sample bottle 500 ml	2,65	0319-0500 N3
Sample bottle 1000 ml	4,42	0319-1000 N3

## UniSampler | with hose



UniSampler with hose and hose weight made of stainless steel. Sampler for deep, narrow and hard-to-reach spots. The heavy stainless-steel tube brings the hose to any desired depth. The samples are also collected using a hand-operated vacuum pump and transferred directly into the sampling bottle to ensure sampling purity.

### Operation

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

- ▶ PVC suction hose, 2,50 m long
- ▶ Supplied complete in case
- ▶ Vakuum pump available in aluminum on request

### UniSampler with flexible hose

	Price/Unit	Article No.
incl. sample bottle PP 1000 ml, hand-driven vacuum pump and adapter for all sample bottles, 1 AISI 304 stainless steel hose weight, 20 seal-it bottle seals, handy transport case	137,30	5314-2000 N4
Sample bottle 100 ml	1,18	0319-0100 N3
Sample bottle 250 ml	1,61	0319-0250 N3
Sample bottle 500 ml	2,65	0319-0500 N3
Sample bottle 1000 ml	4,42	0319-1000 N3
Suction hose for replacement	1,55	5314-2002 N4

## UniSampler "Ex"



Developed for sampling flammable liquids of hazardous materials VbF Hazard Class A1 (VbF is the German Regulation concerning Flammable Liquids). Glass bottle and hose are connected in such a way that they conduct electricity and are grounded via a grounding cable.

### Operation

1. Ground the device
2. Immerse the suction hose to the required depth
3. Attach the adapter to the sampling bottle
4. Generate a vacuum with the manual pump and collect the sample
5. Remove the filled sampling bottle, close it and label it.

- ▶ PTB approval D-333-009 618/00
- ▶ Delivery complete with 4 m hose, glass bottle, vacuum pump and grounding cable in transport case
- ▶ Vakuum pump available in aluminum on request

The UniSampler "Ex" was developed in co-operation with the quality association Tankschutz e.V. (non-profit association for tank protection).

### UniSampler „Ex“

	Price/Unit	Article No.
complete with 4m hose, glass bottle 1000 ml, vacuum pump, grounding cable and hose-weight, in transport case	232,95	5314-3000 N4
Sample bottle made of glass, 1000 ml	10,60	5314-0100 N3

# Vampire sampler | for sampling liquids in the field



Suitable for foodstuffs

Battery hose pump for sampling independent of mains power

Good chemical resistance

Sturdy drive unit

Delivery rate up to 2 l/min

Suction height up to 5 m (water)

Also suitable for media containing particles

Easy cleaning

Sampling directly into the original bottle

Holder for sampling bottle

Hoses made of silicone rubber

## Vampire sampler | for sampling liquids in the field



Vampire in use in the environmental protection sector for sampling from narrow openings and at substantial depths.



Portable, battery-powered hose pump for liquids. Ideal for sampling from barrels, tanks, wells, water separators and sewage and purification systems.

Vampire is packed in a transport case.

- ▶ Easy to clean, the liquid only comes into contact with hose
- ▶ Independent of mains power with rechargeable battery and battery charger
- ▶ Sampling directly into the original sampling bottle
- ▶ Suction depth to 5 metres
- ▶ Also suitable for contaminated substances or substances containing particles
- ▶ Good chemical resistance
- ▶ High output volume of up to 2.0 l/minute

### Vampire sampler

complete with bottle holder, drive unit, battery charger, hose pump and 5 m suction hose made of PE

Description	Length m	Inner dia. mm	Outer dia. mm	Price/Unit	Article No.
Vampire sampler 12 V				626,10	5327-1000 N2
Suction hose made of Marprene	1	4,8	8,0	34,95	5327-0508 N2
Suction hose, PE	100	6,0	8,0	35,65	8878-0608 N3

### Accessories

Description	Price/Unit	Price/Unit of (X) units	Article No.
Sample bottle LDPE 250 ml	1,44	(25) 1,11	0318-0250 N3
Sample bottle LDPE 500 ml	2,35	(25) 1,79	0318-0500 N3
Sample bottle LDPE 1000 ml	3,90	(25) 3,02	0318-1000 N3
Bottle holder for bottles 0302-0500	63,45		5302-2050 N2

more sample bottles you will find from page 145 in this catalog.

## ChemoSampler | for acids, alkalis, detergents

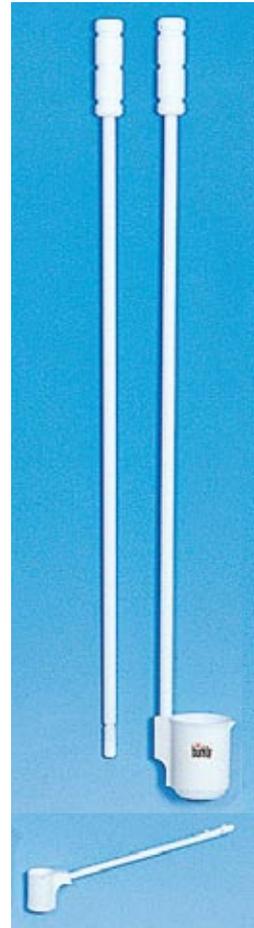


Developed for sampling aggressive liquids, e.g. acids, alkalis, detergents, solvents (check chemical resistance beforehand!). The samples are drawn directly into the screw-on sampling bottle. The tamper-proof bottle closure of these bottles ensures unadulterated sample transport.

Samples can be taken from depths of as much as 200 cm, e.g. from tanks, silos or tankers, by using the extension rod.

- ▶ Gray PP
- ▶ Length 100 cm
- ▶ Extension rod 100 cm
- ▶ Acid and alkali-proof
- ▶ 2 bottle sizes available
- ▶ Incl. sample bottle 1000 ml

## PTFE scoop | completely inert



All parts coming into contact with sample medium are made of pure PTFE, in white. Completely inert against all substances (with the exception of elementary fluoride).

The rod is stabilised with a steel core which is completely encapsulated in PTFE. The 60 cm long rod can be extended by addition of another component to 120 cm. The 10 ml scoop has a fixed rod 155 mm long.

### ChemoSampler



Description	Price/Unit	Price/Unit of (X) units	Article No.
Complete, 100 cm long	57,20	(5) 50,15	5336-1000 N4
Extension rod, 100 cm	28,40	(5) 26,20	5336-0100 N4
PE sample bottles, with screw cap			
500 ml capacity	2,05	(124) 1,87	0342-0500 N3
1000 ml capacity	2,10	(81) 2,04	0342-1000 N3
Protective gear			
Protective gloves	5,60	(10) 5,05	2507-0004 N3
Plastic apron	22,80	(10) 20,80	2507-1001 N3
Safety goggles Ultra Vision	19,45	(5) 17,90	2502-3001 N3

### Scoop PTFE



Capacity ml	Diameter mm	Height mm	Price/Unit	Article No.
10	25	34	65,50	5389-0010 N2
100	55	65	83,20	5389-0100 N2
250	70	95	96,70	5389-0250 N2
500	80	125	115,45	5389-0500 N2
1000	105	155	145,60	5389-1000 N2
Extension rod, length 60 cm			72,80	5389-0001 N2

## Stainless steel scoop | for germ-free sampling



Specially developed for germ-free sampling. In contrast to conventional scoops, the stainless steel scoop has no openings, undercuts or crevices in which residues could collect. Pore-free finishing produced by high-quality laser welding seams.

The stainless steel scoop can be flame-sterilized and can therefore be made completely germ-free, e.g. for taking drinking water samples without introducing any foreign microorganisms into the sample.

- ▶ AISI 304 stainless steel
- ▶ Sterilizable by flaming or steam sterilization

## Chemistry scoop | for aggressive liquids



For aggressive liquids. With fixed rod, completely made of polypropylene.

- ▶ Three sizes
- ▶ Rod length 100 cm
- ▶ No metal parts

### Scoop made of stainless steel complete with rod



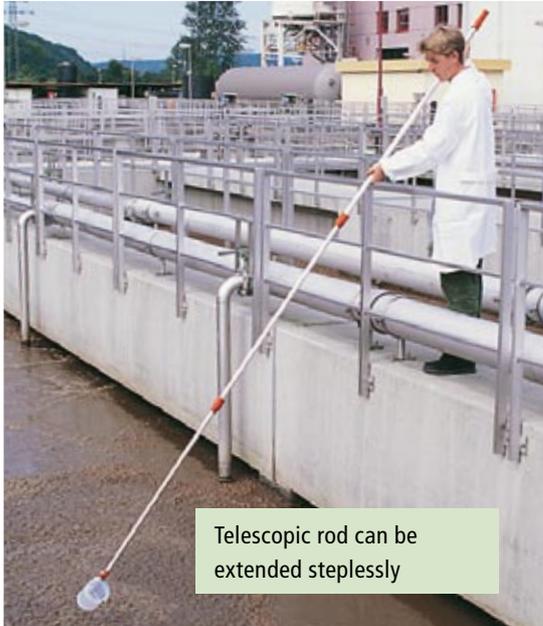
Capacity ml	Total length mm	Price/Unit	Article No.
1000	1150	189,30	5354-1000 N4

### Chemistry scoop complete with fixed rod made of PP



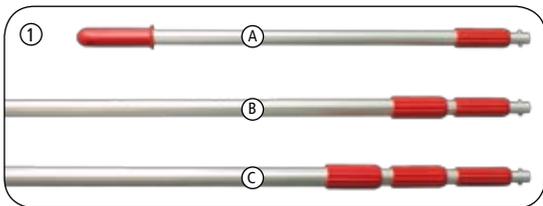
Capacity ml	Rod length/diameter mm	Price/Unit	Price/Unit of (X) units	Article No.
250	1000/20	50,15	(10) 45,35	5353-0250 N4
600	1000/20	51,90	(10) 46,70	5353-0500 N4
1000	1000/20	53,05	(10) 47,75	5353-1000 N4

# TeleScoop | one rod – seven tools



Telescopic rod can be extended steplessly

Versatile sampling system with exchangeable tools for a wide range of applications. The tools (angular beaker, pendulum beaker, bottle holder, stainless steel beaker) are attached to the rod by a practical snap-in joint. Ideal for sampling from baths, tanks, shafts, open waters. Sampling depths down to 6 m can be reached with the adjustable telescopic aluminum rod (see table).



② **Angular beaker**  
Adaptable to different container shapes by adjustable angle setting (up to 90°).

- ▶ Three sizes
- ▶ Polypropylene



③ **Pendulum beaker**  
This beaker automatically swings to a horizontal position. Nothing can be spilt. Suitable for deep and narrow shafts (130 mm dia.).

- ▶ Polypropylene



④ **Pendulum beaker**

- ▶ Stainless steel

① **Telescopic rod**  
The different tools can be attached to the telescopic rod (snap-in joint).

### The telescopic rods have been optimized

- ▶ The individual rods have been provided with an end stop so that one rod cannot accidentally slip out of another rod.
- ▶ The telescopic rods cannot be rotated radially, which means even better handling!
- ▶ Increased telescopic rod rigidity by using cold-rolled profile rod.
- ▶ Optimized lengths!
- ▶ Springs made of stainless steel.

# TeleScoop | for industry and water treatment



### ⑤ Bottle holder

Holds all bottles up to 90 mm dia. Plastic, glass or metal bottles can be safely filled. Angle adjustable up to 90°.

- ▶ With universal quick-clamping belt
- ▶ PP/Aluminum

### ⑥ Stainless steel beaker

With scraper edge, capacity 1000 ml. Ideal for powders, granules, pastes, sludge.

- ▶ Sterilizable
- ▶ Made of AISI 304 stainless steel

### ⑦ Surface catch net, PP/PA blue, 310 mm x 280 mm

### ⑧ Depth catch net, PP/PA blue, 190 mm x 430 mm, net depth 250 mm

The catch net is used for taking solid and organic samples from waters.

- ▶ Mesh width: 2 – 5 mm



### ① Telescopic rod Aluminum, for TeleScoop



Length infinitely variable from	Number of rods	Price/Unit	Price/Unit of (X) units	Article No.
65 cm to 120 cm	2 (A)	21,30	(10) 19,35	5355-0120 N4
95 cm to 280 cm	4* (C)	42,55	(10) 38,50	5355-0280 N4
125 cm to 250 cm	2 (A)	27,25	(10) 25,40	5355-0250 N4
115 cm to 300 cm	3 (B)	42,55	(10) 38,50	5355-0300 N4
165 cm to 450 cm	3 (B)	59,30	(10) 53,05	5355-0450 N4
175 cm to 600 cm	4 (C)	72,80	(10) 67,60	5355-0600 N4

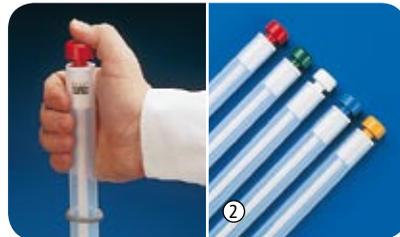
\*Extremely short version – can still be extended to 280 cm.  
Fits in any trunk!

### ② Scoop containers for TeleScoop

Type	Capacity ml	Price/Unit	Price/Unit of (X) units	Article No.
② Angular beaker	600	42,55	(10) 38,60	5354-0050 N4
	1000	43,45	(10) 39,00	5354-0100 N4
	2000	47,75	(10) 42,85	5354-0200 N4
③ Pendulum beaker	500	39,75	(10) 35,80	5354-5050 N4
	1000	41,70	(10) 37,35	5354-5100 N4
	2000	45,35	(10) 41,00	5354-5200 N4
④ Pend. beak. stainl. steel	1000	135,20	(10) 124,80	5354-3000 N4
⑤ Bottle holder	750	49,60	(10) 44,60	5354-4100 N4
⑥ Metal cup	1000	99,85	(10) 89,45	5354-2000 N4
⑦ Surface catch net		46,90	(10) 44,10	5354-5020 N4
⑧ Depth catch net		51,20	(10) 48,10	5354-5010 N4

▶ Bottles you can find from page 145 in this catalogue.

# LiquiSampler | the ultra-pure sample collector for liquids



It can't be easier – with push-button

Color coded push-buttons



Discharge funnel

With depth marks and scraping ring

**LiquiSampler** for liquids, according to DIN 53 242. Made of ultra-pure and chemically inert PTFE/FEP for contamination-free sampling.

Sampling from open and closed barrels, vats, tanks, silos, open waters (ponds, streams, lakes, rivers). Fits all commercially available vats and barrels with openings of at least 25 mm diameter.

**Color coded push-buttons** in red, blue, green, yellow, white and black, prevents mix-ups.

**Easy cleaning** – all surfaces are free of pores and crevices, preventing accumulation of dirt. Only round screw threads proven in foodstuffs hygiene are used. Disassembly and cleaning is extremely simple.

- ▶ Easy-to-use one-hand push-button operation
- ▶ Transparent
- ▶ For point sampling, cross-sectional sampling and bottom sampling

Any mistakes made during sampling or sampling division will inevitably lead to incorrect analytical results! Take samples, but do it right! How this can be done: see page 56.

## ① LiquiSampler, PTFE/FEP



Length cm	Dia. mm	Capacity ml	Price/Unit	Article No.
60	25	150	194,50	5330-2060 N4
100	25	250	260,00	5330-2100 N4
200	25	500	358,80	5330-2200 N4

## ① LiquiSampler made of transparent PP



60	25	150	125,85	5330-1060 N4
100	25	250	167,45	5330-1100 N4
200	25	500	250,65	5330-1200 N4

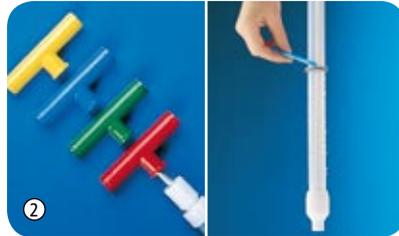
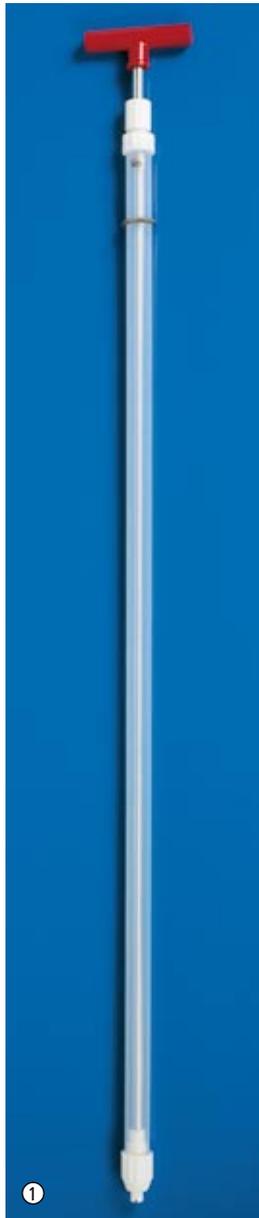
② Color coded push-buttons 21,75 5330-0149 N4  
set of 5 push-buttons, yellow, green, blue, white and black (red = standard color)

Cleaning brush 100 cm for tubes with dia. from 15 – 26 mm 32,15 5304-0100 N4

Safety stand 38,15 5618-0100 N4

Sample bottles (see also pages 145 to 153)  
Visco/LiquiSampler-Set (see also page 79)

# ViscoSampler | the ultra-pure sample collector for medium viscosity substances



Colour coded handles

With depth marks and scraping ring



Discharge funnel

Sampling bottles  
(see pages 145 – 153)



**ViscoSampler** with powerful suction for viscous media. The media is drawn up and discharged using the suction flask. Made of transparent PP or ultra-pure and chemically inert PTFE/FEP for contamination-free sampling. Specially developed for viscous substances, for example, slurries, silt, wet clay and soil samples, soil sediments, oils, emulsions, creams etc.

**Color coded handles** in red, blue, green, yellow, white and black avoid confusion. Red is the standard color supplied with the ViscoSampler.

**Easy cleaning** – all surfaces are poreless and without crevices to prevent dirt accumulation. Only those round threads tried and tested in food hygiene are employed. Disassembly and cleaning is very easy.

- ▶ Available in transparent PP or FEP/PTFE
- ▶ Three sizes

## ① ViscoSampler, made of transparent PTFE/FEP, Teflon®

Length cm	Dia. mm	Capacity ml	Price/Unit	Article No.
60	25	160	261,05	5331-2060 N4
100	25	300	296,40	5331-2100 N4
200	25	650	419,10	5331-2200 N4

## ① ViscoSampler made of transparent PP

60	25	160	194,50	5331-1060 N4
100	25	300	229,85	5331-1100 N4
200	25	650	341,10	5331-1200 N4

② Color coded handles	36,00	5331-0020 N4
5 handles, yellow, green, blue, white and black		
Cleaning brush 100 cm for tubes with dia. 15 – 26 mm	32,15	5304-0100 N4
Safety stand (see page 25)	38,15	5618-0100 N4
Sample bottles (see pages 145 – 153)		

## ③ QualiSampler-Set 5 – for liquids and sludge

Contents	Price/Unit	Article No.
Material Polypropylene, consisting of LiquiSampler, 100 cm, PP (Art.No. 5330-1100) ViscoSampler, 100 cm, PP (Art.No. 5331-1100) Case, 5 bottles 0340-0100, 1 sheets of labels	426,40	5330-1000 N4
Reference sample, cleaning brush 5304-0100		
Material PTFE/FEP, consisting of LiquiSampler, 100 cm, PTFE/FEP (Art.No. 5330-2100) ViscoSampler, 100 cm, PTFE/FEP (Art.No. 5331-2100) Case, 5 bottles 0340-0100, 1 sheet of labels	599,05	5330-1001 N4
Reference sample, cleaning brush 5304-0100		

## Dipping bottles



### Ahead of our time in environmental matters.

We do not wait until stricter environmental laws come into force, but take action as soon as new EU Directives are published.

One EU Directive states that lead is a toxic substance and its use should be avoided as far as possible. Bürkle has already implemented this Directive.

Today our dipping bottles are manufactured without the use of any lead at all.

From left to right: glass dipping bottle, dipping vessel, Mini immersion cylinder, Target immersion cylinder, immersion cylinder Ex

Dipping bottles are used in many different fields for collecting liquids. Bürkle produces by far the widest range of dipping bottles – the right product for each application.

- ▶ Dipping bottles for sediments, for environmental samples, for chemically aggressive products, for petrochemicals, for Ex-proof applications.
  - ▶ Dipping bottles for Ex-proof applications are made from brass with a high-quality nickel plating. We do not want to supply our customers with oxidized products coated with verdigris.
  - ▶ Made from ultrapure materials, high-quality stainless steels and glass. In accordance with EU Directive RoHS 2002/95/EU we do not use toxic and environmentally harmful lead at all! (These lead regulations currently only apply to the electrotechnology sector, but it is only a matter of time before lead will have to be replaced in all other fields, and Bürkle is setting a good example here.)
- ▶ Dipping bottles for point sampling, cross-sectional sampling and bottom sampling.
  - ▶ Accessories: lowering cables and chains made from different materials, manually-operated reels, also for Ex-proof applications.
  - ▶ Dipping bottles are heavy. Lowering requires the use of special manually-operated reels with a large winding diameter. Other manually-operated reels place too much strain on the user's wrist and could represent a health hazard.
  - ▶ Some of our dipping bottles are protected by utility models.

## Dipping bottle | acc. to DIN 51750 pt. 2 <sup>1)</sup>



For taking sludge and water samples in sewage treatment plants. For testing crude oil, liquid petrochemicals, fuels, special and test benzene, fuel oils, kerosene and liquid lubricants of Hazard Classes AI and AII (VbF). Completely made from non-spark-producing materials. Dipping frame made from nickel-plated brass, Easy-Click closure made from electrically conductive polyamide. Suitable for use in Ex-proof areas (observe the safety regulations)!

- ▶ With Easy-Click, the safe and practical closure for rapid bottle exchange.
- ▶ Optimized breakage protection thanks to solid nickel-plated brass tube as bottle holder.
- ▶ Contains no toxic lead weight.
- ▶ Greater weight for quicker lowering.
- ▶ Clear glass bottle, 1000 ml capacity.
- ▶ 125 mm dia., height with bow 330 mm.
- ▶ Weight 3.1 kg.
- ▶ Without lowering cable.

### Point sampling

- ▶ Lower dipping bottle to the required depth.
- ▶ Pull chain/cable with a short, powerful jerk – stopper opens.
- ▶ The sample flows into the bottle.
- ▶ Raise the bottle with the chain/cable.
- ▶ Open the Easy-Click closure and remove the bottle.

<sup>1)</sup> DIN 51750 pt. 2, ASTM D 4057 (form. ASTM D270), ISO 3170

### Dipping bottle

Capacity ml	Dia. x H mm	Price/Unit	Article No.
1000	125 x 330	338,00	5365-4000 N4

Reels see page 84

## Dipping vessel | acc. to DIN 51750 pt. 2 <sup>1)</sup>



**!** Observe Ex-proof guidelines when sampling flammable liquids. Only use conductive lowering cables made of non-spark-producing material and conductive hand reels with grounding connection (Art. No. 5309-0020 or 5309-0030).

Dipping vessel for cross-sectional sampling in tanks, tank cars, surface water, sewage treatment plants.

- ▶ With Easy-Flow, the flow-optimized flow valve.
- ▶ Greater weight for quicker lowering
- ▶ Capacity 1000 ml
- ▶ 75 mm dia., height with bow 400 mm
- ▶ Available in non-spark-producing brass for Ex-proof areas
- ▶ Also in AISI 304 stainless steel.
- ▶ Without lowering cable.

### Operation

Lower vessel into liquid. Bottom and cap valves open automatically. Liquid flows through the vessel. The valves close at the target depth, and the desired sample can be collected.

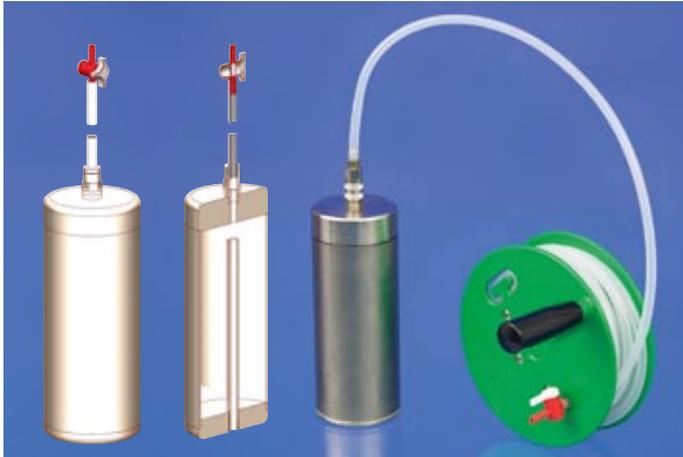
<sup>1)</sup> DIN 51750 pt. 2, ASTM D 4057 (form. ASTM D270), ISO 3170

### Dipping vessel

Material	Weight kg	Price/Unit	Article No.
Brass for Ex use	2,10	384,80	5365-1000 N4
Stainless steel AISI 304	1,90	757,10	5365-2000 N4

Reels see page 84

## Target immersion cylinder



With the Target immersion cylinder, liquid samples can be taken from a particular point. The immersion cylinder is lowered on a strong and sealed tube. When the target has been reached, a valve at the tube end is opened; this vents the immersion cylinder and fills it with the sample. The immersion cylinder is pulled up and emptied via the screw thread.

- ▶ Weight 1.5 kg.
- ▶ With 5 m venting tube.
- ▶ Screw-off upper part for quick cleaning.

### How it works

Lower the Target immersion cylinder to the required depth. When the target has been reached, open the valve at the tube end to vent the cylinder and fill it with the sample. Pull up the immersion cylinder, open the cover and pour out the sample.

Target immersion cylinder compl. w/ venting/lowering tube, valve, cable reel				
Capacity ml	Dia. mm	Height mm	Price/Unit	Article No.
500	75	200	287,10	5365-6000 N4

## Dipping bottle Ex | acc. to DIN 51750 pt. 2<sup>1)</sup>



- ▶ Without toxic lead jacket.
- ▶ Screw-off bottle head for easy cleaning.
- ▶ No welding seams inside the bottle (improved surface).
- ▶ Robust handle made of solid brass rod, 20 x 2 mm.
- ▶ Greater weight (3.0 kg) for quicker lowering.
- ▶ Capacity 1000 ml.
- ▶ 75 mm dia., height with bow 385 mm.
- ▶ Without lowering cable.

For sampling crude oil, liquid mineral oil products, fuels, special and test benzene, fuel oils, kerosene and liquid lubricants of hazard classes AI and AII (VbF). Completely made of non-spark-producing nickel-plated brass.



### Point sampling

- ▶ Observe Ex-proof guidelines!
- ▶ Lower immersion cylinder to required depth.
- ▶ Pull the chain/cable with a short, powerful jerk – the stopper opens.
- ▶ The sample flows into the bottle.
- ▶ Raise the bottle with the chain/cable.
- ▶ Open the closure and empty the bottle.

Observe Ex-proof guidelines when sampling flammable liquids. Only use conductive lowering cables made of non-spark-producing material and conductive hand reels with grounding connection (Art. No. 5309-0020 or 5309-0030).

<sup>1)</sup> DIN 51750 pt. 2, ASTM D 4057 (form. ASTM D270), ISO 3170

Dipping bottle Ex		
Capacity ml	Price/Unit	Article No.
1000	330,70	5365-3000 N4

Reels see page 84

## Immersion cylinder | acc. to DIN 51750 pt. 2 <sup>1)</sup>



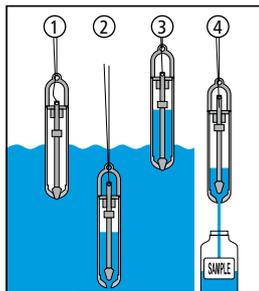
For sampling crude oil, liquid mineral oil products, fuels, special and test benzene, fuel oils, kerosene and liquid lubricants of hazard classes AI and AII (VbF).

- ▶ Screw-off upper part for easy cleaning.
- ▶ No welding seams inside the bottle (improved surface).
- ▶ Greater weight (4.1 kg) for quicker lowering.
- ▶ Robust carrying handle made of solid brass rod, 20 x 2 mm.
- ▶ Capacity 1000 ml.
- ▶ 75 mm dia., height with bow 380 mm.
- ▶ Without lowering cable



### Point sampling

- ▶ Observe Ex-proof guidelines!
- ▶ Two cables are required (lowering cable and pulling cable).
- ▶ Lower immersion cylinder to required depth.
- ▶ At required depth, jerk the pulling cable to open the valve.
- ▶ The sample flows into the cylinder.
- ▶ Release pulling cable to close valve. Raise cylinder with lowering cable.
- ▶ Empty the cylinder via the base valve.



### Bottom sampling

- ▶ Lower cylinder with lowering cable until it hits the bottom.
- ▶ The weight of the cylinder opens the valve.
- ▶ The sample flows into the cylinder.
- ▶ Raise cylinder with lowering cable, the valve closes automatically.
- ▶ Empty the cylinder via the base valve.

<sup>1)</sup> DIN 51750 pt. 2, ASTM D 4057 (form. ASTM D270), ISO 3170

## Mini immersion cylinder | for liquids



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.

- ▶ Capacity 50 ml.
- ▶ 30 mm dia., height 180 mm.
- ▶ Weight 280 g.
- ▶ Without lowering cable.
- ▶ Screw-off upper part for easy cleaning.

### How it works

The liquid continuously flows through the immersion cylinder while it is being lowered.

When it is pulled up, both the flap valves close automatically.

It can be emptied via the base valve or the upper screw-off cap.



- ⚠ Observe Ex-proof guidelines when sampling flammable liquids. Only use conductive lowering cables made of non-spark-producing material and conductive hand reels with grounding connection (Art. No. 5309-0020 or 5309-0030).



### Immersion cylinder nickel plated brass, without cable



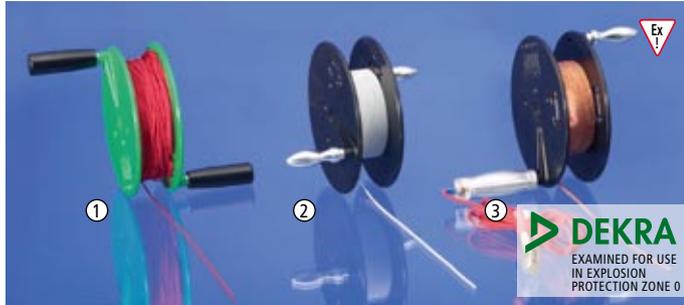
Capacity ml	Dia mm	Length mm	Price/Unit	Article No.
1000	75	380	431,60	5365-7000 N4

### Mini immersion cylinder



Capacity ml	Dia. mm	Height mm	Price/Unit	Article No.
50	32	180	212,15	5365-5000 N4

## Manually-operated reel | for dipping bottles



The manually-operated 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 reels can be equipped with various cables or chains. If flammable or highly flammable liquids are to be collected, then electrically conductive manually-operated reels must be used together with a grounding cable. The dipping bottles and immersion cylinders must be made of non-sparking materials.

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

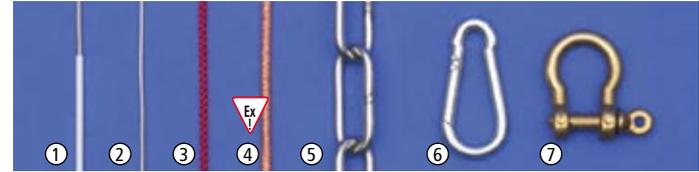
- ① **Manually-operated reel PP** polypropylene, green, without lowering cable
- ② **Manually-operated reel PA** polyamide, black, electrically conductive, without lowering cable
- ③ **Manually-operated reel Ex** polyamide, black, electrically conductive, with grounding cable, without lowering cable

### Manually-operated reel

Description	Price/Unit	Article No.
① Manually-operated reel PP, green	60,30	5309-0010 N4
② Manually-operated reel PA, black	102,95	5309-0020 N4
③ Manually-operated reel Ex, black, with grounding cable	161,20	5309-0030 N4

Please order your required lowering cable separately. Refer to the table opposite.

## Lowering cables, chains, snap hooks



for dipping bottles and immersion cylinders and fitting manually-operated reels made of different materials. Max. load up to 10 kg.

- ① **AISI 304 stainless steel lowering cable, PFA-coated**  
Ultrapure materials, cable with practically no influence on sample. Outstanding chemical resistance. Cable remains practically unwetted, as all the liquid flows off the PFA skin
- ② **AISI 304 stainless steel lowering cable** Good chemical resistance
- ③ **Lowering cable made of PP cord, red or blue** Color-coded
- ④ **Copper lowering cable<sup>1)</sup>**
- ⑤ **AISI 304 chain**
- ⑥ **Stainless steel snap hooks**
- ⑦ **Brass shackle<sup>1)</sup>**

### Lowering cables, lowering chains

Description	Length m	Dia. mm	Price/Unit	Article No.
① AISI 304 steel lowering cable, PFA-coated	10 m	2,0	<b>27,65</b>	5309-0110 N4
AISI 304 steel lowering cable, PFA-coated	25 m	2,0	65,50	5309-0125 N4
AISI 304 steel lowering cable, PFA-coated	50 m	2,0	126,90	5309-0150 N4
② AISI 304 steel lowering cable	10 m	1,25	<b>21,85</b>	5309-0301 N4
AISI 304 steel lowering cable	25 m	1,25	45,75	5309-0302 N4
AISI 304 steel lowering cable	50 m	1,25	84,25	5309-0305 N4
③ PP-cord lowering cable, red	10 m	2,0	<b>8,55</b>	5309-0201 N4
PP-cord lowering cable, red	25 m	2,0	19,45	5309-0202 N4
PP-cord lowering cable, red	50 m	2,0	37,45	5309-0205 N4
④ Copper lowering cable <sup>1)</sup>	10 m	4,5	<b>74,90</b>	5309-0410 N4
Copper lowering cable <sup>1)</sup>	25 m	4,5	166,40	5309-0425 N4
Copper lowering cable <sup>1)</sup>	50 m	4,5	322,40	5309-0450 N4
⑤ AISI 304 steel lowering/pulling chain	10 m	2,3	<b>80,10</b>	5309-0510 N4
AISI 304 steel lowering/pulling chain	25 m	2,3	190,30	5309-0525 N4
AISI 304 steel lowering/pulling chain	50 m	2,3	333,85	5309-0550 N4
⑥ Stainless steel snap hook			6,05	0006-5300 N4
⑦ Brass shackle <sup>1)</sup>			8,65	0006-5301 N4

<sup>1)</sup> non-spark-producing metal

## Everything safely under cover



Since October 2008 all our departments, including our stores, are now under one roof at our new location in Bad Bellingen. More than 2500 products are stored on over 1000 Euro pallets and even more shelves just waiting to be called up. The new construction of our logistics center means that we can process customer orders even more quickly than before.

The majority of items that are ordered before 1 p.m. leave our premises on the same day.

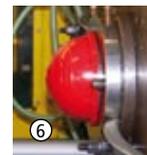
We have also planned our new logistics center from a future-oriented ecological point of view. Our underfloor heating is operated by heat pumps using ground water to keep our fingers warm in winter and heads cool in summer. This also considerably lowers

our energy costs, which is almost essential in a time of high heating oil prices.

And we are surrounded by nature on all sides. Just how fine a situation Bürkle occupies can best be seen by taking a holiday in the Markgräflerland – for example in our guesthouse in Feuerbach. Have a look at page 36.

Bordering on a conservation area, on an old riverbed of the Rhine, makes both work and thinking easier. We don't just want to reflect, but think ahead – about further innovative products, even better service, optimal quality – and all for our customers' benefit.

*Zeit für Sie*



- ① Everything under one roof
- ② Martin Saint-Denis
- ③ Our sales department: Light, friendly rooms provide for a pleasant work atmosphere
- ④ The modern logistics center: Here fork-lift truck driving makes fun
- ⑤ Most current CAD programs are indispensable during the product development
- ⑥ Also the "classic" products are produced on modern machines

## Environmental protection



### Consider the whole – act logically.

The preservation of our environment and the responsible treatment of our sources of raw materials is an important aspect of Bürkle's product and corporate philosophy. This means that we regard environmental protection as an interdisciplinary duty that affects every sector, from purchasing raw materials and manufacturing the products right through to their disposal. We have a clear target: to treat our resources with care and to minimize emissions.



### Environmental protection is a natural part of our products.

Right from the start of developing a new product we always take its potential effects on the environment into account. This is why we use the environmentally

friendly and fully recyclable plastics polyethylene (PE) and polypropylene (PP) to the largest possible extent. These both belong to the thermoplastic group and are outstandingly suitable for being recycled, as they have the simplest molecular structure of all plastics. They are non-toxic and groundwater-neutral. As they are pure hydrocarbon compounds their combustion produces only carbon dioxide and water.

### When resources are involved we make all the savings we can.

We have optimized our manufacturing processes to such an extent that rejects and waste are reduced to the absolute minimum. This is done by using production methods that are orientated to subsequent re-utilization. We have our own technical facilities and the know-how for closing the raw materials cycle to the largest degree possible. Otherwise they are disposed of in a proper manner.

"During the development and manufacture of products we always take their environmental effects into consideration." – Veit Bürkle

For example, the unavoidable plastic waste that occurs when processing plastics is ground up and the majority of it is then returned to the manufacturing process. All that remains is a minimum residue that cannot be processed any further but which can be disposed of as household waste.

### Do more with less energy.

Each kilowatt-hour of electricity saved is a gain for our environment and also reduces our energy budget. Sensors in the warehouse make sure that the lights only go on when somebody is in that particular racking run. Process heat is not just discharged into the atmosphere, but into our heating plant. This again obtains heat from the ground water by using heat exchangers – from our own water source. And the neighboring biotope enjoys the water from our roof. Veit Bürkle is currently planning further measures for an even more environmentally-friendly production.



### **Environmentally green, even in the office.**

Bürkle has put the paperless office into practice. With our EASY software, the market lead in the paperless office sector, all files are scanned at Bürkle in document quality. In this way the majority of our mail is drawn up and dispatched electronically.

- ▶ Order confirmations for more than 20,000 orders per year are sent automatically by fax.
- ▶ Most invoices are included in the package with the goods; this saves envelopes and reduces postal charges.

The Bürkle Catalog is also following this trend toward paperless media. It is available in digital form on the Internet.

### **Packaging isn't peanuts for us.**

Less packaging – more environmental protection. By logical orientation toward environmentally-friendly dispatch Bürkle not only reduces the amount of packaging material, but also saves its customers from additional costs.

- ▶ For dispatching goods we use only cardboard boxes with recycling markings.
- ▶ Boxes in good condition are reused.
- ▶ Customer's dispatch orders are collected to reduce packaging material.
- ▶ No superfluous packaging material is used.

### **Quality standards can be met. Or exceeded.**

Our aim is not just to comply with rules and regulations but, wherever possible, to be better than their requirements.

This applies not only to our quality management system as per DIN EN ISO 9001:2000, which we introduced no less than 10 years ago and which covers all processes throughout the company.

This ambitious target also applies to environmental protection.

As we only process plastics and do not produce them ourselves, we are a company with an inherently very low impact on the environment. We produce neither toxic substances nor do we use hazardous chemicals. Only the hydraulic oil used for operating our plastic processing machines is replaced after about three years by an authorized recycling company.

### **Ahead of our time in environmental protection.**

We don't wait until stricter new environmental laws come into force, but take action as soon as EU Directives are published. For example, one EU Directive states that lead, a toxic substance, should be avoided. Bürkle has implemented this directive in a consistent manner. Today, for example, our immersion bottles are manufactured without using any lead at all.

### **Using our own ideas to promote innovation.**

At Bürkle economic viability and environmental protection are mutually compatible. This is why we foster the environmental consciousness of our employees who, with their innovative ideas and their concrete realization, make a contribution to reducing environmental pollution or preventing it right from the start.



## Mini ViscoSampler | for small quantities



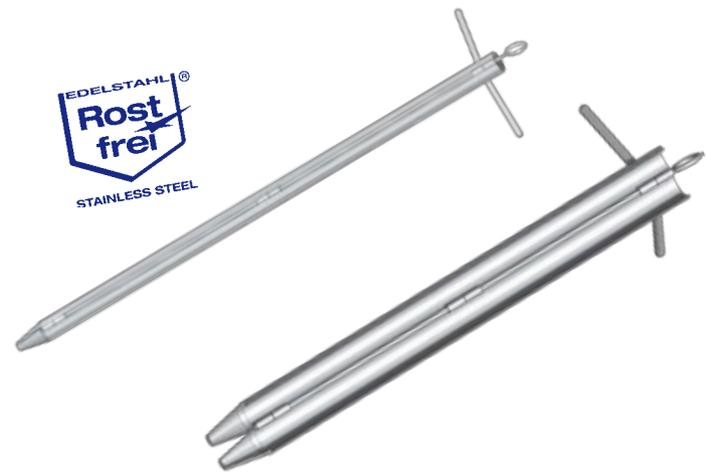
For viscous substances like pastes, muds, creams, oils. Made of AISI 316 stainless steel, electropolished and ideal for use in pharmaceutical areas. The sample is drawn in using the pump rod and directly conveyed to the sampling container. Easy cleaning for flawless sampling. Suction capacity 30 ml to 75 ml. Depending on the viscosity, the unscrewable suction head can be fitted with suction drills of 2 mm to 6 mm.

- ▶ AISI 316 Stainless steel
- ▶ Ideal in pharmaceutical areas
- ▶ Sterilizable
- ▶ Diameter 15 mm

### Mini ViscoSampler with 2 mm suction head

Description	Price/Unit	Price/Unit of (X) units	Article No.
Length 60 cm	200,70	(5) 179,90	5341-1060 N4
Length 100 cm	232,95	(5) 210,10	5341-1100 N4
Length 150 cm	284,95	(5) 260,00	5341-1150 N4
Suction heads for Mini ViscoSampler exchangeable			
Suction head 2 mm	32,05	(5) 29,00	5341-1002 N4
Suction head 4 mm	32,05	(5) 29,00	5341-1004 N4
Suction head 6 mm	32,05	(5) 29,00	5341-1006 N4

## Valve lance



Sampling insertion device acc. to DIN 51750 pt. 3 and DIN 53242 pt. 3 for multilayer samples of pastes, viscous and semiliquid substances. Especially useful when sampling layered pastes, as all layers remain intact. Stainless steel AISI 316, length 550 mm or 800 mm with optimized hinges for easier cleaning – fully detachable.

### Operation

For **viscous substances**, the valve lance is inserted to the bottom whilst **closed**, then opened and then withdrawn again closed.

When sampling **pastes**, the valve lance is inserted to the bottom whilst **opened**, then closed and withdrawn again.

### Valve lance

Description	Price/Unit	Article No.
Stainless steel AISI 316, length 550 mm	985,00	5359-1600 N4
Stainless steel AISI 316, length 800 mm	1231,00	5359-1800 N4
Transport case		
for valve lance	80,10	3600-2120 N4

## QualiRod conical | for pastes



Conical hand-drill, conically shaped, with sharp cutting edges and a solid handle. For taking samples from soft, paste-like substances (cheese, butter, soap, wax, etc.).

- ▶ AISI 304 Stainless steel
- ▶ Sterilizable
- ▶ According to EN/ISO 707

QualiRod conical			
Drilling depth mm	Price/Unit	Price/Unit of (X) units	Article No.
120	61,35	(5) 57,20	5311-0001 N4
170	70,70	(5) 67,85	5311-0002 N4

## QualiRod cylindrical | for pastes



Cylindrical hollow drill with a sharp cutting edge. The hand-drill can easily be driven into paste-like and semi-solid substances by a rotating movement. The samples cut out are subsequently removed from the drill using the push-rod ejector. Drilling depth 20 cm, total length 260 mm, weight 386 g. Inside diameter 8 mm, Outside diameter 10 mm.

- ▶ AISI 304, sterilizable

QualiRod cylindrical			
Price/Unit	Price/Unit of (X) units	Article No.	
92,35	(5) 83,45	5311-0101 N4	

## Spatula | for pastes



Universal instrument for the collection of pastes, creams, slurries, etc.

- ▶ Available in two sizes
- ▶ Blade made of AISI 304 stainless steel, wooden handle

Spatula stainless steel/wooden handle			
Length mm	Price/Unit	Price/Unit of (X) units	Article No.
180	10,60	(10) 9,80	5313-0180 N4
300	17,05	(10) 15,50	5313-0300 N4

## BeafSteaker | as per HACCP



For taking bacteriological samples from the surfaces of dead animals (cattle, hogs, sheep, goats and horses) in slaughterhouses and in butchers' shops. The BeafSteaker is used to cut out a 25 mm round sample from the animal's skin. The stainless steel cutter allows the sample to be cut out easily.

The BeafSteaker can also be used for other sampling purposes (histology, medicine, food and semi-luxury articles, cheese factories, agriculture)

The BeafSteaker can be steam-sterilized or flamed. A hole in the crown prevents air compression and is used for ejecting the sample.

BeafSteaker		
Cutter crown	Price/Unit	Article No.
Ø mm	of (X) units	
25	156,00	5388-1000 N4
Transport case		
	8,85	3600-0101 N3

## Ice borer | for deep-frozen and semi-solid substances



For deep-frozen products in the food industry and semi-solid substances. The sharp sawing crown of the very robust hollow borer rapidly cuts into the sample. A cylindrical sample (cross-sectional sample) with a diameter of 18 mm and a length of up to 20 cm can be cut out. Consists of three parts: borer, borer head for use in conventional drills and rod for pressing the cylindrical sample out of the borer head.

- ▶ made of AISI 316 stainless steel
- ▶ sterilizable
- ▶ 20 cm long, 21 or 54 mm outer diameter



Ice borer			
Description	Inner Dia.	Price/Unit	Article No.
Complete with case	18 mm	214,25	5323-0200 N4
Complete with case	50 mm	288,10	5323-2010 N4

## IceSampler | for frozen, pasty materials



Developed for sampling from frozen, high viscous, pasty materials and similar substances. The Ice-Sampler screws into the sample material and simultaneously extracts and conveys the sample into the sampling cylinder. The sampling cylinder is detachable.

The IceSampler is electropolished and does not have any flutes for perfect and easy cleaning.

- ▶ Sterilizable
- ▶ Electropolished
- ▶ Simple cleaning

IceSampler handle, rod, sampler					
	Length mm	Dia. mm	Capacity ml	Price/Unit	Article No.
IceSampler	300	38	50	333,85	5339-0300 N2
IceSampler	550	38	50	355,70	5339-0550 N2
IceSampler	1050	38	50	377,50	5339-1050 N2
Transport case for IceSampler 300 mm				9,65	3600-0021 N3

## Pigment lance | for pastes and pigments



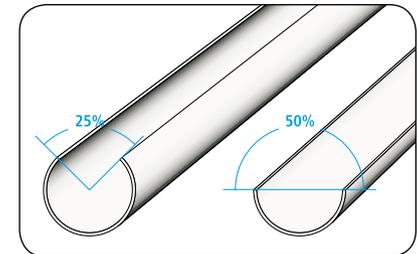
For pigments and pastes und agglomerating bulk goods.

### Two models are available

- ▶ With half-open flute 50 %
- ▶ With one-quarter-open flute 25 %

### Operation

1. Insert the lance to the desired depth.
2. Turn handle; the sample is collected in the open flute.
3. Withdraw the lance.
4. Remove the sample.



Flute openings  
25 % left for less adhesive products,  
50 % for slightly adhesive products.

### Pigment lance

Length mm	Dia. mm	Flute openings	Cap. ml	Material	Price/Unit	Article No.
300	30	25 %	145	AISI 316	150,80	5369-0300 N4
300	30	50 %	85	AISI 316	164,30	5369-0310 N4
600	30	25 %	312	AISI 316	217,35	5369-0600 N4
600	30	50 %	179	AISI 316	236,10	5369-0610 N4
900	30	25 %	480	AISI 316	292,25	5369-0900 N4
900	30	50 %	273	AISI 316	316,15	5369-0910 N4

## Detector scoops and scrapers



Specially developed for the food industry. These scoops and scrapers are made from PP which is approved for contact with food.

The material can be detected and sorted out by commonly used metal detectors.

- ▶ Visible to X-rays
- ▶ No damage to expensive and sensitive machinery
- ▶ More favorably priced than stainless steel
- ▶ Resistant and long-lasting
- ▶ Easy to clean
- ▶ Practically unbreakable

Detector scraper				
Description	B x H mm	Price/Unit	Price/Unit of (X) units	Article No.
75 mm	75 x 205	5,10	(5) 4,68	8300-0001 N3
100 mm	100 x 205	9,05	(5) 8,20	8300-0002 N3

Detector scoop				
Description	B x D x H mm	Price/Unit	Price/Unit of (X) units	Article No.
mini	77 x 107 x 207	6,25	(5) 5,70	8300-0003 N3
small	110 x 150 x 250	10,50	(5) 9,65	8300-0004 N3
medium	138 x 187 x 310	21,40	(5) 19,55	8300-0005 N3
big	167 x 230 x 355	30,90	(5) 28,30	8300-0006 N3

## Scoops and scrapers



Iron scoops are loud, can be dented and rust and are also heavy. Plastic scoops have none of these disadvantages and are also hygienic, because they are made in one piece and have a non-stick surface. They also have a high chemical resistance, are unbreakable and, depending on the version, may be anti-static, anti-microbial, suitable for use with food and available in different colors (cadmium-free) – all valuable advantages.

# Scoops and scrapers | anti-static for industrial use and for foodstuffs as per FDA and EU 90/128

## Three materials

The scoops and scrapers are made from polypropylene and contain additives for different applications.

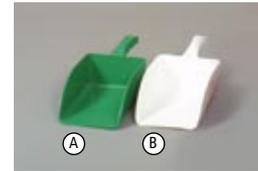
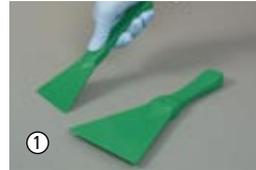
- Ⓐ Industry color code green
- Ⓑ Foodstuffs color code white

## Six products

- ① Scraper with fixed handle
- ② Hand scoop
- ③ Filling scoop, ideal for sampling
- ④ 2-part scoop with D-grip
- ⑤ 2-part scoop with T-grip
- ⑥ 1-part scoop, reduces contamination

## Fields of application

Pharmaceuticals, biotechnology, foods, feed, chemistry, industry, agriculture, fish farming, sampling, veterinary use.



## Industry

With anti-static additive, ideal for robust use in chemistry and industry. Polypropylene has a high resistance to chemicals and temperatures. The scoops are unbreakable, easy to clean and lightweight.

## Foodstuffs

The easy-to-clean, smooth and pore-free surface of polypropylene makes these scoops extremely suitable for the food sector. They can be also used with boiling products.

