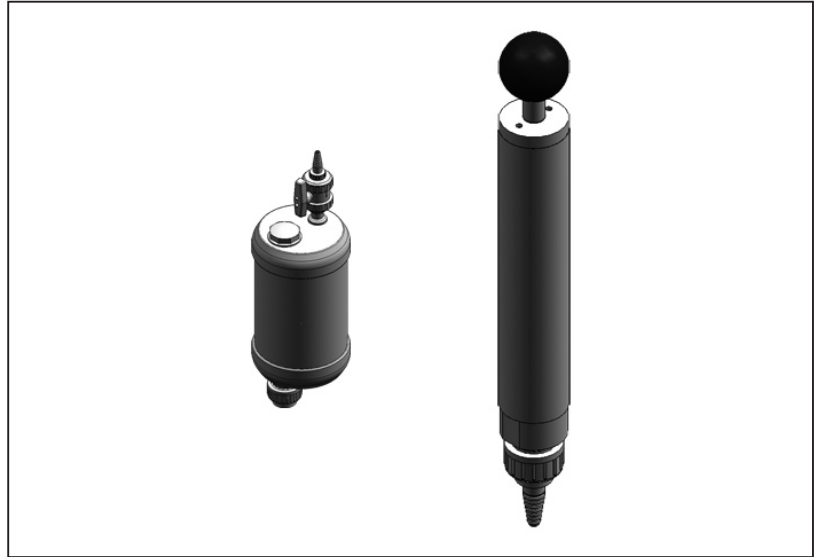


ElbZa` ~ HSUgg_ Bg_ b



EN
02

Operation & Maintenance Instructions

Read these operation and maintenance instructions before start up!
To be held for future reference.

General

The new law on water resources management and concomitant regulations frequently make it impossible to tap a tank for pollutant liquids from below and to supply the metering pump with "inflow". Moreover, since the suction lift of a metering pump is also limited, it is useful to install the suction line "overboard" and thus cause the liquid to siphon. To ensure that this siphoning process actually takes place and a positive pressure builds up at the pump suction valve, it is advisable to install an accumulator for gas bubbles (siphon) at the highest point of the suction line with large nominal width. All gas bubbles in the suction line will then accumulate here, at the highest point, as long as there is liquid in this siphon and the pump operates with inflow. The liquid level in the siphon can be controlled manually or automatically.

The maximum inflow pressure of diaphragm pumps in particular must be noted and precautions taken to prevent leakages from the storage tank if the diaphragm ruptures due to wear (shut off or vent siphon line above the tank).

Principle of operation

The upper end of the immersion pipe in the chemical tank is fitted with a flange which is connected to the suction line leading downwards outside the storage tank. The siphon is connected to the highest point of the suction line via a T-piece.

The suction line is evacuated and simultaneously filled with liquid. In simple cases, this is achieved with the aid of a hand-operated vacuum pump connected to the siphon via a suction tubing. It can also be achieved with the aid of an ejector, a chemically resistant vacuum pump or by external filling with water. If the suction line does not include a foot valve, an additional ball valve must be fitted below the siphon and a venting valve at the top in order to fill with water.

Siphon

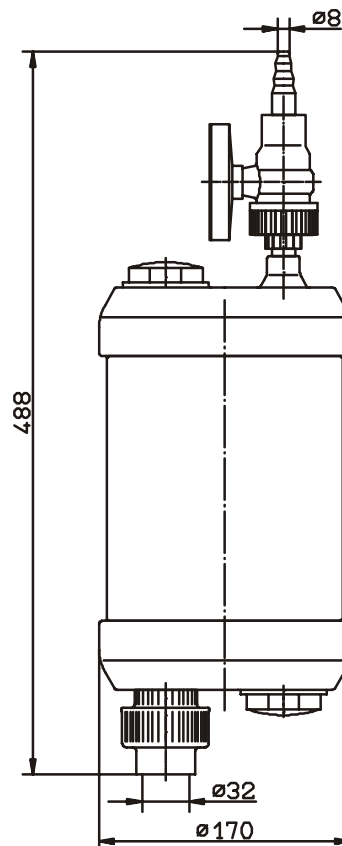
The housing is made of transparent PVC. The screw connection is located at the bottom of the siphon housing and the venting valve with tubing connection at the top. The vacuum pump is connected here. It is protected against splashing medium by a device inserted in the tank infeed.

