

Metering pumps

EMP KKS

Motor-driven diaphragm piston pump with self-venting function.
Metering capacities: 0.2 / 0.5 / 0.9 / 1.4 l/h



Description / Order

Please see chapter **Metering Technology / EMP KKS**

EMP II

Motor-driven diaphragm metering pump
Metering capacities: 1.4 / 2.5 / 4.3 / 4.8 / 7.2 / 11.2 / 24 l/h



Description / Order

Please see chapter **Metering Technology / EMP II**

EMP III

Motor-driven diaphragm metering pump
Metering capacities: 16 / 25 / 54 l/h



Description / Order

Please see chapter **Metering Technology / EMP III (a)**

Metering container



Technical data:

Material: LLD-PE nature (low level density PE)
 Level scale: on the container
 Equipment: Supporting for stirring tool or hand mixer
 Aperture for sampling probe and level monitoring
 Screw cap with EPDM seal
 Outlet screw connection R 3/4"

Dimensions:

Volume [L]	Height [mm]	External Ø [mm]	Cap Ø [mm]
40	490	460	220
75	630	460	220
140	660	600	220
200	880	600	220

Description / Order

Please see chapter **Metering Technology / Metering container**

Suction pipes

Suction pipes EMP KKS

Suction pipe Ø 32 with reserve and empty signal report incl. connecting cable 5 m with plug, return connection
 Lengths: 475 / 725 / 975 / 1125 mm



Description / Order
 Please see chapter **Metering Technology / EMP KKS**

Suction pipes EMP II

Suction pipe Ø 16 with reserve and empty signal report incl. connecting cable 5 m with plug,
 Lengths: 540 / 750 / 970 / 1125 mm



Suction pipes EMP II / EMP III

Suction pipe Ø 32 with reserve and empty signal report incl. connecting cable 5 m with plug,
 Lengths: 475, 725, 975, 1125 mm

Description / Order
 Please see chapter **Metering Technology / EMP II/III**

Multifunction valve

This safety-relevant component serves the purpose of protecting the piping system and the metering pump and permits safe and reliable commissioning and maintenance of the system.

The multiple function valve combines all of the following functions: **overflow, pressure maintenance, venting and drainage**



Description / Order

Please see chapter **Metering Technology / EMP II/III**

Degassing Control Degas^{PLUS}

The Degas^{PLUS} is a combination of a degassing valve (EGV) and a connection cable with plug. Directly mountable on the pump metering valve, Degas^{PLUS} in combination with a pump of the EMP II E60 series ensures an automatic degassing when metering an aerogenic medium. It is controlled by the pump software.



Description / Order

Please see chapter **Metering Technology / EMP II**

Pos.	Designation
1	Degassing Valve
2	Connection cable

Oval gear meter

The OGM^{PLUS} is used for volumetric measurement of the rate of flow of pure and cleaned liquids (max. 1000 mPas). The fact that this is a volumetric meter means that surging and discontinuous ("intermittent") flows can also be measured. This meter is therefore also extremely suitable for measurement of the volumetric flow of EMP diaphragm pumps.



Description / Order

Please see chapter **Measuring and Controlling**

Suction and pressure lines



Suction line EMP KKS
PVC-Duo-hose 6/10 mm
(suction and return line EMP-KKS)

See chapter **Metering Technology / EMP KKS**



Metering line EMP KKS
Hose PE 2/4 mm
Hose PE 4/6 mm
Hose PTFE 2/4 mm
Hose PTFE 4/6 mm

See chapter **Metering Technology / EMP KKS**



Suction and pressure lines EMP II
Hose PE 4/6 mm
Hose PE 6/8 mm
Hose PTFE 4/6 mm
Hose PTFE 6/8 mm

See chapter **Metering Technology / EMP II**



PVC- fabric 6/12 mm



Suction and pressure lines EMP III
Hose PE 6/8 mm
Hose PTFE 6/8 mm

See chapt. **Metering Technology / EMP III (a)**



PVC-fabric 6/12 mm

Metering valve



Metering valve EMP KKS / EMP II
Spring-loaded ball valve with Elastomer ring on the outlet (prevents crystallisation, applicable for chloric products)
connection thread G3/8", screw-in thread G1/4" or G1/2"



Metering valve EMP III (a)
Federbelastetes Kugelventil mit Dosierrohr, connection thread G5/8", screw-in thread G1/2"



Spring-loaded ball valve with metering pipe, connection thread G3/8", screw-in thread G1/4" or G1/2"

Description / Order
See chapter **Metering Technology / EMP KKS/II**

Description / Order
See chapter **Metering Technology / EMP III (a)**