► For foodstuffs (FDA and EU 90/128)

► Anti-static

Article	Dimensions LxW cm	Total length cm	Weight g	Handle	Ⓐ Industry, green			Ⓑ Foodstuffs, white		
					Price/Unit	Price/Unit of (X) units	Article No.	Price/Unit	Price/Unit of (X) units	Article No.
① Scraper	8x7.5		45		4,32	(10) 3,43	8300-4001 N3	4,32	(5) 3,43	8300-4011 N3
① Scraper	11x11.5		80		5,50	(10) 4,42	8300-4002 N3	5,50	(10) 4,42	8300-4010 N3 <sup>1)</sup>
② Hand scoop	31.5x24	53	520		19,95	(5) 18,10	8300-1003 N3	17,45	(5) 15,60	8300-1010 N3
② Hand scoop	34.5x25	59	810		31,30	(5) 28,40	8300-1001 N3			
③ Filling scoop	16x11	25	90		4,73	(10) 4,31	8300-5001 N3 <sup>1)</sup>	4,73	(5) 4,31	8300-5010 N3
③ Filling scoop	20x13.8	31	185		7,30	(5) 6,65	8300-5002 N3 <sup>1)</sup>	7,70	(5) 7,05	8300-5011 N3
③ Filling scoop	23x16	36	290		8,55	(5) 7,60	8300-1002 N3	8,55	(5) 7,60	8300-5012 N3
④ 2-part scoop	31.5x24.5	97	1040	T	41,60	(5) 37,35	8300-2001 N3	41,60	(5) 37,35	8300-2010 N3
⑤ 2-part scoop	24.5x34.5	112	1280	D	53,05	(5) 46,90	8300-3006 N3 <sup>1)</sup>			
⑥ 1-part scoop	35.5x27.5	111	1600	D				65,50	(5) 58,25	8300-0010 N3
⑥ 1-part scoop	37.5x35	110	1925	D				68,65	(5) 61,35	8300-0011 N3

<sup>1)</sup> Not available from stock, delivery time 2 weeks

## SteriPlast ...

### SteriPlast – sterile samplers for single use

SteriPlast products save time and money during sterile sampling. Time-consuming sterilization, packaging and storing the samplers is not necessary, users can concentrate on the correct sampling procedure itself.

SteriPlast samplers allow quick, convenient and safe sampling and prevent contamination.

The SteriPlast range includes the most important tools for sterile sampling such as scoops, spatulas, spoons, sampling cutlery, syringes, bags and disposable DispoSamplers for liquids, viscous material and bulk goods – a complete range for a wide variety of applications.

## SteriPlast syringe



The Syringe is used to take sterile samples and store them. The sample liquid can be easily observed through the transparent cylinder. The amount of sample (max. 50 ml or 100 ml) can be read off from the printed scale.

The syringe is supplied in a sterile package and is ready for immediate use.

The syringe can be extended to any length with additional tubing. The reduction adapter (supplied with 100 ml syringe) allows the use of extension tubing with 6 mm or 4 mm i.d. (not included in delivery).

- ▶ PP, transparent
- ▶ Scale of contents
- ▶ Sterilized, individually packed
- ▶ 10 pieces in pack/box

### SteriPlast Syringe

Capacity ml	Price/Pack w/ 10 pcs.	Price/Pack of (X) packs	Article No. 
50	15,40	(6) 13,95	5325-0060 N4
100	46,05	(5) 39,20	5325-0100 N4

# SteriPlast sampling spade



For powders, granulates, pastes. Additional closing cover makes them especially practical.

- ▶ Sterilized, individually packed
- ▶ 10 pcs. in pack/box



Remove sterile scoop.



Collect sample.



Seal scoop.



Protected sample.

**Bulk prices**

SteriPlast Sampling Spade, with lid				
Capacity ml	Length mm	Price/Pack of 10 pcs.	Price/Pack of (X) packs	Article No.
60	205	28,40	(10) 26,85	5378-0060 N4
125	220	34,35	(10) 32,70	5378-0125 N4

## SteriPlast spatula



For powders, granules, pastes. With fixed handle, ideal for taking samples from sacks, containers or the manufacturing process. The rigid tip allows caked surfaces to be penetrated.

- ▶ Total length 228 mm
- ▶ Penetration depth 152 mm
- ▶ Capacity 36 ml
- ▶ PS, white
- ▶ Sterilized, individually packed
- ▶ 10 pieces in pack/box

**Bulk prices**

## SteriPlast sample spoons



For powders, granulates, pastes, liquids

- ▶ Available in two sizes, 125 mm and 150 mm length
- ▶ Sterilized, individually packed
- ▶ 100 pcs in pack/box

**Bulk prices**

### SteriPlast Spatula

Insert. l. mm	Price/Pack of 10 pcs.	Price/pack of (X) packs	Article No.
152	17,25	(10) 16,40	5378-2000 N4

### SteriPlast Sample Spoons

Length mm	Price/pack of 100 pcs.	Price/Pack of (X) packs	Article No.
125	28,50	(10) 26,30	5378-1125 N4
150	30,35	(10) 28,90	5378-1150 N4

## SteriPlast sampling cutlery



Fork, spoon and knife in one tool – the multifunctional Bürkle cutlery. Cutting edges at both sides are perfect to cut firm or fibrous food such as sea fruit, meat, poultry, vegetable or fruit.

For right- and left-handed users.

Powders, granulates, pastes and liquids can be sampled with the spoon.

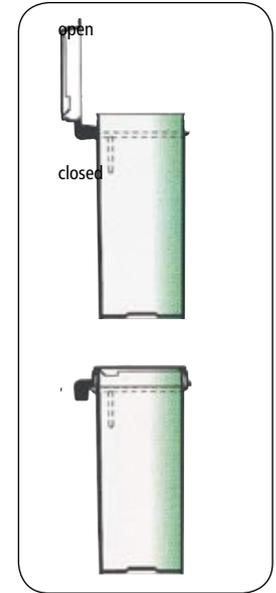
- ▶ Length 180 mm
- ▶ Sterilized, packed separately
- ▶ 10 pcs./pack

### SteriPlast Sampling Cutlery

Length mm	Price/Pack of 10 pcs.	Price/Pack of (X) packs	Article No.
180	31,95	(10) 28,40	5378-1000 N4



## SteriPlast sampling tube



with handle and patented sealing cover. Does not drip, leakproof. Opening angle of cover hinge is precisely 90° or 180°.

For sterile sampling of liquids or powders. The sample is collected directly in the sampling container and sent for analysis. Prevents cross-contamination.

- ▶ PP, transparent
- ▶ Handle length 24 cm
- ▶ Sterilized, individually packed
- ▶ 130 pcs. in pack/box

### SteriPlast sampling tube

Capacity ml	Height x dia. mm	Price/Unit	Price/Unit of (X) units	Article No.
100	80x45	2,76	(130) 2,45	6206-0101 N3



## PowderDispo

## DispoPipettes

### Cost-effectiveness versus quality

Cost-effectiveness is often only of secondary importance, as what use are samples that have been contaminated by previous samples? None at all! On the contrary, these are the most expensive samples that can be imagined, as they produce incorrect results.

Whatever – the correct cleaning of a sampler takes a lot of time and therefore money. The cleaning process is often also laborious and complicated, particularly with fatty, strongly adhesive or toxic substances.

Trained personnel should not have to carry out cleaning work but should concern themselves with taking samples correctly. This is the belief of many of our customers in the pharmaceutical, chemical, food and semi-luxury industries, completely in accordance with our motto: take samples – but do it right!

The disposable DispoSamplers from Bürkle are made of environmentally-friendly PE or PP and can be recycled without any problem.



The disposable PowderDispo is ideal for taking a cross sectional sample from within a bulk powder.

- ▶ Sample volume appr. 100 ml
- ▶ Individually wrapped
- ▶ Assembled in medical cleanroom
- ▶ HDPE
- ▶ Sample chamber length 500 mm, overall length 620 mm
- ▶ Diameter 22 mm
- ▶ Presterilized on option

	Price/Pack	Price/Pack of (X) packs	Article No.
standard	163,00	(10) 147,00	5393-5522 N3
presterilized	172,00	(10) 153,00	5393-5521 N3



The DispoPipette is both quick and easy to use. It is ideal for taking samples from low viscosity liquids.

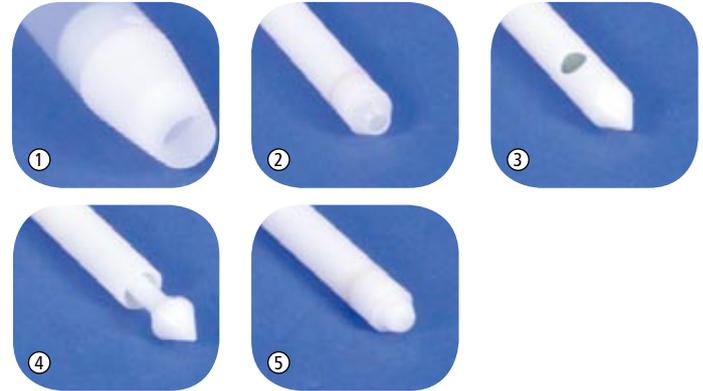
- ▶ Simple to use
- ▶ Individually wrapped
- ▶ Assembled in medical cleanroom
- ▶ HDPE
- ▶ Diameter 21 mm, length 450 mm
- ▶ Presterilized on option



1. Unwrap sampler, hold blue end of the device
2. Press your thumb onto tube until you are at sampling depth
3. Raise thumb until levels equalise
4. Press thumb onto tube to seal in the sample

	Price/Pack	Price/Pack of (X) packs	Article No.
standard	325,00	(5) 289,00	5393-5531 N3
presterilized	355,00	(5) 316,00	5393-5532 N3

# Disposable DispoSampler | collect samples – instead of wasting time with cleaning!



## Decisive benefits:

- ▶ Disposable product – unpack, take sample, recycle!
- ▶ No contamination by other samples
- ▶ No complicated, time-consuming and expensive cleaning
- ▶ Manufactured under clean room conditions (except ZoneDispo)
- ▶ Individually packed in film (ZoneDispo 20 pcs./film)
- ▶ Sterilized by gamma irradiation on option
- ▶ For liquids, bulk goods and viscous media
- ▶ Available in lengths of 50 cm or 100 cm
- ▶ Diameter 25 mm
- ▶ Made from environmentally-friendly, recyclable PE or PP

- ① AquaDispo for sampling ground water or other aqueous neutral products. AquaDispo is lowered to the required depth with the lowering cable. Simple emptying by pouring out (top) or via valve (bottom).
- ② ViscoDispo for high-viscosity liquids up to max. 100 000 mPa-s.
- ③ ZoneDispo for pourable bulk goods up to 2 mm particle size. Hole diameter 11 mm.
- ④ MicroDispo for pourable bulk goods up to 0.5 mm particle size.
- ⑤ LiquiDispo for low-viscosity liquids up to approx. 10 000 mPa-s.

## Disposable DispoSamplers

Type	Length mm	Capacity ml	Material	Price/Pack w/ 20	Price/pack of (X) packs w/ 20	Article No.
LiquiDispo	500	100	HDPE	127,90	(10) 121,70	5393-1120 N3
LiquiDispo	500	100	HDPE/sterilized	172,65	(10) 164,30	5393-1121 N3
LiquiDispo	1000	190	HDPE	158,10	(10) 149,75	5393-1130 N3
LiquiDispo	1000	190	HDPE/sterilized	210,10	(10) 199,70	5393-1131 N3
MicroDispo	500	5	HDPE	144,55	(10) 137,30	5393-2220 N3
MicroDispo	500	5	HDPE/sterilized	189,30	(10) 179,90	5393-2221 N3
MicroDispo	1000	5	HDPE	173,70	(10) 165,35	5393-2230 N3
MicroDispo	1000	5	HDPE/sterilized	225,70	(10) 215,30	5393-2231 N3
MicroDispo	500	10	HDPE	144,55	(10) 137,30	5393-2240 N3
MicroDispo	500	10	HDPE/sterilized	189,30	(10) 179,90	5393-2241 N3
MicroDispo	1000	10	HDPE	173,70	(10) 165,35	5393-2250 N3
MicroDispo	1000	10	HDPE/sterilized	225,70	(10) 215,30	5393-2251 N3

## Disposable DispoSamplers

Type	Length mm	Number of holes	Capacity ml	Material	Price/box with 20	Price/box of (X) boxes w/ 20	Article No.
ZoneDispo	500	3	100	PP	377,50	(10) 358,80	5393-4420 N3
ZoneDispo	1000	5	190	PP	503,00	(10) 478,50	5393-4430 N3
ViscoDispo	500		100	HDPE	127,90	(10) 121,70	5393-3320 N3
ViscoDispo	500		100	HDPE/sterilized	172,65	(10) 164,30	5393-3321 N3
ViscoDispo	1000		190	HDPE	158,10	(10) 149,75	5393-3330 N3
ViscoDispo	1000		190	HDPE/sterilized	210,10	(10) 199,70	5393-3331 N3

Type	Length Dia. mm	Capacity ml	Material	Price/box with 24	Price/box of (X) boxes w/ 24	Article No.
AquaDispo	914 41	1000	HDPE/PP	164,30	(10) 157,05	5393-5520 N2

**Accessories for AquaDispo**

Lowering cable 10 m	PP red	8,55	(10) 8,10	5309-0201 N4
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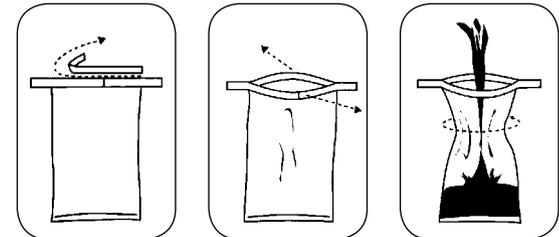
# SteriBag | the sterilized packaging bag



The multifunctional packaging/sampling bag for very different kinds of samples in chemistry, pharmaceuticals, medicine, veterinary science and foodstuffs.

The bags are made of super-polyethylene and consequently are exceptionally tear-proof and leakproof. SteriBag is also distinguished by its safe handling. When used according to instructions, parts/samples are guaranteed sterile.

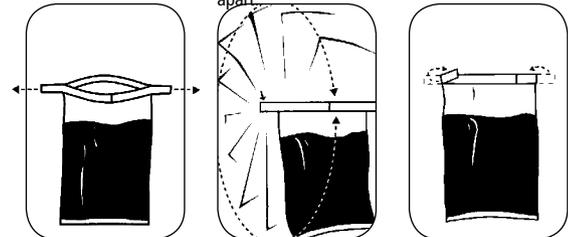
- ▶ Sterilized
- ▶ Can be labelled
- ▶ Leakproof
- ▶ Space-saving
- ▶ Choice of 6 sizes
- ▶ Transparent



1. Tear off perforated top.

2. To avoid contamination, open bag by spreading pull-tabs apart.

3. Pour sample into bag (either liquid or solid).



4. Grab both pull-tabs of the plastic band to close bag.

5. Twirl the bag 3 or 4 times around the plastic band.

6. Fold both pull-tabs toward each other (air-tight and leak-proof closure).

## SteriBag without labelling area



Capacity ml	W x L mm	Bag/Pack	Price/Pack	Price/Pack of (X) packs	Article No.
60	76x127	500	96,70	(6) 91,50	5344-0060 N3
180	76x178	500	99,85	(6) 93,60	5344-0180 N3
540	114x229	500	117,50	(6) 112,30	5344-0540 N3
720	140x229	500	131,05	(6) 123,75	5344-0720 N3
810	114x305	500	136,25	(6) 130,00	5344-0810 N3
1650	178x305	250	104,00	(12) 99,85	5344-1650 N3

## SteriBag with labelling area

60	76x127	500	105,05	(6) 99,85	5344-0061 N3
180	76x178	500	108,15	(6) 102,95	5344-0181 N3
540	114x229	500	124,80	(6) 117,50	5344-0541 N3
720	140x229	500	149,75	(6) 143,50	5344-0721 N3
810	114x305	500	144,55	(6) 137,30	5344-0811 N3
1650	178x305	250	117,50	(12) 108,15	5344-1651 N3

# SteriBag black | sterilized, light impermeable BagStation/BagOpen | simplify handling



**SteriBag black** with the same properties as SteriBag – but now with reliable protection for light-sensitive substances. The perforation of the sterilized bag is opened with the two pull-tabs. Built-in safety: the tab-ends are

sealed in plastic film to prevent skin injuries.

- ▶ Impermeable to light, sterilized, leakproof
- ▶ 0.3 mm wall thickness, ideal for abrasive powders
- ▶ Very suitable for long storage times
- ▶ Made of LDPE, black, complies with FDA and HACCP guidelines
- ▶ With practical tear-off seal
- ▶ Proven millions of times

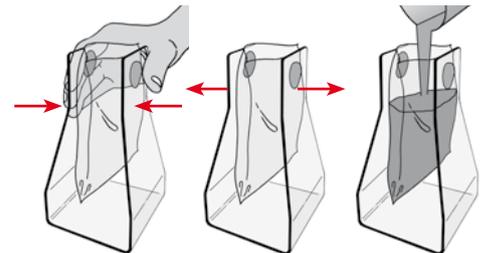
### Proof of sterility

- ▶ Free from RNase, DNase and pyrogens
- ▶ The bags are extruded at a temperature of 220 °C to 240 °C and are therefore sterile inside
- ▶ Sterilization is continually monitored by independent laboratories
- ▶ Sterilization certificate available on request



Simplify sample storage! The BagStation allows for sample batch preparation as well as sample storage. The BagStation can store up to ten bags. Bags are simply sealed using Closure Clips and are then suspended in the BagStation's support slots. The BagStation fits in most incubators and is autoclavable as well. Made of 100 % stainless steel, with rubber feet.

Simplify sample handling! BagOpen allows the lab technician to easily fill in and access the sample without the need to hold the bag open with one hand. The stand is made of polycarbonate plastic and is exceptionally strong and flexible.



Adhere sticky putty, insert bag into open BagOpen, squeeze BagOpen – release – fill sample bag

### SteriBag versions

B x L mm	Capac. ml	Bags/ Pack	Price/Pack	Price/Pack for (X) packs	Article No.
114 x229	540	500	356,95	(10) 321,15	5344-0003 N3

### BagStation/BagOpen

	Price/Unit	Article No.
BagStation		5344-1702 N3
Closure clips		5344-1701 N3
BagOpen		5344-1700 N3

## EasyScoop | protects the wrists



When sampling bulk goods with a high specific weight, conventional scoops subject the user's wrist to great stress. EasyScoop with its centrally arranged inner grip is ergonomically designed and ensures easy and safe work. As EasyScoop is considerably shorter than conventional scoops, it is easier to take samples from narrow containers.

- ▶ Made of light aluminum, bright-anodized
- ▶ In two sizes

EasyScoop				
Capac.	Length	Weight	Price/Unit	Article No.
ml	mm	g		
1500	200	325	20,90	5356-1500 N2
2000	300	575	27,55	5356-2000 N2

## Scoop AISI 304



- ▶ Sterilizable
- ▶ Robust
- ▶ Made of AISI 304 stainless steel

Scoop				
Capacity	Diameter	Price/Unit	Article No.	
ml	mm			
120	50	16,95	5370-0120 N3	
450	75	19,15	5370-0450 N3	
1000	105	22,65	5370-1000 N3	
1500	120	26,00	5370-1500 N3	
2000	150	34,10	5370-2000 N3	

## PharmaScoop



These sample scoops have been developed in order to meet the high requirements of the pharmaceutical industry, such as those contained in the FDA regulations. Like all samplers for the pharmaceutical industry, they are made of AISI 316 stainless steel without edges, crevices or undercuts in which sample residues could collect and contaminate subsequent samples. The highly polished inner and outer surfaces of the scoops therefore meet all the requirements for GMP compliance in production and sampling.

- ▶ AISI 316 stainless steel
- ▶ GMP compliance
- ▶ Highly polished
- ▶ Different sizes



PharmaScoop				
Capac.	Dia.	Length	Price/Unit	Article No.
ml	mm	mm		
10	24	44	49,70	5324-0010 N2
50	38	70	84,25	5324-0011 N2
100	50	100	114,40	5324-0012 N2
500	95	140	115,00	5324-0018 N2
750	95	215	118,55	5324-0013 N2
1000	110	235	131,05	5324-0014 N2
1250	125	195	135,20	5324-0015 N2
1700	135	230	140,40	5324-0016 N2
2500	185	215	167,45	5324-0017 N2

## Measuring scoops | precise dosing



Universal measuring scoops for measuring and filling powders and granules. Exact volume is obtained by overfilling the scoop and removing the excess so that it is level with the scoop sides.

- ▶ Good chemical resistance
- ▶ Available in 9 capacities

Measuring scoops white				
Capacity ml	L x B mm	Material	Price/Unit	Article No.
2	60 x 21	PE	0,29	9614-0002 N3
5	82 x 27	PE	0,34	9614-0005 N3
10	100 x 34	PP	0,37	9614-0010 N3
25	135 x 44	PP	0,56	9614-0025 N3
50	160 x 55	PP	0,82	9614-0050 N3
100	200 x 70	PP	1,23	9614-0100 N3
250	250 x 90	PP	2,65	9614-0250 N3
500	315 x 118	PP	4,00	9614-0500 N3
1000	385 x 134	PP	4,73	9614-1000 N3

## Volumetric spoons | 8 sizes



Volumetric Spoons available in 8 different sizes. The volume is printed on the scoop handle. Available as a set with 8 spoons (from 0.5 ml to 50 ml capacity) or separate in bags of 100 spoons.

- ▶ Blue polystyrene
- ▶ Round shape, easy emptying

Volumetric spoons 8 spoons		
Capacity ml	Price/Unit per set	Article No.
0.5 to 50 ml	6,15	5334-0001 N4
Volumetric spoons		
Capacity ml	Price/Pack (100 spoons)	Article No.
0,5	32,65	5334-0005 N4
1,0	32,65	5334-0010 N4
2,5	37,15	5334-0025 N4
5,0	38,15	5334-0050 N4
10,0	38,40	5334-0100 N4
15,0	41,00	5334-0150 N4
25,0	45,25	5334-0250 N4
50,0	70,70	5334-0500 N4
Minimum quantity 100 spoons		

## Sample spoon | novel shape



Sample-Spoon for withdrawing small sample quantities. This specially shaped spoon lets you reach almost every corner in containers and prevents samples from trickling out.

- ▶ Made of AISI 304 stainless steel
- ▶ Largely chemical resistant (not against acids and alkalis)

Sample-Spoon		
Length mm	Price/Unit	Article No.
150	11,45	5320-0150 N4
180	16,65	5320-0180 N4
210	26,20	5320-0210 N4
300	31,70	5320-0300 N4
400	34,55	5320-0400 N4

# QuickPicker



1. Push the point of QuickPicker into the sack to the desired depth.



2. Pull QuickPicker out again. Sample material is drawn out in the open, half-round scoop.



3. Tilt QuickPicker backwards, now the sample falls directly into the sampling bottle.



4. Seal the punctured sack using close-it (see pages 106f).  
5. Remove sampling bottle, screw on the cap  
6. Write the sample designation on the bottle



Unscrewable tip  
for easy cleaning

Rounded grooves  
for sure grip

Sampling bottles made of PP,  
Volume 250 ml

Stainless steel 316 (1.4401);  
electropolished surface

Volume 75 ml

Insertion depth 30 cm

Sampling directly into bottle;  
no cross-contamination

PP, transparent, scratch-proof,  
sterilizable, economically priced

QuickPicker | collects samples quickly and channels them directly into the sampling bottle



Particularly suitable for taking direct samples of bulk goods from sacks, Big-Bags or open containers and then filling them directly into original sample bottles. QuickPicker is uncomplicated to use and clean. No undercuts or edges mean no sample residues which could falsify subsequent samples. QuickPicker is delivered complete with 2 sample bottles and cleaning brush.

- ▶ Sampling depth 30 cm, diameter 25 mm
- ▶ Made of AISI 316 stainless steel, or transparent PP for aggressive powders
- ▶ Sample bottles made of PP or PET
- ▶ Removable point, easy to clean

The QuickPicker is now also available in polypropylene. Particularly suitable for aggressive chemicals, scratch-proof, sterilizable, economically priced.

**Test instruments**

Would you like to test one before making a purchase? We will be pleased to send you a test instrument on request. A small charge will be made for maintenance and cleaning work.

**Corresponds to ISTA standard for seed lengths of 10 mm (wheat, oats) and 5 mm (flax, vetches)**

QuickPicker complete with 250 ml bottle							
Type	Material	Insertion length cm	Total length cm	Capacity ml	Price/Unit	Price/Unit of (X) units	Article No.
①	AISI 316	30	50	75	173,70	(5) 157,05	5322-1300 N4
②	PP transp.	30	50	75	109,20	(5) 98,80	5322-0300 N4
	Sample bottles						
	PP, transparent			250	1,08	(134) 0,97	0371-0250 N2
	Transport case				21,75	(10) 19,65	3600-3000 N3
	Cleaning brush				32,15	(10) 30,45	5304-0060 N4

close-it control seal | sticks where adhesive tape will not adhere



With steam-lock for hermetically sealed closure. No lumping of hygroscopic powders.

Closure seal that has proven its worth millions of times.

Can be written on using a ball-point pen, pencil or felt-tip pen.

Available in 5 colors.

Closes strong as an ox, even on dusty and slightly moist sacks.

Special printing starting from just 6 rolls.

Request a free sample of these labels!

## close-it control seal | essential for sampling

Taking samples from sacks, boxes, Big-Bags, etc. with sampling lances is a common and time-proven practice. This produces holes through which easily flowing bulk goods could escape from the container. close-it prevents this in an uncomplicated manner.

close-it has been specially developed for this purpose. The label has a sandwich-type structure (aluminum/paper) and seals the container hermetically (vapor barrier). This virtually prevents hygroscopic powders from clumping together.

The label is not just used to provide a hermetic seal. It is also used for providing quality control information (sampling date, release yes/no, name of tester, etc.).

The label is available in five different colors. With printing in red, blue, green, yellow, black, neutral, without printing in white.

close-it can be written on with ball-point pen, pencil or felt-tip marker.

The rear of the label is coated with a powerful adhesive so that close-it sticks firmly to most commercial containers, even to surfaces coated with fine powder where conventional labels or adhesive tape will not adhere. close-it, the original, will even stick to slightly moist surfaces.

The close-it dispenser ensures safe storage and simple removal of the labels. A built-in marking plate allows the labels to be conveniently written on.



close-it is available in different colors

### close-it special print runs

Use close-it in an individual version with your own logo, layout or special format. Further information on page 108.



### Different sizes

close-it is available in two sizes. close-it 95 – the standard size with 95 x 95 mm and close-it Maxi with 150 x 150 mm for larger holes or longer cracks in the container.

The labels are supplied in handy rolls. The cross perforations allow each label to be separated from the roll individually.

close-it 95 is supplied with 500 labels per roll, close-it Maxi with 250 labels per roll in a practical, dustproof dispenser box.

**Please inquire large quantities**

close-it			Size 95 x 95 mm, 500 pcs./roll			Size 150 x 150 mm, 250 pcs./roll		
Type	Imprint	Color	Price/Unit	Price/Unit of (X) units	Article No.	Price/Unit	Price/Unit of (X) units	Article No.
Control seal	printed	red	54,10	(10) 48,35	5303-0012 N4	75,90	(10) 70,70	5303-1012 N4
Control seal	printed	green	54,10	(10) 48,35	5303-0016 N4	75,90	(10) 70,70	5303-1016 N4
Control seal	printed	yellow	54,10	(10) 48,35	5303-0014 N4	75,90	(10) 70,70	5303-1014 N4
Control seal	printed	blue	54,10	(10) 48,35	5303-0015 N4	75,90	(10) 70,70	5303-1015 N4
Control seal	printed	black	54,10	(10) 48,35	5303-0011 N4	75,90	(10) 70,70	5303-1011 N4
Seal	unprinted	white	54,10	(10) 48,35	5303-0002 N4	75,90	(10) 70,70	5303-1002 N4
Dispenser for close-it seals			69,70		5303-9000 N4	97,75		5303-9100 N4

close-it | with individual customer-specific special printing



close-it, the label with many faces.

## Custom-made according to the customer's specifications

The close-it control seal has many satisfied users who use close-it as a control seal, for documentation or as an informative label.

## Your individual close-it

We would be pleased to help you with the design of your own close-it. Our advertising department will support you in the realization of your own individually designed close-it labels. Use this service for your benefit and for your advertising!

## Overall shape

Round, square or other shape? There's almost everything possible – just call us for a calculation!

## Printing colors

We can print all colors. No extra costs are involved for 1-color printing. You can frequently achieve a higher degree of awareness when the text is printed in negative on a colored background, either wholly or partly.

## Typography

We will set your text in the required type font and size.

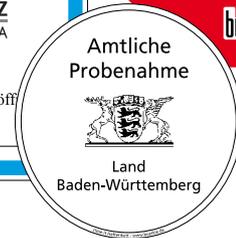
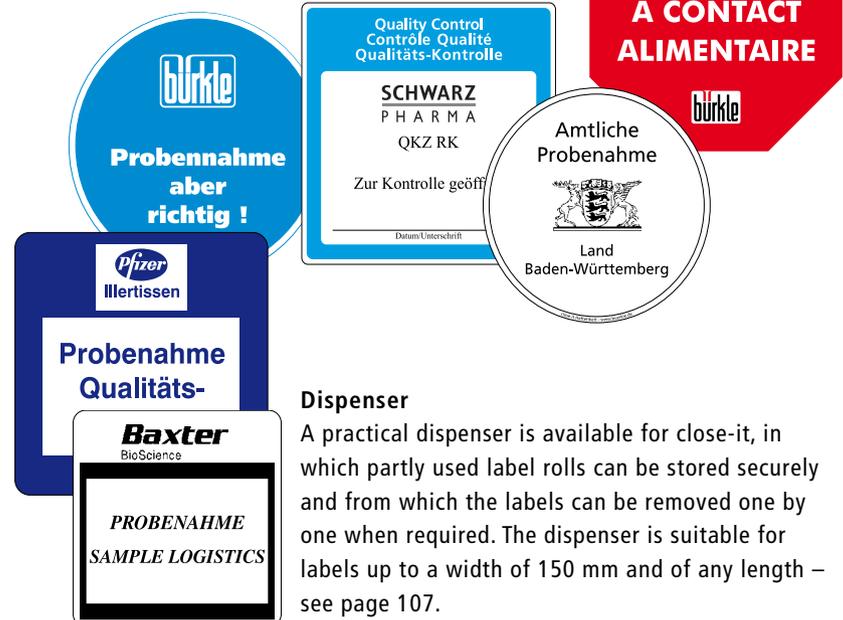
## Graphics

We will be pleased to include your logo, coat of arms or any other symbol in the layout. Just send us your graphic to be used in digital form (eps/tif/jpg), also by e-Mail.

## Finishing

close-it can be manufactured with or without carrier paper perforations.

Different numbers of close-it labels can be supplied in a single roll. Rolls with 500 labels 95 x 95 mm are standard. Rolls with 250 or 1000 labels can also be supplied.



## Dispenser

A practical dispenser is available for close-it, in which partly used label rolls can be stored securely and from which the labels can be removed one by one when required. The dispenser is suitable for labels up to a width of 150 mm and of any length – see page 107.

## close-it<sup>food</sup> | essential for sampling foodstuffs



In response to numerous requests by our customers we have now developed close-it<sup>food</sup>, a control seal with an adhesive approved for use with foodstuffs. The strength of the adhesive is almost as powerful as that of the original, the million-times proven close-it from Bürkle, and also ensures the necessary success when resealing sampling openings, as it reliably prevents products from leaking out after sampling. The adhesive complies with the European guidelines for foodstuffs. Just like the original, close-it<sup>food</sup> has a barrier layer of aluminum foil. This means that close-it<sup>food</sup> is suitable for sampling foodstuffs, pharmaceuticals, cosmetics, food additives, even frozen goods – in short, for all applications in which the product must not be contaminated by contact with the adhesive. Supplied in the proven sizes of 95 x 95 mm or 150 x 150 mm in rolls each with 500 or 250 control seals.

### close-it<sup>food</sup> size 95 x 95 mm, rolls of 500 labels

Print/color	Price/Unit	Price/Unit of (X) units	Article No.
printed/ <b>red</b>	54,10	(10) 48,35	5303-2017 N4
unprinted/ white	54,10	(10) 48,35	5303-2018 N4

### close-it<sup>food</sup> size 150 x 150 mm, rolls of 250 labels

printed/ <b>red</b>	75,90	(10) 70,70	5303-3017 N4
unprinted/ white	75,90	(10) 70,70	5303-3018 N4

Dispenser	Price/Unit	Article No.
Dispenser for labels with 95 x 95 mm	69,70	5303-9000 N4
Dispenser for labels with 150 x 150 mm	97,75	5303-9100 N4

# PowderProof® | mobile powder sampling



**Drive unit 12 volt**  
Consisting of drive unit with 2 x 12 V rechargeable batteries, transport case, quick charger 230V with mains plug. Suitable for all lances with lengths 30 cm to 120 cm.



**Spiral screws**  
Powder spiral (left) and Granule spiral (right) can be easily interchanged.



The **bayonet closure** means that cleaning the lance and spirals is even easier than before.  
1. Loosen bayonet connection  
2. Remove lance  
3. Remove spiral – ready!



The **bottle basket** is used to attach a sample bottle to the lance.



The sample bag is attached to the lance with a clip.



Horizontal and vertical use with different containers

For powders and granules

Lance and drive unit joined by a bayonet connection

Various lance lengths from 30 to 120 cm.

One instrument – many applications



Medium-contacting parts made of AISI 304 stainless steel

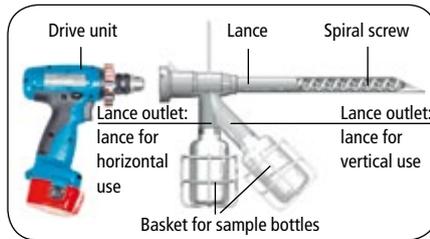
# PowderProof® | the rapid and comfortable powder sampler

Quality assurance starts with the inspection of incoming goods! A multi-layer sample of bulk goods no longer presents a problem with PowderProof®, the sampler for powders and granules. PowderProof® is the practically proven professional solution for mobile sampling of powders and granules. Different lances and spiral screws can be attached to the robust drive unit and exchanged without any problems. This modular design makes PowderProof® a versatile instrument for sampling powders and granules from drums, Big-Bags or sacks.

Safe and reliable sampling is made even easier with useful special accessories, such as basket-enclosed bottles, sample bags and close-it control seals.

**New drive unit!**

PowderProof® is supplied complete with drive unit and charger, 2 rechargeable batteries and case, lance, spiral screw and cleaning brush. Powder and granule spirals of suitable lengths can be interchanged as required.



## Operation

To take a sample, the lance is pushed into the sack/container with the spiral screw rotating. The powder or granules are immediately transported through the hollow lance and filled directly into a sample bag or bottle at the lance outlet. Any excess sample remaining in the lance is returned to the sack by reversing the spiral screw direction.

- ① PowderProof with lance for horizontal use, such as sampling from sacks
- ② PowderProof with lance for vertical use, such as sampling from open containers such as drums, tanks or Big-Bags



Case available as accessory

### PowderProof with spiral screw for powders up to 2 mm dia.

Description	Lance	Length cm	Price/Unit	Article No.
PowderProof®	horizontal	30	1375,90	5302-0302 N2
PowderProof®	vertical	60	1479,90	5302-0602 N2
PowderProof®	vertical	90	1605,75	5302-0902 N2
PowderProof®	vertical	120	1718,10	5302-1202 N2

### PowderProof with spiral screw for granules from 2 up to 4 mm dia.

Description	Lance	Length cm	Price/Unit	Article No.
PowderProof®	horizontal	30	1375,90	5302-0301 N2
PowderProof®	vertical	60	1479,90	5302-0601 N2
PowderProof®	vertical	90	1549,60	5302-0901 N2
PowderProof®	vertical	120	1718,10	5302-1201 N2

### Spiral screws

Description	Length cm	Price/Unit	Article No.
Spiral screw for powders up to 2 mm dia.	30	201,75	5302-0312 N2
Spiral screw for powders up to 2 mm dia.	60	219,45	5302-0612 N2
Spiral screw for powders up to 2 mm dia.	90	241,30	5302-0912 N2
Spiral screw for powders up to 2 mm dia.	120	260,00	5302-1212 N2
Spiral screw for granules from 2 up to 4 mm dia.	30	201,75	5302-0311 N2
Spiral screw for granules from 2 up to 4 mm dia.	60	219,45	5302-0611 N2
Spiral screw for granules from 2 up to 4 mm dia.	90	241,30	5302-0911 N2
Spiral screw for granules from 2 up to 4 mm dia.	120	260,00	5302-1211 N2

### Accessories

Description	Price/Unit	Article No.
Basket made of stainless steel, approx. 80 mm dia., fits to sample bottles 500 ml	63,45	5302-2050 N3
Sample bottles made of PE 500 ml suitable for basket	2,35	0318-0500 N2
Sample collecting bags PE, 120 mm x 170 mm, 100 pcs./pack	7,80	2348-0005 N2
Transport case for sampling lances up to 90 cm length	80,10	3600-2120 N4

# Zone sampler | for all kinds of bulk goods

### Color coding

The colored push-in buttons (sterilizable) supplied as standard can be used to identify Multi-samplers and Uno-samplers to avoid mix-ups.



Easy to clean,  
removable tip

Ultrapure materials: AISI 316  
stainless steel and PTFE

4 lengths, from  
55 cm to 250 cm

Color coding for Multi-sam-  
pler and Uno-sampler

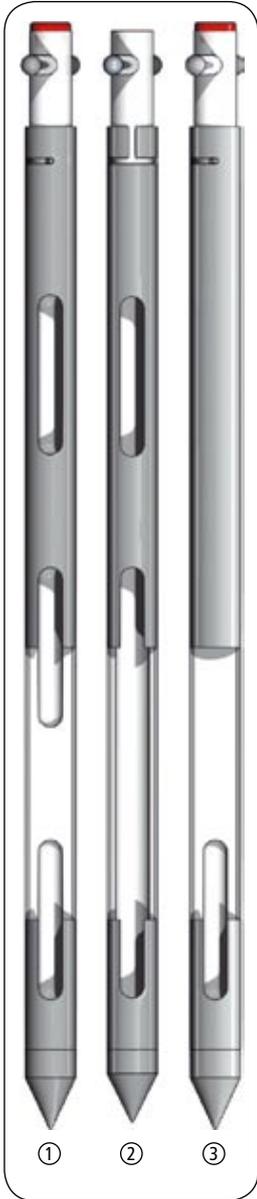
For the finest powder and coarse  
grains such as corn or nuts

For taking samples of bulk goods  
from sacks, drums, mixing  
containers, Big-Bags, silos, tanks

Available as Multi-sampler,  
Uno-sampler, All-layer sampler  
and Jumbo sampler.

Quality  
Control

## Zone sampler | for bulk goods, according to DIN 53 242 for fast cross-section samples



Three versions of the Zone Sampler are available for different sampling tasks.

- ① Multi-sampler with several closed chambers for multi-samples from several predefined sample depths.
- ② All-layer sampler and Jumbo sampler with open inner tube, no chambers, for cross-section samples through all layers of the sample. Simple emptying through open end of sample tube. The Jumbo sampler with a tube diameter of 50 mm is ideal for larger grain sizes and amounts.
- ③ Uno-sampler with one closed chamber, for a targeted sample from a specific sample depth.

### Advantages

- ▶ Smallest possible gap between inner and outer tube
- ▶ Easy cleaning, removable tip
- ▶ Color coding (Multi- and Uno-samplers)
- ▶ Ultrapure materials: AISI 316 stainless steel/PTFE
- ▶ 4 lengths from 55 to 250 cm
- ▶ Outstanding finishing, robust execution

### Operation

1. Turn handle to close chamber.
2. Push in sampler to required depth.
3. Turn handle to open chamber, sample flows into chamber.
4. Turn handle to close chamber again.
5. Pull out sampler.
6. Empty chamber onto Quali-Paper.
7. Close container opening with close-it (see pages 106 ff).

### Bürkle zone samplers

are used for sampling all types of bulk goods. The great advantage of the zone sampler is that cross-sectional samples can be taken from all the layers of a container.

The Zone samplers can take samples from a wide range of bulk goods, from the finest powders up to coarse grains such as corn or nuts.

The Zone samplers are available in 4 different lengths. 55 cm (specially suitable for sacks), 85 cm (specially for drums and mixing containers), and 150 cm and 250 cm for Big-Bags, silos and tanks. Special lengths are available on request.

Safe and reliable sampling is made even easier with useful special accessories such as sealing sleeves, Quali-Paper, cleaning brushes, emptying device and close-it control seals.



close-it control seals for closing punctures in sacks or Big-Bags (see page 106 ff).

# Zone samplers | for all kinds of bulk goods, according to DIN 53 242



- ① Multi-sampler made of anodized aluminum, with closed chambers, color coding system, 25 mm dia.



- ② Multi-sampler made of stainless steel 316, with closed chambers, color coding system, 25 mm dia.



- ③ Multi-sampler made of stainless steel 316/PTFE, same execution as 5328-1 (AISI 316 Multi sampler), but lower weight with PTFE collection chambers. With color coding system, 25 mm dia. Outer tube stainless steel, collection chambers PTFE.



- ④ Uno-sampler made of stainless steel 316/PTFE, with closed chamber, color coding system, 25 mm dia. Outer tube stainless steel, collection chamber PTFE.



- ⑤ All-layer sampler  
 a) made of anodized aluminum, with open inner tube and large collection volume, without chambers, 25 mm dia.,  
 b) made of AISI 316 stainless steel, with open inner tube and large collection volume, without chambers, 25 mm dia.

① Multi-sampler Aluminum, 25 mm dia.				DIN	ISO 1221*	ISO 3163	ISO 3164
Total length mm	Sampling depth mm	Number of chambers	Chamber capacity ml	Price/Unit	Article No.		
550	430	3	14	147,70	5317-1058 N4		
850	710	3	17	164,30	5317-1085 N4		
1500	1355	5	17	212,15	5317-1150 N4		

② Multi-sampler V4A (AISI 316), 25 mm dia.				DIN	ISO 1221*	ISO 3163	ISO 3164
Total length mm	Sampling depth mm	Number of chambers	Chamber capacity ml	Price/Unit	Article No.		
550	430	3	14	482,55	5316-3055 N4		
850	710	3	17	516,90	5316-3085 N4		
1500	1355	5	17	654,15	5316-3150 N4		

③ Multi-sampler V4A (AISI 316)/PTFE, 25 mm dia.				DIN	ISO 1221*	ISO 3163	ISO 3164
Total length mm	Sampling depth mm	Number of chambers	Chamber capacity ml	Price/Unit	Article No.		
550	430	3	14	314,10	5316-0055 N4		
850	710	3	17	352,55	5316-0085 N4		
1500	1355	5	17	514,80	5316-0150 N4		

④ Uno-sampler V4A (AISI 316)/PTFE, 25 mm dia.				DIN	ISO 1221*	ISO 3163	ISO 3164
Total length mm	Sampling depth mm	Number of chambers	Chamber capacity ml	Price/Unit	Article No.		
550	430	1	17	320,30	5316-1055 N4		
850	710	1	17	358,80	5316-1085 N4		
1500	1355	1	17	525,20	5316-1150 N4		

⑤ All-layer-sampler Aluminum, 25 mm dia.*				DIN	ISO 1221*	ISO 3163	ISO 3164
Total length mm	Sampling depth mm	Number of chambers	Chamber capacity ml	Price/Unit	Article No.		
550	430	3	70	133,10	5317-2055 N4		
850	710	3	130	144,55	5317-2085 N4		
1500	1355	5	260	188,25	5317-2150 N4		

⑤ All-layer-sampler V4A (AISI 316), 25 mm dia.*				DIN	ISO 1221*	ISO 3163	ISO 3164
Total length mm	Sampling depth mm	Number of chambers	Chamber capacity ml	Price/Unit	Article No.		
550	430	3	70	442,00	5316-2055 N4		
850	710	3	130	509,60	5316-2085 N4		
1500	1355	5	260	613,60	5316-2150 N4		

\*Corresponds to ISTA standard for seed lengths of 10 mm (wheat, oats) and 5 mm (flax, vetches).

# Zone samplers | for all kinds of bulk goods, according to DIN 53 242



- ① Jumbo sampler made from anodized aluminum,  
 a) with open inner tube and large collection volume  
 b) with PTFE separators.



⑦ Emptying device stainless steel. Easy and clean emptying of the sampler. See page 116



⑧ Sealing sleeves in PP, sterilizable, used to close individual chambers when filling, emptying or transporting 25 mm dia. zone samplers. The sealing sleeves are easy to slide on and automatically clip into position. Length 150 mm.



⑨ Quali-Paper, for emptying the collected sample onto. Quali-paper is free from fibers and lint. Size 100 x 25 cm. Pack of 50 sheets.



⑩ Cleaning brushes for thoroughly cleaning 25 mm or 50 mm dia. zone samplers (accessory).

① Jumbo-sampler Aluminum, 50 mm dia.				DIN	ISO 121*	Y	3
Total length mm	Sampling depth mm	Number of chambers	Chamber capacity ml	Price/Unit	Article No.		
a) 850	710	3	880	329,70	5319-1085 N4		
a) 1500	1355	5	1700	466,95	5319-1150 N4		
a) 2500	2355	7	2900	527,30	5319-1250 N4		
b) 850	710	3	390	509,60	5319-2085 N4		
b) 1500	1355	5	650	599,05	5319-2150 N4		
b) 2500	2355	7	910	715,50	5319-2250 N4		

Accessories		
Description	Price/Unit	Article No.
⑦ Emptying set <b>NEW</b>	258,95	5317-0030 N4
⑧ Sealing sleeves, 25 mm dia., 3 sleeves	19,55	5317-0011 N4
Sealing sleeves Jumbo, 50 mm dia., 3 sleeves	25,50	5317-0010 N4
⑨ Quali-Paper, 50 sheets	25,25	5317-0001 N4
⑩ Tube cleaning brush, 25 mm dia. made of PVC/stainless steel		
Length 40 cm	32,15	5304-0040 N4
Length 60 cm	32,15	5304-0060 N4
Length 80 cm	32,15	5304-0080 N4
Length 100 cm	32,15	5304-0100 N4
Tube cleaning brush, 50 mm dia.		
Length 100 cm	35,25	5304-5100 N4
Length 300 cm	71,75	5304-5300 N4



## Emptying device | essential when working with zone samplers



Take a sample, place the zone sampler on the emptying device, push the funnel to the height of the collecting chamber, place the sample container (e.g. 6214-0060, see page 136) beneath it, turn the zone collector with its chamber open – ready!

Even emptying very long zone collectors, for example the Jumbo, becomes child's play, as two emptying devices can be coupled together with only a few movements.

- ▶ Stainless steel V2A
- ▶ Length 97,5 cm
- ▶ With 3 funnels, further funnels available as accessories



① Several emptying devices can be coupled together with only a few movements and minimal use of tools

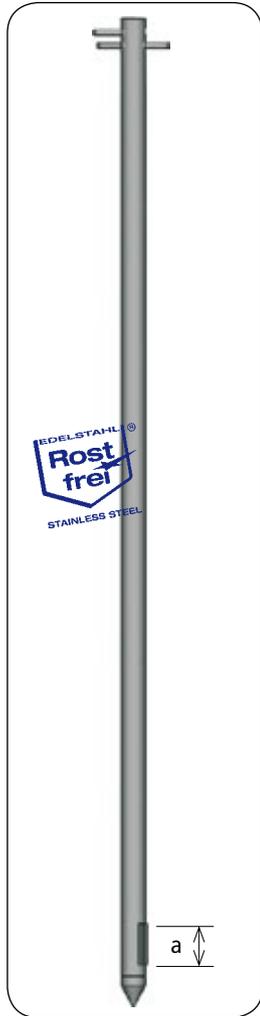
② Important accessories for sampling: close-it und close-itfood – see page 106 ff

### Emptying device

**NEW**

	Price/Unit	Article No.	
	258,95	5317-0030 N2	
<b>Accessories</b>			
	Price/Unit	Price/Unit of (X) units	Article No.
Funnel	40,40	(5) 36,60	5317-0033 NX
Sample tube 60 ml	0,51	(100) 0,41	6214-0060 N3
close-itfood printed, red, 95 x 95 mm	54,10	(10) 48,35	5303-2017 N4
close-itfood unprinted, white, 95 x 95 mm	54,10	(10) 48,35	5303-2018 N4
close-itfood printed, red, 150 x 150 mm	75,90	(10) 70,70	5303-3017 N4
close-itfood unprinted, white, 150 x 150 mm	75,90	(10) 70,70	5303-3017 N4

## Scratcher | for cohesive, non-pourable substances

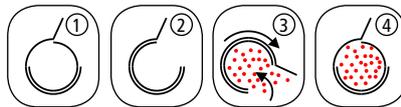


Scratcher has been developed specially for sampling of cohesive, caking, non-flowing substances.

- ▶ Stainless steel 316 (1.4401)
- ▶ Electropolished
- ▶ Total length 1000 mm

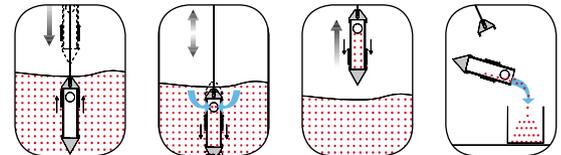
### Operation

1. Screw closed Scratcher into bulk material with chamber closed.
2. At the required sampling depth open the sample chamber by rotating the inner tube.
3. Turn Scratcher through 360° in bulk material; the scraper transfers the caked material into the sample chamber.
4. Close sample chamber and remove Scratcher.



Scratcher					
Description	Container volume ml	Dimension of a (mm)	Scoop dia. mm	Price/Unit	Article No.
Scratcher 5	5	22	25	740,00465,90	5347-0005 N2
Scratcher 10	10	45	25	775,00	5347-0010 N2
Scratcher 25	25	110	25	812,00465,90	5347-0025 N2

## SiloPicker | sampling from great depths



The SiloPicker makes it possible to take samples of bulk goods at depths up to 3.5 meters. The insert depth depends on the density of the bulk goods. Standard length = 1 m.

- ▶ Oval filling opening 16 x 26 mm

### Operation:

Insert SiloPicker into the bulk goods. When this is done, the closure thimble automatically closes the collection container. When the sampling depth has been reached, the sampling container is filled. Pull out SiloPicker and empty it.

### SiloPicker complete

Container capacity max. ml	Container dia. mm	Rod length mm	Price/Unit	Price/Unit of (X) units	Article No.
100	46	1000	297,45	(5) 267,30	5340-1100 N4
Extension rod 50 cm			40,85	(5) 37,15	5380-0508 N4
Extension rod 100 cm			47,40	(5) 42,75	5380-1008 N4
Handle			48,15	(5) 47,40	0006-8112 N4
Sample container 100 ml			200,70	(5) 180,95	5340-0100 N4
Transport case			80,10	(10) 76,95	3600-2120 N4

## Zone sampler Spiralus | for coarse-grained bulk goods

## Tubus | the sampler for bulk goods



Ensures accurate zone sampling from all layers of the bulk goods. The spiral arrangement of the sampling slits means that these are opened one after the other from bottom to top. In this way the lowest opening is filled first and then those above it in sequence until the complete Spiralus has been filled. The shape of the sampling slits prevents seeds from being cut up,

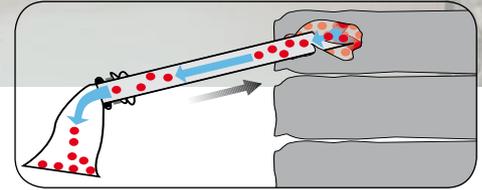
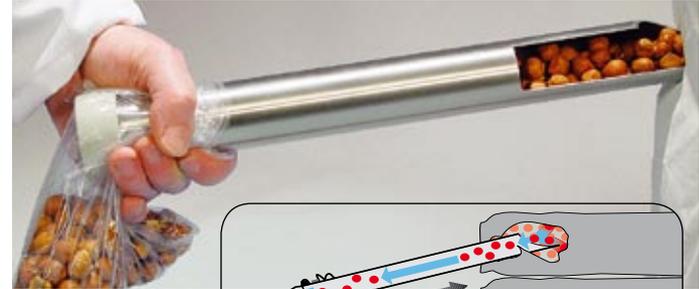
which mean that the original broken seed fraction is not increased. Spiralus ensures an excellent all-layer sample.

