



We deliver values.



Filling units –  
manually and  
semi-automatic

## These systems offer you everything you need for fast and safe emptying of drums and containers

A FLUX filling system consists of a special combination of barrel pump, custom-designed pump motor, hose and return valve specially modified for the application.

The dosing via the return valve can alternatively be done manually with a trigger gun or semi-automatically with our FLUX filling units.

### FLUX filling systems consisting of: Pump, motor, hose, return valve optionally

#### Manual filling

The fast and safe filling of different fluids such as acids and alkalis, petroleum products or even flammable liquids is possible without any difficulties (also for the explosion proof area).

#### Trigger gun

#### Semi-automatic filling with FLUX liquid meter and amplifier

**Wired filling unit (FAE) with start-stop-button (also for the explosion proof area with external amplifier)** for the controlled filling with flowmetering of flammable liquids like acetone, butyl alcohol, ethyl alcohol, methyl alcohol, gasoline, toluene, xylene, etc.

**Wireless filling unit (FAE) with remote control (FRC)** for the controlled filling with flowmetering of acids and alkalis and non flammable liquids.



# Manual filling

## Manual assembly

These special designed pump kits suit best for manual filling. The fast and safe filling of different fluids such as acids and alkalis, petroleum products or even flammable liquids is possible without any difficulties (also for the explosion proof area).

FLUX liquid meters to indicate the flow rate are alternatively available.

You will find further details and examples for configurations in our brochure "Pump Kits".



## Special features and benefits

### Little effort

on activating due to the ergonomic lever

### Safe handling

Novel swivel joint with rotary balls – guarantees absolute tightness even under pressure.

Different outlet nozzles for different applications available

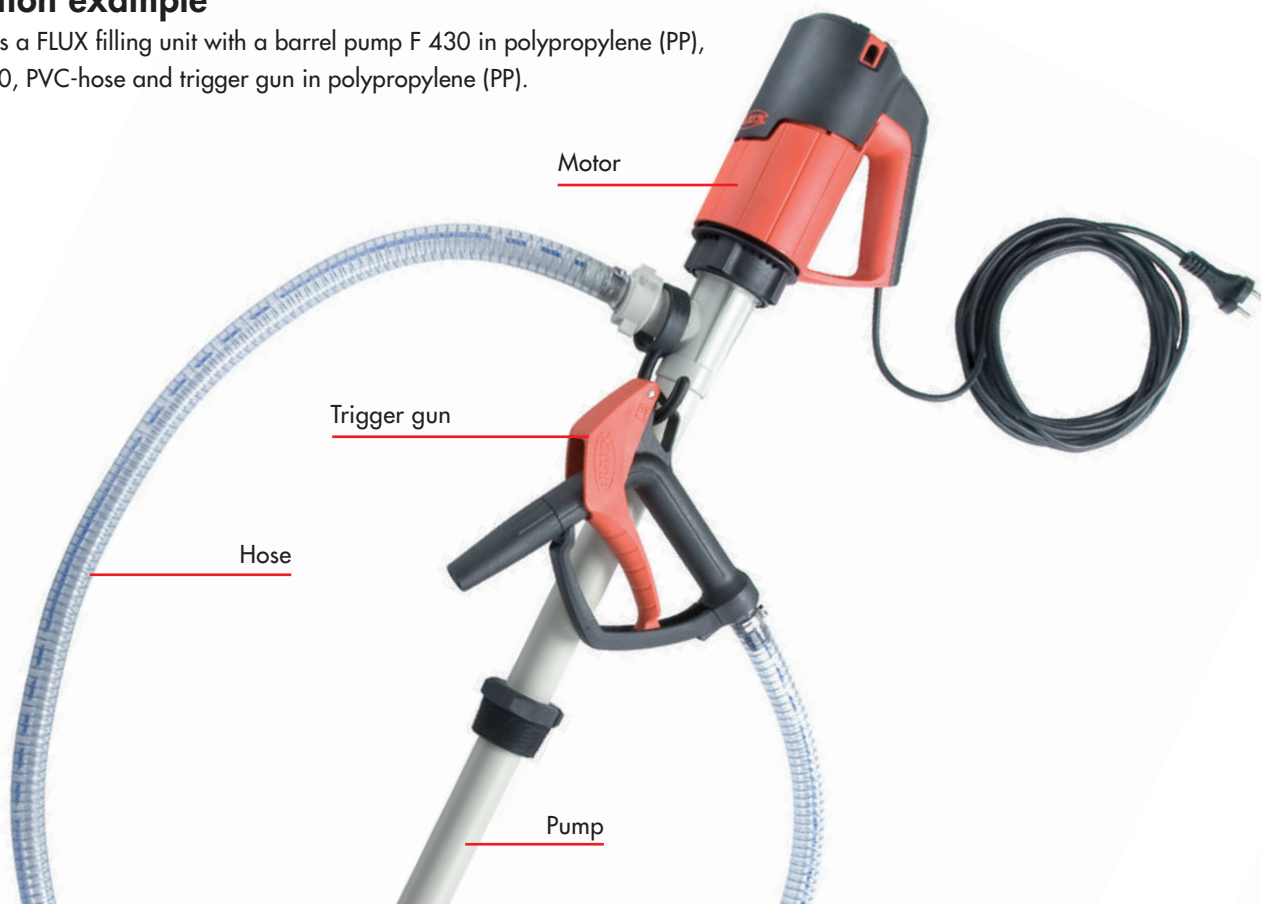
### The optimised valve provides for

- easy handling
- sensitive measuring
- high flow rate
- high operational safety due to optimised seal



## Configuration example

The figure shows a FLUX filling unit with a barrel pump F 430 in polypropylene (PP), motor FEM 4070, PVC-hose and trigger gun in polypropylene (PP).



