Paints, Varnishes, Solvents & Co.

More than just pumps

No medium stops at the FLUX pumps!

Here is an excerpt of the typical media used in the paints and varnishes sector for which we offer a wide range of solutions.

- Acetone
- Binding agents
- Bitumen coatings
- Dispersion plaster
- Various paints
- Various varnishes
- Printing inks
- Ethanol
- Crack detection paints
- Polyester-based paints
- Solvents
- Solvent-based varnishes
- MEK
- Methylene chloride
- Toluene
- Water-based varnishes

Typical problems faced by our customers

Pumping finger paints is actually very easy

The problem

Finger paints are quite viscous to pasty and sometimes thixotropic. These media do not freely flow into a pump. What's more, a wide variety of containers in different sizes are available.

The wish

The finger paints should be pumped from various containers, such as buckets, lidded pails, drums or IBCs, into a processing plant via an existing pipe system or through hoses.

The solution from the FLUX experts:

Our self-priming air-operated diaphragm pumps with compressed air motor can also draw in and pump viscous media. It does not matter which container the medium is being drawn in from. The medium is pumped into the intended container, or processing plant in this case, via a pipe and/or hose system.

The viscosity of the medium strongly increases the counter-pressure in a pipe / hose system with small diameters.

For the cost-effective pumping of finger paints, it is absolutely necessary to select a minimum pipe diameter of 1" and design the pump accordingly.
The pumping pressure is almost as high as the air pressure created at the motor. Up to 8 bars are possible.

FDM 25 air-operated diaphragm pump with stainless steel balls in the injection moulded version - optionally with a pulsation damper and accessories designed for the application

The FDM 25 from FLUX – versatile, gentle and safe!

- Extremely gentle pumping of paints thanks to minimal shear forces
- Pulsations or an uneven medium flow can be balanced out with a pulsation damper
- The pump can be switched on and off by opening and closing the compressed air supply
- Alternatively, with a valve that closes the pipe/ hose system at the pump end. The air-operated diaphragm pump then automatically stops. This means that the flow rate can be stopped and restarted at the pipe or hose end by closing and opening the valve. Operating personnel are therefore able to work a certain distance away from the pump.

A case for professionals:

Dispersion plaster – viscous & abrasive

The problem

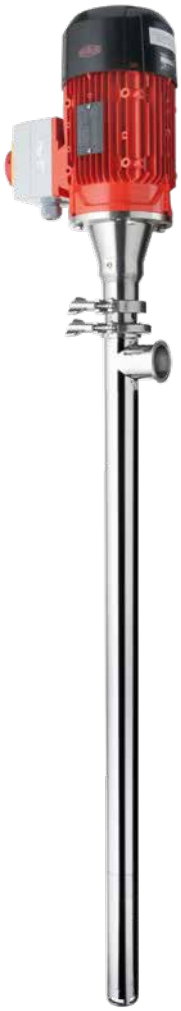
Filling containers with dispersion plaster, which is a very viscous medium.

The wish

Viscous dispersion plaster should be pumped from a production vessel into 10 litre buckets. The metering is done using the customer's floor scale.

The solution from the FLUX experts:

An VISCOPOWER F 580 eccentric worm-drive pump is the perfect solution for high-viscosity media.
The eccentric worm-drive pump pumps the medium via a PVC hose into the bucket placed on a floor scale. When the floor scale shows the correct value, the F 580 is switched off manually.



F 580 S with three-phase motor and accessories designed for the application (Accessories not shown)

The F 580 from FLUX – the first choice, particularly for abrasive media!

- Pumps the medium in a relatively laminar way without turbulence
- Long run times and a long service life
- Comparatively quiet operation

Sometimes too much, sometimes too little – the art of accurate filling

The problem

Filling solvents is too inaccurate

Before using our drum pumps, the IBC was emptied via the drain. This involved manually placing the canisters under the valve, which was then opened. This method frequently led to over- or underfilling the canisters.

The wish

Canisters should be filled with various solvents from IBCs with predefined fill quantities.

The solution from the FLUX experts:

A semi-automatic filling system specially designed for the application. It consists of drum pump, motor, flowmeter, FLUXTRONIC® evaluation electronics, and switched-mode amplifier.

F 430 S Ex drum pump with F 460-1 Ex commutator motor and DN 21 universal hose plus accessories designed for the application.
The FLUX F 430 S Ex drum pumps with mechanical seal and appropriate Ex certification are perfect for low-viscosity, particularly aggressive and highly flammable media.

Semi-automatic filling from FLUX – convenient and accurate!

- Automatically fill a predefined quantity at the push of the button thanks to the FLUXTRONIC® external evaluation electronics
- The drum pump switches itself off after the filling process. Filling can then be started anew.
- Over- and underfilling is out of the question

FMC 100 flowmeter with FSV 121-1 switched-mode amplifier