Automatic level control in the siphon with ejector, solenoid valve, non-return valve in the vacuum line, 3-rod electrode and level relay on request.

Part No. 13333386

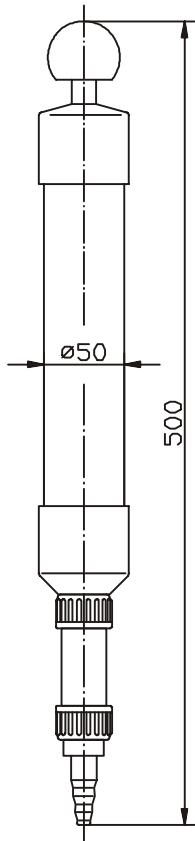


Siphon



Hand-operated vacuum pump

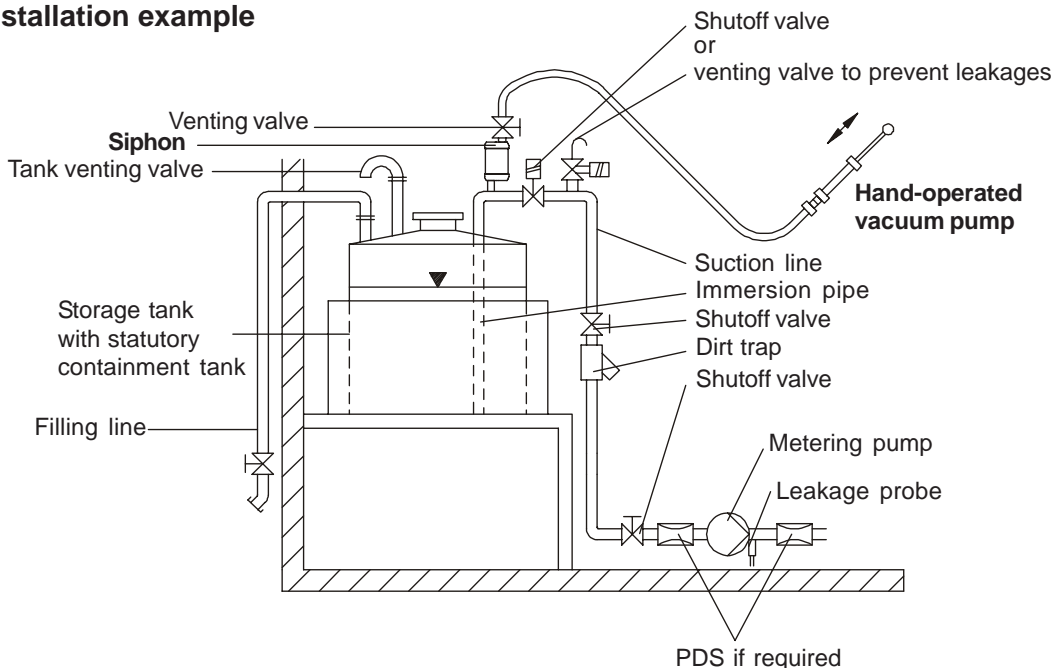
The PVC pump is resistant to chemical vapours. The hose nozzle for fitting the suction tubing is located at the tip of the pump. A non-return valve prevents a backflow of entrained air. The tip of the pump must point downwards during evacuation. Part No. 13333387