- ▶ Made of anodized aluminum
- ▶ Simple cleaning
- ▶ 38 mm diameter
- ▶ Available in 2 lengths
- ▶ Low weight



### Applications

Spiralus is particularly suitable for sampling coarse-grained bulk goods, seeds and pellets at locations such as soil heaps, warehouses, trucks, freight cars, etc.



Simple, inexpensive sampler for free flowing bulk goods up to approx. 1 cm diameter. This makes it possible, for example, to remove hazel nuts, blends of tea, grain or similar items from large sacks.

### Operation

Insert Tubus into a sack to the desired sampling depth, while keeping the collection tube closed using your hand. When you take away your hand, the sample flows directly through the open tube into the container or sampling bag beneath it.

- ▶ Choice of 2 lengths, 40 cm and 80 cm
- ▶ Also for coarse-grained bulk goods
- ▶ AISI 316 stainless steel
- ▶ Corresponds to ISTA standard for seed lengths of 20 mm (beans, corn) and 10 mm (wheat, oats).

### Zone sampler Spiralus

Total length cm	Number of sampling slots	Weight kg	Sample volume ca. ml	Price/Unit	Article No.
145	8	1,4	770	333,85	5318-0145 N4
200	8	2,0	1100	448,25	5318-0200 N4

### Accessories

Description	Price/Unit	Article No.
Tube cleaning brush, 50 mm dia., length 100 cm	35,25	5304-5100 N4

### Tubus

Length cm	Diameter mm	Price/Unit	Price/Unit of (X) units	Article No.
40	40	82,15	(10) 79,00	5382-0040 N4
80	40	107,10	(10) 97,75	5382-0080 N4

## Milky | sampling lance acc. to EN ISO 707 <sup>1)</sup>



Milk powder collector made of AISI 316 stainless steel, sterilizable. Developed especially for milk powder samples, conforms to standards of DIN and IDF (Int. Dairy Federation). The collector is inserted into bags or casks and the sample is removed using a semi-circular profile lance.



**close-it & close-itfood**  
control seal ensures the tight sealing of punctured sacks/bags.  
See page 106 ff.

- ▶ Insertion depth  
385 mm, total length  
480 mm
- ▶ Outer diameter approx. 28 mm
- ▶ Now made of AISI 316 stainless steel

<sup>1)</sup> DIN 10327, IDF 50C: 1995

## SampleSafe seal | secure your samples



### Secure your retention samples

Retention samples must be protected against adulteration and clearly identified. Bottles with sealing eyelets should therefore be sealed with SampleSafe seals. The seals are made from tear-resistant plastic and are provided with an additional marking field. The 7-digit serial number identifies the seals unambiguously.

The seal thread diameter is 2 mm so that SampleSafe seals can also be used with small eyelets and slits.

When the seal thread is passed through the opening in the seal a stainless steel safety spring protects it against manipulation.

- ▶ Unambiguous identification by embossed 7-digit number.
- ▶ 10 seals per strip, numbered in sequence.
- ▶ 100 seals (10 strips) per pack/box.
- ▶ Thread 2 mm dia., suitable for small eyelets and slits.
- ▶ Protection against manipulation by stainless steel safety spring.
- ▶ Standard color is red, other colors on request.

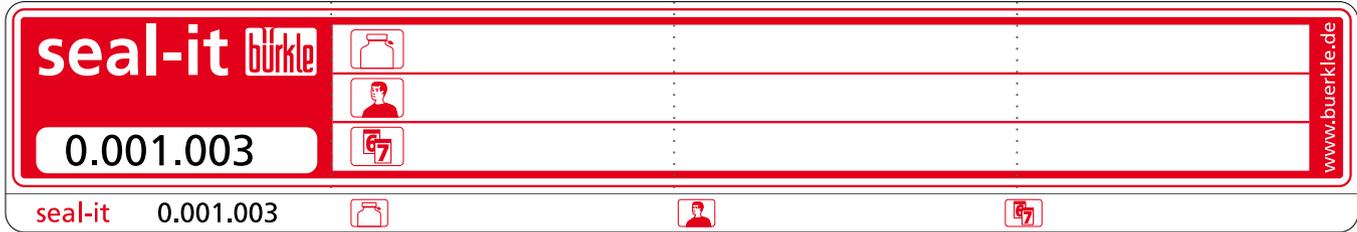
Bottles which can be sealed are shown on pages 136, 148 and 168

Milky	Price/Unit	Price/Unit of (X) units	Article No.
Sample capacity ml			
150	130,00	(5) 115,45	5321-0300 N4

SampleSafe seals with consecutive numbers, supplied in strips of 10 seals each					
Thread length mm	Thread dia. mm	Color	Price/1 pack* (100 seals)	Price/1 Pack* (10 x 100 seals)	Artikel-Nr.
290	2	red	59,30	56,15	5399-2902 N2

\*1 pack contains 10 strips of 10 seals each

# seal-it | security seal for retention samples and tamper-proof packs



seal-it – the seal label for all conventional containers, original label size 178 mm x 30 mm



Retention samples are kept to provide a sample for comparison at a later date. The unambiguous proof that the retention sample is identical with the original sample is only possible with clearly marked and sealed containers. However, sealing is frequently not possible unless eyelets are present.

seal-it provides the solution! The seal-it self-adhesive label sticks to all conventional containers. Thanks to its unbelievable adhesive power it cannot be removed. If a container opening is closed with seal-it then the container cannot be opened without destroying the seal-it label. seal-it is additionally provided with several cross perforations which immediately tear when manipulated like an automobile vignette.

seal-it can be used so securely seal bottles, sample bags, sacks, specimen bags, envelopes, etc. – in principle any type of container. The brilliant red color signals the importance of the seal. The aluminum foil adapts seal-it to any container shape. The white marking field on seal-it can be written on with all conventional writing tools with, for example, type of sample, sampling date, name of operator, etc.

- ▶ Security by unambiguous identification with 7-digit consecutive number
- ▶ Additional control label with same number for documentation
- ▶ 500 seal-it labels per roll numbered in sequence
- ▶ Label 178 mm long, 30 mm wide
- ▶ Tear-off perforation for each label
- ▶ Also custom-made labels available



seal-it is unambiguously identified by a unique, 7-digit number. This number is printed on both the seal label and on an additional control label that can be stuck to the accompanying documents.

### seal-it labels Roll with 500 labels, 7-digit consecutive number, numbered in sequence

Length mm	Width mm	Color	Price/1 Roll (500 labels)	Price/5 Rolls (2500 labels)	Article No.
178	30	red	<b>111,30</b>	107,10	5399-0003 N4

# Eagle | probe for safely sampling bulk goods in silos, bunkers and stock piles



The easily dismantlable collection chamber.



Empty the collection chamber.



- ▶ For large silos
- ▶ Depth down to 10 m
- ▶ Semi-automatic
- ▶ Sample chamber volume 1.0 l
- ▶ Min. opening size 15 x 15 cm
- ▶ Weight 7.0 kg
- ▶ 90 cm long, 120 cm dia. (unfolded)
- ▶ 12 V DC/rechargeable battery

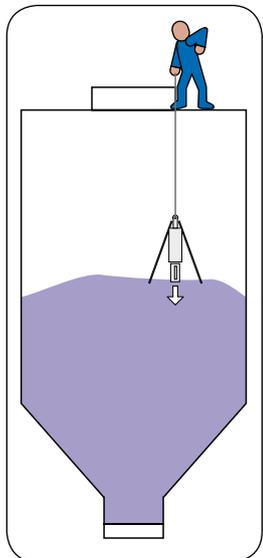
### Operation

Eagle is lowered into the silo by cable – down to depth of 10 m. As soon as Eagle reaches the sampling location it automatically bores into the sample to a depth of 50 cm and collects about 1.0l sample.

With its cutters on the bottom of the sample chamber, Eagle can penetrate even crusted surfaces without any problems. The scrapers on the side of the sample chamber allow samples to be taken from caked products (e.g. washing powders, etc.).

Once the sample depth has been reached, the sample chamber is closed automatically and Eagle can be removed again.

After sampling, the sample container can be removed easily and emptied.



Sampling down to a depth of 10 m.

It is often very difficult to take a sample from a partly filled silo. Sampling with a beaker on the end of a long rod is not only wearisome and time consuming, it is sometimes impossible to obtain a sample. Eagle works semi-automatically and can be used down to a depth of 10 m without any problems. The support legs are fold up so that Eagle can access the silo contents through openings that are only 150 x 150 mm.



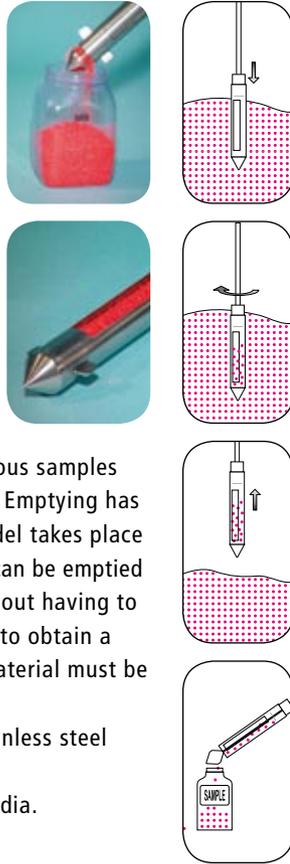
Eagle collects the sample.



Eagle was developed together with an international detergents company in Düsseldorf in order to be able to take samples from large silos and bunkers in a simpler, quicker and more professional manner.

Eagle		
Description	Price/Unit	Article No.
Semi-automatic sampler for bulk goods complete with 10 m cable, battery and charger	1605,75	5300-1000 N2

## EasySampler | easy to empty



New type of sampler for taking numerous samples from bulk materials quickly and easily. Emptying has been greatly simplified and in this model takes place via the tip. The advantage: the sample can be emptied directly into the sample container without having to disassemble the EasySampler, in order to obtain a mixed sample for instance. The bulk material must be free flowing or self-flowing.

- ▶ Completely made from AISI 316 stainless steel
- ▶ For free-flowing bulk materials
- ▶ For sampling openings from 52 mm dia.
- ▶ Sample chamber length 500 mm
- ▶ Autoclavable

EasySampler has been developed in cooperation with an international chemical concern based in Ludwigshafen, Germany

EasySampler						
Tube dia. mm	Total length mm	Capacity ml	Price/Unit	Article No.		
32	1045	200	406,65	5360-1000 N2		

## All-layer scratcher



Special sampler for powders and granules that do not flow freely. The sample is transferred to the closable inner tube using a scraper. Sliding PTFE separators are used to divide the inner tube into different zones. The separators also prevent the sample from being mixed.

- ▶ For caked bulk materials
- ▶ Variable zones thanks to sliding PTFE separators
- ▶ Made from AISI 316 stainless steel and PTFE
- ▶ Length 1000 mm, diameter 25 mm
- ▶ Autoclavable

Scratcher with inner tube						
Dia. mm	Length mm	Price/Unit	Article No.			
25	1000	300,55	5351-1000 N2			
Cleaning brush						
	Length mm	Price/Unit	Article No.			
	1000	32,15	5304-0100 N4			

# MicroSampler | useful for taking small samples, sterilizable

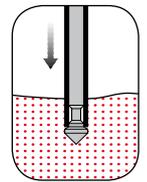
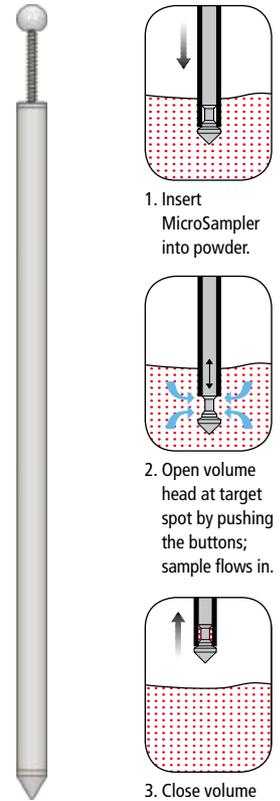


Specially designed for removal of the smallest quantities of powders.

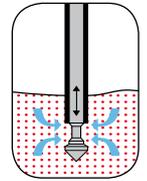
Sample quantities of 0.2 ml, 0.5 ml, 1.0 ml, 2.0 ml, 5.0 ml and 10 ml can be taken at varying depths from sacks or containers in a clean, fast and simple way.

The head of the MicroSampler is interchangeable. This enables heads with different volumes to be used.

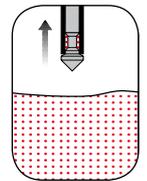
- ▶ Exact sampling point can be chosen
- ▶ Different volumes and lengths available
- ▶ Conforms to GMP/FDA
- ▶ Head removable, easy cleaning
- ▶ Made of AISI 316 stainless steel



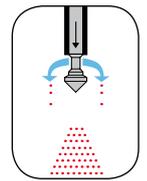
1. Insert MicroSampler into powder.



2. Open volume head at target spot by pushing the buttons; sample flows in.



3. Close volume head; the sample is collected.



4. Withdraw the lance, open volume head again, and remove the sample.

Please order lance and head separately!

MicroSampler 12,5 mm dia., without head			
Length cm	Tube dia. mm	Price/Unit	Article No.
55	12,5	179,90	5307-1055 N4
85	12,5	199,70	5307-1085 N4
120	12,5	217,35	5307-1120 N4

MicroSampler 25 mm dia., without head			
Length cm	Tube dia. mm	Price/Unit	Article No.
55	25	234,00	5307-2055 N4
85	25	252,70	5307-2085 N4
120	25	269,35	5307-2120 N4

Heads fit MicroSampler with 12,5 mm dia.			
Tube dia. mm	Volumen ml	Stückpreis	Artikel-Nr.
12,5	0,2	54,10	5307-0102 N4
12,5	0,5	54,10	5307-0105 N4
12,5	1,0		5307-0110 N4

Heads fit MicroSampler with 25 mm dia.			
Tube dia. mm	Volumen ml	Stückpreis	Artikel-Nr.
25	2,0	73,85	5307-0202 N4
25	5,0	73,85	5307-0205 N4
25	10,0	73,85	5307-0210 N4



Pneumatic sledge hammer

Immersion depth up to 2 meters

Sample chamber  
250 – 1000 ml, 75 mm dia.

Compressed air connection  
for truck compressed air supply

Sample chamber closes  
automatically at target



## PowerSampler | through thick and thin with compressed air

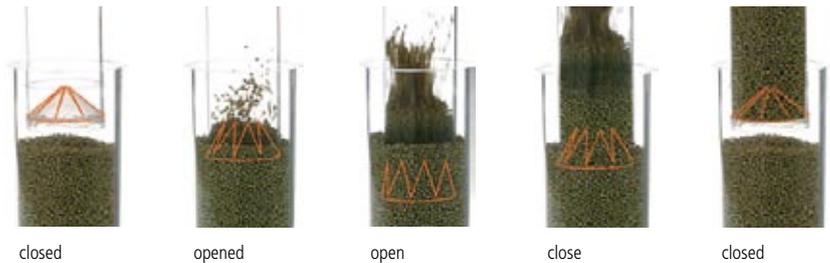
Taking samples from high-density bulk goods requires a lot of time and energy. This means that manual samplers are not always ideal. The compressed air powered PowerSampler closes this gap in an optimal way. Like a compressed air sledge hammer, it drives itself into the bulk goods. This means that the operator can fully concentrate on the correct sampling process, instead of being distracted by the sweaty work. Depths down to 2 m are no problem for the PowerSampler.

The sample continuously flows through the chamber lock at the end of the sample chamber. When the target has been reached, a representative cross-section is present in the sample chamber, which then closes automatically.

The PowerSampler can be used for both pourable and caked bulk goods: Cement can be sampled just as easily as moist sand, flour or loose plastic granules. Ideal for silo vehicles, mixing containers, BigBags in the construction industry, chemicals, pharmaceuticals and in the food and semi-luxury industries.

The compressed air supply for the PowerSampler is taken from the in-house supply or the truck's own compressed air supply. The required pressure is 6 bar. The sample inlet caps have to be replaced after each use. The AISI 304 stainless steel collection lance can be quickly removed from the compressed air hammer.

Sample chamber capacities available are 250 ml, 500 ml and 1000 ml, their diameter is 75 mm. Standard equipment includes 10 m compressed air line and 25 sample chambers.

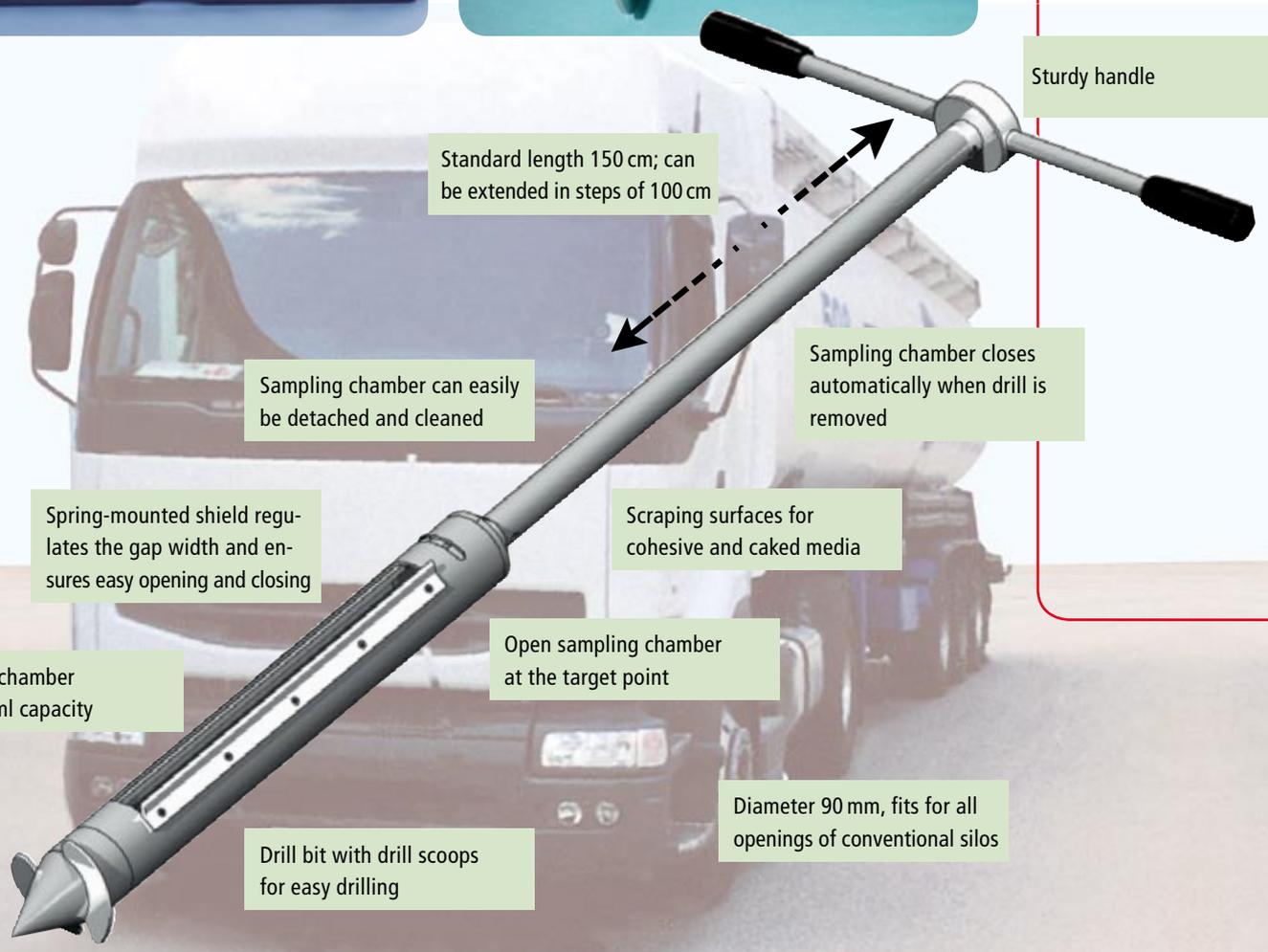


PowerSampler			
Length cm	Max. chamber capacity ml	Price/Unit	Article No.
100	250	864,65	5395-0250 N4
100	500	881,35	5395-0500 N4
100	1000	899,15	5395-1000 N4
200	250	881,35	5395-2250 N4
200	500	899,15	5395-2500 N4
200	1000	915,80	5395-2000 N4
	Sample chambers PP, pack of 25 pieces	11,15	5395-0010 N4
	Lance with sample chamber		
100	250	439,55	5395-0251 N4
100	500	466,30	5395-0501 N4
100	1000	486,30	5395-1001 N4
200	250	466,30	5395-2251 N4
200	500	488,55	5395-2501 N4
200	1000	497,45	5395-2001 N4
	Transport case for PowerSampler 5395-1000	80,10	3600-2120 N4



The collection lance can be removed from the pneumatic drive unit with a single action.

# SiloDrill



Sturdy handle

Standard length 150 cm; can be extended in steps of 100 cm

Sampling chamber can easily be detached and cleaned

Sampling chamber closes automatically when drill is removed

Spring-mounted shield regulates the gap width and ensures easy opening and closing

Scraping surfaces for cohesive and caked media

Sampling chamber with 400 ml capacity

Open sampling chamber at the target point

Diameter 90 mm, fits for all openings of conventional silos

Drill bit with drill scoops for easy drilling

## SiloDrill | for silo sampling

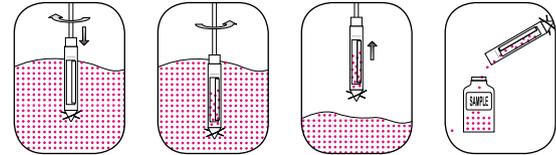
Specially developed for taking samples from silo vehicles. If bulk goods are transported over long distances (in trucks, freight cars), separation may occur. If a sample is then taken from the surface only it will not be representative. The SiloDrill can take samples from deeper layers.

- ▶ Simple handling
- ▶ New: Made of AISI 316 stainless steel

### Operation

The SiloDrill is screwed manually into the bulk material and only opened when the required sampling depth has been reached. Extension rods are available for depths down to 3 m.

The SiloDrill is not only suitable for silo vehicles, it can also be used in a similar manner in various bulk material containers in the pharmaceutical, chemical, foodstuffs and semi-luxury goods sectors, etc.

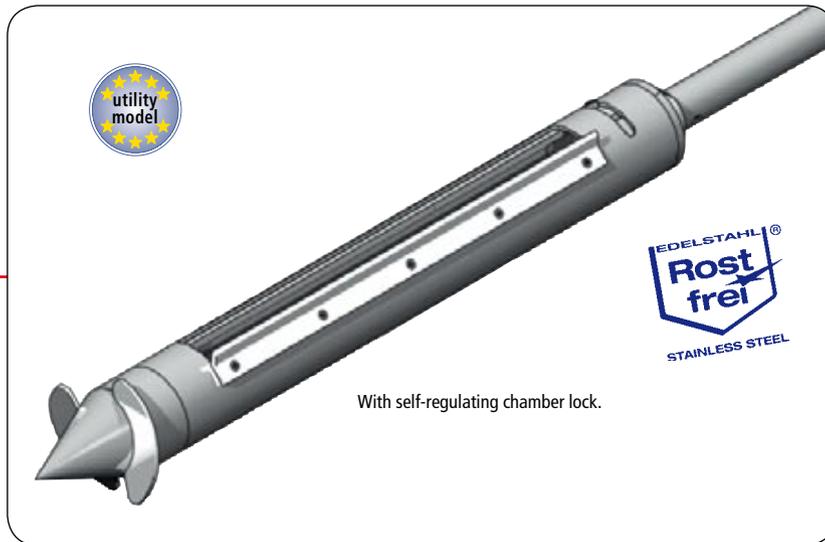


1. Drill in Silo Drill while the sampling chamber is closed.

2. Open sampling chamber at the target point and collect the sample.

3. Close the chamber and remove the drill.

4. Empty the sample.



#### SiloDrill aluminum

Total length mm	Spirals dia. mm	Sampl. chamb. dia. mm	Capacity ml	Price/Unit	Article No.
1500	90	40	400	364,00	5301-1000 N4

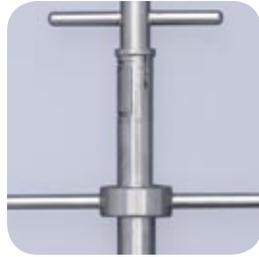
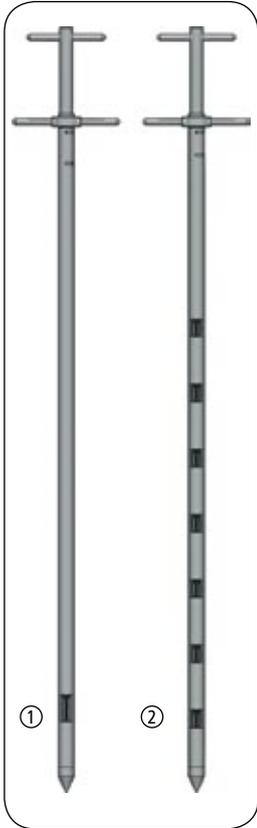
#### SiloDrill stainless steel

1500	90	40	400	2236,00	5301-2000 N4
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#### Accessories

Extension rod 100 cm	57,20	5301-0500 N4
Transport case	80,10	3600-2120 N4

# Novartos | pharma zone sampler according to FDA guidelines for unit-dose sampling



Double-sample possible without moving the lance in the bulk material



Computer-optimized geometry



Laser-engraved depth scale



Novartos was developed in co-operation with a globally-operating pharmaceuticals and chemicals corporation located in Basel, Switzerland.

- ▶ It is now possible to withdraw a double-sample without moving the lance in the bulk material. This goes a long way towards preventing demixing.
- ▶ Easy cleaning is an essential component of Novartos.
- ▶ Complete filling and emptying of sample chambers has been improved substantially using computer-optimized geometry.
- ▶ There are almost no crevices or dead spaces where sampling residues can collect.
- ▶ The precise-fitting sampling sets are easily replaceable and available in 0.1 ml increments in volumes from 0.0 to 4.0 ml.
- ▶ Two models are available:
  - **Novartos Uno** for targeted sampling from containers starting from ca. 200 l.
  - **Novartos Multi** for cross-section sampling from drums with less than 200 l.
- ▶ The wall strength of the lance has been increased to prevent deformations.
- ▶ A laser-engraved depth scale on the lance shaft provides precise information about the insertion depth.
- ▶ AISI 316 stainless steel.



① Novartos Uno w/o inserts · 2 chambers, 1 Zone		
Length of lance mm	Price/Unit	Article No.
1400	905,85	5358-1400 N4
1000	905,85	5358-1001 N4
600	882,95	5358-0600 N4

☑ Sampling inserts for Novartos Uno		
Capacity ml	Price/Unit	Article No.
0,5	69,70	5358-0105 N4
1,0	69,70	5358-0110 N4
1,5	69,70	5358-0115 N4
2,0	69,70	5358-0120 N4
2,5	69,70	5358-0125 N4
3,0	69,70	5358-0130 N4
3,5	69,70	5358-0135 N4
4,0	69,70	5358-0140 N4

② Novartos Multi w/o inserts · 14 chambers, 7 Zones		
Length of lance mm	Price/Unit	Article No.
1000	1300,90	5358-1000 N4

☑ Sampling inserts for Novartos Multi		
Capacity ml	Price/Unit	Article No.
0,5	69,70	5358-0005 N4
1,0	69,70	5358-0010 N4
1,5	69,70	5358-0015 N4
2,0	69,70	5358-0020 N4

☑ Transport case (not suitable for 1400mm length of lance)		
Capacity ml	Price/Unit	Article No.
	80,10	3600-2120 N4

## Unit Dose Sampling

During powder separation checks and purity validations of powders, liquids and semi-solid substances, special procedures (unit-dose-sampling) must be employed to achieve the desired results.

Special sampling methods, which are required especially in the pharmaceutical industry in conformance with FDA and GMP specifications, require samplers with special features.

- ▶ High degree of preciseness
- ▶ Groove-free surfaces, electropolished if possible
- ▶ AISI 316 stainless steel or PTFE materials
- ▶ Sterilizable
- ▶ Easy and perfect cleaning

Many Bürkle Samplers fulfill these demands, have been tested in actual practice, and are distinguished by especially sturdy and precise machining.

## UDS Samplers

- ▶ For various sampling depths with simultaneous double sample (Duo-Sampler).
- ▶ Precise volume calibration with 40 exchangeable sample inserts with volumes from 0.1 ml to 4.0 ml, in increments of 0.1 ml.



### “Take samples – but do it right!”

We employ this motto both in advising customers and in product development.

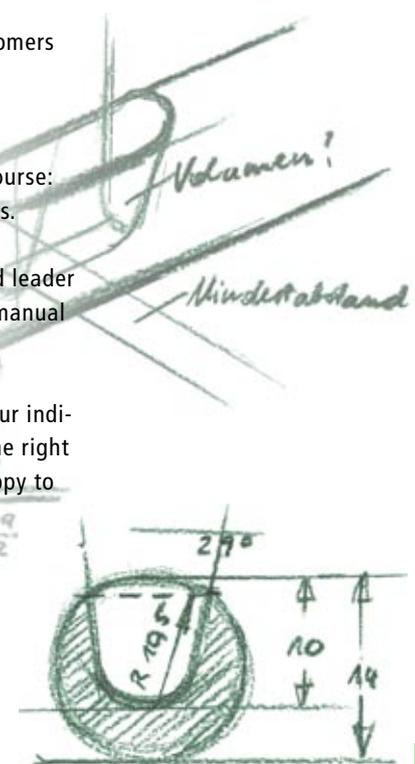
We also only develop new products in close cooperation with our users as a matter of course: from practical work for practical applications.

This is also the reason why we are the world leader and can offer the biggest product range of manual samplers.

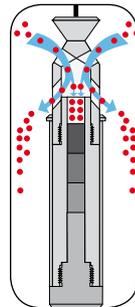
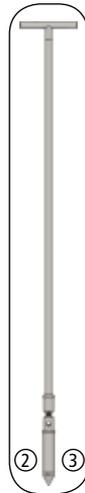
Are you looking for a special solution for your individual sampling problems? Then you're at the right place with Bürkle, because we would be happy to develop customized solutions for you.



This symbol indicates products that have been suggested by our customers and developed with their cooperation.



# PharmaPicker | for sampling very small quantities



PharmaPicker has been developed specially for sampling very small quantities of highly potent, expensive or active powders. Different tip container volumes from 0.1 to 2.5 ml (see table) can be replaced simply and quickly. PharmaPicker is made of AISI 316 stainless steel and is electropolished, thereby complying to GMP guidelines. All parts can be easily cleaned and disassembled. Note: Capacity tips have to be ordered separately!

- ▶ according to the tip container volume, the precisely determined volume is collected
- ▶ depths down to 3.5 m can be reached using the extension rod

### PharmaPicker Case

Complete set in a case: 1 handle, 1 extension rod (each 50 and 100 cm), 2 collection cylinders and 10 tip container volumes (please indicate desired container volume<sup>1)</sup>), stored cleanly in a stable transport case.

### Operation

1. Insert PharmaPicker. The disk thimble closes the collection cylinder automatically.
2. The disk thimble opens the collection cylinder at the proper point, and the desired sample is collected.
3. Withdraw PharmaPicker.
4. Empty the sample directly from the collection cylinder into the analysis container.

PharmaPicker Description	Capacity tip	Length mm	Price/Unit	Article No.
① PharmaPicker Case, completely (as described above)			1364,50	5346-0010 N2
② PharmaPicker 1 with collection cylinder for	0.10 – 1.00 ml <sup>1)</sup>	600	279,75	5346-1000 N2
③ PharmaPicker 2 with collection cylinder for	1.25 – 2.50 ml <sup>1)</sup>	600	279,75	5346-2000 N2
📏 Extension rod 50 cm		50	40,85	5380-0506 N4
Extension rod 100 cm		1000	47,40	5380-1006 N4
🔑 Handle			48,15	0006-8113 N3
④ Collection cylinder for container volume	0.10 – 1.25 ml <sup>1)</sup>		180,95	5346-1001 N2
⑤ Collection cylinder for container volume	1.25 – 2.50 ml <sup>1)</sup>		172,65	5346-2001 N2

<sup>1)</sup> please indicate the desired tip container volume; see table at right

📏 ⑥ Tip container capacities			
for PharmaPicker 5346-1000			
0.1 ml	0.2 ml	0.25 ml	0.3 ml 0.4 ml 0.5 ml 0.6 ml 0.7 ml 0.8 ml 0.9 ml 1.0 ml 1.1 ml 1.2 ml
for PharmaPicker 5346-2000			
1.25 ml	1.3 ml	1.4 ml	1.5 ml 1.6 ml 1.7 ml 1.8 ml 1.9 ml 2.0 ml 2.1 ml 2.2 ml 2.3 ml 2.4 ml 2.5 ml
Article No. 5346- + capacity. Ordering example:			
Capacity	Price/Unit	Article No.	
0,1 ml (up to 1.2 ml)	55,10	5346-1010 N2	
1,25 ml (up to 2.5 ml)	55,10	5346-2125 N2	

## StickProof | made of AISI 316 stainless steel



StickProof sampler for powders in the pharmaceutical industry, made of AISI 316 stainless steel. The especially slender tip can be inserted easily and deeply. The conical inlet of the tip lets you collect either very small or larger quantities. StickProof is constructed in one piece without edges, grooves or crevices for perfect and easy cleaning. The sample can be filled directly into the sampling bag. Fasten the bag with a sturdy clamp.

- ▶ Hand grip diameter 25 mm
- ▶ Borehole diameter 20 mm;
- ▶ Chamber length 120 mm
- ▶ Surface electropolished
- ▶ Variable sample quantity up to 50 ml



**C** You can find appropriate sample bags for the StickProof on pages 100 and 166.

Corresponds to ISTA standard for seed lengths of 20 mm (beans, corn), 10 mm (wheat, oats) and 5 mm (flax, vetches).

StickProof complete with clamp and 100 pcs. sampling bags 120 x 170 mm			
Length mm	Price/Unit	Price/Unit of (X) units	Article No.
410	234,00	(5) 211,10	5338-0410 N4

## PharmaSpoon | for ultrapure sampling



Special materials with excellent surface qualities must be used for sampling powdery substances, intermediate products and raw materials in the pharmaceuticals industry to prevent cross-contamination.

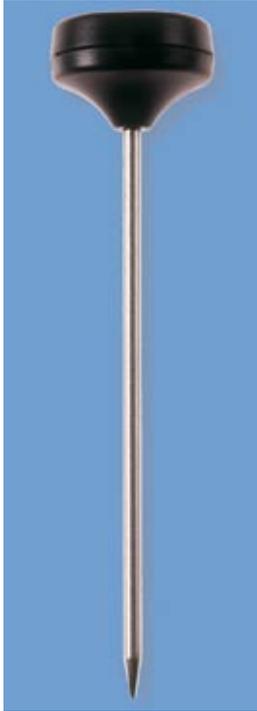
Our PharmaSpoon fulfills these requirements. Made of AISI 316 stainless steel, surface polished to a high gloss by hand (not electropolished!). The excellent surface qualities of the PharmaSpoon provides four decisive advantages:

- ▶ Residue collection is made much more difficult
- ▶ Residues are even visible in the trace sector ( $\mu\text{g}$  sector)
- ▶ The surface is easy to clean (no use of strong acids or caustic solutions necessary)
- ▶ The PharmaSpoon is also suitable for sterile sampling

PharmaSpoon			
Capacity ml	Length mm	Price/Unit	Article No.
500	650	305,75	5324-0001 N2

The PharmaSpoon was developed by an internationally known pharmaceutical company in Basel, Switzerland, and its usefulness has been confirmed in actual practice.

## Mini-Therm 1 | inexpensive



This immersion/penetration thermometer is suitable for measuring the temperature in gases, soft or powdery substances and liquids.

- ▶ Measurement range -50 °C to +150 °C
- ▶ Precision
  - ±1 °C (-10 °C to +100 °C)
  - ±2 °C (-50 °C to -10 °C)
  - ±2 % of value (+100 °C to +150 °C)
- ▶ Simple and fast battery change
- ▶ Sensor directly in the measurement tip
- ▶ Handy
- ▶ Versatile applicable

### MiniTherm 1 including battery

Length mm	Dia. mm	Price/Unit	Article No.
120	4	26,75	5384-0010 N2

## Thermo-hygrometer



Precise thermo-hygrometer with an accuracy of ±2% RH and LED alarm function to reliably report out-of-limits conditions via the built-in LED. Simple, continuous monitoring of atmosphere and dew point in laboratories, warehouses, clean rooms, museums, greenhouses, etc. The hygrometer can be bench-mounted or suspended.

- ▶ With dew point calculation and max./min. value display
- ▶ Humidity sensor insensitive to condensation
- ▶ LED alarm device for programming max./min. values from 2 ... 98 %RH
- ▶ Measuring ranges +2 ... +98 %RH
  - 10 ... +70 °C
  - 40 ... +70 °C dew point
- ▶ Accuracy ±2 %RH (+2 ... +98 %RH) ±1 digit
- ▶ Measuring frequency 18 s
- ▶ Resolution 0.1 % RH (0 ... +100 °C)
- ▶ Operating temperature -10 ... +70 °C
- ▶ With block battery 9V
- ▶ Service life 8.736 h

### Thermo-Hygrometer including battery

Price/Unit	Article No.
82,00	5384-0070 N2

## Mini temperature data logger



For all kinds of highly exact temperature monitoring with NTC temperature sensor (cold storage rooms, transportation, containers, cooling shelves, showcases).

- ▶ Safe: no data loss when battery is empty
- ▶ Simply exchangeable battery (CR 2032 lithium), battery service life approx. 500 days
- ▶ 3900 measured values storable
- ▶ Entire memory copied in 10 seconds.
- ▶ Protection class IP 65
- ▶ Simple software, Windows compatible; printout, graphic/tabular view of data
- ▶ Data communication via serial interface
- ▶ Measuring range -30 °C...+70 °C
- ▶ Resolution 0,1 °C
- ▶ Accuracy +/- 0,8 °C (-30 ... -20,1 °C)
  - +/- 0,5 °C (-20 ... 40 °C)
  - +/- 0,8 °C (40 ... 70 °C)
- ▶ LCD display, single row
- ▶ Measuring intervals 1 min ... 4 h
- ▶ Measures (LxWxH) 55x35x14 mm

### Mini temperature data logger incl. Battery

Description	Price/Unit	Article No.
MTD w/ wall holder and lock	76,50	5384-0001 N2
Starter set w/ wall holder and PC cable	193,50	5384-0002 N2
Starter set w/ wall holder and USB cable	199,50	5384-0003 N2

## Mini infrared thermometer | precision in pocket form



For measurements of delivered goods and for checking freezers, e.g. in supermarkets. Also optimal for quick measurements in the food industry and the home.

- ▶ Small and handy (80 mm), fits in every jacket pocket
- ▶ High accuracy in the critical range for the food industry
- ▶ Waterproof and robust with dishwasher-proof protective sleeve
- ▶ Minimum and maximum value display
- ▶ Scan mode for continuous measurement

- ▶ Measuring range -25 to + 250 °C
- ▶ Accuracy ±1 Digit
  - ±3 °C (-25 to -21 °C)
  - ±2 °C (-20 to -2,1 °C)
  - ±1 °C (-2 to +40 °C)
  - ±1,5 °C (+40 to +150 °C)
  - ±2 % of measured value (+150,1 to +250 °C)
- ▶ Resolution 0,1 °C (-9,9 bis +199 °C), 1 °C (remaining measuring range)
- ▶ Working temperature 0 to +50 °C
- ▶ Battery type 1x Lithium type CR 2032
- ▶ Battery life 40 h (typical)
- ▶ Dimensions 80 x 31 x 19 mm
- ▶ Weight 28 g

## SnowPack® dry ice machine | -79 °C cold



- ▶ Ideal coolant for transporting samples
- ▶ Available in 2 different sizes
- ▶ Easy to handle
- ▶ More information on page 203

SnowPack® enables you to obtain a -79 °C dry ice tablet weighing 50 or 250 g within a few moments, without complicated technology and without electricity! You can therefore obtain low-cost cooling to very low temperatures at any time you like.

Dry ice is odourless and easy to handle. The SnowPack® dry ice machine can be installed on any commercial CO<sub>2</sub>-bottle with a stand-pipe valve (thread W 21,80 x 1/14" acc. to DIN 477 Nr. 6), these are often already present in many production facilities and laboratories.

- ▶ Detailed informations on page 203

### Mini infrared thermometer complete with TopSafe and battery

Price/Unit	Article No.
<b>55,10</b>	5384-0080 N2

### SnowPack Dry ice machine

Version	Tablet dia. x H	Weight g	Price/Unit	Article No.
SnowPack 50	50 x 30	50	167,45	9805-0030 N4
SnowPack 250	80 x 60	250	205,90	9805-0200 N4

## GeoSampler, Puerkhauer | soil sampling

### GeoSampler

High-precision sampler for light soils, meadows and lawns. The foot bar of model 5006 makes work much easier.

- ▶ Depth scale with 10 cm divisions



	GeoSampler 5006 with foot bar	GeoSampler 5003 without foot bar
Total length	810 mm	600 mm
Groove length	300 mm	300 mm
Outer dia.	20 mm	17,2 mm
Inner dia. groove	14 mm	12,6 mm
Weight	1.5 kg	0.55 kg
Material	Stainless steel	Stainless steel
Price/Unit	81,10	63,45
Article No.	5350-5006 N2	5350-5003 N2

### Puerkhauer

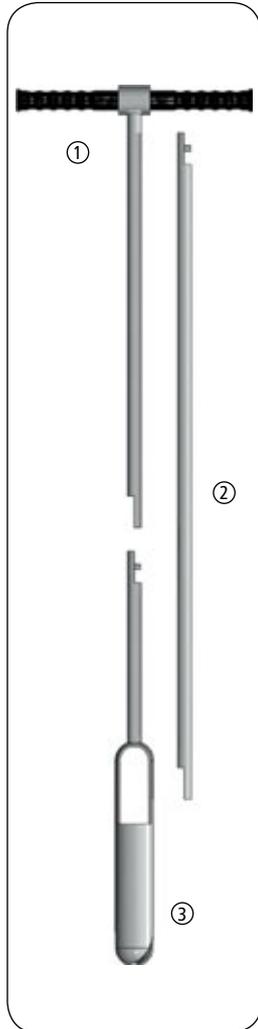
Very robust sampler for heavy and stony soils. Model 5018 has a conically tapered 60 cm tip which makes it much easier to extract the driven-in sampler. Ideal for N-min sampling 0 – 90 cm (mineral nitrogen determination).

- ▶ Depth scale with 10 cm divisions
- ▶ Attachable handle, with non-slip plastic grips. Handle is also used for removing the sample
- ▶ Reinforced impact head



	GeoSampler 5012	GeoSampler 5018
Total length	810 mm	1175 mm
Groove length	600 mm	1000 mm
Outer dia. top	20 mm	28 mm
Outer dia. bottom	20 mm	25 mm
Inner dia. groove	13 mm	18 mm
Weight	2.4 kg	3.8 kg
Material	Stainless steel	Stainless steel
Price/Unit	201,75	457,60
Article No.	5350-5012 N2	5350-5018 N2

# Mole | the professional ground sampler



Very robust model with specially hardened forged drill bits. For determining soil properties, moisture, structure.

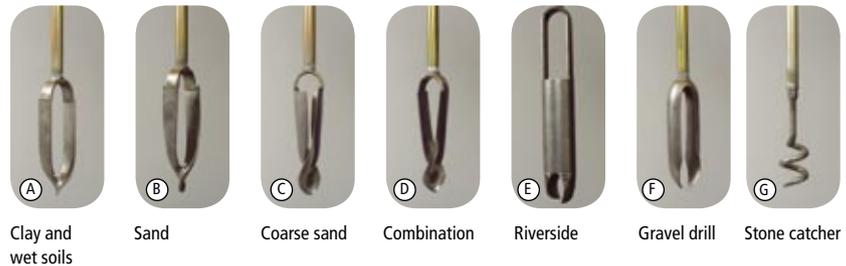
The shape of the Mole drill bits ensures minimum friction when drilling and removing the Mole. This reduces physical effort to a minimum.

The Mole has three components. Handle with 75 cm rod, extension rod 100 cm if necessary and one of seven available drill bits, each of which is designed for a particular soil type. The components can be combined without any problems. Extension rods can extend the working depth of the Mole down to 5 m.



## The seven drill bits

- Ⓐ **Clay and wet soils** with narrow side panels for minimum soil friction/resistance. As wet soils are usually very cohesive, the soil still adheres to the bit very well.
- Ⓑ **Sand** with broad side panels and therefore a large retention capacity for the sand.
- Ⓒ **Coarse sand** with extra broad side panels enclosing even more of the bit so that even coarse sandy soils and very dry soils are retained.
- Ⓓ **Combination** retains both strongly cohesive and less cohesive soils.
- Ⓔ **Riverside** very suitable for use in hard, encrusted soils and soils mixed with fine gravel. The drill cutters project from the drill itself, so that friction is greatly reduced.
- Ⓕ **Gravel drill** with slightly rounded, oblique cutters which pull themselves downward in the gravel. Any pebbles present are clamped between the drill sides, finer soil material (coarse sand with fine gravel) is retained in the drill bit.
- Ⓖ **Stone catcher** the stone catcher is used to collect and remove stones that prevent proper sampling with one of the other drill bits.



Mole handle and extension rod			
Article	Length cm	Price/Unit	Article No.
① Handle with rod	75	130,00	5350-1005 N4
② Extension rod	100	63,45	5350-1010 N4
<b>③ Drill bits</b>			
Ⓐ Clay and wet soils		89,45	5350-1015 N4
Ⓑ Sand		107,10	5350-1020 N4
Ⓒ Coarse sand		155,80	5350-1025 N4
Ⓓ Combination		101,90	5350-1030 N4
Ⓔ Riverside		107,10	5350-1035 N4
Ⓕ Gravel drill		131,30	5350-1040 N4
Ⓖ Stone catcher		117,50	5350-1045 N4
Ⓒ Transport case with sufficient space for handle with 75 cm rod, 100 cm extension rods, 6 drill bits and stone catcher		80,10	3600-2120 N4

# Sampling containers | for clean and safe transport from sampling to analysis



## Sample tubes PP, white

with screw cap. Nicely designed packaging can. Crevice-free interior for completely emptying.

- ▶ 8 sizes
- ▶ Sterilizable



## Sealable wide-necked bottles

Stable bottle with sealing eyelets on screw cap and bottle. Particularly suitable for mailing samples. Seals provide increased sample authenticity. Wide opening, easy to fill. Suitable for viscous liquids, powders, granules and pastes.

- ▶ Made of HDPE
- ▶ Leakproof
- ▶ Wide opening for easy filling



## Sample tubes PP, aseptic

with patented closure, ideal for one-handed use. The lid hinge angle is 90°. Closure 100 % leakproof. No undercuts, so easy to fill and empty without residues.

- ▶ PP, transparent
- ▶ Aseptic
- ▶ Autoclavable
- ▶ With marking field and scale (60 ml and 300 ml sizes)

Sample tubes PP white, screw cap			
Capacity ml	Price/Unit	Price/Unit of (X) units	Article No.
12	0,18	(100) 0,16	6214-0012 N3
25	0,28	(100) 0,23	6214-0025 N3
60	0,51	(100) 0,41	6214-0060 N3
90	0,56	(100) 0,46	6214-0090 N3
125	0,64	(100) 0,51	6214-0125 N3
250	1,04	(100) 0,82	6214-0250 N3
600	1,14	(100) 0,92	6214-0600 N3
1000	2,81	(100) 2,18	6214-1000 N3

Sealable wide-necked bottles			
Capacity ml	Price/Unit	Price/Unit of (X) units	Article No.
250	1,98	(25) 1,71	0322-0250 N3
500	2,05	(25) 1,79	0322-0500 N3
1000	4,17	(10) 3,48	0322-1000 N3
2000	4,78	(10) 4,11	0322-2000 N3

Sample tubes PP transparent			
Capacity ml	Height x dia. mm	Price/Unit	Article No.
60	80 x 33	0,27	6206-0060 N3
100	80 x 45	0,32	6206-0100 N3
300	92 x 65/75	0,84	6206-0300 N3

# Sampling containers | for clean and safe transport from sampling to analysis



## Sample bottles LDPE, wide mouth

Robust bottle with wide mouth. Perfectly suited for use with highly viscous liquids, powders, granulates and pastes.

- ▶ LDPE, transparent
- ▶ Breakproof
- ▶ 0318-0050 sealable



## Sample bottles HDPE, wide mouth

Ideal bottles for storing, packaging, specimens, samples and transport of pastes and granulates.

- ▶ HDPE, transparent
- ▶ Tamper-evident screw cap, PP, blue
- ▶ UN approval for solids (type 100 ml and more)



## Aluminum bottles

Particularly suitable for storage, transport or shipment of substances and reference samples that must be free from all contamination.

- ▶ Can be emptied completely, odourless, corrosion-resistant
- ▶ Comply with PCB regulation
- ▶ Pure aluminum (AL99.5)
- ▶ Screw cap lid PP with internal aluminum seal



## Sampling cups PP

with hermetically sealing cap, suitable for shipping, can be labelled. Empty cups are stackable.

- ▶ PP, transparent
- ▶ Sterilizable
- ▶ Breakproof at room temperature
- ▶ Moulded-in graduations with 10 ml subdivisions

Seals can be found on page 119

Sample bottles LDPE wide mouth			
Cap. ml	Price/Unit	Price/Unit of (X) units	Article No.
50	0,85	(100) 0,68	0318-0050 N3
100	1,11	(100) 0,83	0318-0100 N3
200	1,51	(360) 1,24	0318-0200 N3
250	1,44	(50) 1,11	0318-0250 N3
300	1,81	(231) 1,49	0318-0300 N3
500	2,35	(50) 1,79	0318-0500 N3
750	3,48	(98) 2,76	0318-0750 N3
1000	3,90	(50) 3,02	0318-1000 N3
1500	5,60	(46) 4,50	0318-1500 N3
2000	6,05	(50) 4,58	0318-2000 N3

Sample bottles HDPE wide mouth			
Cap. ml	Price/Unit	Price/Unit of (X) units	Article No.
50	1,34	(700) 1,23	0342-0050 N3
100	1,21	(582) 1,10	0342-0100 N3
250	1,76	(273) 1,58	0342-0250 N3
500	2,05	(124) 1,87	0342-0500 N3
750	2,07	(90) 1,93	0342-0750 N3
1000	2,10	(81) 2,04	0342-1000 N3
1500	3,33	(42) 3,07	0342-1500 N3
2500	4,40	(27) 3,90	0342-2500 N3
4000	5,50	(15) 4,99	0342-4000 N3

Aluminum bottles			
Cap. ml	Price/Unit	Price/Unit of (X) units	Article No.
38	1,20	(100) 1,09	0327-0038 N3
60	1,31	(100) 1,19	0327-0060 N3
120	1,57	(143) 1,42	0327-0120 N3
300	2,09	(149) 2,05	0327-0300 N3
600	3,03	(84) 2,96	0327-0600 N3
1200	3,59	(130) 3,43	0327-1200 N3

Sampling cups PP			
Cap. ml	Price/Unit	Price/Unit of (X) units	Article No.
100	0,83	(100) 0,73	7103-0100 N3

**Ice-cold sample transport**  
No problem – with the Snow-Pack dry ice apparatus you can easily prepare -79 °C dry ice tablets. The cool way of protecting your samples. See page 203.

