

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 vapors. 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 vapors 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.

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.

Protection against hazardous vapors

Due to the barrel screw joint and the stopcock, the container and the pump can be hermetically sealed, so that no dangerous vapors can escape after dispensing. This protects both health and the environment.

Sturdy and practical design

The solid, durable industrial version of the solvent pump ensures a long service life.

The pump works according to the overpressure principle. An excess pressure is built up in the tank with the foot actuator, forcing the liquid out of the container. Easy foot operation of the pump with foot actuator leaves both hands free for dispensing.

- ▶ Immersion tube can be steplessly adjusted to the barrel depth
- ▶ For barrels up to 220 litres (58.12 gal.)
- ▶ 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!



Solvent pump foot operated - discharge hose/stopcock

Immersion depth cm (in.)	Connector thread	Pump capacity approx. l/min (gal./min.)	Item no.
95 (37.4)	2"	20 (5.28)	5603-3000 N4

Solvent pump foot operated - discharge tube

Immersion depth cm (in.)	Connector thread	Pump capacity approx. l/min (gal./min.)	Item no.
95 (37.4)	2"	20 (5.28)	5603-1100 N4

Solvent pump hand operated

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

The hand pump works according to the overpressure 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 vapors can escape after dispensing.

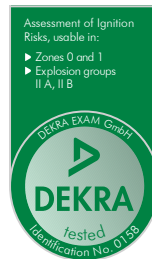
Suitable for different containers

The hand pump is suitable for containers up to 60 litres (15.85 gal.).

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 (in.)	Connector thread	Pump capacity approx. l/min (gal./min.)	Item no.
60 (23.62)	2"	10 (2.64)	5603-1000 N4

Solvent pump hand operated, for tin-foil canisters

Immersion depth cm (in.)	Connector thread	Pump capacity approx. l/min (gal./min.)	Item no.
60 (23.62)	for pull-out spout Ø 35 mm (1.38 in.)	10 (2.64)	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 (2.64 gal.). 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. An excess pressure is built up in the container with the pump ball, forcing the liquid outward. 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, for example due to sunshine.

High-quality materials

All parts of this hand pump in contact with medium are manufactured from high-quality and inert materials PTFE and stainless steel (1.4301, 1.4404), which feature excellent chemical resistance. The Mini solvent pump is therefore especially well suited for use with high-purity liquids and readily flammable media such as acetone, isopropanol, ethanol and methanol, etc.



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 solvent pump allows for filling from a wide range of container sizes. The flexible PTFE hose that conveys liquid out of the container can be shortened to any length. This ensures ideal residual draining, even from bottles and canisters with a vaulted bottom.

Precise removal of liquids

The self-closing discharge (with auto-stop function) of the Mini solvent pump ensures absolutely precise filling with no dripping at all. Dosing is even easy in very small containers such as test tubes, which present no problems. A hose can optionally be fastened onto the discharge spout (internal Ø 6 mm (0.24 in.)), thus making it possible to fill the container from a greater distance.



- ▶ Ideal for 1 – 5 l (0.26 – 1.32 gal.) containers
- ▶ Connecting thread GL 45
- ▶ Parts in contact with medium made of PTFE and stainless steel (1.4301, 1.4404)
- ▶ PTFE hose (6 x 8 mm (0.24 x 0.32 in.)) 0.4 m (15.75 in.)
- ▶ Including grounding cable 2 m (78.74 in.)
- ▶ Adapter available as accessory for S 40, GL 38 and GL 32



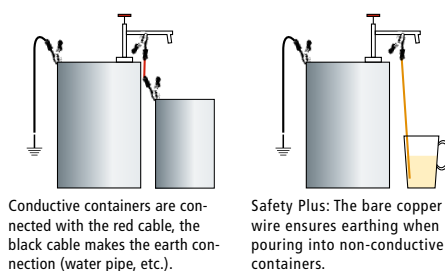
Material	Pump capacity approx. l/min (gal./min.)	Connector thread	Item no.
Stainless steel/PTFE	1,8 (0.48)	GL 45	5603-4000 N4

Anti-static set | prevents electrostatic build-up

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

Burkle's Anti-static set ensures easy and reliable grounding.

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



	Item no.
Anti-static set	5602-1000 N4

