

Guideline

Consultation and sales of Bürkle Pumps

Fill off liquids – but do it safely!

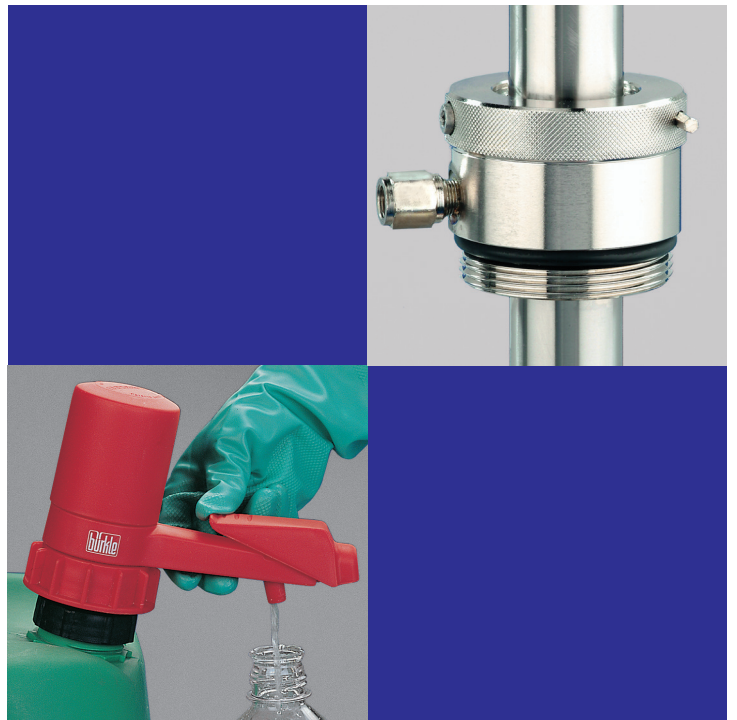
Safety is the number one priority

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.

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.



Customer advisory

Which industry branches need pumps?

User of Bürkle pumps can be found in almost every branch. Following industries are our focus customers:

- ▶ Chemical industry, e.g. Bayer, BASF
- ▶ Cleaning agent industry
- ▶ Manufacturers and distributors of chemicals

Questions that lead to the optimal pump for your customer

- ▶ Which fluid (in which concentration) shall be filled off?
- ▶ Viscosity of the fluid?
- ▶ Which size (volume) has the container that needs to get filled off and which size has the receiving container?
- ▶ Which kind of screw joint (kind of thread) respectively which kind of opening has the fluid including container?
- ▶ Which amounts will be dispensed and how often will the fluid get filled off?



The right connection for each container



Barrel screw joint made of nickel-plated brass for barrel pump stainless steel. For containers with R2" steel fine thread inside.



The gas tight barrel screw joint prevents hazardous gases from escaping from the barrel. R2" steel barrel thread, non-return valve with connection 1/8".



Barrel screw joint made of PP for secure connection in the barrel in three different thread models:

- ▶ R2", internal steel barrel thread
- ▶ Mauer 2", internal coarse thread
- ▶ Tri-Sure®, internal coarse thread



Container screw joint to fasten the barrel pump in any location on the side of the container. Also for wide-necked screw caps. The screw joint 2" is screwed on from the inside using lock nut 2".



Barrel bungs made of PVC, consisting of two parts, therefore can be used for various openings with a diameter from 40 – 70 mm.



Answers to all of your questions

Chemical resistance?
Combinations of thread adaptors?
Technical data of pumps?

Don't worry if you are at a loss – the Bürkle team is pleased to assist fast and capable in regards to all of your questions around the Bürkle product range!

Bürkle product overview

Manual pumps for acids and alkalis – selection out of the Bürkle pump range



OTAL liquid transfer pumps

The OTAL pump program has been on the market for 60 years. The pumps are popular and appreciated thanks to their easy handling in daily use. Thanks to the simple stopper system, OTAL pumps can be used for all common containers.



Pump-it® container pump

Pump-it® canister pumps are designed for quickly and cleanly emptying canisters and small barrels up to 60 l. Pump-it® is suitable for weak acids, alkalis and petrochemicals.



PP barrel pump

The good chemical resistance of PP allows acids, alkalis and aggressive detergents to be transferred.



PTFE barrel pump Ultrapure

Due to the high chemical resistance of the medium-contacting parts, even liquids which attack conventional materials such as PP or PVC can now be safely transferred (except for elemental fluorine).

Gas-tight liquid transfer



During transfer with normal pumps, it is impossible to prevent vapours escaping into the atmosphere. The gas-shuttle method avoids this.

Gas-tight barrel pump PP

The gas-tight barrel pump enables odour-free transfer.



Gas-tight stainless steel pump

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

Pumps for withdrawing flammable liquids



Solvent pump

Hand- or foot-operated solvent pump for ultrapure filling of solvents.

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.



Stainless steel barrel pump

The barrel pump can conduct electricity and therefore fulfills the requirements for handling flammable liquids in combination with the accessory anti-static set.

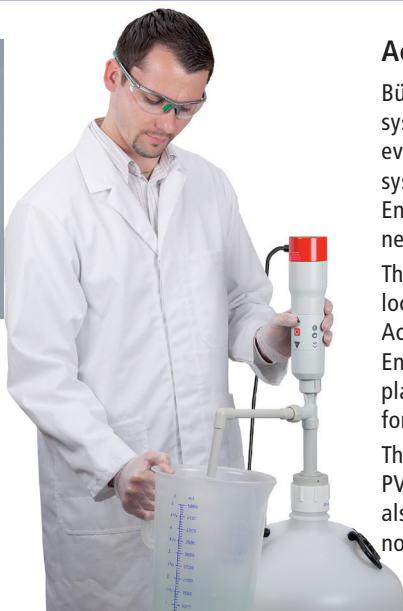


Anti-static set

When decanting flammable liquids without the machines and containers involved in the process being sufficiently earthed, electrostatic build-up can occur, which for many substances can result in fire or an explosion. Bürkle's anti-static set ensures easy and reliable earthing.

Bürkle product overview

Electric pumps



AccuOne (battery driven)/ EnergyOne (mains driven)

Bürkle barrel pumps AccuOne and EnergyOne with the unique hybrid system ensure fast, flexible and convenient filling whenever and wherever you want. The pumps are equipped with two different power supply systems: AccuOne, driven by a high-performance rechargeable battery or EnergyOne, with a power cable for direct connection to the electrical network.

The rechargeable battery or the power supply unit are fitted with a clip lock and are removable. They can be exchanged quickly and easily. Thus AccuOne can also be operated with the power supply cable unit and EnergyOne can be operated with the rechargeable battery. With a replacement rechargeable battery as an accessory, you never have to wait for charging.

The light and powerful pumps are made of high-quality materials, PP, PVDF and Hastelloy C, to ensure outstanding chemical resistance. This also makes them suitable for dispensing acids and bases. Please make note of detailed information related to chemical resistance!

The choice of the correct pump

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.

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.

Appropriate cross-selling articles



Flachmann – the compact jerrycan

The compact jerrycan Flachman is ideal as a space-saving canister with its width of 6.5 cm. Different liquids can be stored and decanted in a small space.



Bottles and canisters

Universal bottles for storing, packing, taking samples, sampling and transport of liquids.



Safety equipment

When handling corrosive or aggressive liquids the user should take appropriate precautions. Protective clothing such as gloves, goggles, aprons and face masks is essential.