

- Available as wall bracket or stand-alone version with drip tray
- Minimum costs for installation and startup
- Optimal adaption to process parameters thanks to modular system
- Wide range of applications



Economic and environmentally responsible use of liquid chemicals demands defined, safe and functional metering. Thanks to a universal modular system the metering consoles provide multiple possibilities to meet the specific metering requirements.

By combining the comprehensive EMP pump range with the corresponding accessories and containers almost any metering task can be realized.

Examples of wall brackets

**2 EMP KKS pumps,
1 metering line**



**2 EMP II pumps,
2 metering lines**



1 EMP III pump



**2 EMP III pumps
1 metering line, OGM**



Examples of stand-alone versions

**2 EMP KKS pumps
2 metering lines**



**2 EMP II pumps
2 metering lines, 2 OGM**



**2 EMP III pumps
2 metering lines**



Technical data:

	EMP KKS				EMP II								EMP III		
Metering capacity [l/h]	0,2	0,5	0,9	1,4	1,4	2,5	4,8	4,3	7,2	7,2	11,2	24	16	25	54
Metering back pressure [bar]	10				10	4	10	6	10	5	2	10			
Metering accuracy:	< +/- 3%														
Suction height [mWs]:	2														
Ambient temperature [°C]:	+ 5 to + 40														
Power supply [V / Hz]:	230 / 50														
Safety type:	IP 65											IP 55			
Weight [kg] wall bracket with 2 pumps:	approx. 10				approx. 10				approx. 12				approx. 21		
Weight [kg] stand bracket with 2 pumps:	approx. 20				approx. 20				approx. 22				approx. 31		

Wall bracket consisting of:

Version with one pump

- 1 wall bracket PP
- Dimensions with EMP KKS/II (h * w * d):
800 x 600 x 304 mm
- Dimensions with EMP III: 800 x 600 x 363 mm
- 1 diaphragm metering pump
- 1 pump bracket
- 1 terminal box
- 2 manual diaphragm non-return valves

Assembly of components, piping and wiring on the unit included

Version with two pumps

- 1 wall bracket PP
- Dimensions with EMP KKS/II (h * w * d):
800 x 600 x 304 mm
- Dimensions with EMP III: 800 x 600 x 363 mm
- 2 diaphragm metering pumps
- 2 pump brackets
- 1 terminal box
- 3 manual diaphragm non-return valves (4 valves on the version with 2 metering lines)

Assembly of components, piping and wiring on the unit included

Stand-alone version consisting of:

Version with one pump

- 1 stand bracket with drip tray PP / VA
- Dimensions: 1750 x 660 x 550 mm (h * w * d)
- 1 Wall bracket PP (mounted on stand bracket)
- Dimensions with EMP KKS/II (h * w * d):
800 x 600 x 304 mm
- Dimensions with EMP III: 800 x 600 x 363 mm
- 1 diaphragm metering pump
- 1 pump bracket
- 1 terminal box
- 2 manual diaphragm non-return valves

Assembly of components, piping and wiring on the unit included

Version with two pumps

- 1 stand bracket with drip tray PP / VA
- Dimensions: 1750 x 660 x 550 mm (h * w * d)
- 1 Wall bracket PP (mounted on stand bracket)
- Dimensions with EMP KKS/II (h * w * d):
800 x 600 x 304 mm
- Dimensions with EMP III: 800 x 600 x 363 mm
- 2 diaphragm metering pumps
- 2 pump brackets
- 1 terminal box
- 3 manual diaphragm non-return valves (4 valves on the version with 2 metering lines)

Assembly of components, piping and wiring on the unit included

Available as an option:

- Container PE (40, 75, 140, 200 l/h) and accessories (e.g. sump, stirring tool,...)
- Suction pipe with level control (evaluation in the pump)
- Multifunction valve (overflow, pressure maintenance, venting and drainage)
- Degassing valve (only for EMP II)
- Oval gear meter for volumetric measurement of the rate of flow (evaluation in the pump)
- Metering hose
- Metering valve
- Drip tray PP für wall bracket

See also chapter EMP KKS, EMP II, EMP III, metering container of “Metering Technology“ or chapter oval gear meter of “Measuring and Controlling”.