## Wide-necked boxes | square shaped



An extra-wide neck enables convenient bottle filling with liquid, powder or granular products such as tablets, capsules, dyes, shipments of samples, specimens, gift packages, hobby articles, spices, etc.

- ▶ PVC crystal clear, with screw cap

seal-it can be found on page 120

### Wide-necked boxes



Capacity ml	LxWxH mm	Price/Unit	Article No.
50	38x38x63	0,71	0355-0050 N3
100	46x46x75	0,82	0355-0100 N3
200	59x59x91	1,22	0355-0200 N3
300	66x66x98	1,35	0355-0300 N3
500	80x80x111	1,79	0355-0500 N3
750	92x92x120	2,13	0355-0750 N3
1000	95x95x152	2,39	0355-1000 N3
2000	120x120x190	3,90	0355-2000 N3

## FlipTop sample tubes



Sample tubes with FlipTop closure. A molecular drying agent is incorporated in the tube. Ideal for protecting sensitive products such as glucose test strips and other diagnostic products against moisture.

The sample tubes are produced under clean room conditions and formed at over 100 °C in the injection molding machine, so that the insides of the tubes are virtually sterile. This method makes the tubes absolutely leakproof, as the cap and tube adapt optimally to each other during the cooling process. Undercut-free, so easy to fill and can be emptied completely.

- ▶ PP, white
- ▶ Aseptic
- ▶ Easy to open and close, one-hand operation

### FlipTop sample tubes



Capac. ml	H x dia. mm	Price/Unit	Price/Unit of (X) units	Article No.
169	101 x 51.5	1,55	(10) 1,48	6207-0169 N3

## SteriBag | the sterile bag



Multifunctional packaging/sampling bag for different kinds of samples in chemistry, pharmaceuticals, medicine, veterinary science and foodstuffs.

- ▶ Leakproof
- ▶ Sterile
- ▶ 500 pcs. in pack/box

see also page 100

### SteriBag without labelling area



Capacity ml	WxL mm	Bags/pack	Price/pack	Article No.
60	76 x 127	500	96,70	5344-0060 N3
180	76 x 178	500	99,85	5344-0180 N3
540	114 x 229	500	117,50	5344-0540 N3
720	140 x 229	500	131,05	5344-0720 N3
810	114 x 305	500	136,25	5344-0810 N3
1650	178 x 305	250	104,00	5344-1650 N3

### SteriBag with labelling area

60	76 x 127	500	105,05	5344-0061 N3
180	76 x 178	500	108,15	5344-0181 N3
540	114 x 229	500	124,80	5344-0541 N3
720	140 x 229	500	149,75	5344-0721 N3
810	114 x 305	500	144,55	5344-0811 N3
1650	178 x 305	250	117,50	5344-1651 N3

## Sample tubes PP | aseptic, with seal



The sample tubes are produced under clean room conditions and formed at over 100 °C in the injection molding machine, so that the insides of the tubes are virtually sterile. This method makes the tubes absolutely leakproof, as the cap and tube adapt optimally to each other during the cooling process. Undercut-free, so easy to fill and can be emptied completely. With seal guaranteeing virtual sterility until first-time opening. Can be resealed.

- ▶ PP, transparent
- ▶ Aseptic
- ▶ Size 340 ml with scale
- ▶ Can be sealed

Sample tubes PP transparent			   	
Capacity ml	H x dia. mm	Price/Unit	Price/Unit of (X) units	Article No.
55	84 x 29	0,28	(10) 0,27	6207-0055 N3
340	119 x 63	0,46	(10) 0,44	6207-0340 N3

## LetterBox | the mail-conform packaging



The compact and flat LetterBox is not only stable and ensures that samples or other small parts can be mailed safely but it also saves mailing charges. Items that previously had to be sent as a package (because they could not pass through the 50 mm wide mailbox slot) can now be sent as letters; this means that they pay for themselves!

Available in different sizes and with different contents, LetterBox can be used for solids. Depending on your national mailing regulations, Letterbox can be mailed directly, without an envelope and only with an address label.

Both halves of LetterBox are permanently attached to each other with a rigid film hinge. Simply fold together and firmly seal with the snap closure.

LetterBox can be used several times.

- ▶ 2330-0040 in yellow, all other sizes transparent

LetterBox						 	
Type	Outer dims. L x W x H mm	Inner dims. L x W x H mm	Material	Price/Unit	Price/Unit of (X) units	Article No.	
LetterBox	113x94x17	82x62x12	PP	0,98	(100) <b>0,88</b>	2330-0010 N3	
LetterBox	135x99x18	102x65x15	PP	1,05	(125) <b>0,95</b>	2330-0020 N3	
LetterBox	215x150x18	180x114x15	PP	2,81	(100) <b>2,52</b>	2330-0030 N3	
LetterBox	245x170x18	210x135x15	PP	3,02	(100) <b>2,70</b>	2330-0040 N3	
Yellow foam insert for LetterBox	2330-0040			0,80	(100) <b>0,73</b>	2330-0041 N3	

## Directory of packaging containers



145 Narrow-necked bottles

147 Wide-necked bottles

149 UN bottles

150 Aluminum bottles

153 Dropping bottles

154 Wash bottles

155 Safety wash bottle with venting system

161 Laboratory bottles

162 Wide-necked boxes, round

165 Sample boxes

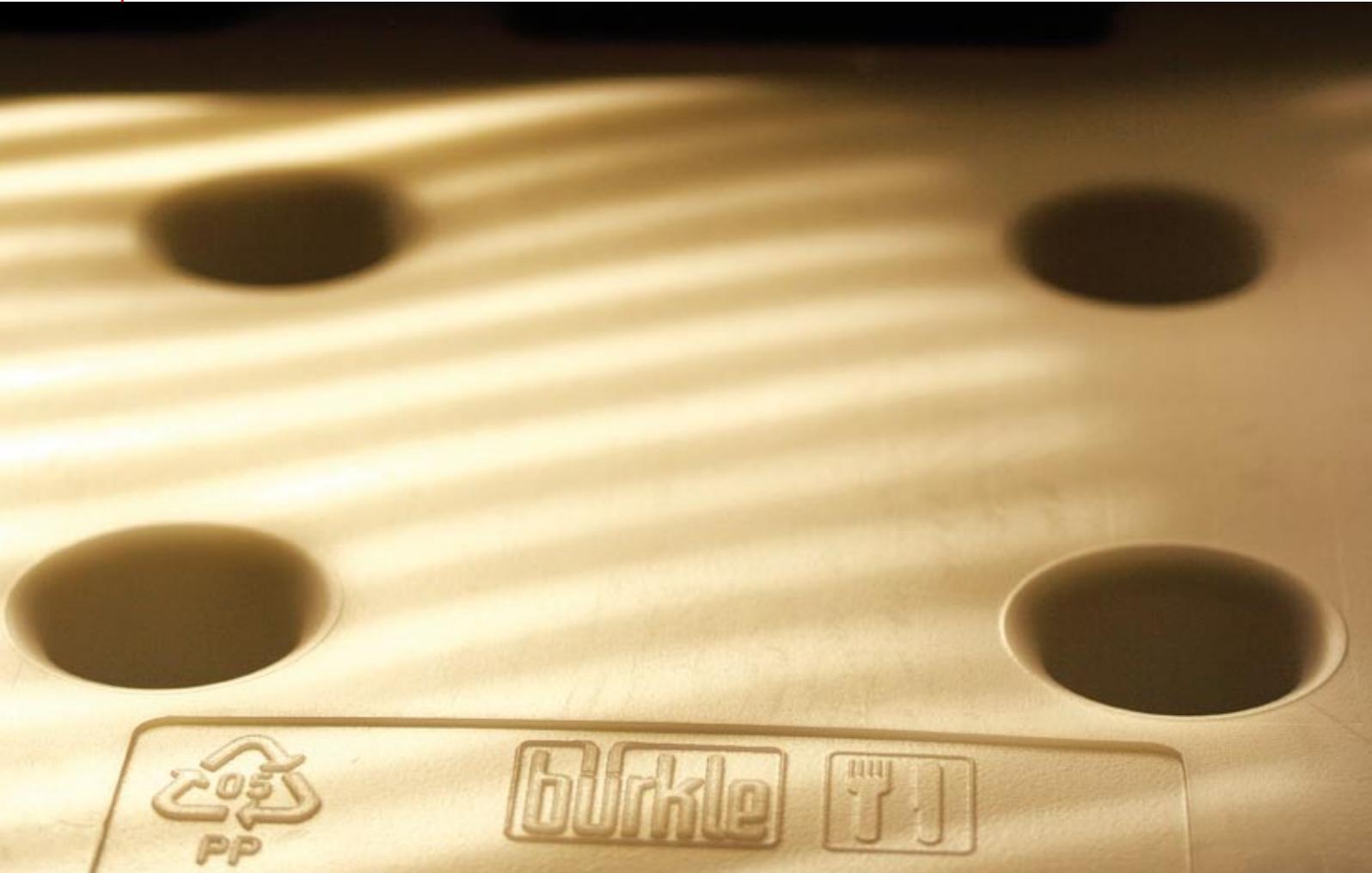
167 Wide-necked boxes, square shaped

169 Packaging buckets

171 Compact jerrycans

172 Wide-necked jerrycans





## Packaging containers

for laboratory, product packaging, sampling, industry, foodstuffs

# List of capacities | bottles, tubes, canisters, barrels

Type	Page	Shape	Material	Cap	Article No.
<b>10 ml</b>					
Bottle NN	141	round	LDPE	Screw	0302-0010
Bottle NN	149	round	LDPE	Drop	0306-0010
Bottle	149	round	LDPE	Drop	0307-0010
Bottle MO	142	round	LDPE	Screw	0323-0010
Box/Jar	159	round	PP	Screw	6214-0012
<b>20 ml</b>					
Bottle NN	141	round	LDPE	Screw	0302-0020
Bottle NN	149	round	LDPE	Drop	0306-0020
Bottle NN	156	square	HDPE	Screw	0331-0020
<b>25 ml</b>					
Bottle	149	round	LDPE	Drop	0307-0025
Box/Jar	159	round	PP	Screw	6214-0025
<b>30 ml</b>					
Bottle NN	141	round	LDPE	Screw	0302-0030
Bottle NN	149	round	LDPE	Drop	0306-0030
Bottle NN	147	round	Alu	Screw	0327-0038
<b>50 ml</b>					
Bottle NN	141	round	LDPE	Screw	0302-0050
Bottle NN	153	round	PE	Spray	0309-3005
Bottle NN	149	round	LDPE	Drop	0306-0050
Bottle	149	round	LDPE	Drop	0307-0050
Bottle WN	143	round	LDPE	Screw	0318-0050
Bottle NN	156	square	HDPE	Screw	0331-0050
Bottle UN	155	square	HDPE	Tamper-evid.	0342-0050
Box/Jar	163	square	PVC	Screw	0355-0050
Box/Jar	163	square	PETG	Screw	0357-0050
<b>60 ml</b>					
Bottle NN	147	round	Alu	Screw	0327-0060
Box/Jar	159	round	PP	Screw	6214-0060
Box/Jar	158	round	PFA	Screw	9990-0157
Box/Jar	161	round	PP	Snap	6206-0060
<b>90 ml</b>					
Box/Jar	158	round	PFA	Screw	6205-0090
Box/Jar	159	round	PP	Screw	6214-0090
<b>100 ml</b>					
Bottle MO	145	round	HDPE	Screw	0301-100
Bottle NN	141	round	LDPE	Screw	0302-100

Type	Page	Shape	Material	Cap	Article No.
Bottle NN	141	round	LDPE	Screw	0303-0100
Bottle NN	149	round	LDPE	Drop	0306-0100
Bottle NN	140	round	HDPE	Snap	0308-0100
Bottle NN	140	round	HDPE	Screw	0308-0110
Bottle NN	150	round	LDPE	Tapering	0310-0010
Bottle NN	153	round	PE	Spray	0309-3100
Bottle NN	140	round	LDPE	Screw	0314-0100
Bottle WN	143	round	LDPE	Screw	0318-0100

Bottle WN	143	round	PP	Screw	0319-0100
Bottle WN	143	round	LDPE	Screw	0320-0100
Bottle MO	142	round	LDPE	Screw	0323-0100
Bottle NN	156	square	HDPE	Screw	0331-0100
Bottle NN	156	square	HDPE	Screw	0332-0100
Bottle NN	156	square	HDPE	Drop	0333-0100
Bottle NN	155	square	HDPE	Tamper-evid.	0340-0100
Bottle UN	155	square	HDPE	Tamper-evid.	0342-0100
Box/Jar	163	square	PVC	Screw	0355-0100
Box/Jar	163	square	PVC	Screw	0356-0100
Box/Jar	163	square	PETG	Screw	0357-0100
Box/Jar	161	round	PP	Snap	6206-0100
Box/Jar	161	round	PP	Snap	6206-0101
Box/Jar	158	round	HDPE	Screw	6282-0100
Cup	161	round	PP	Screw	7103-0100
<b>120 ml</b>					
Bottle NN	147	round	Alu	Screw	0327-0120
<b>125 ml</b>					
Bottle	157	square	PP	Screw	0315-0125

Type	Page	Shape	Material	Cap	Article No.
Bottle	157	square	PC	Screw	0316-0125
Bottle UN	146	round	Alu	Sealable	0329-0125
Bottle	157	8-Corn.	PET	Screw	0370-0125
Bottle	157	8-Corn.	PP	Screw	0371-0125
Box/Jar	159	round	PP	Screw	6214-0125
<b>150 ml</b>					
Bottle WN	153	round	LDPE	Spray	0309-4015
<b>180 ml</b>					
Box/Jar	158	round	PFA	Screw	6205-0180
<b>200 ml</b>					
Bottle NN	141	round	LDPE	Screw	0302-0200
Bottle WN	143	round	LDPE	Screw	0318-0200
Box/Jar	163	square	PVC	Screw	0355-0200
Box/Jar	163	square	PVC	Screw	0356-0200
Box/Jar	163	square	PETG	Screw	0357-0200
Box/Jar	160	round	PE	Push-pull	6210-0200
<b>250 ml</b>					
Bottle MO	145	round	HDPE	Screw	0301-0250
Bottle NN	141	round	LDPE	Screw	0302-0250
Bottle NN	141	round	LDPE	Screw	0303-0250
Bottle NN	149	round	LDPE	Drop	0306-0250
Bottle NN	140	round	HDPE	Snap	0308-0250
Bottle NN	140	round	HDPE	Screw	0308-0251
Bottle NN	152	round	LDPE	Spray	0309-1025
Bottle NN	150	round	LDPE	Tapering	0310-0025
Bottle NN	153	round	PE	Spray	0309-3025
Bottle NN	140	round	LDPE	Screw	0314-0250
Bottle	157	square	PP	Screw	0315-0250
Bottle	157	square	PC	Screw	0316-0250
Bottle WN	143	round	LDPE	Screw	0318-0250
Bottle WN	143	round	PP	Screw	0319-0250
Bottle WN	143	round	LDPE	Screw	0320-0250
Bottle WN	146	round	HDPE	Sealable	0322-0250
Bottle MO	142	round	LDPE	Screw	0323-0250
Bottle UN	146	round	Alu	Sealable	0329-0250
Bottle NN	156	square	HDPE	Screw	0332-0250
Bottle NN	156	square	HDPE	Drop	0333-0250
Bottle WN	156	square	HDPE	Screw	0338-0250

Type	Page	Shape	Material	Cap	Article No.
Bottle NN	155	square	HDPE	Tamper-evid.	0340-0250
Bottle UN	155	square	HDPE	Tamper-evid.	0342-0250
Bottle WN	153	round	LDPE	Spray	0309-4025
Bottle	157	8-Corn.	PET	Screw	0370-0250
Bottle	157	8-Corn.	PP	Screw	0371-0250
Box/Jar	160	round	PP	Screw	6202-0250
Box/Jar	159	round	PP	Screw	6214-0250
Box/Jar	160	round	PE	Push-pull	6210-0250
Box/Jar	158	round	HDPE	Screw	6282-0250
Bottle NN	150	round	PFA	Tapering	7202-0250
<b>300 ml</b>					
Bottle UN	143	round	LDPE	Screw	0318-0300
Bottle NN	147	round	Alu	Screw	0327-0300
Box/Jar	163	square	PVC	Screw	0355-0300
Box/Jar	163	square	PVC	Screw	0356-0300
Box/Jar	161	round	PP	Snap	6206-0300
Box/Jar UN	159	round	PP	Screw	6209-0300
<b>400 ml</b>					
Box/Jar	160	round	PE	Push-pull	6210-0401
<b>500 ml</b>					
Bottle MO	145	round	HDPE	Screw	0301-0500
Bottle NN	141	round	LDPE	Screw	0302-0500
Bottle NN	141	round	LDPE	Screw	0303-0500
Bottle UN	145	round	HDPE	Screw	0304-0500
Bottle NN	149	round	LDPE	Drop	0306-0500
Bottle NN	140	round	HDPE	Snap	0308-0500
Bottle NN	140	round	HDPE	Screw	9999-0311
Bottle NN	152	round	LDPE	Spray	0309-1050
Bottle NN	150	round	LDPE	Tapering	0310-0050
Bottle NN	140	round	LDPE	Screw	0314-0500
Bottle	157	square	PP	Screw	0315-0500
Bottle	157	square	PC	Screw	0316-0500
Bottle WN	143	round	LDPE	Screw	0318-0500
Bottle WN	143	round	PP	Screw	0319-0500
Bottle WN	143	round	LDPE	Screw	0320-0500
Bottle WN	146	round	HDPE	Sealable	0322-0500
Bottle MO	142	round	LDPE	Screw	0323-0500
Bottle MO	142	round	LDPE	Screw	0323-0501

Type	Page	Shape	Material	Cap	Article No.
Bottle UN	146	round	Alu	Sealable	0329-0500
Bottle NN	156	square	HDPE	Screw	0332-0500
Bottle NN	156	square	HDPE	Drop	0333-0500
Bottle WN	156	square	HDPE	Screw	0338-0500
Bottle NN	155	square	HDPE	Tamper-evid.	0340-0500
Bottle UN	155	square	HDPE	Tamper-evid.	0342-0500
Box/Jar	163	square	PVC	Screw	0355-0500
Box/Jar	163	square	PVC	Screw	0356-0500
Box/Jar	163	square	PETG	Screw	0357-0500



Bottle	157	8-Corn.	PET	Screw	0370-0500
Bottle	157	8-Corn.	PP	Screw	0371-0500
Box/Jar	160	round	PP	Screw	6202-0500
Box/Jar UN	159	round	PP	Screw	6209-0500
Box/Jar	160	round	PE	Push-pull	6210-0500
Box/Jar	160	square	LDPE	Push-pull	6250-0500
Box/Jar	158	round	HDPE	Screw	6282-0500
Bottle NN	150	round	PFA	Tapering	0310-1050
Bottle WN	151	round	LDPE	Tapering	95XX-0500
Bottle WN	151	round	LDPE	Tapering	9550-050X
X – with danger symbol					
<b>600 ml</b>					
Bottle NN	147	round	Alu	Screw	0327-0600
Box/Jar	159	round	PP	Screw	6214-0600
<b>650 ml</b>					
Box/Jar UN	159	round	PP	Screw	6209-0650
<b>700 ml</b>					
Box/Jar	160	round	PE	Push-pull	6210-700

Type	Page	Shape	Material	Cap	Article No.
<b>750 ml</b>					
Bottle WN	143	round	LDPE	Screw	0318-0750
Bottle UN	155	square	HDPE	Tamper-evid.	0342-0750
Box/Jar	163	square	PVC	Screw	0355-0750
Box/Jar	163	square	PVC	Screw	0356-0750
Box/Jar	158	round	HDPE	Screw	6282-0750
<b>1000 ml</b>					
Bottle MO	145	round	HDPE	Screw	0301-1000
Bottle NN	141	round	LDPE	Screw	0302-1000
Bottle NN	141	round	LDPE	Screw	0303-1000
Bottle UN	145	square	HDPE	Screw	0304-1000
Bottle NN	149	round	LDPE	Drop	0306-1000
Bottle NN	140	round	HDPE	Snap	0308-1000
Bottle NN	140	round	HDPE	Screw	0308-1001
Bottle NN	152	round	LDPE	Spray	0309-1000
Bottle NN	150	round	LDPE	Tapering	0310-1000
Bottle NN	140	round	LDPE	Screw	0314-1000
Bottle	157	square	PP	Screw	0315-1000
Bottle	157	square	PC	Screw	0316-1000
Bottle WN	143	round	LDPE	Screw	0318-1000
Bottle WN	143	round	PP	Screw	0319-1000
Bottle WN	143	round	LDPE	Screw	0320-1000
Bottle WN	146	round	HDPE	Sealable	0322-1000
Bottle MO	142	round	LDPE	Screw	0323-1000
Bottle NN	156	square	HDPE	Screw	0332-1000
Bottle NN	156	square	HDPE	Drop	0333-1000
Bottle WN	156	square	HDPE	Screw	0338-1000
Bottle NN	155	square	HDPE	Tamper-evid.	0340-1000
Bottle UN	155	square	HDPE	Tamper-evid.	0342-1000
Box/Jar	163	square	PVC	Screw	0355-1000
Box/Jar	163	square	PVC	Screw	0356-1000
Box/Jar	163	square	PETG	Screw	0357-1000
Bottle	157	8-Corn.	PET	Screw	0370-1000
Bottle	157	8-Corn.	PP	Screw	0371-1000
Container WN	144	round	HDPE	Sealable	
Bucket	165	round	PP	Push-pull	2327-0001
Box/Jar	160	round	PP	Screw	6202-1000
Box/Jar UN	159	round	PP	Screw	6209-1000

Type	Page	Shape	Material	Cap	Article No.
Box/Jar	160	round	PE	Push-pull	6210-1001
Box/Jar	159	round	PP	Screw	6214-1000
Box/Jar	160	square	LDPE	Push-pull	6250-1000
Box/Jar	160	square	LDPE	Push-pull	6250-1001
Box/Jar	158	round	HDPE	Screw	6282-1000
Bottle NN	150	round	PFA	Tapering	7202-1000
1200 ml					
Bottle NN	147	round	Alu	Screw	0327-1200
1250 ml					
Bottle UN	146	round	Alu	Sealable	0329-1250
1500 ml					
Drucksprüher	152	round	PP	Spray	0309-1001
Bottle WN	143	round	LDPE	Screw	0318-1500
Bottle UN	155	square	HDPE	Tamper-evin.	0342-1500
Box/Jar	160	square	LDPE	Push-pull	6250-1500
Box/Jar	158	round	HDPE	Screw	6282-1500
2000 ml					
Bottle NN	141	round	LDPE	Screw	0302-2000
Bottle	157	square	PC	Screw	0316-2000
Bottle WN	143	round	LDPE	Screw	0318-2000
Bottle WN	146	round	HDPE	Sealable	0322-2000
Bottle MO	142	round	LDPE	Screw	0323-2000
Box/Jar	163	square	PVC	Screw	0355-2000
Box/Jar	163	square	PVC	Screw	0356-2000
Box/Jar	163	square	PETG	Screw	0357-2000
Container WN	144	round	HDPE	Sealable	1406-0002
Bucket	165	round	PP	Push-pull	2327-0020
Box/Jar	160	round	PE	Push-pull	6210-2000
Box/Jar	160	square	LDPE	Push-pull	6250-2000
Box/Jar	160	square	LDPE	Push-pull	6250-2300
Box/Jar	158	round	HDPE	Screw	6282-2000
2300 ml					
Container WN	144	square	HDPE	Tamper-evin.	0317-2300
2500 ml					
Bottle UN	145	square	HDPE	Screw	0304-2500
Bottle NN	155	square	HDPE	Tamper-evin.	0340-2500
Bottle UN	155	square	HDPE	Tamper-evin.	0342-2500

Type	Page	Shape	Material	Cap	Article No.
3000 ml					
Bottle NN	141	round	LDPE	Screw	0302-3000
Container WN	144	round	HDPE	Sealable	1406-0003
Bucket	165	round	PP	Push-pull	2327-0030
3500 ml					
Container UN	164	round	HDPE	Sealable	1105-0003
Box/Jar	160	square	LDPE	Push-pull	6250-3300
4000 ml					
Bottle UN	155	square	HDPE	Tamper-evin.	0342-4000
Container WN	144	round	HDPE	Sealable	
4400 ml					
Container WN	144	square	HDPE	Tamper-evin.	0317-4400
5 l					
Bottle NN	141	round	LDPE	Screw	0302-5000

Bottle WN	143	round	LDPE	Screw	0318-3000
Bottle, stor.	169	round	HDPE	Screw	040X-5000
Jerrycan WN	168	square	HDPE	Screw	043X-5000
Jerrycan	167	square	PP	Tamper-evin.	0435-5000
Container WN	144	round	HDPE	Sealable	9999-1402
Container	164	square	HDPE	Screw	1406-1005
Jerrycan UN	165	square	HDPE	Tamper-evin.	1427-0005
Bucket	165	round	PP	Push-pull	2327-0050
6 l					
Container UN	164	round	HDPE	Sealable	1105-0006
7 l					
Bucket	206	round	PE	without	2308-0007
10 l					
Bottle, stor.	169	round	HDPE	Screw	040X-0010

Type	Page	Shape	Material	Cap	Article No.
Jerrycan WN	168	square	HDPE	Screw	043X-0010
Container UN	164	round	HDPE	Sealable	1105-0010
Container WN	144	round	HDPE	Sealable	9999-1401
Container	164	square	HDPE	Screw	1406-1010
Jerrycan UN	165	square	HDPE	Tamper-evin.	1427-0010
Bucket	165	round	PP	Push-pull	2327-0010
11 l					
Bucket	206	round	PE	without	2308-0011
15 l					
Bucket	206	round	PE	without	2308-0015
19 l					
Bucket	206	round	PE	without	2308-0019
20 l					
Jerrycan UN	165	square	HDPE	Tamper-evin.	1427-0020
Jerrycan WN	168	square	HDPE	Screw	043X-0020
25 l					
Bottle, stor.	169	round	HDPE	Screw	040X-0025
30 l					
Jerrycan WN	168	square	HDPE	Screw	043X-0030
Kanister UN	165	square	HDPE	Tamper-evin.	1427-0030
Container UN	164	round	HDPE	Sealable	1105-0026
Container UN	164	round	HDPE	Sealable	1105-0033
60 l					
Bottle, stor.	169	round	HDPE	Screw	040X-0060
EH				<b>Narrow-necked opening</b>	
MH				<b>Medium wide opening</b>	
WH				<b>Wide-necked opening</b>	

Narrow-necked bottles for universal use | round form, handy, easy to squeeze, secure drain



One bottle, 3 combinations

- ① Wash bottle closure (see also page 154)
- ② Dropper cap (see also page 153)
- ③ Screw cap

**Bulk Prices**

General purpose bottles for storage, packing, laboratory, sampling and transporting liquids.

Narrow-necked bottles with screw cap, LDPE transparent



Capacity ml	Bottle dia. mm	Height w/ cap mm	Neck dia. mm	Thread GL	Price/Unit	Price/Unit of (X) units	Article No.
10	26	48	9	14	0,43	(100) 0,33	0302-0010 N3
20	32	58	9	14	0,48	(100) 0,37	0302-0020 N3
30	35	64	9	14	0,56	(100) 0,44	0302-0030 N3
50	40	86	13	18	0,73	(50) 0,54	0302-0050 N3
100	45	106	13	18	0,80	(50) 0,55	0302-0100 N3
200	58	134	13	18	1,35	(25) 1,04	0302-0200 N3
250	61	140	18	25	1,40	(25) 1,33	0302-0250 N3
500	75	173	18	25	2,09	(25) 1,60	0302-0500 N3
1000	95	213	21,6	28	3,17	(25) 2,32	0302-1000 N3
2000	120	263	21,6	28	5,60	(10) 4,21	0302-2000 N3
3000	139	306	24	32	9,15	(10) 6,85	0302-3000 N3
5000	163	360	31	40	12,60	(5) 11,55	0302-5000 N3

## Round bottles | transparent, two closure options



Handy round-shaped dispensing bottles with snap-action hinged lid or screw cap lid, especially suited for cosmetic liquids, emulsion cremes, and oils.

- ▶ Transparent HDPE
- ▶ Snap closure with hole-diameter 3 mm
- ▶ Worth the money and shapely

**Bulk Prices**

Round bottles HDPE with snap-action lid    					
Capacity ml	Dia. x H with lid mm	Thread	Price/Unit	Price/Unit of (X) units	Article No.
100	41 x 115	22	0,82	(50) 0,75	0308-0100 N3
250	56 x 143	22	1,03	(25) 0,94	0308-0250 N3
500	70 x 182	25	1,32	(25) 1,27	0308-0500 N3
1000	89 x 221	25	1,94	(10) 1,77	0308-1000 N3
Round bottles HDPE with screw cap					
100	41 x 115	22	0,76	(50) 0,67	0308-0110 N3

## Tall-form bottles



Universal tall form bottles for storage, packaging, laboratory work and sampling with standard-screw cap.

- ▶ Leakproof
- ▶ Suitable dropper cap is available

Tall-form bottles LDPE with screw cap LDPE    						
Capacity ml	Dia. x Height mm	Inner neck dia. mm	Thread-dia. mm	Price/Unit	Price/Unit of (X) units	Article No.
100	45 x 98	13	18	0,80	(50) 0,61	0314-0100 N3
250	61 x 128	18	25	1,27	(25) 0,96	0314-0250 N3
500	77 x 162	18	25	2,06	(25) 1,56	0314-0500 N3
1000	95 x 198	21,6	28	3,07	(25) 2,22	0314-1000 N3
Dropper caps for Tall-form bottles						
fits for bottle	Price/Unit	Price/Unit of (X) units	Article No.			
50 ml and 100 ml	0,25	(100) 0,24	0300-3018 N3			
250 ml and 500 ml	0,33	(100) 0,31	0300-3025 N3			

Wide-necked bottles | easy to fill and clean, compact form, unbreakable



Wide-necked bottles for photosensitive liquids.

Robust bottle with wide opening incl. screw cap. Perfect suited for use with highly viscous liquids, powders, granulates and pastes.

Also available with imprint (see page 194).

### Wide-necked bottles

with screw cap

				LDPE			PP			LDPE, amber		
Capacity ml	Dia. x H mm	Neck dia. mm	Thread GL	Price/Unit	Price/Unit of (X) units	Article No.	Price/Unit	Price/Unit of (X) units	Article No.	Price/Unit	Price/Unit of (X) units	Article No.
50	40x80	24	32	0,85	(100) 0,68	0318-0050 N3						
100	48x95	24	32	1,11	(100) 0,83	0318-0100 N3	1,18	(100) 0,88	0319-0100 N3			
250	64x127	31	40	1,44	(50) 1,11	0318-0250 N3	1,61	(50) 1,20	0319-0250 N3	1,86	(25) 1,40	0320-0250 N3
500	77x158	39	50	2,35	(50) 1,79	0318-0500 N3	2,65	(50) 1,99	0319-0500 N3	3,17	(25) 2,32	0320-0500 N3
750	88x176	39	50	3,48	(98) 2,76	0318-0750 N3						
1000	94x207	50	65	3,90	(50) 3,02	0318-1000 N3	4,42	(50) 3,98	0319-1000 N3	5,50	(25) 4,40	0320-1000 N3
1500	108x232	50	65	5,60	(46) 4,50	0318-1500 N3						
2000	120x252	50	65	6,05	(50) 4,58	0318-2000 N3						

## Sealable wide-mouth containers | large opening

## Wide-mouth containers with handle



All sizes can be sealed



Intermediate lid



Sealable Wide-mouth containers made of transparent polyethylene. With intermediate lid. The wide opening makes cleaning easy. All sizes of bottles can be sealed.

- ▶ Suitable for food contact applications
- ▶ Multitude of uses

Containers with 2.3 l or 4.4 l capacity and especially wide opening. Consequently, ideal for filling with bulk goods of all kinds. Products such as spices, tea, granulates can be packaged, stored or displayed as samples in these containers.

- ▶ Integral handle gives safe and sure handling
- ▶ Transparent HDPE provides good view of contents
- ▶ Leakproof wide-neck cap

### Sealable Wide-mouth containers

Capacity l	Bottle-diameter mm	Height mm	Opening-diameter mm	Price/unit	Price/Unit of (X) units	Article No.
2	120	235	82	10,50	(10) 9,55	1406-0002 N3
3	135	285	82	12,25	(10) 11,00	1406-0003 N3

### Wide-mouth containers with handle

Capacity nominal ml	Capacity brim-full ml	L x W x H with cap mm	Inner neck-dia. mm	Outer thread-dia. mm	Price/unit	Price/unit of (X) units	Article No.
with tamper-evident screw cap made of blue PP							
2300	2300	135x135x192	68,5	80	7,30	(36) 6,75	0317-2300 N3
with screw cap made of LDPE							
4400	4554	142x142x263	109	120	9,05	(52) 8,60	0317-4400 N3

## Multi-Bottles with graduation | for universal use

## UN-bottle | UN-certified



The modern alternative to wide-neck and narrow-neck bottles. For multifunctional use. The medium-sized opening ensures good filling and safe emptying.

- ▶ Bottle made of HDPE with cap made of PP
- ▶ Embossed contents scale
- ▶ Absolutely leakproof

This bottle reduces packaging costs! It is UN tested and approved. Bottle made of HDPE, spill-proof, complete with PR tamper-evident closure with PTFE sealing. Available in three sizes from 0.5 l to 2.5 l contents. The bottles are excellent for packaging purposes, sampling, sending samples, storage and shipping via the post office.

- ▶ Totally leakproof
- ▶ With UN approval for liquids  
1H1/X19/250/00/D/BAM/6070/KBM
- ▶ Transparent; also available in black on request

**Bulk Prices**

Bell-shaped caps with or without degassing on request. UN approval see page 158

### Multi-Bottles with screw cap

Capacity ml	Dia. x H without cap mm	Inner neck dia. mm	Graduation ml	Thread dia. mm	Price/unit	Price/unit of (X) units	Article No.
100	46 x 99,5	19	25	25	0,92	(10) 0,84	0301-0100 N3
250	61 x 129,5	24	50	28	1,29	(10) 1,19	0301-0250 N3
500	76 x 161	30,8	50	40	2,07	(10) 1,89	0301-0500 N3
1000	97 x 203	39,2	100	50	3,38	(4) 3,12	0301-1000 N3

### UN-Bottle with screw cap

Capacity ml	LxWxH capless mm	Inner Neck dia. mm	Weight g	UN approval	Price/unit	Price/unit of (X) units	Article No.
500	77 Ø/177	29	50	1H1/X1.9/250	2,93	(120) <b>2,59</b>	0304-0500 N3
1000	96x96x212	29	88	3H1/X1.9/250	3,69	(64) <b>3,56</b>	0304-1000 N3
2500	127x127x282	29	163	3H1/X1.9/250	6,75	(26) <b>6,25</b>	0304-2500 N3

## Aluminum bottle | UN-approval for dangerous goods

## Sealable wide-necked bottles | secure



Aluminum transport bottles, safe, tight seal, approved for packaging type I (X). The UN-code is printed in black on the bottles.

- ▶ Inner lacquer is FDA-conform
- ▶ Pure aluminum (AL 99.5)
- ▶ Viton seal
- ▶ UN-approved
- ▶ With eyelets; can be sealed



Seals can be found on page 119, seal-it can be found on page 120. UN approval see page 158



Stable bottle with sealing eyelets on screw cap and bottle. Particularly suitable for mailing samples. Seals provide increased sample authenticity. Wide opening, easy to fill. Suitable for viscous liquids, powders, granulates and pastes.

- ▶ Made of HDPE
- ▶ Leakproof
- ▶ Wide opening for easy filling

Seals can be found on page 119, seal-it can be found on page 120

Aluminum bottle with screw cap										
Capacity ml	Dia- meter mm	Height mm	UN approval	Price/ Unit	Price/Unit of (X) units	Article No.				
125	50	105	1B1/X/250/xx/D/BAM 9190	12,90	(10) 11,55	0329-0125 N3				
250	65	140	1B1/X/250/xx/D/BAM 9190	<b>15,20</b>	(10) 13,85	0329-0250 N3				
500	80	145	1B1/X/250/xx/D/BAM 9186	<b>18,60</b>	(10) 17,15	0329-0500 N3				
1250	100	205	1B1/X/250/xx/D/BAM 9187	<b>20,20</b>	(10) 18,30	0329-1250 N3				

Labels with imprint Reference sample						
sheet with 24 adhesive labels (size: 35 mm x 65 mm)						
				2,52	(10) <b>2,27</b>	5399-0004 N4

Sealable Wide-necked bottles										
Nom. capac. ml	Bottle- dia. mm	Height with cap mm	Inner neck-dia. mm	Price/ unit	Price/Unit of (X) units	Article No.				
250	64	118	26.5	1,98	(25) 1,71	0322-0250 N3				
500	78	147	40	2,05	(25) 1,79	0322-0500 N3				
1000	100	186	50	4,17	(10) 3,48	0322-1000 N3				
2000	120	230	50	4,78	(10) 4,11	0322-2000 N3				

Safety-seals with consecutive numbers					
Thread length mm	Thread dia. mm	Color	Price/pack 1 pack (100 pcs.)	Price/pack 10 packs (1000 pcs.)	Article No.
290	2	red	<b>59,30</b>	56,15	5399-2902 N2



Particularly suitable for storage, transport or shipment of substances and reference samples that must be free from all contamination. Additional features: can be emptied completely, odourless, impermeable to light, corrosion-resistant. Comply with the PCB regulation.

- ▶ Made of pure aluminum (material AL 99.5)

#### seal-it® Security seal

- ▶ Security provided by unique 7-digit control number
- ▶ Fits any bottle, can, bag, container
- ▶ Additional documentation label with same number
- ▶ Detailed information on page 120

Aluminum bottle with original-seal screw cap made of PP with internal aluminum seal and tear-off ring



Capacity ml	Bottle dia. with cap mm	Height mm	Price/Unit	Price/Unit of (X) units	Article No.
38	35	70	1,20	(100) 1,09	0327-0038 N3
60	40	88	1,31	(100) 1,19	0327-0060 N3
120	57	97	1,57	(143) 1,42	0327-0120 N3
300	57	160	2,09	(149) 2,05	0327-0300 N3
600	74	192	3,03	(84) 2,96	0327-0600 N3
1200	88	248	3,59	(130) 3,43	0327-1200 N3

Labels Reference sample refer to table on page 150.

# Bottle crates and bottle carriers | safe, practical, handy, especially suitable for internal transport



① Bottle carrier

- ▶ For 6 bottles with maximum diameter 95 mm



② Bottle carrier

- ▶ For 8 bottles with maximum diameter 95 mm



③ Bottle crate

- ▶ Stackable
- ▶ Special transport trolley enables easy conveyance (fits for all crates).

## Bottle carrier

	Number of bottle positions	Max. bottle-dia. mm	Dimensions LxWxH mm	Price/Unit	Price/Unit of (X) units	Article No.
①	6	95	330x255x280	10,20	(10) 9,35	0361-0006 N3
②	8	95	420x300x210	21,85	(10) 19,85	0361-0008 N3

## ③ Bottle crate

	Container capacity litre	Dimensions LxWxH mm	Price/Unit	Price/Unit of (X) units	Article No.
	38	600x400x200	31,95	(10) 29,00	3414-0138 N2
	48	600x400x250	36,40	(10) 33,20	3414-0148 N2
	Lid for all crates		15,50	(10) 14,25	3414-0002 N2
	Transport cart for all crates		68,65	(10) 62,40	3414-9900 N2



## We are not afraid to show our faces!

If you want to know who the person on the other end of the phone line is, just have a quick look at our homepage. Under the Internet address [www.buerkle.de](http://www.buerkle.de) you will find brief portraits and photos of your contact persons in the sales, book-keeping, dispatch and R&D sectors.

## Dropping bottles | for controlled dosing drop by drop



Particularly suitable for liquids which must be specially dispensed in small amounts, drop by drop or as a fine jet.

Cut off dropper tip before first use. Can be reclosed tightly using the captive cap provided.

**\* Bulk Prices**



## Drop-Boy | the reclosable dropping bottle with screw cap



Bottle with drop dispenser and separate screw cap. Cut off dropper tip before first use.

- ▶ reclosable
- ▶ Precise drop dosing

### Narrow-necked bottles LDPE with drop dispenser and attached cap PE



Capacity ml	Bottle-dia. mm	Height with screw cap mm	Inner neck dia. mm	Thread dia. mm	Price/Unit	Price/Unit of (X) units	Article No.
10	26	76	9	14	0,44	(100) 0,42	0306-0010 N3
20	32	88	9	14	0,49	(100) 0,47	0306-0020 N3
30	35	96	9	14	0,58	(50) 0,54	0306-0030 N3
50	40	116	13	18	0,74	(50) 0,71	0306-0050 N3
100	45	136	13	18	0,81	(25) 0,77	0306-0100 N3
250	61	170	18	25	1,42	(25) 1,35	0306-0250 N3
500	75	204	18	25	2,11	(20) 2,01	0306-0500 N3
1000	95	248	21,6	28	3,17	(10) 3,03	0306-1000 N3

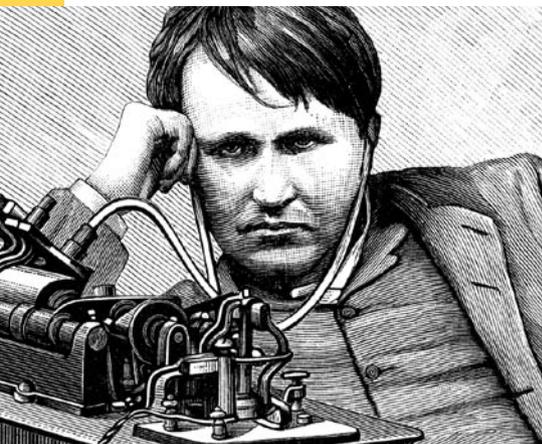


Washing bottle with bent outlet spout can be found on page 154 in this catalogue.

### Drop-Boy



Capacity ml	Price/Unit	Price/Unit of (X) units	Article No.
10	0,54	(100) 0,49	0307-0010 N3
25	0,67	(100) 0,61	0307-0025 N3
50	0,78	(100) 0,71	0307-0050 N3



A good idea that goes to waste in a drawer due to lack of time or money is a help to nobody.

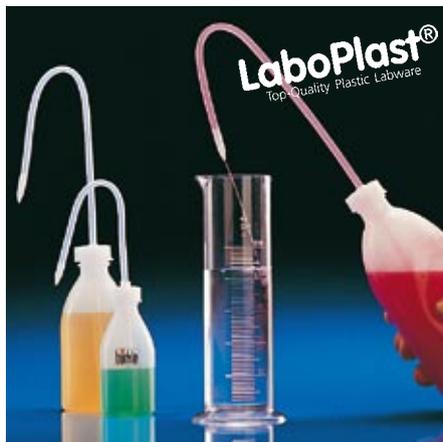
The Inventor's Market is looking for good ideas, product improvements and constructive criticism.

Of course, we are constantly producing more innovative products and improving our traditional ones.

"But what about all the good ideas of our users that lie dormant?" we have asked ourselves. Now we are asking you directly: You have probably cursed at one time or another, because a tool was good in your daily work but not perfect. Help us to make it better.

With our Inventor's Market, we want to promote your good ideas and change them into cash for you and us. If you are interested and have one or more ideas for improvements, see [www.buerkle.de](http://www.buerkle.de) > News > Monthly draw > Edison

## Wash bottle | transparent LDPE



The swan-neck jet produces a fine, straight spray with no lateral spatter.

- ▶ Made of LDPE
- ▶ Transparent
- ▶ Immersion tube can be pulled up

Wash bottle made of LDPE				
Capacity ml	Dia. x H mm	Price/Unit	Price/Unit of (X) units	Article No.
100	45x200	1,24	(100) 1,14	0310-0010 N3
250	61x225	1,68	(100) 1,56	0310-0025 N3
500	75x270	2,18	(100) 2,00	0310-0050 N3
1000	98x315	3,59	(50) 3,28	0310-0100 N3

## Wash bottle | PFA

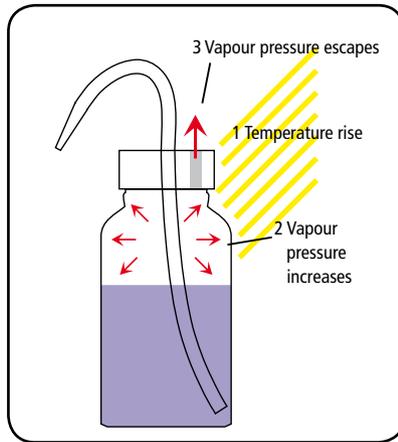


With bent spout tube made of FEP with tapered tip and screw thread made of ETFE.

- ▶ Highly transparent
- ▶ Sterilizable

Wash bottle made of PFA				
Capacity ml	Dia. mm	Height mm	Price/Unit	Article No.
500	76	189	116,50	0310-1050 N3
1000	96	233	149,75	0310-1100 N3

## Safety wash bottle | with venting system



The vapour-permeable membrane reliably prevents leaking of the contents when temperatures rise.

Wash bottles with safety closure. Leaking of the contents when temperatures rise is automatically prevented.

- ▶ Capacity 500 ml
- ▶ Bottle made of LDPE, screw closure made of PP
- ▶ Print in English and German
- ▶ Color of cap: red

Registered design.

### Safety wash bottle



Label in German, English and French	Price/unit	Price/unit of (X) units	Article No.
Distilled water	<b>7,70</b>	(12) 6,95	0310-2050 N3
Acetone	7,70	(12) 6,95	0310-2051 N3
Isopropanol	7,70	(12) 6,95	0310-2055 N3
Ethanol	7,70	(12) 6,95	0310-2054 N3
Methanol	7,70	(12) 6,95	0310-2052 N3
Without imprint	7,70	(12) 6,95	0310-2056 N3

## Wide-necked wash bottle | labelled



With multilingual contents label and danger symbols.

- ▶ Made of yellow-transparent LDPE (light protection)
- ▶ Wide-neck shape for easy filling
- ▶ Neck diameter 39 mm
- ▶ Capacity 500 ml

### Wide-necked Wash bottle made of LDPE



Label	Color cap	Price/Unit	Price/Unit of (X) units	Article No.
Acetone	red	<b>6,65</b>	(100) 5,70	0310-3055 N3
Methanol	green	6,65	(100) 5,70	0310-3052 N3
Ethanol	orange	6,65	(100) 5,70	0310-3053 N3
Isopropanol	blue	6,65	(100) 5,70	0310-3054 N3
Distilled water	transparent	6,25	(100) 5,70	0310-3051 N3
without label – neutral	yellow	5,95	(100) 5,40	0310-3050 N3

## Spray bottle | environmentally sound



Pressureless spray bottle made of LDPE with long-life hand pump. The sprayer is made of high-quality materials. The functioning of each individual sprayer is tested after manufacture.

Fields of application: industry, laboratories, production, leisure activities

Suitable for agricultural pesticides, detergents, foodstuffs.

- ▶ Media-contacting parts: PP, PE and stainless steel
- ▶ Nozzle 0.6 mm dia., nozzle steplessly adjustable
- ▶ Spray volume per stroke: 1.2 ml ± 0.1
- ▶ Patented venting valve

### Spray bottle

Capacity ml	Bottle-dia. mm	Height with cap mm	Inner neck dia. mm	Price/Unit of (X) units	Price/Unit of (X) units	Article No.
250	60	220	19	4,42	(70) 3,95	0309-1025 N4
500	75	240	19	4,99	(80) 4,47	0309-1050 N4
1000	95	295	19	5,10	(50) 4,73	0309-1100 N4

## Pressure atomiser | no harmful propellant gas



Robust industrial quality for disinfection, cleaning, plant protection, thin layer chromatography, technical and sanitary use. The hand pump is used to produce a pressure of up to 4 bar in the container. Spraying can then take place by pressing a button.

- ▶ Media-contacting parts: PP, PE, glass-fiber-reinforced PA, AISI 304, Viton
- ▶ Bottle made of HDPE
- ▶ Nozzle 0.6 mm dia.
- ▶ Spray lance 30 cm long available as accessory
- ▶ nozzle steplessly adjustable
- ▶ 1500 ml graduation

### Pressure atomiser with short nozzle

Capacity ml	Bottle-dia. mm	Height with cap mm	Inner neck-dia. mm	Price/Unit	Price/Unit of (X) units	Article No.
① 1500	142	315	45	28,80	(50) 25,80	0309-0100 N4
②  Spraying lance, 30 cm long				17,90	(10) 16,00	0309-0101 N4

## Spray bottle | with pump vaporiser



Spray bottle with pump vaporiser and protective cover for the pump. You can vaporize liquids finely at the push of a button in an environmentally compatible way. The transparent bottles make identification of contents easy. The protective cover prevents unintentional pressing of the pump and acts as a dust cover.

- ▶ Bottle made of HDPE, pump vaporiser made of PP and stainless steel
- ▶ 20, 25 and 30 ml available on request

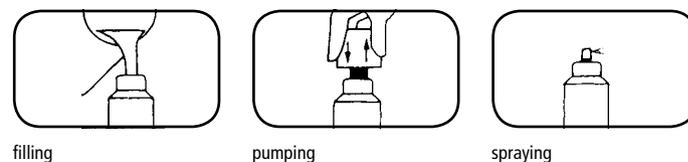
### Spray bottle complete with pump vaporiser and protective cover

Capacity ml	Diameter mm	Height with cap mm	Price/unit	Price/Unit of (X) units	Article No.
50	35	110	1,70	(10) 1,48	0309-3005 N3
100	37	161	1,20	(10) 1,13	0309-3100 N3
250	50	222	1,42	(10) 1,31	0309-3025 N3

## AirSpray pressurised dispenser



With bottle made of HDPE. Powered by compressed air that is made by pumping with the dispensers lid. Environmentally friendly, no harmful propellant gas is used. The canisters can be individually styled with labels or by printing. The dispensers standard colour is white/clear.



### AirSpray pressurised dispenser

Capacity ml	Height with pump mm	Diameter mm	Price/Unit	Price/Unit of (X) units	Article No.
150	160	51	3,69	(10) 3,54	0309-4015 N3
250	214	51	4,68	(10) 4,42	0309-4025 N3

# Packaging containers with UN approval

## What is a container with UN approval?

The person who fills a package with hazardous materials is responsible for its safety on dispatch. In a UN approved container you can transport hazardous goods safely without having to repack them and thus save costs.

