



// NETWORK ADAPTER NetCon

// VACUUM CHANGE OVER
CVS

// USING IN
ROUGH CONDITIONS

// NEW INTERNET
APPEARANCE
OF LUTZ-JESCO

// NEW S&P DEPARTMENT

LUTZ-JESCO PRESENTS THE NEW MAGDOS LB

MAGDOS LB – THE NEW DOSING PUMP WITH GREAT SAVINGS POTENTIAL

At this year's ACHEMA, 11.-15.05.2009 in Frankfurt on Main, Lutz-Jesco presents the new MAGDOS LB solenoid-driven diaphragm dosing pumps to the market for the first time.

Solenoid-driven diaphragm dosing pumps play an important role in the reliable and precise dosing of liquids in the process cycles. They are used in applications with low pressure and small

dosing quantities.

The MAGDOS LB is an inexpensive alternative for simple and continuous dosing. It is especially suitable for water treatment and process industry. The new MAGDOS LB distinguishes itself not only thanks to its elegant design, but also the drive and the dosing range are completely newly developed and thereby make it possi-



ble to work in a clearly larger and more economical area of application.

The MAGDOS LB is available in seven model sizes, the dosing capacities reach up to 15 l/h at up to 16 bar. Double ball valves ensure for a precise dosing. It is possible to adjust the dosing capacity from 0...100 % directly via the stroke frequency of the dosing pump. You thereby dose in no time at all.

Depending on the application, different materials can be used in the dosing area and likewise for the connections in the pressure and suction side. When deciding upon the materials, the MAGDOS LB can be used in almost all process applications. The MAGDOS LB can be used in three different positions without additional devices, it can stand either directed to the left or

right, or be mounted on the wall. As a Plug & Play dosing pump with a multi-voltage power supply unit it can be used immediately and without restrictions all over the world.

Further "highlights" of the pump is the easy handling of the power control system, integrated dosing head ventilation and a newly designed stroke magnet. For the first time there is a new calibration function so that the user can adjust the output. There is nothing standing in the way of a quick installation thanks to a co-ordinated accessory set with hose, injection point and suction line incl. foot valve from our extensive range of accessories. //

THE IDEAL CONNECTION

NETWORK ADAPTER NetCon FOR AUTOMATION AND RATIONALISATION

Ethernet and the TCP/IP protocol have been successfully established as communication media in automation processes. The technology is applied on all levels for the networking of control units, drives and PCs. In addition to a technically mature and standardised technology, the media offer a great potential for rationalisation.

Ethernet networks are mainly used in automation - no matter if in the automation of manufacturing, processes or buildings.

The network adapter NetCon is the central link between the connected actuators and the Ethernet network. The functions of the connected control units and sensors are thus transferred to a Master via the NetCon and the network.

The multi-channel controller TOPAX DX Net meets all necessary requirements on a Master and has an Ethernet network interface module through which all controller outputs can be controlled.

Each network device (several TOPAX DX controllers and NetCon adapters with the actuators connected to them) is connected to a router through a star network. The router transfers the data packets via twisted-pair cables to the respective network device. In smaller systems, the TOPAX DX controller can also be directly connected to the NetCon.

For configuration and navigation inside the menus, NetCon has a clearly arranged display, four function keys and five navigation keys. Network and control configurations at the NetCon are possible without further auxiliary equipment. //



VACUUM CHANGE OVER CVS

CONTINUOUS GAS SUPPLY

Dangerous gases enter the line system with negative pressure by default. At least two gas containers are needed for a

continuous gas supply. Once the first gas container is empty the CVS vacuum change over automatically switches to the second

gas container. It facilitates an uninterrupted supply.

Vacuum change over switches are used

in swimming pools, water works, for water purification processes and in the most diverse applications.

The CVS can be used for chlorine gas, hydrogen chloride, carbon dioxide or sul-



phur dioxide. It uses the negative pressure already present in the line system and works without auxiliary power. The CVS switches between two gas supplies without intervention from the personnel and with the utmost reliability. If the supply from the first gas container fails, the negative pressure increases and CVS switches over to the second gas container.

The CVS is also designed to operate through collecting pipes with several gas containers. Different connections for the line system are available as optional.

Symmetrical design

The CVS is used line systems supplied

with negative pressure. Both inlets that stem from the gas container are separated from each other by mobile diaphragms. The pressure ratio between the two inlets changes abruptly when the first gas container is completely emptied. If the pressure ratio at the diaphragms is outweighed in favour of the second, still full gas container, then the CVS switches over by moving the diaphragms. Magnetic surfaces keep the diaphragms in position. A lever action holds the diaphragm in position. The switch-point setting can be easily adapted to the system. //

USING DOSING TECHNOLOGY IN ROUGH CONDITIONS

LUTZ-JESCO PUMP BRACKETS FIND A REMEDY

Dosing pumps are mostly installed on a dosing tank or with alternating containers on a wall bracket. If it is suspected that the stations will be affected by the weather or be subjected to moist and/or dry contamination, then the pumps should be protected with a cover. Lutz-Jesco offers prefabricated dosing stations for one or more dosing pumps especially for this problem. These dosing stations are also available with a plexiglass cover to protect against the spray and contamination, this is optional.



