

ATEX-COMPLIANT  
MOBILE PUMP FOR  
THE PETROCHEMICAL  
INDUSTRY

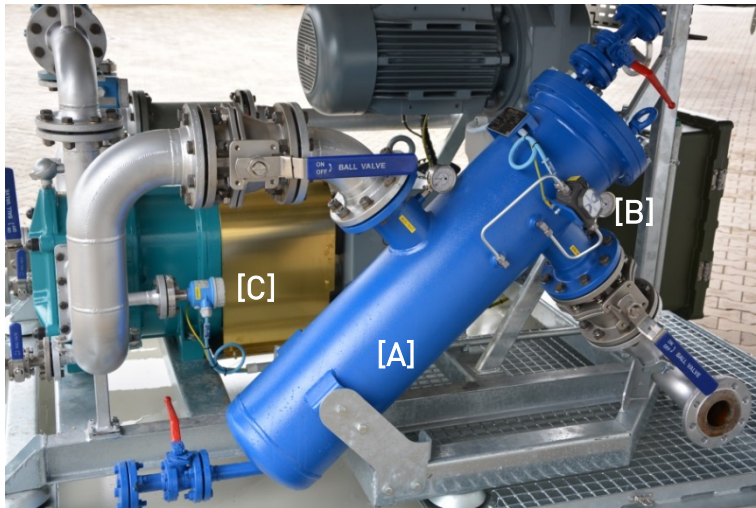




## "Everything from a single source": Börger mobile pumps

This mobile pump was built for a petrochemical company.

The unit was supplied from a single source. Börger GmbH designed and produced the base frame, the pump technology and the control technology themselves. All requirements and needs of the customer were taken into account.



### Differential pressure measurement at the filter

The medium is sucked through a filter [A]. Coarse solid particles are separated here. A differential pressure monitoring system [B] is used to monitor the filter unit.

### Electronic dry run protection

A fill level gauge is used for dry run protection of the pump.

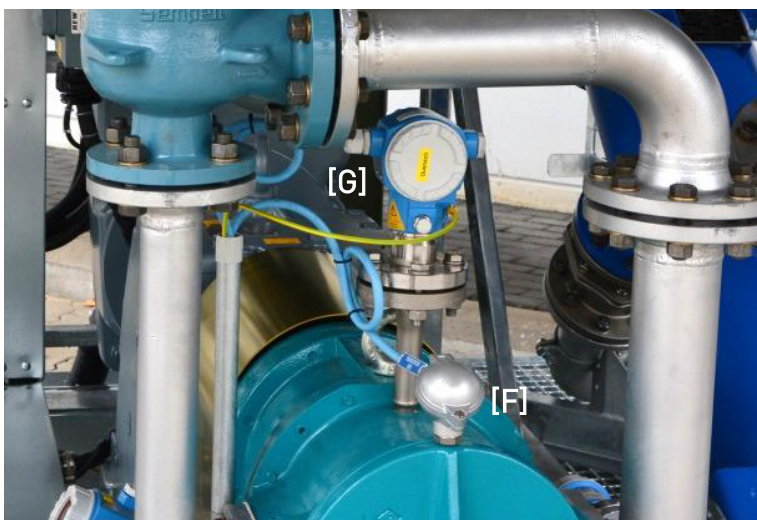


### Mechanical overpressure protection

A bypass [D] with safety valve [E] protects the pump from overpressure.

### The rotary lobe pump

Pump size:	BLUEline FL 518
Ex zone internal:	II2GcbkIIB135°C-X
Ex zone external:	II2GcbkIIB135°C-X
Differential pressure:	Up to 6 bar
Flow rate:	20 - 100 m³/h



### Electronic overtemperature protection

A temperature gauge [F] monitors the temperature in the pump chamber.

### Electronic seal monitoring

A pressure monitoring device in the intermediate chamber [G] indicates any leaks of the mechanical seals immediately. (Compliant with TA Luft (Technical Instructions on Air Quality Control): pump is classified as permanently technically tight.)

## ATEX-compliant and customized: Börger control technology

The pump is used for different pump tasks (e.g. complete emptying of tanks).

In order for the mobile pump to be used in potentially explosive atmospheres, the entire unit is ATEX-compliant.

A **pressure monitoring device at the pressure side** [H] protects the pump from overpressure. If the maximum pressure is exceeded, the pump is switched off automatically.

A **flow meter** [I] measures the flow rate. The flow rate is shown on the control cabinet.

A **level measuring device** [J] checks the fill quantity of the oil drip pan.



### Control technology

- ATEX-compliant
- Several fault messages
- Dry run protection
- Pressure monitoring at the pressure side of the pump
- Overtemperature protection of the pump
- PTC monitoring of the motor
- Overfill protection of the drip pan
- Seal monitoring of the intermediate chamber
- Differential pressure measurement at the filter
- Display of flow rate





[www.boerger.com](http://www.boerger.com)

Börger mobile pumps are built in line with the customers' wishes and requirements.

## Additional features:



Base frame with forklift pockets,  
anti-static tarpaulin



Variable speed gearmotor, 22 kW,  
motor zone 1 II2G Ex de IIC T4



Tarp / roof bow construction with weather protection



All individual groundings are  
set up as a collective grounding (20 m grounding cable)