## What is "UN-approved"?

The UN has drawn up a list of more than 6000 hazardous substances classified according to the risk that they represent; this determines their packaging group. Packaging group I (X) corresponds to a high degree of risk represented by the contents, e.g. very corrosive substances; packaging group II (Y) a medium degree of risk and packaging group III (Z) less hazardous substances.

The UN approval describes the type of packaging to be used for the transport of hazardous substances. The certificate is issued by recognized material testing institutes. In mass production the manufacturer must guarantee that the product meets the specifications for the type of packaging and that the packaging is manufactured and tested according to a quality assurance program recognized and monitored by the registration office.

## Test criteria (limits must not be infringed)

- ▶ chemical compatibility
- ▶ temperature
- ▶ flash point < 61 °C
- ▶ drop height
- ▶ pressure (i.e. vapor pressure of the contents plus partial pressure of any gases that may be present)
- ▶ packaging groups I, II, III (density kg/l)
- ▶ shelf life from filling date (if applicable)

## Approval numbers

- ▶ The identification contains the symbol for UN-tested packaging, the code for the container material, packaging group, test pressure in kPa, year of manufacture, country of approval, registration office, approval number and manufacturer.
- ▶ If the approval number contains a letter (e.g. F or S) in the position that would otherwise be occupied by the test pressure in kPa then the packaging is only approved for use with solids, not with liquids.
- ▶ New approval numbers apply for all types of transport, i.e. there is no longer any limitation to road, rail, sea or air transport.



**Wide-neck reagent bottle**  
rectangular/space-saving, sturdy  
With UN approval for solids

see page 159



**Aluminum bottle**  
with UN-approval for the transport of dangerous goods

see page 150



**UN-Bottle**  
UN-certified bottle for chemicals

see page 149



**Jerrycans**  
stackable, made of transparent HDPE, space-saving

see page 169



**Wide-mouth containers**  
extra-wide opening for secure filling

see page 168

## Wide-neck reagent bottle | UN approval for solids

## Narrow-neck reagent bottle | sturdy



Ideal bottles for storing, packaging, specimens, samples and transport of pastes and granules.

- ▶ Made of transparent HDPE
- ▶ Tamper-evident screw cap made of blue PP
- ▶ UN approval for solids

**Bulk Prices**

### Wide-neck reagent bottle

Capacity ml	LxWxH mm	Thread	UN approval	Price/Unit	Price/Unit of (X) units	Article No.
50	40 x 40 x 80	28	–	1,34	(700) 1,23	0342-0050 N3
100	45 x 45 x 101	32	UN3H1/X0.3	1,21	(582) 1,10	0342-0100 N3
250	60 x 60 x 128	45	UN3H1/X0.8	1,76	(273) 1,58	0342-0250 N3
500	75 x 75 x 161	54	UN3H1/X1.5	2,05	(124) 1,87	0342-0500 N3
750	97 x 97 x 179	60	UN3H1/X2.5	2,07	(90) 1,93	0342-0750 N3
1000	85 x 85 x 210	54	UN3H1/X2.5	2,10	(81) 2,04	0342-1000 N3
1500	111 x 111 x 209	80	UN3H1/X4	3,33	(42) 3,07	0342-1500 N3
2500	122 x 122 x 258	80	UN3H1/X5	4,40	(27) 3,90	0342-2500 N3
4000	142 x 142 x 294	80	UN3H1/X5.5	5,50	(15) 4,99	0342-4000 N3

All-purpose bottles for storing, packaging and transport of liquids.

- ▶ HDPE transparent
- ▶ PP tamper-evident screw cap, blue

**Bulk Prices**

### Narrow-necked bottle

Capacity nominal ml	LxWxH mm	Opening dia. mm	Price/Unit	Price/Unit of (X) units	Article No.
100	45 x 45 x 108	17	1,35	(25) 1,26	0340-0100 N3
250	60 x 60 x 135	17	1,65	(25) 1,60	0340-0250 N3
500	75 x 75 x 170	17	1,94	(25) 1,86	0340-0500 N3
1000	85 x 85 x 221	17	2,51	(20) 2,40	0340-1000 N3
2500	122 x 122 x 271	28	6,15	(10) 5,95	0340-2500 N3

# Square bottles | space-saving, rectangular design, handy and sturdy, wide- and narrow-necked types



Budget-priced square-shaped bottle for shipping, packing and storing of liquids.

- ▶ Made of transparent HDPE, breakproof
- ▶ Special labelling area for labels or manual inscription
- ▶ Suitable as a disposable bottle
- ▶ Leakproof
- ▶ With screw cap

**Bulk Prices**



Budget-priced square-shaped bottle for shipping, packing and storing of liquids, powders and granules.

- ▶ Made of transparent HDPE, breakproof
- ▶ Special labelling area for labels or manual inscription
- ▶ Leakproof

**Bulk Prices**

## Square bottle with screw cap



Capacity ml	Bottle LxWxH mm	Thread-dia. mm	Inner neck-dia. mm	Outer neck-dia. mm	Price/Unit	Price/Unit of (X) units	Article No.
100	41x34x113	18	13	17,5	0,54	(100) 0,50	0332-0100 N3
250	51x44x160	25	17,5	24,6	0,77	(100) 0,72	0332-0250 N3
500	68x53x182	25	17,5	24,6	0,95	(100) 0,87	0332-0500 N3
1000	90x64x230	25	17,5	24,6	1,50	(100) 1,35	0332-1000 N3

### Dropper tips

for 0332-0100	0,25	(100) 0,24	0300-3018 N3
for 0332-0250, -0500, -1000	0,33	(100) 0,31	0300-3025 N3

## Narrow-necked Square bottle



Capacity ml	Bottle LxWxH mm	Thread-dia. mm	Inner neck-dia. mm	Outer neck-dia. mm	Price/Unit	Price/Unit of (X) units	Article No.
20	27x27x51	18	13	17,7	0,40	(100) 0,37	0331-0020 N3
50	35x36x77	18	13	17,5	0,50	(100) 0,48	0331-0050 N3
100	46x46x78	25	17,5	24,7	0,61	(100) 0,55	0331-0100 N3

## Wide-necked Square bottle

250	80x80x86	50	38,5	48,5	1,97	(100) 1,62	0338-0250 N3
500	90x90x125	65	50	64,5	2,42	(100) 2,02	0338-0500 N3
1000	90x90x175	65	50	64,5	2,35	(100) 2,16	0338-1000 N3

## Laboratory bottles | unbreakable, square



High-quality reagent bottle for universal use. Unbreakable at room temperature, easily operated screw thread. With moulded-in raised graduation.

- ▶ Glass-clear PC, sterilizable
- ▶ Tamper-proof closure
- ▶ With moulded-in raised graduation



For use in labs and chemicals handling area. Good product presentation due to highly transparent PP and glass-clear PET. Space saving and absolutely leakproof. Ideal for storage and packaging of liquids.

- ▶ With tamper-proof closure
- ▶ With moulded-in raised graduation

### Laboratory bottles made of PC with screw cap made of PP

Capacity ml	LxWxH with cap mm	Inner neck-dia. mm	Thread-dia. mm	Price/Unit	Price/Unit of (X) units	Article No.
125	55x55x109	28	37	6,05	(6) 5,30	0316-0125 N2
250	61x61x145	28	37	7,50	(6) 6,95	0316-0250 N2
1000	95x95x218	28	37	17,80	(4) 16,10	0316-1000 N2
2000	116x116x275	39	53	41,20	(6) 37,55	0316-2000 N2

### Laboratory bottles made of PP transparent

Capacity ml	L x W x H mm	Inner neck-dia. mm	Price/unit	Price/unit of (x) units	Article No.
250	64 x 64 x 135	31,7	1,08	(134) 0,97	0371-0250 N2
500	74,2 x 74,2 x 173	31,7	1,38	(80) 1,25	0371-0500 N2

### Laboratory bottles made of glass-clear PET

250	64 x 64 x 135	31,7	1,27	(134) 1,15	0370-0250 N2
500	74,2 x 74,2 x 173	31,7	1,70	(80) 1,53	0370-0500 N2

## Wide-necked boxes, round | durable, transparent

## Sample container, round



Wide-mouth boxes for easy filling with good shatterproof qualities. Especially suited for shipping liquid, powder and granular materials.

- ▶ Made of transparent HDPE, unbreakable
- ▶ Screw cap made of PP, seal made of PE

Sample tubes with screw cap. Ideal for sampling and transport. Available in two materials: PP for powder, pastes, liquids, PFA for ultra-clean sampling. Crevice-free interior..

- ▶ Tubes made of PP and PFA sterilizable
- ▶ thick-walled

### Bulk Prices

#### Wide-mouth bottles, round with screw cap



Capacity ml	Bottle-dia. mm	Height with cap mm	Inner neck-dia. mm	Price/Unit	Price/Unit of (X) units	Article No.
100	48	79	31	1,09	(100) 0,98	6282-0100 N3
250	66	102	41	1,58	(100) 1,40	6282-0250 N3
500	81	124	54	2,02	(100) 1,82	6282-0500 N3
750	95	132	54	2,27	(108) 2,20	6282-0750 N3
1000	101	155	69	2,51	(75) 2,44	6282-1000 N3
1500	115	175	69	3,28	(48) 2,93	6282-1500 N3
2000	126	195	69	4,07	(40) 3,69	6282-2000 N3

#### Sample tubes highly transparent PP



Capacity ml	Tube inner Ø x height mm	cap Ø mm	Price/Unit	Price/Unit of (X) units	Article No.
60	35 x 93	50	6,35	(10) 5,50	6203-0060 N3
180	50 x 119	65	9,15	(10) 8,00	6203-0180 N3

#### Sample tubes ultrapure PFA, transparent



90	50 x 65	65		(10) 39,60	6205-0090 N3
180	50 x 119	65	56,15	(10) 49,80	6205-0180 N3

## FlipTop sample tubes



Sample tubes with FlipTop closure. A molecular drying agent is incorporated in the wall of the tube. Ideal for protecting sensitive products such as glucose test strips and other diagnostic products against moisture. The sample tubes are produced under clean room conditions and formed at over 100 °C in the injection molding machine, so that the insides of the tubes are virtually sterile. This method makes the tubes absolutely leak-proof, as the cap and tube adapt optimally to each other during the cooling process. Undercut-free, so easy to fill and can be emptied completely.

- ▶ PP, white
- ▶ Aseptic
- ▶ Easy to open and close, one-hand operation

### Sample tubes PP white

Capa- city ml	H x Ø mm	Price/ Unit	Price/Unit of (X) units	Article No.
169	101 x 51.5	1,55	(10) 1,48	6207-0169 N3

## Sample tubes | aseptic, with seal



The sample tubes are produced under clean room conditions and formed at over 100 °C in the injection molding machine, so that the insides of the tubes are virtually sterile. This method makes the tubes absolutely leak-proof, as the cap and tube adapt optimally to each other during the cooling process. Undercut-free, so easy to fill and can be emptied completely. With seal guaranteeing virtual sterility until first-time opening.

- ▶ PP, transparent
- ▶ Aseptic
- ▶ Size 340 ml with scale
- ▶ Can be sealed

### Sample tubes PP transparent

Capac. ml	H x Ø mm	Price/ Unit	Price/Unit of (X) units	Article No.
55	84 x 29	0,28	(10) 0,27	6207-0055 N3
340	119 x 63	0,46	(10) 0,44	6207-0340 N3

## Tubes | with screw cap



Screw cap tubes with screw cap. Nicely designed packaging can. Crevice-free interior.

- ▶ 8 sizes
- ▶ Sterilizable

### Screw cap tubes white PP

Capa- city ml	Tube Dia. x H mm	Price/ Unit	Price/Unit of (X) units	Article No.
12	25x31	0,18	(100) 0,16	6214-0012 N3
25	31x40	0,28	(100) 0,23	6214-0025 N3
60	41x56	0,51	(100) 0,41	6214-0060 N3
90	53x50	0,56	(100) 0,46	6214-0090 N3
125	52x67	0,64	(100) 0,51	6214-0125 N3
250	69x78	1,04	(100) 0,82	6214-0250 N3
600	90x114	1,14	(100) 0,92	6214-0600 N3
1000	102x129	2,81	(100) 2,18	6214-1000 N3

## Tubes | with screw cap



Contents clearly distinguishable through transparent wall. Crevice-free interior.

- ▶ 3 sizes

## All-purpose boxes | square shaped



All-purpose boxes, square shaped, for storing, packaging, specimens, samples and transporting pastes, granulates, powders, soil samples and frozen material. Temperature range from -40 °C up to (for short terms) +95 °C

Supplied completely with press-in lids.

- ▶ Made of transparent PE
- ▶ Stackable
- ▶ Crevice-free

## All-purpose boxes | round



All-purpose boxes, round, for storing, packaging, specimens, samples and transporting pastes, granulates, powders, soil samples and frozen material. Temperature range from -40 °C up to (for short terms) +95 °C

Supplied completely with press-in lids.

- ▶ Made of transparent PE
- ▶ Stackable
- ▶ Crevice-free

### Screw cap tubes transparent PP



Capacity ml	Tube Dia. x H mm	Price/Unit	Price/Unit of (X) units	Article No.
250	104 x 50	3,12	(25) 2,76	6202-0250 N3
500	104 x 100	4,00	(14) 3,64	6202-0500 N3
1000	126 x 126	7,20	(12) 6,65	6202-1000 N3

### All-purpose boxes square shaped



Capacity ml	Dimensions LxWxH	Price/Unit mm	Price/Unit of (X) units	Article No.
500	103x103x64	1,79	(20) 1,63	6250-0500 N3
1000	103x103x127	2,76	(16) 2,42	6250-1000 N3
1000	207x103x64	3,38	(18) 3,07	6250-1001 N3
1500	207x103x94	4,52	(20) 4,11	6250-1500 N3
2000	208x208x64	6,15	(20) 5,40	6250-2000 N3
2300	255x103x94	5,50	(20) 4,99	6250-2300 N3
3500	208x208x94	6,75	(14) 6,25	6250-3300 N3

### All-purpose boxes round



Capacity ml	Outside-dia. above/below mm	Height mm	Price/Unit	Price/Unit of (X) units	Article No.
250	78/60	90	2,17	(60) 1,99	6210-0250 N3
500	95/75	127	2,46	(24) 2,25	6210-0500 N3
1000	136/118	110	3,22	(20) 2,86	6210-1001 N3
2000	169/148	143	5,05	(25) 4,68	6210-2000 N3

## Multi-purpose cups | graduated



Multi-purpose cups with leakproof screw cap, suitable for shipping, can be labelled. Empty cups are stackable.

- ▶ Made of transparent PP
- ▶ Sterilizable
- ▶ Breakproof at room temperature
- ▶ Moulded-in graduations with 10 ml subdivisions

## Sample boxes, round



With patented closure, ideal for 1-hand use. The lid hinge angle is 90°. Closure 100 % leakproof. No undercuts, so easy to fill and empty without residues.

The tube is produced under aseptic conditions. It is autoclavable and can be deep-frozen.

- ▶ Made of transparent PP
- ▶ Aseptic
- ▶ With labelling area and graduation for the sizes 50 ml and 300 ml

## Sterilized dipping tubes



For sterile sampling of liquids or powders. The sample is collected directly in the sampling container and sent for analysis. Prevents cross-contamination.

The dipping tube has a patented closing lid.

- ▶ Made of blue transparent PP
- ▶ Sterilized, individually packed
- ▶ Length of removable handle 24 cm.

### Multi-purpose cups



Capacity ml	Price/Unit	Price/Unit of (X) units	Article No.
100	0,83	(100) 0,73	7103-0100 N3

Labels Reference sample refer to table on page 150.

### Sample boxes round



Capacity ml	Height x dia. mm	Price/Unit	Price/Unit of (X) units	Article No
50	80x33	0,27	(650) 0,25	6206-0060 N3
90	80x45	0,32	(350) 0,29	6206-0100 N3
300	92x65/75	0,84	(240) 0,77	6206-0300 N3

### Sterile dipping tubes



Capacity ml	Height x dia. mm	Price/Unit	Price/Unit of (X) units	Article No
100	80x45	2,76	(130) 2,45	6206-0101 N3

## Packaging bags | with the patented "zipper"

## SteriBag | the sterilized packaging bags



The bags with the patented "zipper" for storing, collecting, protecting and shipping of specimens, samples and sales products. Contents remain dust-free. The film is waterproof and has good tear resistance.

The multifunctional packaging and sampling bags for very different uses in chemistry, pharmaceuticals, medicine, veterinary science and foodstuffs. The bags are made of super-polyethylene and consequently are exceptionally tear-proof and leakproof.

- ▶ Made of glass-clear LDPE, 0.05 mm strong film
- ▶ With imprinted recycling-symbol
- ▶ 100 bags in pack

- ▶ Guaranteed sterilized
- ▶ Leakproof

**Bulk Prices**

**Bulk Prices**

Packaging bags				
L x W mm	Volume ml	Price/Pack* 1 pack	Price/Pack* of (X) packs	Article No.
130 x 60	100	4,42	(10) 4,00	2348-0001 N3
100 x 70	80	6,85	(10) 6,35	2348-0002 N3
120 x 80	140	4,99	(10) 4,58	2348-0003 N3
150 x 100	300	6,05	(10) 5,50	2348-0004 N3
170 x 120	400	7,80	(10) 7,20	2348-0005 N3
220 x 160	1000	10,20	(10) 9,35	2348-0006 N3
250 x 180	1500	11,15	(10) 10,30	2348-0007 N3
300 x 200	2500	13,95	(10) 12,70	2348-0008 N3
350 x 250	4500	18,10	(10) 16,20	2348-0009 N3
400 x 300	6500	20,70	(10) 18,80	2348-0010 N3

SteriBag, without labelling area					
Capacity ml	W x L mm	Bags per pack	Price per pack at 1 pack	Price per pack at (X) packs	Article No.
60	76 x 127	500	96,70	(6) 91,50	5344-0060 N3
180	76 x 178	500	99,85	(6) 93,60	5344-0180 N3
540	114 x 229	500	117,50	(6) 112,30	5344-0540 N3
720	140 x 229	500	131,05	(6) 123,75	5344-0720 N3
810	114 x 305	500	136,25	(6) 130,00	5344-0810 N3
1650	178 x 305	250	104,00	(12) 99,85	5344-1650 N3

SteriBag, with labelling area					
Capacity ml	W x L mm	Bags per pack	Price per pack at 1 pack	Price per pack at (X) packs	Article No.
60	76 x 127	500	105,05	(6) 99,85	5344-0061 N3
180	76 x 178	500	108,15	(6) 102,95	5344-0181 N3
540	114 x 229	500	124,80	(6) 117,50	5344-0541 N3
720	140 x 229	500	149,75	(6) 143,50	5344-0721 N3
810	114 x 305	500	144,55	(6) 137,30	5344-0811 N3
1650	178 x 305	250	117,50	(12) 108,15	5344-1651 N3

\* Minimum quantity per size 1 pack = 100 bags

Full description see page 100.

Labels Reference sample refer to table on page 150.

Wide-necked boxes, square shaped | clear or brown material, excellent product presentation



An extra-wide neck enables convenient bottle filling with liquid, powder or granular products such as tablets, capsules, dyes, shipments of samples, specimens, gift packages, hobby articles, spices, etc.

- ▶ PVC crystal-clear or amber-transparent
- ▶ PETG crystal-clear

Amber-transparent wide-mouth bottles are especially suited for storing photosensitive materials.

**Bulk Prices**

seal-it can be found on page 120

Wide-necked boxes with screw cap					PETG crystal clear			PVC crystal clear			PVC amber transparent		
Capacity ml	Length mm	Width mm	Height with cap mm	Neck-dia. mm	Price/Unit	Price/Unit of (X) units	Article No.	Price/Unit	Price/Unit of (X) units	Article No.	Price/Unit	Price/Unit of (X) units	Article No.
50	38	38	63	23	0,84	(100) 0,78	0357-0050 N3	0,71	(100) 0,62	0355-0050 N3			
100	46	46	75	31	0,98	(100) 0,88	0357-0100 N3	0,82	(100) 0,77	0355-0100 N3	0,81	(100) 0,76	0356-0100 N3
200	59	59	91	41	1,50	(100) 1,35	0357-0200 N3	1,22	(100) 1,12	0355-0200 N3	1,21	(100) 1,11	0356-0200 N3
300	66	66	98	41				1,35	(100) 1,25	0355-0300 N3			
500	80	80	111	54	2,18	(90) 1,99	0357-0500 N3	1,79	(90) 1,64	0355-0500 N3			
750	92	92	120	69				2,13	(57) 1,96	0355-0750 N3			
1000	95	95	152	69	2,86	(48) 2,75	0357-1000 N3	2,39	(48) 2,18	0355-1000 N3			
2000	120	120	190	69				3,90	(22) 3,55	0355-2000 N3			

Labels Reference sample refer to table on page 150.

# Disposal kegs, wide-mouth containers | extra-wide opening for secure filling



**UN** **Approval for bulk goods.** The Disposal kegs can be used for waste disposal or storage. For liquids, powders or granulates. Leakproof closure and sealable.

- ▶ Temperature resistant from -20 °C up to 80 °C
- ▶ UN-approval X, Kat. I, II, III

Seals can be found on page 119

Storage or transport container made of HDPE. For liquids, powders or granulates. Leakproof closure.

Keep the container upright when transporting liquids!

① Disposal kegs made of HDPE with UN approval

Capac. l	Keg-dia. mm	Height with cap mm	Opening-dia. mm	Price/Unit	Price/Unit of (X) units	Article No.
3,5	198	175	136	11,85	(10) 10,70	1105-0003 N3
6	198	266	136	15,20	(24) 13,75	1105-0006 N3
10	275	240	205	21,20	(8) 20,80	1105-0010 N3
26	316	425	204	35,35	(20) 31,95	1105-0026 N3
33	338	450	295	40,05	(36) 36,60	1105-0033 N3

② Wide-mouth containers made of HDPE

Capac. l	Cont.-dia. mm	Height with cap mm	Opening-dia. mm	Price/Unit	Price/Unit of (X) units	Article No.
5	192	250	110	20,70	(14) 19,90	1406-1005 N3
10	232	325	110	28,80	(6) 27,90	1406-1010 N3

Jerrycans | stackable, transparent HDPE, space-saving

Packaging buckets | round



Jerrycans for storage or transport with UN approval 3H1/X for transport and tamper-evident closure.

A screw cap with spigot is available as an accessory.

► With UN approval

**Bulk Prices**

Jerrycans made of HDPE with UN approval



Cap. l	Dimensions LxWxH mm	Weight g	Inner neck-dia. mm	Thread	Color	Price/Unit	Price/Unit of (X) units	Article No.
5	190x145x251	250	40,5	DIN50	transp.	4,40	(32) 3,95	1427-0005 N3
10	230x190x310	450	40,5	DIN50	transp.	5,50	(20) 4,94	1427-0010 N3
20	295x245x392	950	48	DIN60	blue	14,65	(6) 13,40	1427-0020 N3
30	326x284x427	1250	48	DIN60	blue	21,10	(6) 19,15	1427-0030 N3

**Accessories for jerrycans**

Screw closure with spigot for 1427-0005 and -0010	<b>6,25</b>	(10) 6,05	1427-9102 N3
Screw closure with spigot for 1427-0020 and -0030	6,95	(10) 6,35	1427-9100 N3
Original screw cap for 1427-0005 and -0010	0,47	(10) 0,44	1427-9105 N3
Original screw cap for 1427-0030 and -0020	0,99	(10) 0,90	1427-9106 N3

For transporting, packaging, and storing a variety of materials. Suitable for the food or building material industries, non-aggressive chemicals, environmental protection, hospitals, or domestic use. With handle.

- Made of white PP
- Air-tight closure
- Complete with lid
- With advertising printing in large quantities on request

**Bulk Prices**

Packaging buckets



Capac. l	Upper dia. mm	Height with lid mm	Price/Unit	Price/Unit of (X) units	Article No.
1	132	131	1,09	(100) 0,99	2327-0001 N3
2	175	132	1,72	(40) 1,58	2327-0020 N3
3	225	123	2,16	(45) 1,97	2327-0030 N3
5	225	194	2,76	(36) 2,45	2327-0050 N3
10	268	263	3,69	(25) 3,38	2327-0010 N3

Sturdy handle

Leakproof closure

Holds 5 litres

Suitable for foodstuffs

Attachment  
with breechlock nut

Easy-running  
discharge cock

Discharge angle can be rotated  
upward – no afterdripping

Original-seal closure  
with tear-off ring

Jerrycan and closure  
made of PP

Moulded graduation

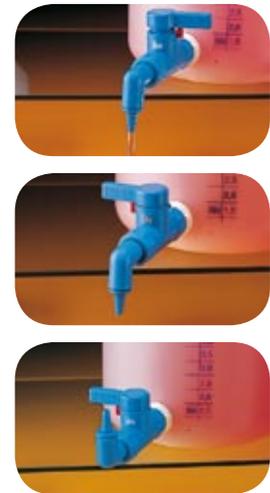
Stable shape and resistant  
to pressure

Sterilizable and largely  
chemical resistant

Only 65 mm wide

Standard thread  $\frac{3}{4}$ "

# LaboPlast Flachmann, the compact jerrycan | brings more contents onto less shelf width



Stopcock with rotatable discharge angle, which fits canisters equipped with glands with threads 3/4" (see page 40).

The Flachmann is ideal as a space-saving container with a width of only 6.5 cm. Different liquids can be stored and decanted in a small space. Flachmann can also be compactly stored laying on its sides e. g. in a refrigerator. It is very stable due to ribbed structure and thick walls. Using the Support stand for two or three canisters, any number of canisters can be placed in the open safely. Before autoclaving unscrew the cap so that the threads are not engaged.

- ▶ With or without threaded connector 3/4"
- ▶ Transparent PP
- ▶ Autoclavable without stopcock
- ▶ Moulded graduation
- ▶ Support stand for jerrycans made of aluminium for secure stand
- ▶ StopCock available as accessory

### Flachmann without threaded connector, with tamper-proof closure

Capac. l	Width mm	Depth mm	Height mm	Opening-dia. mm	Price/Unit	Price/Unit of (X) units	Article No.
5,0	65	335	335	41	24,25	(10) 21,85	0435-1050 N4

### Flachmann with threaded connector, just above base

5,0	65	335	335	41	25,90	(10) 23,20	0435-2050 N4
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Description	Price/Unit	Price/Unit of (X) units	Article No.
LaboPlast spigot StopCock 1 with drip preventer and tapered spout	19,35	(10) 17,35	0525-1000 N4
Screw cap 3/4" for threaded connector at base of 0435-	4,17	(10) 3,74	0600-0090 N4
Venting valve in screw cap	10,50	(10) 9,35	0435-9200 N4
Support stand for 2 compact jerrycans	16,85	(10) 15,30	0435-9102 N4
Support stand for 3 compact jerrycans	17,90	(10) 15,90	0435-9103 N4

## Wide-necked jerrycans | practical

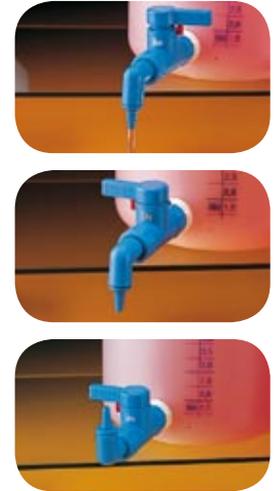


Extremely wide opening (88 mm), easy internal cleaning, which is especially important when storing sensitive substances. Handle and screw cap ensure safe and convenient transport.

- ▶ Made of transparent HDPE
- ▶ UV-stabilised



- ▶ Transparent HDPE
- ▶ UV-stabilised
- ▶ Litre graduation
- ▶ Spigot StopCock 1



Stopcock with rotatable discharge angle, which fits canisters equipped with glands with threads  $\frac{3}{4}$ " (see page 40).

- 🔧 Spigots or other accessories with  $\frac{3}{4}$ " internal thread with cap nut can be connected just above base to the threaded connector.
- Litre graduation

### Wide-necked jerrycan without threaded connector



Capacity l	Width mm	Depth mm	Height mm	Ventilation dia. mm	Price/Unit	Price/Unit of (X) units	Article No.
5	130	290	280	18	20,80	(6) 18,60	0431-0005 N3
10	137	310	400	18	29,65	(5) 26,75	0431-0010 N3
20	165	365	485	-	46,30	(3) 41,70	0431-0020 N3
30	240	365	485	-	58,25	(2) 50,95	0431-0030 N3

### Wide-necked jerrycan with threaded connector, just above base

5	130	290	280	18	26,75	(6) 24,00	0431-1005 N3
10	137	310	400	18	38,40	(5) 35,05	0431-1010 N3
20	165	365	485	-	57,20	(3) 50,25	0431-1020 N3
30	240	365	485	-	68,65	(2) 61,35	0431-1030 N3

Description	Price/Unit	Price/Unit of (X) units	Article No.
<b>LaboPlast spigot StopCock</b> with drip preventer and tapered spout with diameter 6 mm	19,35	(10) 17,35	0525-1000 N4
Ball valve NW 12 with feed tube	43,60	(5) 40,05	0500-0100 N4
Litre graduation, blue, for 5 l jerrycan	4,42	(12) 4,07	0431-9051 N3
Litre graduation, blue, for 10 l jerrycan	4,42	(10) 4,07	0431-9011 N3
Litre graduation, blue, for 20 l jerrycan	4,42	(6) 4,07	0431-9021 N3
Litre graduation, blue, for 30 l jerrycan	4,42	(4) 4,07	0431-9031 N3
Screw cap $\frac{3}{4}$ " for threaded connector at base of jerrycan with threaded connector	4,17	(10) 3,74	0600-0090 N4

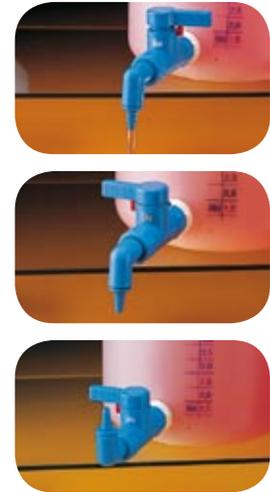
# Storage bottles, with/without threaded connector | stop-cock types can also be used as aspirators



UV-stabilised, heavy-walled, robust model with stable carrying handle for safe transport and storage. With blue printed-on litre graduations. The ventilating valve (accessory) allows air to enter the container, in order to prevent the formation of vacuum in it when draining liquid from it.



Stop-cocks or other accessories with a 3/4" inner thread with cap nut can be connected to the thread connector.



StopCock with rotatable discharge angle, which fits canisters equipped with glands with threads 3/4" (see page 40).

## Storage bottles made of HDPE without threaded connection

Capacity l	Bottle-dia. mm	Height capless mm	Opening-dia. appr. mm	No. of handles	Price/Unit	Price/Unit of (X) units	Article No.
5	167	330	50	1	21,00	(11) 19,05	0401-0005 N3
10	206	427	50	1	28,20	(6) 25,60	0401-0010 N3
25	278	580	50	2	58,25	(5) 53,05	0401-0025 N3

## Storage bottles made of HDPE with lateral threaded connection, just above base

Capacity l	Bottle-dia. mm	Height capless mm	Opening-dia. appr. mm	No. of handles	Price/Unit	Price/Unit of (X) units	Article No.
5	167	330	50	1	28,90	(11) 26,30	0402-0005 N3
10	206	427	50	1	36,10	(6) 32,55	0402-0010 N3
25	278	580	50	2	66,55	(4) 61,35	0402-0025 N3
60	346	830	50	2	115,45	(5) 107,10	0402-0060 N3

 Description	Price/Unit	Price/Unit of (X) units	Article No.
LaboPlast StopCock NW 8 with drip preventer	19,35	(10) 17,35	0525-1000 N4
Ball valve NW 12 with feed tube	43,60	(5) 40,05	0500-0100 N4
Ventilation seal for 0401/0402-0005 to -0025	14,65	(10) 13,60	0401-9100 N3
Screw cap 3/4" for threaded connector at base 0402	4,17	(10) 3,74	0600-0090 N4

## Directory of plastic labware



176 fish-clip®  
gentle stirring of mechanically sensitive liquids



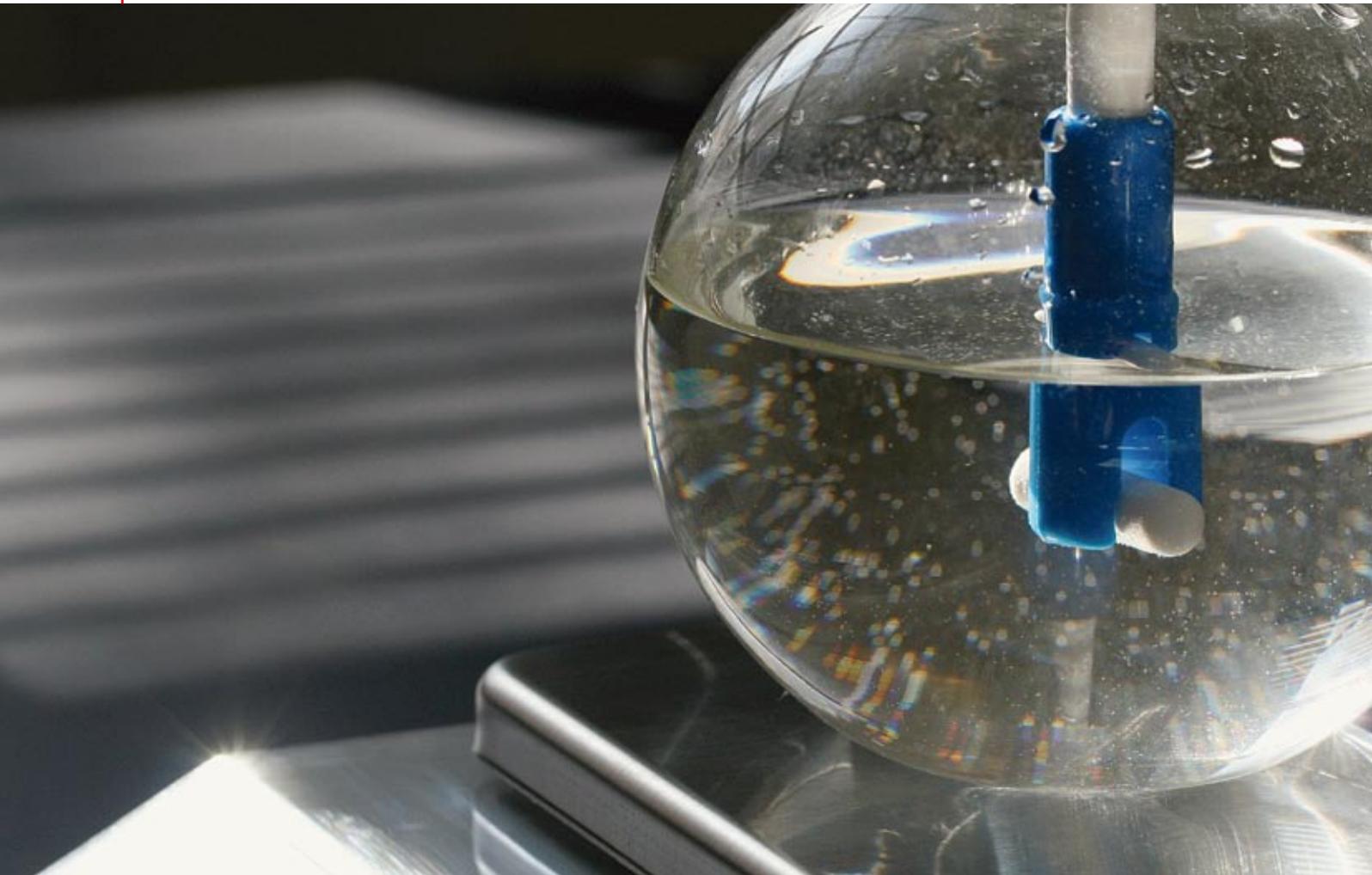
177 Baffle clips  
179 Draining rack  
181 Automatic burette  
185 Laboratory trays  
can be nested into one another



188 General purpose container  
stable, for everything that has to be kept clean



190 Funnels  
191 Funnel stand  
for 2 or 4 funnels  
192 Graduated beakers  
203 SnowPack dry ice machine  
- 79 °C cryogenic cooling on-tap  
210 Buckets



## Plastic labware

Trays, bottles, beakers, buckets, racks, pipettes, protective equipment and other laboratory supplies

# fish-clip® | gentle stirring of mechanically sensitive liquids



① Compression-type bung in silicone



② Compression-type fitting



③ Compression-type fitting with NS-cone

With fish-clip® cell cultures, abrasive media and other liquids that are sensitive to mechanical stress are gently stirred. No disruption of biocatalysts such as enzymes or cells. No scratching the vessel base, no broken vessels resulting from stirrer bars "jumping about".

## Simple handling

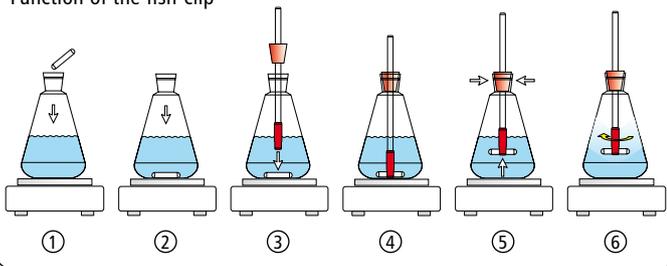
The patented fish-clip® keeps the magnetic stirrer bar "floating" above the magnetic stirrer. In the stirring vessel the magnetic stirrer bar is held by the elastic clip of the rotor. The support rod is then used to position fish-clip® at the required height above the base of the vessel. When the magnetic stirrer is switched on, fish-clip® rotates in a controlled manner and provides gentle stirring for both the sample and vessel base.

## Suitable for even narrow openings

fish-clip® can be used for gentle stirring in any type of vessel such as beakers, bottles, Erlenmeyer and round-bottom flasks.

- ▶ PVDF, autoclavable, outstanding chemical resistance
- ▶ For magnetic stirrer bars 6 or 8 mm dia.
- ▶ Rotor diameter 15 mm
- ▶ Support rod length 250 mm (other lengths available on request)

### Function of the fish-clip®



### fish-clip®

Description	for magnetic stirring bar dia. mm	Price/ Unit	Article No.
fish-clip® gastight, blue PVDF incl. stirring bar	6	31,10	8280-0006 N4
fish-clip® gastight, red PVDF incl. stirring bar	8	31,10	8280-0008 N4

### Ways of fastening the support rod

① Compression-type bung in silicone for NS 19/26 <sup>1)</sup>	2,81	8280-0257 N4
Compression-type bung in silicone for NS 29/32	3,90	8280-0253 N4
② Compression-type fitting GL 25 <sup>1)</sup> , red	3,29	8280-0254 N4
Compression-type fitting GL 32, gray	3,07	8280-0255 N4
③ Compression-type fitting GL 25 with NS-cone 19/26	22,80	8280-0256 N4
Compression-type fitting GL 32 with NS-cone 29/32	22,80	8280-0321 N4

<sup>1)</sup> NS: Normschliff = Standard Taper Ground Joint / GL: Glasgewinde = Glas Screw Thread

Magnetic stirrer is not supplied with fish-clip®  
Suitable Magnetic stirring bars you can find on page 178.

## Baffle clips | better media mixing



When agitating with magnet or overhead agitators, usually a laminar current with little turbulence tendency develops. Baffle clips disturb the flow direction and provide a substantially better mixing of the liquid in such a way. Baffle clips are made of PP. They come with two differently large and exchangeable blades, which fit in beakers from 1 l to 5 l.

- ▶ With small blade (15 x 160 mm) for 1 – 2 liter
- ▶ With large blade (30 x 230 mm) for 2 – 5 liter
- ▶ 1 Set consists of 1 clip and 1 blade of each size

This product idea has been developed together with Prof. Dr. Wolfgang Hasenpusch from Hanau.

### Baffle clips PP, white

Version	Price/Unit	Article No.
Set with clip and 2 blades	4,42	8281-0001 N4

## Clean-it | cleaning balls for the laboratory



Dirt deposits in lab glassware? No more time-consuming scrubbing of glassware with old-fashioned and unhygienic bottle brushes. No matter whether Erlenmeyer or round-bottom flask, test tube or beaker – simply fill Clean-it, the small cleaning balls made of stainless steel into the glass, add some detergent and then swirl the balls around in the glass. The shape does not matter; the small balls roll into every corner and make everything sparkling clean in no time at all. It is even easier with warm detergent; the stainless steel balls have a good chemical resistance to commercial detergents. Then just pour the balls back into their practical container, rinse with water and allow them to drip dry. They can be used thousands of times.

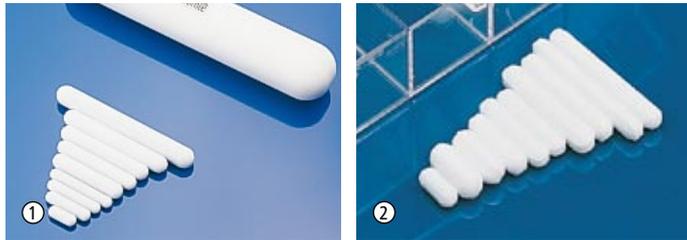
**Tip:** Clean-it is just as suitable for use in households, particularly for wine carafes with red wine stains, narrow-neck vases and bottles.

- ▶ Made of stainless steel, hygienic
- ▶ Ball diameter 3 mm

### Clean-it

Version	Amount	Price/Unit	Price/Unit of (X) units	Article No.
Clean-it 50	920	5,75	(5) 5,25	8282-0001 N4
Clean-it 100	1840	10,75	(5) 9,90	8282-0002 N4

## Magnetic stirring bars | opaque, flexible, Teflon®



Cylindrical shaped, smooth surface, wide variety of uses.

**Magnetic stirring bar set** includes ten of the most commonly used bars; comes complete in a glass-clear box (1 pc. 15 x 6 mm, 2 pcs. 20 x 7 mm, 2 pcs. 25 x 7 mm, 1 pc. 30 x 7 mm, 2 pcs. 40 x 7 mm, 2 pcs. 50 x 7 mm).

High strength and long-life permanent magnets

- ▶ Made of opaque PTFE
- ▶ Max. use temperature +270 °C

① Cylindrical shaped white  				
Length mm	Dia. mm	Price/Unit	Price/Unit of (X) units	Article No.
15	6	1,64	(10) 1,40	8271-1506 N3 <sup>1)</sup>
20	6	1,64	(10) 1,31	8271-2006 N3 <sup>1)</sup>
20	7	2,32	(10) 2,12	8271-2507 N3
25	6	1,87	(10) 1,51	8271-2506 N3 <sup>1)</sup>
25	7	2,32	(10) 2,12	8271-2507 N3
30	6	1,93	(10) 1,55	8271-3006 N3
30	7	2,64	(10) 2,39	8271-3007 N3 <sup>1)</sup>
40	7	3,38	(10) 3,07	8271-4007 N3
40	8	2,27	(10) 1,81	8271-4008 N3 <sup>1)</sup>
50	7	3,95	(10) 3,64	8271-5007 N3
50	8	2,91	(10) 2,27	8271-5008 N3
80	10	6,85	(10) 6,25	8271-8010 N3

<sup>1)</sup> Ideal for use with fish-clip® (see page 176)

② Magnetic stirring bar set	
Price/Unit	Article No.
31,00	8271-1000 N3

## Wash bottles | made of transparent LDPE



The swan-neck jet produces a fine, straight spray with no lateral spatter.

- ▶ Made of LDPE
- ▶ Transparent
- ▶ Immersion tube can be pulled up

 You can find additional wash bottles on page 154.

Wash bottles Standard, made of LDPE  				
Capacity ml	Dia x H mm	Price/Unit	Price/Unit of (X) units	Article No.
100	45x200	1,24	(100) 1,14	0310-0010 N3
250	61x225	1,68	(100) 1,56	0310-0025 N3
500	75x270	2,18	(100) 2,00	0310-0050 N3
1000	98x315	3,59	(50) 3,28	0310-0100 N3

## Draining rack | practical, hygienic



Plastic draining racks (PVC), largely chemically resistant, break-proof, used in the laboratory by the thousand and adapted to the laboratories' requirements.

The stable rods are individually filled into the holes and are clicked in. In combination with rods of three different lengths (60 mm, 100 mm and 150 mm), the draining rack can be adapted to any apparatus which is to be dried (The rods can be repositioned at any time).

The draining channel is removable and has a connection for a draining tube.

Available in three different sizes.

The draining racks are supplied in a rigid box, complete with a dust- and scratch-proof protective film (removable), rods and screws and dowels for wall mounting.

### Draining rack with draining channel complete with rods

Rack dims. L x W cm	Number of rods			Price/Unit	Price/Unit of (X) units	Article No.
	60 mm	100 mm	150 mm			
40x40	5	26	2	140,40	(3) 130,00	9640-2040 N4
50x50	10	39	4	167,45	(3) 150,80	9640-2050 N4
60x60	15	56	6	191,35	(3) 174,70	9640-2060 N4

### Draining rack without draining channel complete with rods

40x40	5	26	2	121,70	(3) 111,30	9640-1040 N4
50x50	10	39	4	144,55	(3) 133,10	9640-1050 N4
60x60	15	56	6	167,45	(3) 150,80	9640-1060 N4

### Rods, exchangeable

Length mm	Rod-dia. mm	Price/ Unit	Price/Unit of (X) units	Article No.
60	6	0,89	(50) 0,81	9640-0421 N4
100	10	0,89	(56) 0,81	9640-0410 N4
150	12	1,20	(50) 1,07	9640-0415 N4 <sup>1)</sup>

 <sup>1)</sup> Rods no. 9640-0415 only usable in combination with 9640-0410

# Dispenser bottle attachment | simple, safe, accurate

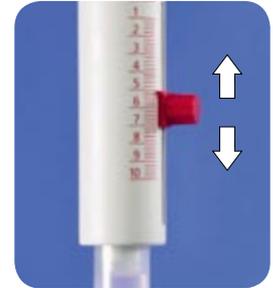


Quick and simple volume setting with the practical setscrew. Volume scale particularly easy to read. Can be freely rotated on the bottle through 360°. No drips when the tip cover is attached. A direct displacement piston with PFA seal reduces liquid crystallization and prevents the piston from seizing up. If the glass cylinder should break, spraying risk is reduced by its plastic encasement. Highest degree of chemical resistance due to use of high-quality materials (PTFE, PFA, FEP, borosilicate glass, platinum-iridium). Can be easily dismantled for cleaning. Whole instrument can be steam sterilized at 121 °C. Available in four different sizes.

**Model Pro Plus** with additional innovative back-dosing valve for venting in closed systems (no reagent loss). Medium-specific readjustment by turning the adjustment device.



Exact addition with low error tolerance



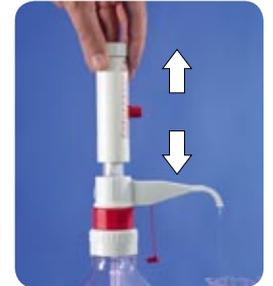
Set the required volume to be added with the adjustment screw



Thread adapters supplied for the commonest bottle necks



Quickly dismantled and cleaned



Piston moves upward: draw in medium. Visual check through transparent cylinder.  
Piston moves downward: eject medium

- ▶ Error tolerance < 0.5 % as per DIN EN ISO
- ▶ Certificate of conformity as per DIN 12600
- ▶ Including three thread adapters
- ▶ Telescopic suction tube (adjustable steplessly)
- ▶ Dispenser supplied with quality certificate

## Dispenser Pro Plus with back-dosing valve



Dosage vol. from - to ml	Graduation ml	Thread GL	Thread adapter GL	Price/unit	Article no.
1,0-10,0	0,2	32	28/S40/45	255,85	7559-0011 N2
2,5-25,0	0,5	45	32/38/S40	330,70	7559-0012 N2
5,0-50,0	1,0	45	32/38/S40	359,85	7559-0013 N2

## Dispenser Pro without back-dosing valve

0,5-5,0	0,1	32	28/S40/45	221,50	7559-0020 N2
1,0-10,0	0,2	32	28/S40/45	221,50	7559-0021 N2
5,0-50,0	1,0	45	32/38/S40	318,25	7559-0023 N2

# Automatic burette | more accurate than Class B



A universal aid in the laboratory, electroplating industry, for field analyses, in water treatment plants, etc. Easy dosing is achieved with the press button, fine titration with the micro-screw and precise discharge jet.

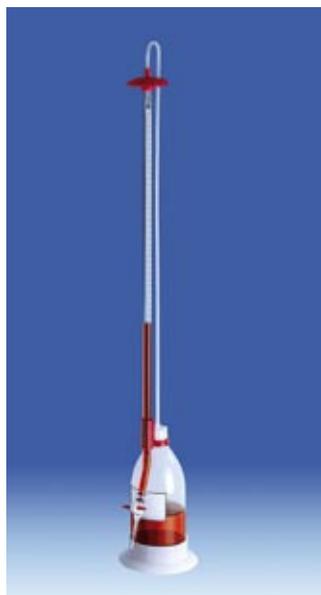
The graduation is more precise than Class B and is calibrated so that no liquid remains in the tip. Blue "Colordur" ring graduations.

- ▶ Breakproof, chemical resistant
- ▶ Left or right hand operation possible
- ▶ Sturdy stand, easy dosing
- ▶ Precise discharge jet, allowing very fine drops

### Burette with Schellbach stripe, made of borosilicate glass 3.3

Burette capac. ml	Graduation ml	Precision ml	Bottle capacity ml	Height cm	Price/Unit	Price/Unit of (X) units	Article No.
5	0.05	± 0,015	500	48	40,35	(10) 36,30	9695-1005 N4
10	0.05	± 0,030	500	57	40,35	(10) 36,30	9695-1010 N4
15	0.10	± 0,045	500	49	40,35	(10) 36,30	9695-1015 N4
25	0.10	± 0,045	1000	61	40,35	(10) 36,30	9695-1025 N4
50	0.10	± 0,045	1000	87	47,10	(10) 42,35	9695-1050 N4

## Burette | breakproof



Schilling titration apparatus, consisting of plastic-coated buret made of borosilicate glass 3.3, class B (tolerances as per DIN ISO 385), with Schellbach stripe and high-contrast black printing. Adjusted for Ex. LDPE storage bottle with HDPE base and PP immersion tube.

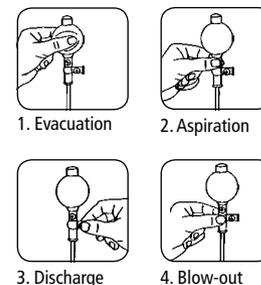
- ▶ Bottle capacity 1000 ml



### Plastic coated Burette with Schellbach stripe

Burette capac. ml	Precision ml	Graduation	Price/unit	Article No.
25	0,05	0,05	72,70	9695-3025 N2
50	0,1	0,1	80,50	9695-3050 N2

## Safety pipetting-ball



Simple pipetting aid. Evacuation is via automatic valve. Pressure on the valve aspirates the liquid, discharges it or blows it out. The removable automatic valve also permits effective internal cleaning.

International patents.

- ▶ For all pipettes up to 100 ml
- ▶ Available in 4 colors

### Safety pipetting-ball

Color	Price/unit	Price/unit of (X) units	Article No.
red	12,00	(10) 11,25	7554-0002 N3
yellow	12,00	(10) 11,25	7554-0004 N3
blue	12,00	(10) 11,25	7554-0005 N3
green	12,00	(10) 11,25	7554-0006 N3

## Pi-Pump | safety pipetting aid

## Graduated and single mark pipettes



### Drawing in the liquid

The handwheel for operating the suction piston is designed for easy operation using your thumb. When you stop the wheel, the piston remains in the desired position without any discharge of liquid.