However, often the costs for this unusual protection are spared. It can be that already at the ordering stage the case of application has not been correctly assessed, as is more often the case in practice, that unsuitable temporary solutions are used for the steady state. The dosing pump's true qualities show up under these circumstances. The dosing pumps "survive" in these hard conditions of use but only to serve a purpose, and most are no longer recognisable as pumps.

The following examples show how pumps already look after a short period of time without the use of pump brackets.

Image 1 shows a dosing station in a brickyard in the sector of mass processing. With the MAGDOS LT the smallest amounts of lubricant additives are mixed in a water flow. This mixture keeps the cutter, which cuts the extruded raw material into individual bricks, moistened.

In image 2 there is a MAGDOS in a plastics recycling plant. Old plastics are collected from yellow bags and collection stations and shredded in enormous halls. The shredded plastic parts then go through the water phase and are separated according to their specific density into the different kinds of plastics. At this stage anti-foaming agents must be added in individual areas.

In both cases a lot of ambient moisture and humidity is created in the halls, mixed with the dirt that is constantly being swirled around by the fork lifts truck driving around and the blowers of other large machines.

Glossing over does not help here, that is the harsh reality – nevertheless with the pump brackets from Lutz-Jesco you can protect your dosing pumps! //

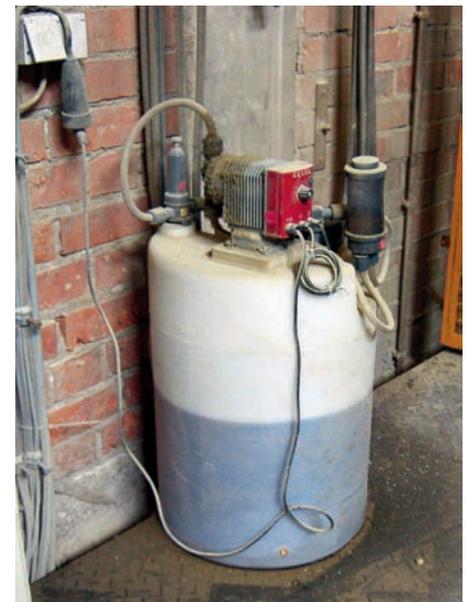


Image 1: Dosing station in a brickyard



Image 2: Dosing pump in a plastics recycling plant

NEW INTERNET APPEARANCE OF LUTZ-JESCO GERMANY

THE RELAUNCH WITH A SERVICE AREA PROVIDES CUSTOMERS WITH A SIGNIFICANT ADDED VALUE

The new web site of Lutz-Jesco starts just in time for the AICHEMA 2009 in Frankfurt: With its simple menu navigation, extended Service area and substantially increased product information, the new web-site creates a new platform for information exchange with our customers and distribution partners.

There are about 1,000 web pages that contain information, help and applications related to our products, as well as details on contact persons at our head office and/

or at our worldwide partner companies. Online calculators have been included for converting units and for calculating metering processes, and there is a secure area for distribution partners.

The new web portal was developed using Open Source Content Management System TYPO3 in collaboration with Vision Connect GmbH in Hanover. //



S&P LEADING THE WAY IN PROCESS TECHNOLOGY

A NEW SYSTEM AND PROCESS TECHNOLOGY DEPARTMENT IS SET UP AT LUTZ-JESCO



At the beginning of this year a new „System and Process technology“ department was created at Lutz-Jesco. Lutz-Jesco dosing and mixing units serve in the automation of processes and were specially designed and built to customer requirements.

The “know how” from several generations of component development was brought together for this purpose. The business activities range from the develop-

ment via the delivery of unit components up to the start-up of complex dosing and mixing units with individual unit control systems, process visualisation, operating data recording as well as interface with the process control system.

The delivery inclusive of the process control comes from one source and thereby guarantees the customer the optimal safety and functionality of the plants. //

LUTZ-JESCO IN THE LAND OF THE PYRAMIDS

PRESENTATION OF THE EGYPTIAN AGENCY



El-Amara, Lutz-Jesco's Egyptian agency, was established in 1986 as one of the leading Egyptian companies in the field of dosing technology. The company's head office is in Cairo.

The company consists of 30 employees. Within the last few years more than 200 disinfection systems for water and waste water

plants were designed, installed and put into operation by eight technicians, led by 3 engineers who have many years of experience in the sector of water and waste water plants.

Many years of collaboration between the two companies of El-Amara and Lutz-Jesco not only in water treatment for the local market has made them into a strong team. //

CONVENTION AND EXHIBITION DATES

+ **eccos pro Anwendertreffen, 07.05. – 08.05.09, Bad Kissingen**

+ **ACHEMA 2009, 11.05. – 15.05.09, Frankfurt/Main**

+ **DVGW Jubiläumskongress, 22.09. – 23.09.09, Leipzig**

+ **WEFTEC 2009, 12.10. – 14.10.09, Orlando/Florida**

+ **Aquanale 2009, 28.10. – 31.10.09, Cologne**



EDITOR: Lutz-Jesco GmbH / P.O. Box 100164 / 30891 Wedemark / Germany

www.lutz-jesco.de / 24h-Hotline: +49 5130 5802 80

CONTACT PARTNER: Kathleen Klettke /

Phone: +49 5130 5802 -135 /

Fax: +49 5130 580268 /

E-mail: kathleen.klettke@lutz-jesco.com

EDITORIAL STAFF: Günter Bergsteiner, Nils Lottmann