

TOPSELLERS

SOLVENT PUMPS



Volatile organic solvents such as ethanol, methanol, isopropanol, formamide, ether, acetone or aromatic compounds have a powerful scent, may be hazardous to the environment and health and may cause explosive vapours. Professional equipment is therefore required when working with and handling these substances and special precautionary measures are necessary.

Container and barrel pumps that are suitable for use with solvents must meet certain conditions. The chemical resistance of materials is an important point: the solvent must not attack or damage the materials.

Stainless steels are suitable for this purpose, especially with PTFE seals.

Solvents are volatile and readily form potentially explosive gaseous mixtures. To prevent electrostatic charges from accumulating in this atmosphere, pumps must be conductive so that they can be safely grounded with an anti-static set. It should also be possible to shut off the pumps completely so that no vapours outgas after filling.

Bürkle offers a wide assortment of pumps for different containers and filling quantities that are especially suitable for filling solvents.

Solvent pump foot operated



Solvent pump foot operated for filling off high purity liquids such as solvents. All medium-contacting parts are made of stainless steel AISI 304 (1.4301) and PTFE. Due to the barrel screw joint and the stopcock, the container and the pump can be hermetically sealed.

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

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



Version	Pump capacity approx. l/min	Connector thread	Immersion depth cm	Item no.
① Discharge tube	20	2"	95	5603-1100 N4
② Discharge hose/stopcock	20	2"	95	5603-3000 N4

Solvent pump hand operated

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

The hand pump works according to the over-pressure principle. An excess pressure is built up in the tank with the pump ball, forcing the liquid out of the container.

Pouring flammable liquids

All medium-contacting parts are made of stainless steel AISI 304 (1.4301) and PTFE. The Bürkle anti-static set can be used to ground the pump for dispensing flammable liquids so that no electrostatic charge forms.

Gastight version

The pump can be completely closed off with the two ball valves so that no dangerous vapours can escape after dispensing.

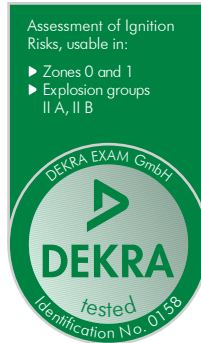
Suitable for different containers

The hand pump is suitable for containers up to 60 litres.

The solvent pump for tin-foil canisters has a connector thread for pull-out spouts.

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

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



Solvent pump hand operated

Immersion depth cm	Connector thread	Pump capacity approx. l/min	Item no.
60	2"	10	5603-1000 N4

Solvent pump hand operated, for tin-foil canisters

Immersion depth cm	Connector thread	Pump capacity approx. l/min	Item no.
60	for pull-out spout with Ø 35 mm	10	5603-2000 N4

Mini solvent pump | reliable filling of small quantities

The Mini solvent pump is a high-quality hand pump for small containers such as bottles, canisters and tanks up to about 10 litres. For reliable filling and dosing of solvents and readily flammable liquids.

Simple principle – highly effective

The hand pump works according to the excess pressure principle. In this way only the hose, pumping tube and discharge come in contact with the liquid being filled. To ensure safety, a pressure relief valve protects the solvent pump against excessive pressure build-up.

High-quality materials

The grounding cable included with delivery can easily be connected to the solvent pump with a bunch plug, thus diverting electrostatic charges so that flammable media can be filled safely.

Filling in hazardous zones

The grounding cable included with delivery can easily be connected to the solvent pump with a bunch plug, thus diverting electrostatic charges so that flammable media can be filled safely.



Flexible applications

The hand pump has a GL 45 standard connecting thread. With the appropriate thread adapters (accessories), however, it can easily be adapted to containers with thread sizes S 40, GL 38 or GL 32.

Precise removal of liquids

The self-closing discharge (with auto-stop function) of the Mini solvent pump ensures absolutely precise filling. A hose can optionally be fastened onto the discharge spout (internal Ø 6 mm).

Well balanced

The Mini solvent pump is very well balanced, which makes it possible to fill without tipping, even from very small containers.

Sturdiness for long service life

Thanks to its sturdy design and high-quality materials, the Mini solvent pump consistently ensures neat and reliable filling throughout its long service life, easily and conveniently.



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



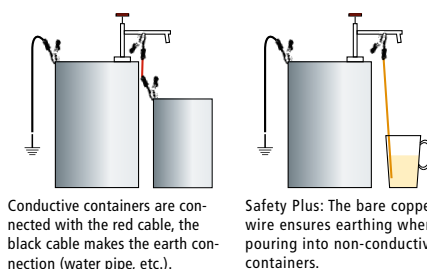
Material	Pump capacity approx. l/min	Connector thread	Item no.
Stainless steel/PTFE	1,8	GL 45	5603-4000 N4



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 reliable grounding.

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



Item no.
Anti-static set 5602-1000 N4



Withdrawal system for solvents



The withdrawal system can be used to dispense high-purity liquids quickly and without complications. An excess pressure is produced in the container with pressurised gas (compressed air or nitrogen), thereby pumping the liquid out of the tank. The advantage of operation using pressure gas is that the user can extract even large amounts without effort while having both hands free to dispense the solvent.

The barrel screw connection and shut-off valves seal off the barrel and pump hermetically. This means that no vapours containing solvents can escape after dispensing, thereby protecting users' health and the environment.

The transportable withdrawal system makes it possible to work flexibly. It consists of a barrel pump and attachable pressure regulating unit that adjusts the input pressure and offers additional protection against misuse. A pressure gauge allows for a visual check of the input pressure.

The pump can easily be fastened onto the container with a barrel screw connection. The compressed air or nitrogen connection (3-10 bar) can be provided via a mobile or stationary compressed air supply. The withdrawal system for solvents offers a secure and accurate way to dispense different solvents in laboratory and industrial applications.

⚠ Caution! When working with combustible liquids, the tank, pump and pressure regulating unit must be grounded! Use antistatic set in addition for pump!



① Withdrawal system for solvents with discharge tube			
Immersion depth cm	Purpose	Pump capacity approx. l/min	Item no.
60	for tanks up to approx. 60 l	10	5603-5001 N4
95	for barrels up to approx. 220 l	10	5603-5003 N4

② Withdrawal system for solvents with discharge hose			
Immersion depth cm	Purpose	Pump capacity approx. l/min	Item no.
95	for barrels up to approx. 220 l	10	5603-5004 N4



- ▶ Flexible connection options, operation with compressed air or inert gas (e.g. nitrogen)
- ▶ Parts in contact with medium made of stainless steel (1.4301) and PTFE
- ▶ Including transport stands, earthing cable for pressure regulating unit, connecting hose, key and adapter for compressed air supply
- ▶ Compressed air supply adapter (G 1/4"): 1x coupling connector NW 7.2 mm, 1x hose nozzle for internal Ø 6 mm, 1x hose nozzle for internal Ø 8 mm
- ▶ For UN tanks and barrels (test pressure at least 150 kpa)
- ▶ The device complies with the requirements of the Pressure Equipment Directive 2014/68/EU