### Dispensing the liquid

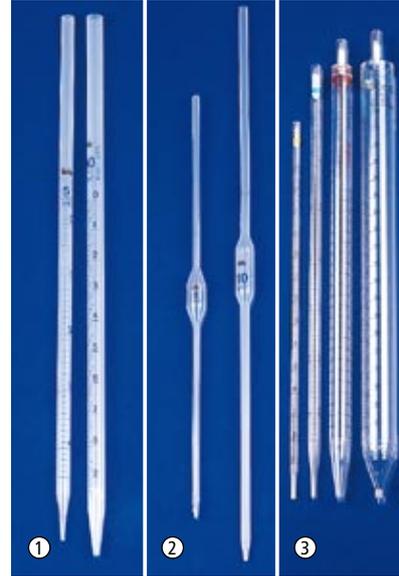
Slight pressure applied to the discharge lever opens the valve and lets the liquid flow out freely. Partial or complete volumes and very small amounts (e.g. from graduation line to graduation line) can be dispensed easily by rotating the handwheel.

Pi-Pump fits naturally in your hand. The handwheel ensures precise suction of fluid into the pipette, the contents can be blown out by pressing back the piston, or allowed to flow out by setting the lateral switch.

- ▶ Easy to operate, precise
- ▶ Three sizes available (color-coded)

### Pi-Pump safety pipetting aid

fits for pipette up to	Colour code	Price/Unit	Price/Unit of (X) units	Article No.
2 ml	blue	10,20	(10) 9,25	7551-0002 N3
10 ml	green	<b>10,20</b>	(5) 9,25	7551-0010 N3
25 ml	red	<b>11,15</b>	(5) 10,10	7551-0025 N3
	Silicone adapter	3,28	(10) 2,96	7551-0005 N3



- ① Graduated pipettes
- ② Single mark pipettes  
Ideal for education and in the industrial laboratory or in field work and also for applications in which glass pipettes may not be used, e.g. in fluorine and silicate chemistry.

- ▶ Translucent PP
- ▶ Breakproof

Blue, permanently stained graduations and lettering.

- ③ Single-use pipettes  
individually sterile-packed

- ▶ Glass-clear polystyrene

**Bulk Prices**

① Graduated pipettes made of PP			
Capacity	Price/Unit	Price/Unit of (X) units	Article No.
10 ml	7,40	(10) 6,75	7550-0010 N3
② Single mark pipettes made of PP			
10 ml	11,00	(10) 10,80	7553-0010 N3
25 ml	12,05	(10) 11,45	7553-0025 N3
50 ml	11,65	(10) 11,35	7553-0050 N3
③ Single-use pipettes made of polystyrene			
25 ml	1,34	(50) 1,12	7556-0025 N3
50 ml	2,54	(25) 2,11	7556-0050 N3
100 ml	10,55	(10) 8,90	7556-0100 N3



For easy and gentle cleaning and safe storage of pipettes. A complete system which should not be absent from any laboratory.

- Made of transparent PE

① Cleaning and storage container for pipettes

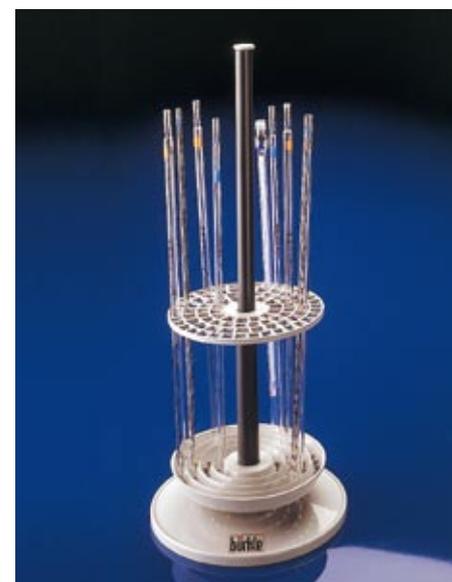
Capacity l	Inner/outer cylinder dia. mm	Foot dia. mm	Height container/ basket mm	Effective height mm	Price/ Unit	Price/Unit of (X) units	Article No.
10,0	155/165	240	550		69,70	(5) 63,40	9650-0651 N3
12,5	155/165	240	660		68,60	(5) 61,30	9650-0652 N3

② Pipette rinser Pipette basket to be ordered separately as accessory

11,5	165	315	740	600	152,90	(5) 138,30	9650-0650 N3
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③ Pipette basket

		145	280		29,80	(5) 27,10	9650-0653 N3
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Rotatable type, base-plate with raised edge which catches dripping liquid. Upper circular plate with 94 openings for different diameter pipettes holds one-mark and graduated pipettes of all sizes.

- PP blue
- Sterilizable up to 121 °C
- Unmounted, space-saving delivery

Pipette stand unmounted

Price/Unit	Price/Unit of (X) units	Article No.
39,50	(5) 36,90	9630-0090 N3

## Laboratory trays/spill throughs | hygienic, easy to clean



Practical all-purpose trays that can be nested into one another when empty. Durable and resist flexing, with strong, rounded rim.

Suitable as a spill trough for environmentally dangerous, aggressive substances, for experiments, an instrument holder, a medicine tray, a photographic development basin, a goods presentation tray or a display tray for foodstuffs.

- ▶ White PP
- ▶ Produced by injection moulding, not by deep drawing
- ▶ Not suitable for temperature controlled cupboards and dishwashers



### Laboratory trays

Capacity l	Tray base inside L x W mm	Tray top outside L x W mm	Overall dims. including rim L x W x H mm	Price/Unit	Price/Unit of (X) units	Article No.
0.5	130 x 180	140 x 190	180 x 230 x 42	4,32	(10) 3,95	4201-1318 N4
1.5	180 x 240	190 x 250	250 x 310 x 65	7,70	(10) 7,05	4201-1824 N4
3.0	240 x 300	250 x 310	310 x 370 x 75	11,15	(10) 10,30	4201-2430 N4
10.0	300 x 400	310 x 410	420 x 520 x 120	18,10	(10) 16,55	4201-3040 N4
21.0	400 x 500	430 x 530	534 x 634 x 140	31,50	(5) 28,90	4201-4050 N4
39.0	500 x 700	520 x 720	648 x 846 x 160	45,95	(5) 41,80	4201-5070 N4

# Photographic trays, shallow form | in a variety of colours and sizes

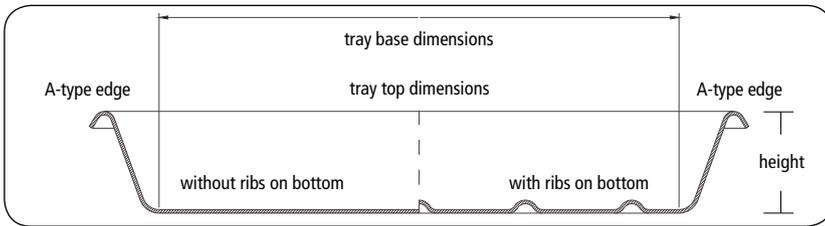


These trays made of PVC come in a variety of shapes and colours. Available in shallow or deep models, with or without ribs on bottom, in 3 attractive, highly glossy colours: white, red and black.

- ▶ PVC
- ▶ Heavy-walled, durable
- ▶ Largely resistant against acids and caustic solutions
- ▶ Temperature resistant up to +70 °C

The model with ribs on the bottom is especially well suited as a film development tray. The raised ribs prevent photographic paper from sticking to the tray bottom. Liquid can be poured out easily from the tray edges.

The model without ribs on the bottom is suited for universal laboratory or storage purposes.

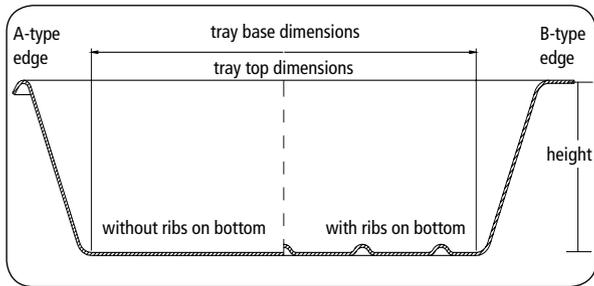


Important: The trays for photographic purpose are made of high quality PVC. We do not supply models made of polystyrene.

## Photographic trays, shallow form

Photo-size LxW cm	Tray base LxW cm	Tray top LxW cm	Height mm	Edge shape	Price/ Unit	Price/Unit of (X) units	with ribs on bottom			without ribs on bottom			
							white Article No.	red Article No.	black Article No.	white Article No.	red Article No.	black Article No.	
10 x 15	11 x 16	15 x 20	30	A	5,15	(5) 4,68				4203-1010	4203-2010	4203-3010	N4
13 x 18	14 x 19	18 x 23	40	A	6,25	(5) 5,70	4202-1013	4202-2013		4203-1013	4203-2013	4203-3013	N4
18 x 24	19 x 26	24 x 32	50	A	9,35	(5) 8,55	4202-1018	4202-2018	4202-3018	4203-1018	4203-2018	4203-3018	N4
24 x 30	26 x 32	32 x 37	50	A	14,65	(5) 13,50	4202-1024	4202-2024	4202-3024	4203-1024	4203-2024	4203-3024	N4
30 x 40	31 x 41	37 x 47	60	A	24,25	(5) 21,20	4202-1030			4203-1030	4203-2030	4203-3030	N4
40 x 50	42 x 51	48 x 58	60	A	46,20	(5) 42,00	4202-1040	4202-2040		4203-1040			N4
50 x 60	51 x 61	59 x 68	70	A	65,50	(5) 59,30	4202-1050	4202-2050		4203-1050	4203-2050	4203-3050	N4

# Photographic trays, deep form | in a variety of colours and sizes



## Photographic trays, deep form



Photo-size LxW cm	Tray base LxW cm	Tray top LxW cm	Height mm	Edge shape	Price/ Unit	Price/Unit of (X) units
18 x 24	19 x 26	26 x 34	85	A	14,35	(5) 13,30
24 x 30	26 x 32	33 x 39	100	A	23,10	(5) 21,10
30 x 40	31 x 41	43 x 53	105	B	31,35	(5) 28,50
40 x 50	42 x 51	52 x 61	110	B	55,10	(5) 49,50
50 x 60	51 x 61	63 x 73	110	B	78,00	(5) 71,75

with ribs on bottom			without ribs on bottom		
white Article No.	red Article No.	black Article No.	white Article No.	red Article No.	black Article No.
			4207-1018	4207-2018	N4
			4207-1024	4207-2024	N4
4206-1030	4206-2030		4207-1030	4207-2030	N4
4206-1040	4206-2040	4206-3040	4207-1040	4207-2040	N4
4206-1050		4206-3050	4207-1050	4207-2050	N4

## Mortar and pestle | sterilizable



In white melamine moulding compound, with particularly hard, abrasion-resistant surface. Mortar with base and spout.

- ▶ Steam sterilizable up to 121 °C
- ▶ Pestles available in two different lengths

Mortar						
Dia. x Height mm	Capacity ml	Price/Unit	Price/Unit of (X) units	Article No.		
125x80	400	10,70	(5) 9,80	8252-0300 N3		
150x95	700	13,30	(5) 11,85	8252-0500 N3		
Pestle						
Length mm	Weight g	Price/Unit	Price/Unit of (X) units	Article No.		
125	55	11,35	(5) 10,50	8253-0125 N3		
145	85	12,15	(5) 11,15	8253-0145 N3		

## Basin | in white PP, sterilizable



Particularly stable, with wide holding edge, available in 7 sizes, substances which solidify in the basin can easily be removed.

- ▶ Made of white PP
- ▶ Sterilizable up to + 121 °C
- ▶ Suitable for foodstuffs

Basins								
Capacity l	Dia. cm	Height mm	Price/Unit	Price/Unit of (X) units	Article No.			
0.9	16	70	1,72	(5) 1,57	4702-0008 N3			
1.7	20	85	2,40	(5) 2,33	4702-0017 N3			
2.9	23.5	105	3,64	(5) 3,28	4702-0028 N3			
4.3	27.5	120	5,30	(5) 4,73	4702-0045 N3			
6.6	32.5	125	7,40	(3) 6,75	4702-0065 N3			
13.4	39	179	11,55	(3) 10,60	4702-0013 N3			

## General purpose container



Stable general-purpose container with cover. For all ranges of medicine or foodstuffs and whenever else tools and devices need to be kept clean.

- ▶ Unbreakable
- ▶ PE transparent
- ▶ Suitable for foodstuff

General purpose container					
	Overall L x B x H	Weight kg	Price/Unit mm	Article No.	
Container	290 x 220 x 110	0.3	<b>12,40</b>	4230-1301 N2	
Cover	300 x 230 x 30	0.25	<b>10,10</b>	4230-1303 N2	

## Instrument trays | steam sterilizable



For multiple uses: in laboratories, doctors' surgeries, hospitals, pharmacies, the foodstuffs industry – wherever there is a need for clean storage of instruments, equipment, goods and precision parts.

- ▶ Made of white melamine resin
- ▶ Tray autoclavable without lid

Accessory glass-clear polystyrene lids are available. These provide a clear view of the contents and dust-free storage.

Instrument trays  				
Capacity Overall ml	L x W x H mm	Price/Unit	Price/Unit of (X) units	Article No.
500	210x110x35	7,50	(10) 6,85	4230-2050 N3
700	190x150x40	5,95	(10) 5,30	4230-2070 N3
1000	290x160x35	8,00	(10) 7,30	4230-2100 N3
1800	290x160x60	10,20	(10) 9,15	4230-2180 N3
2300	350x250x40	15,60	(10) 14,25	4230-2230 N3
5500	350x250x100	19,65	(10) 17,90	4230-2550 N3
Lid for instrument trays  				
for tray	500 ml	5,15	(10) 4,68	4230-2051 N3
for tray	700 ml	6,75	(10) 6,15	4230-2071 N3
for tray	1000 ml and 1800 ml	7,70	(10) 7,05	4230-2101 N3
for trays	2300 ml and 5500 ml	10,10	(10) 9,15	4230-2231 N3

## Instrument servers | durable



For multiple uses – wherever there is a need for clean storage of instruments, equipment, goods and precision parts.

- ▶ Made of white melamine resin

Instrument servers  				
Overall L x W x H mm	Price/Unit	Price/Unit of (X) units	Article No.	
190x150x17	4,42	(10) 4,11	4230-3019 N3	
240x180x17	5,95	(10) 5,40	4230-3024 N3	
268x208x17	7,80	(10) 7,20	4230-3027 N3	
355x240x17	11,45	(10) 10,50	4230-3036 N3	
428x288x17	19,25	(5) 17,60	4230-3043 N3	

Funnels | transparent, available in many different sizes



General purpose funnels, barrel funnels and powder funnels for reliable filling.

① Gen. purpose funnels, PP/PE with suspension eyelet

Funnel dia. mm	Outlet dia. mm	Material	Price/Unit	Price/Unit of (X) units	Article No.
40	5	PP	0,46	(48) 0,43	9602-0040 N3
60	8	PE	0,71	(48) 0,64	9602-0060 N3
80	11	PE	0,80	(48) 0,72	9602-0080 N3
100	10	PP	1,25	(48) 1,13	9602-0100 N3
120	13	PP	1,64	(24) 1,60	9602-0120 N3
140	16	PE	2,12	(24) 1,93	9602-0140 N3
160	18	PE	2,55	(24) 2,30	9602-0160 N3

Funnel stands see page 191.

② Barrel funnels, PP with suspension eyelet

Funnel dia. mm	Outlet dia. mm	Price/Unit	Price/Unit of (X) units	Article No.
200	25	5,70	(14) 5,10	9602-0200 N3 <sup>1)</sup>
250	28	9,80	(12) 8,85	9602-0250 N3 <sup>1)</sup>
350	32	19,85	(5) 18,10	9602-0350 N3
400	40	46,90	(5) 45,40	9602-0400 N3
450	35	66,55	(5) 58,25	9602-0450 N3

<sup>1)</sup> With sieve made of aluminum

③ Powder funnels, PP

Funnel dia. mm	Outlet dia. mm	Price/Unit	Price/Unit of (X) units	Article No.
80	23	1,84	(20) 1,77	9606-0080 N3
100	26	1,90	(20) 1,82	9606-0100 N3
150	30	3,64	(10) 3,28	9606-0150 N3
250	50	9,25	(10) 8,30	9606-0240 N3 <sup>2)</sup>
350	65	26,30	(5) 25,40	9606-0350 N3

<sup>2)</sup> Made of PE with sieve made of phosphor-bronze

Funnel stands see page 191.

## Filtering stand | reliable, practical



With tapered openings to accommodate funnels with diameters from 40 to 160 mm.

- ▶ Made of white PP, unbreakable in normal use
- ▶ Usable for 2 or 4 funnels
- ▶ With variable height adjustment

### Filtering stand



Model for	In-serts	LxWxH cm	Price/Unit	Article No.
2 funnels	2	30x14x48	39,30	9622-0200 N4
4 funnels	2	55x15x50	105,05	9622-0400 N4

Funnels can be found on page 190.

## Funnel | Büchner funnel



Easily cleaned, indestructible. The filter diameters correspond to standard commercial filter paper diameters.

- ▶ Made of white PP

### Büchner funnels, PP



for filter paper dia.	Number holes/ dia. mm	Outlet dia. mm	Price/ Unit	Price/Unit unit	Article No. of (X) units
240	150/3,0	25	63,45	(5) 56,15	9609-0240 N3

## Sedimentation funnel



### Sedimentation funnel, Imhoff cone

- ▶ Made of glass-clear SAN, unbreakable
- ▶ With emptying stopper
- ▶ According to DIN 12672
- ▶ Graduated up to 1000 ml

### Funnel stand

for safe storage and transport of sediment funnels. LxW x H 300 x 220 x 450 mm

- ▶ Made of AISI 304 stainless steel
- ▶ Suitable for 2 funnels
- ▶ With handle, hinged

### Sedimentation funnel Imhoff cone



Price/Unit	Price/Unit of (X) units	Article No.
25,90	(3) 23,50	7118-1000 N3
<b>Funnel stand</b>		
71,75	(3) 66,55	7118-2000 N3

# Graduated beakers with handle | highly transparent or glass-clear, convenient, multifunctional



PP jugs are practically indestructible and highly transparent.

Graduated jugs are often used as advertising materials for chemical products. The smooth surface makes it possible to print a logo or advertising message too. See also page 194.



## Graduated beakers

Capacity ml	Smallest graduation ml	Dia. top mm	Dia. bottom mm	Height mm	① Made of PP with durable embossed blue graduations   			② Made of PP with durable embossed graduations   		
					Price/Unit	Price/Unit of (X) units	Article No.	Price/Unit	Price/Unit of (X) units	Article No.
100	2	50	40	80	1,33	(24) 1,30	7104-0100 N3	1,14	(24) 1,09	7102-0100 N3
250	5	70	50	120	2,44	(24) 2,22	7104-0250 N3	2,18	(24) 2,01	7102-0250 N3
500	10	91	75	133	2,81	(12) 2,52	7104-0500 N3	2,44	(12) 2,22	7102-0500 N3
1000	10	116	95	170	3,74	(6) 3,43	7104-1000 N3	3,54	(6) 3,17	7102-1000 N3
2000	20	150	125	215	7,30	(6) 6,75	7104-2000 N3	7,30	(6) 6,75	7102-2000 N3
3000	50	170	120	242	10,00	(6) 8,95	7104-3000 N3	10,00	(6) 8,95	7102-3000 N3
5000	100	210	160	270	14,45	(6) 13,30	7104-5000 N3	14,45	(6) 13,30	7102-5000 N3

## Graduated beakers, stackable



Conical shape, with printed blue graduations and side handle. Jugs are stackable for space-saving storage.

- ▶ Made of transparent PP
- ▶ Sterilizable
- ▶ Breakproof
- ▶ High chemically resistance

These products are ideal for printing with custom logos or messages – see also page 194.

Stackable graduated beakers, PP, blue graduation						
Capacity ml	Smallest graduation ml	Height mm	Dia. top mm	Price/Unit	Price/Unit of (X) units	Article No.
1000	10	167	125	3,74	(12) 3,43	7110-1000 N3
2000	20	212	148	7,30	(12) 6,65	7110-2000 N3
3000	50	242	170	10,00	(12) 8,95	7110-3000 N3

## Universal graduated beakers



Universal disposable graduated beakers with indestructible graduation. The 3 dimpled spouts enable the safe pouring of liquids.

- ▶ Transparent PP, autoclavable
- ▶ Space-saving stacking in one another



Universal graduated beakers					
Capacity ml	Dia. top/base mm	Graduation ml	Price/Unit	Price/Unit of (X) units	Article No.
50	31/45	5	0,38	(100) 0,33	7109-0052 N3
100	38/55	10	0,38	(100) 0,33	7109-0102 N3
250	48/75	10	0,69	(100) 0,65	7109-0250 N3
400	51/83	20	0,87	(100) 0,81	7109-0400 N3
1000	72/113	50	1,47	(100) 1,33	7109-1000 N3

## Advertise with your good name | products with individual customer-specific printing



### Advertise with your good name

Many articles in this catalog are outstandingly suitable for carrying your advertisements. No matter whether as a promotional gift or as a supplement to your own product: your name is always present.

- ▶ More permanent than labels
- ▶ Long-term advertising effect
- ▶ Economical



### Printable products

- ▶ Pressure atomiser (page 156)
- ▶ Photographic trays (pages 186)
- ▶ Buckets (pages 169 and 214f)
- ▶ Measuring scoops (pages 94 and 103)
- ▶ Bottles
- ▶ Flow indicators (pages 219)

### Printing subjects

Company logos, instructions for use, advertising messages, table of contents, scales – we set no limits to your fantasies or wishes.



### Colors

We can print in all the usual color scales such as RAL, Pantone, HKS or to your color sample.

### Printing area

The area that can be printed depends on the particular product. We will be pleased to advise you.

### Resistance

The printing is resistant to weak acids and alkalis, and to most solvents. It is very resistant to both mechanical damage and light. Your advertising message will not fade even after many years of use.

### From artwork to print

1. You send us your copy or artwork. Digitally or by mail – we can process virtually any data format. We would also be pleased to accept your finished print film.

2. On request we can also supply a layout according to your drawings.
3. After a few days you will receive a proof sheet for your acceptance.
4. In our works your advertising message will be permanently applied in top-quality screen printing.

### Costs

We treat each print job individually. As each print job is different, we always make a separate offer for each inquiry. The total cost is made up of the price of the product, preliminary costs (finalizing the artwork and making the screen) and printing costs.



### Any further questions ?

Have you any further questions or do you require a detailed offer? Please contact your usual salesperson, who will be pleased to provide you with competent advice.

### Example for price

Article No.	7102-0500
Article	Grad. beaker 500 ml
Print	Single-colored from fair drawing
Number	2000 pcs.
Price/Unit	... €

# Laboratory beakers/Griffin beakers | breakproof, temperature-resistant, multifunctional

Laboratory beakers according to DIN 12331 and ISO 7056 (glass), are available in different plastics and are consequently suitable for a variety of tasks. The construction material is printed on the beakers in order to aid their identification. Custom printing is available for bulk orders of these products – see page 194.

**Bulk Prices**

**Sell this product with your good name!**

This measuring beaker can be supplied with your own individual advertising message. See page 194.



Griffin beakers made of PP

- ▶ Translucent
- ▶ Blue-printed graduations
- ▶ Breakproof
- ▶ Sterilizable



Griffin beakers made of PMP

- ▶ Transparent
- ▶ Red-printed graduations
- ▶ Breakproof
- ▶ Sterilizable



Griffin beakers made of PFA

- ▶ Translucent
- ▶ Embossed graduations
- ▶ Meet ISO 7056
- ▶ Resistant to high temperatures and chemical attack.

Griffin beakers				DIN	① PP, blue grad.			② PMP, red grad.			PFA, embossed grad.			
Capacity ml	Graduation ml	Dia. mm	Height mm		Price/Unit	Price/Unit of (X) units	Article No.	Price/Unit	Price/Unit of (X) units	Article No.	Capac. ml	Grad. ml	Price/Unit	Article No.
10	2/1	28	36		–			–			–			
25	1/1	34	49		0,88	(12) 0,82	7122-0025 N3	–			25	5,0	15,40	7210-0025 N3
50	5/1	43	60		0,97	(12) 0,89	7122-0050 N3	–			50	10,0	19,75	7210-0050 N3
100	5/1	51	72		1,15	(12) 1,05	7122-0100 N3	1,97	(12) 1,90	7130-0100 N3	–			
150	5/1	58	82		1,57	(12) 1,44	7122-0150 N3	–			–			
250	5/1	70	95		1,57	(6) 1,44	7122-0250 N3	–			–			
400	10/1	80	110		2,26	(6) 2,18	7122-0400 N3	–			–			
500	50	88	122		2,41	(6) 2,17	7122-0500 N3	–			–			
600	25/1	93	125		2,48	(6) 2,26	7122-0600 N3	–			–			
1000	50/1	108	148		3,74	(6) 3,43	7122-1000 N3	6,85	(6) 6,25	7130-1000 N3	–			
2000	100/1	140	188		6,95	(6) 6,35	7122-2000 N3	–			–			
3000	200	174	214		13,60	(4) 12,40	7122-3000 N3	–			–			
5000	500	185	248		17,70	(4) 16,00	7122-5000 N3	–			–			

# Graduated cylinders – tall form | breakproof, stable, glass-clear or transparent



Graduated cylinders, tall-form, to DIN 12681 (Glass)/ISO 6706, hexagonal base.

For use in industrial laboratories, during field work and wherever volumetric measurements have to be made during production.



Graduated cylinders, PP

- ▶ Class B
- ▶ Made of translucent PP
- ▶ Embossed graduations with rings at main points
- ▶ Sterilizable
- ▶ Breakproof at room temperature



Graduated cylinders, PP

- ▶ Class B
- ▶ Made of translucent PP
- ▶ Embossed blue graduations with rings at main points
- ▶ Sterilizable
- ▶ Breakproof at room temperature

Graduated cylinders					PP, with embossed graduations			PP, embossed blue graduations		
Capacity	Graduation	Outer-cylinder-dia.	Hexagonal foot-dia.	Height	Price/Unit	Price/Unit of (X) units	Article No.	Price/Unit	Price/Unit of (X) units	Article No.
ml	ml	ml	mm	mm						
50	1	28	55	199	2,31	(12) 2,10	7502-0050 N3	4,17	(12) 3,85	7503-0050 N3
100	1	34	65	260	3,02	(12) 2,65	7502-0100 N3	5,40	(12) 4,89	7503-0100 N3
250	2	47	75	315	4,94	(6) 4,52	7502-0250 N3	8,40	(6) 7,70	7503-0250 N3
500	5	61	95	350	6,75	(6) 6,15	7502-0500 N3	11,15	(6) 10,20	7503-0500 N3
1000	10	76	125	415	9,25	(6) 8,30	7502-1000 N3	15,10	(6) 13,75	7503-1000 N3
2000	20	97	160	482	20,80	(3) 18,95	7502-2000 N3	27,25	(3) 24,75	7503-2000 N3

## Graduated cylinders, tall form | breakproof, stable, glass-clear or transparent

## Graduated cylinder



### Graduated cylinders, SAN

- ▶ Class B
- ▶ Made of transparent SAN
- ▶ Embossed graduations with rings at main points

### Graduated cylinders, PMP

- ▶ Class A
- ▶ Made of transparent PMP
- ▶ Embossed graduations with rings at main points
- ▶ Sterilizable
- ▶ Breakproof at room temperature

### PMP, certified conformity acc. to DIN 12681.

- ▶ Class A
- ▶ Conformity certified (H)
- ▶ Made of transparent PMP
- ▶ Embossed graduations with rings at main points
- ▶ With Test Certificate indicating lot number and year of production, also on the cylinder

#### Made of SAN



Price/Unit	Price/Unit of (X) units	Article No.
6,05	(12) 5,50	7506-0100 N3
12,80	(6) 11,55	7506-0500 N3
15,50	(6) 14,15	7506-1000 N3

#### Made of PMP



Price/Unit	Price/Unit of (X) units	Article No.
5,70	(12) 5,20	7510-0100 N3
13,40	(6) 12,05	7510-0500 N3
20,50	(6) 18,70	7510-1000 N3

#### Graduated Cylinders, PMP



Capacity ml	Graduation ml	Price/Unit	Price/Unit of (X) units	Article No.
100	1	9,80	(12) 8,85	7512-0100 N3
1000	10	32,95	(6) 30,05	7512-1000 N3
2000	20	55,10	(6) 49,30	7512-2000 N3

## Standard bungs | soft red PVC



**\* Bulk Prices**

Laboratory standard bungs with good chemical resistance against acids and caustic solutions.

- ▶ Made of soft red PVC (shore 65)

### Standard bungs PVC

Dia. bottom mm	Dia. top mm	Height mm	Price/ Unit	Article No.
6	10	20	0,37	9763-0610 N3
9	13	20	0,43	9763-0913 N3
11	15	20	0,48	9763-1115 N3
14	18	20	1,68	9763-1418 N3
16	21	25	2,01	9763-1621 N3
19	24	25	2,07	9763-1924 N3
22	27	25	2,32	9763-2227 N3
25	31	30	2,44	9763-2531 N3
28	34	30	2,51	9763-2834 N3
31	38	35	2,65	9763-3138 N3
34	41	35	2,42	9763-3441 N3
38	45	35	2,65	9763-3845 N3
42	49	35	3,27	9763-4249 N3
46	54	40	3,95	9763-4654 N3

## Standard bungs | silicone rubber



Made of silicone rubber, translucent, amber-coloured, physiologically and biologically inert.

- ▶ Temperature resistant in the range of -70 °C to + 250 °C
- ▶ Sterilizable
- ▶ Non-toxic

### Standard bungs PVC

Dia. bottom mm	Dia. top mm	Height mm	Price/ Unit	Article No.
5	9	20	0,22	9764-0610 N3
8	12	20	0,28	9764-0913 N3
10,5	14,5	20	0,33	9764-1115 N3
14	18	20	0,49	9764-1418 N3
17	22	25	0,78	9764-1621 N3
18	24	30	1,03	9764-1924 N3
21	27	30	1,34	9764-2227 N3
26	32	30	2,16	9764-2531 N3
29	35	30	2,81	9764-2834 N3

## Bungs



Bungs for standard ground glass stopper cones, made of PE, hollow with sealing rings and octagonal head.

- ▶ Made of PE

**\* Bulk Prices**

### Standard bungs PVC

NS	Dia. bottom mm	Dia. top mm	Price/ Unit	Article No.
7/16	5,9	7,5	0,25	9760-0716 N3
10/19	8,2	10,0	0,36	9760-1019 N3
12/21	10,4	12,5	0,43	9760-1221 N3
14/23	12,1	14,5	0,46	9760-1423 N3
19/26	16,4	19,0	0,54	9760-1926 N3
24/29	21,1	24,0	0,62	9760-2429 N3
29/32	25,8	29,0	0,80	9760-2932 N3
34/35	31,0	34,5	1,51	9760-3435 N3
45/40	41,0	45,0	1,83	9760-4045 N3

## Erlenmeyer flasks | breakproof



Wide-necked, with tightly sealing screw cap. Breakproof, sterilizable.

- ▶ Made of highly transparent PP
- ▶ Can also be plugged with NS-cone (standard ground glass stopper)

### Erlenmeyer flasks, PP

Capa- city ml	Seal thread	Height x dia. mm	Price/ Unit	Price/Unit of (X) units	Article No.
100	40	110x65	3,90	(12) 3,59	7166-0100 N3
250	52	150x85	5,60	(6) 5,10	7166-0250 N3
500	52	180x105	6,65	(6) 5,95	7166-0500 N3

## Volumetric flasks | PP



With screw-cap, made of PP To DIN 12664 (glass) / ISO 1042, translucent, ring-marked, class B.

- ▶ Breakproof
- ▶ Sterilizable
- ▶ Can also be plugged with NS-cone (standard ground glass stopper)

### Volumetric flasks PP

Capa- city ml	Seal thread	Height x dia. mm	Price/ Unit	Price/Unit of (X) units	Article No.
50	18	150x48	7,80	(6) 7,20	7162-0050 N3
100	18	180x60	8,40	(6) 7,70	7162-0100 N3
250	25	235x80	10,50	(5) 9,65	7162-0250 N3
1000	25	310x125	12,50	(3) 11,35	7162-1000 N3

## Volumetric flasks



Class A, made of PMP To EN ISO 1042 (glass), translucent, individually ring-marked, class A, with standard ground glass stoppers made of PP, with imprinted Lot No. and Certificate.

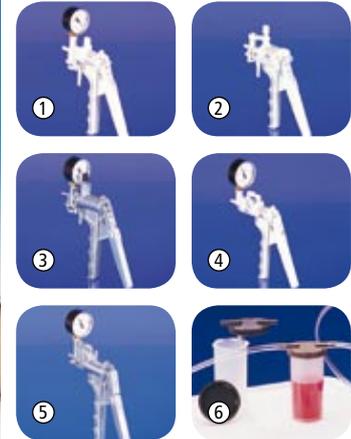
- ▶ Breakproof
- ▶ Sterilizable
- ▶ With stopper

### Volumetric flasks Class A

Cap. ml	Standard stopper	Height x dia. mm	Price/ Unit	Price/Unit of (X) units	Article No.
50	10/19	150x48	10,60	(6) 9,80	7165-0050 N3
100	14/23	180x60	11,85	(6) 11,70	7165-0100 N3
250	19/26	235x80	15,10	(5) 14,65	7165-0250 N3
500	19/26	270x100	15,60	(4) 15,25	7165-0500 N3
1000	24/29	310x125	18,10	(3) 17,60	7165-1000 N3

## Desiccators | unbreakable, lightweight, vacuum-tested

## VacuMan air pump



Plastic desiccators are unbreakable and lightweight – two essential advantages! With stopcock, for vacuums up to 980 mbar. Base and desiccator plate are made out of polypropylene, the lid is crystal-clear polycarbonate with both a non-return valve and a venting valve. O-ring seal made of polychlorobutadiene-rubber. 60 °C max. continuous temperature.

- ▶ Perforated plate available as an accessory
- ▶ Includes O-ring
- ▶ Tubing connection fits hoses with internal dia. 8.5 mm

Manual pump that can generate a vacuum or pressure independent of a power supply. Suction pressure to 815 mbar. Maintenance-free, self-lubricating, substantial corrosion-resistance. Connection for hoses with 6 mm internal diameter. Available in PVC or aluminum for heavy duty.

- ▶ With or without pressure gauge
- ▶ Sampling set with suction hose and sample container
- ▶ Adapter set for tubing from 5 to 14 mm

### ① Desiccators

Inner Dia. mm	Outer Dia. mm	Height mm	Fits for	Price/Unit	Price/Unit of (X) units	Article No.
150	175	190		57,20	(5) 44,50	9791-0150 N3
200	235	230		94,65	(5) 85,30	9791-0200 N3
250	285	300		113,35	(5) 104,00	9791-0250 N3

### ② Desiccator plates

141			9791-0150	6,35	(5) 5,80	9791-0151 N3
190			9791-0200	8,75	(5) 7,80	9791-0201 N3
239			9791-0250	9,65	(5) 8,85	9791-0251 N3

### ③ O-Rings

			9791-0150	2,91	(5) 2,58	9791-0152 N3
			9791-0200	3,95	(5) 3,69	9791-0202 N3
			9791-0250	5,80	(5) 5,20	9791-0252 N3

### VacuMan air pump

	Pressure gauge	Material	Stroke ml	Vacuum mbar	Pressure max bar	Price/unit	Article No.
①	yes	PVC	18	815	-	79,05	5620-1180 N3
	yes	PVC	36	815	-	93,60	5620-1360 N3
②	no	PVC	36	815	-	78,00	5620-0360 N3
③	yes	Alu	18	815	-	139,35	5620-1181 N3

### VacuMan – pressure and vacuum pump

④	yes	PVC	18	815	+ 1,5	130,00	5620-2180 N3
⑤	yes	Alu	18	815	+ 1,5	220,50	5620-2181 N3
		Adapter set				<b>8,70</b>	5620-0010 N3
⑥		Drawing off set, hose and collection container				20,60	5620-0020 N3

## Water-jet pump | resistant against chemicals

## Test-tube racks | sterilizable, stackable



For withdrawing liquids and gases, and for creating vacuums; simple operation and easy cleaning. The vacuum connection can be unscrewed and a variety of water inlet connections (R 3/4" sleeve nut, R 1/2" reducing adapter and 10 – 12 mm o.d. tubing nozzle) simplify connection to most water sources.

**Suction tube connection:** 6 – 9 mm external diameter nozzle, GI 14 screw cap  
**Materials:** PP, PTFE, Viton®  
**Water consumption<sup>1)</sup>:** approx. 190 l/hour with 3.5 bar (absolute). 6l of water are needed to evacuate a 1 l pressure vessel from normal pressure to final pressure  
**Suction capacity<sup>1)</sup>:** 400 l/hour  
**Evacuation time:** for a 1 l pressure vessel, from normal pressure to 100 mbar; 60 sec. (± 10 sec.)  
**Final pressure<sup>1)</sup>:** < 16 mbar  
**Continuous use temperature:** up to a max. of 80 °C

<sup>1)</sup> at 3.5 bar water pressure and 12 °C water temperature

Universal Test-tube racks made of PP with retention system. Allows all test tubes to be emptied simultaneously. For test tubes in most standard diameters.

- ▶ Coloured PP, breakproof
- ▶ Steam sterilizable up to + 121 °C
- ▶ Available in 3 colours
- ▶ Dimension: 246 x 104 x 64 mm

Alphanumerically marked positions for specific identification of samples.

### Water-jet pump 3/4" connector

	Price/Unit	Price/Unit of (X) units	Article No.
including 1/2" adapter	<b>37,95</b>	(10) 36,90	9668-0200 N3
3/8" adapter	4,99	(10) 4,42	9668-0010 N3
M 22 x 1 adapter (perlator thread)	4,94	(10) 4,40	9668-0011 N3

### Test-tube racks

with retention system			white	blue	red	
For tube dia. up to ... mm	Quantity tubes	Price/Unit	Article No.	Article No.	Article No.	
16	60	9,05	9635-0021	9635-0025	9635-0022	N3
20	40	9,05	9635-0031	9635-0035	9635-0032	N3
25	24	10,90	9635-0041 <sup>1)</sup>	9635-0045 <sup>1)</sup>	9635-0042 <sup>1)</sup>	N3

<sup>1)</sup> without retention system

## HotGrip | heat protection



Made of silicone rubber which is highly resistant to both heat and cold. It protects fingers, hands and work surfaces from burns and freezing when working with apparatus which has extreme temperatures. HotGrip is resistant to temperatures from -60 °C to +200 °C (short-term up to +250 °C). Deep frozen, hot or even boiling substances and apparatus can be safely handled and positioned. Silicone rubber is extremely elastic and slip-proof, so that even smooth surfaced apparatus such as hot glass flasks can be securely gripped.

HotGrip is available in three sizes

- ▶ **HotGrip 1** as a glove for the whole hand
- ▶ **HotGrip 2** for one finger only
- ▶ **HotGrip 3** for thumb and 2 to 3 fingers

HotGrip			
Type	Price/Unit	Price/Unit of (X) units	Article No.
HotGrip 1 – red	18,80	(10) 17,70	9768-0001 N3
HotGrip 2 – white	22,05	(10) 20,90	9768-0002 N3
HotGrip 3 – white	29,10	(10) 27,55	9768-0003 N3

## Mercury collector



### Mercury collector

Bürkle's mercury collector enables the easy collection of spilt mercury, which can then be used again.

The mercury collector is composed of a PE tub. Within the screw cap lid there is a special plastic foam insert. On pressing this foam gently on the spilt mercury, the foam's pores are opened and the mercury globules are absorbed. When raised, the foam's pores are sealed again, thus keeping hold of the mercury. The cap is then screwed on the tub, the globules are released again and fall through the perforated separation into the tub.

Mercury collector, complete		
Price/Unit	Price/Unit of (X) units	Article No.
21,20	(10) 19,15	9789-0001 N4
Spare plastic foam insert		
3,48	(10) 3,12	9789-0002 N4

## Cold protection gloves



Cold protection gloves for work in cold treatment plants, with coolants, as well as for handling liquefied or dry ice gases like nitrogen. Don't wear unsuitable and thus dangerous "protective clothing" such as leather gloves! Our cold protection gloves offer protection against the danger when working with ultra low temperatures down to -160 °C. Two versions: water-resistant and 100 % waterproof.

Cold protection gloves water-resistant		
Size	Price/Pair	Article No.
M	201,75	9805-0002 N2
L	201,75	9805-0003 N2
Cold protection gloves waterproof		
M	249,60	9805-0005 N2
L	249,60	9805-0006 N2

## SnowPack® dry ice machine | -79 °C cryogenic cooling on-tap



SnowPack® enables you to obtain a -79 °C dry ice tablet weighing 50 or 250 g within a few moments, without complicated technology and without electricity! You can therefore obtain low-cost cooling to very low temperatures at any time you like. SnowPack® is often used in hospitals, universities, schools, institutes, laboratories, in the chemical industry and in materials testing facilities.

Examples of use: lowering the temperature in cooling baths or cold traps, pre-cooling tissue samples, ensuring safe transport or embedding biological substances, freezing blood and tissue samples, studies in chemistry, physics and materials technology, etc.

Dry ice is odourless and easy to handle. The SnowPack® dry ice machine can be installed on any commercial CO<sub>2</sub>-bottle with a stand-pipe valve (thread W 21,80 x 1/14" acc. to DIN 477 Nr. 6), these are often already present in many production facilities and laboratories. If this is not the case, a bottle can be rented for a small price from a local specialist gas distributor.

- ▶ Ideal coolant for transporting samples
- ▶ Available in 2 different sizes

### Using SnowPack® is easy:

1. Simply screw SnowPack® onto a CO<sub>2</sub> cylinder equipped with an ascending tube valve
2. Open the valve: CO<sub>2</sub> gas flows into SnowPack and crystallizes to dry ice
3. Unfasten the clamping belt
4. Remove the dry ice tablet

### SnowPack® Dry ice machine

Version	Tablet dia. x H	Weight g	Gas escape/unit approx. min	Tablets per 22 kg bottle appr.	Price/Unit	Article No.
SnowPack® 50	50 x 30	50	0.5 min	90 <sup>1)</sup>	167,45	9805-0030 N4
SnowPack® 250	80 x 60	250	2.5 min	16 <sup>1)</sup>	205,90	9805-0200 N4

<sup>1)</sup>Performance depends on ambient temperature and pressure

# Safety equipment | for emergency use when handling dangerous substances



**According to DIN 12899.** Perfect for laboratories, filling stations and all work places, where aggressive substances are used. EyesFresh delivers streams of cold water immediately upon opening the tap. For normal use of the tap, just press the button. Afterwards, EyesFresh returns automatically to eyewash-function. Eyes Fresh can be fitted onto all cold water taps with 1/2" thread (outer thread M22x1) without extra installation work.

② **Eye rinsing bottle**  
transparent PE, unfilled  
600 ml capacity, with valve,  
dust protection cap, drain-  
tube and Instructions  
printed on the bottle.

③ **Wall fixture**  
Green surface coating

① "Eyes Fresh" Mini eyewash station	Price/Unit	Price/Unit of (X) units	Article No.
	115,45	(5) 106,10	2515-0100 N3
② Eye rinsing bottle			
	25,40	(10) 23,00	2507-2000 N3
③  Wall fixture			
	13,20	(10) 12,60	2507-2001 N3



### Rubiflex Protective Gloves

Long or short models. Top quality thanks to reinforced model. Safe working with fats, mineral oils and many acids and caustic solutions.

- ▶ Very flexible, soft grip
- ▶ High resistance to abrasion and cuts
- ▶ Comfortable cotton/interlock inside
- ▶ According to EN 374 standard

#### Rubiflex Protective Gloves



Description	Length cm	Price/pair	Price of (X) pairs	Article No.
① long wrist	60	38,60	(10) 35,05	2507-0003 N3
② Standard	37	20,20	(10) 18,40	2507-0002 N3



Against the widespread trend on the training market, Bürkle is increasing the number of apprentices it trains.

Among its 42 employees, Bürkle GmbH currently has five apprentices in various sectors of the company; these include two industrial clerks, one media designer, one specialist for warehouse logistics and one process mechanic for plastic and rubber techniques.

The company has grown continually in recent years and regards training its own specialists as being a solution to the continually increasing lack of specialists. For many years now Bürkle has been successful in training apprentices in the commercial sector and in warehouse logistics and then offering them attractive positions within the company.

Bürkle is aware of its social responsibilities. One way of meeting such responsibilities is by making it possible for young people to receive a well-based training.

# Safety containers made of stainless steel | safe storage and transport of flammable liquids



Spare parts/  
accessories: Tap  
w/ 3/4" or 1 1/2"  
connection  
thread. Screw  
cap w/ 1 1/4" or  
1 1/2" or 2" TPI  
(no illustration).



Anti-static set  
(see page 23)

## Safety storage container

- ▶ Stainless steel with a thickness of 0.8 mm (10 l), 1.2 mm (25 l) and 1.5 mm (50 l).
- ▶ 25 l container can be stacked

**Safety storage container** with screw cap without pressure-relief valve,  
with separate, lockable venting. GGVS/GGVE 

Capacity l	H x Dia. mm	Upper Thread	Outlet Thread	Purpose	UN- approved	Price/ Unit	Article No.
25	530x300	1 1/2"	–	Transport/Storage	yes	398,30	2601-5125 N2

**Safety storage container** with screw cap and pressure-relief valve

50	600x380	2" (TPI)	–	Storage	no	473,20	2601-5050 N2
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**Safety storage container** with self-closing tap

10	350x260	1 1/2"	3/4"	Storage	no	566,80	2601-4010 N2
25	530x300	1 1/2"	3/4"	Storage	no	671,85	2601-4025 N2

**Safety storage container** with self-closing tap and volume level indicator made of PFA

10	350x260	1 1/2"	3/4"	Storage	no	781,05	2601-6010 N2
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## Storing and transporting flammable liquids: important factors to consider.

The regulations for handling flammable liquids are contained in the technical regulations for flammable liquids.

According to these regulations, all flammable liquids must be stored and transported in conductive containers. This prevents electrostatic charges or conducts them away effectively.

Only those containers are to be used that are manufactured according to these specifications. The containers sold by Bürkle comply with these regulations.

It must also be possible to hermetically seal containers for transport, i.e., no pressure-relief valve may be used. On the other hand, it makes sense to use containers with a pressure-relief valve for storage to enable pressure adjustment when temperatures fluctuate.

The containers shown here are available optionally as transport or storage containers. They only differ in their closure type. Storage containers have a pressure-relief valve in the closure or separate venting. Transport containers with UN approval have leakproof closures.

All containers offered here are suitable for use with the Bürkle anti-static set, which must be used when liquids are transferred to other containers.

# Safety containers stainless steel | safe storage and transport of flammable liquids



## Safety cans

- ▶ Made out of 0.6 mm thick stainless steel 316Ti (1.4571)
- ▶ With a powder-surfaced aluminum handle
- ▶ Closure thread 1¼"



## Safety jerrycans

- ▶ Wall thickness 0.8 mm
- ▶ 5- and 10-litres jerrycans made of AISI 316Ti stainless steel
- ▶ 20-litres jerrycan made of AISI 304 stainless steel
- ▶ Handle made of solid stainless steel
- ▶ Closure thread 1½"



## Safety Funnel

- enables easy filling of containers and prevents overfilling.
- ▶ Made of AISI 304 stainless steel
  - ▶ Flame block
  - ▶ Connection 2"-NPT fine thread
  - ▶ Discharge pipe diameter 3.5 cm

All containers on this page are protected against explosions and equipped with flame breakthrough protection.

### Safety cans with fine dosage spout with pressure-relief valve

Cap. l	Height/dia. mm	Purpose	UN-approved	Price/Unit	Article No.
5	400/165	Storage	no	271,45	2601-1005 N2

### Safety jerrycans with screw cap without pressure-relief valve – GGVs/GGVE/RID/IMDG/Cody/I CAO-TI

Capacity l	LxWxH mm	Purpose	UN-approved	Price/Unit	Article No.
10	280x130x380	Transport	yes	319,30	2601-7010 N2

### Safety jerrycans with screw cap incl. pressure-relief valve

5	200x130x310	Storage	no	273,50	2601-3005 N2
10	280x130x380	Storage	no	326,55	2601-3010 N2
20	345x175x470	Storage	no	399,35	2601-3020 N2

### Safety jerrycans with fine dosage spout incl. pressure-relief valve

10	280x130x380	Storage	no	371,30	2601-2010 N2
20	345x175x470	Storage	no	434,70	2601-2020 N2 *

\* With separate venting and fine dosing spout without pressure-relief valve

### Safety Funnel

Price/Unit	Article No.
210,10	2601-9900 N2

## UN wide-mouth container, HDPE



Made of HDPE, can be used for waste disposal or storage. For liquids, powders or granulates. Leakproof closure with seal tagging points.

- ▶ UN-approval X, Cat. I, II, III

### UN Wide-mouth container, HDPE

Capacity l	Price/Unit	Price/Unit of (X) units	Article No.
3.5	11,85	(10) 10,70	1105-0003 N3
6	15,20	(24) 13,75	1105-0006 N3
10	21,20	(8) 20,80	1105-0010 N3
26	35,35	(20) 31,95	1105-0026 N3
33	40,05	(36) 36,60	1105-0033 N3

## UN jerrycan | stackable, HDPE



With UN transport approval and tamper-evident closure. A drain cock is available as accessory. See also page 169.

- ▶ UN-approval

### UN Jerrycan, HDPE

Capacity l	Price/Unit	Price/Unit of (X) units	Article No.
5	4,40	(32) 3,95	1427-0005 N3
10	5,50	(20) 4,94	1427-0010 N3
20	14,65	(6) 13,40	1427-0020 N3
30	21,10	(6) 19,15	1427-0030 N3

#### Accessories for UN Jerrycans

Screw closure with spigot for 1427-0005 and -0010	6,25	(10) 6,05	1427-9102 N3
Screw closure with spigot for 1427-0020 and -0030	6,95	(10) 6,35	1427-9100 N3
Tamper-evident cap for 1427-0005 and -0010	0,47	(10) 0,44	1427-9105 N3
Tamper-evident cap for 1427-0030 and -0020	0,99	(10) 0,90	1427-9106 N3

## UN bottle



This bottle reduces packaging costs! The bottle is UN tested and approved. Bottle made of HDPE, spill-proof, complete with PR tamper-evident closure with PTFE seal. Available in three sizes from 0.5 l to 2.5 l contents. The bottles are excellent for packaging purposes, sampling, sending samples, storage and shipping via the post office.

- ▶ Absolutely leakproof
- ▶ With UN-approval
- ▶ Transparent; also available in black on request

 Bell-shaped caps with and without degassing on request

### UN-Bottle with screw cap

Nom. capac. ml	Overall dimensions mm	Price/unit	Price/unit of (X) units	Article No.
500	770/177	2,93	(120) 2,59	0304-0500 N3
1000	96x96x212	3,69	(64) 3,56	0304-1000 N3
2500	127x127x282	6,75	(26) 6,25	0304-2500 N3

## Settling bottle | round



Stable carrying handle and captive screw cap.