## Wired construction

For media up to 300 mPas without solids content.

Available in PP, PVDF and Stainless steel (S) for the controlled filling with flowmetering of flammable liquids like acetone, butyl alcohol, ethyl alcohol, methyl alcohol, gasoline, toluene, xylene, etc.

## Special features and benefits

- Presetted quantity fast and easily to dose at the push of a button
- Can also be configured for applications in explosion proof areas
- The competitive alternative to conventional automatic filling machines and stations
- Custom-made to your requirements



**FLUX Filling Unit (FAE):**  
Special FLUX trigger gun without lever with spring valve on the outlet and start-stop-button.



## A Semi-automatic FLUX filling system consists of:

Pump	FLUX drum/barrel pump
Motor	FLUX commutator motors or FLUX brushless motor FBM 4000 Ex
Liquid meter	FMC (Nutating disc type) or FMO (Oval rotor design)
Amplifier	Integrated or external for explosion proof area
Hose	Customised
Filling unit (FAE)	PP, PVDF, Stainless steel
Signal transmission	▶▶ Wired with start-stop button

You will find further accessories like FLUX liquid meters, amplifier, hoses and cable in our brochures FMC/FMO and Accessories.

## Configuration example

The figure shows a FLUX filling system with FLUX filling unit (FAE) in Stainless steel with start-stop-button, FLUX liquid meter FMC 100 Stainless steel with amplifier FSV 100 as well as a stainless steel barrel pump F 424 with motor FBM 4000 Ex and universal-hose. The control cable is fixed onto the hose with spiral tape.



FLUX liquid meter with integrated amplifier (no explosion proof) for presetting of delivery rate.

On request:  
• Versions for hi  
• Drive with air  
• Configurations  
• diaphragm pu

## Remote controlled version

For media up to 300 mPas without solids content.  
Available in PP, PVDF and Stainless steel for the controlled filling with flowmetering of acids and alkalis and non flammable liquids.

**FLUX Filling Unit (FAE):**  
Special FLUX trigger gun without lever with spring valve on the outlet and signal transmission.



## Special features and benefits

- Presetted quantity fast and easily to dose at the push of a button
- Higher flexibility due to abandonment of control wire: thus no mechanical wear
- Assembly and maintenance are reduced
- Industrial solution for a wireless transmission of state of switch (Directive 1999/5/EC)
- The competitive alternative to conventional automatic filling machines and stations
- Custom-made to your requirements

## A Semi-automatic FLUX filling system consists of:

Pump	FLUX drum/barrel pump
Motor	FLUX commutator motors or FLUX brushless motor FBM 4000 Ex
Liquid meter	FMC (Nutating disc type) or FMO (Oval rotor design)
Amplifier	Integrated
Hose	Customised
Filling unit (FAE)	PP, PVDF, Stainless steel
Signal transmission	▶▶ Wireless with remote control

FLUX Remote Control (FRC) for use with the above mentioned filling systems for a remote controlled filling – see back side. You will find further accessories like FLUX liquid meters, amplifier, hoses and cable in our brochures FMC/FMO and Accessories.

## Configuration example

The figure shows a remote controlled FLUX filling system with FLUX filling unit (FAE) in PVDF and remote control (FRC), FLUX liquid meter FMC 100 ETFE with amplifier FSV 100 and integrated receiver as well as a barrel pump F 424 in PVDF with motor F 458 and chemical hose.

High viscosity liquids  
motors  
with air-operated  
pumps



FLUX liquid meter with integrated amplifier and receiver

## FLUX Remote Control (FRC) for the use with the above mentioned FLUX filling units (FAE) for a remote controlled filling



FLUX FRC 100



### FLUX FRC 100 complete kit consisting of:

**Transmitter** in case PP with seal kit, key button with cover in silicone, incl. mounting material to fasten a trigger gun or filling unit with a range of up to 10 m.

### Receiver integrated in amplifier FSV 100

with cable, 5 m long, 230 Volt, 50-60 Hz, IP 54.

In order to guarantee the operating safety transmitter and receiver are addressed on each other.



FLUX FRC 001



### FLUX FRC 001 complete kit consisting of:

**Transmitter** in case PP with seal kit, key button with cover in silicone, incl. mounting material to fasten a trigger gun or filling unit with a range of up to 10 m.

**Receiver FRC 001** with cap rail clip for assembly in switchboard.

In order to guarantee the operating safety transmitter and receiver are addressed on each other.

Type	Description	Order No.
FLUX Remote Control FRC 100	Transmitter and receiver are addressed on each other	001 49 058
FLUX Remote Control FRC 001		001 49 061



### On request:

- Complete solutions incl. switchboard (figure shows a example for installation the receiver FRC 001 installed into a switchboard).
- Also possible for other pump types such as magnetically coupled centrifugal pumps.

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