

Dosing units

For years, Suurmond BV has designed and constructed tailor-made dosing units for various industries. Please find below some examples.



◀ PRESERVATIVES

For preservation of slide bearings. In order to prevent the unit from prematurely drying up, the unit has been executed with a cooler. To prevent the preservatives from being warmed up by the pump energy, it is necessary to cool them. Also a filter is used to preclude pollution of the nozzle.

The unit is executed with a drip pan and a pressure control unit that has been mounted in the dosage unit. Capacity 1,5 l/min and a temperature of -5°C and 15°C .

▶ PASTE

For dosing highly viscous paste (300,000 mPas). Equipped with a coriolis flow meter with an accuracy of $< 2\%$.

This unit is executed with a stainless steel MAAG gear pump. A control panel for diverse safety tasks and a PLC unit are mounted on the skid.

Capacity 3 l/min. Maximum pressure 40 bar. This unit has been turn-key delivered.



◀ GREASE

For filling a homogenizer. Various types of grease can be processed. The capacity is controlled through a flow meter. The pump is controlled in order to stabilize the requested capacity. The feeding vessel is fabricated in a transparent synthetic and equipped with a cover plate that can be operated manually.

Capacity of 0.5 – 1.5 l/min and a pressure of 12 bar. The unit is equipped with a PLC controller and has been turn-key delivered. This unit has been determined and executed in cooperation with the customer.





◀ OIL CIRCULATION

For greasing the bearings of gear boxes at a refinery.

Capacity 4 l/min at a pressure of 6 bar. Temperature max. 80 °C.

Material: steel and cast iron.

Execution with a double switchable filter and a pressure relieve valve. An inlet for a pressure transmitter is also present.

▶ LMDI

Gear pump with coriolis flow meter, mounted in a stainless steel skid. The unit is equipped with pressure switch and connection box for the electrical components.

Accuracy < 1%.

0.2 – 0.6 l/min at a delta P of 4 bar and with a viscosity of 40 - 60 mPas. With two three-way valves it is possible to switch from production (LMDI) into purging (solvent) in order to clean the system. The solvent is collected in a small vessel, which is placed on the scale in the unit. The scale value will prevent the solvent vessel from being over filled.



PBA

Like the LMDI unit, this dosing unit is based on a gear pump and a coriolis flow meter, mounted in a stainless steel skid. This unit however, has been equipped with a heat exchanger in order to increase the temperature of the PBA before being injected into the end product.

Since PBA is to be processed at a temperature of minimum 90 °C, the unit is completely traced and insulated at customer's site. This unit has been designed for a capacity range of 1-5 l/min with a delta P of 7 bar and a viscosity of 120-700 mPas.

The unit has also been executed with a purging possibility. Unfortunately we are not in the possession of an adequate picture of this unit.



◀ OIL CIRCULATION

For greasing the slide bearings of a dryer at a chemical plant. Tubing and components are executed in stainless steel. The unit is equipped with two 3 kW coolers and a double switchable stainless steel filter. Furthermore, this unit contains a stainless steel storage tank and has been constructed in a stainless steel skid. Capacity: 2 x 6 l/min at 3 bar pressure.

▶ TEGPA

This unit has been equipped with a magnetically driven GATHER gear pump. This pump is applicable for dosing very small quantities (0.008 – 0.013 l/min). The viscosity of the product is around 5 mPas and is dosed with a differential pressure of 4 bar. The unit is equipped with a vessel for solvents in order to be able to purge the unit after running a dosing badge.



More information and the latest news is available at our website.

For any supplementary information or questions you are free to contact us.

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