- ▶ With printed graduation.

For more technical details see page 173.

### Settling bottles, round

Capacity l	Price/Unit	Price/Unit of (X) units	Article No.
5	28,90	(11) 26,30	0402-0005 N3
10	36,10	(6) 32,55	0402-0010 N3
25	66,55	(4) 61,35	0402-0025 N3
60	115,45	(5) 107,10	0402-0060 N3

 Spigot StopCock for all bottles (see page 40)

5-60	19,35	(10) 17,35	0525-1000 N4
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## Settling jerrycan | wide-necked



Extra wide-necked, with extremely wide 88 mm diameter filling opening, integrated carrying handle, captive screw cap which cannot be mislaid.

For more technical details and jerrycans without threaded connector see page 172.

### Settling jerrycan, extra wide-necked with threaded connector

Capacity l	Price/Unit	Price/Unit of (X) units	Article No.
5	26,75	(6) 24,00	0431-1005 N3
10	38,40	(5) 35,05	0431-1010 N3
20	57,20	(3) 50,25	0431-1020 N3
31	68,65	(2) 61,35	0431-1030 N3

 Litres scale for Settling jerrycan

5	4,42	(12) 4,07	0431-9051 N3
10	4,42	(10) 4,07	0431-9011 N3
22	4,42	(6) 4,07	0431-9021 N3
31	4,42	(4) 4,07	0431-9031 N3

 Spigot StopCock for all jerrycans (see page 40)

5-31	19,35	(10) 17,35	0525-1000 N4
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## Compact jerrycan



Compact jerrycan, settling jerrycan, 5 litres capacity, particularly narrow, space-saving design. Will find room in the smallest lab!

For more technical details see page 171.

### Compact/settling jerrycan

Capacity l	Price/Unit	Price/Unit of (X) units	Article No.
5	25,90	(10) 23,20	0435-2050 N4

 Spigot StopCock for Compact jerrycan (see p. 40)

	19,35	(10) 17,35	0525-1000 N4
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 Safety supports for Compact jerrycans to hold jerrycans as indicated

for number of jerrycans	Price/Unit	Price/Unit of (X) units	Article No.
2	16,85	(10) 15,30	0435-9102 N4
3	17,90	(10) 15,90	0435-9103 N4

## Industrial bucket



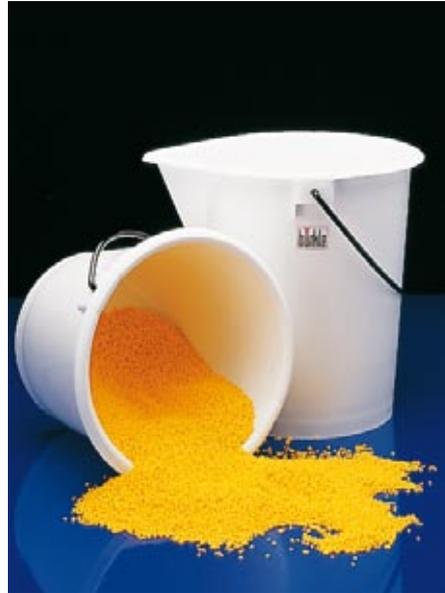
For transporting, decanting and mixing.  
Wide spout gives rapid but safe emptying.  
With metal handle.

- ▶ Made of transparent LDPE
- ▶ With litre scale, graduation 1000 ml
- ▶ With spout
- ▶ Heavy-walled model

**\* Bulk Prices**

Industrial bucket  				
Capacity l	Dia. x Height cm	Price/unit	Price/Unit of (X) units	Article No.
7	25x25	6,85	(6) 6,25	2308-0007 N3
11	29x28	10,30	(6) 9,25	2308-0011 N3
15	34x32	14,05	(6) 12,60	2308-0015 N3
19	36x34	16,00	(6) 14,45	2308-0019 N3

## Laboratory bucket



For transporting, decanting and mixing.  
Wide spout gives rapid but safe emptying.  
With metal handle.

- ▶ Made of white PE
- ▶ With litre scale, graduation 1000 ml
- ▶ With spout

Laboratory bucket  				
Capacity l	Dia. x Height cm	Price/Unit	Price/Unit of (X) units	Article No.
10	29x28	21,85	(10) 21,25	2306-0010 N3
15	32x34	32,30	(10) 29,30	2306-0015 N3

## Bucket made of PP



For transporting, decanting and mixing.  
Wide spout gives rapid but safe emptying.  
With strong handle made of PP.

- ▶ Made of transparent PP
- ▶ With litre scale, graduation 1000 ml
- ▶ With spout
- ▶ Sterilizable

Bucket made of PP   				
Capacity l	Dia. x Height cm	Price/Unit	Price/Unit of (X) units	Article No.
12	31x30	22,45	(10) 20,30	2306-1012 N3
15	30x34	24,65	(10) 22,45	2306-1015 N3

## Four-sided bucket | square shaped



For transporting of bulky goods. Space-saving, stable, easy to carry. An accessory lid is also available

- ▶ Made of transparent PE
- ▶ With strong handle made of PE
- ▶ With capacity graduation

Four-sided bucket square shaped							
Capacity l	Dimensions LxWxH cm	Price/Unit	Price/Unit of (X) units	Article No.			
14	28x28x29	19,95	(10) 18,20	2350-0140 N3			
Lid		7,90	(10) 7,20	2350-0141 N3			

## Packaging bucket | round shaped



For transporting, packaging, and storing a variety of materials. Suitable for the food or building material industries, non-aggressive chemicals, environmental protection, hospitals, or domestic use. With handle.

- ▶ Made of white PP
- ▶ Air-tight closure
- ▶ Complete with lid
- ▶ With advertising printing in large quantities on request

**Bulk Prices**

Packaging bucket round shaped								
Capacity l	Upper dia. mm	Height with lid mm	Price/Unit	Price/Unit of (X) units	Article No.			
1	132	131	1,09	(100) 0,99	2327-0001 N3			
2	175	132	1,72	(40) 1,58	2327-0020 N3			
3	225	123	2,16	(45) 1,97	2327-0030 N3			
5	225	194	2,76	(36) 2,45	2327-0050 N3			
10	268	263	3,69	(25) 3,38	2327-0010 N3			

## Storage/stacking containers | lightweight, standardised

## Universal storage containers | multipurpose



Stable storage containers made of durable plastics with external reinforcement ribs.

Lids and transport rollers are useful accessories.



General purposes containers, available in different basic sizes, with comfortable gripping edges. These containers are often used in the foodstuffs/hygiene sector.

The containers are made of white HDPE with accessory white PS lids. The lids are not resistant against strong acids, bases and solvents.

### ► Stackable

### Storage and stacking containers, standardised



Capacity l	Outer LxWxH mm	Inner LxWxH mm	Price/Unit	Price/Unit of (X) units	Article No.
11	400 x 300 x 120	367 x 267 x 116	15,50	(10) 14,25	3414-0111 N2
17	400 x 300 x 180	367 x 267 x 176	18,95	(10) 17,35	3414-0117 N2
20	400 x 300 x 220	367 x 267 x 216	25,10	(10) 22,20	3414-0120 N2
23	600 x 400 x 120	567 x 367 x 114	25,05	(10) 22,90	3414-0123 N2
38	600 x 400 x 180	567 x 367 x 176	31,95	(10) 29,00	3414-0138 N2
48	600 x 400 x 220	567 x 367 x 216	36,40	(10) 33,20	3414-0148 N2
64	600 x 400 x 320	567 x 367 x 316	42,35	(10) 38,60	3414-0164 N2

### Accessories for standardised containers



	Price/Unit	Price/unit of (X) units	Article No.
Lid for 3414-0111 and 3414-0117	<b>9,65</b>	(10) 8,85	3414-0001 N2
Lid for 3414-0123 to 3414-0181	<b>15,50</b>	(10) 14,25	3414-0002 N2
Transport trolley for container with size 600 mm x 400 mm	68,65	(10) 62,40	3414-9900 N2

### Universal storage containers, made of HDPE



Capacity l	Outer LxWxH mm	Inner LxWxH mm	Price/Unit	Price/Unit of (X) units	Article No.
29	660x450x130	600x400x120	23,90	(10) 21,85	3418-0129 N2
48	660x450x220	600x400x210	34,00	(10) 30,90	3418-0148 N2
94	660x450x410	600x400x400	51,05	(10) 46,30	3418-0194 N2

### Accessories



Lid for 3418-0129, -0148 and -0194, white	<b>15,90</b>	(10) 14,45	3418-0001 N2
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## Mixing/dosing container



The container can be sealed tight. It is thick-walled, seamless, impact resistant and stress-free sintered. Safe filling is possible through the wide-mouthed opening. With screw lid in which threaded connectors, tube connectors and hand mixing devices can be mounted.

- ▶ Container made of LDPE
- ▶ With  $\frac{3}{4}$ " inner thread at bottom
- ▶ Opening-diameter 150 mm

All thread fittings with  $\frac{3}{4}$ " external thread on the pages 235 to 238 fit the floor connection thread.

Mixing/dosing container, LDPE				
Capacity l	Container Dia. x H mm	Scale grad. litres	Price/Unit	Article No.
60	450x600	10	115,45	3460-0060 N2
100	465x850	10	156,00	3460-0100 N2
200	560x1020	20	249,60	3460-0200 N2
500	815x1140	50	478,40	3460-0500 N2

## Tubs, round | sturdy, stackable



Multi-purpose tub, robust, with strong edge and practical handles for safe transport. Every tub is available with a lid.

- ▶ Tubs made of HDPE
- ▶ Suitable for foodstuffs
- ▶ High degree of chemical resistance

Tubs, round, made of HDPE			
Capacity l	Dia. top / Dia. bottom x H mm	Price/Unit	Article No.
40	370/330x440	37,25	3482-0040 N3
50	370/330x555	44,40	3482-0050 N3
75	460/400x535	53,05	3482-0075 N3
110	460/420x710	111,30	3482-0110 N3
Lids for tubs			
fits for tub		Price/Unit	Article No.
40 + 50 l		9,15	3482-0401 N3
75 l + 110 l		20,50	3482-0751 N3

## Stirring paddle



In PP, for gentle stirring in plastic and glass containers.

- ▶ Made of opaque PP
- ▶ Breakproof
- ▶ Warp resistant

Stirring paddle/Paddle blade				
Length mm	Width mm	Overall length cm	Price/Unit	Article No.
155	130	117	30,45	8203-2100 N3
190	167	171	36,50	8203-3150 N3

Containers, rectangular or round shaped | sintered stress-free, transparent, with or without lid



### Threaded joints

are possible at any place. Please indicate the exact position if applicable.

### Example

On the lengthwise side in the middle, as far down as possible.

#### Container threads incl. mounting on containers

Outer thread	Price/ Unit	Article No.
3/4"	34,15	3440-0034 N2
StopCock spigot with nozzle	19,35	0525-1000 N4

Seamless open containers, excellently suited as baths or for foodstuffs. Produced with the LaboPlast® Sintering Method (wall thickness increases from top to bottom, thus optimising the relationship between wall thickness and stress through mass of contents). The containers can be supplied with threaded connectors and spigots in any desirable place.

Depending on the intended use, also available in black (UV-protection) and in different wall thicknesses.

► Made of transparent PE-LLD, breakproof

Container connectors and spigots can be found on pages 40ff.

Depending on temperature and the expected contents, the rectangular containers may have to be strengthened with a frame. Kindly you ask us.

# Containers, rectangular or round shaped | sintered, stress-free, transparent, with or without lid

Rectangular shaped containers   							Lids  		Round shaped containers   						Lids  	
Capacity l	L / mm	W / mm	H / mm	Wall thickness mm	Price/ Unit	Article No. Unit	Price/ Unit	Article No.	Capacity Inner l	Overall dia. mm	Overall height mm	Wall thckn. mm	Price/ Unit	Article No.	Price/ Unit	Article No.
13	220	220	410	5	76,95	3440-0135 N2	44,40	3440-0131 N2	14	245	325	5	70,70	3490-0144 N2	41,00	3490-0141 N2
23	540	370	130	5	90,50	3440-0235 N2	93,60	3440-0231 N2	25	310	390	5	76,95	3490-0254 N2	41,00	3490-0251 N2
40	390	190	620	5	102,95	3440-0405 N2	61,35	3440-0401 N2	30	310	430	5	79,05	3490-0305 N2	41,00	3490-0301 N2
45	600	600	165	5	106,10	3440-0455 N2	123,75	3440-0451 N2	35	320	530	5	85,30	3490-0355 N2	47,85	3490-0351 N2
48	400	400	300	5	98,80	3440-0485 N2	85,30	3440-0481 N2	50	410	480	5	93,60	3490-0505 N2	47,85	3490-0501 N2
50	1000	320	160	5	102,95	3440-0505 N2	130,00	3440-0501 N2	55	310	915	5	102,95	3490-0555 N2	41,00	3490-0551 N2
56	315	315	635	5	112,30	3440-0565 N2	71,75	3440-0561 N2	60	410	530	5	96,70	3490-0605 N2	47,85	3490-0601 N2
70	460	310	570	5	123,75	3440-0705 N2	83,20	3440-0701 N2	80	430	590	5	102,95	3490-0805 N2	47,85	3490-0801 N2
85	600	340	480	5	135,20	3440-0855 N2		3440-0851 N2	85	390	710	5	106,10	3490-0855 N2	47,85	3490-0851 N2
90	600	400	410	6	146,65	3440-0906 N2	96,70	3440-0901 N2	100	470	680	5	116,50	3490-1005 N2	47,85	3490-1001 N2
100	780	460	320	6	157,05	3440-1006 N2	123,75	3440-1001 N2	110	540	540	6	125,85	3490-1106 N2	59,30	3490-1101 N2
115	500	400	600	6	166,40	3440-1156 N2	-		120	470	720	6	131,05	3490-1206 N2	47,85	3490-1201 N2
118	600	250	820	6	177,85	3440-1186 N2	88,40	3440-1181 N2	145	600	510	6	135,20	3490-1456 N2	59,30	3490-1451 N2
130	710	330	560	6	176,80	3440-1306 N2	106,10	3440-1301 N2	150	550	730	6	151,85	3490-1506 N2	59,30	3490-1501 N2
150	600	400	630	6	188,25	3440-1506 N2	102,95	3440-1501 N2	160	460	1020	6	156,00	3490-1606 N2	47,85	3490-1601 N2
155	600	500	560	6	197,60	3440-1556 N2	113,35	3440-1551 N2	180	540	820	6	161,20	3490-1806 N2	59,30	3490-1801 N2
165	780	500	420	6	193,45	3440-1656 N2	134,15	3440-1651 N2	200	560	840	6	170,55	3490-2006 N2	59,30	3490-2001 N2
190	600	400	800	6	223,60	3440-1906 N2	102,95	3440-1901 N2	205	800	440	6	172,65	3490-2056 N2	92,55	3490-2051 N2
250	1000	600	450	6	265,20	3440-2506 N2	177,85	3440-2501 N2	210	540	950	6	179,90	3490-2106 N2	59,30	3490-2101 N2
260	800	600	600	7	312,00	3440-2607 N2	144,55	3440-2601 N2	250	550	1040	6	197,60	3490-2506 N2	59,30	3490-2501 N2
285	600	600	820	7	326,55	3440-2857 N2	130,00	3440-2851 N2	290	740	770	6	240,25	3490-2906 N2	72,80	3490-2901 N2
320	1000	400	800	7	354,65	3440-3207 N2	161,20	3440-3201 N2	300	690	830	6	228,80	3490-3006 N2	72,80	3490-3001 N2
400	860	560	840	7	405,60	3440-4007 N2			400	760	1050	6	356,70	3490-4006 N2	72,80	3490-4001 N2
									850	970	1170	7	642,70	3490-8507 N2	164,30	3490-8501 N2

## Directory of fittings



- 218 Flow indicators
- 220 Universal hose tubing connectors
- 221 T-/Y-connectors
- 223 Non-return valves
- 225 Two-/Three-way valves
- 226 CPC rapid couplings
- 230 Hoses/tubings
- 232 Stop-it hose clamp
- 234 Hose clips
- 235 Threaded fittings
- 238 Ball valve made of PP
- 239 StopCock spigot





**Fittings**  
Valves and hoses

## Flow indicators

Two types are available –  
LiquiMobil oder CheMobil

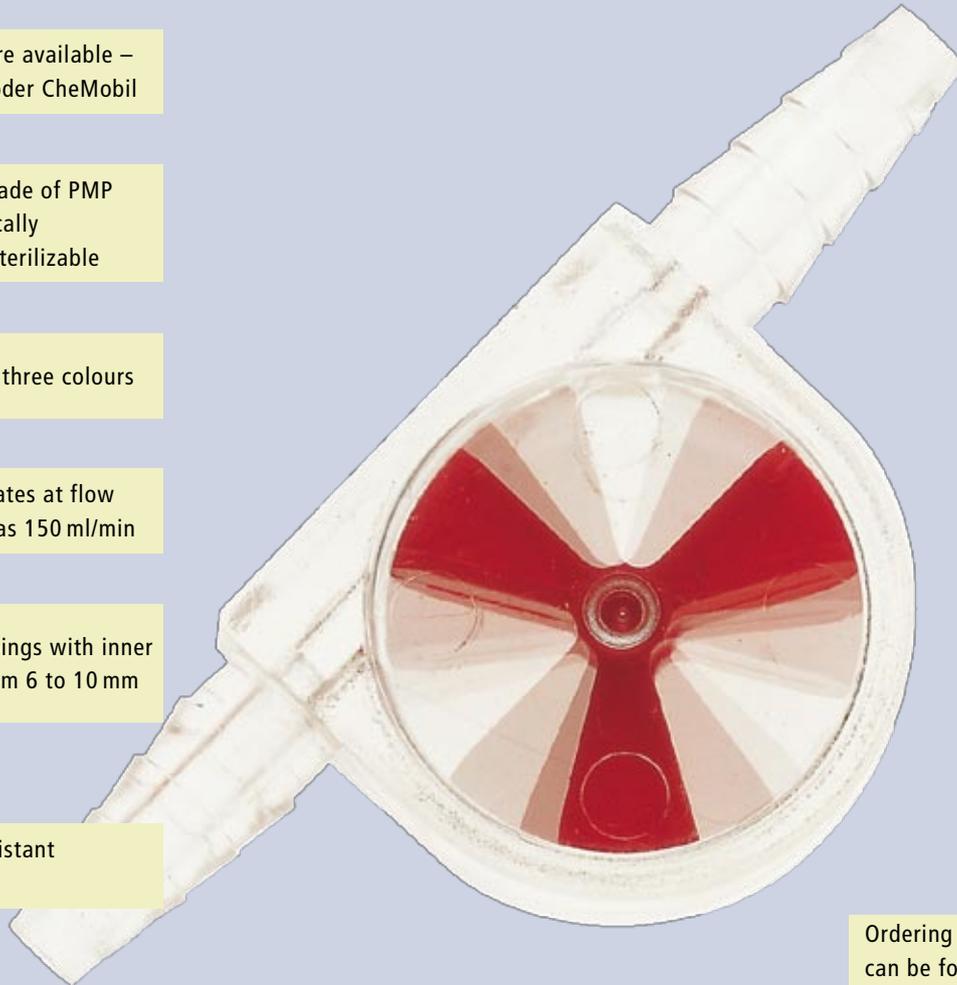
CheMobil made of PMP  
good chemically  
resistance, sterilizable

Available in three colours

Impeller rotates at flow  
rate as low as 150 ml/min

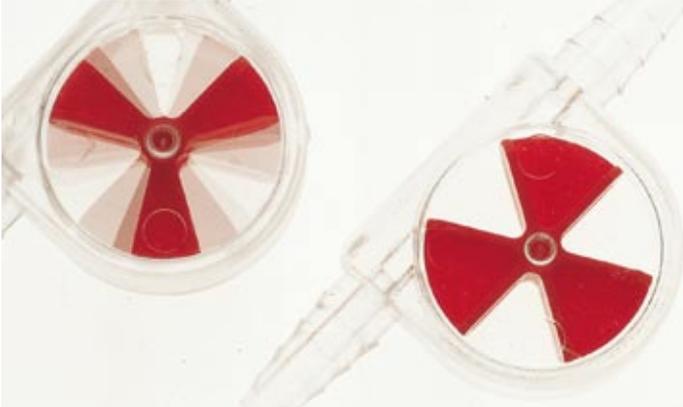
For hose tubings with inner  
diameter from 6 to 10 mm

Pressure resistant  
up to 2 bar



Ordering informations  
can be found on page 219

## Flow indicators | LiquiMobil/CheMobil made of SAN and PMP/TPX



CheMobil and LiquiMobil give precise optical indication of the flow velocity of liquids or gases being transported through hose connections. The coloured impeller rotates even at low flow speeds and shows the flow velocity (the impeller starts to rotate at a flow rate about 150 ml/min water). The flow indicator functions in both directions and in any position. The compact size (length including nozzles 88 mm, height 40 mm, breadth 15 mm) enables the flow indicator to fit into the smallest aggregates

- ▶ For hose tubing with internal diameter of 6 – 11 mm
- ▶ Max. pressure resistance 2 bar
- ▶ Max. operating temperature SAN +30 °C, PMP/TPX +60 °C
- ▶ Color coded, blue, red, black

LiquiMobil in SAN, is mainly suitable for cooling systems and helps to reduce the water consumption considerably. Not suitable for aggressive substances.

CheMobil in PMP/TPX can be used for many substances due to its good chemical resistance. Not suitable for strong acids, alkalis and solvents. CheMobil can be steam sterilized.

LiquiMobil made of SAN glass-clear  			
Color	Price/Unit	Price/Unit of (X) units	Article No.
blue	9,55	(10) 8,75	8720-1005 N4
red	9,55	(10) 8,75	8720-1002 N4
black	9,55	(10) 8,75	8720-1003 N4

CheMobil made of PMP/TPX glass-clear, sterilizable    			
Color	Price/Unit	Price/Unit of (X) units	Article No.
blue	11,75	(10) 10,40	8720-2005 N4
red	11,75	(10) 10,40	8720-2002 N4
black	11,75	(10) 10,40	8720-2003 N4

# Hose tubing connectors | PP/PVDF, conform to standard specification



## Hoses tubing connectors

- ▶ Conform to standard specifications
- ▶ Secure attachment
- ▶ Sterilizable

## ▶ Slip-proof ferrules

Tubing connectors made of PVDF can be used even with aggressive media and at particularly high temperatures.

### Hose tubing connectors, straight, PP

with cylindrical nozzles

fits for hose inner dia. from ... to mm	Price/Bag with 10 pcs.	Price/Bag of (X) bags with 10 pcs.	Article No.
3 5	3,12	(20) 2,93	8701-0004 N4
5 7	4,00	(20) 3,59	8701-0006 N4
7 9	4,52	(20) 4,11	8701-0008 N4
9 11	5,10	(20) 4,58	8701-0010 N4
11 13	5,80	(20) 5,30	8701-0012 N4
13 15	6,65	(20) 6,05	8701-0014 N4

### Hose tubing connectors, straight, PP

with conical nozzles

fits for hose inner dia. from ... to mm	Price/Bag with 10 pcs.	Price/Bag of (X) bags with 10 pcs.	Article No.
3 5	5,15	(10) 4,68	8700-0406 N3
5 7	5,60	(10) 5,10	8700-0608 N3
7 10	6,85	(10) 6,15	8700-0810 N3
9 12	8,00	(10) 7,40	8700-1012 N3
11 14	9,65	(10) 8,75	8700-1214 N3
13 15	10,90	(10) 10,10	8700-1416 N3

### Universal hose tubing connectors, PP

with conical nozzles

fits for hose inner dia. from ... to mm	Price/Bag with 10 pcs.	Price/Bag of (X) bags with 10 pcs.	Article No.
4 17	14,75	(10) 13,30	8700-0417 N4

### Hose tubing connectors, straight, PVDF

with cylindrical nozzles

fits for hose inner dia. from ... to mm	Price/Bag with 10 pcs.	Price/Bag of (X) bags with 10 pcs.	Article No.
3 5	4,21	(20) 3,69	8710-0004 N4
5 7	5,15	(20) 4,73	8710-0006 N4
7 9	6,05	(20) 5,40	8710-0008 N4
9 11	6,75	(20) 6,05	8710-0010 N4
11 13	7,60	(20) 6,95	8710-0012 N4
13 15	9,15	(20) 8,10	8710-0014 N4

### Universal hose tubing connectors, PVDF

with conical nozzles

fits for hose inner dia. from ... to mm	Price/Bag with 10 pcs.	Price/Bag of (X) bags with 10 pcs.	Article No.
4 17	21,10	(20) 19,15	8710-0417 N4



# Hose tubing connectors | made of PP or PVDF, with excellent chemical resistance



## Hose tubing connectors

- ▶ Conform to standard specifications
- ▶ Secure attachment
- ▶ Sterilizable



## ⚠ Minimum order

1 bag with 10 connectors per bag



## ▶ Slip-proof ferrules

### Reducing hose connectors, PP

with conical nozzles

fits for hose inner dia. from ... to mm	Price/ Bag with 10 pcs.	Price/Bag of (X) bags with 10 pcs.	Article No.
4-8/8-10 mm	10,60	(10) 9,90	8703-0408 N3
4-8/12-16 mm	11,65	(10) 10,80	8703-0412 N3
8-12/12-16 mm	13,10	(10) 11,65	8703-0812 N3

### T-connectors, PP

with cylindrical nozzles

fits for hose inner dia. from ... to mm	Price/ Bag with 10 pcs.	Price/Bag of (X) bags with 10 pcs.	Article No.
3 5	4,52	(20) 4,11	8705-0004 N4
5 7	5,60	(20) 4,99	8705-0006 N4
7 9	6,55	(20) 5,80	8705-0008 N4
9 11	7,50	(20) 6,85	8705-0010 N4
11 13	8,75	(20) 7,60	8705-0012 N4
13 15	10,10	(20) 9,15	8705-0014 N4

### Y-connectors, PP

with cylindrical nozzles

fits for hose inner dia. from ... to mm	Price/ Bag with 10 pcs.	Price/Bag of (X) bags with 10 pcs.	Article No.
3 5	6,55	(20) 5,80	8706-0004 N4
5 7	7,50	(20) 6,85	8706-0006 N4
6 8	9,55	(20) 8,75	8706-0007 N4
7 9	9,55	(20) 8,75	8706-0008 N4
9 11	10,90	(20) 9,90	8706-0010 N4
11 13	12,50	(10) 11,25	8706-0012 N4
13 15	14,45	(10) 13,10	8706-0014 N4

 **Bulk Prices**

### T-connectors, PVDF

with cylindrical nozzles

3 5	6,25	(20) 5,70	8711-0004 N4
5 7	7,60	(20) 6,95	8711-0006 N4
7 9	9,25	(20) 8,30	8711-0008 N4
9 11	10,40	(20) 9,45	8711-0010 N4
11 13	11,75	(20) 10,60	8711-0012 N4
13 15	13,85	(20) 12,40	8711-0014 N4

### Y-connectors, PVDF

with cylindrical nozzles

3 5	9,25	(20) 8,30	8712-0004 N4
5 7	10,40	(20) 9,45	8712-0006 N4
7 9	13,20	(20) 11,95	8712-0008 N4
9 11	15,20	(20) 13,75	8712-0010 N4
11 13	17,35	(20) 15,60	8712-0012 N4
13 15	19,95	(10) 18,00	8712-0014 N4

# Hose tubing connectors, hose tubing couplings



## Hoses tubing connectors

- ▶ Conforms to standard specifications
- ▶ Secure attachment
- ▶ Sterilizable



**⚠ Minimum order**  
1 bag with 10 connectors per bag



**⚠ Minimum order**  
1 bag with 10 connectors per bag

## Angled connectors, PP

with cylindrical nozzles



121\*

fits for hose inner dia. from ... to mm	Price/Bag with 10 pcs.	Price/Bag of (X) bags with 10 pcs.	Article No.
3 5	3,59	(20) 3,28	8707-0004 N4
5 7	4,00	(20) 3,59	8707-0006 N4
7 9	4,21	(20) 3,80	8707-0008 N4
9 11	4,99	(20) 4,52	8707-0010 N4
11 13	5,95	(20) 5,40	8707-0012 N4
13 15	6,95	(20) 6,25	8707-0014 N4

## Angled connectors, PVDF

with cylindrical nozzles



121\*

fits for hose inner dia. from ... to mm	Price/Bag with 10 pcs.	Price/Bag of (X) bags with 10 pcs.	Article No.
3 5	4,99	(20) 4,52	8713-0004 N4
5 7	5,40	(20) 4,99	8713-0006 N4
7 9	5,70	(20) 5,15	8713-0008 N4
9 11	6,85	(20) 6,25	8713-0010 N4
11 13	8,20	(10) 7,30	8713-0012 N4
13 15	9,80	(20) 8,85	8713-0014 N4

## Four-way-connectors, PP

with cylindrical nozzles



121\*

fits for hose inner dia. from ... to mm	Price/Bag with 10 pcs.	Price/Bag of (X) bags with 10 pcs.	Article No.
3 3,5	11,25	(10) 10,30	8708-0004 N3
4 5	11,95	(10) 10,90	8708-0006 N3
6 7	13,10	(10) 11,65	8708-0008 N3
8 9	14,35	(10) 13,30	8708-0010 N3
10 11	16,75	(10) 15,10	8708-0012 N3
12 13	18,50	(10) 16,95	8708-0014 N3

## Hose couplings, PE

with conical nozzles



fits for hose inner dia. from ... to mm	Price/Bag with 10 pcs.	Price/Bag of (X) bags with 10 pcs.	Article No.
3 5	9,90	(10) 9,05	8704-0406 N3
5 7	10,70	(10) 9,90	8704-0608 N3
7 10	13,00	(10) 11,45	8704-0810 N3
9 12	13,85	(10) 12,60	8704-1012 N3
11 14	16,10	(10) 14,65	8704-1214 N3
13 16	17,45	(10) 15,90	8704-1416 N3

**\* Bulk Prices**

## Non-return valves



With conical inlet/outlet. Multifaceted uses.

- ▶ 3 sizes
- ▶ Operates already when there is a pressure difference of 120 mbar either side of the valve
- ▶ Operating temperature 0 to 40 °C
- ▶ Valve ball made of PP, on request also available in stainless steel or PTFE

Non-return valves, PP with embossed direction arrow				
fits for hose inner dia. from ... to mm		Price/Unit	Price/Unit of (X) units	Article No.
6	8	2,29	(100) 2,09	8714-0060 N4
8	10	2,29	(100) 2,09	8714-0080 N4
10	14	2,86	(100) 2,26	8714-0100 N4

Non-return valves, PP with black printed direction arrow				
fits for hose inner dia. from ... to mm		Price/Unit	Price/Unit of (X) units	Article No.
6	8	2,51	(100) 2,30	8714-1006 N4
8	10	2,51	(100) 2,30	8714-1008 N4
10	14	3,07	(100) 2,48	8714-1010 N4

## Magic Box



Always quickly find the right hose connector that you need inside this magic box!

- ▶ Made of transparent PP, break proof

Contents of Magic Box: Straight hose connectors, Art. No. 8701-  
T-hose connectors Art. No. 8705-  
Y-hose connectors Art. No. 8706-  
Angled hose connectors Art. No. 8707-  
2 pcs. of each, in sizes 4, 6, 8, 10, 12 and 14 mm  
Universal hose connector Art. No. 8700-0417  
2 pcs., fits hoses from 4 to 17 mm  
Reducing hose connectors Art. No. 8703-  
2 pcs. each, in sizes 4–8, 4–12 and 8–12 mm

**Magic Box**  
with 56 connectors in total

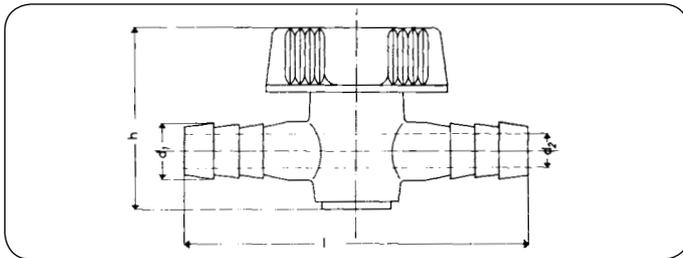
Price/Unit	Price/Unit of (X) units	Article No.
51,15	(5) 45,95	8715-1000 N4

## Hose tubing stop-cock



Simple shut-off cock with two-sided hose coupling, for low pressure operation.

- ▶ Made of PE
- ▶ Available in two nominal sizes



### Hose tubing stop-cock



d1 mm	d2 mm	l mm	h mm	Price/ Unit	Price/Unit of (X) units	Art. No.
11.5	7	71	37	2,59	(50) 2,48	8614-0007 N4
16.0	9	97	52	4,58	(50) 4,17	8614-0009 N4

## Valves made of PTFE



Valves made of massive PTFE (Teflon®) with hose nipples. Resistant against chemicals, and very easy connection thanks to its excellent antifriction properties. Blue handles are made of PP.

### ① Two-way valves



for hoseNom. width Price/ Price/Unit Article No.  
inner dia. of bore Unit of (X) units  
from .. to mm

4.5	2	27,55	(10) 24,85	8610-0010 N2
6.8	3	27,55	(10) 24,85	8610-0012 N2
10	4	36,80	(10) 33,05	8610-0015 N2

### ②

### Three-way valves

4.5	2	45,85	(10) 41,40	8610-0001 N2
6.8	3	45,85	(10) 41,40	8610-0003 N2
10	4	59,30	(10) 51,80	8610-0006 N2

- ▶ Pressure-resistant to 1 bar
- ▶ Suitable for vacuum up to  $10^{-1}$  bar
- ▶ Autoclavable

## Two- and three-way valves | made of PVDF or PP/PE

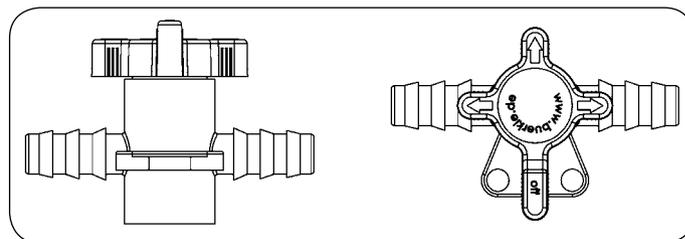
**Bulk Prices**



Valves are used when transferring liquids or gases. The valves' plastic material must not influence the substance being transported, particularly in chemistry, biology, pharmaceutical manufacturing and the foodstuffs industry. The two- and three-way valves are therefore available in two materials: transparent PVDF/PTFE and red/white PE/PP.

► **NEW:** Better handling and optimized design.  
Now with mounting plate for easier installation

- PVDF: good chemical resistance, transparent, suited for foodstuffs
- PP/PE: for industrial use
- Max. pressure resistance 1 bar, temperature range PP/PE 5 – 40 °C, PVDF 0 – 40 °C
- Three different nozzles available



### ① Two-way valves, PE NEW

for hose inner dia. from ... to	Nom. width of bore mm	Price/Unit	Price/Unit of (X) units	Article No.
5 - 7	4	5,80	(50) 5,20	8605-0060 N4
7 - 9	6	6,75	(50) 6,15	8605-0080 N4
9 - 11	8	7,70	(50) 6,95	8605-0100 N4
11 - 13	8	7,70	(50) 7,05	8605-0120 N4

### ② Two-way valves, PVDF/PTFE NEW

5 - 7	4	9,65	(50) 8,75	8607-0060 N4
7 - 9	6	11,45	(50) 10,40	8607-0080 N4
9 - 11	8	13,40	(50) 11,85	8607-0100 N4
11 - 13	8	13,10	(50) 11,95	8607-0120 N4

### ③ Three-way valves, PE NEW

for hose inner dia. from ... to	Nom. width of bore mm	Price/Unit	Price/Unit of (X) units	Article No.
5 - 7	4	9,65	(50) 8,75	8606-0060 N4
7 - 9	6	11,45	(50) 10,40	8606-0080 N4
9 - 11	8	13,40	(50) 11,85	8606-0100 N4
11 - 13	8	13,10	(50) 11,95	8606-0120 N4

### ④ Three-way valves, PVDF/PTFE NEW

5 - 7	4	15,10	(50) 13,75	8608-0060 N4
7 - 9	6	17,05	(50) 15,30	8608-0080 N4
9 - 11	8	18,80	(50) 17,05	8608-0100 N4
11 - 13	8	18,40	(50) 16,85	8608-0120 N4

# CPC rapid couplings | male connections



**CPC coupling** nom. width 3.2 mm (1/8"), flow opening, hose nipple 8 mm dia. 

① **Hose nipples (male connections) with external thread**

Thread	Nom. width	Length w/ w.o.valve	POM with valve		POM without valve		PP with valve	
			Price/ Unit*	Article No.	Price/ Unit*	Article No.	Price/ Unit*	Article No.
1/8" NPT	3.2	22/15			3,59	8750-1022 N3		
1/8" BSP	3.2	22/15	11,00	8750-1121 N3				

② **Hose nipples (male connections) with hose nozzles**

Innerdia. mm	Nom. width	Length w/ w.o.valve	Price/ Unit*	Article No.	Price/ Unit*	Article No.	Price/ Unit*	Article No.
1.6	3.2	34/20	11,65	8751-1101 N3	3,12	8751-1001 N3	15,50	8751-2101 N3
3.2	3.2	42/27	10,50	8751-1102 N3	1,93	8751-1002 N3	11,85	8751-2102 N3
4.8	3.2	44/32	10,60	8751-1103 N3	2,27	8751-1003 N3		
6.4	3.2	40/32	10,50	8751-1104 N3	2,39	8751-1004 N3	13,75	8751-2104 N3

③ **Hose nipple (male connections) with hose screw-joint**

InnerxOuter dia. mm	Nom. width	Length w/ w.o.valve	Price/ Unit*	Article No.	Price/ Unit*	Article No.	Price/ Unit*	Article No.
2x4	3.2	39/27	11,55	8752-1142 N3				
4x6	3.2	37/29	10,20	8752-1104 N3	5,20	8752-1004 N3	13,95	8752-2104 N3

④ **for plate mounting (male connections) with hose nozzle**

Inner dia. mm	Plate bore hole dia.	Nom. width	Length w/ w.o.valve	Price/ Unit*	Article No.
3.2	13	3.2	41/16	14,55	8753-1102 N3
4.8	13	3.2	46/16	15,30	8753-1103 N3
6.4	13	3.2	46/16	15,00	8753-1104 N3

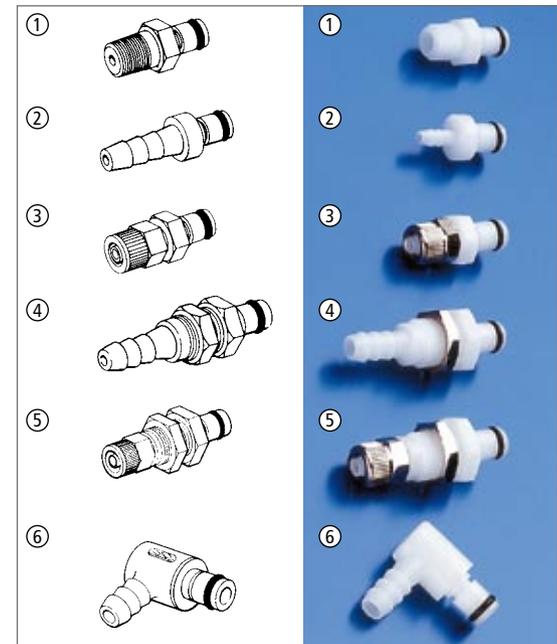
⑤ **for plate mounting (male connections) with hose screw-joint**

InnerxOut-Plate erdia. mm	Plate bore hole dia.	Nom. width	Length w/ w.o.valve	Price/ Unit*	Article No.
4x6	13	3.2	43/16	18,10	8754-1104 N3

⑥ **Angled nipples (male connections) with hose nozzle**

Innerdia. mm	Nom. width	Length w/ w.o.valve	Price/ Unit*	Article No.	Price/ Unit*	Article No.
3.2	3.2	28/28	14,55	8755-1102 N3		
6.4	3.2	28/28	14,55	8755-1104 N3	17,90	8755-2004 N3

CPC rapid couplings are the ideal connectors when connecting and separating hoses, machines, apparatus, containers, etc. Top quality, with tested reliability, small space requirement, maximum possible flow, easy operation (single handed operation) and an elegant design distinguish CPC rapid couplings, thus fulfilling the most stringent requirements.

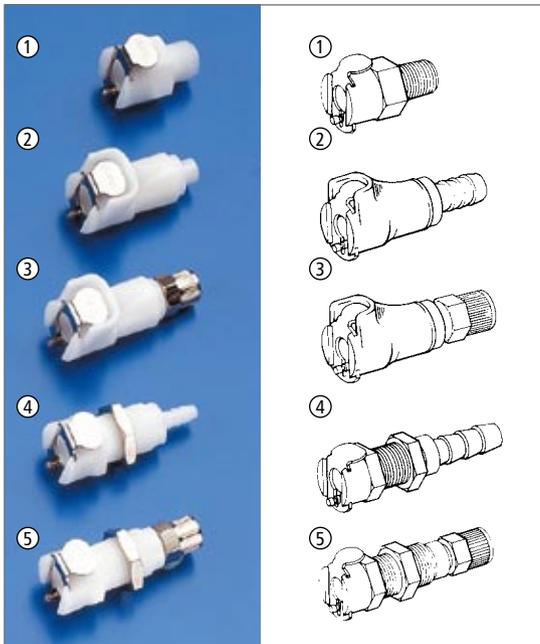


**Product information**

Body	POM	PP
<b>Spring/lock</b>	Stainless steel 316	Stainless steel 316
<b>Seal (standard)</b>	Buna-N	EPDM
<b>Color</b>	white	beige
<b>Working pressure</b> at 20°C	from vacuum	up to 8 bar
Nom. width 3.2 mm	up to 10 bar	
<b>Working temperature</b>	-40°C up to +80°C	0°C up to +110°C

## CPC rapid couplings | female connections

CPC is available in two different materials, POM (polyoxymethylene) and PP (polypropylene). CPC is available with a hose nozzle, hose screw-joint, thread connector or as a build-in component for control panels, with or without stop-valve respectively. The couplings are simply connected to each other, automatically clicking into place and opening the valve.



When disconnecting, (one handed operation), the valves are automatically sealed. No leakage occurs. The secure O-ring guarantees that CPC rapid couplings are leak-proof. CPC is available with nominal widths of 3.2 mm (1/8") or 6.4 mm (1/4"), see also pages 228 and 229.

All the couplings (female connections) and nipples (male connections) that are within the same flow range are interconnecting.



**CPC coupling** nom. width 3.2 mm (1/8"), flow opening, connector opening 8 mm dia.

① **Hose couplings (female connections)** with conical external thread

Thread	Nom. width mm	Length w./w.o.valve	POM with valve		POM without valve		PP with valve	
			Price/ Unit*	Article No.	Price/ Unit*	Article No.	Price/ Unit*	Article No.
1/8" NPT	3.2	26	10,60	8740-1122 N3			12,60	8740-2022 N3
1/4" NPT	3.2	28	10,60	8740-1142 N3				
1/4" BSP	3.2	28	11,15	8740-1141 N3				

② **Hose couplings (female connections)** with hose nozzles

Inner dia. mm								
3.2	3.2	42	10,70	8741-1202 N3	7,50	8741-1002 N3	11,85	8741-2002 N3
4.8	3.2	47	11,15	8741-1203 N3	7,70	8741-1003 N3		
6.4	3.2	47	10,70	8741-1204 N3	7,50	8741-1004 N3		

③ **Hose couplings (female connections)** with hose screw-joint

Inner x Outer dia. mm								
4x6	3.2	44	11,35	8742-1104 N3			18,30	8742-2004 N3

④ **for plate mounting with hose nozzle (female connections)**

Inner dia. mm   Plate bore hole dia.								
1.6	13	3.2	36	16,20	8743-1101 N3		19,25	8743-2001 N3
3.2	13	3.2	42	14,85	8743-1102 N3			
4.8	13	3.2	47	15,10	8743-1103 N3			
6.4	13	3.2	47	15,10	8743-1104 N3		18,30	8743-2004 N3

⑤ **for plate mounting with hole screw-joint (female connections)**

Inner x Out-Plate bore dia. mm   hole dia.								
4x6	13	3.2	44	15,30	8744-1104 N3	13,85	8744-1004 N3	19,45 8744-2004 N3

\*) Bulk prices for 25 pieces or more per size

# CPC rapid couplings | male connections

CPC coupling nom. width 6.4 mm (¼"), flow opening, hose nipple 11 mm dia.



## ① Hose nipples (male connections) with external thread

Thread	Nom. width	Length w/ w.o.valve	POM with valve		POM without valve		PP with valve	
			Price/ Unit*	Article No.	Price/ Unit*	Article No.	Price/ Unit*	Article No.
¼" NPT	6.4	38/32	11,65	8770-1142 N3	3,85	8770-1042 N3	16,00	8770-2142 N3
¼" BSP	6.4	38/32			3,85	8770-1041 N3		

## ② Hose nipples (male connections) with hose nozzles

Innerdia. mm	Nom. width	Length w/ w.o.valve	Price/ Unit*	Article No.	Price/ Unit*	Article No.	Price/ Unit*	Article No.
6.5	6.4	47/32	11,55	8771-1140 N3	2,50	8771-1040 N3	13,75	8771-2140 N3
8	6.4	47/32	11,55	8771-1150 N3	2,50	8771-1050 N3		
9.5	6.4	42/32	11,55	8771-1160 N3	2,50	8771-1060 N3	15,00	8771-2160 N3

## ③ Hose nipple (male connections) with hose screw-joint

InnerxOuter dia. mm	Nom. width	Length w/ w.o.valve	Price/ Unit*	Article No.	Price/ Unit*	Article No.	Price/ Unit*	Article No.
4x6	6.4	45/32	13,60	8772-1140 N3				
6x8	6.4	43/35	15,30	8772-1380 N3	11,85	8772-1280 N3	11,85	8751-2102 N3
8x10	6.4	43/35	20,20	8772-1310 N3				

## ④ for plate mounting (male connections) with hose nozzle

Inner dia. mm	Plate bore hole dia.	Nom. width	Length w/ w.o.valve	Price/ Unit*	Article No.	Price/ Unit*	Article No.
6.5	19	6.4	49/35	15,20	8773-1140 N3	6,95	8773-1040 N3
8	19	6.4	49/42	16,20	8773-1150 N3		
9.5	19	6.4	49/47	19,75	8773-1160 N3	8,95	8773-1060 N3

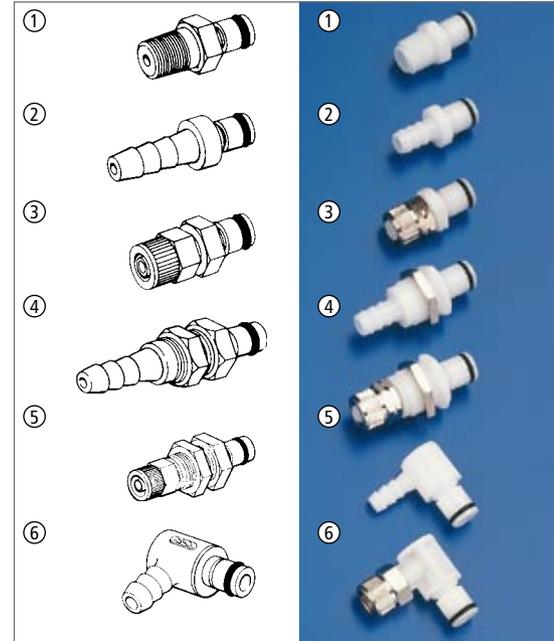
## ⑤ for plate mounting (male connections) with hose screw-joint

Inner dia. mm	Out-Plate bore hole dia.	Nom. width	Length w/ w.o.valve	Price/ Unit*	Article No.
4x6	19	6.4	45/45	14,55	8774-1140 N3
6x8	19	6.4	49/49	19,45	8774-1380 N3

## ⑥ Angled nipples (male connections) with hose nozzle

Innerdia. mm	Nom. width	Length w/ w.o.valve	Price/ Unit*	Article No.	Price/ Unit*	Article No.
6.5	6.4	31/31			9,15	8775-1040 N3
9.5	6.4	31/31	14,55	8775-1160 N3	9,15	8775-1060 N3
					17,90	8775-2160 N3

\*) Quantity rebate: rebate for 25 pieces per size

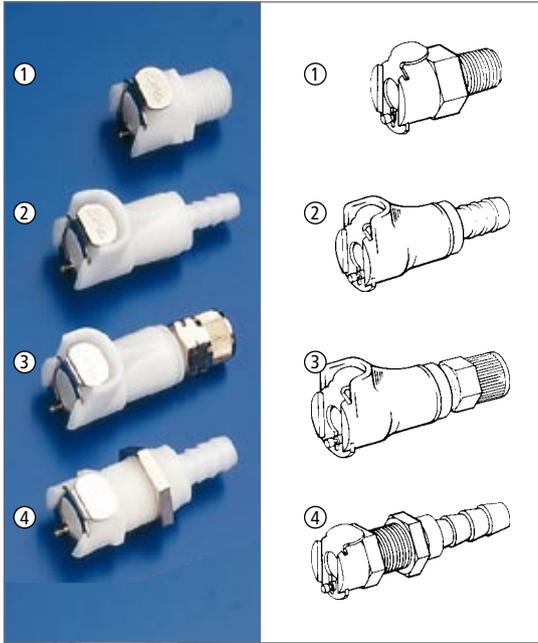


**Bulk Prices**

### Product information

Body	POM	PP
<b>Spring/lock</b>	Stainless steel 316	Stainless steel 316
<b>Seal (standard)</b>	Buna-N	EPDM
<b>Color</b>	white	beige
<b>Working pressure</b> at 20°C from vacuum	up to 10 bar	up to 8 bar
Nom. width 3.2 mm	up to 10 bar	
<b>Working temperature</b>	- 40°C up to + 80° C	0° C up to + 110° C

# CPC rapid couplings | female connections



**Bulk Prices**

**CPC coupling** nom. width 6.4 mm (1/4"), flow opening, connector opening 11 mm dia.

**① Hose couplings (female connections) with conical external thread**

Thread	Nom. width	Length w./w.o.valve	POM with valve		POM without valve		PP with valve	
			Price/ Unit*	Article No.	Price/ Unit*	Article No.	Price/ Unit*	Article No.
1/4" NPT	6.4	29	11,55	8760-1142 N3	10,30	8760-1042 N3	14,15	8760-2141 N3
3/8" NPT	6.4	29					19,15	8760-2161 N3
1/4" BSP	6.4	29	11,55	8760-1141 N3	10,30	8760-1041 N3		
3/8" BSP	6.4	29			10,50	8760-1061 N3		

**② Hose couplings (female connections) with hose nozzles**

Inner dia. mm	Nom. width	Length	POM with valve Price/ Unit*	POM with valve Article No.	POM without valve Price/ Unit*	POM without valve Article No.	PP with valve Price/ Unit*	PP with valve Article No.
6.5	6.4	50	11,75	8761-1140 N3	9,80	8761-1040 N3	15,40	8761-2140 N3
8	6.4	50	11,75	8761-1150 N3	9,80	8761-1050 N3		
9.5	6.4	50	11,75	8761-1160 N3	9,80	8761-1060 N3	18,80	8761-2160 N3

**③ Hose couplings (female connections) with hose screw-joint**

Inner x Outer dia. mm	Nom. width	Length	POM with valve Price/ Unit*	POM with valve Article No.	POM without valve Price/ Unit*	POM without valve Article No.	PP with valve Price/ Unit*	PP with valve Article No.
4x6	6.4	47	16,85	8762-1140 N3				
6x8	6.4	50	18,10	8762-1380 N3				
8x10	6.4	50	19,15	8762-1310 N3				

**④ for plate mounting with hose nozzle (female connections)**

Inner dia. mm	Plate bore hole dia.	Nom. width	Length	POM with valve Price/ Unit*	POM with valve Article No.	POM without valve Price/ Unit*	POM without valve Article No.	PP with valve Price/ Unit*	PP with valve Article No.
6.5	19	6.4	50	22,15	8763-1140 N3	19,75	8763-1040 N3		
8	19	6.4	50	23,30	8763-1150 N3	20,80	8763-1050 N3		
9.5	19	6.4	50	22,15	8763-1160 N3			25,15	8763-2160 N3

**Hose couplings, 100 % plastic, no metal parts, without valve**  
**6.4 mm (1/4") flow opening, hose nipple/coupling 11 mm dia.**

Model	Connector type	Hose/ thread	Nom. w. mm	Length mm	Price/ Unit*	Article No.
⑤	coupling, compl.	hose nozzle	6.4	54	<b>4,63</b>	8780-1040 N3
⑤	coupling, compl.	hose nozzle	9.5	54	4,63	8780-1060 N3
⑥	coupling	hose nozzle	6.4	34	3,02	8781-1040 N3
⑥	coupling	hose nozzle	9.5	34	3,02	8781-1060 N3
⑦	coupling	thread	3/8" NPT	35	4,89	8783-1062 N3
⑧	nipple	hose nozzle	6.4	36	1,70	8782-1040 N3
⑧	nipple	hose nozzle	9.5	36	1,70	8782-1060 N3
⑨	angled-nipple	hose nozzle	9.5	23	3,90	8783-1060 N3

## Hoses/tubings

## PVC industrial tubing | glass-clear



Environmentally-friendly tubing made of soft PVC, cadmium-free, with high resistance against chemicals, high flexibilitys long-lasting class-clear transparency and excellent abrasion resistance.