Hydraulic connections:

	EMP KKS	EMP II	EMP III
Pump (inlet):	6/8, 6/10, 6/12 mm	4/6, 6/8, 6/12 mm	6/12, 10/16 mm
Pump (outlet):	2/4 bzw. 4/6 mm	4/6, 6/8, 6/12 mm	6/12, 10/16 mm
Hand valve outlet:	6/8 mm	6/8 mm	6/12 mm
Multifunction valve:	4/6, 6/8, 6/12 mm	4/6, 6/8, 6/12 mm	6/12, 10/16 mm

Material:

Console with EMP KKS / EMP II		Console with EMP III	
Console:	PP	Console:	PP
Support frame for stand-alone console:	1.4301	Support frame for stand-alone console:	1.4301
Pump:		Pump:	
Pump head / suction and pressure valves:	PVDF	Pump head / suction and pressure valves:	PP or PVDF*
Diaphragm:	PTFE coated	Diaphragm:	PTFE coated
Seals:	FPM or EPDM*	Seals:	FPM or EPDM*
Valve balls:	Ceramics	Valve balls:	Ceramics
Diaphragm valves:	PVC / PTFE	Diaphragm valves:	PVC / PTFE
Container:	PE	Container:	PE
Suction pipe:	PVC	Suction pipe:	PVC
Multifunction valve:	PVDF	Multifunction valve:	PP or PVDF*
Degassing valve:	PVDF	--	--
Oval gear meter OGM^{PLUS}:	PVC / PVDF	Oval gear meter OGM^{PLUS}:	PVC / PEEK
Hose:	PE or PTFE*	Hose:	PVC
Metering valves:	PVC / PVDF	Metering valves:	PP or PVDF*

* The material compatibilities on the product data sheet are to be observed.

Ordering key:

1. Description

DOK = metering console

2. Version

WK = wall bracket
SK = stand-alone

3. Electrical metering pump version

E00 = E00 (only for EMP III)
E10 = E10
E60 = E60

4. Pump capacity 50 Hz [60 Hz] pump type

	50 Hz	[60 Hz]	pump type
00002	= 0.2 l/h	[0.24 l/h]	EMP KKS
00005	= 0.5 l/h	[0.6 l/h]	EMP KKS
00009	= 0.9 l/h	[1.1 l/h]	EMP KKS
00014	= 1.4 l/h	[1.7 l/h]	EMP KKS
V3014	= 1.4 l/h	[1.7 l/h]	EMP II
V3025	= 2.5 l/h	[3.0 l/h]	EMP II
00043	= 4.3 l/h	[5.2 l/h]	EMP II
00048	= 4.8 l/h	[5.8 l/h]	EMP II
00072	= 7.2 l/h	[8.6 l/h]	EMP II
00112	= 11.2 l/h	[13 l/h]	EMP II
00240	= 11.2 l/h	[29 l/h]	EMP II
00160	= 16 l/h	[19 l/h]	EMP III
00250	= 25 l/h	[30 l/h]	EMP III
00540	= 54 l/h	[64 l/h]	EMP III

5. Pump head / suction and pressure valve material

PP = PP
PV = PVDF

6. Seal material

EP = EPDM
FP = Viton B

7. Number of pumps

1P1 = 1 pump, 1 metering line
2P1 = 2 pumps redundant on 1 metering line
2P2 = 2 pumps, 2 metering lines

8. Accessories

MFV = multifunction valve (not for EMP KKS)
EGV = degassing valve (for EMP II)
99 = without

9. Flow measurement

OGM = oval gear meter (OGM Plus)
99 = without

10. Console version

EC = Ecolab
99 = neutral

DOK WK E60 V3025 PV FP 2P1 MFV OGM EC

Other versions on request.

Example of a configured metering console.