

1.78178.0001

Withdrawal system for solvents in S40-threaded bottles, manual pressure build-up

Handling and safety notices

Components

- 1 Withdrawal system with 1 flexible, conductible tube (40 cm)
- 1 Antistatic-cable
- 1 Adapter S40 to GL45 (PTFE)

Additional and spare parts

- 1.08801.0001 Bottle key
- 1.40140.0001 Safety carrier for bottles of up to 4 L
- 9.20078.0001 Safety carrier for bottles of up to 2.5 L
- 1.78179.0001 Tubings, conductible, for withdrawal system 1.78178.0001, length: 40 cm (set of 5)

Safety notices

General warnings and safety instructions must be observed.

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The sampling system must be checked for proper operation before each use.

If flammable liquids (e.g. solvents) are to be used properly grounding according to valid safety regulations has to be ensured to avoid **explosion and fire risks**. Appropriate measures must be taken to discharge static electricity. For this purpose, the included antistatic device can be used.

The grounding of the bottle as well as of the withdrawal system must be installed **before opening** the bottle. Grounding clamps must have metallic contact with the withdrawal system and a safe ground connection.

The discharge of electrostatic charges of the user must be ensured. Therefore, the user must always wear conductive personal protective equipment, especially shoes and gloves. The floor has to be conductive as well.

Sampling vessels made of insulating material with a volume greater than 1 liter should not be used.

Before using the withdrawal system, the user must ensure that there are no additional ignition hazards caused by process-specific parameters, such as increased ignitability of the substances due to changed environmental conditions or when withdrawing in combination with highly charge-generating processes.

The choice of the withdrawal system for the different products is the responsibility of the customer. Merck KGaA, Darmstadt, Germany only gives recommendations. The system is not suitable for corrosive acids.

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The withdrawal system at issue is designed for dispensing solvents from bottles with S40 thread of up to 5 l with manual pressure build-up by a pump ball.

Before first usage the enclosed tubing has to be shortened to the appropriate inner height of the solvent bottle. This tube has to be connected to the tube connector on the bottom side of the system.

Open the bottle with a bottle key (e.g. 1.08801.0001).

For the first usage or after solvent exchanges the system has to be pre-rinsed (dip tube inside and outside) with a sufficient amount of the solvent to be used. The first milliliters should be discarded to avoid a transfer of possible production-related impurities into the solvent. After long shutdown times a flushing of the whole system is recommended.

Install the withdrawal system with the tubing ahead into the bottle and tighten the system on the bottle thread by hand.

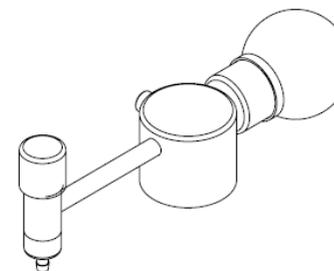
For withdrawal place a bottle or other vessel right under the outlet. The outlet tube should reach approx. 1 cm into the neck of the vessel.

If this is not possible please use a second tube (Tube spare parts 1.78179.0001) to extend the outlet.

An overpressure is built up by pumping the pump ball manually. Solvent will be pushed through the tube to the outlet. To withdraw the solvent to the receptacle please push the valve on the outlet downwards. Here it is important to ensure that the receptacle is positioned properly to avoid any sputtering of the solvent in the receptacle.

IMPORTANT: Ensure that the dip tube is not touched during the container-exchange procedure and that the withdrawal system is installed directly into the new container without putting it down on another surface.

The empty container must be closed immediately after removal of the withdrawal system.



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Handling notices - continued -



Open bottle e.g. with bottle key 1.08801.0001.



Install included adapter.



Cut hose to the required length.



Install hose.



Attach the antistatic cable to a safe ground connection and connect it to the withdrawal system.



Generate pressure by squeezing the pump ball.



Place a receptacle under the outlet and withdraw the solvent by pushing the valve downwards. The valve closes automatically when stop pushing it.

Please keep this information for future reference.

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DISCLAIMER

Our withdrawal systems and safety accessories have been developed and optimized for the use with containers and chemicals from Merck KGaA, Darmstadt, Germany. Merck KGaA, Darmstadt, Germany therefore disclaims any warranty or liability for the operability of its withdrawal systems and safety accessories in connection with containers or chemicals from other manufacturers.

Merck KGaA, Darmstadt, Germany reserves the right to refrain from the delivery of withdrawal systems and safety accessories if the respective order does not indicate that each withdrawal system and safety accessory will be used in combination with appropriate chemicals and containers from Merck KGaA, Darmstadt, Germany.

We inform and advise our customers to the best of our knowledge and ability but without any engagement or liability on our part. Our customers must obey all existing laws and regulations. This also applies in respect of any protected rights of third parties. Our information and advice does not eliminate the need for our customers to check, on their own responsibility, that our products are suitable and safe for the purpose envisaged.

Version September 2020

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