- ▶ Glass-clear
- ▶ Hardness Shore A 80 ± 3
- ▶ Operating temperature -20 °C to +50 °C
- ▶ Slight odor
- ▶ Slight flavor

## PVC pressure tubing



Fabric reinforced, with long-lasting transparency, increased flexibility, high chemical resistance, excellent ageing and abrasion resistance, environmentally compatible, cadmium-free.

- ▶ Clear, water-blue
- ▶ Hardness Shore A 70 ± 3
- ▶ Operating temperature - 20 °C to + 60 °C
- ▶ TÜV-approved (Germany industry standards)
- ▶ Slight odor
- ▶ Slight flavor

### Bulk Prices

Dimensions		
Inner dia. mm	Outer dia. mm	wall thickn. mm
2.0	4.0	1.0
3.0	5.0	1.0
4.0	6.0	1.0
5.0	7.0	1.0
6.0	8.0	1.0
6.0	12.0	3.0
7.0	10.0	1.5
8.0	11.0	1.5
8.0	14.0	3.0
9.0	12.0	1.5
9.0	15.0	3.0
10.0	13.0	1.5
10.0	16.0	3.0
12.0	16.0	2.0
12.0	18.0	3.0
13.0	19.0	3.0
13.2	20.0	3.4
19.0	25.0	3.0

Large reels			Small reels		
Length roll m	Price/ Roll	Article No.	Length roll m	Price/ Roll	Article No.
100	9,80	8875-0204 N3	10	4,31	8801-0204 N3
100	13,40	8875-0305 N3	10	5,20	8801-0305 N3
100	15,30	8875-0406 N3	10	6,25	8801-0406 N3
100	18,30	8875-0507 N3	10	6,75	8801-0507 N3
100	21,95	8875-0608 N3	10	7,30	8801-0608 N3
100	39,30	8875-0710 N3	10	10,10	8801-0710 N3
50	22,35	8875-0811 N3	10	10,40	8801-0811 N3
50	23,00	8875-0912 N3	10	10,50	8801-0912 N3
50	26,50	8875-1013 N3	10	11,55	8801-1013 N3
50	40,25	8875-1216 N3	10	15,60	8801-1216 N3
50	66,55	8875-1319 N3	10	21,65	8801-1319 N3
50	90,50	8875-1925 N3	10	28,00	8801-1925 N3

Large reels				Small reels			
Max. press. bar	Length roll m	Price/ Roll	Article No.	Max. press. bar	Length roll m	Price/ Roll	Article No.
20	50	37,75	8876-0612 N3	20	10	14,05	8802-0612 N3
18	50	45,65	8876-0814 N3	18	10	16,20	8802-0814 N3
16	50	49,80	8876-0915 N3	16	10	17,35	8802-0915 N3
14	50	55,10	8876-1016 N3	14	10	18,60	8802-1016 N3
14	50	71,75	8876-1218 N3	14	10	22,65	8802-1218 N3
12	50	83,20	8876-1320 N3	12	10	24,35	8802-1320 N3

## Hoses/tubings

## PE tubing | polyethylene



Generally recognized as safe physiologically, resistant against (non-oxidizing) acids, caustic solutions, salts and a number of solvents, pressure resistant, flexible, impact resistant, light up to + 80 °C deformation resistant, also available in black (UV resistant) upon request.

- ▶ Transparent
- ▶ Hardness Shore A 80 ± 3
- ▶ Temperature range -40 °C to + 95 °C
- ▶ Slight odor
- ▶ Slight flavor
- ▶ Non-toxic
- ▶ Suitable for foodstuffs

## PTFE/Teflon® tubing



Excellent properties: extremely high chemical resistance against all chemicals, smallest frictional coefficient, excellent anti-adhesive qualities/residue emptying. PTFE tubing does not emit odours, burn or smoke and is resistant to ageing and UV light. Not resistant to fluorine compounds or strong reducing agents.

- ▶ Opaque
- ▶ Hardness: test according ASTM D55
- ▶ Temperature range -200 °C to +260 °C
- ▶ Sterilizable, ethylene oxide
- ▶ Odorless
- ▶ Flavorless
- ▶ Non-toxic

**Bulk Prices**

Dimensions		
Inner dia. mm	Outer dia. mm	wall thicken. mm
1.0	3.0	1.0
2.0	4.0	1.0
3.0	5.0	1.0
4.0	6.0	1.0
6.0	8.0	1.0
8.0	10.0	1.0
10.0	12.0	1.0
10.0	14.0	2.0
12.0	16.0	2.0

Large reels				Small reels   			
Max. press. bar	Length roll m	Price/ Roll	Article No.	Max. press. bar	Length roll m	Price/ Roll	Article No.
15	100	20,50	8878-0305 N3	15	10	6,95	8805-0305 N3
10	100	25,60	8878-0406 N3	10	10	7,70	8805-0406 N3
8	100	35,65	8878-0608 N3	8	10	11,35	8805-0608 N3
9	100	123,75	8878-1014 N3	9	10	22,65	8805-1014 N3
				8	10	26,10	8805-1216 N3

Large reels				Small reels   			
Max. press. bar	Length roll m	Price/ Roll	Article No.	Max. press. bar	Length roll m	Price/ Roll	Article No.
30	50	83,20	8879-0103 N3	30	5	14,05	8804-0103 N3
20	50	113,35	8879-0204 N3	20	5	18,10	8804-0204 N3
15	50	149,75	8879-0305 N3	15	5	22,35	8804-0305 N3
12	50	166,40	8879-0406 N3	12	5	24,95	8804-0406 N3
8.5	50	237,10	8879-0608 N3	8.5	5	34,00	8804-0608 N3
6.5	50	319,30	8879-0810 N3	6.5	5	44,80	8804-0810 N3
5.5	50	386,90	8879-1012 N3	5.5	5	55,10	8804-1012 N3

## Hoses/tubings

### Silicone tubing | standard quality

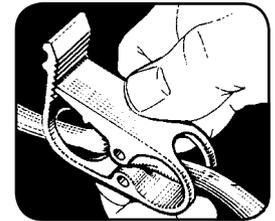
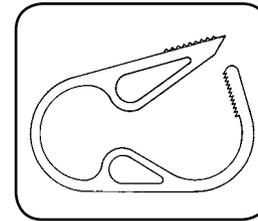


Highly flexible, transparent tubing. Good resistance against weak acids and alkalis. Do not use for strong acids and caustic solutions. Swells in organic solvents. Largely nonreactive to ionizing solvents except chlorinated aliphatic and aromatic hydrocarbons.

- ▶ Transparent
- ▶ Hardness Shore A 55 ± 5
- ▶ Temperature range -60 °C to +200 °C  
in short times +260 °C
- ▶ Sterilizable, ethylene oxide
- ▶ Slight odor
- ▶ Slight flavor
- ▶ Non-toxic

**\* Bulk Prices**

### Hose clamp Squeeze-Fix



The hose can be squeezed step-wise or completely compressed.

- ▶ Easily used with one hand
- ▶ Made of white acetal, sterilizable, does not rust, is permanently elastic, hygienic
- ▶ Available in 3 sizes

Dimensions		
Inner dia. mm	Outer dia. mm	wall thckn. mm
4.0	6.0	1.0
5.0	8.0	1.5
6.0	9.0	1.5
7.0	10.0	1.5
8.0	12.0	2.0
10.0	15.0	2.5
12.0	16.0	2.0

Large reels			Small reels		
Length roll m	Price/ Roll	Article No.	Length roll m	Price/ Roll	Article No.
50	53,05	8881-0406 N3	10	17,80	8803-0406 N3
50	90,50	8881-0508 N3	10	27,55	8803-0508 N3
50	105,05	8881-0609 N3	10	31,30	8803-0609 N3
50	116,50	8881-0710 N3	10	35,05	8803-0710 N3
50	160,15	8881-0812 N3	10	46,50	8803-0812 N3
50	246,50	8881-1015 N3	5	37,00	8803-1015 N3
25	112,30	8881-1216 N3	5	33,80	8803-1216 N3

Hose clamp Squeeze-Fix				
fits for hose dia. mm	Length mm	Price/ Unit	Price/Unit of (X) units	Article No.
1-5	25	0,48	(100) 0,41	8618-0001 N3
3-10	40	1,22	(100) 1,07	8618-0002 N3
6-15	55	1,80	(100) 1,63	8618-0003 N3

# stop-it with Easy-Click closure



stop-it is available in 3 sizes.



Stepless flow regulation with stop-it.



Four colors for better differentiation.



1. Attach stop-it – really easy.



2. click!



3. Regulate the flow.



4. Open and drop.

## Stepless flow regulation

The micro setting screw allows very fine stepless flow control; the flow can also be shut off completely, and that also with already existing hose connections. The fully adjustable pressure plate squeezes the hose against the stable steel hook. The hose is compressed over a wide area in order to prevent it from being damaged. Stop-it can be mounted on hoses after they have been connected.

## Easy-Click closure

stop-it can be opened and closed in any position – without any tiresome screwing on and off, see below.

## Top-quality material

stop-it is made from the heat-resistant and chemical resistant plastic PVDF, the clamp is galvanised steel.

## Sizes from 1 to 20 mm

stop-it is available for flexible tubing connections with outer diameters up to 10 mm, up to 15 mm and up to 20 mm.

- ▶ Temperature resistant up to 160 °C.
- ▶ Made of PVDF and galvanised steel.
- ▶ Available in 4 fresh colors.

**CLICK!**



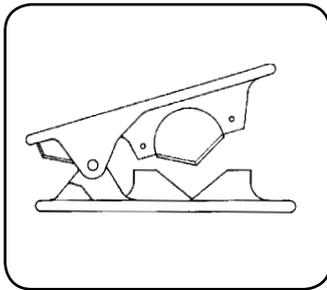
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Hose clamp stop-it			red	blue	green	yellow	
Hose dia. max. mm	Price/Unit	Price/Unit of (X) units	Article No.	Article No.	Article No.	Article No.	
to 10	1,89	(50) 1,71	8619-0102	8619-0105	8619-0106	8619-0104	N4
to 15	3,17	(50) 2,96	8619-0152	8619-0155	8619-0156	8619-0154	N4
to 20	4,00	(50) 3,64	8619-0202	8619-0205	8619-0206	8619-0204	N4

## Hose cutter



### Hose cutter

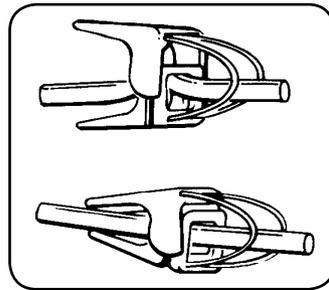
Edges cut with the hose cutter are always clean and flat, even in the case of thick hoses.

- Suitable for hoses with external diameter from 1 to 13 mm.

#### Hose cutter

Price/Unit	Price/Unit of (X) units	Article No.
6,35	(10) 5,80	0006-9506 N3

## Hose valve clamps



### Hose valve clamps

Practical and simple possibility to rapidly shut off and open hoses with one hand. Stainless steel springs press the clamp tightly together, squeezing with the hand opens the blocked hose immediately.

#### Hose valve clamps

for hose dia. mm	Price/Unit	Price/Unit of (X) units	Article No.
2-8	2,81	(100) 2,50	8724-0208 N3
8-12	4,07	(100) 3,69	8724-0812 N3

## Hose clips | stainless steel and polyacetal



**!** Minimum order  
1 bag with 10 clips

#### Hose clips Polyacetal (POM)

Fits to hose diameter min ... max mm	Price/Bag with 10 pieces	Price/Bag of (X) bags with 10 pieces	Article No.
6.0 6.5	2,49	(10) 2,29	8678-0006 N3
9.0 10.0	2,42	(10) 2,20	8678-0010 N3
10.0 11.0	2,42	(10) 2,20	8678-0011 N3
11.0 12.0	2,42	(10) 2,20	8678-0012 N3
12.0 14.0	2,42	(10) 2,20	8678-0014 N3
13.0 15.0	2,42	(10) 2,20	8678-0015 N3
15.0 17.0	2,42	(10) 2,20	8678-0017 N3
17.0 19.0	2,42	(10) 2,20	8678-0019 N3
18.0 20.0	3,02	(10) 2,81	8678-0020 N3
20.0 22.0	3,02	(10) 2,81	8678-0022 N3
23.0 25.0	3,02	(10) 2,81	8678-0025 N3

#### Worm-threaded hose clips

sleeve made of 1.4016 stainless steel, 9 mm wide, galvanized screw

8.0 12.0	8,30	(10) 7,50	8677-0812 N3
10.0 16.0	8,40	(10) 7,60	8677-1016 N3
12.0 20.0	9,65	(10) 8,85	8677-1220 N3
16.0 25.0	9,90	(10) 8,95	8677-1625 N3
20.0 32.0	10,00	(10) 9,15	8677-2032 N3
25.0 40.0	10,30	(10) 9,35	8677-2540 N3

# Threaded fittings made of PP | for the rapid and secure connection



**Tube nozzle, fixed outer thread**



**Tube nozzle with cap nut, inner thread**  
seal made of EPDM



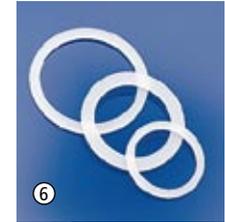
**Tube bend, fixed, made of PP, outer thread**



**Tube bend with cap nut, inner thread**  
seal made of EPDM



**Hexagonal nuts, inner thread**



**Flat seal**  
polyethylene, transparent, fits outer thread (No. 8538-) or inner thread (No. 8539-).

Useful accessory for all screw connections: sealing tape for threads, Art. No. 0006-4514

① Tube nozzles, fixed outer thread					
Thread	Nozzle dia. mm	Nominal width mm	Price/unit	Price/Unit of (X) units	Article No.
3/8"	12	7,5	0,76	(20) 0,70	8545-3812 N3
1/2"	13	8	0,98	(20) 0,88	8545-0012 N3
1/2"	16	10	1,19	(20) 1,08	8545-1216 N3
1/2"	20	13	1,25	(20) 1,15	8545-1220 N3
3/4"	16	10,5	1,11	(20) 1,00	8545-0034 N3
3/4"	12	7,5	1,09	(20) 0,99	8545-3412 N3
3/4"	20	13	1,26	(20) 1,16	8545-3420 N3
1"	25	19	1,36	(10) 1,25	8545-0100 N3

② Tube nozzles with cap nut, inner thread					
Thread	Nozzle dia. mm	Nominal width mm	Price/unit	Price/Unit of (X) units	Article No.
1/2"	13	9	1,81	(20) 1,64	8546-0012 N3
1/2"	16	10	2,06	(20) 1,86	8546-1216 N3
3/4"	16	10	1,93	(20) 1,76	8546-0034 N3
3/4"	10	6	2,28	(20) 2,22	8546-3410 N3
3/4"	12	7,5	2,07	(20) 1,88	8546-3412 N3
3/4"	13	8,5	2,40	(20) 2,28	8546-3413 N3
3/4"	20	13	2,24	(20) 2,03	8546-3420 N3
1"	25	20	2,25	(10) 2,04	8546-0100 N3

③ Tube bends, fixed outer thread					
Thread	Nozzle dia. mm	Nominal width mm	Price/unit	Price/Unit of (X) units	Article No.
1/2"	12	7,5	1,65	(20) 1,52	8547-0012 N3
1/2"	16	11	2,07	(20) 1,88	8547-1216 N3
1/2"	20	15	2,25	(20) 2,03	8547-1220 N3
3/4"	12	7,5	1,70	(20) 1,56	8547-0034 N3
3/4"	20	15	2,38	(20) 2,16	8547-3420 N3
3/4"	22	17	2,30	(20) 2,09	8547-3422 N3
1"	25	19,5	2,42	(10) 2,19	8547-0100 N3

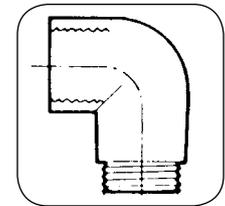
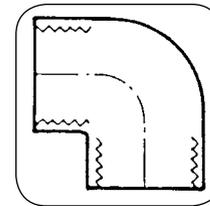
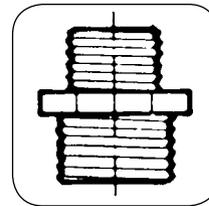
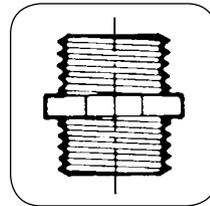
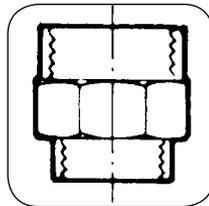
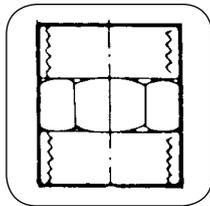
④ Tube bends with cap nut, inner thread					
Thread	Nozzle dia. mm	Nominal width mm	Price/unit	Price/Unit of (X) units	Article No.
1/2"	12	7,5	2,65	(20) 2,40	8548-0012 N3
3/4"	16	11	3,07	(20) 2,76	8548-0034 N3
3/4"	12	7	3,27	(20) 2,91	8548-3412 N3
3/4"	20	15,5	3,54	(20) 3,17	8548-3420 N3
1"	25	19,5	3,69	(10) 3,38	8548-0100 N3

⑤ Hexagonal nuts, inner thread				
Thread	Wrench width mm	Price/unit	Price/Unit of (X) units	Article No.
1/2"	27	1,70	(10) 1,56	8537-0012 N3
3/4"	36	1,93	(10) 1,76	8537-0034 N3
1"	46	2,12	(10) 1,94	8537-0100 N3

⑥ Flat seals made of PE			
Fits for thread	Price/Bag 10 pcs.	Price/Bag of (X) bags	Article No.
1/2" outer	2,03	(10) 1,84	8538-0012 N3
3/4" outer	2,10	(10) 2,05	8538-0034 N3
1" outer	4,17	(10) 3,80	8538-0100 N3
1/2" inner	2,03	(10) 1,84	8539-0012 N3
3/4" inner	2,10	(10) 2,05	8539-0034 N3
1" inner	4,17	(10) 3,85	8539-0100 N3

# Threaded fittings made of PP | for rapid and secure connection



**Socket**  
inner thread

- Made of PP

**Socket**  
reduced  
inner thread

- Made of PP

**Nipple**  
outer thread

- Made of PP

**Nipple**  
reduced  
outer thread

- Made of PP

**90° bend**  
inner thread

- Made of PP

**90° bend**  
inner/outer thread

- Made of PP

Useful accessory for all screw connections:  
sealing tape for threads, Art. No. 0006-4514

**① Sockets** inner thread

Thread	Nom. width of bore mm	Price/Unit	Price/Unit of (X) pcs.	Article No.
1/2"	19.0	2,12	(10) 1,93	8501-0012 N3
3/4"	23.0	2,58	(10) 2,35	8501-0034 N3
1"	28.5	3,38	(10) 3,07	8501-0100 N3

**② Sockets** reduced, inner thread

Thread	Nom. width of bore mm	Price/Unit	Price/Unit of (X) pcs.	Article No.
1/2" - 3/4"	17.5	3,69	(10) 3,43	8502-1234 N3
3/4" - 1"	23.0	4,63	(10) 4,17	8502-3410 N3

**③ Nipples** outer thread

Thread	Nom. width of bore mm	Price/Unit	Price/Unit of (X) pcs.	Article No.
1/2"	13.5	1,79	(10) 1,62	8505-0012 N3
3/4"	18.0	2,25	(10) 2,04	8505-0034 N3
1"	23.5	3,07	(10) 2,76	8505-0100 N3

**④ Nipples** reduced, outer thread

Thread	Nom. width of bore mm	Price/Unit	Price/Unit of (X) pcs.	Article No.
1/2" - 3/4"	13.5	3,38	(10) 3,07	8506-1234 N3
3/4" - 1"	18.0	4,31	(10) 3,95	8506-3410 N3

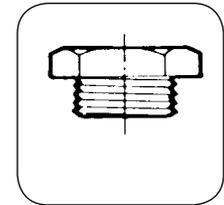
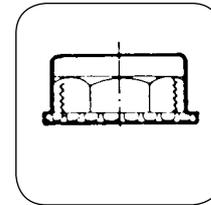
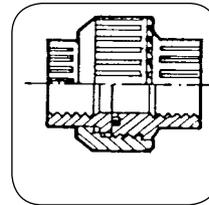
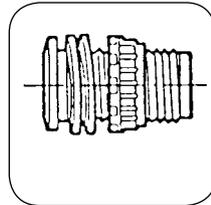
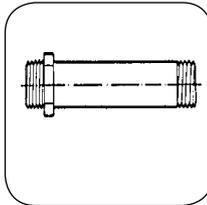
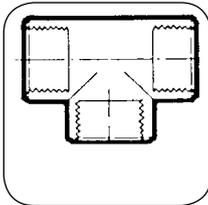
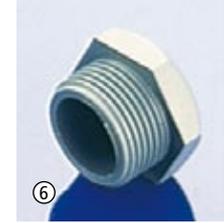
**⑤ 90° bends** inner thread

Thread	Nom. width of bore mm	Price/Unit	Price/Unit of (X) pcs.	Article No.
1/2"	17.5	2,25	(10) 2,04	8515-0012 N3
3/4"	23.0	3,17	(10) 2,91	8515-0034 N3
1"	28.5	3,69	(10) 3,38	8515-0100 N3

**⑥ 90° bends** inner/outer thread

Thread	Nom. width of bore mm	Price/Unit	Price/Unit of (X) pcs.	Article No.
1/2"	14.0	2,58	(10) 2,35	8516-0012 N3
3/4"	19.0	3,69	(10) 3,38	8516-0034 N3
1"	24.5	4,31	(10) 3,90	8516-0100 N3

# Threaded fittings made of PP | for rapid and secure connection



**T-piece**  
inner thread

**Tube extension**  
outer thread,  
length 150 mm

**Container connection**  
outer thread, complete with seals, for easy mounting of threads in container walls.

**Screw joint**  
inner thread  
enables easy disconnection of tube connections.

**Cap**  
inner thread

**Stopper**  
outer thread

- Made of PP

- Made of grey PP

Useful accessory for all screw connections:  
sealing tape for threads, Art. No. 0006-4514

**① T-pieces** inner thread

Thread	Nom. width of bore mm	Price/Unit	Price/Unit of (X) pcs.	Article No.
1/2"	17.5	2,91	(10) 2,58	8525-0012 N3
3/4"	23.0	3,69	(10) 3,38	8525-0034 N3
1"	28.5	4,89	(10) 4,42	8525-0100 N3

**② Tube extensions** outer thread, length 150 mm

Thread	Nom. width of bore mm	Price/Unit	Price/Unit of (X) pcs.	Article No.
1/2"	12.5	2,70	(10) 2,43	8520-0012 N3
3/4"	18.0	3,54	(10) 3,27	8520-0034 N3
1"	23.5	4,68	(10) 4,31	8520-0100 N3

**③ Container connection**

Thread	Nom. width of bore mm	Price/Unit	Price/Unit of (X) pcs.	Article No.
1/2"	13.5	6,15	(10) 5,60	8530-0012 N3
3/4"	18.0	7,05	(10) 6,55	8530-0034 N3
1"	24.0	8,10	(10) 7,40	8530-0100 N3

**④ Screw joints** inner thread

Thread	Nom. width of bore mm	Price/Unit	Price/Unit of (X) pcs.	Article No.
1/2"	17.5	9,05	(10) 8,30	8510-0012 N3
3/4"	21.5	10,10	(10) 9,15	8510-0034 N3
1"	26.5	10,50	(10) 13,00	8510-0100 N3

**⑤ Caps** inner thread

Thread	Price/Unit	Price/Unit of (X) pcs.	Article No.
1/2"	2,44	(10) 2,22	8535-0012 N3
3/4"	3,07	(10) 2,76	8535-0034 N3
1"	3,38	(10) 3,07	8535-0100 N3

**⑥ Stoppers** outer thread

Thread	Price/Unit	Price/Unit of (X) pcs.	Article No.
1/2"	1,79	(10) 1,62	8536-0012 N3
3/4"	2,25	(10) 2,04	8536-0034 N3
1"	2,81	(10) 2,49	8536-0100 N3

## Ball valve, PP | robust, universal



Made of fibre-glass reinforced PP, red handle with Viton and PTFE O-rings, maximum pressure 10 bar (at + 20 °C), maximum temperature + 100 °C.

### Ball valve made of PP

with connection on both sides



Thread	Nom. width of bore mm	Price/Unit	Price/Unit of (X) units	Article No.
½"	15	30,35	(5) 27,25	0500-8002 N3
¾"	20	34,65	(5) 31,10	0500-8003 N3
1"	25	42,20	(5) 38,05	0500-8001 N3

## Ball valve, PP | for foodstuff



New – now also for foodstuff, made of fibre-glass reinforced PP, ball made of PP-G, handle with O-ring NBR, seal HDPE. Max. pressure 10 bar (at + 20 °C), max. temperature 100 °C. Inner thread

### ① Ball valve

with outer thread on both sides

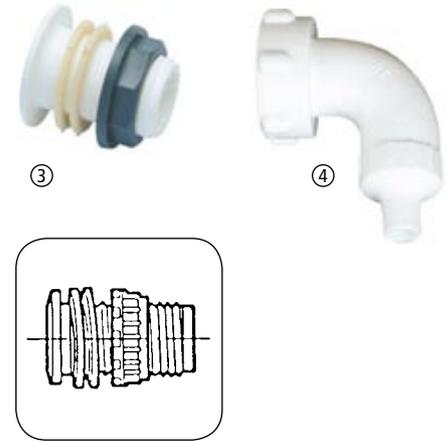


Thread	Nom. width of bore mm	Price/Unit	Price/Unit of (X) units	Article No.
½" (A) (C)	M20 15	12,00	(10) 10,80	0500-8102 N3
¾"	M25 20	14,30	(10) 12,90	0500-8103 N3
1"	M30 25	17,25	(10) 15,50	0500-8101 N3

② Ball valve with outer thread/inner thread complete with 2 seals and nut

Thread	Nom. width of bore mm	Price/Unit	Price/Unit of (X) units	Article No.
½" (B) (C)	M20 11	13,35	(10) 12,00	0500-8202 N3
¾"	M25 16	15,60	(10) 14,05	0500-8203 N3
1"	M30 22	18,90	(10) 17,00	0500-8201 N3

## Threaded fittings, PP



### ③ Container connection

outer thread, complete with seals, for easy mounting of threads in container walls.

► Made of PP

### ④ Tube bend with cap nut

inner thread

seal made of EPDM

### ③ Container connection



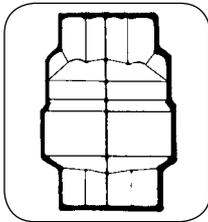
Thread	Nom. width of bore mm	Price/Unit	Price/Unit of (X) units	Article No.
½"	13.5	6,85	(10) 6,15	8533-0012 N3
¾"	18.0	7,95	(10) 7,20	8533-0034 N3
1"	24.0	8,40	(10) 7,60	8533-0100 N3

### ④ Tube bends

with cap nut, inner thread

Thread	Nozzle dia. mm	Nom. width mm	Price/Unit	Price/Unit of (X) units	Article No.
M20	9	15	2,91	(10) 2,63	8548-0020 N3
M25	10	20	3,21	(20) 2,89	8548-0025 N3
M30	11	25	3,84	(20) 3,45	8548-0030 N3

## Retaining valves



Made of PP and POM, max. pressure 6 bar (at + 20 °C), max. temperature + 80 °C, EPDM seal, spring made of AISI 316L.

② Retaining valves				
inner thread, EPDM seal				
Thread	Pressure	Price/Unit	Price/Unit	Article No.
diff.	Unit	of (X) units	of (X) units	
mbar				
1/2"	12	10,10	(10) 9,15	8540-0012 N3

## Sealing tape | PTFE



Sealing tape for threads made of PTFE.  
Low friction, excellent chemical resistance, temperature resistant between - 80 °C and + 260 °C.

- ▶ Length 12 m
- ▶ 12 mm wide
- ▶ 0.1 mm thick

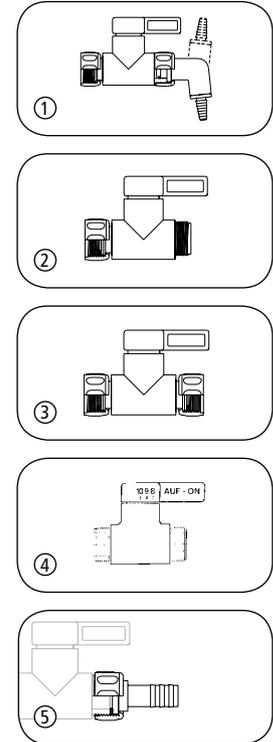
Sealing tape for threads			
Price/Unit	Price/Unit	Article No.	
Unit	of (X) units		
1,31	(10) 1,19	0006-4514	N3

## "StopCock" spigots



StopCock is a spigot for laboratories. It is absolutely water-tight, easy to operate with a safe spout. Materials are PP, PE and PTFE.

StopCock is available with different connections.  
Due to its R 3/4" standard thread, the spigot fits all commercially available 3/4" tube connections and steel drums with 3/4" ventilation openings.



Further spigots on the pages 40 to 43

StopCock							
Inlet	Outlet	Price/Unit	Price/Unit	Article No.			
		Unit	of (X) units				
① 3/4" inner thr. cap nut	spout/nozzle	19,35	(10) 17,35	0525-1000	N4		
② 3/4" inner thr. cap nut	3/4" outer thread	18,80	(10) 16,95	0525-5000	N4		
③ 3/4" inner thr. cap nut	3/4" thread cap	22,25	(10) 20,30	0525-7000	N4		
④ 3/4" outer thread	3/4" outer thread	20,90	(10) 18,95	0525-3000	N4		
<b>C</b> Hose nozzles, fit on both inlet and outlet sides of 0525-3000							
⑤	Hose nozzle, 4 mm	8,10		0525-1304	N4		
	Hose nozzle, 6 mm	8,10		0525-1306	N4		
	Hose nozzle, 8 mm	8,10		0525-1308	N4		
	Hose nozzle, 10 mm	8,10		0525-1310	N4		
	Hose nozzle, 12 mm	8,10		0525-1312	N4		
	Hose nozzle, 16 mm	8,10		0525-1316	N4		
⑥	Spout with nozzle	6,95		0525-1400	N4		

# Chemical resistance of plastics

Chemicals					Plastics																								
Formula	CAS-No.	Concentration	Hazard note	Inflammable	HDPE	LDPE	PA	PC	PETG	PMP	POM	PP	PS	PSU	PVC HARD	PVC SOFT	SAN	ECTFE/ETFE	FEP	PTFE	PVDF	EPDM	FPM	NBR	SI	AL	V2A	V4A	
Acetone	C <sub>3</sub> H <sub>6</sub> O	000067-64-1	F, Xi	X	1/1	3/3	1/0	4/4	4/4	2/3	1/3	1/3	4/4	4/4	4/4	0/0	4/4	2/3	(1)	1/1	3/4	1/0	4/4	4/4	0/0	1/1	1/1	1/1	1/1
Calcium chloride	CaCl <sub>2</sub>	010043-52-4	aqueous	Xi	1/1	1/1	1/0	1/0	1/0	1/1	(3)	1/1	1/1	1/0	1/3	1/0	1/1	1/1	1/1	1/1	1/1	1/0	1/1	1/1	0/0	3/3	1/2L	1/2L	
Chlorine	Cl <sub>2</sub>	007782-50-5	10 % wet	T	3/4	3/4	4/4	2/3	4/4	2/4	4/4	4/4	4/4	4/4	1/2	0/0	4/4	1/1	1/1	1/1	(2)	2/0	3/0	4/4	0/0	4/4	4/4	4/4	
Chloroform	CHCl <sub>3</sub>	000067-66-3	100 %	Xn	3/4	4/4	3/4	4/4	4/4	4/4	4/4	3/4	4/4	4/4	4/4	4/4	4/4	2/3	1/1	1/1	1/1	1/1	4/4	3/4	4/4	0/0	(3)	1/1	1/1
Developer for fotos	—	—	?		1/3	1/1	4/4	(2)	1/0	0/0	1/3	1/2	0/0	1/0	1/3	1/0	0/0	0/0	(1)	1/1	1/1	3/0	1/0	1/0	0/0	1/1	1/0	1/0	
Ethyl alcohol	C <sub>2</sub> H <sub>6</sub> O	000064-17-5	96 %	F	X	1/0	1/3	1/0	1/3	1/1	1/2	1/2	1/1	3/4	1/2	1/3	3/0	1/3	1/1	1/1	1/1	1/0	3/0	3/3	0/0	1/1	1/1	1/1	
Formaldehyde solution	CH <sub>2</sub> O	000050-00-0	40 %	T	1/2	2/3	1/3	1/2	1/0	1/2	1/2	1/2	4/4	2/3	2/3	3/3	0/4	1/1	1/1	1/1	1/1	1/1	1/0	3/0	(3)	0/0	1/1	1/1	1/1
Formic acid	CH <sub>2</sub> O <sub>2</sub>	000064-18-6	98-100 %	C	1/1	1/2	4/4	3/4	0/0	1/3	4/4	1/3	3/4	3/3	3/4	1/3	3/4	1/1	(1)	1/1	1/1	3/4	4/4	4/4	0/0	1/0	1/3	1/2	
Fuel oil	—	—		Xn	3/3	3/4	1/0	3/3	1/0	2/3	1/1	1/3	3/4	1/2	1/1	3/3	1/1	1/1	1/1	1/1	1/1	1/1	4/4	1/1	1/1	0/0	1/1	1/1	1/1
Gasoline	C <sub>8</sub> H <sub>12</sub> -C <sub>12</sub> H <sub>26</sub>	086290-81-5		F, Xn, N	X	2/3	3/4	1/0	3/3	(2)	2/3	1/2	3/4	4/4	3/3	2/4	0/0	0/4	1/1	1/1	1/1	1/1	4/4	(1-3)	3/0	0/0	1/1	1/1	1/1
Hydrogen chloride	HCl	007647-01-0	35 %	C	1/1	1/1	4/4	4/4	(4)	1/2	4/4	1/2	3/3	1/1	2/3	3/3	1/3	1/1	1/1	1/1	1/1	1/1	3/0	1/2	4/4	0/0	4/4	4/4	4/4
Hydrogen fluoride	HF	007664-39-3	70 %	T+, C	0/0	1/3	4/4	4/4	4/4	0/0	4/4	1/3	4/4	4/4	1/4	3/0	0/0	0/0	(1)	1/1	1/1	3/4	(3)	4/4	0/0	4/4	4/4	4/4	
Isopropyl alcohol	C <sub>3</sub> H <sub>8</sub> O	000067-63-0	techn. pure	F	X	1/1	1/1	1/0	1/2	1/0	1/2	1/0	1/1	2/2	1/2	1/2	4/4	1/4	1/1	1/1	1/1	1/0	1/1	3/3	0/0	(2)	(1)	(1)	
Methyl ethyl ketone (MEK)	C <sub>5</sub> H <sub>10</sub> O	000078-93-3		F	X	1/3	3/4	1/0	4/4	4/4	4/4	1/2	1/3	4/4	4/4	4/4	4/4	2/3	1/1	1/1	3/4	3/0	4/4	4/4	0/0	(1)	(1)	(1)	
Nitric acid	HNO <sub>3</sub>	007697-37-2	50 %	C+	2/4	3/4	4/4	4/4	(2)	2/4	4/4	3/4	4/4	2/3	2/3	0/0	0/3	1/1	1/1	1/1	1/1	4/4	1/0	4/4	0/0	4/4	1/2	1/2	
Nitrohydrochloric acid	HNO <sub>3</sub> + HCl	008007-56-5		C	4/4	4/4	4/4	4/4	3/3	4/4	4/4	4/4	4/4	4/4	4/4	4/4	3/4	1/1	(2)	1/1	3/0	4/4	4/4	4/4	0/0	4/4	4/4	4/4	
Phosphoric acid	H <sub>3</sub> PO <sub>4</sub>	007664-38-2	85 %	C	1/1	1/1	4/4	1/2	0/0	1/2	4/4	1/2	1/2	1/1	1/2	1/1	1/2	1/1	1/1	1/1	1/1	3/0	1/1	4/4	0/0	4/4	2/4	1/3	
Sodium hydroxide	NaHO	001310-73-2	50 %	C+	1/1	1/1	1/0	4/4	4/4	1/1	1/3	1/1	2/2	1/1	1/2	0/0	0/3	1/1	1/1	1/1	3/3	1/0	3/4	3/3	0/0	4/4	1/3	1/3	
Spirits of Turpentine	—	008006-64-2		Xn	X	2/2	3/4	1/0	4/4	1/0	3/3	1/1	4/4	4/4	2/3	4/4	3/3	1/1	1/1	1/0	1/3	4/4	1/1	3/3	0/0	1/1	1/1	1/1	
Sulfuric acid	H <sub>2</sub> SO <sub>4</sub>	007664-93-3	95 %	C+	3/4	3/4	4/4	4/4	2/2	4/4	3/4	4/4	4/4	2/4	0/0	4/4	1/1	1/1	1/1	1/1	4/4	1/1	4/4	0/0	4/4	1/3	1/3		
Tetrachloroethylene	C <sub>2</sub> Cl <sub>4</sub>	000127-18-4		Xn	4/4	4/4	4/4	4/4	3/4	4/4	1/3	4/4	4/4	4/4	4/4	4/4	3/3	1/1	1/1	1/1	1/1	4/4	2/3	4/4	0/0	(3)	0/0	0/0	
Trichloroethylene (TRI)	C <sub>2</sub> HCl <sub>3</sub>	000079-01-6	100 %	Xn	3/4	4/4	3/0	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	0/4	1/2	1/1	1/0	1/1	4/4	1/3	4/4	0/0	1/3	1/1L	1/1L	
Vinegar	C <sub>2</sub> H <sub>4</sub> O <sub>2</sub>	000064-19-7		(Xi)	1/1	1/3	4/4	1/2	1/1	1/0	1/3	1/1	1/0	1/0	1/0	3/0	1/1	1/1	1/1	1/1	1/1	1/0	3/3	3/3	0/0	1/3	1/2	1/2	
Xylene	C <sub>8</sub> H <sub>10</sub>	001330-20-7		(F), Xn	X	3/4	3/4	1/0	4/4	0/0	3/4	1/2	4/4	4/4	4/4	4/4	4/4	1/2	1/1	1/0	1/3	4/4	1/3	4/4	0/0	1/1	1/1	1/1	

Two values are given per substance, left number = value at + 20 °C, right number = value at + 50 °C.

1 = resistant, 2 = practically resistant, 3 = partially resistant, 4 = not resistant, 0 = no data available.

K = no general information available; L = danger of pitting or stress-cracking corrosion, values in parentheses are estimated values.

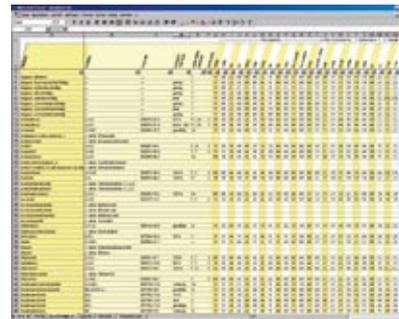
Hazard notes: C = caustic; F = inflammable; F+ = highly inflammable; O = fire-promoting; T = poisonous; T+ = very poisonous; Xn = slightly poisonous; Xi = irritant

## Important note

The tables headed "Chemical resistance of plastics" and "Properties of plastics materials" have been compiled from information from various producers of raw materials. The figures relate exclusively to laboratory tests on raw materials.

Plastics items made from these materials are often subject to influences which cannot be detected in a laboratory test (temperature, pressure, stresses in the material, chemical substances, design features, etc.). For these reasons the figures quoted can serve only as a guideline. In case of doubt we strongly recommend that a test be carried out. No legal claims can be derived from these figures and we disclaim all liability. The chemical and mechanical resistance of a product does not suffice for the assessment of its suitability for use, for example legislation on flammable liquids (explosion protection) is to be taken into particular consideration.

## Detailed table can be downloaded free of charge



- ▶ More than 1600 media
- ▶ With viscosity table
- ▶ CAS numbers
- ▶ Directly on screen as Excel table
- ▶ Simple operation
- ▶ Free of charge
- ▶ Download address: [www.buerkle.de](http://www.buerkle.de) > KnowHow

# Plastics technology | overview of chemical resistance

<b>E-CTFE</b>	Ethylene-chlorotrifluorethylene (Halar®)	<b>PA</b>	Polyamide	<b>PSU</b>	Polysulfone
<b>FEP</b>	Fluorinated ethylene-propylene (Teflon® FEP)	<b>PC</b>	Polycarbonate	<b>PTFE</b>	Polytetrafluoroethylene
<b>PETG</b>	Polyethyleneterephthalate	<b>PFA</b>	Perfluoro-alkoxy (Teflon® PFA)	<b>PVC</b>	Polyvinylchlorid
<b>FPM</b>	Fluoroelastomer (Viton®)	<b>PMP</b>	Polymethylpentene (TPX®)	<b>PVDF</b>	Polyvinylidenfluoride
<b>HDPE</b>	High-density polyethylene	<b>PP</b>	Polypropylene	<b>SAN</b>	Styrene-acrylnitrile
<b>LDPE</b>	Low-density polyethylene	<b>PS</b>	Polystyrene	<b>SI</b>	Silicone rubber

Plastics abbreviations	Temperature		steam <sup>4)</sup> 121°C	Sterilization <sup>5)</sup>			chemical formalin, ethanol	Transparency	Flexibility	Specific weight g/cm <sup>3</sup>	Water absorption %
	max. °C 1)	min °C 2)		gas ethyleneoxide	radiation 2.5 kGy						
E-CTFE	+ 150°	- 100°	yes	yes	no	yes	transparent	moderate	1.70	< 0.10	
FEP	+ 205°	- 255°	yes	yes	no	yes	transparent	very good	2.15	< 0.01	
FPM	+ 200°	- 20°					black	good	1.90		
HDPE	+ 110°	- 50°	no	yes	yes	yes	transparent	stiff	0.95	0.01	
LDPE	+ 95°	- 50°	no	yes	yes	yes	transparent	excellent	0.92	0.01	
PA	+ 90°	- 0°	no	yes	yes	yes	transparent	stiff	1.13	1.30	
PC	+ 135°	- 135°	yes	yes	yes	yes	clear	rigid	1.20	0.35	
PFA	+ 250°	- 270°	yes	yes	no	yes	transparent	excellent	2.15	0.03	
PMP	+ 175°	- 150°	yes	yes	yes	yes	glass-clear	stiff	0.83	0.01	
PP	+ 135°	0°	yes	yes	no	yes	transparent	stiff	0.90	0.02	
PS	+ 70°	- 20°	no	no	yes	yes	glass-clear	stiff	1.05	0.05	
PSU	+ 165°	- 100°	yes	yes		yes	clear	stiff	1.24	0.30	
PTFE	+ 270°	- 270°	yes	yes	no	yes	white	excellent	2.25	< 0.01	
PVC	+ 70°	- 30°	no <sup>3)</sup>	yes	no	yes	clear	stiff	1.35	0.06	
PVDF	+ 160°	- 4°	yes	yes	yes	yes	transparent	stiff	1.78	0.04	
SAN	+ 95°	- 40°	no	yes	no	yes	glass-clear	stiff	1.03	0.05	
SI	+ 180°	- 60°	yes	yes	no	yes	transparent	excellent	1.10		
PETG	+ 70°	+ 5°	no	?	?	yes	glass-clear	stiff	1.78	0.70	

<sup>1)</sup> Even higher for short periods

<sup>2)</sup> Brittle temperature

<sup>3)</sup> Except PVC hoses, which can be sterilized with steam at a temperature of 121 °C

<sup>4)</sup> Frequent steam sterilization reduces mechanical stability!

<sup>5)</sup> Clean apparatus with distilled water first (to avoid stress cracking corrosion). In the case of closed vessels, remove or slightly open lid, do not close lid tight again until the vessel has cooled down.

Substance class at 20 °C	ABS	ECTFE	HDPE	LDPE	PA	PC	PMP	PP	PS	PTFE/FEP/PFA	PVC	SAN	SI
Aldehydes	-	+	+	+	0	0	0	+	-	+	-	-	0
Alcohols aliphatic	+	+	+	+	0	+	+	+	+	+	+	+	+
Esters	-	+	0	0	+	-	0	0	-	+	-	-	0
Ethers	-	+	0	-	+	-	-	-	-	+	-	-	-
Ketones	-	0	0	0	+	-	0	0	-	+	-	-	-
Carbohydrates													
aliphatic	-	+	+	0	+	0	0	+	-	+	+	-	-
aromatic	-	+	+	0	+	-	-	0	-	+	-	-	-
halogenated	-	+	0	-	0	-	-	0	-	+	-	-	-
Acids, weak/dilute	0	+	+	+	0	0	+	+	0	+	+	0	0
Acids, strong/concentrated	-	+	+	+	-	-	+	+	0	+	+	-	-
Acids, oxidising	-	0	0	0	-	-	0	0	-	+	-	-	-
Bases	0	+	+	+	0	-	+	+	-	+	+	+	+

**+ = excellent chemical resistance**

The substance does not result in any damage to the plastic after 30 days of permanent contact. The plastic may remain resistant for years.

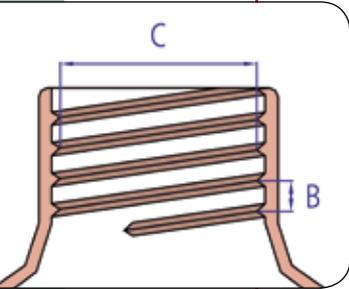
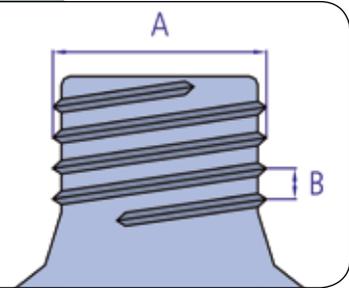
**0 = good/limited chemical resistance**

Within 7 to 30 days of permanent contact, the substance provokes minor damage which may be reversible (softening, swelling, reduction of mechanical strength, discolourations).

**- = low chemical resistance**

Not suitable for permanent contact with this substance. Damage to the plastic may occur immediately (reduction of mechanical strength, deformation, discolourations, splits, dissolution, risk of breakage).

## Suitable thread adapters | for many container threads



Plastic barrels and containers can have a wide range of thread types. Some are standardized according to DIN, BSI or US standards. Other threads are manufacturer-specific. We can supply suitable adapters for most containers so that discharge valves, pumps and other accessories can be safely attached.

Various steps are necessary in order to select the correct adapter. Proceed as follows:

### 1. First use the thread table to select the container thread.

If possible use calipers for the measurement, although most threads can be measured accurately enough with a ruler.

If your container has an outer thread you will require an adapter with an inner thread. Containers with an inner thread require adapters with an outer thread.

### 2. In the Adapter overview on page 46/47 you will find the suitable adapter.

All thread descriptions refer directly to the adapter. This means that if your container has a  $\frac{3}{4}$ " outer thread you will require an adapter with a  $\frac{3}{4}$ " inner thread. If you cannot find the necessary adapter here, or if you cannot determine the thread size, just send us a screw cap and we will send you a suitable adapter.

### Example

Your container thread is an outer thread with a diameter of 71 mm. You want to use a PP barrel pump with a barrel screw joint. Use the thread table to determine the type of thread. As it is a 71 mm thread you will require an adapter with a 71 mm inner thread. The barrel screw joint thread is 2" BSP outer. This means that you need an adapter from 71 mm inner to 2" BSP inner. In the Adapter table you will then find the corresponding article number 0600-2002.

### Threads overview

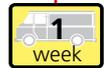
A mm	B mm	C mm	Thread description	Thread type
53	5	50,5	51 mm, DIN 51*)	sawtooth
59-60	6	55,8	61 mm, DIN 60	sawtooth
61	6	55,8	61 mm, DIN 60	sawtooth
71	6	66,5	71 mm, DIN 71	sawtooth
59	2,2	57,5	2" BSP/2" steel drum fine thread	sawtooth
64,5	5	60	63 mm, 64 mm BSI	sawtooth
33,5	3	32,7	35 mm	round/std.
69,5	5,5	65	2" coarse thread Mauser L-ring	sawtooth
56	3,5	52,5	Tri-Sure/2" coarse thread v. Leer/Tri-sure	sawtooth
63,2	4,25	57,5	US drum thread	sawtooth

\*) old and alternative thread names are printed **semibold**

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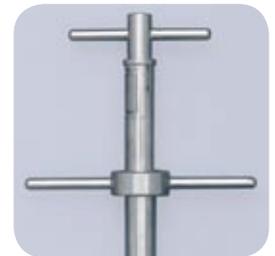
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## Where do I find what?

- ▶ Chemical resistance page 240
- ▶ Plastics technology page 241
- ▶ How to determine thread sizes page 242
- ▶ Terms and Conditions – front cover inside

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