Installation example

1. Connect the siphon and hand-operated vacuum pump to the suction tubing.
2. Close the shutoff valve at the end of the suction line and open the venting valve on the siphon.
3. Draw air from the siphon and suction line with the aid of the vacuum pump. The medium to be metered rises in the immersion pipe and also fills the suction line.
4. Close the venting valve when the liquid has reached the required level in the siphon.
5. Open the shutoff valve in the suction line. It is now operational. Medium flows to the pump automatically.
6. Simply open the venting valve in order to stop the siphoning process. The liquid in the siphon and immersion pipe drops back into the tank as air streams in through the venting valve.
7. Siphoning can be resumed as long as the vacuum pump is able to build up the required vacuum. Tank height, vacuum pump and density of the liquid must be carefully matched ($D p = d \times g \times D h$).
8. The suction line must be vented (venting valve) if a leakage is indicated or shut off above the tank, within the range of the containment tank (solenoid valve).

Installation example



Warranty



Please copy and send with the device.

If the device breaks down within the period of warranty,
please return it in a cleaned condition with the complete warranty application, filled out.

Sender

Company:..... Phone:..... Date:.....

Address:.....

Contact person:

Manufacturer order-no.: Delivery date:.....

Device type:..... Serial no.:.....

Nominal capacity/nominal pressure:

Description of fault:.....

.....

.....

Type of fault:

1. Mechanical fault

- premature wear
- wear parts
- breakage/other damage
- damage in transit

2. Electrical fault

- loose connections such as plug connector or cable
- operating elements (e.g.. switches/buttons)
- electronics - corrosion

3. Leaks

- connections
- dosing head

4. No or inadequate function

- defective diaphragm
- other

Service conditions of the device

Point of use / system designation:.....

Accessories used (Suction line, etc.):.....

.....

.....

Commissioning (date):.....

Duty peroid (approx. operating hours):.....

Please describe the specifics of the installation and provide a simple diagram with details of the material, diameter, length and levels.



Lutz-Jesco GmbH

Am Bostelberge 19
30900 Wedemark
Germany

Phone: +49 5130 5802-0
Fax: +49 5130 580268
info@lutz-jesco.com
www.lutz-jesco.com/de

24h-Hotline: +49 5130 580 280

Austria

Lutz-Jesco GmbH

Aredstraße 7/2
2544 Leobersdorf
Austria

Phone: +43 2256 62180
Fax: +43 2256 6218062
info@lutz-jesco.at
www.lutz-jesco.at

Great Britain

Lutz-Jesco (GB) Ltd.

Gateway Estate
West Midlands Freeport
Birmingham B26 3QD
Great Britain

Phone: +44 121 782 2662
Fax: +44 121 782 2680
info@lutz-jesco.co.uk
www.lutz-jesco.co.uk

Netherlands

Lutz-Jesco Nederland B.V.

Nijverheidstraat 14 C
2984 AH Ridderkerk
Netherlands

Phone: +31 180 499460
Fax: +31 180 497516
info@lutz-jesco.nl
www.lutz-jesco.nl

Hungary

Lutz-Jesco Üzletág

Vasvári P. u. 9.
9024 Győr
Hungary

Phone: +36 96 523046
Fax: +36 96 523047
info@lutz-jesco.hu
www.lutz-jesco.hu

USA

Lutz-JESCO America Corp.

55 Bermar Park
Rochester, NY 14624
USA

Phone: +1 585 426-0990
Fax: +1 585 426-4025
mail@jescoamerica.com
www.jescoamerica.com

East Asia

Lutz-Jesco
East Asia Sdn Bhd
6 Jalan Saudagar U1/16
Hicom Glenmarie Industrial Park
40150 Shah Alam /Selangor
Malaysia

Phone: +603 5569 2322
Fax: +603 5569 1322
info@lutz-jescoasia.com
www.lutz-jescoasia.com

Middle East

Lutz-Jesco Middle East FZE

P.O. Box 9614
SAIF-Free Zone Center
Sharjah
UAE

Phone: +971 6 5572205
Fax: +971 6 5572230
info@jescome.com
www.jescome.com



Best.-Nr. BB-13304-0X-V02
Technische Änderungen
und Irrtümer vorbehalten
© Lutz-Jesco GmbH 01.2010
Printed in Germany